

FOR OVER 100 YEARS THE NUMBER 1 IN THE WORLD



THE SPECIALIST FOR NON-DESTRUCTIVE REMOVING

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PREFACE

Dear business partners,

We are proud to present to you this manual, which for the first time offers a compendium of our collected knowledge on extraction. We have compiled the application areas, usage instructions, benefits, and the most important product features for over 1,000 original products. Additionally, the overarching functions for all product groups of the four extraction principles: External, Internal, Separation, and Disassembly, as well as all other activities, are explained.

The accumulated know-how from over 100 years of successful entrepreneurship is unique in its breadth of knowledge. As the inventor of the puller tool and a global solution developer, we are committed to progress and are taking a step ahead, especially in challenging times. Embedded in the K+K Swiss group headquartered in Ranzo, Switzerland, the flagship brand KUKKO benefits from the legal, financial, and economic stability of the Swiss company. This allows the procurement and logistics chains to be ensured quickly and efficiently through our three logistics centers in Europe, Asia, and the USA. At the same time, this global corporate structure provides the best conditions to engage with our worldwide customers locally and serve them with a tailored product offering.

We thank you for your trust in our premium tools and look forward to any suggestions to further develop our products and services.

Sincerely,

Michael Kleinbongartz CEO K+K Swiss AG

M. Klein bon garts

Owner KUKKO oHG

Max Alfred Kleinbongartz Managing Director K+K Swiss AG Partner KUKKO oHG

Dax Ohm





Worldwide largest assortment diversity

As a specialist in pullers, KUKKO has made it its mission to develop the right tool for every pulling situation.

Since no pulling process is the same as another, the KUKKO range includes the most diverse pullers in various designs and sizes. Thanks to this diverse product selection, any component can be disassembled or assembled. Whether external extraction, internal extraction, separation, or disassembly – KUKKO finds the perfect solution for any challenge. And if the right puller is not immediately available for a specific requirement, it can be assembled in the form of an upgrade with just a few manual steps.

The modular system has been continuously developed throughout the entire company history and thus represents a special unique selling point.

Thanks to limitless mix & match, 150 types of pullers can be combined in 500 variants. The core is always the spindle, which gives the puller its power. Various jaw types and their extensions, 2-jaw and 3-jaw crossbars, and reversible spindle tips make the composition of the puller perfect.

The user is thus presented with nearly endless possibilities to solve their individual application case with a special or universal puller.





Perfection in Form and Function

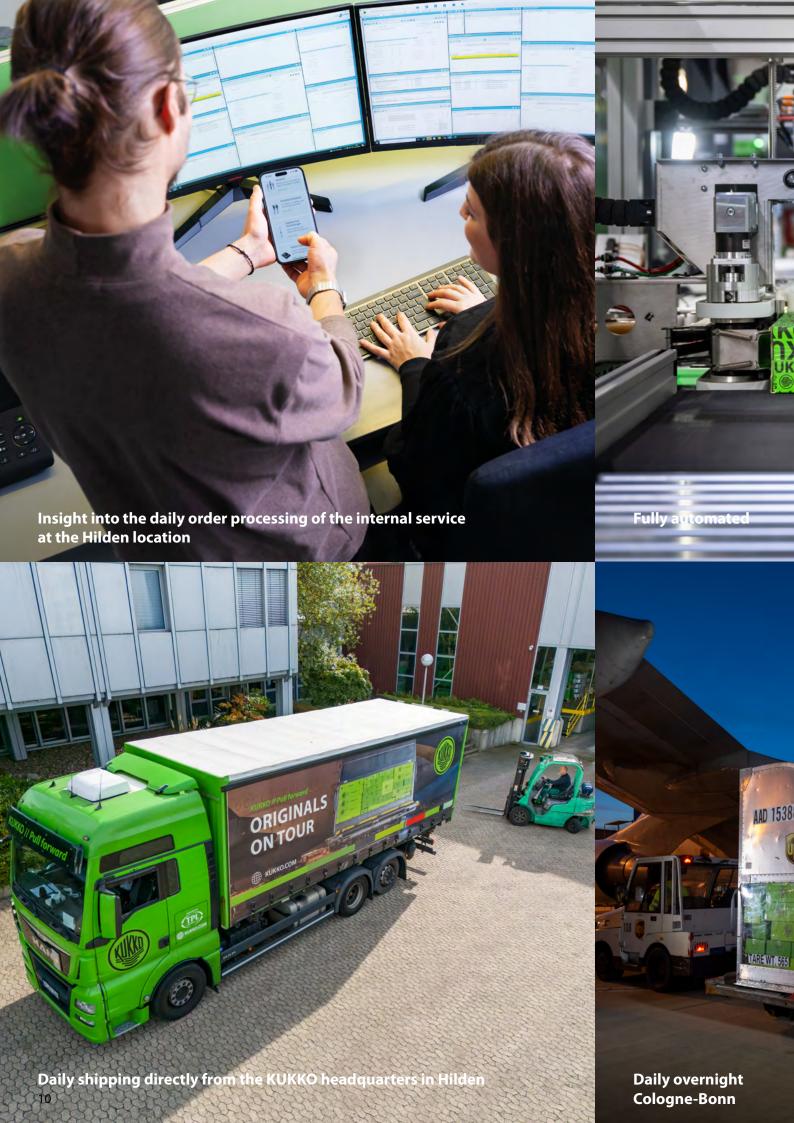
The entire tool range from KUKKO is characterized by a unique product design. From the high-quality material selection to the processing and the color choice of the KUKKO company logo, each individual product embodies the brand's typical pioneering spirit and a lot of love for detail. For over a century, even laypeople can recognize KUKKO originals at first glance. Green is the corporate color and makes all KUKKO products shine uniquely.

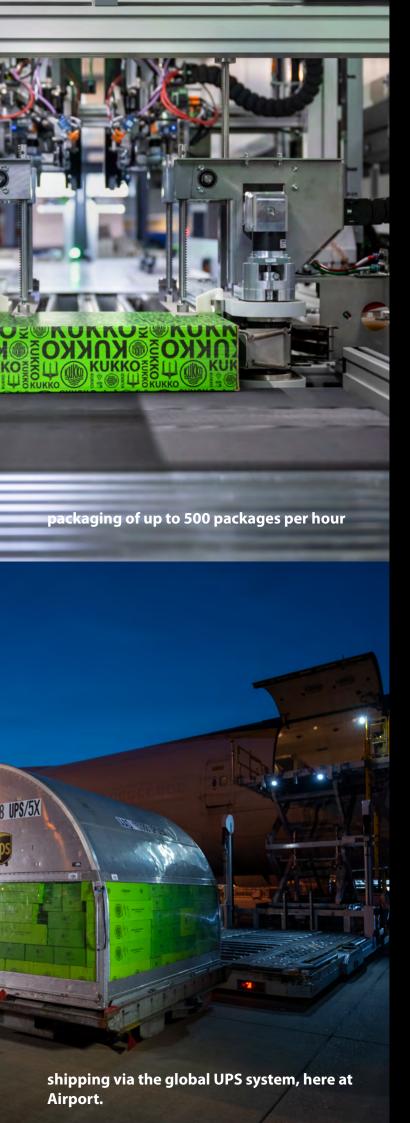
Outstanding Originals

All KUKKO originals have been DIN EN ISO 9001 certified since 1995. This certification applies to the areas of development, manufacturing, and distribution of pullers and special tools, as well as the distribution of specialty tools. Additionally, all products are labeled with their own type plate. This labeling is a reflection of KUKKO's high sustainability promise and guarantees decades of durability. At the same time, customers can be 100% sure that they have purchased a quality product from KUKKO with this safety promise. Any form of counterfeiting or product piracy is excluded. Furthermore, registration with KUKKO can be done via the serial number to secure a lifetime support guarantee. The individual component number guarantees a quick and smooth processing of reorders or complaints.

Ergonomics at the Highest Level

The quality tools from KUKKO also convince in terms of haptics. First-class processing and the guarantee of the highest safety standards minimize the risk of injury. The products fit ergonomically well in the hand and are characterized by outstanding user-friendliness. The label includes the following information: item number, serial number, QR code, name and address of the manufacturer, product dimensions, and the most important Technical attributes.





Logistics

KUKKO takes procurement and delivery logistics to the next level

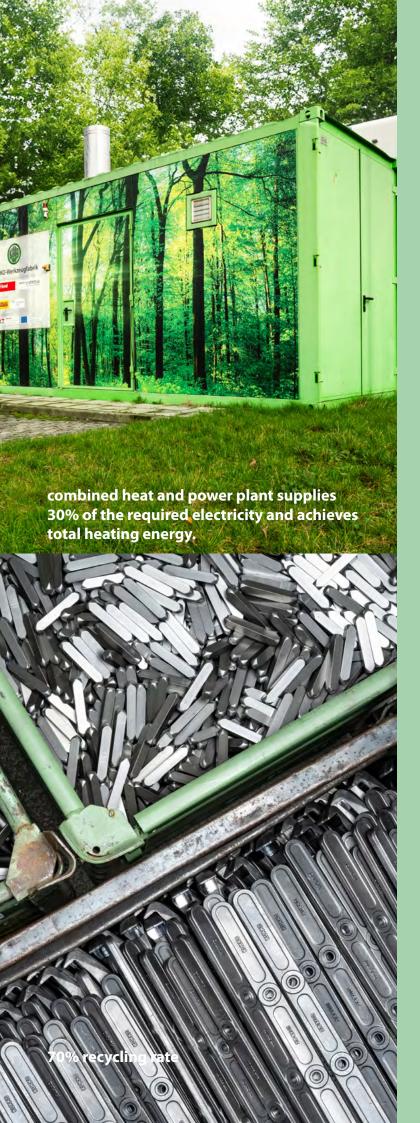
Our logistical connection to three own hubs in America, Asia, and Europe ensures complete procurement and distribution security.

The latest achievement in optimizing the entire material, procurement, and logistics flow is a fully automated packing machine. The overall control from the production side is centrally managed through the ERP system. The interface between the packing machine and ERP is organized via a socket server. Through this setup, all data (shipping, picking, hazard warnings, dimensions) is processed in real time and reported to external logistics partners and customs.

This consolidates all relevant data and information (image of the package's contents, commercial invoice, export documents) from the machine to the shipping partners. At the same time, all data is also communicated to customers and trading partners.

By significantly minimizing throughput times and error sources, the entire procurement and logistics process, including material flow, is reduced by 30% in cost and time.





100,000 diligent bees testify to the grounds of the KUKKO factory and an attested SAQ.

The multifunctional application possibilities combined with an extraordinary range of spare parts and accessories make KUKKO pullers indispensable tools for every user.

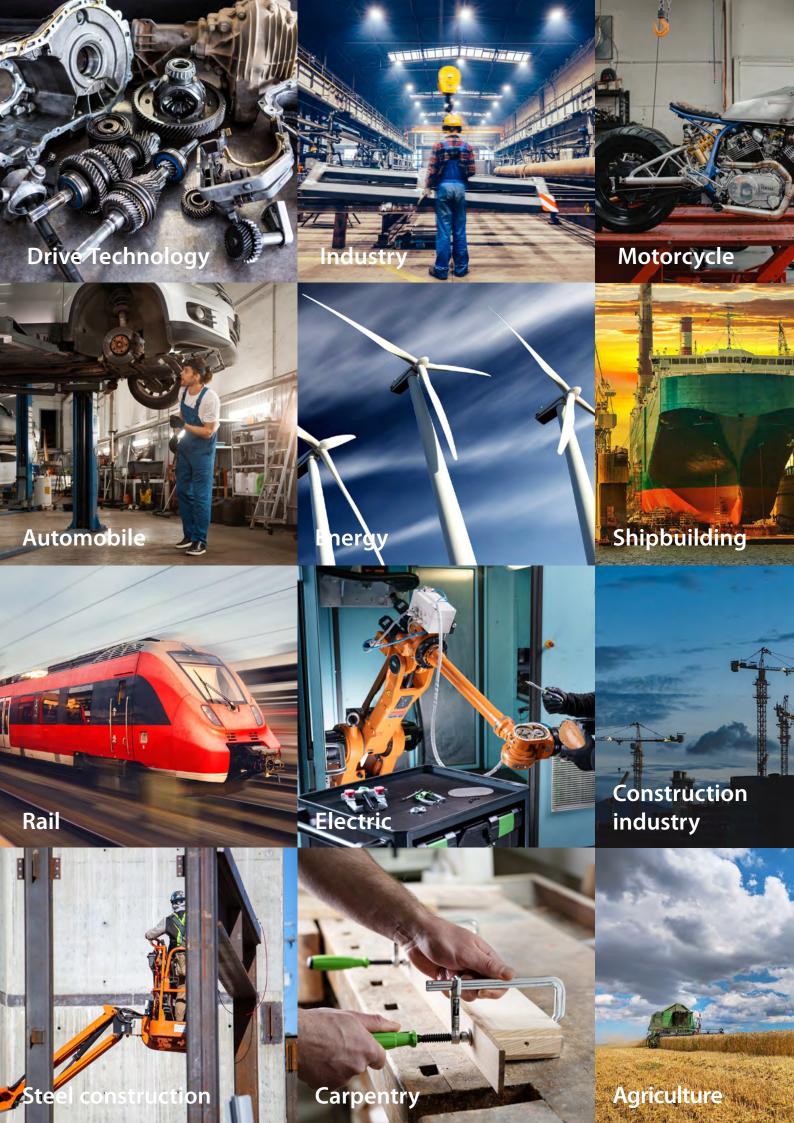
By choosing an original product from KUKKO, not only are current application cases covered, but the pullers have also been handed down to the next generation.

This form of sustainability, practiced for a century, explains why you still find pullers in workshops that have been in use for over 50 years. It's no won der that the motto in the industry is "Once KUKKO, always KUKKO."

The sustainable value creation begins with the careful selection of raw materials. Resource-saving use of materials and products, as well as reducing energy consumption, are other important aspects.

A particular gain in ecological economics is the custom packaging cartons per shipment. This prevents oversizes and reduces shipping costs. Thanks to the complete avoidance of plastic and the exclusive use of 100% recycled filling material KUKKO reduces its CO2 footprint by over five tons annually.

Another marker of consistent due diligence is demonstrated by the leading member organization of the automotive industry – AIAG – through the SUPPLIER ASSURANCE. KUKKO meets the globally recognized sustainability standard of the automotive industry in areas such as human rights, working conditions, occupational safety, corporate ethics, environmental, and supplier management with SAQ 5.0.





BRANCHES

KUKKO offers solutions for all industries. Both global challenges and local requirements are addressed. The pullers from KUKKO are used in countless productions and workshops, ensuring that everything remains in motion. The range extends from large hydraulic solutions for the repair of industrial machines to precision tools for intricate tasks, such as in watchmaking.

















From top left to bottom right: Waldemar Just, Vanessa Annunziata, Timo Langenberg, Greg Genevro, Jan Bartos, Yongchao Gu, Ole Schmidt, Hans-Peter Broekhuis





Omnipresence at KUKKO

Always up-to-date, transparent and personal!

We at KUKKO are always here for you. With our local branches in America, Europe, and Asia, you have local contacts available worldwide.

Regardless of office hours, we offer you various digital services. Through customer-specific shares, you receive our current **price lists and product availabilities:**



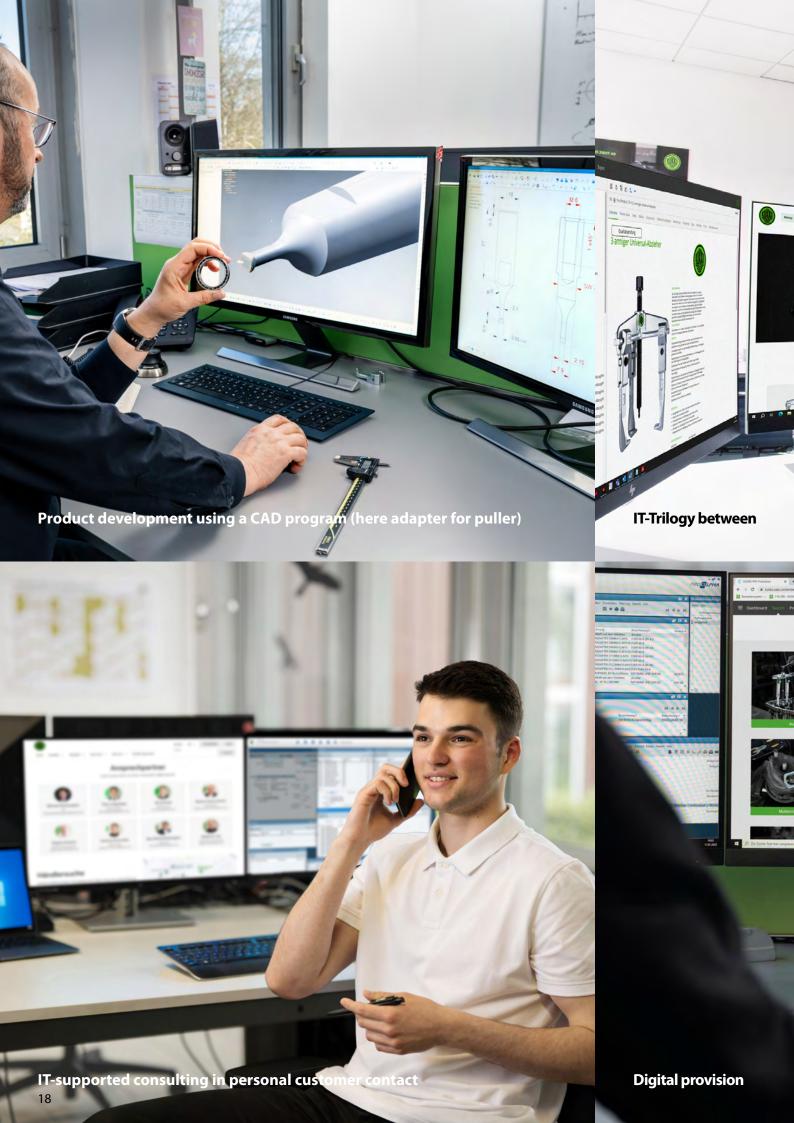
Furthermore, we provide a detailed product data sheet for each of our over 3,000 items. These data sheets contain all product information, including technical features, technical drawings, and photos.

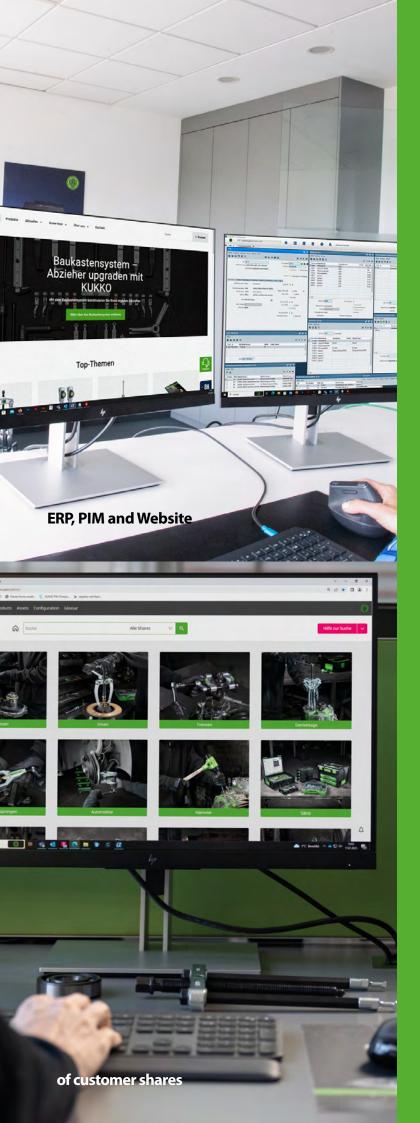
Our **complete catalog** with all products can be accessed via the following QR code:



To stay up-to-date with all product news, promotions, or events, subscribe to our **newsletter** here:







Digital Support

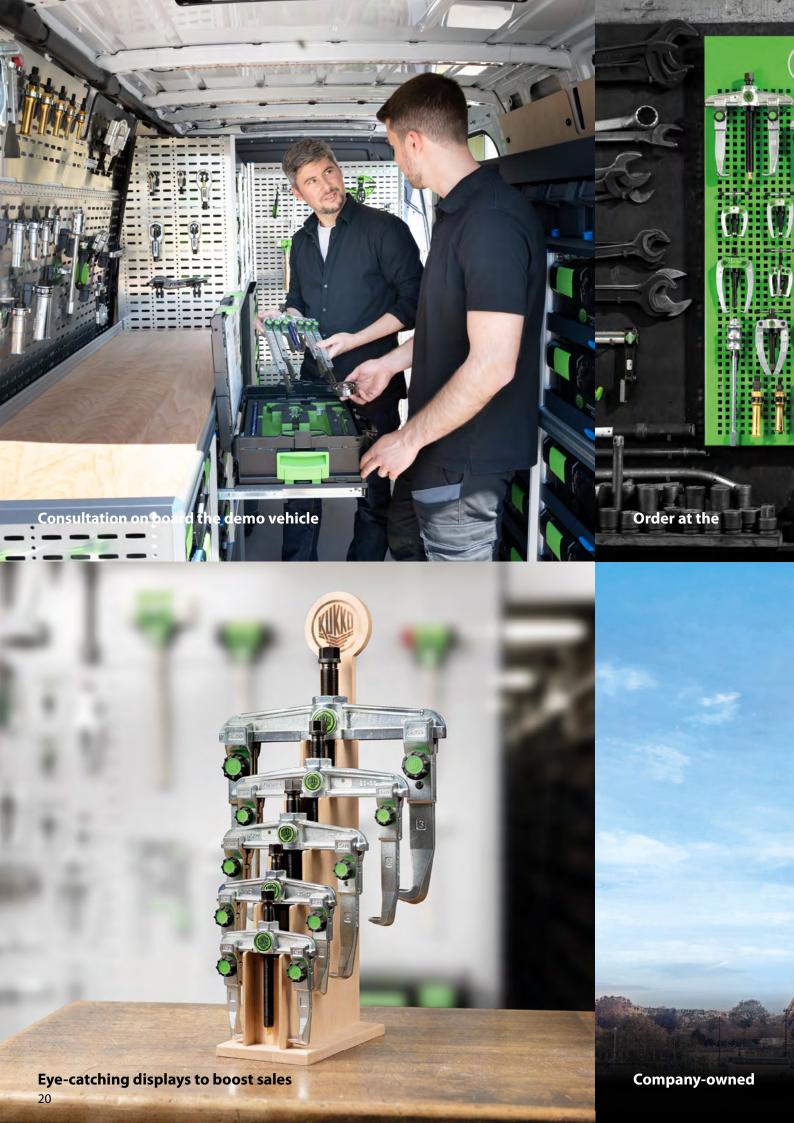
A consistent focus on digital process control ensures long-term corporate success

With all the passion for the production of analog pullers, KUKKO lives with a digital spirit and relies on a multimedia-oriented communication strategy. This intertwines the internal IT and its systems with the outward-visible media. The central control system is always the Enterprise Resource Planning (ERP) system. Directly connected to it is the Product Information Management (PIM) database with over 3,000 items. Both platforms feed all communicative media and touchpoints such as websites, newsletters, print media, and configurators, ensuring a continuous update of all product features.

This synchronization provides optimal support to sales in the sales process. Additionally, the centralized master data management facilitates operational handling in over 100 countries worldwide in customer support.

If you would like to benefit from our digital support, please contact the global contacts directly:







KUKKO Live

There is no Business like Showbusiness

Driven by the spirit of the solution developer, KUKKO focuses on a user-oriented and practically tested presentation of the products.

With a fully equipped showroom in the Hildener headquarters, a spacious area is provided for the transfer of know-how, application consulting, and sales management. Both 3-D animations and demo tables serve to train existing and new trading partners and customers. Individual as well as sequential training sessions can be booked.

For mobile use at the customer's site, a company fleet of fully equipped demo vehicles is available. The mobile consultants on four wheels operate worldwide and ensure comprehensive insight into KUKKO's diverse product portfolio, regardless of spatial restrictions. Thus, customers and trading partners benefit from the exclusive know-how of the inventor of pullers, even in the smallest space.

To shine directly at the point of sale, KUKKO offers a variety of supporting POS media. These range from the smallest demo applications, through preordered or individually customizable displays and sample cases, to demo vehicles and complete sales walls. Thus, a suitable sales presentation is ensured for every individual situation at the POS. And should the modularity of the POS program not meet customer-specific requests, KUKKO always finds a solution.

Any questions regarding POS activities will be gladly answered by our global contacts:







The combination of spindle and thread guarantees a particularly precise pulling off, with the manual operation of the spindle providing a tactile control of the pulling process.

BENEFIT:

All KUKKO spindles are made from a single piece of steel. Another special feature is the dual spindle tip - round or pointed - for processing different surfaces.



Mechanical tension force up to



The fat-hydraulic spindles are suitable for pulling particularly tight bearings, gears, and discs with a pulling force of up to 20 t. Thanks to the integrated grease hydraulics, no external pump is required.

BENEFIT:

Hydraulic spindles guarantee easy and controlled pulling of particularly tight parts with minimal effort.



Medium tension force up to



Series YRH



Hydraulic hollow piston cylinders are used with the KUKKO hydraulic program. When used as pressure or tension cylinders, they enable force-saving, versatile work even in difficult pulling situations.

BENEFIT:

The infinitely adjustable force guarantees controlled and safe work while utilizing the full performance potential.



Particularly high tensile & compressive force up to 75

THE KUKKO NUMBERING SYSTEM

The 2-jaw and 3-jaw universal pullers with sliding, always parallel jaws of the series 20 and 30 can be combined with various types of jaws – in different lengths. For the clear assignment of pullers to the corresponding jaws, KUKKO has introduced a user-friendly and self-explanatory numbering system.

Which jaws fit on which puller?

On all pullers of size -1 and -10 the jaws that start with 1- fit

On all pullers of sizes -2 and -20 the jaws, which start with 2- fit

To all pullers of size -3 and -30 the jaws that start with 3- fit

For all pullers of sizes -4 and -40 the pullers with 3- at the beginning also fit the jaws

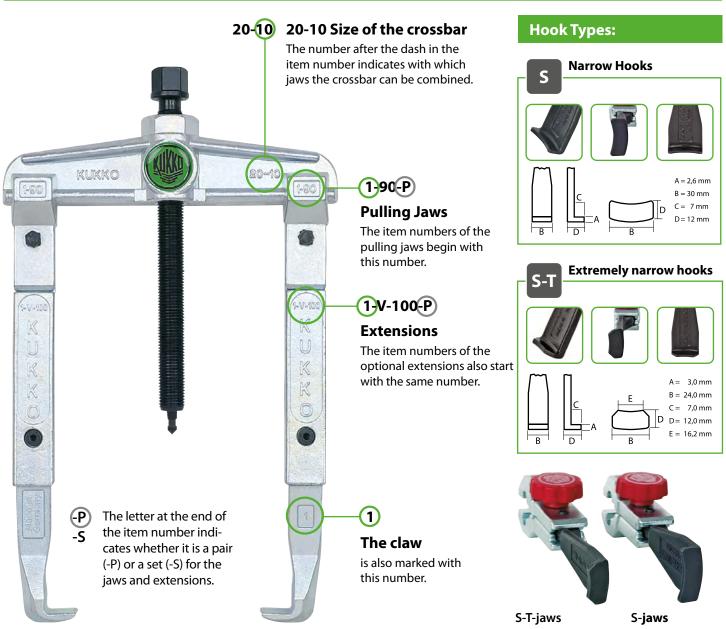
Example:

20-2 has the jaws 2-150-P

also fit: 2-151-P; 2-152-P; 2-153-P

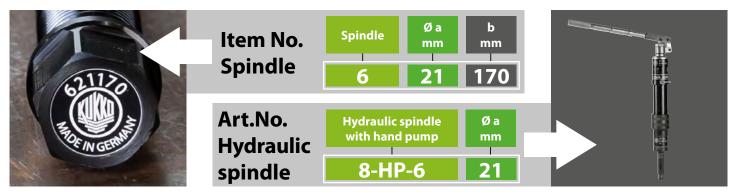
also fit long jaws like: 2-300-P; 2-301-P; 2-302-P; 2-303-P

EXPLANATION OF THE NUMBERING SYSTEM



COMPATIBILITY SPINDLE AND HYDRAULIC SERIES 8-HP

The hydraulic spindles of series 8-HP carry the diameter of the thread with the last two digits of the item number, thus establishing the reference to the mechanical spindle.



COMPATIBILITY SPINDLE AND HYDRAULIC SERIES 8-0

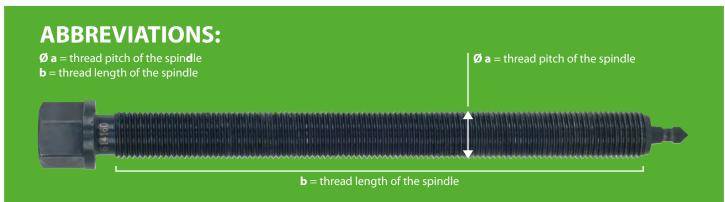
The hydraulic spindles of series 8-0 carry the diameter of the thread with the last two digits of the item number, thus providing a reference to the mechanical spindle.



COMPATIBILITY SPINDLE AND POWERNUT

All mechanical spindles and Power Nuts are equipped with a speaking item number. Both item numbers include the diameter of the thread and thus allow for a quick assignment of the matching Power Nut to the respective spindle.











PULLING

Since 1919, KUKKO has specialized in the development, manufacturing, and optimization of pullers, which continue to be the core business today.

With 150 types of pullers and 500 sizes available, the pioneer of pulling presents a unique assortment variety.

The activities of pulling include:

- External extraction
- Internal extraction
- Bearing separator
- Disassembly







EXTERNAL EXTRACTION

During external extraction, the part to be removed, which is located on a shaft and is freely accessible from the outside, is grasped with the jaws from the outside. By tightening the spindle, the component is fixed. Subsequently, the hexagon at the spindle head is activated with an actuation tool until the component is released.



SERIES 20 | 30 | 11

UNIVERSALPULLER

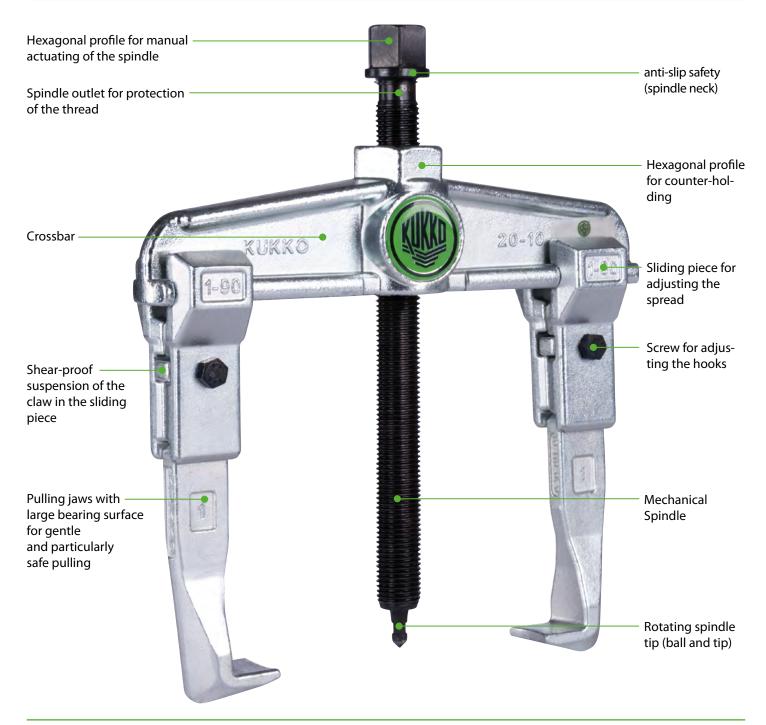


As a specialist in external extraction, KUKKO is the number 1 worldwide in terms of non-destructive disassembly. Since no extraction process is the same as another, choosing the right puller is a crucial factor. KUKKO offers the perfect solution for every specific pulling situation. The 2-jaw and 3-jaw universal pullers are used for extracting bearings, gears, and discs in all common sizes for crafts, workshops, and industry. This allows for the release of any component that sits on a shaft and is freely accessible from the outside.

Benefits

- · Application also for eccentric components using freely movable puller jaws sliding on the crossbar.
- Optional convertible from an external puller to an internal extractor by reversing the jaws.
- Variable adjustment for different spans (depending on the model)
- Safe mounting of the spindle through a rotatable spindle tip on both smooth surfaces and during centering (Switch Technology)
- 3-jaw provides an even force distribution and allows for greater extraction forces (series 11 & 30)

ASSEMBLY OF A UNIVERSAL PULLER



SERIES 20

2-jaw universal puller



The 2-jaw universal pullers of series 20 can be used universally even in confined spaces.

SERIES 30

3-jaw universal puller



Thanks to the 3-jaw design, the pullers of series 30 provide an even distribution of force, enabling even greater pulling forces.

30-10

SERIES 11

Extra powerful, 3-jaw universal puller with adjustable reach

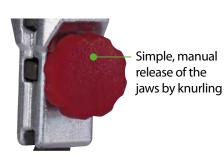


11-1-AV

The extra strong universal pullers of series 11 guarantee due to their massive construction the pulling of particularly heavy components.

VARIANTS OF THE SERIES

Series 20+ / 30+



Series 20x/30x



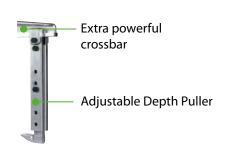
Optimized form of the quick adjustment with ideal haptics

Series 20+S / 30+S & 20-S / 30-S / 20+S-T / 30+S+T & 20-S-T / 30-S-T



Narrow (Fig.) and extremely narrow hooks for tight and hard-to-reach gaps

Series 20-AV / 20-5/11



Series 20-Classic-B / 20+B / 30-Classic-B and 30+B



The hydraulic spindle achieves an average tensile force of up to 20 t.

Series 20-AV / 20-5/11



Hydraulic Spindle 8-HP with hand pump for up to 12 t tension force The K-2030 series puller sets are equipped with universally applicable 2-jaw and 3-jaw pullers. Thanks to the diverse combination possibilities with hooks, crossbars, and extensions, the sets are used across various industries. Due to their exceptional quality, ergonomics, functionality, and user comfort, the K-2030 series has been awarded the Plus X Award as the Product of the Year 2022.









K-2030-1+A

THE MODULAR SYSTEM

The modular building block system is KUKKO's unique selling point. Thanks to limitless Mix&Match, 150 types of pullers can be combined in 500 variations. The centerpiece is always the spindle, which gives the puller its power. Various types of jaws and their extensions, 2-jaw and 3-jaw crossbars, and reversible spindle tips make the composition of the puller perfect. This offers users nearly endless possibilities to master their individual application case.



APPLICATION EXAMPLES



Removing a gear wheel with the 20-10



Removing a gear from a shaft with the 30-10+



The 30-10+S-C with extended, narrow jaws when removing a ball bearing

SERIES 20-CLASSIC 2-JAW UNIVERSAL PULLER



Technical attributes

The 2-jaw universal puller is used for extracting bearings, gears, and discs in all common sizes for crafts, workshops, and industry. It can loosen any component that sits on a shaft and is freely accessible from the outside. Equipped with robust and adjustable standard jaws, the puller all-rounder ensures particularly safe, non-destructive disassembly when performing external extraction as well as internal extraction.

Benefits

- Screw connection enables easy loosening and particularly tight fastening of the jaws with an allen key
- Application also for eccentric components through freely movable, sliding jaws on the crossbar.
- Hexagonal profile on the crossbar for secure counter-holding

#	4021176				SW ⊷	(2)	Max. tensile force	Max. tractive force		Included in the set
	EAN	mm/inch	mm/inch	mm/inch	mm/inch	Nm/ft lb	kN	t/US t. sh.	kg/lb	
20-1	-009433	0 - 90 0 - 3 5/8	100 4	100 - 120 3 15/16 - 4 3/4	17 11/16	80 59.01	45	4.5 4.96	1,35 2,977	24-A, 24-B, 20-ST, 24-C
20-10	-009921	0 - 130 0 - 5	100 4	95 - 160 3 3/4 - 6 5/16	17 11/16	80 59.01	45	4.5 4.96	1,42 3,131	K-2030-10, 20-ST
20-2	-009501	0 - 160 0 - 6	162 6	100 - 220 3 15/16 - 8 11/16	22 7/8	150 110.64	60	6 6.61	3,1 6,836	24-B, 20-ST, 24-C
20-20	-010088	0 - 200 0 - 8	162 6	100 - 260 3 15/16 - 10 1/4	22 7/8	150 110.64	60	6 6.61	3,22 7,100	K-2030-20, K-2030-20-B, 20-ST
20-3	-009686	0 - 250 0 - 10	210 8	180 - 340 7 1/16 - 13 3/8	27 1 1/16	300 221.28	85	8.5 9.37	7,185 15,843	20-ST
20-30	-010163	0 - 350 0 - 14	200	180 - 440 7 1/16 - 17 5/16	27 1 1/16	300 221.28	85	8.5 9.37	7,525 16,593	-
20-4	-009761	15 - 520 9/16 - 21	209 8	200 - 590 7 7/8 - 23 1/4	36 1 7/16	400 295.04	120	12 13.23	14 30,870	-
20-40	-411861	15 - 650 9/16 - 26	300 12	200 - 710 7 7/8 - 27 15/16	36 1 7/16	400 295.04	120	12 13.23	16,36 36,074	-
20-1-2	-466311	0 - 90 0 - 3 5/8	200	70 - 140 2 3/4 - 5 1/2	17 17 11/16	80 59.01	45	4.5 4.96	1,985 4,377	-
20-1-25	-914362	0 - 90 0 - 3 5/8	250 10	70 - 140 2 3/4 - 5 1/2	17 17 11/16	80 59.01	45	4.5 4.96	8,5 18,743	-
20-1-4	-989643	0 - 90 0 - 3 5/8	400 16.	70 - 140 2 3/4 - 5 1/2	17 17 11/16	80 59.01	45	4.5 4.96	3,13 6,902	-
20-10-2	-466496	0 - 120 0 - 5	200	70 - 180 2 3/4 - 7 1/16	17 11/16	80 59.01	45	4.5 4.96	2,13 4,697	K-2030-10
20-10-25	-908682	0 - 120 0 - 5	250 10	70 - 180 2 3/4 - 7 1/16	17 11/16	80 59.01	45	4.5 4.96	2,45 5,402	K-2030-10
20-10-4	-989650	0 - 120 0 - 5	400 16	70 - 180 2 3/4 - 7 1/16	17 11/16	80 59.01	45	4.5 4.96	3,435 7,574	-
20-2-3	-466564	3,2 - 160 1/8 - 6	300 12	100 - 220 3 15/16 - 8 11/16	22 7/8	11 8.11	70	7 7.72	4,38 9,658	-
20-20-3	-466649	3,2 - 200 1/8 - 8	300 12	100 - 260 3 15/16 - 10 1/4	22 7/8	11 8.11	70	7 7.72	4,655 10,264	K-2030-20, K-2030-20-B
20-3-25	-901188	0 - 250 0 - 10	250 10	80 - 340 3 1/8 - 13 3/8	27 1 1/16	300 221.28	85	8.5 9.37	7,52 16,582	-
20-3-3	-466724	0 - 250 0 - 10	300 12	180 - 340 7 1/16 - 13 3/8	27 1 1/16	15 11.06	100	10 11.02	8,1 17,861	-
20-3-4	-467066	0 - 250 0 - 10	400 16	180 - 340 7 1/16 - 13 3/8	27 1 1/16	15 11.06	100	10 11.02	9,75 21,499	-
20-3-5	-467301	0 - 250 0 - 10	500 20	180 - 340 7 1/16 - 13 3/8	27 1 1/16	15 11.06	100	10 11.02	10,57 23,307	-
20-30-3	-466809	0 - 350 0 - 14	300 12	180 - 440 7 1/16 - 17 5/16	27 1 1/16	15 11.06	100	10 11.02	5,52 12,172	-
20-30-4	-467141	0 - 350 0 - 14	400 16	180 - 440 7 1/16 - 17 5/16	27 1 1/16	15 11.06	100	10 11.02	9,62 21,212	-
20-30-5	-467486	0 - 350 0 - 14	500 20	180 - 440 7 1/16 - 17 5/16	27 1 1/16	15 11.06	100	10 11.02	10,875 23,979	-
20-4-3	-466984	15 - 520 9/16 - 21	300 12	200 - 590 7 7/8 - 23 1/4	36 1 7/16	45 33.19	150	15 16.53	15,28 33,692	-
20-4-4	-467226	15 - 520	400	200 - 590	36	45	150	15	16,79	-
20-4-5	-467554	9/16 - 21 15 - 520	16 500	7 7/8 - 23 1/4 200 - 590	1 7/16 36	33.19 45	150	16.53 15	37,022 16,6	-
20-40-4	-730641	9/16 - 21 15 - 650	400	7 7/8 - 23 1/4 200 - 710	1 7/16 36	33.19 45	150	16.53 15	36,603 17,67	-
20-40-5	-731976	9/16 - 26 15 - 650	16 500	7 7/8 - 27 15/16 200 - 710	1 7/16 36	33.19 45	150	16.53 15	38,962 15,8	-
	-009846	9/16 - 26 0 - 750	19 4/8 400	7 7/8 - 27 15/16 340 - 1.000	1 7/16 41	33.19 650	150	16.53 15	34,839 47	

巾

SERIES 20-AV 2-JAW UNIVERSAL PULLER WITH ADJUSTABLE REACH



The 2-jaw universal puller with adjustable reach is used for pulling bearings, gears, and discs in all common sizes for trades, workshops, and industry. The 20-5 is the largest of its kind in the world, making it the most powerful puller in the 20 series. It can loosen any component that sits on a shaft and is freely accessible from the outside. The puller adapts to any pulling situation due to its individually adjustable spread and reach, ensuring a particularly safe, non-destructive disassembly during both external extraction and internal extraction.

Benefits

- The screw connection allows easy loosening and particularly tight fastening of the jaws with an allen key.
- Application also for eccentric components through freely movable jaws gliding on the crossbar
- Variable adjustment for any span between 0 mm 750 mm as well as reach depth between 500 mm – 750 mm
- Secure attachment of the spindle through a rotatable spindle tip on both smooth surfaces and during centering (Switch Technology)

Technical attributes

#	4021176	\Box	įή		SW •	P	Max. tensile force	Max. tractive force	i
	EAN	mm/inch	mm/inch	mm/inch	mm/inch	Nm/ft lb	kN	t/US t. sh.	kg/lb
20-4-AV	-706233	0 - 520 0 - 21	500 19 11/16	200 - 590 7 7/8 - 23 1/4	36 1 7/16	400 295.04	120	12 13.23	2,74 6,042
20-40-AV	-973222	0 - 650 0 - 26	500 19 11/16	200 - 710 7 7/8 - 27 15/16	36 1 7/16	400 295.04	120	12 13.23	2 4,410
20-5-AV	-545313	0 - 750 0 - 29 1/2	750 29 1/2	340 - 1.000 13 3/8 - 39 3/8	41 1 5/8	650 479.44	150	15 16.53	45 99,225

SERIES 20-CLASSIC-B 2-JAW UNIVERSAL PULLER WITH ADJUSTABLE JAWS AND HYDRAULIC SPINDLE



Benefits

- Screw connection allows easy loosening and especially tight fastening of the jaws with an allen key
- The hydraulic spindle guarantees easy and controlled removal of particularly tight-fitting parts with minimal effort.

The 2-jaw universal puller with adjustable jaws and hydraulic spindle is used for the particularly safe removal of extremely tight bearings, gears,

and discs in all common sizes for trades, workshops, and industry. The

hydraulic spindle achieves an average pulling force of up to 15 t. This allows you to loosen any component that is seated on a shaft and is freely

accessible from the outside. For pulling operations with a pulling force of up to 10 t and/or in confined spaces, the mechanical spindle can be used.

- In limited spatial conditions that require direct access to the component, the mechanical spindle can be used.
- The mechanical spindle has a rotating spindle tip for secure placement on smooth surfaces and during centering.

Technical attributes

#	4021176				P	Max. tensile force	Max. tractive force		Included in the set
	EAN	mm/inch	mm/inch	mm/inch	Nm/ft lb	kN	t/US t. sh.	kg/lb	
20-2-B	-885815	11 - 160 7/16 - 6 5/16	150 5 7/8	100 - 220 3 15/16 - 8 11/16	15 11.06	100	10 11.02	4,52 9,967	-
20-20-B	-885846	11 - 200 7/16 - 7 7/8	160 6 5/16	100 - 260 3 15/16 - 10 1/4	15 11.06	100	10 11.02	4,9 10,805	K-2030-20-B
20-3-B	-885891	0 - 250 0 - 9 13/16	200 7 7/8	180 - 340 7 1/16 - 13 3/8	20 14.75	120	12 13.23	9,525 21,003	-
20-30-B	-885945	0 - 350 0 - 13 3/4	200 7 7/8	180 - 440 7 1/16 - 17 5/16	20 14.75	120	12 13.23	9,665 21,311	-
20-4-B	-885983	5,4 - 520 3/16 - 20 1/2	200 7 7/8	200 - 590 7 7/8 - 23 1/4	45 33.19	150	15 16.53	20 44,100	-
20-40-B	-886010	5,4 - 650 3/16 - 25 9/16	300 11 13/16	200 - 710 7 7/8 - 27 15/16	45 33.19	150	15 16.53	24,12 53,185	-
20-2-3-B	-885808	3,2 - 160 1/8 - 6 5/16	300 11 13/16	100 - 220 3 15/16 - 8 11/16	15 11.06	100	10 11.02	5,6 12,348	-
20-20-3-B	-885839	3,2 - 200 1/8 - 7 7/8	300 11 13/16	100 - 260 3 15/16 - 10 1/4	15 11.06	100	10 11.02	5,835 12,866	K-2030-20-B
20-3-3-B	-885860	0 - 250 0 - 9 13/16	300 11 13/16	180 - 340 7 1/16 - 13 3/8	20 14.75	120	12 13.23	10,24 22,579	-
20-3-4-B	-885877	0 - 250 0 - 9 13/16	400 15 3/4	180 - 340 7 1/16 - 13 3/8	20 14.75	120	12 13.23	11,34 25,005	-
20-3-5-B	-885884	0 - 250 0 - 9 13/16	500 19 11/16	180 - 340 7 1/16 - 13 3/8	20 14.75	120	12 13.23	12,285 27,088	-
20-30-3-B	-885914	0 - 350 0 - 13 3/4	300 11 13/16	180 - 440 7 1/16 - 17 5/16	20 14.75	120	12 13.23	10,7 23,594	-
20-30-4-B	-885921	0 - 350 0 - 13 3/4	400 15 3/4	180 - 440 7 1/16 - 17 5/16	20 14.75	120	12 13.23	11,765 25,942	-
20-30-5-B	-885938	0 - 350 0 - 13 3/4	500 19 11/16	180 - 440 7 1/16 - 17 5/16	20 14.75	120	12 13.23	12,815 28,257	-
20-4-3-B	-885952	15 - 520 9/16 - 20 1/2	300 11 13/16	200 - 590 7 7/8 - 23 1/4	45 33.19	150	15 16.53	17,8 39,249	-
20-4-4-B	-885969	15 - 520 9/16 - 20 1/2	400 15 3/4	200 - 590 7 7/8 - 23 1/4	45 33.19	150	15 16.53	18,9 41,675	-
20-4-5-B	-885976	15 - 520 9/16 - 20 1/2	500 19 11/16	200 - 590 7 7/8 - 23 1/4	45 33.19	150	15 16.53	23,89 52,677	-
20-40-4-B	-885990	15 - 650 9/16 - 25 9/16	400 15 3/4	200 - 710 7 7/8 - 27 15/16	45 33.19	150	15 16.53	20,3 44,762	-
20-40-5-B	-886003	15 - 650 9/16 - 25 9/16	500 19 11/16	200 - 710 7 7/8 - 27 15/16	45 33.19	150	15 16.53	25,69 56,646	-

SERIES 20-H 2-JAW PULLER WITH HYDRAULIC SPINDLE



Technical attributes

The 2-jaw universal puller with hydraulic spindle is suitable for pulling particularly stubborn bearings, gears, and discs with a pulling force of up to 20 t. Thanks to the integrated grease hydraulic, no external pump is required. The manually extendable lever arm can be swiveled 360°. The flexible connection thread on the spindle allows for the mounting of numerous puller tools from the KUKKO range, depending on thread size.

Benefits

- The screw connection allows easy loosening and particularly tight fastening of the jaws with an allen key.
- Application also for eccentric components through freely movable jaws gliding on the crossbar
- Variable adjustment for any span between 0 mm 750 mm as well as reach depth between 210 mm – 750 mm
- Fat hydraulic spindle ensures easy and controlled removal of tightly seated parts with minimal effort.

#	4021176	₫	(†)		Max. tensile force	Max. tractive force	i
	EAN	mm/inch	mm/inch	mm/inch	kN	t/US t. sh.	kg/lb
20-3-H	-786839	0 - 250 0 - 9 13/16	210 8 1/4	180 - 340 7 1/16 - 13 3/8	120	12 13.23	7,53 16,604
20-30-H	-786914	0 - 350 0 - 13 3/4	210 8 1/4	180 - 440 7 1/16 - 17 5/16	120	12 13.23	8,375 18,467
20-4-H	-227981	15 - 520 9/16 - 20 1/2	209 8 1/4	200 - 590 7 7/8 - 23 1/4	120	12 13.23	24,21 53,383
20-40-H	-732218	15 - 650 9/16 - 25 9/16	300 11 13/16	200 - 710 7 7/8 - 27 15/16	120	12 13.23	28,29 62,379
20-5-H	-228063	105 - 750 4 1/8 - 29 1/2	750 29 1/2	340 - 1.000 13 3/8 - 39 3/8	120	20 22.05	54 119,070

K-2030-20 15-PIECE UNIVERSAL PULLER SET (2-JAW AND 3-JAW)



The 15-piece Universal Puller Set of the Series 2030 is used for 2-jaw and 3-jaw pulling of large bearings, gears, discs, etc. in craft, industry, and workshop. The Series 2030 impresses with its diverse combination possibilities. The kit allows the assembly of 7 different variants through the combination of puller jaws and extensions. The robust design is particularly suitable for large and heavy applications in industry and commercial vehicles.

Benefits

- Application-oriented assembly for universal use
- By storing it in the box, the completeness of the set can be easily overviewed.
- Depending on the existing extraction situation, it can be easily adjusted and configured for a variety of applications.
- Through 2-jaw or 3-jaw design, one is always flexible in use.

#	 	\Box	ιth		SW	Max. tensile force	Max. tractive force	i	Components
	EAN	mm/inch	mm/inch	mm/inch	mm/inch	kN	t/US t. sh.	kg/lb	
K-2030-20	-123252	10 - 200 3/8 - 7 7/8	600 23 5/8	100 - 260 3 15/16 - 10 1/4	22 7/8	70	7 7.72	14,575 32,138	621220, 621355, 600-17, 2-150-S, 2-300-S, 2-V- 150-P, 30-20-T, 2-150-E, 2-300-E, 20-20-T, 30-20-T3



K-2030-10 13-PIECE UNIVERSAL PULLER SET (2-JAW AND 3-JAW)



The 13-piece Universal Puller Set from the 2030 series is used for 2-jaw and 3-jaw pulling of bearings, gears, discs, etc. in craftsmanship, industry, and workshops. The 2030 series impresses with its diverse combination options. The kit allows for the assembly of 8 different variants through the combination of puller jaws and extensions.

Benefits

- · Application-oriented assembly for universal use
- By storing it in the box, the completeness of the set can be easily overviewed.
- Depending on the existing extraction situation, it can be easily adjusted and configured for a variety of applications.
- Through 2-jaw or 3-jaw design, one is always flexible in use.

Technical attributes

#	4021176				SW	Max. tensile force	Max. tractive force		Components
	EAN	mm/inch	mm/inch	mm/inch	mm/inch	kN	t/US t. sh.	kg/lb	
K-2030-10	-974748	0 - 130 0 - 5 1/8	350 13 3/4	70 - 180 2 3/4 - 7 1/16	17 11/16	60	6 6.61	9,19 20,264	20-10, 30-10-T, 614250, 1-190-S, 1-250-S

K-2030-20-B 16-PIECE HYDRAULIC UNIVERSAL PULLER SET (2-JAW AND 3-JAW)



The 16-piece universal puller set from series 2030 is used for hydraulic, 2-jaw and 3-jaw pulling of large bearings, gears, disks, etc. in craft, industry, and workshop. The series 2030 impresses with its diverse combination options. The assembly set allows the combination of hydraulics, puller jaws, and extensions to create 14 different variants. The powerful design is particularly suitable for large and heavy applications in industry and commercial vehicles.

Benefits

- · Application-oriented assembly for universal use
- By storing it in the box, the completeness of the set can be easily overviewed.
- Depending on the existing extraction situation, it can be easily adjusted and configured for a variety of applications.
- Through 2-jaw or 3-jaw design, one is always flexible in use.

#	4021176				Max. tensile force	Max. tractive force		Components
	EAN	mm/inch	mm/inch	mm/inch	kN	t/US t. sh.	kg/lb	
K-2030-20-B	-123269	10 - 200 3/8 - 7 7/8	600 23 5/8	100 - 260 3 15/16 - 10 1/4	100	10 11.02	15,94 35,148	621220, 621355, 600- 17, 8-0-621, 2-150-S, 2-300-S, 2-V-150-S, 30- 20-T3, 2-150-E, 2-300-E, 20-20-T, 30-20-T3

20-ST SALES DISPLAY FOR 2-JAW UNIVERSAL PULLERS



The sales display for 2-jaw universal pullers is the ideal solution for the presentation and storage of various sizes of 2-jaw universal pullers. The 2-jaw universal pullers are used for pulling bearings, gears, and discs in all common sizes for crafts, workshops, and industry. This allows for the loosening of any component that is seated on a shaft and freely accessible from the outside. Equipped with robust and adjustable standard jaws, the puller all-rounder ensures particularly safe, non-destructive disassembly both during external extraction and internal extraction.

Benefits

- The sales and workshop stand provides an organized storage and presentation of the 2-jaw pullers.
- The screw connection allows for easy loosening and particularly tight fastening of the Abzugshaken with a hex key.
- Application also for eccentric components through freely movable, sliding puller jaws on the crossbar.
- · Hexagonal profile on the crossbar for secure counterholding

Technical attributes

#	4021176	<u> </u>						P	Max. tensile force	Max. tractive force		Components
	EAN	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	Nm/ft lb	kN	t/US t. sh.	kg/lb	
20-ST	-010248	630 24 13/16	250 9 13/16	330 12 1	0 - 250 0 - 9 13/16	210 8 1/4	100 - 340 3 15/16 - 13 3/8	300 221.28	85	8.5 9.37	2,16 4,763	20-1, 20-10, 20-2, 20-20, 20-3, 20-STL

SERIES 20-P 2-JAW UNIVERSAL PULLER WITH ADJUSTABLE JAWS IN SET



The 2-jaw universal puller with adjustable jaws is used for particularly safe pulling of bearings, gears, and discs in all common sizes for crafts, workshops, and industry. With the equipment of 2 pairs of jaws in various lengths, pulling processes with diverse combinations and depths are made possible. This allows for the loosening of any component that sits on a shaft and is freely accessible from the outside.

Benefits

- The screw connection allows easy loosening and particularly tight fastening of the jaws with an allen key.
- Application also for eccentric components through freely movable, sliding puller jaws on the crossbar.
- · Hexagonal profile on the crossbar for secure counterholding
- Variable adjustment for any spread between 0 mm 350 mm

#	4021176		įή		SW	P	Max. tensile force	Max. tractive force	i	Included in the set
	EAN	mm/inch	mm/inch	mm/inch	mm/inch	Nm/ft lb	kN	t/US t. sh.	kg/lb	
20-10-P3	-267611	9 - 130 3/8 - 5 1/8	350 13 3/4	95 - 160 3 3/4 - 6 5/16	17 11/16	80 59.01	45	4.5 4.96	3,97 8,754	K-2030-10
20-20-P2	-003004	10 - 200 3/8 - 7 7/8	300 11 13/16	100 - 260 3 15/16 - 10 1/4	22 7/8	150 110.64	60	6 6.61	5,95 13,120	K-2030-20, K-2030-20-B
20-30-P3	-003011	0 - 350 0 - 13 3/4	400 15 3/4	180 - 440 7 1/16 - 17 5/16	27 1 1/16	300 221.28	85	8.5 9.37	17,1 37,706	-

SERIES 20-S 2-JAW UNIVERSAL PULLER WITH NARROW EXTRACTOR JAWS



Technical attributes

The 2-jaw universal puller with narrow jaws is used for safely removing bearings, gears, and discs in all common sizes for crafts, workshops, and industry. It allows for the release of any component that is mounted on a shaft and is freely accessible from the outside. The narrow jaws ensure that even tight and poorly accessible spaces can be reached.

Benefits

- · Narrow jaws grip optimally in tight and hard-to-reach places.
- The screw connection allows easy loosening and particularly tight fastening of the jaws with an allen key
- Application also for eccentric components through freely movable, sliding puller jaws on the crossbar.
- · Hexagonal profile on the crossbar for secure counterholding

#	4021176	\Box	(†)		SW	P	Max. tensile force	Max. tractive force	i	Included in the set
	EAN	mm/inch	mm/inch	mm/inch	mm/inch	Nm/ft lb	kN	t/US t. sh.	kg/lb	
20-1-S	-757396	11 - 90 7/16 - 3 5/8	100 4	70 - 140 2 3/4 - 5 1/2	17 11/16	35 25.82	25	2.5 2.76	1,245 2,745	20-ST-S
20-10-S	-757471	4 - 120 3/16 - 5	100 4	70 - 180 2 3/4 - 7 1/16	17 11/16	35 25.82	25	2.5 2.76	1,365 3,010	K-2030-10-S, 20-ST-S
20-2-S	-727368	16 - 160 5/8 - 6	150 6	100 - 220 3 15/16 - 8 11/16	22 7/8	120 88.51	50	5 5.51	3,5 7,718	20-ST-S
20-20-S	-727443	16 - 200 5/8 - 8	150 6	100 - 260 3 15/16 - 10 1/4	22 7/8	120 88.51	50	5 5.51	3,285 7,243	K-2030-20-S, 20-ST-S
20-3-S	-727511	21 - 250 13/16 - 10	200 8	180 - 340 7 1/16 - 13 3/8	27 1 1/16	250 184.40	90	9 9.92	6,81 15,016	20-ST-S
20-30-S	-727696	21 - 350 13/16 - 14	200 8	180 - 440 7 1/16 - 17 5/16	27 1 1/16	250 184.40	90	9 9.92	7,38 16,273	-

SERIES K-2030-20-S 15-PIECE UNIVERSAL PULLER SET (2-JAW AND 3-JAW) WITH NARROW PULLER JAWS



The 15-piece universal puller set with narrow jaws from series 2030 is used for 2-jaw and 3-jaw pulling of large bearings, gears, disks, etc. for tight and difficult-to-access spaces in crafts, industry, and workshops. The series 2030 impresses with its versatile combination options. The kit allows for the assembly of 14 different variants through the combination of puller jaws and extensions. The robust design is particularly suitable for large and heavy applications in industry and commercial vehicles.

Benefits

- · Application-oriented assembly for universal use
- By storing it in the box, the completeness of the set can be easily overviewed.
- Depending on the existing extraction situation, it can be easily adjusted and configured for a variety of applications.
- Through 2-jaw or 3-jaw design, one is always flexible in use.

#	4021176		įή		SW	Max. tensile force	Max. tractive force	i	Components
	EAN	mm/inch	mm/inch	mm/inch	mm/inch	kN	t/US t. sh.	kg/lb	
K-2030-20-S	-123276	10 - 200 3/8 - 7 7/8	600 23 5/8	100 - 260 3 15/16 - 10 1/4	22 7/8	50	5 5.51	14,5 31,973	621220, 621355, 600-17, 2-151-S, 2-301-S, 2-V- 150-P, 30-20-T, 2-151-E, 20-20-T, 30-20-T3, 2-301-E

SERIES K-2030-10-S 13-PIECE UNIVERSAL PULLER SET (2-JAW AND 3-JAW) WITH NARROW PULLER JAWS



The 13-piece universal puller set with narrow puller jaws from series 2030 is used for 2-jaw and 3-jaw pulling of bearings, gears, discs, etc. in tight and hard-to-reach spaces in craft, industry, and workshop. The series 2030 convinces with its numerous combination options. The kit enables the assembly of 8 different variants through the combination of puller jaws and extensions.

Benefits

- · Application-oriented assembly for universal use
- By storing it in the box, the completeness of the set can be easily overviewed.
- Depending on the existing extraction situation, it can be easily adjusted and configured for a variety of applications.
- Through 2-jaw or 3-jaw design, one is always flexible in use.

Technical attributes

#	4021176				SW	Max. tensile force	Max. tractive force		Components
	EAN	mm/inch	mm/inch	mm/inch	mm/inch	kN	t/US t. sh.	kg/lb	
K-2030-10-S	-306181	0 - 130 0 - 5 1/8	350 13 3/4	70 - 180 2 3/4 - 7 1/16	17 11/16	30	3 3.31	8,92 19,669	20-10-S, 614250, 30-10-T, 1-191-S, 1-251-S

SERIES 20-ST-S SALES DISPLAY FOR 2-JAW UNIVERSAL PULLERS WITH NARROW JAWS



The sales display for 2-jaw universal pullers is the ideal solution for the presentation and storage of various sizes of 2-jaw universal pullers. The 2-jaw universal pullers with narrow puller jaws are used for the safe removal of bearings, gears, and discs in all common sizes for crafts, workshops, and industry. This allows for the loosening of any component that sits on a shaft and is freely accessible from the outside. The narrow puller jaws ensure that even tight and difficult-to-access spaces can be reached.

Benefits

- The sales and workshop stand provides organized storage and presentation of the 2-jaw pullers.
- Narrow jaws grip optimally in tight and hard-to-reach spots.
- The screw connection allows for easy loosening and particularly tight fastening of the jaws with a hex key.
- Application also with eccentric components through freely movable puller hooks sliding on the crossbar.

#	4021176	<u> </u>			İ	Įή		P	Max. tensile force	Max. tractive force	i	Components
	EAN	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	Nm/ft lb	kN	t/US t. sh.	kg/lb	
20-ST-S	-906282	630 24 13/16	250 9 13/16	330 12 1	4 - 250 3/16 - 9 13/16	200 7 7/8	70 - 340 2 3/4 - 13 3/8	250 184.40	70	7 7.72	19,67 43,372	20-1-S, 20-10-S, 20-2-S, 20-20-S, 20-3-S, 20-STL

SERIES 20-SP 2-JAW UNIVERSAL PULLER WITH NARROW JAWS IN SET



The 2-jaw universal puller with narrow, adjustable jaws is used for safely removing bearings, gears, and discs in all common sizes for craftsmanship, workshops, and industry. The equipment with three pairs of jaws in various lengths allows for extraction processes with diverse combinations and depths. This enables the loosening of any component that sits on a shaft and is freely accessible from the outside. The narrow jaws ensure access to even tight and poorly accessible spaces.

Benefits

- Narrow puller jaws grip optimally in tight and hard-to-reach areas.
- Screw connection allows for easy loosening and particularly tight fastening of the jaws with a hex key.
- Application also for eccentric components through freely movable, sliding puller jaws on the crossbar.
- · Hexagonal profile on the crossbar for secure counterholding

Technical attributes

#	4021176	\Box	ij		SW 	P	Max. tensile force	Max. tractive force	i	Included in the set
	EAN	mm/inch	mm/inch	mm/inch	mm/inch	Nm/ft lb	kN	t/US t. sh.	kg/lb	
20-10-SP	-461514	11 - 120 7/16 - 4 3/4	350 13 3/4	70 - 180 2 3/4 - 7 1/16	17 11/16	35 25.82	25	2.5 2.76	3,69 8,136	K-2030-10-S
20-20-SP	-701856	26 - 200 1 1/32 - 7 7/8	300 11 13/16	100 - 260 3 15/16 - 10 1/4	22 7/8	120 88.51	50	5 5.51	5,83 12,855	K-2030-20-S
20-30-SP	-701931	21 - 350 13/16 - 13 3/4	400 15 3/4	180 - 440 7 1/16 - 17 5/16	27 1 1/16	250 184.40	70	7 7.72	16,68 36,779	-

SERIES 20-S-T 2-JAW UNIVERSAL PULLER WITH EXTREMELY NARROW JAWS



The 2-jaw universal puller with extremely narrow jaws and trapezoidal support surface on the claw is used for the safe removal of transmission gears, bearings, sprockets, synchronizer bodies, and similar components. This allows for the loosening of any component that is seated on a shaft and is accessible from the outside. The special design of the jaws ensures that even very tight and poorly accessible gaps can be reached.

Benefits

- The extremely slim design of the puller jaws grips optimally in tight and hard-to-reach places.
- The screw connection allows for easy loosening and particularly tight fastening of the jaws with an allen key
- Application also for eccentric components through freely movable, sliding puller jaws on the crossbar.
- Hexagonal profile on the crossbar for secure counterholding

#	4021176	$\bigoplus_{i \in \mathcal{I}_i}$			SW I→I	P	Max. tensile force	Max. tractive force		Included in the set
	EAN	mm/inch	mm/inch	mm/inch	mm/inch	Nm/ft lb	kN	t/US t. sh.	kg/lb	
20-1-S-T	-321641	16 - 90 5/8 - 3 9/16	100 3 15/16	70 - 140 2 3/4 - 5 1/2	17 11/16	35 25.82	25	2.5 2.76	1,18 2,602	-
20-10-S-T	-201097	16 - 120 5/8 - 4 3/4	100 3 15/16	70 - 180 2 3/4 - 7 1/16	17 11/16	35 25.82	25	2.5 2.76	1,32 2,911	K-2030-10-S-T

SERIES K-2030-10-S-T 13-PIECE UNIVERSAL PULLER SET (2-JAW AND 3-JAW) WITH EXTREMELY NARROW PULLER JAWS



The 13-piece universal puller set with extremely narrow jaws of series 2030 is used for 2-jaw and 3-jaw pulling of gearbox gears, bearings, pinions, synchronizers, etc., for extremely tight and poorly accessible intermediate spaces in crafts, industry, and workshops. The series 2030 impresses with its diverse combination options. The kit allows for the assembly of 8 different variants by combining jaws and extensions.

Benefits

- · Application-oriented assembly for universal use
- By storing it in the box, the completeness of the set can be easily overviewed.
- Depending on the existing extraction situation, it can be easily adjusted and configured for a variety of applications.
- Through 2-jaw or 3-jaw design, one is always flexible in use.

Technical attributes

#	4021176		$[\uparrow]$		SW	Max. tensile force	Max. tractive force		Components
	EAN	mm/inch	mm/inch	mm/inch	mm/inch	kN	t/US t. sh.	kg/lb	
K-2030-10-S-T	-852022	0 - 130 0 - 5 1/8	350 13 3/4	70 - 180 2 3/4 - 7 1/16	17 11/16	30	3 3.31	8,85 19,514	20-10-S-T, 30-10-T, 614250, 1-194-E, 1-254-E

SERIES 20-SP-T 2-JAW UNIVERSAL PULLER WITH EXTREMELY NARROW JAWS IN SET



The 2-jaw universal puller with extremely narrow, adjustable jaws and trapezoidal support surface on the claw is used for safely removing gear wheels, bearings, pinions, synchronizer bodies, and similar components. The equipment is supplied with 3 pairs of jaws in different lengths, allowing removal processes with various combinations and reach depths. This allows for the removal of any component that is mounted on a shaft and is freely accessible from the outside. The extremely narrow jaws ensure that even very tight and poorly accessible gaps can be reached.

Benefits

- The extremely slim design of the puller jaws grips optimally in tight and hard-to-reach places.
- The screw connection allows easy loosening and particularly tight tightening of the jaws with an allen key
- Application also for eccentric components through freely movable, sliding puller jaws on the crossbar.
- Hexagonal profile on the crossbar for secure counterholding

#	4021176		$[\!$		SW ⊷	P	Max. tensile force	Max. tractive force		Included in the set
	EAN	mm/inch	mm/inch	mm/inch	mm/inch	Nm/ft lb	kN	t/US t. sh.	kg/lb	
20-10-SP-T	-321658	16 - 120 5/8 - 4 3/4	350 13 3/4	70 - 180 2 3/4 - 7 1/16	17 11/16	35 25.82	25	2.5 2.76	3,74 8,247	K-2030-10-S-T



SERIES 20+ 2-JAW UNIVERSAL PULLER WITH OUICKLY ADJUSTABLE JAWS



Technical attributes

The 2-jaw universal puller is used for extracting bearings, gears, and discs in all common sizes for crafts, workshops, and industry. It can loosen any component that sits on a shaft and is freely accessible from the outside. Equipped with robust and adjustable standard jaws, the puller all-rounder ensures particularly safe, non-destructive disassembly when performing external extraction as well as internal extraction.

Benefits

- The screw connection allows easy loosening and particularly tight fastening of the jaws with an allen key.
- Application also for eccentric components through freely movable, sliding puller jaws on the crossbar.
- Hexagonal profile on the crossbar for secure counter-holding
- Variable adjustment for any spread between 0 mm 350 mm

#	4021176		\Box		SW ⊷	P	Max. tensile force	Max. tractive force		Included in the set
	EAN	mm/inch	mm/inch	mm/inch	mm/inch	Nm/ft lb	kN	t/US t. sh.	kg/lb	
20-1+	-644771	9 - 90 3/8 - 3 5/8	100 4	100 - 120 3 15/16 - 4 3/4	17 11/16	80 59.01	45	4.5 4.96	1,27 2,800	K-2030-1+A, K- 20-1+S-T, K-20-1-2+B, 20-ST+, 20+ST+S, K-20-15
20-10+	-644856	10 - 130 3/8 - 5	100 4	95 - 160 3 3/4 - 6 5/16	17 11/16	80 59.01	45	4.5 4.96	1,44 3,175	K-2030-10+, 20-ST+
20-10+2	-773310	10 - 130 3/8 - 5 1/8	200 7 7/8	95 - 160 3 3/4 - 6 5/16	17 11/16	80 59.01	45	4.5 4.96	2,145 4,730	K-2030-10+, 20+ST+S
20-2+	-644931	10 - 160 3/8 - 6	162 6	100 - 220 3 15/16 - 8 11/16	22 7/8	150 110.64	60	6 6.61	3,45 7,607	K-20-1-2+B, 20-ST+, K-20-15
20-2+3	-773327	10 - 160 3/8 - 6 5/16	300 11 13/16	100 - 220 3 15/16 - 8 11/16	22 7/8	150 110.64	60	6 6.61	4,615 10,176	20+ST+S
20-20+	-645013	10 - 200 3/8 - 8	162 6	100 - 260 3 15/16 - 10 1/4	22 7/8	150 110.64	60	6 6.61	3,315 7,310	K-2030-20+S, K-2030-20+S+B, 20-ST+
20-3+	-645198	0 - 250 0 - 10	210 8	180 - 340 7 1/16 - 13 3/8	27 1 1/16	300 221.28	85	8.5 9.37	7,5 16,538	20-ST+
20-30+	-645273	0 - 350 0 - 14	200 8	180 - 440 7 1/16 - 17 5/16	27 1 1/16	300 221.28	85	8.5 9.37	7,51 16,560	-

SERIES 20+B 2-JAW UNIVERSAL PULLER WITH QUICKLY ADJUSTABLE JAWS AND HYDRAULIC SPINDLE



The 2-jaw universal puller with quickly adjustable jaws and hydraulic spindle is used for particularly safe and user-friendly extraction of extremely tight bearings, gears, and discs in all common sizes for craft, workshop, and industry. The hydraulic spindle achieves an average pulling force of a maximum of 12 t. This allows for the loosening of any component that sits on a shaft and is freely accessible from the outside. For extraction processes with a pulling force of up to 10 t and/or in confined spaces, the mechanical spindle can be used.

Benefits

- Simple manual release of the puller jaws via hand knob (Quick Adjust Technology)
- The hydraulic spindle guarantees easy and controlled removal of particularly stubborn parts with minimal effort.
- In limited spatial conditions that require direct access to the component, the mechanical spindle can be used.

#	4021176	\Box	ψ		P	Max. tensile force	Max. tractive force	i	Included in the set
	EAN	mm/inch	mm/inch	mm/inch	Nm/ft lb	kN	t/US t. sh.	kg/lb	
20-2+B	-885792	11 - 160 7/16 - 6 5/16	150 5 7/8	100 - 220 3 15/16 - 8 11/16	15 11.06	100	10 11.02	4,665 10,286	K-20-1-2+B, K-20-15
20-20+B	-885822	11 - 200 7/16 - 7 7/8	160 6 5/16	100 - 260 3 15/16 - 10 1/4	15 11.06	100	10 11.02	4,26 9,393	K-2030-20+S+B
20-3+B	-885853	0 - 250 0 - 9 13/16	200 7 7/8	180 - 340 7 1/16 - 13 3/8	20 14.75	120	12 13.23	8,9 19,625	-
20-30+B	-885907	0 - 350 0 - 13 3/4	200 7 7/8	180 - 440 7 1/16 - 17 5/16	20 14.75	120	12 13.23	9,625 21,223	-

SERIES K-2030-10+S+T 13-PIECE UNIVERSAL PULLER SET (2-JAW AND 3-JAW)



The 13-piece universal puller set from series 2030 is used for 2-jaw and 3-jaw pulling of bearings, gears, discs, etc. in tight and hard-to-reach spaces in crafts, industry, and workshops. The series 2030 impresses with its versatile combination options. The kit allows for the assembly of 24 different variants by combining 3 different types of puller jaws and several extensions.

Benefits

- · Application-oriented assembly for universal use
- By storing it in the box, the completeness of the set can be easily overviewed.
- Depending on the existing extraction situation, it can be easily adjusted and configured for a variety of applications.
- Through 2-jaw or 3-jaw design, one is always flexible in use.

Technical attributes

#					SW 	max. Zug- kraft	max. Zug- kraft		Bestandteile
		mm	mm	mm	mm	kN	t	kg	
K-2030-10+S+T	4021176100765	0 - 130	350	70 - 180	17	60	6	9	30-10-T, 614250, 20- 10+S, 1-192-S, 1-255-S

SERIES K-2030-10+ 13-PIECE UNIVERSAL PULLER SET (2-JAW AND 3-JAW) WITH QUICK-ADJUSTABLE JAWS



The 13-piece universal puller set with quickly adjustable jaws of the 2030 series is used for 2-jaw and 3-jaw pulling of bearings, gears, discs, etc. in crafts, industry, and workshops. The 2030 series impresses with its versatile combination options. The set allows for the assembly of 8 different variants through the combination of jaws and extensions.

Benefits

- · Application-oriented assembly for universal use
- By storing it in the box, the completeness of the set can be easily overviewed.
- Depending on the given pull-off situation, easily adjustable and configurable for a variety of applications.
- With 2-jaw or 3-jaw, you are always flexible in use.

#	4021176				SW	Max. tensile force	Max. tractive force		Components
	EAN	mm/inch	mm/inch	mm/inch	mm/inch	kN	t/US t. sh.	kg/lb	
K-2030-10+	-001697	0 - 130 0 - 5 1/8	350 13 3/4	70 - 180 2 3/4 - 7 1/16	17 11/16	60	6 6.61	9,26 20,418	30-10-T, 614250, 1-192-S, 1-252-S, 20-10+



SERIES K-2030-1+A 13-PIECE UNIVERSAL PULLER SET (2-JAW AND 3-JAW) WITH NARROW, QUICKLY ADJUSTABLE JAWS



The 13-piece universal puller set (2-jaw and 3-jaw) with narrow, quickly adjustable puller jaws from series 2030 is used for pulling bearings, gears, discs, etc. in tight and hard-to-reach spaces in crafts, industry, and workshops. The series 2030 impresses with its versatile combinations. The kit allows for the assembly of 8 different variants by combining puller jaws and extensions.

Benefits

- · Application-oriented assembly for universal use
- By storing it in the box, the completeness of the set can be easily overviewed.
- Depending on the existing extraction situation, it can be easily adjusted and configured for a variety of applications.
- Through 2-jaw or 3-jaw design, one is always flexible in use.

Technical attributes

#	4021176				SW	Max. tensile force	Max. tractive force		Components
	EAN	mm/inch	mm/inch	mm/inch	mm/inch	kN	t/US t. sh.	kg/lb	
K-2030-1+A	-242311	9 - 90 3/8 - 3 9/16	200 7 7/8	100 - 120 3 15/16 - 4 3/4	17 11/16	45	4.5 4.96	4,755 10,485	600-17, 20-1-T, 30-1-T, 614160, 1-V-100-S, 1-92-S, 1-93-S

SERIES K-20-1-2+B 14-PIECE UNIVERSAL PULLER (2-JAW) SET WITH QUICK ADJUSTMENT, HYDRAULIC SPINDLE, AND EXTENSIONS



The 14-piece universal puller set with quick adjustment, hydraulic spindle, and extensions from the K-20-1-2+B series is used for 2-jaw pulling of normal and particularly seized bearings, gears, discs, etc. in crafts, industry, and workshops. The series impresses with its diverse design possibilities. The \"6 in 1\" kit allows the assembly of 6 different puller models through the combination of hydraulics, puller jaws, and extensions.

Benefits

- Application-oriented assembly for universal use
- By storing it in the box, the completeness of the set can be easily overviewed
- Depending on the existing extraction situation, it can be easily adjusted and configured for a variety of applications.
- Through the hooks for different spans, you are always flexible in use.

#	4021176				Max. tensile force	Max. tractive force	i	Components
	EAN	mm/inch	mm/inch	mm/inch	kN	t/US t. sh.	kg/lb	
K-20-1-2+B	-935923	0 - 160 0 - 6 5/16	0 - 300 0 - 11 13/16	100 - 220 3 15/16 - 8 11/16	100	10 11.02	0 0,000	20-1+, 20-2+, 8-0-621, 600-17, 1-192-P, 2-302-P

SERIES K-20-15 12-PIECE UNIVERSAL PULLER AND SEPARATOR SET





The 12-piece Universal Puller and Separator Set of the K-20-15 series is used for hydraulic pulling and separating of ball bearings, roller bearings, inner rings, and other flush-mounted parts in crafts, industry, and workshops. The kit allows the assembly of 7 different puller models through the combination of puller jaws and extensions. Together with the separating devices of the 15 series and the hydraulic spindle, various combination options arise for optimal use in changing pulling situations.

Benefits

- · Application-oriented assembly for universal use
- By storing it in the box, the completeness of the set can be easily overviewed.
- Depending on the existing extraction situation, it can be easily adjusted and configured for a variety of applications.
- The hydraulic spindle enables gentle and safe extraction.

Technical attributes

#	4021176							Max. tensile force	Max. tractive force	i	Components
	EAN	mm/ inch	mm/ inch	mm/ inch	mm/ inch	mm/ inch	mm/ inch	kN	t/US t. sh.	kg/lb	
K-20-15	-367311	9 - 160 3/8 - 6 5/16	0 - 312 0 - 12 5/16	100 - 220 3 15/16 - 8 11/16	68 - 244 2 11/16 - 9 5/8	260 10 1/4	22 - 115 7/8 - 4 1/2	100	10 11.02	21,61 47,650	600-17, 8-0-621, 15- 2, 18-2, 20-1+, 20-2+, 1-192-P, 2-302-P

SERIES 20-ST+ SALES DISPLAY FOR 2-JAW UNIVERSAL PULLERS WITH QUICK-ADJUSTABLE JAWS



The sales display for 2-jaw universal pullers is the ideal solution for the presentation and storage of various sizes of 2-jaw universal pullers. The 2-jaw universal pullers are used for pulling bearings, gears, and discs in all common sizes for crafts, workshops, and industry. This allows for the loosening of any component that is seated on a shaft and freely accessible from the outside. Equipped with robust and adjustable standard jaws, the puller all-rounder ensures particularly safe, non-destructive disassembly both during external extraction and internal extraction.

Benefits

- The sales and workshop stand provides organized storage and presentation of the 2-jaw pullers.
- The screw connection allows for easy loosening and particularly tight fastening of the Abzugshaken with a hex key.
- Application also for eccentric components through freely movable, sliding puller jaws on the crossbar.
- · Hexagonal profile on the crossbar for secure counterholding

#	4021176	<u> </u>			\Box	$[\uparrow \downarrow]$		P	Max. tensile force	Max. tractive force		Components
	EAN	mm/ inch	mm/ inch	mm/ inch	mm/ inch	mm/ inch	mm/ inch	Nm/ ft lb	kN	t/ US t. sh.	kg/lb	
20-ST+	-668944	630 24 13/16	250 9 13/16	330 12 1	0 - 250 0 - 9 13/16	210 8 1/4	100 - 340 3 15/16 - 13 3/8	300 221.28	85	8.5 9.37	2,2 4,851	20-STL, 20-1+, 20-10+, 20-2+, 20-20+, 20-3+

SERIES 20+S 2-JAW UNIVERSAL PULLER WITH NARROW, QUICK-ADJUSTABLE EXTRACTOR JAWS



Technical attributes

The 2-jaw universal puller with narrow, quickly adjustable jaws is used for the safe and user-friendly removal of bearings, gears, and discs in all common sizes for craft, workshop, and industry. This allows for the loosening of any component seated on a shaft and freely accessible from the outside. The narrow jaws ensure that even tight and hard-to-reach gaps can be accessed.

Benefits

- Narrow pulling jaws grip optimally in tight and hard-to-reach places.
- Simple manual release of the {Abzugshaken} using hand knob (Quick Adjust Technology)
- Application also for eccentric components through freely movable, sliding puller jaws on the crossbar.
- Hexagonal profile on the crossbar for secure counterholding

#	4021176		įήį		SW	P	Max. tensile force	Max. tractive force		Included in the set
	EAN	mm/inch	mm/inch	mm/inch	mm/inch	Nm/ft lb	kN	t/US t. sh.	kg/lb	
20-1+\$	-756221	4 - 90 3/16 - 3 5/8	100 4	70 - 140 2 3/4 - 5 1/2	17 11/16	35 25.82	25	2.5 2.76	1,27 2,800	KS-2030-1-193xS, K-2030-1+A, KS- 2030-1-193+S, 20-ST+S
20-10+5	-756306	4 - 120 3/16 - 5	100 4	70 - 180 2 3/4 - 7 1/16	17 11/16	35 25.82	25	2.5 2.76	1,42 3,131	K-2030-10+S, 20- ST+S, 20+ST+S
20-2+5	-756481	16 - 160 5/8 - 6	150 6	100 - 220 3 15/16 - 8 11/16	22 7/8	120 88.51	50	5 5.51	3,4 7,497	20-ST+S, 20+ST+S
20-20+5	-756559	16 - 200 5/8 - 8	150 6	100 - 260 3 15/16 - 10 1/4	22 7/8	120 88.51	50	5 5.51	3,3 7,277	K-2030-20+S, K-2030-20+S+B, 20-ST+S
20-3+5	-756634	21 - 250 13/16 - 10	200 8	180 - 340 7 1/16 - 13 3/8	27 1 1/16	250 184.40	90	9 9.92	6,885 15,181	20-ST+S
20-30+S	-756719	21 - 350 13/16 - 14	200 8	180 - 440 7 1/16 - 17 5/16	27 1 1/16	250 184.40	90	9 9.92	7,37 16,251	-

SERIES K-2030-10+S 13-PIECE UNIVERSAL PULLER SET (2-JAW AND 3-JAW) WITH NARROW, OUICK-ADJUSTING JAWS



The 13-piece universal puller set with narrow, quick-adjustable jaws from series 2030 is used for 2-jaw and 3-jaw pulling of bearings, gears, discs, etc. in tight and hard-to-reach spaces in craftsmanship, industry, and workshops. The series 2030 impresses with its versatile combination options. The kit allows for the assembly of 8 different variants by combining the jaws and extensions.

Benefits

- · Application-oriented assembly for universal use
- By storing it in the box, the completeness of the set can be easily overviewed.
- Depending on the existing extraction situation, it can be easily adjusted and configured for a variety of applications.
- Through 2-jaw or 3-jaw design, one is always flexible in use.

#	4021176		\Box		SW	Max. tensile force	Max. tractive force		Components
	EAN	mm/inch	mm/inch	mm/inch	mm/inch	kN	t/US t. sh.	kg/lb	
K-2030-10+S	-120060	0 - 130 0 - 5 1/8	350 13 3/4	70 - 180 2 3/4 - 7 1/16	17 11/16	30	3 3.31	8,5 18,743	20-10+S, 30-10-T, 614250, 1-193-S, 1-253-S

SERIES K-2030-20+S 15-PIECE UNIVERSAL PULLER SET (2-JAW AND 3-JAW) WITH TWO DIFFERENT PULLER JAW TYPES



The 15-piece universal puller set with two different types of puller jaws from series 2030 is used universally for 2-jaw and 3-jaw extraction of gearbox gears, bearings, sprockets, and synchronizers in crafts, industry, and workshops. The series 2030 impresses with its diverse combination possibilities. This set includes the basic equipment of 2-jaw and 3-jaw pullers needed for universal work. Additionally, the set is equipped with two variants of puller jaws to provide even more possibilities in application. The robust design is particularly suitable for large and heavy applications in industry and commercial vehicles and enables the assembly of 14 different variants.

Benefits

- · Application-oriented assembly for universal use
- By storing it in the box, the completeness of the set can be easily overviewed.
- Depending on the existing extraction situation, it can be easily adjusted and configured for a variety of applications.
- Through 2-jaw or 3-jaw design, one is always flexible in use.

Technical attributes

#	######################################	mm/inch	mm/inch	mm/inch	sw mm/inch	Max. tensile force kN	Max. tractive force t/US t. sh.	kg/lb	Components
K-2030-20+S	-058677	10 - 200 3/8 - 7 7/8	260 10 1/4	150 - 600 5 7/8 - 23 5/8	22 7/8	50	5 5.51	14,76 32,546	621220, 621355, 2-152-P, 2-153-P, 2-302-P, 2-V-150-P, 20-20-T, 30-20-T3, 30-20-T3, 600-17, 20-30-T

SERIES K-2030-20+S+B 16-PIECE UNIVERSAL PULLER SET (2-JAW AND 3-JAW) WITH TWO DIFFERENT TYPES OF PULLER JAWS AND HYDRAULIC SPINDLE



The 16-piece universal puller set, featuring two different types of jaws and a hydraulic spindle of the series 2030, is used for universal applications in the 2-jaw and 3-jaw pulling of gearbox gears, bearings, sprockets, and synchronizers in craft, industry, and workshops. The series 2030 impresses with its versatile combination options. This set includes the basic equipment of 2-jaw and 3-jaw pullers needed for universal work. Additionally, the set is equipped with two variants of jaws to provide even more possibilities in application. The robust design is particularly suitable for large and heavy applications in industry and commercial vehicles, allowing for the assembly of 28 different variants.

Benefits

- · Application-oriented assembly for universal use
- By storing it in the box, the completeness of the set can be easily overviewed.
- Depending on the existing extraction situation, it can be easily adjusted and configured for a variety of applications.
- Through 2-jaw or 3-jaw design, one is always flexible in use.

#	4021176		\Box		Max. tensile force	Max. tractive force	i	Components
	EAN	mm/inch	mm/inch	mm/inch	kN	t/US t. sh.	kg/lb	
K-2030-20+S+B	-487422	10 - 200 3/8 - 7 7/8	260 10 1/4	150 - 600 5 7/8 - 23 5/8	100	10 11.02	14,22 31,355	621220, 621355, 2-152-P, 2-153-P, 2-302-P, 2-V-150-P, 8-0-621, 20-20-T, 30-20-T3, 600-17



SERIES KS-2030-1-193+S 9-PIECE UNIVERSAL PULLER SET (2-JAW AND 3-JAW) WITH NARROW JAWS



The 9-piece Universal Puller Set with narrow puller jaws from the series KS-2030-1-193+S is used for pulling bearings, gears, discs, etc. in tight and hard-to-reach spaces in crafts, industry, and workshops. The kit allows switching between 2-jaw and 3-jaw pullers and different jaws, resulting in 4 different variations.

Benefits

- · Application-oriented assembly for universal use
- By storing it in the box, the completeness of the set can be easily overviewed.
- Narrow puller jaws optimally grip in tight and hard-to-reach places.
- Simple manual release of jaws using hand knob (Quick Adjust Technology)

Technical attributes

#	4021176				SW 	Max. tensile force	Max. tractive force		Components
	EAN	mm/inch	mm/inch	mm/inch	mm/inch	kN	t/US t. sh.	kg/lb	
KS-2030-1-193+S	-967399	0 - 90 0 - 3 9/16	0 - 200 0 - 7 7/8	70 - 140 2 3/4 - 5 1/2	17 11/16	45	4.5 4.96	4,22 9,305	20-1+S, 1-193-S, 1-93-E, 30-1-T

SERIES K-20-1+S-T 8-PIECE UNIVERSAL PULLER (2-JAW) SET WITH EXTENSIONS



The 8-piece universal puller set with extensions is used for universal applications in the 2-jaw removal of gearbox gears, bearings, sprockets, and synchronizers in all common sizes for craft, workshop, and industry. This allows loosening any component seated on a shaft and freely accessible from the outside. Equipped with robust and adjustable standard jaws, the puller all-rounder ensures a particularly safe, non-destructive disassembly during both external and internal extraction. This set enables the assembly of 4 different puller models through variable combinations of standard and S-jaws and extensions, thereby ensuring maximum universal application.

Benefits

- Application-oriented assembly for universal use
- By storing it in the box, the completeness of the set can be easily overviewed.
- The screw connection allows easy loosening and especially tight fastening of the jaws with a hex key.
- Application also for eccentric components through freely movable, sliding puller jaws on the crossbar.
- · Hexagonal profile on the crossbar for secure counterholding

#	4021176		Įήį		SW I⊷I	Max. tensile force	Max. tractive force		Components
	EAN	mm/inch	mm/inch	mm/inch	mm/inch	kN	t/US t. sh.	kg/lb	
K-20-1+S-T	-102608	0 - 90 0 - 3 9/16	0 - 200 0 - 7 7/8	70 - 140 2 3/4 - 5 1/2	17 11/16	45	4.5 4.96	2,64 5,821	20-1+S, 1-95-P, 1-V-100-P, 1-92-P

SERIES 20-ST+S SALES DISPLAY FOR 2-JAW UNIVERSAL PULLER WITH NARROW, OUICKLY ADJUSTABLE JAWS



The display for 2-jaw universal pullers is the ideal solution for the presentation and storage of various sizes of 2-jaw universal pullers. The 2-jaw universal pullers with narrow, quick-adjusting jaws are used for the safe and user-friendly removal of bearings, gears, and discs in all common sizes for crafts, workshops, and industry. This allows any component that is on a shaft and freely accessible from the outside to be loosened. The narrow jaws ensure that even tight and hard-to-reach spaces can be accessed.

Benefits

- The sales and workshop stand provides organized storage and presentation of the 2-jaw pullers.
- Narrow jaws grip optimally in tight and hard-to-reach spots.
- Simple manual release of the jaws via hand knob (Quick Adjust Technology)
- Application also for eccentric components through freely movable, sliding puller jaws on the crossbar.

Technical attributes

#	4021176	$\overline{\underline{1}}$				įή		P	Max. tensile force	Max. tractive force	i	Components
	EAN	mm/ inch	mm/ inch	mm/ inch	mm/ inch	mm/ inch	mm/ inch	Nm/ ft lb	kN	t/ US t. sh.	kg/lb	
20-ST+S	-998812	630 24 13/16	250 9 13/16	330 12 1	4 - 250 3/16 - 9 13/16	200 7 7/8	70 - 340 2 3/4 - 13 3/8	250 184.40	70	7 7.72	19,87 43,813	20-1+S, 20-10+S, 20-2+S, 20-20+S, 20-3+S, 20-STL

SERIES 20+SP 2-JAW UNIVERSAL PULLER WITH NARROW, QUICKLY ADJUSTABLE JAWS IN SET



The 2-jaw universal puller with narrow, quickly adjustable extractor jaws is used for safely and user-friendly extracting of bearings, gears, and discs in all common sizes for craftsmanship, workshops, and industry. Equipped with three pairs of extractor jaws in various lengths, extraction processes with diverse combinations and depths are made possible. This allows for the removal of any component seated on a shaft that is freely accessible from the outside. The narrow extractor jaws ensure that tight and poorly accessible spaces can also be reached.

Benefits

- Narrow jaws grip optimally in tight and hard-to-reach places.
- Simple manual release of the {Abzugshaken} using hand knob (Quick Adjust Technology)
- Application also for eccentric components through freely movable, sliding puller jaws on the crossbar.
- · Hexagonal profile on the crossbar for secure counterholding

Technical attributes

#	4021176	\Box	ij		SW	P	Max. tensile force	Max. tractive force	i	Included in the set
	EAN	mm/inch	mm/inch	mm/inch	mm/inch	Nm/ft lb	kN	t/US t. sh.	kg/lb	
20-10+SP	-181061	16 - 120 5/8 - 4 3/4	350 13 3/4	70 - 180 2 3/4 - 7 1/16	17 11/16	35 25.82	25	2.5 2.76	3,875 8,544	K-2030-10+S
20-20+SP	-181078	16 - 200 5/8 - 7 7/8	300 11 13/16	100 - 260 3 15/16 - 10 1/4	22 7/8	120 88.51	50	5 5.51	5,96 13,142	-
20-30+SP	-181085	21 - 350 13/16 - 13 3/4	400 15 3/4	180 - 440 7 1/16 - 17 5/16	27 1 1/16	250 184.40	70	7 7.72	18,12 39,955	-



SERIES 20+S-T 2-JAW UNIVERSAL PULLER WITH EXTREMELY NARROW, QUICKLY ADJUSTABLE JAWS



The 2-jaw universal puller with extremely narrow, quickly adjustable jaws and trapezoidal support surfaces on the claw is used for safely and user-friendly pulling of transmission gears, bearings, sprockets, synchronizer bodies, and similar components. This allows for the loosening of any component that sits on a shaft and is freely accessible from the outside. The trapezoidal support surfaces of the claw ensure that even very tight and hard-to-reach spaces are accessible.

Benefits

- The extremely slim design of the jaws optimally engages in extremely tight and hard-to-reach spots.
- Simple manual release of the {Abzugshaken} using hand knob (Quick Adjust Technology)
- Application also for eccentric components through freely movable, sliding puller jaws on the crossbar.
- · Hexagonal profile on the crossbar for secure counterholding

Technical attributes

#	4021176		įή		SW 	P	Max. tensile force	Max. tractive force	i	Included in the set
	EAN	mm/inch	mm/inch	mm/inch	mm/inch	Nm/ft lb	kN	t/US t. sh.	kg/lb	
20-1+S-T	-321344	16 - 90 5/8 - 3 9/16	100 3 15/16	70 - 140 2 3/4 - 5 1/2	17 11/16	35 25.82	25	2.5 2.76	1,215 2,679	K-20-1+S-T
20-10+S-T	-321368	16 - 120 5/8 - 4 3/4	100 3 15/16	70 - 180 2 3/4 - 7 1/16	17 11/16	35 25.82	25	2.5 2.76	1,35 2,977	K-2030-10+S-T

SERIES K-2030-10+S-T 13-PIECE UNIVERSAL PULLER SET (2-JAW AND 3-JAW) WITH EXTREMELY NARROW, OUICK-ADJUSTING JAWS



The 13-piece universal puller set with extremely narrow, quickly adjustable jaws of series 2030 is used for the 2-jaw and 3-jaw pulling of gear wheels, bearings, sprockets, synchronizers, etc. for extremely tight and hard-to-reach spaces in craft, industry, and workshop. The series 2030 impresses with its diverse combination possibilities. The kit enables the assembly of 8 different variants by combining jaws and extensions.

Benefits

- · Application-oriented assembly for universal use
- By storing it in the box, the completeness of the set can be easily overviewed.
- Depending on the existing extraction situation, it can be easily adjusted and configured for a variety of applications.
- Through two- or three-jaw design, you are always flexible in use.

#	4021176				SW 	Max. tensile force	Max. tractive force		Components
	EAN	mm/inch	mm/inch	mm/inch	mm/inch	kN	t/US t. sh.	kg/lb	
K-2030-10+S-T	-001710	0 - 130 0 - 5 1/8	350 13 3/4	70 - 180 2 3/4 - 7 1/16	17 11/16	30	3 3.31	8,91 19,647	20-10+S-T, 30-10-T, 614250, 1-195-S, 1-255-S

SERIES 20+ST+S SALES DISPLAY FOR 2-JAW UNIVERSAL PULLER WITH NARROW, OUICKLY ADJUSTABLE JAWS



The display for 2-jaw universal pullers is the ideal solution for the presentation and storage of various sizes of 2-jaw universal pullers. The 2-jaw universal pullers with narrow, quick-adjusting jaws are used for the safe and user-friendly removal of bearings, gears, and discs in all common sizes for crafts, workshops, and industry. This allows any component that is on a shaft and freely accessible from the outside to be loosened. The narrow jaws ensure that even tight and hard-to-reach spaces can be accessed.

Benefits

- The sales and workshop stand provides organized storage and presentation of the 2-jaw pullers.
- Narrow puller jaws grip optimally in tight and inaccessible places.
- Simple manual release of the jaws via hand knob (Quick Adjust Technology)
- Application also for eccentric components through freely movable, sliding puller jaws on the crossbar.

Technical attributes

#	######################################	<u>∏</u>	mm/	mm/	mm/	mm/	mm/	Nm/	Max. tensile force kN	Max. tractive force	kg/lb	Components
		inch	inch	inch	inch	inch	inch	ft lb		US t. sh.		
20+ST+S	-773303	630 24 13/16	250 9 13/16	216 8 1/2	9 - 160 3/8 - 6 5/16	300 11 13/16	100 - 220 3 15/16 - 8 11/16	150 110.64	60	6 6.61	16,27 35,875	20-1+, 20-10+S, 20-2+S, 20-10+2, 20-2+3, 20-STL

SERIES 20X 2-JAW UNIVERSAL PULLER WITH QUICKLY ADJUSTABLE JAWS



Technical attributes

The 2-jaw universal puller with quickly adjustable jaws is used for extracting bearings, gears, and discs in all common sizes for crafts, workshops, and industry. It can release any component sitting on a shaft and freely accessible from the outside. Equipped with robust standard jaws and hand knobs for maximum operating comfort, this all-rounder puller ensures particularly safe, very user-friendly, and non-destructive disassembly during both external extraction and internal pulling.

Benefits

- Simple, manual solution of the Jaw clamps using hand knobs (Quick Adjust Technology)
- Optimized quick adjustment form guarantees an exceptionally good haptics (even with wet or oily hands)
- Quick-adjustable jaws guarantee immediate adjustment to any spread between 0 mm – 350 mm

#	4021176		الل		SW 	P	Max. tensile force	Max. tractive force		Included in the set
	EAN	mm/inch	mm/inch	mm/inch	mm/inch	Nm/ft lb	kN	t/US t. sh.	kg/lb	
20-1x NEW	-041471	9 - 90 3/8 - 3 9/16	100 3 15/16	100 - 120 3 15/16 - 4 3/4	17 11/16	80 59.01	65	6.5 7.17	1,315 2,900	20x-ST
20-10x NEW	-041464	10 - 130 3/8 - 5 1/8	100 3 15/16	95 - 160 3 3/4 - 6 5/16	17 11/16	80 59.01	65	6.5 7.17	1,46 3,219	20x-ST
20-2x NEW	-041495	10 - 160 3/8 - 6 5/16	162 6 3/8	100 - 220 3 15/16 - 8 11/16	22 7/8	150 110.64	80	8 8.82	3,65 8,048	20x-ST
20-20x NEW	-041488	10 - 200 3/8 - 7 7/8	162 6 3/8	100 - 260 3 15/16 - 10 1/4	22 7/8	150 110.64	80	8 8.82	3,395 7,486	20x-ST, K- 2030-20xS
20-3x NEW	-041525	0 - 250 0 - 9 13/16	210 8 1/4	180 - 340 7 1/16 - 13 3/8	27 1 1/16	300 221.28	105	10.5 11.57	1,325 2,922	20x-ST
20-30x NEW	-041518	0 - 350 0 - 13 3/4	200 7 7/8	180 - 440 7 1/16 - 17 5/16	27 1 1/16	300 221.28	105	10.5 11.57	1,325 2,922	-

SERIES 30-CLASSIC 3-JAW UNIVERSAL PULLER



The 3-jaw universal puller is used for pulling bearings, gears, and discs in all common sizes for crafts, workshops, and industry. It allows you to loosen any component that sits on a shaft and is freely accessible from the outside. Equipped with robust and adjustable standard jaws, the puller all-rounder ensures particularly safe, non-destructive disassembly both during external extraction and internal extraction. The 3-jaw design guarantees even load distribution and thus a particularly secure hold on the part being pulled.

Benefits

- Screw connection enables easy loosening and particularly tight fastening of the jaws with an allen key
- 3-jaw provides an even distribution of force and allows for greater pulling forces.
- Application also for eccentric components through freely movable, sliding puller jaws on the crossbar.
- · Hexagonal profile on the crossbar for secure counterholding

#	4021176		Ţ		SW 	P	Max. tensile force	Max. tractive force	i	Included in the set
	EAN	mm/inch	mm/inch	mm/inch	mm/inch	Nm/ft lb	kN	t/US t. sh.	kg/lb	
30-1	-013393	0 - 90 0 - 3 5/8	100 4	70 - 140 2 3/4 - 5 1/2	17 11/16	80 59.01	60	6 6.61	1,53 3,374	-
30-10	-013621	0 - 130 0 - 5	100 4	70 - 180 2 3/4 - 7 1/16	17 11/16	80 59.01	60	6 6.61	1,59 3,506	K-2030-10
30-2	-013478	0 - 160 0 - 6	150 6	100 - 220 3 15/16 - 8 11/16	22 7/8	150 110.64	70	7 7.72	3,815 8,412	-
30-20	-013706	0 - 200 0 - 8	150 6	100 - 260 3 15/16 - 10 1/4	22 7/8	150 110.64	70	7 7.72	4,14 9,129	K-2030-20, K-2030-20-B
30-3	-013546	0 - 250 0 - 10	200 8	180 - 340 7 1/16 - 13 3/8	27 1 1/16	250 184.40	100	10 11.02	9,615 21,201	-
30-30	-303005	105 - 375 4 1/8 - 14	200 8	180 - 440 7 1/16 - 17 5/16	36 1 7/16	250 184.40	150	15 16.53	17,43 38,433	-
30-4	-303302	105 - 375 4 1/8 - 15	200 8	200 - 590 7 7/8 - 23 1/4	36 1 7/16	500 368.80	150	15 16.53	17,88 39,425	-
30-40	-303319	125 - 520 4 15/16 - 21	200 8	200 - 710 7 7/8 - 27 15/16	41 1 5/8	500 368.80	150	15 16.53	22,64 49,921	-
30-5	-303326	87 - 650 3 7/16 - 26	300 8	290 - 740 11 7/16 - 29 1/8	41 1 5/8	650 479.44	200	20 22.05	31,71 69,921	-
30-1-2	-730726	0 - 90 0 - 3 5/8	200 8	70 - 140 2 3/4 - 5 1/2	17 11/16	80 59.01	60	6 6.61	2,445 5,391	-
30-10-2	-730801	0 - 130 0 - 5	200 8	70 - 180 2 3/4 - 7 1/16	17 11/16	80 59.01	60	6 6.61	2,63 5,799	K-2030-10
30-2-3	-730986	5 - 160 3/16 - 6	300 12	100 - 220 3 15/16 - 8 11/16	22 7/8	150 110.64	70	7 7.72	5,565 12,271	-
30-20-3	-731068	5 - 200 3/16 - 8	300 12	100 - 260 3 15/16 - 10 1/4	22 7/8	150 110.64	70	7 7.72	5,98 13,186	K-2030-20, K-2030-20-B
30-3-25	-901256	0 - 250 0 - 10	250 10	180 - 340 7 1/16 - 13 3/8	27 1 1/16	250 184.40	100	10 11.02	10,195 22,480	-
30-3-3	-731143	0 - 250 0 - 10	300 12	180 - 340 7 1/16 - 13 3/8	27 1 1/16	250 184.40	100	10 11.02	11,305 24,928	-
30-3-4	-731228	0 - 250 0 - ιο	400 16	180 - 340 7 1/16 - 13 3/8	27 1 1/16	250 184.40	100	10 11.02	12,86 28,356	-
30-3-5	-731303	0 - 250 0 - 10	500 20	180 - 340 7 1/16 - 13 3/8	27 1 1/16	250 184.40	100	10 11.02	14,385 31,719	-

SERIES 30-CLASSIC-B 3-JAW UNIVERSAL PULLER WITH ADJUSTABLE JAWS AND HYDRAULIC SPINDLE



Technical attributes

The 2-jaw universal puller with adjustable jaws and hydraulic spindle is used for particularly safe pulling of extremely stuck bearings, gears, and discs in all common sizes for crafts, workshops, and industry. The hydraulic spindle achieves an average pulling force of up to 12 t. This allows for the loosening of any component that sits on a shaft and is freely accessible from the outside. For pulling operations with a pulling force of up to 10 t and/or in confined spaces, the mechanical spindle can be used. The 3-jaw design guarantees an even load distribution, providing particularly secure hold on the component being pulled.

Benefits

- The screw connection enables easy loosening and particularly tight fastening of the jaws with an allen key.
- 3-jaw ensures an even distribution of force and allows for greater pulling forces
- Hydraulic spindle ensures easy and controlled removal of particularly tight-fitting parts with minimal effort.
- In limited space conditions that require direct access to the component, the mechanical spindle can be used.

#	4021176	\Box	[†]		P	P	Max. tensile force	Max. tractive force	i	Included in the set
	EAN	mm/inch	mm/inch	mm/inch	Nm/ft lb	Nm	kN	t/US t. sh.	kg/lb	
30-2-B	-886317	0 - 160 0 - 6 5/16	150 5 7/8	100 - 220 3 15/16 - 8 11/16	15 11.06	12	100	10 11.02	5,48 12,083	-
30-20-B	-886348	0 - 200 0 - 7 7/8	150 5 7/8	100 - 260 3 15/16 - 10 1/4	15 11.06	12	100	10 11.02	5,695 12,557	K-2030-20-B
30-3-B	-886393	0 - 250 0 - 9 13/16	200 7 7/8	180 - 340 7 1/16 - 13 3/8	20 14.75	15	120	12 13.23	11,45 25,247	-
30-30-B	-303104	0 - 375 0 - 14 3/4	200 7 7/8	180 - 440 7 1/16 - 17 5/16	45 33.19	45	150	15 16.53	11,1 24,476	-
30-2-3-B	-886300	5 - 160 3/16 - 6 5/16	300 11 13/16	100 - 220 3 15/16 - 8 11/16	15 11.06	12	100	10 11.02	5,6 12,348	-
30-20-3-B	-886331	5 - 200 3/16 - 7 7/8	300 11 13/16	100 - 260 3 15/16 - 10 1/4	15 11.06	12	100	10 11.02	7,38 16,273	K-2030-20-B
30-3-3-B	-886362	0 - 250 0 - 9 13/16	300 11 13/16	180 - 340 7 1/16 - 13 3/8	20 14.75	15	120	12 13.23	10,8 23,814	-
30-3-4-B	-886379	0 - 250 0 - 9 13/16	400 15 3/4	180 - 340 7 1/16 - 13 3/8	20 14.75	15	120	12 13.23	14,73 32,480	-
30-3-5-B	-886386	0 - 250 0 - 9 13/16	500 19 11/16	180 - 340 7 1/16 - 13 3/8	20 14.75	15	120	12 13.23	16,41 36,184	-

SERIES 30-P 3-JAW UNIVERSAL PULLER SET



Technical attributes

The 3-jaw universal puller with adjustable jaws is used for safely removing bearings, gears, and discs in all common sizes for crafts, workshops, and industry. With its three pairs of jaws in different lengths, various combinations and depths of pull-out processes are possible. This allows any component seated on a shaft and accessible from the outside to be removed. The 3-jaw design guarantees even load distribution and thus a particularly secure grip on the part being removed.

Benefits

- Screw connection enables easy loosening and particularly tight fastening of the jaws with an allen key
- 3-jaw provides an even distribution of force and allows for greater pulling forces.
- Application also for eccentric components through freely movable, sliding puller jaws on the crossbar.
- Hexagonal profile on the crossbar for secure counterholding

#	4021176	\Box	ψl		SW ⊷	P	Max. tensile force	Max. tractive force		Included in the set
	EAN	mm/inch	mm/inch	mm/inch	mm/inch	Nm/ft lb	kN	t/US t. sh.	kg/lb	
30-10-P3	-111136	0 - 130 0 - 5 1/8	350 13 3/4	70 - 180 2 3/4 - 7 1/16	17 11/16	80 59.01	60	6 6.61	5,335 11,764	K-2030-10
30-20-P2	-111150	5 - 200 3/16 - 7 7/8	300 11 13/16	100 - 260 3 15/16 - 10 1/4	22 7/8	150 110.64	70	7 7.72	7,635 16,835	K-2030-20, K-2030-20-B
30-3-P3	-111174	0 - 250 0 - 9 13/16	400 15 3/4	180 - 340 7 1/16 - 13 3/8	27 1 1/16	250 184.40	100	10 11.02	23,86 52,611	-

SERIES 30-S 3-JAW UNIVERSAL PULLER WITH NARROW JAWS



Technical attributes

The 3-jaw universal puller with narrow jaws is used for safely removing bearings, gears, and discs in all common sizes for craft, workshop, and industry. It allows for the loosening of any component that sits on a shaft and is freely accessible from the outside. The narrow jaws ensure that even tight and poorly accessible spaces can be reached. The 3-jaw design guarantees an even load distribution and thus a particularly secure hold on the part being pulled.

Benefits

- Narrow puller jaws grip optimally in tight and hard-to-reach areas.
- 3-jaw provides an even distribution of force and allows for greater pulling forces
- Screw connection allows easy loosening and very tight tightening of the jaws with an allen key
- Application also for eccentric components through freely movable, sliding jaws on the crossbar.

#	4021176	\Box	ψļ		SW 	P	Max. tensile force	Max. tractive force	i	Included in the set
	EAN	mm/inch	mm/inch	mm/inch	mm/inch	Nm/ft lb	kN	t/US t. sh.	kg/lb	
30-1-S	-727771	8 - 90 5/16 - 3 5/8	100 4	70 - 140 2 3/4 - 5 1/2	17 11/16	40 29.50	30	3 3.31	1,335 2,944	-
30-10-S	-728198	8 - 130 5/16 - 5	100 4	70 - 180 2 3/4 - 7 1/16	17 11/16	40 29.50	30	3 3.31	1,52 3,352	K-2030-10-S
30-2-S	-727856	16 - 160 5/8 - 6	150 6	100 - 220 3 15/16 - 8 11/16	22 7/8	120 88.51	50	5 5.51	3,78 8,335	-
30-20-S	-727931	16 - 200 5/8 - 8	150 6	100 - 260 3 15/16 - 10 1/4	22 7/8	120 88.51	50	5 5.51	4,08 8,996	K-2030-20-S
30-3-S	-728013	2 - 250 1/16 - 10	200 8	180 - 340 7 1/16 - 13 3/8	27 1 1/16	390 287.66	135	13.5 14.88	9,365 20,650	-

SERIES 30-SP 3-JAW UNIVERSAL PULLER WITH NARROW JAWS IN SET



Technical attributes

The 3-jaw universal puller with narrow, adjustable jaws is used for safely pulling bearings, gears, and discs. The inclusion of three pairs of jaws in various lengths allows for pulling operations with different combinations and depths. This makes it possible to release any component that sits on a shaft and is freely accessible from the outside. The narrow jaws ensure that even tight and hard-to-reach spaces are accessible. The 3-jaw design guarantees an even load distribution and thus a particularly secure grip on the part being pulled.

Benefits

- The extremely slim design of the jaws optimally engages in extremely tight and hard-to-reach spots.
- 3-jaw ensures an even distribution of force and allows for greater pulling forces.
- Screw connection allows easy loosening and very tight tightening of the jaws with an allen key
- Application also for eccentric components through freely movable, sliding jaws on the crossbar.

#	4021176		įή		SW 	P	Max. tensile force	Max. Tractive force		Included in the set
	EAN	mm/inch	mm/inch	mm/inch	mm/inch	Nm/ft lb	kN	t/US t. sh.	kg/lb	
30-10-SP	-463839	8 - 130 5/16 - 5 1/8	350 13 3/4	70 - 180 2 3/4 - 7 1/16	17 11/16	40 29.50	30	3 3.31	5,11 11,268	K-2030-10-S
30-20-SP	-728273	11 - 200 7/16 - 7 7/8	300 11 13/16	100 - 260 3 15/16 - 10 1/4	22 7/8	120 88.51	50	5 5.51	7,66 16,890	K-2030-20-S
30-3-SP	-728358	2 - 250 1/16 - 9 13/16	400 15 3/4	180 - 340 7 1/16 - 13 3/8	27 1 1/16	220 162.27	70	7 7.72	23,67 52,192	-

SERIES 30-S-T 3-JAW UNIVERSAL PULLER WITH EXTREMELY NARROW JAWS



The 3-jaw universal puller with extremely narrow jaws and trapezoidal support surface at the claw is used for securely pulling gear wheels, bearings, sprockets, synchronizers, and similar components. This allows for the loosening of any component mounted on a shaft that is freely accessible from the outside. The special design of the jaws ensures that even very tight and hard-to-reach spaces can be accessed. The 3-jaw design guarantees a uniform load distribution and thus a particularly secure grip on the part being pulled.

Benefits

- The extremely slim design of the jaws is optimal for tight and hard-toreach places.
- 3-jaw provides an even distribution of force and allows for greater pulling forces.
- The screw connection allows easy loosening and particularly tight fastening of the jaws with an allen key.
- Application also for eccentric components through freely movable, sliding jaws on the crossbar.

Technical attributes

#	4021176		įή		SW ⊷	P	Max. tensile force	Max. tractive force	i	Included in the set
	EAN	mm/inch	mm/inch	mm/inch	mm/inch	Nm/ft lb	kN	t/US t. sh.	kg/lb	
30-1-S-T	-321689	13 - 90 1/2 - 3 9/16	100 3 15/16	70 - 140 2 3/4 - 5 1/2	17 11/16	40 29.50	30	3 3.31	1,335 2,944	-
30-10-S-T	-321696	13 - 130 1/2 - 5 1/8	100 3 15/16	70 - 180 2 3/4 - 7 1/16	17 11/16	40 29.50	30	3 3.31	1,475 3,252	K-2030-10-S-T

SERIES 30-SP-T 3-JAW UNIVERSAL PULLER WITH EXTREMELY NARROW JAWS IN SET



The 3-jaw universal puller with extremely narrow, adjustable jaws and trapezoidal support surface on the claw is used for safely pulling gear wheels, bearings, pinions, synchronizer bodies, and similar components. Equipped with three pairs of jaws in different lengths, it enables pulling operations with various combinations and depths. This allows for the removal of any component that is on a shaft and freely accessible from the outside. The extremely narrow jaws ensure that even very tight and hard-to-reach spaces can be accessed. The 3-jaw design guarantees an even load distribution, providing a particularly secure grip on the part being pulled.

Benefits

- The extremely slim design of the puller jaws grips optimally in tight and hard-to-reach places.
- 3-jaw ensures an even distribution of force and allows for greater pulling forces.
- Screw connection allows easy loosening and very tight tightening of the jaws with an allen key
- Application also for eccentric components through freely movable, sliding jaws on the crossbar.

#	4021176				SW ⊷	P	Max. tensile force	Max. tractive force	i	Included in the set
	EAN	mm/inch	mm/inch	mm/inch	mm/inch	Nm/ft lb	kN	t/US t. sh.	kg/lb	
30-10-SP-T	-770272	13 - 130 1/2 - 5 1/8	350 13 3/4	70 - 180 2 3/4 - 7 1/16	17 11/16	40 29.50	30	3 3.31	5,055 11,146	K-2030-10-S-T

SERIES 30+ 3-JAW UNIVERSAL PULLER WITH QUICK-ADJUSTABLE EXTRACTOR



Technical attributes

The 3-jaw universal puller with quickly adjustable jaws is used for pulling bearings, gears, and discs in all common sizes for craft, workshop, and industry. It allows for loosening any component that sits on a shaft and is freely accessible from the outside. Equipped with robust standard jaws and practical hand knobs, the puller all-rounder ensures a particularly safe, user-friendly, and non-destructive disassembly both for external extraction and internal extraction. The 3-jaw design guarantees an even load distribution and thus a particularly secure grip on the part being pulled.

Benefits

- Simple manual release of the jaws using hand knobs (Quick Adjust Technology)
- 3-jaw provides an even distribution of force and allows for greater pulling forces.
- Application also for eccentric components through freely movable, sliding puller jaws on the crossbar.

#	4021176	\Box	ij		SW	P	Max. tensile force	Max. tractive force	i	Included in the set
	EAN	mm/inch	mm/inch	mm/inch	mm/inch	Nm/ft lb	kN	t/US t. sh.	kg/lb	
30-1+	-731488	0 - 90 0 - 3 5/8	100 4	70 - 140 2 3/4 - 5 1/2	17 11/16	80 59.01	60	6 6.61	1,46 3,219	K-2030-1+A
30-10+	-731556	0 - 130 0 - 5	100 4	70 - 180 2 3/4 - 7 1/16	17 11/16	80 59.01	60	6 6.61	1,6 3,528	K-2030-10+
30-2+	-731631	0 - 160 0 - 6	150 6	100 - 220 3 15/16 - 8 11/16	22 7/8	150 110.64	70	7 7.72	3,8 8,379	-
30-20+	-731716	0 - 200 0 - 8	150 6	100 - 260 3 15/16 - 10 1/4	22 7/8	150 110.64	70	7 7.72	4,8 10,584	K-2030-20+S, K- 2030-20+S+B
30-3+	-731891	0 - 250 0 - 10	200 8	180 - 340 7 1/16 - 13 3/8	27 1 1/16	250 184.40	100	10 11.02	8,8 19,404	-
30-30+	-303333	105 - 375 4 1/8 - 14 3/4	200 7 7/8	180 - 440 7 1/16 - 17 5/16	36 1 7/16	250 184.40	150	15 16.53	1,635 3,605	-

SERIES 30+B 3-JAW UNIVERSAL PULLER WITH QUICKLY ADJUSTABLE EXTRACTOR JAWS AND HYDRAULIC SPINDLE



Technical attributes

The 3-jaw universal puller with quickly adjustable jaws and hydraulic spindle is used for particularly safe and user-friendly extraction of extremely stuck bearings, gears, and disks in all common sizes for trade, workshop, and industry. The hydraulic spindle achieves an average pulling force of up to 15 t. This allows for the loosening of any component that sits on a shaft and is freely accessible from the outside. For extraction operations with pulling forces of up to 10 t and/or in confined spaces, the mechanical spindle can be used. The 3-jaw design ensures even load distribution and thus a particularly secure grip on the part to be extracted.

Benefits

- Simple manual release of the jaws using hand knobs (Quick Adjust Technology)
- Fat hydraulic spindle guarantees an easy and controlled removal of particularly stubborn parts with little effort.
- In limited space conditions that require direct access to the component, the mechanical spindle can be used.

#	4021176		ij		P	Max. tensile force	Max. tractive force	i	Included in the set
	EAN	mm/inch	mm/inch	mm/inch	Nm/ft lb	kN	t/US t. sh.	kg/lb	
30-2+B	-886294	0 - 160 0 - 6 5/16	150 5 7/8	100 - 220 3 15/16 - 8 11/16	15 11.06	100	10 11.02	5,345 11,786	-
30-20+B	-886324	0 - 200 0 - 7 7/8	150 5 7/8	100 - 260 3 15/16 - 10 1/4	15 11.06	100	10 11.02	5,64 12,436	K-2030-20+S+B
30-3+B	-886355	0 - 250 0 - 9 13/16	200 7 7/8	180 - 340 7 1/16 - 13 3/8	20 14.75	120	12 13.23	11,43 25,203	-
30-30+B	-303067	0 - 375 0 - 14 3/4	200 7 7/8	180 - 440 7 1/16 - 17 5/16	45 33.19	150	15 16.53	19 41,895	-

SERIES 30+S 3-JAW UNIVERSAL PULLER WITH NARROW, QUICK-ADJUSTABLE JAWS



Technical attributes

The 3-jaw universal puller with narrow, quick-adjustable jaws is used for the safe and user-friendly extraction of bearings, gears, and disks in all common sizes for crafts, workshops, and industry. It allows for the removal of any component that sits on a shaft and is freely accessible from the outside. The narrow jaws ensure that even tight and difficult-to-access spaces can be reached. The 3-jaw design guarantees even load distribution and thus a particularly secure grip on the part being removed.

Benefits

- Narrow puller jaws grip optimally in tight and hard-to-reach places.
- 3-jaw provides an even distribution of force and allows for greater pulling forces
- Simple manual release of the puller jaws via hand knob (Quick Adjust Technology)
- Application also for eccentric components through freely movable, sliding jaws on the crossbar.

#	4021176		įήį		SW 	P	Max. tensile force	Max. tractive force	i	Included in the set
	EAN	mm/inch	mm/inch	mm/inch	mm/inch	Nm/ft lb	kN	t/US t. sh.	kg/lb	
30-1+5	-756894	8 - 90 5/16 - 3 5/8	100 4	70 - 140 2 3/4 - 5 1/2	17 11/16	40 29.50	30	3 3.31	1,46 3,219	KS-2030-1-193xS, K-2030-1+A, KS-2030-1-193+S
30-10+S	-756979	8 - 130 5/16 - 5	100 4	70 - 180 2 3/4 - 7 1/16	17 11/16	40 29.50	30	3 3.31	1,54 3,396	K-2030-10+S
30-2+S	-757051	16 - 160 5/8 - 6	150 6	100 - 220 3 15/16 - 8 11/16	22 7/8	120 88.51	50	5 5.51	3,785 8,346	-
30-20+S	-757136	16 - 200 5/8 - 8	150 6	100 - 260 3 15/16 - 10 1/4	22 7/8	120 88.51	50	5 5.51	4,12 9,085	K-2030-20+S, K-2030-20+S+B
30-3+\$	-757211	2 - 250 1/16 - 10	200 8	180 - 340 7 1/16 - 13 3/8	27 1 1/16	390 287.66	135	13.5 14.88	9,3 20,507	-

SERIES 30+S-T 3-JAW UNIVERSAL PULLER WITH EXTREMELY NARROW, QUICKLY ADJUSTABLE JAWS



The 3-jaw universal puller with extremely narrow, quickly adjustable jaws and trapezoidal support surfaces at the claw is used for the safe and user-friendly removal of gearbox gears, bearings, pinions, synchronizers, and similar components. This allows any component that is seated on a shaft and is freely accessible from the outside to be removed. The trapezoidal support surfaces of the claw ensure that very tight and hard-to-reach gaps are also accessible. The 3-jaw design guarantees an even load distribution and thus a particularly secure grip on the part being removed.

Benefits

- The extremely slim design of the jaws optimally engages in extremely tight and hard-to-reach spots
- 3-jaw provides an even distribution of forces and enables greater pulling forces.
- Simple manual release of the jaws using hand knobs (Quick Adjust Technology)
- Application also for eccentric components through freely movable, sliding jaws on the crossbar.

#	4021176	\bigoplus	ij		SW 	P	Max. tensile force	Max. tractive force	i	Included in the set
	EAN	mm/inch	mm/inch	mm/inch	mm/inch	Nm/ft lb	kN	t/US t. sh.	kg/lb	
30-1+S-T	-321320	13 - 90 1/2 - 3 9/16	100 3 15/16	70 - 140 2 3/4 - 5 1/2	17 11/16	40 29.50	30	3 3.31	1,345 2,966	-
30-10+S-T	-321337	13 - 130 1/2 - 5 1/8	100 3 15/16	70 - 180 2 3/4 - 7 1/16	17 11/16	40 29.50	30	3 3.31	1,535 3,385	K-2030-10+S-T

SERIES 30X 3-JAW UNIVERSAL PULLER WITH QUICK-ADJUSTABLE EXTRACTOR JAWS



Technical attributes

The 3-jaw universal puller with quickly adjustable jaws is used for pulling bearings, gears, and discs in all common sizes for craft, workshop, and industry. It allows for the loosening of any component that sits on a shaft and is freely accessible from the outside. Equipped with robust standard jaws and hand knobs for maximum user comfort, the puller all-rounder ensures particularly safe, user-friendly, and non-destructive disassembly both for external extraction and internal extraction. The 3-jaw design guarantees an even load distribution and thus particularly secure grip on the part being pulled.

Benefits

- Simple, manual solution of the Jaw clamps using hand knobs (Quick Adjust Technology)
- 3-jaw ensures an even distribution of force and allows for greater pulling forces.

#	 				SW ⊷	P	Max. tensile force	Max. tractive force		Included in the set
	EAN	mm/inch	mm/inch	mm/inch	mm/inch	Nm/ft lb	kN	t/US t. sh.	kg/lb	
30-1x NEW	-041549	0 - 90 0 - 3 9/16	100 3 15/16	70 - 140 2 3/4 - 5 1/2	17 11/16	80 59.01	80	8 8.82	1,56 3,440	-
30-10x NEW	-041532	0 - 130 0 - 5 1/8	100 3 15/16	70 - 180 2 3/4 - 7 1/16	17 11/16	80 59.01	80	8 8.82	1,715 3,782	-
30-2x NEW	-041563	0 - 160 0 - 6 5/16	150 5 7/8	100 - 220 3 15/16 - 8 11/16	22 7/8	150 110.64	90	9 9.92	4,025 8,875	-
30-20x NEW	-041556	0 - 200 0 - 7 7/8	150 5 7/8	100 - 260 3 15/16 - 10 1/4	22 7/8	150 110.64	90	9 9.92	4,44 9,790	K-2030-20xS
30-3x NEW	-041587	0 - 250 0 - 9 13/16	200 7 7/8	180 - 340 7 1/16 - 13 3/8	27 1 1/16	250 184.40	120	12 13.23	8,8 19,404	-
30-30x NEW	-041570	105 - 375 4 1/8 - 14 3/4	200 7 7/8	180 - 440 7 1/16 - 17 5/16	36 1 7/16	250 184.40	170	17 18.74	17,43 38,433	-

SERIES 11-A EXTRA POWERFUL, 3-JAW UNIVERSAL PULLER



Technical attributes

The extra-strong 3-jaw universal puller is used for pulling heavy bearings, gears, and discs in all common sizes for crafts, workshops, and industry. It allows you to loosen any component that is mounted on a shaft and is freely accessible from the outside. Equipped with robust and adjustable standard jaws, the solid construction of the puller ensures powerful, non-destructive disassembly during both external extraction and internal extraction. The 3-jaw design guarantees even load distribution and thus a particularly secure grip on the part to be pulled.

Benefits

- Screw connection allows easy loosening and particularly tight fastening of the jaws with an allen key
- Application also for eccentric components through freely movable, sliding puller jaws on the crossbar.
- Variable adjustment to any spread between 105 mm 650 mm

-11-	4021176	\Box			SW	P	Max. tensile force	Max. tractive force	i
#	EAN	mm/inch	mm/inch	mm/inch	mm/inch	Nm/ft lb	kN	t/US t. sh.	kg/lb
11-0-A	-005886	105 - 375 4 1/8 - 14 3/4	200 7 7/8	220 - 500 8 11/16 - 19 11/16	36 1 7/16	500 368.80	150	15 16.53	17,99 39,668
11-0-A3	-729263	105 - 375 4 1/8 - 14 3/4	300 11 13/16	220 - 500 8 11/16 - 19 11/16	36 1 7/16	500 368.80	150	15 16.53	19,5 42,998
11-0-A4	-729348	105 - 375 4 1/8 - 14 3/4	400 15 3/4	220 - 500 8 11/16 - 19 11/16	36 1 7/16	500 368.80	150	15 16.53	18,6 41,013
11-0-A5	-729423	105 - 375 4 1/8 - 14 3/4	500 19 11/16	220 - 500 8 11/16 - 19 11/16	36 1 7/16	500 368.80	150	15 16.53	22,78 50,230
11-1-A	-075421	125 - 520 4 15/16 - 20 1/2	200 7 7/8	280 - 600 11 1/32 - 23 5/8	41 1 5/8	650 479.44	200	20 22.05	22,72 50,098
11-1-A3	-729591	125 - 520 4 15/16 - 20 1/2	300 11 13/16	280 - 600 11 1/32 - 23 5/8	41 1 5/8	650 479.44	200	20 22.05	24,34 53,670
11-1-A4	-729676	125 - 520 4 15/16 - 20 1/2	400 15 3/4	280 - 600 11 1/32 - 23 5/8	41 1 5/8	650 479.44	200	20 22.05	28 61,740
11-1-A5	-729751	125 - 520 4 15/16 - 20 1/2	500 19 11/16	280 - 600 11 1/32 - 23 5/8	41 1 5/8	650 479.44	200	20 22.05	27,57 60,792
11-2-A	-006203	155 - 650 6 1/8 - 25 9/16	200 7 7/8	290 - 740 11 7/16 - 29 1/8	41 1 5/8	650 479.44	200	20 22.05	25 55,125
11-2-A3	-706158	155 - 650 6 1/8 - 25 9/16	300 11 13/16	290 - 740 11 7/16 - 29 1/8	41 1 5/8	650 479.44	200	20 22.05	26,25 57,881
11-2-A4	-729836	155 - 650 6 1/8 - 25 9/16	400 15 3/4	290 - 740 11 7/16 - 29 1/8	41 1 5/8	650 479.44	200	20 22.05	26 57,330
11-2-A5	-729911	155 - 650 6 1/8 - 25 9/16	500 19 11/16	290 - 740 11 7/16 - 29 1/8	41 1 5/8	650 479.44	200	20 22.05	27,6 60,858

SERIES 11-AV EXTRA STRONG, 3-JAW UNIVERSAL PULLER WITH ADJUSTABLE REACH



The extra robust 3-jaw universal puller with adjustable reach is used for removing heavy bearings, gears, and discs in all common sizes for craft, workshop, and industry. It allows for loosening any component that sits on a shaft and is freely accessible from the outside. The solid construction of the puller adapts to any pulling situation with its individually adjustable spread and reach, guaranteeing powerful, damage-free disassembly both for external extraction and internal extraction. The 3-jaw design ensures even weight distribution and thus a particularly secure grip on the part to be pulled.

Benefits

- Screw connection enables easy loosening and particularly tight fastening of the jaws with an allen key
- 3-jaw provides an even distribution of force and allows for greater pulling forces.
- Application also for eccentric components via freely movable, sliding jaws on the traverse.
- Variable adjustment to any spread between 37 mm 650 mm and reach depth between 300 mm – 450 mm

Technical attributes

#	4021176	\Box	įή		S₩	P	Max. tensile force	Max. tractive force	i
	EAN	mm/inch	mm/inch	mm/inch	mm/inch	Nm/ft lb	kN	t/US t. sh.	kg/lb
11-0-AV	-730078	37 - 375 1 7/16 - 15	450 12-20	220 - 500 8 11/16 - 19 11/16	36 1 7/16	500 368.80	150	15 16.53	23,1 50,936
11-1-AV	-730153	57 - 520 2 1/4 - 21	450 12-20	280 - 600 11 1/32 - 23 5/8	41 1 5/8	650 479.44	200	20 22.05	3,39 7,475
11-2-AV	-730238	87 - 650 3 7/16 - 26	450 12-20	290 - 740 11 7/16 - 29 1/8	41 1 5/8	650 479.44	200	20 22.05	34 74,970

SERIES 11-B EXTRA POWERFUL, 3-JAW UNIVERSAL PULLER WITH HYDRAULIC SPINDLE



The extra strong, 3-jaw universal pullers with hydraulic spindle are used for pulling off heavy, particularly stubborn bearings, gears, and discs in all common sizes for craft, workshop, and industry. The hydraulic spindle achieves an average pulling force of up to 20 t. This allows for the loosening of any component that sits on a shaft and is freely accessible from the outside. Equipped with robust standard jaws, the massive construction of series 11-B ensures powerful, non-destructive disassembly during both external extraction and internal pulling. The 3-jaw design guarantees even load distribution and therefore a particularly secure grip on the part being pulled.

Benefits

- Screw connection enables easy loosening and particularly tight fastening of the jaws with an allen key
- The hydraulic spindle ensures an easy and controlled withdrawal of particularly stubborn parts with minimal effort.
- 3-jaw provides an even distribution of force and allows for greater pulling forces.
- Application also for eccentric components through freely movable, sliding puller jaws on the crossbar.

#	4021176	\Box	\Box		SW 	P	Max. tensile force	Max. tractive force	
	EAN	mm/inch	mm/inch	mm/inch	mm/inch	Nm/ft lb	kN	t/US t. sh.	kg/lb
11-0-B	-075346	105 - 375 4 1/8 - 14 3/4	200 7 7/8	220 - 500 8 11/16 - 19 11/16	17 11/16	45 33.19	150	15 16.53	22,7 50,054
11-1-B	-006128	125 - 520 4 15/16 - 20 1/2	200 7 7/8	280 - 600 11 1/32 - 23 5/8	17 11/16	30 22.13	200	20 22.05	29,24 64,474
11-2-B	-006388	155 - 650 6 1/8 - 25 9/16	200 7 7/8	290 - 740 11 7/16 - 29 1/8	17 11/16	30 22.13	200	20 22.05	29,5 65,048
11-3-B	-706073	155 - 650 6 1/8 - 25 9/16	300 11 13/16	290 - 740 11 7/16 - 29 1/8	17 11/16	30 22.13	200	20 22.05	32,54 71,751

SERIES 11-BV EXTRA STRONG 3-JAW UNIVERSAL PULLER WITH ADJUSTABLE REACH AND HYDRAULIC SPINDLE



The extra-strength, 3-jaw universal pullers with adjustable reach depth and hydraulic spindle are used for pulling off heavy, particularly stuck bearings, gears, and discs in all common sizes for crafts, workshops, and industry. The hydraulic spindle achieves an average pulling force of up to 20 tons. This allows for the release of any component that sits on a shaft and is accessible from the outside. The robust design of the puller adapts to any pulling situation through its individually adjustable span and reach depth and guarantees powerful, damage-free disassembly both in external extraction and internal extraction. The 3-jaw design ensures even load distribution and thus a particularly secure hold on the part being pulled.

Benefits

- The screw connection allows for easy loosening and particularly tight fastening of the jaws with an allen key
- The hydraulic spindle guarantees easy and controlled removal of particularly tightly fitted parts with minimal effort.
- 3-jaw ensures an even force distribution and allows for greater pulling forces.
- Application also for eccentric components through freely movable, sliding puller jaws on the crossbar.

Technical attributes

#	4021176	\Box			SW 	P	Max. tensile force	Max. tractive force	
	EAN	mm/inch	mm/inch	mm/inch	mm/inch	Nm/ft lb	kN	t/US t. sh.	kg/lb
11-0-BV	-730313	37 - 375 1 7/16 - 14 3/4	450 17 11/16	220 - 500 8 11/16 - 19 11/16	17 11/16	45 33.19	150	15 16.53	31,19 68,774
11-1-BV	-730498	57 - 520 2 1/4 - 20 1/2	450 17 11/16	280 - 600 11 1/32 - 23 5/8	17 11/16	30 22.13	200	20 22.05	33,15 73,096
11-2-BV	-730566	87 - 650 3 7/16 - 25 9/16	450 17 11/16	290 - 740 11 7/16 - 29 1/8	17 11/16	30 22.13	200	20 22.05	35 77,175

219-1 CLAMP FOR 2-JAW PULLERS



The clamp for 2-jaw pullers is used for stability support during extraction processes with extensions. This ensures that the extractor jaws are pressed especially firmly against the part being pulled to prevent slipping of the jaws.

Benefits

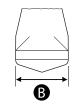
· Maximum stability support during pulling

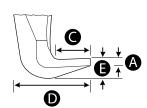


#		<u> </u>	SW		COMBINERAR
	EAN	mm/inch	mm/inch	kg/lb	
219-1	-777776	40 - 190 1 9/16 - 7 1/2	8 5/16	0,77 1,698	20-1, 20-10

SERIES 0-E 1 JAWS (SINGLE)





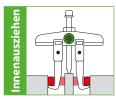


The single standard puller jaws are suitable for universal pullers. The robust design of the jaws ensures particularly safe pulling of bearings, gears and discs.

Benefits

• With the free-moving, sliding puller jaws on the crossbar, eccentric components can also be removed.



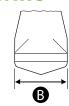


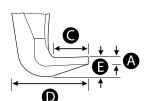
Technical attributes

#	4021176	Įή	L ←──	I D			*		i
	EAN	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	kg/lb
1-90-E	-001253	100 4	132 5 3/16	10 3/8	31 1 1/4	20 13/16	15 9/16	3 1/8	0,28 0,617
1-190-E	-001581	200 7 7/8	232 9 1/8	10 3/8	31 1 1/4	20 13/16	15 9/16	3 1/8	0,54 1,191
1-250-E	-001826	250 10	282 11 1/8	10 3/8	31 1 1/4	20 13/16	15 9/16	3 1/8	0,665 1,466
1-400-E	-975646	400 15 3/4	432 17 1/64	10 3/8	31 1 1/4	20 13/16	15 9/16	3 1/8	0,6 1,323
2-150-E	-002328	150 5 7/8	193 7 5/8	9 3/8	40 1 9/16	24 15/16	18 11/16	4 3/16	0,6 1,323
2-300-E	-002656	300 11 13/16	343 13 1/2	9 3/8	40 1 9/16	24 15/16	18 11/16	4 3/16	1,175 2,591
3-200-E	-003158	200 7 7/8	255 10 1/32	20 13/16	67 2 5/8	35 1 3/8	37 1 7/16	4 3/16	1,63 3,594
3-250-E	-901225	250 9 13/16	300 11 13/16	20 13/16	67 2 5/8	35 1 3/8	37 1 7/16	4 3/16	2,08 4,586
3-300-E	-003493	300 12	350 13 3/4	20 13/16	67 2 5/8	35 1 3/8	37 1 7/16	4 3/16	2,085 4,597
3-400-E	-003721	400 16	450 17 11/16	20 13/16	67 2 5/8	35 1 3/8	37 1 7/16	4 3/16	2,62 5,777
3-500-E	-004063	500 20	550 21 5/8	20 13/16	67 2 5/8	35 1 3/8	37 1 7/16	4 3/16	3,14 6,924

SERIES 0-P 2 STANDARD JAWS







The pair of two standard jaws is suitable for 2-jaw universal pullers. The robust jaws guarantee a particularly secure removal of bearings, gears, and discs.

Benefits

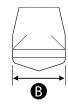
• The movable, sliding jaws on the crossbar allow for the extraction of eccentric components.

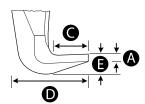
#	4021176		L ←───	I D			⊕ mm	. mm	
	EAN	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	kg/lb
1-90-P	-001338	100 4	132 5 3/16	10 3/8	31 1 1/4	20 13/16	15 9/16	3 1/8	0,555 1,224
1-190-P	-001666	200 8	232 9 1/8	10 3/8	31 1 1/4	20 13/16	15 9/16	3 1/8	1,12 2,470
1-250-P	-001901	250 10	282 11 1/8	10 3/8	31 1 1/4	20 13/16	15 9/16	3 1/8	1,36 2,999
1-400-P	-975660	400 15 3/4	432 17 1/64	10 3/8	31 1 1/4	20 13/16	15 9/16	3 1/8	2,12 4,675
2-150-P	-002403	150 6	193 7 5/8	9 3/8	40 1 9/16	24 15/16	18 11/16	4 3/16	1,24 2,734
2-300-P	-002731	300 12	343 13 1/2	9 3/8	40 1 9/16	24 15/16	18 11/16	4 3/16	2,4 5,292
3-200-P	-003233	200 8	255 10 1/32	20 13/16	67 2 5/8	35 1 3/8	37 1 7/16	4 3/16	3,27 7,210
3-250-P	-901232	250 9 13/16	300 11 13/16	20 13/16	67 2 5/8	35 1 3/8	37 1 7/16	4 3/16	3,725 8,214
3-300-P	-003561	300 12	350 13 3/4	20 13/16	67 2 5/8	35 1 3/8	37 1 7/16	4 3/16	4,5 9,923
3-400-P	-003806	400 16	450 17 11/16	20 13/16	67 2 5/8	35 1 3/8	37 1 7/16	4 3/16	5,33 11,753
3-500-P	-004148	500 20	550 21 5/8	20 13/16	67 2 5/8	35 1 3/8	37 1 7/16	4 3/16	6,7 14,774

SERIES 0-S STANDARD PULLER JAWS (SET)

The set of three standard jaws is suitable for 3-jaw universal pullers. The robust jaws guarantee particularly safe removal of bearings, gears, and discs.







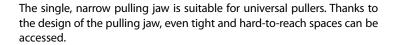
Benefits

• The movable, sliding jaws on the crossbar allow for the removal of eccentric components.

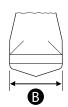
Technical attributes

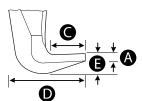
#	4021176		L ←──	Į.				0	i
	EAN	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	kg/lb
1-90-S	-001413	100	132	10	31	20	15	3	0,835
		4	5 3/16	3/8	1 1/4	13/16	9/16	1/8	1,841
1-190-S	-001741	200	232	10	31	20	15	3	1,685
		8	9 1/8	3/8	1 1/4	13/16	9/16	1/8	3,715
1-250-S	-002083	250	282	10	31	20	15	3	2,04
		10	11 1/8	3/8	1 1/4	13/16	9/16	1/8	4,498
1-400-S	-975684	400	432	10	31	20	15	3	3,48
		15 3/4	17 1/64	3/8	1 1/4	13/16	9/16	1/8	7,673
2-150-S	-002571	150	193	9	40	24	18	4	1,84
		6	7 5/8	3/8	1 9/16	15/16	11/16	3/16	4,057
2-300-S	-002816	300	343	9	40	24	18	4	3,78
		12	13 1/2	3/8	1 9/16	15/16	11/16	3/16	8,335
3-200-S	-003318	200	255	20	67	35	37	4	3,28
		8	10 1/32	13/16	2 5/8	1 3/8	1 7/16	3/16	7,232
3-250-S	-901249	250	300	20	67	35	37	4	5,695
		9 13/16	11 13/16	13/16	2 5/8	1 3/8	1 7/16	3/16	12,557
3-300-S	-003646	300	350	20	67	35	37	4	6,46
		12	13 3/4	13/16	2 5/8	1 3/8	1 7/16	3/16	14,244
3-400-S	-003981	400	450	20	67	35	37	4	8,5
		16	17 11/16	13/16	2 5/8	1 3/8	1 7/16	3/16	18,743
3-500-S	-004223	500	550	20	67	35	37	4	9,89
		20	21 5/8	13/16	2 5/8	1 3/8	1 7/16	3/16	21,807

SERIES 1-E 1 NARROW PULLER JAWS (SINGLE)









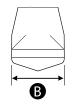
Benefits

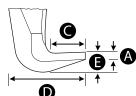
• With the movable puller jaws sliding on the crossbar, even eccentric components can be removed.

#	4 021176	T I	L ←→		J		0	0	i
	EAN	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	kg/lb
1-91-E	-340253	100 4	127 5	3 1/8	14 9/16	30 1 3/16	7 1/4	3 1/8	0,245 0,540
1-191-E	-461101	200 7 7/8	227 8 15/16	3 1/8	14 9/16	30 1 3/16	7 1/4	3 1/8	0,53 1,169
1-251-E	-461361	250 10	277 10 7/8	3 1/8	14 9/16	30 1 3/16	7 1/4	3 1/8	0,645 1,422
1-401-E	-984990	400 16	427 16 13/16	3 1/8	14 9/16	30 1 3/16	7 1/4	3 1/8	0,62 1,367
2-151-E	-702846	150 5 7/8	180 7 1/16	4 3/16	19 3/4	32 1 1/4	8 5/16	4 3/16	0,58 1,279
2-301-E	-703003	300 11 13/16	330 12 1	4 3/16	19 3/4	32 1 1/4	8 5/16	4 3/16	1,24 2,734
3-201-E	-726453	200 8	244 9 5/8	6,5 1/4	52 2 1/16	35 1 3/8	17 11/16	6,5 1/4	1,8 3,969
3-301-E	-726606	300 12	340 13 3/8	6,5 1/4	52 2 1/16	35 1 3/8	17 11/16	6,5 1/4	0 0,000
3-401-E	-726866	400 16	440 17 5/16	6,5 1/4	52 2 1/16	35 1 3/8	17 11/16	6,5 1/4	2,95 6,505
3-501-E	-727023	500 20	540 21 1/4	6,5 1/4	52 2 1/16	35 1 3/8	17 11/16	6,5 1/4	3,035 6,692

SERIES 1-P 2 NARROW PULLER JAWS







The pair of two narrow jaws is suitable for 2-jaw universal pullers. The narrow jaws ensure that even tight and hard-to-reach spaces can be accessed.

Benefits

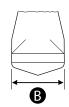
• Through the freely movable, gliding jaws on the crossbar, even eccentric components can be removed.

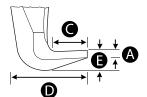
Technical attributes

#	4021176	(†)	L ←—→	O			<u> </u>		i
	EAN	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	kg/lb
1-91-P	-434716	100 4	127 5	3 1/8	14 9/16	30 1 3/16	7 1/4	3 1/8	0,515 1,136
1-191-P	-461286	200 8	227 8 15/16	3 1/8	14 9/16	30 1 3/16	7 1/4	3 1/8	1,75 3,859
1-251-P	-461446	250 10	277 10 7/8	3 1/8	14 9/16	30 1 3/16	7 1/4	3 1/8	1,305 2,878
1-401-P	-985010	400 16	427 16 13/16	3 1/8	14 9/16	30 1 3/16	7 1/4	3 1/8	2,75 6,064
2-151-P	-702921	150 6	186 7 5/16	4 3/16	19 3/4	32 1 1/4	8 5/16	4 3/16	1,25 2,756
2-301-P	-703188	300 12	336 13 1/4	4 3/16	19 3/4	32 1 1/4	8 5/16	4 3/16	2,535 5,590
3-201-P	-726521	200	244 9 5/8	6,5 1/4	52 2 1/16	35 1 3/8	17 11/16	6,5 1/4	3,175 7,001
3-301-P	-726781	300 12	340 13 3/8	6,5 1/4	52 2 1/16	35 1 3/8	17 11/16	6,5 1/4	4,28 9,437
3-401-P	-726941	400 16	440 17 5/16	6,5 1/4	52 2 1/16	35 1 3/8	17/16 17 11/16	6,5 1/4	5,89 12,987
3-501-P	-727108	500 20	540 21 1/4	6,5 1/4	52 2 1/16	35 1 3/8	17 11/16	6,5 1/4	6,555 14,454

SERIES 1-S NARROW PULLER JAWS (SET)







The set of three narrow jaws is suitable for 3-jaw universal pullers. The narrow jaws ensure that even tight and hard-to-reach spaces are accessible

Benefits

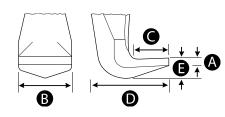
• Through the freely movable jaws gliding on the crossbar, eccentric components can also be pulled off.

#	4021176	\Box	L ←—→	I D			O →		
	EAN	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	kg/lb
1-91-S	-497834	100	127	3	14	30	7	3	0,755
		4	5	1/8	9/16	1 3/16	1/4	1/8	1,665
1-191-S	-497919	200	227	3	14	30	7	3	1,605
		8	8 15/16	1/8	9/16	1 3/16	1/4	1/8	3,539
1-251-S	-498091	250	277	3	14	30	7	3	2,08
		10	10 7/8	1/8	9/16	1 3/16	1/4	1/8	4,586
1-401-S	-985034	400	427	3	14	30	7	3	3,24
		16	16 13/16	1/8	9/16	1 3/16	1/4	1/8	7,144
2-151-S	-728686	150	186	4	19	32	8	4	1,78
		6	7 5/16	3/16	3/4	1 1/4	5/16	3/16	3,925
2-301-S	-728761	300	336	4	19	32	8	4	3,645
		12	13 1/4	3/16	3/4	1 1/4	5/16	3/16	8,037
3-201-S	-728846	200	244	6,5	52	35	17	6,5	5,485
		8	9 5/8	1/4	2 1/16	1 3/8	11/16	1/4	12,094
3-301-S	-728921	300	340	6,5	52	35	17	6,5	6,39
		12	13 3/8	1/4	2 1/16	1 3/8	11/16	1/4	14,090
3-401-S	-729003	400	440	6,5	52	35	17	6,5	7,86
		16	17 5/16	1/4	2 1/16	1 3/8	11/16	1/4	17,331
3-501-S	-729188	500	540	6,5	52	35	17	6,5	10,1
		20	21 1/4	1/4	2 1/16	1 3/8	11/16	1/4	22,271



SERIES 2-E 1 QUICK-ADJUSTABLE JAW HOOK (SINGLE)





The single, quickly adjustable standard jaws are suitable for universal pullers. The robust construction of the jaws guarantees particularly safe and user-friendly removal of bearings, gears, and discs.

Benefits

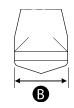
- The freely movable extraction jaws sliding on the crossbar can also be used to extract eccentric components.
- Thanks to the knurling, a tool-free, quick release or relocation of the jaws is enabled.

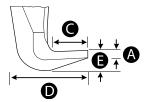
Technical attributes

#	4021176		L	I O					i
	EAN	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	kg/lb
1-92-E	-669101	100	132	10	31	20	15	3	0,28
		3 15/16	5 3/16	3/8	1 1/4	13/16	9/16	1/8	0,617
1-192-E	-975608	200	232	10	31	20	15	3	0,49
		8	9 1/8	3/8	1 1/4	13/16	9/16	1/8	1,080
1-252-E	-975622	250	282	10	31	20	15	3	0,56
		10	11 1/8	3/8	1 1/4	13/16	9/16	1/8	1,235
2-152-E	-669286	150	193	9	40	24	18	4	0,605
		6	7 5/8	3/8	1 9/16	15/16	11/16	3/16	1,334
2-302-E	-733611	300	343	9	40	24	18	4	0
		12	13 1/2	3/8	1 9/16	15/16	11/16	3/16	0,000
3-202-E	-669361	200	255	20	67	35	37	4	1,62
		8	10 1/32	13/16	2 5/8	1 3/8	1 7/16	3/16	3,572
3-302-E	-976148	300	350	20	67	35	37	4	2,1
		12	13 3/4	13/16	2 5/8	1 3/8	1 7/16	3/16	4,631
3-402-E	-976162	400	450	20	67	35	37	4	2,46
		16	17 11/16	13/16	2 5/8	1 3/8	1 7/16	3/16	5,424
3-502-E	-976186	500	550	20	67	35	37	4	4,04
		20	21 5/8	13/16	2 5/8	1 3/8	1 7/16	3/16	8,908

SERIES 2-P QUICK-ADJUSTABLE STANDARD JAWS (PAIR)







The pair of two quick-adjustable standard jaws is suitable for 2-jaw universal pullers. The robust jaws guarantee particularly safe and user-friendly removal of bearings, gears, and disks.

Benefits

- The movable puller jaws that glide on the crossbar allow for the removal of eccentric components as well.
- Through the knurl, a tool-free, quick solution or movement of the jaws is made possible.

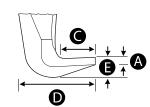
		1	<u> </u>	О	0		О	0	•
#	4021176	ΠŢ	L ← →	, I	₩m ·		₩mm	* mm	
	EAN	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	kg/lb
1-92-P	-732393	100	132	10	31	20	15	3	0,58
		4	5 3/16	3/8	1 1/4	13/16	9/16	1/8	1,279
1-192-P	-973611	200	232	10	31	20	15	3	1,17
		8	9 1/8	3/8	1 1/4	13/16	9/16	1/8	2,580
1-252-P	-973673	250	282	10	31	20	15	3	1,41
		10	11 1/8	3/8	1 1/4	13/16	9/16	1/8	3,109
2-152-P	-973765	150	193	9	40	24	18	4	1,26
		6	7 5/8	3/8	1 9/16	15/16	11/16	3/16	2,778
2-302-P	-973819	300	343	9	40	24	18	4	2,59
		12	13 1/2	3/8	1 9/16	15/16	11/16	3/16	5,711
3-202-P	-732706	200	255	20	67	35	37	4	3,33
		8	10 1/32	13/16	2 5/8	1 3/8	1 7/16	3/16	7,343
3-302-P	-973932	300	350	20	67	35	37	4	4,505
		12	13 3/4	13/16	2 5/8	1 3/8	1 7/16	3/16	9,934
3-402-P	-974014	400	450	20	67	35	37	4	5,505
		16	17 11/16	13/16	2 5/8	1 3/8	1 7/16	3/16	12,139
3-502-P	-974137	500	550	20	67	35	37	4	6,35
		20	21 5/8	13/16	2 5/8	1 3/8	1 7/16	3/16	14,002

SERIES 2-S 3 QUICK-ADJUSTABLE STANDARD JAWS (SET)

The set of three quickly adjustable standard jaws is suitable for 3-jaw universal pullers. The robust jaws guarantee particularly safe and user-friendly removal of bearings, gears, and discs.







Benefits

- Through the freely movable, sliding jaws on the crossbar, even eccentric components can be pulled off.
- Thanks to the knurling, it enables tool-free, quick loosening or moving of the jaws.

Technical attributes

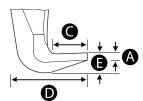
#	4 021176	<u>†</u>	L ←→	I D					i
	EAN	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	kg/lb
1-92-S	-973741	100	132	10	31	20	15	3	0,92
		4	5 3/16	3/8	1 1/4	13/16	9/16	1/8	2,029
1-192-S	-973635	200	232	10	31	20	15	3	1,86
		8	9 1/8	3/8	1 1/4	13/16	9/16	1/8	4,101
1-252-S	-973697	250	282	10	31	20	15	3	2,35
		10	11 1/8	3/8	1 1/4	13/16	9/16	1/8	5,182
2-152-S	-973772	150	193	9	40	24	18	4	2,075
		6	7 5/8	3/8	1 9/16	15/16	11/16	3/16	4,575
2-302-S	-973833	300	343	9	40	24	18	4	3,775
		12	13 1/2	3/8	1 9/16	15/16	11/16	3/16	8,324
3-202-S	-973895	200	255	20	67	35	37	4	4,94
		8	10 1/32	13/16	2 5/8	1 3/8	1 7/16	3/16	10,893
3-302-S	-973956	300	350	20	67	35	37	4	6,64
		12	13 3/4	13/16	2 5/8	1 3/8	1 7/16	3/16	14,641
3-402-S	-974038	400	450	20	67	35	37	4	8,14
		16	17 11/16	13/16	2 5/8	1 3/8	1 7/16	3/16	17,949
3-502-S	-974151	500	550	20	67	35	37	4	9,89
		20	21 5/8	13/16	2 5/8	1 3/8	1 7/16	3/16	21,807

SERIES 3-E 1 NARROW, QUICK-ADJUSTABLE JAW HOOK (SINGLE)

The slim, quickly adjustable jaw is suitable for universal pullers. Thanks to the slim design of the jaws, even tight and hard-to-reach spaces can be accessed.







Benefits

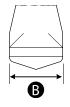
- The movable extracting jaws, which glide along the crossbar, can also extract eccentric components.
- Thanks to the knurling, a tool-free, quick release or relocation of the jaws is possible.

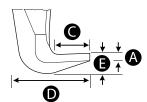
#	4021176	†	L	0	0	<u> </u>	0	0	i
	EAN	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	kg/lb
1-92-S	-973741	100 4	132 5 3/16	10 3/8	31 1 1/4	20 13/16	15 9/16	3 1/8	0,92 2,029
1-192-S	-973635	200 8	232 9 1/8	10 3/8	31 1 1/4	20 13/16	15 9/16	3 1/8	1,86 4,101
1-252-S	-973697	250 10	282 11 1/8	10 3/8	31 1 1/4	20 13/16	15 9/16	3 1/8	2,35 5,182
2-152-S	-973772	150 6	193 7 5/8	9 3/8	40 1 9/16	24 15/16	18 11/16	4 3/16	2,075 4,575
2-302-S	-973833	300 12	343 13 1/2	9 3/8	40 1 9/16	24 15/16	18 11/16	4 3/16	3,775 8,324
3-202-S	-973895	200 8	255 10 1/32	20 13/16	67 2 5/8	35 1 3/8	37 1 7/16	4 3/16	4,94 10,893
3-302-S	-973956	300 12	350 13 3/4	20 13/16	67 2 5/8	35 1 3/8	37 1 7/16	4 3/16	6,64 14,641
3-402-S	-974038	400 16	450 17 11/16	20 13/16	67 2 5/8	35 1 3/8	37 1 7/16	4 3/16	8,14 17,949
3-502-S	-974151	500 20	550 21 5/8	20 13/16	67 2 5/8	35 1 3/8	37 1 7/16	4 3/16	9,89 21,807

SERIES 3-P NARROW, QUICKLY ADJUSTABLE JAWS (PAIR)

The pair of two narrow, quickly adjustable pulling jaws is suitable for 2-jaw universal pullers. The narrow pulling jaws ensure that even tight and hard-to-reach spaces can be accessed.







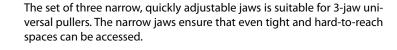
Benefits

- Through the freely movable, sliding jaws on the crossbar, even eccentric components can be pulled off.
- Thanks to the knurling, tool-free, quick loosening or moving of the jaws is made possible.

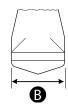
Technical attributes

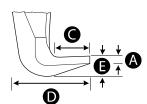
#	4021176	ĮΤ̈́	L ←──	I D	O mm				i
	EAN	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	kg/lb
1-93-P	-973352	100	127	3	14	30	7	3	0,53
		4	5	1/8	9/16	1 3/16	1/4	1/8	1,169
1-193-P	-324208	200	227	3	14	30	7	3	1,095
		8	8 15/16	1/8	9/16	1 3/16	1/4	1/8	2,414
1-253-P	-973710	250	277	3	14	30	7	3	1,34
		10	10 7/8	1/8	9/16	1 3/16	1/4	1/8	2,955
2-153-P	-973789	150	186	4	19	32	8	4	1,37
		6	7 5/16	3/16	3/4	1 1/4	5/16	3/16	3,021
2-303-P	-973857	300	336	4	19	32	8	4	2,58
		12	13 1/4	3/16	3/4	1 1/4	5/16	3/16	5,689
3-203-P	-973901	200	244	6,5	52	35	17	6,5	3,16
		8	9 5/8	1/4	2 1/16	1 3/8	11/16	1/4	6,968
3-303-P	-973970	300	340	6,5	52	35	17	6,5	4,265
		12	13 3/8	1/4	2 1/16	1 3/8	11/16	1/4	9,404
3-403-P	-974052	400	440	6,5	52	35	17	6,5	6,155
		16	17 5/16	1/4	2 1/16	1 3/8	11/16	1/4	13,572
3-503-P	-974175	500	540	6,5	52	35	17	6,5	6,51
		20	21 1/4	1/4	2 1/16	1 3/8	11/16	1/4	14,355

SERIES 3-S 3 NARROW, QUICK-ADJUSTABLE JAWS (SET)









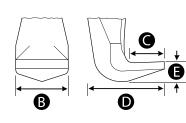
Benefits

- The freely movable pulling jaws, which glide on the crossbar, can also be used to remove eccentric components.
- Thanks to the knurling, a tool-free, quick release or movement of the trigger jaws is possible.

 #		—	L I	0	0	_	0	0	i
••	EAN	L'J ↓ mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	∰ mm/inch	mm/inch	kg/lb
1-93-S	-973758	100	127 5	3 1/8	14 9/16	30 1 3/16	7 1/4	3 1/8	0,85 1,874
1-193-S	-973659	200 8	227 8 15/16	3 1/8	14 9/16	30 1 3/16	7 1/4	3 1/8	1,62 3,572
1-253-5	-973734	250 10	277 10 7/8	3 1/8	14 9/16	30 1 3/16	7 1/4	3 1/8	2,18 4,807
2-153-S	-973796	150 6	186 7 5/16	4 3/16	19 3/4	32 1 1/4	8 5/16	4 3/16	2,03 4,476
2-303-S	-973871	300 12	336 13 1/4	4 3/16	19 3/4	32 1 1/4	8 5/16	4 3/16	3,745 8,258
3-203-S	-973918	200 8	244 9 5/8	6,5 1/4	52 2 1/16	35 1 3/8	17 11/16	6,5 1/4	5,435 11,984
3-303-S	-973994	300 12	340 13 3/8	6,5 1/4	52 2 1/16	35 1 3/8	17 11/16	6,5 1/4	4,265 9,404
3-403-S	-974076	400 16	440 17 5/16	6,5 1/4	52 2 1/16	35 1 3/8	17 11/16	6,5 1/4	7,85 17,309
3-503-S	-974199	500 20	540 21 1/4	6,5 1/4	52 2 1/16	35 1 3/8	17 11/16	6,5 1/4	1,35 2,977

SERIES 4-E 1 EXTREMELY NARROW PULLING HOOK (SINGLE)





The individual, extremely narrow puller jaws are suitable for universal pullers. The trapezoidal support surface of the jaws ensures that even very tight and hard-to-reach gaps are accessed.

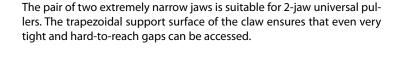
Benefits

• Through the freely movable jaws gliding on the crossbar, eccentric components can also be pulled off.

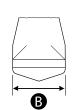
Technical attributes

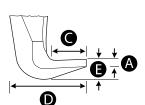
#			L →	I O			O mm	mm .	i
	EAN	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	kg/lb
1-94-E	-321573	100	127	3	12	24	7	3	0,25
		3 15/16	5	1/8	1/2	15/16	1/4	1/8	0,551
1-194-E	-321375	200	227	3	12	24	7	3	0,45
		7 7/8	8 15/16	1/8	1/2	15/16	1/4	1/8	0,992
1-254-E	-321474	250	277	3	12	24	7	3	0,62
		9 13/16	10 7/8	1/8	1/2	15/16	1/4	1/8	1,367

SERIES 4-P EXTREMELY NARROW PULLER JAWS (PAIR)









Benefits

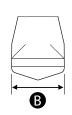
• Through the freely movable jaws gliding on the crossbar, even eccentric components can be removed.

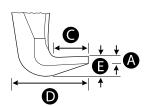
Technical attributes

#	4021176	T)	L →	I				x mm	i
1-94-P	EAN -852039	mm/inch 100	mm/inch 127	mm/inch	mm/inch 12	mm/inch 24	mm/inch 7	mm/inch	kg/lb 0,49
1341	032037	3 15/16	5	1/8	1/2	15/16	1/4	1/8	1,080
1-194-P	-321399	200	227	3	12	24	7	3	1,06
		7 7/8	8 15/16	1/8	1/2	15/16	1/4	1/8	2,337
1-254-P	-321498	250	277	3	12	24	7	3	1,26
		9 13/16	10 7/8	1/8	1/2	15/16	1/4	1/8	2,778

SERIES 4-S 3 EXTREMELY NARROW PULLER JAWS (SET)







The set of three extremely narrow jaws is suitable for 3-jaw universal pullers. The trapezoidal contact surface of the claw ensures that even very tight and hard-to-reach gaps are accessed.

Benefits

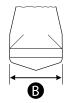
• By using the freely movable, sliding jaws on the crossbar, eccentric components can also be pulled off.

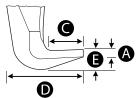
Technical attributes

#	4021176	Ţή	L ←──→	I O	D mm		O O	, mm	i
	EAN	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	kg/lb
1-94-S	-321580	100	127	3	12	24	7	3	0,72
		3 15/16	5	1/8	1/2	15/16	1/4	1/8	1,588
1-194-S	-321412	200	227	3	12	24	7	3	1,56
		7 7/8	8 15/16	1/8	1/2	15/16	1/4	1/8	3,440
1-254-S	-484520	250	277	3	12	24	7	3	1,89
		9 13/16	10 7/8	1/8	1/2	15/16	1/4	1/8	4,167

SERIES 5-E 1 EXTREMELY NARROW, QUICK-ADJUSTABLE JAW HOOK (SINGLE)







The single, extremely narrow, quickly adjustable puller jaws are suitable for universal pullers. The trapezoidal support surfaces of the claw ensure that even very tight and difficult-to-reach spaces can be accessed.

Benefits

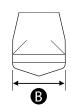
- Through the freely movable, sliding jaws on the crossbar, even eccentric components can be removed.
- Thanks to the knurling, a tool-free, quick solution or repositioning of the jaws is made possible.

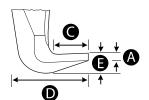
Technical attributes

#	4021176		L	I mm			O O		
	EAN	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	kg/lb
1-95-E	-321597	100	127	3	12	24	7	3	0,24
		3 15/16	5	1/8	1/2	15/16	1/4	1/8	0,529
1-195-E	-321429	200	227	3	12	24	7	3	0,45
		7 7/8	8 15/16	1/8	1/2	15/16	1/4	1/8	0,992
1-255-E	-321528	250	277	3	12	24	7	3	0,62
		9 13/16	10 7/8	1/8	1/2	15/16	1/4	1/8	1,367

SERIES 5-P EXTREMELY NARROW, QUICKLY ADJUSTABLE TRIGGER JAWS (PAIR)







The pair of two extremely narrow, quickly adjustable extractor jaws is suitable for 2-jaw universal pullers. The trapezoidal support surfaces of the claw ensure that even very tight and hard-to-reach gaps are accessible.

Benefits

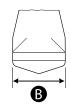
- The movable, sliding extraction jaws on the crossbar can also be used to extract eccentric components.
- Thanks to the knurl, a tool-free, quick release or movement of the trigger hooks is made possible.

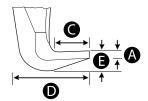
Technical attributes

#	4021176		L ←—→	I O					
	EAN	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	kg/lb
1-95-P	-321610	100	127	3	12	24	7	3	0,505
		3 15/16	5	1/8	1/2	15/16	1/4	1/8	1,114
1-195-P	-321443	200	227	3	12	24	7	3	1,08
		7 7/8	8 15/16	1/8	1/2	15/16	1/4	1/8	2,381
1-255-P	-321542	250	277	3	12	24	7	3	1,32
		9 13/16	10 7/8	1/8	1/2	15/16	1/4	1/8	2,911

SERIES 5-S 3 EXTREMELY NARROW, QUICKLY ADJUSTABLE JAWS (SET)







The set of three extremely narrow, quick-adjustable jaws is suitable for 3-jaw universal pullers. The trapezoidal contact surface of the claw ensures that even very tight and poorly accessible gaps can be reached.

Benefits

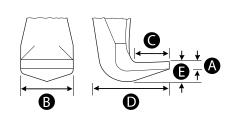
- The movable puller jaws gliding on the crossbar allow for the extraction of eccentric components.
- Thanks to the knurl, a tool-free, quick release or movement of the jaws is made possible.

Technical attributes

#	4021176		L ←—→	I O				. mm	i
	EAN	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	kg/lb
1-95-S	-321634	100	127	3	12	24	7	3	0,81
		3 15/16	5	1/8	1/2	15/16	1/4	1/8	1,786
1-195-S	-321467	200	227	3	12	24	7	3	1,95
		7 7/8	8 15/16	1/8	1/2	15/16	1/4	1/8	4,300
1-255-S	-321566	250	277	3	12	24	7	3	2,095
		9 13/16	10 7/8	1/8	1/2	15/16	1/4	1/8	4,619

SERIES 2-EX 1 QUICK-ADJUSTING JAW HOOK (SINGLE)





The individual, quickly adjustable standard jaw is suitable for universal pullers. The robust design of the jaws guarantees a particularly safe removal of bearings, gears, and discs. The green hand knobs ensure maximum operating comfort and allow for quick, tool-free loosening and fastening of the jaws, even with wet or oily hands.

Benefits

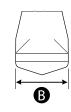
- Through the freely movable, gliding puller jaws on the crossbar, eccentric components can also be removed.
- Thanks to the knurled surface, a quick, tool-free release or adjustment of the jaws is possible.

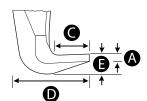
Technical attributes

#	4021176	\Box	L ←→				0	0	i
	EAN	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	kg/lb
1-92-Ex NEW	-061240	100	132	10	31	20	15	3	0,28
		3 15/16	5 3/16	3/8	1 1/4	13/16	9/16	1/8	0,617
1-192-Ex NEW	-061189	200	232	10	31	20	15	3	0,49
		8	9 1/8	3/8	1 1/4	13/16	9/16	1/8	1,080
1-252-Ex NEW	-061202	250	282	10	31	20	15	3	0,56
		10	11 1/8	3/8	1 1/4	13/16	9/16	1/8	1,235
2-152-Ex NEW	-061271	150	193	9	40	24	18	4	0,605
		6	7 5/8	3/8	1 9/16	15/16	11/16	3/16	1,334
2-302-Ex NEW	-061295	300	343	9	40	24	18	4	0
		12	13 1/2	3/8	1 9/16	15/16	11/16	3/16	0,000
3-202-Ex NEW	-426094	200	255	20	67	35	37	4	1,62
		8	10 1/32	13/16	2 5/8	1 3/8	1 7/16	3/16	3,572
3-302-Ex NEW	-061325	300	350	20	67	35	37	4	2,1
		12	13 3/4	13/16	2 5/8	1 3/8	1 7/16	3/16	4,631
3-402-Ex NEW	-262678	400	450	20	67	35	37	4	2,46
		16	17 11/16	13/16	2 5/8	1 3/8	1 7/16	3/16	5,424
3-502-Ex NEW	-262685	500	550	20	67	35	37	4	4,04
		20	21 5/8	13/16	2 5/8	1 3/8	1 7/16	3/16	8,908

SERIES 2-PX QUICK-ADJUSTABLE STANDARD JAWS (PAIR)







The pair of two quickly adjustable standard puller jaws is suitable for 2-jaw universal pullers. The robust jaws guarantee particularly safe removal of bearings, gears, and discs. The green hand knobs ensure maximum user comfort and allow for quick, tool-free loosening or fastening of the jaws, even with wet or oily hands.

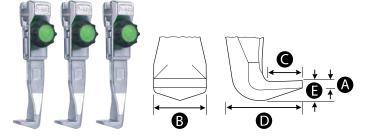
Benefits

- Through the freely movable jaws gliding on the crossbar, eccentric components can also be pulled off.
- Through the knurl, a tool-free, quick release or movement of the jaws is made possible.

#	4021176	ťij	L ←───	I O			□		i
	EAN	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	kg/lb
1-92-Px NEW	-061257	100	132	10	31	20	15	3	0,58
		4	5 3/16	3/8	1 1/4	13/16	9/16	1/8	1,279
1-192-Px NEW	-061172	200	232	10	31	20	15	3	1,17
		8	9 1/8	3/8	1 1/4	13/16	9/16	1/8	2,580
1-252-Px NEW	-061219	250	282	10	31	20	15	3	1,41
		10	11 1/8	3/8	1 1/4	13/16	9/16	1/8	3,109
2-152-Px NEW	-061288	150	193	9	40	24	18	4	1,26
		6	7 5/8	3/8	1 9/16	15/16	11/16	3/16	2,778
2-302-Px NEW	-061318	300	343	9	40	24	18	4	2,59
		12	13 1/2	3/8	1 9/16	15/16	11/16	3/16	5,711
3-202-Px NEW	-426100	200	255	20	67	35	37	4	3,33
		8	10 1/32	13/16	2 5/8	1 3/8	1 7/16	3/16	7,343
3-302-Px NEW	-061332	300	350	20	67	35	37	4	4,55
		12	13 3/4	13/16	2 5/8	1 3/8	1 7/16	3/16	10,033
3-402-Px NEW	-061349	400	450	20	67	35	37	4	5,55
		16	17 11/16	13/16	2 5/8	1 3/8	1 7/16	3/16	12,238
3-502-Px NEW	-061356	500	550	20	67	35	37	4	6,35
		20	21 5/8	13/16	2 5/8	1 3/8	1 7/16	3/16	14,002



SERIES 2-SX 3 QUICK-ADJUSTABLE STANDARD JAWS (SET)



The set of three quickly adjustable standard jaws is suitable for 3-jaw universal pullers. The robust jaws guarantee particularly secure removal of bearings, gears, and disks. The green hand knobs provide maximum operating comfort and enable - even with wet or oily hands - a quick, tool-free loosening or fastening of the jaws.

Benefits

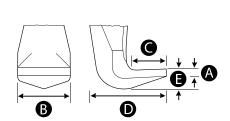
- The movable, gliding jaws on the crossbar can also remove eccentric components.
- Thanks to the knurled surfaces, tool-free, quick release or repositioning of the jaws is enabled.

Technical attributes

#	4021176		L	I O			O O	mm o	
	EAN	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	kg/lb
1-92-Sx NEW	-061264	100	132	10	31	20	15	3	0,92
		4	5 3/16	3/8	1 1/4	13/16	9/16	1/8	2,029
1-192-Sx NEW	-061196	200	232	10	31	20	15	3	1,86
		8	9 1/8	3/8	1 1/4	13/16	9/16	1/8	4,101
1-252-Sx NEW	-061233	250	282	10	31	20	15	3	2,35
		10	11 1/8	3/8	1 1/4	13/16	9/16	1/8	5,182
2-152-Sx NEW	-061363	150	193	9	40	24	18	4	2,75
		6	7 5/8	3/8	1 9/16	15/16	11/16	3/16	6,064
2-302-Sx NEW	-061370	300	343	9	40	24	18	4	3,775
		12	13 1/2	3/8	1 9/16	15/16	11/16	3/16	8,324
3-202-Sx NEW	-061387	200	255	20	67	35	37	4	4,94
		8	10 1/32	13/16	2 5/8	1 3/8	1 7/16	3/16	10,893
3-302-Sx NEW	-061394	300	350	20	67	35	37	4	6,64
		12	13 3/4	13/16	2 5/8	1 3/8	1 7/16	3/16	14,641
3-402-Sx NEW	-061400	400	450	20	67	35	37	4	8,14
		16	17 11/16	13/16	2 5/8	1 3/8	1 7/16	3/16	17,949
3-502-Sx NEW	-061417	500	550	20	67	35	37	4	9,89
		20	21 5/8	13/16	2 5/8	1 3/8	1 7/16	3/16	21,807

SERIES SP-E 1 PULLER WITH ADJUSTABLE LENGTH (SINGLE)





The single, robust, height-adjustable puller jaw guarantees particularly safe removal of bearings, gears, and discs. The hook length can be individually adjusted in the range of 400-700 mm.

Benefits

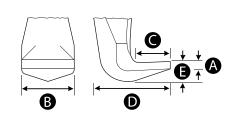
• Through the freely movable, sliding jaws on the crossbar, even eccentric components can be pulled off.

#	4021176		L	I O					i
	EAN	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	kg/lb
4-SP-E	-004551	500	565	25	85	45	50	7	4,34
		19 11/16	22 1/4	1	3 3/8	1 3/4	1 15/16	1/4	9,570
5-SP-E	-004896	700	770	37	105	61	60	7	10,5
		27 9/16	30 5/16	1 7/16	4 1/8	2 3/8	2 3/8	1/4	23,153
5-SP-E-1	-892318	700	437	37	105	61	60	7	4,82
		27 9/16	17 3/16	1 7/16	4 1/8	2 3/8	2 3/8	1/4	10,628

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SERIES SP-P ADJUSTABLE LENGTH PULLER HOOKS (PAIR)





The pair of two height-adjustable puller jaws is suitable for 2-jaw pullers. The robust puller jaws guarantee a particularly safe removal of bearings, gears, and discs.

Benefits

• Through the freely movable jaws gliding on the crossbar, even eccentric components can be removed.

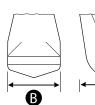
Technical attributes

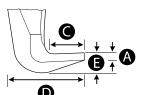
#	4 021176	\Box	L	I	□ mm	L	o mm		
	EAN	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	kg/lb
4-SP-P	-004636	500 19 11/16	565 22 1/4	25 1	85 3 3/8	45 1 3/4	50 1 15/16	7 1/4	8,965 19,768
5-SP-P	-004971	700 27 9/16	770 30 5/16	37 1 7/16	105 4 1/8	61 2 3/8	60 2 3/8	7 1/4	22,21 48,973

SERIES SP-S 3 ADJUSTABLE PULLER JAWS

The set of three height-adjustable puller jaws is suitable for 3-jaw pullers. The robust puller jaws guarantee a particularly safe removal of bearings, gears, and disks.







Benefits

• Through the freely movable, gliding {Traverse} puller jaws, even eccentric components can be pulled off.

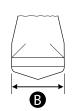
Technical attributes

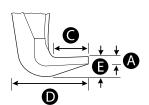
#	4 021176	\Box	L ← →	I mm			D	· mm	
	EAN	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	kg/lb
4-SP-S	-004711	500 19 11/16	565 22 1/4	25 1	85 3 3/8	45 1 3/4	50 1 15/16	7 1/4	13,65 30,098

SERIES 6-P STANDARD JAWS FOR 20-10-V (PAIR)

The pair of jaws is suitable for 2-jaw pullers for gear wheels of series 20-10-V. The robust jaws guarantee a particularly safe pulling of gear wheels.





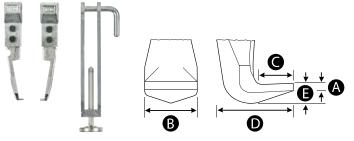


Benefits

• Through the movable puller jaws sliding on the crossbar, eccentric components can also be removed.

#	 4021176	ψı	L	I O			o mm		
	EAN	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	kg/lb
1-96-P	-001031	100 3 15/16	123,5 4 7/8	2,2 1/16	10,5 7/16	21 13/16	6 1/4	2,2 1/16	0,46 1,014

SERIES 1-96/219-V STANDARD JAWS FOR 20-10-V WITH LOCKING CLAMP (PAIR)



The pair of puller jaws with clamp is suitable for 2-jaw pullers for gear wheels of series 20-10-V. The robust puller jaws guarantee a particularly safe removal of gear wheels.

Benefits

• The mobile puller jaws, which glide along the crossbar, can also be used to extract eccentric components.

Technical attributes

#	4021176		L ← →	I O	D mm		O mm		i
	EAN	mm/inch	kg/lb						
1-96/219-V	-793073	100	123,5	2,2	10,5	21	6	2,2	0,75
		3 15/16	4 7/8	1/16	7/16	13/16	1/4	1/16	1,654

SERIES V-P 2 JAWS EXTENSIONS (PAIR)







The pair of jaws extensions is used to increase the reach. This allows components that are particularly deep on a shaft to be grasped. The extensions can be combined in any way and thus adapted to the required reach.

Benefits

- · Unlimited extension of reach
- Cross-referencing allows for increased power uptake and relieves the screw.
- · Compatible with various hook types

Technical attributes

#		L	i
	EAN	mm/inch	kg/lb
1-V-100-P	-985058	100 3 15/16	0,565 1,246
1-V-150-P	-985089	150 5 7/8	0,85 1,874
2-V-150-P	-985201	150 5 7/8	1,195 2,635

SERIES V-S 3 PULLER EXTENSIONS (SET)







The set of Pulling jaws extensions is used to extend the reach. This allows for the gripping of components that are seated particularly deep on a shaft. The extensions can be combined with each other as desired and thus adapted to the required reach.

Benefits

- · Unlimited Extension of Reach
- Cross reception enables increased force intake and relieves the screw.
- · Compatible with various hook types

Technical attributes

#		L	i
	EAN	mm/inch	kg/lb
1-V-100-S	-985065	100 3 15/16	0,84 1,852
1-V-150-S	-985096	150 5 7/8	1,205 2,657
2-V-150-S	-985218	150 5 7/8	1,775 3,914

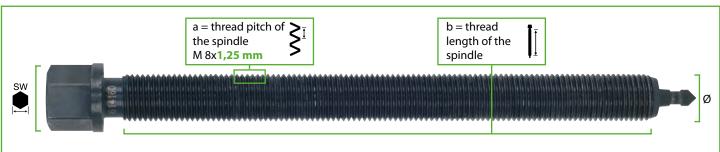
SERIES 6 MECHANICAL PRESSURE SPINDLE



The mechanical pressure spindle is the heart of every KUKKO puller. It achieves a maximum pulling force of 10 t. The manual operation of the spindle allows for a sensitive control of the extraction process. The fine thread also ensures perfect power transmission. A reversible spindle tip enables a secure placement of the spindle on both smooth surfaces and centrings.

Benefits

- Optimal gliding properties in the thread groove thanks to special coating
- Ideal adaptation of the spindle to the shaft through two-sided spindle tip



		_			
#	4 021176	Ø	Ī	\mathbf{z}	SW
	EAN	mm/inch	mm/inch		mm/inch
608080	-176241	8 5/16	80 3 1/8	M 8x1,25	T-handle
608130	-481086	8 5/16	130 5 1/8	M 8x1,25	T-handle
609087	-102493	9 3/8	87 3 7/16	M 9x1,25	T-handle
609105	-101403	9 3/8	105 4 1/8	M 9x1,25	T-handle
610070	-362446	10 3/8	75 2 15/16	M 10x1,5	13 1/2
610094	-122118	10 3/8	94 3 11/16	M 10x1,5	T-handle
610110	-433726	10 3/8	120 4 3/4	M 10x1,5	8 5/16
610120	-910005	10 3/8	120 4 3/4	M 10x1,5	13 1/2
612080	-238468	12 1/2	85 3 3/8	M 12x1,5	13 1/2
612110	-112881	12 1/2	110 4 5/16	M 12x1,5	13 1/2
612130	-077081	12 1/2	130 5 1/8	M 12x1,5	13 1/2
612150	-790201	12 1/2	150 5 7/8	M 12x1,5	13 1/2
612200	-056208	12 1/2	210 8 1/4	M 12x1,75	13 1/2
614135	-074271	14 9/16	135 5 5/16	M 14x1,5	17 11/16
614160	-112966	14 9/16	160 6 5/16	M 14x1,5	17 11/16
614200	-838576	14 9/16	200 7 7/8	M 14x1,5	17 11/16
614242	-910012	14 9/16	240 9 7/16	M 14x1,5	17 11/16
614250	-306709	14 9/16	250 9 13/16	M 14x1,5	17 11/16
616202	-264351	16 5/8	185 7 5/16	M 16x2,0	17 11/16
616270	-480829	16 5/8	270 10 5/8	M 16x2,0	17 11/16
616325	-480904	16 5/8	325 12 13/16	M 16x2,0	17 11/16
616220	-420856	16 5/8	220 8 11/16	M 16x1,5	17 11/16
618068	-123771	18 11/16	58 2 5/16	M 18x1,5	19 3/4
618105	-073779	18 11/16	105 4 1/8	M 18x1,5	19 3/4

#	4021176	Ø	lacksquare	$\mathbf{\xi}_{\overline{1}}$	S₩
	EAN	mm/inch	mm/inch		mm/inch
618175	-056215	18 11/16	175 6 7/8	M 18x1,5	19 3/4
618210	-113048	18 11/16	210 8 1/4	M 18x1,5	19 3/4
621130	-124358	20,955 13/16	130 5 1/8	G 1/2"/14	22 7/8
621170	-067181	20,955 13/16	170 6 11/16	G 1/2"/14	22 7/8
621220	-268373	20,955 13/16	220 8 11/16	G 1/2"/14	22 7/8
621300	-765346	20,955 13/16	300 11 13/16	G 1/2"/14	22 7/8
621355	-236228	20,955 13/16	355 13 1	G 1/2"/14	22 7/8
623150	-018961	22,911 7/8	150 5 7/8	G 5/8" / 14	24 15/16
623170	-124501	22,911 7/8	170 6 11/16	G 5/8"/14	24 15/16
623230	-074684	22,911 7/8	230 9 1/16	G 5/8" / 14	24 15/16
623260	-113123	22,911 7/8	260 10 1/4	G 5/8"/14	24 15/16
623325	-125263	22,911 7/8	325 12 13/16	G 5/8" / 14	24 15/16
623360	-814976	22,911 7/8	360 14 3/16	G 5/8" / 14	24 15/16
623450	-832796	22,911 7/8	450 17 11/16	G 5/8" / 14	24 15/16
626300	-765360	26,441 1 1/32	300 11 13/16	G 3/4"/14	27 1 1/16
626400	-125423	26,441 1 1/32	400 15 3/4	G 3/4"/14	27 1 1/16
626500	-765377	26,441 1 1/32	500 19 11/16	G 3/4"/ 14	27 1 1/16
633400	-765384	33,249 1 5/16	400 15 3/4	G 1"/11	36 1 7/16
633500	-893452	33,249 1 5/16	500 19 11/16	G 1"/11	36 1 7/16
633600	-866388	33,249 1 5/16	600 23 5/8	G 1"	36 1 7/16
637350	-893469	37,897 1 1/2	350 13 3/4	G1″1/8	41 1 5/8
637500	-895609	37,897 1 1/2	500 19 11/16	G1" 1/8	41 1 5/8
637600	-169236	37,897 1 1/2	600 23 5/8	1.1/8"	41 1 5/8
638300	-059230	38,1 1 1/2	322 12 11/16	W 1.1/2"	24 15/16



SERIES 844-626 MECHANICAL SPINDLE



The mechanical spindle allows for easy and controlled removal of particularly stubborn parts through impact force. Additionally, it guarantees exceptionally good sliding properties in the thread. The fine thread ensures an ideal power transmission. The exact force required for the removal is generated.

Benefits

Light and controlled removal of particularly stubborn parts through impact action

Technical attributes

#		L ← →	$\mathbf{\xi}_{\overline{\underline{I}}}$	SW 	i
	EAN	mm/inch		mm/inch	kg/lb
844-626	-032851	200 7 7/8	W 1 1/2"-16	24 15/16	1,405 3,098

SERIES 800-626 MECHANICAL IMPACT SHOCK SPINDLE



The mechanical impact spindle enables easy and controlled extraction of particularly seized parts through impact force. Additionally, the spindle guarantees particularly good sliding properties in the thread groove. The fine thread ensures ideal power transmission. Exactly the required force for extraction is generated.

Benefits

• Light and controlled removal of particularly stuck parts through impact action

#		L →	Şī	sw 	i
	EAN	mm/inch		mm/inch	kg/lb
800-626	-969980	280 11 1/32	W 1 1/2"-16	30 1 3/16	2,105 4,642

SERIES 600-17 UNIVERSAL PRESSURE PIECE SET (3-PIECE)



The pressure piece kit is used to stabilize the pressure spindle on a hollow shaft. The kit includes a total of three pressure pieces that have different diameters and can be combined with each other. Thanks to their step-shaped silhouette, the pressure pieces fit perfectly on the hollow shaft. Depending on the size, the different pressure pieces can also be nested together to achieve the exact diameter of the shaft.

Benefits

· Adjustment possibility for the spindle in hollow shaft





Technical attributes

#	 		i	Included in the set
	EAN	mm/inch	kg/lb	
600-17	-914188	20; 32; 41 13/16;1 1/4;1 5/8	0,11 0,243	K-20-15

SERIES K-600 REVERSABLE SPINDLE TIP





The reversible pressure piece set is considered the optimal addition for KUKKO pressure spindles with interchangeable tips and can be used for any mounting position. For individual adjustment to the shaft, the pressure piece is inserted into the spindle. It is possible to choose between different pressure pieces (e.g., with a flat or concave bearing surface). The set also includes a 3-piece universal pressure piece set for stepwise adjustment on hollow shafts, as well as a magnetic mini-LED.

Benefits

- Every installation position can be covered.
- Dual spindle tip for smooth surfaces and centering

#	4 021176			1 1	1 1	‡ 1	i	CONTINUE
	EAN	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	kg/lb	
K-600-A	-833960	20; 32; 41 13/16;1 1/4;1 5/8	6,4 1/4	34 1 5/16	33 1 5/16	38 1 1/2	0,61 1,345	612080, 612110, 612130, 612150, 612200, 614135, 614160, 614200, 614242, 614250
K-600-B	-833977	20; 32; 41 13/16;1 1/4;1 5/8	10,4 7/16	48 1 7/8	48 1 7/8	52 2 1/16	0,705 1,555	616202, 616270, 616325, 616220, 618105, 618175, 618210
K-600-C	-833984	20; 32; 41 13/16;1 1/4;1 5/8	12,5 1/2	61 2 3/8	59 2 5/16	68 2 11/16	0 0,000	620172, 621130, 621170, 621220, 621300, 621355, 623150, 623170, 623230, 623260, 623325, 623360, 623450, 626300, 626400, 626500
K-600-D	-833991	20; 32; 41 13/16;1 1/4;1 5/8	18,9 3/4	64 2 1/2	62 2 7/16	78 3 1/16	0 0,000	633400, 633500, 633600, 637350, 637500, 637600

SERIES 8-0 HYDRAULIC SPINDLE



The hydraulic spindle of series 8-0 is the motor of the puller and achieves a pulling force of 12 t. The hydraulic spindle is suitable for removing particularly stubborn bearings, gears, and discs that cannot be loosened with pure muscle power. Thanks to integrated fat-hydraulic, no external pump is required.

Benefits

• The hydraulic spindle enables easy and controlled removal of particularly stubborn parts with minimal effort.

Technical attributes

#	 	$\mathbf{\xi}_{\overline{1}}$		P	Max. tensile force	Max. tractive force	
	EAN		mm/inch	Nm/ft lb	kN	t/US t. sh.	kg/lb
8-0-621	-774263	G 1/2"	10 3/8	15 11.06	100	10 11.02	1,57 3,462
8-0-626	-774270	G 3/4"	12 1/2	20 14.75	120	12 13.23	1,94 4,278

SERIES 8 LONG HYDRAULIC SPINDLE



The fat hydraulic spindle of series 8 is the motor of the puller and achieves an average pulling force of 20 t. The hydraulic spindle is suitable for pulling off particularly stubborn bearings, gears, and discs that cannot be loosened by pure muscle power. Thanks to integrated fat-hydraulics, no external pump is required.

Benefits

- The hydraulic spindle guarantees easy and controlled removal of particularly stuck parts with minimal effort.
- Hydraulic spindle doubles the manual pulling force by 100%

#		ŞĪ	!	P	Max. tensile force	Max. tractive force	i
	EAN		mm/inch	Nm/ft lb	kN	t/US t. sh.	kg/lb
8-1-B	-034596	G1″	10 3/8	45 33.19	150	15 16.53	7,655 16,879
8-1-F	-034671	G1"	10 3/8	45 33.19	150	15 16.53	8,79 19,382
8-2-K	-034831	G 1 1/8"	10 3/8	30 22.13	200	20 22.05	9,795 21,598
8-2-M	-034916	G 1 1/8"	10 3/8	30 22.13	200	20 22.05	11,14 24,564

SERIES 8-HP HYDRAULIC SPINDLE WITH HAND LEVER OPERATION



Technical attributes

The hydraulic spindle with hand lever operation is suitable for pulling off particularly stubborn bearings, gears, and discs with a pulling force of up to . Thanks to the integrated grease hydraulics, no external pump is required. The manually extendable lever arm of the pump can be pivoted 360°. The flexible connection thread on the spindle allows for the mounting of various puller tools from the KUKKO range, depending on the thread size. By using an extension and pressure piece, the hydraulic spindle can be adjusted to various installation situations.

Benefits

- The hydraulic spindle guarantees easy and controlled extraction of particularly stubborn parts with minimal effort.
- Significant reduction of disassembly times due to simple and quick handling
- With extension pieces, the range of the hydraulic spindle can be adjusted to the respective requirements.

#	 	$\mathbf{\xi}_{\overline{1}}$		Max. tensile force	Max. tractive force	i
	EAN		mm/inch	kN	t/US t. sh.	kg/lb
8-HP-621 NEW	-182242	G 1/2"	52 2 1/16	40	4 4.41	7,2 15,876
8-HP-623 NEW	-182259	G 5/8"	52 2 1/16	60	6 6.61	5,56 12,260
8-HP-626 NEW	-182273	G 3/4"	52 2 1/16	120	12 13.23	8,82 19,448
8-HP-633 NEW	-182280	G 1"	52 2 1/16	120	12 13.23	7,46 16,449
8-HP-637 NEW	-182297	G 1 1/8"	52 2 1/16	150	15 16.53	8,07 17,794
8-HP-800 NEW	-182303	W 1 1/2"	52 2 1/16	200	20 22.05	12,54 27,651

SERIES K-8-HP HYDRAULIC SPINDLE WITH HAND LEVER OPERATION IN L-BOXX WITH FIXED RING



The hydraulic spindle with hand lever operation in the case is suitable for pulling off particularly stubborn bearings, gears, and discs with a pulling force of up to 21 t. Thanks to the integrated grease hydraulic, no external pump is required. The lever arm of the pump can be swiveled 360°. With the help of the fixing ring, the hydraulic spindle can also be used with components with standard through holes.

Benefits

- The hydraulic spindle guarantees easy and controlled removal of particularly fixed parts with low effort.
- Significant reduction of dismantling times through easy and quick handling
- By using extension pieces, the reach of the hydraulic spindle can be adapted to the respective requirements.

#	 	<u> </u>		Max. tensile force	Max. tractive force
	EAN		mm/inch	kN	t/US t. sh.
K-8-HP-621 NEW	-041396	G 1/2"	52 2 1/16	40	4 4.41
K-8-HP-623 NEW	-041402	G 5/8"	52 2 1/16	60	6 6.61
K-8-HP-626 NEW	-041419	G 3/4"	52 2 1/16	120	12 13.23
(-8-HP-633 NEW	-041426	G 1″	52 2 1/16	120	12 13.23
(-8-HP-637 NEW	-041440	G 1 1/8"	52 2 1/16	150	15 16.53
K-8-HP-800 NEW	-041457	W 1 1/2"	52 2 1/16	200	20 22.05

SERIES 800 SHORT HYDRAULIC SPINDLE



The fat-hydraulic spindle of the 800 series is the motor of the puller and achieves an average pulling force of 20 t. With this, particularly stuck bearings, gears, and discs can be effortlessly dismantled. As a true powerhouse, the spindle impresses with a compact design, ease of use, and portability. The spindle is ribbed on the sides to provide particularly good grip for the fingers when repositioning. Due to its favorable installation dimensions, the spindle can be used universally. Thanks to integrated fat-hydraulics, no external pump is required.

Benefits

- The hydraulic spindle guarantees easy and controlled extraction of particularly seized parts with minimal effort.
- Hydraulic spindle doubles the manual pulling force by 100 %

Technical attributes

#	4 021176	Şī		P	Max. tensile force	Max. tractive force	SW 	i
	EAN		mm/inch	Nm/ft lb	kN	t/US t. sh.	mm/inch	kg/lb
800	-034343	W 1.1/2"- 16(55°;16Gang)	10 3/8	40 29.50	100	10 11.02	13 1/2	1,46 3,219
801	-784446	W 1.1/2"- 16(55°;16Gang)	10 3/8	70 51.63	150	15 16.53	19 3/4	1,47 3,241
802	-784514	M40x1,5	10 3/8	100 73.76	200	20 22.05	19 3/4	1,55 3,418
804	-456787	W 1.1/2"- 16(55°;16Gang)	10 3/8	70 51.63	150	15 16.53	19 3/4	1,475 3,252

SERIES 800-0 SPINDLE EXTENSIONS



The spindle extension is used to extend the spindle for the system series 800. It allows for quick adjustment to various requirements. Depending on the application, the extensions are available in different sizes.

Benefits

Quick adaptation to the respective pull-off situation thanks to spindle extension

#	 4021176	<u>L</u> ←—→	i
	EAN	mm/inch	kg/lb
800-050	-031113	50 1 15/16	0,13 0,287
800-100	-031298	100 3 15/16	0,335 0,739
800-150	-031373	150 5 7/8	0,54 1,191

SERIES 9 HYDRAULIC ADDITIONAL PRESSES

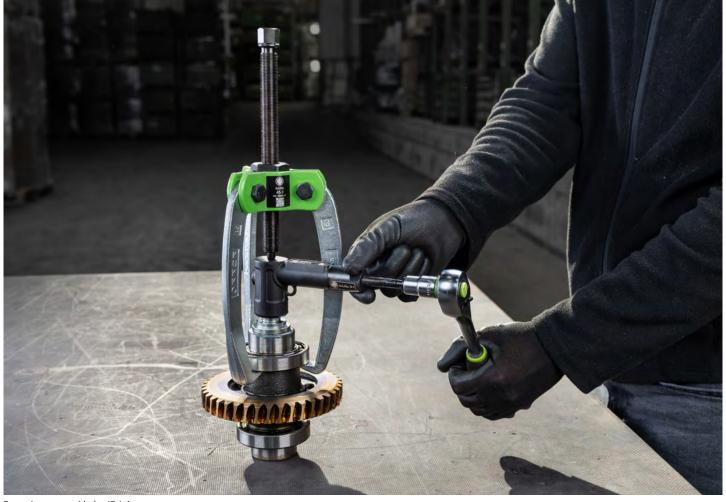


The hydraulic additional press is used to increase the pressure capacity of mechanical pullers for particularly stubborn bearings, gears, and disks. With the hydraulic additional press, pulling forces of up to 30 t can be achieved.

Benefits

- Hydraulic additional press ensures easy and controlled removal of particularly stubborn parts with little effort.
- Eyelets for attaching a fall protection system as well as for tool organization with tool brands, issue cards, or electronic systems.
- Automatic system pulls the piston back into the starting position

#	4 021176	<u>ī</u>	1	P	Max. tensile force	Max. tractive force		Included in the set
	EAN	mm/inch	mm/inch	Nm/ft lb	kN	t/US t. sh.	kg/lb	
9-1	-005053	60 2 3/8	10 3/8	35 25.82	100	10 11.02	0,825 1,819	-
9-2	-005138	87 3 7/16	15 9/16	50 36.88	150	15 16.53	1,88 4,145	K-226-4/12
9-3	-924408	113 4 7/16	7 1/4	35 25.82	300	30 33.07	5,16 11,378	-



Removing a gear with the 47-1-A



The 2- and 3-arm universal pullers "Vario" with spring-loaded hook safety device from the 120 and 130 series are suitable for pulling bearings, gears and pulleys that are mounted on a shaft and are freely accessible from the outside. The hook safety catch prevents the puller legs from slipping off the crosshead.

Benefits

- By pressing down the hook safety mechanism, a particularly fast turning of the jaws is guaranteed.
- \cdot The hook safety prevents the puller jaws from slipping off the crossbar.
- Application also for eccentric components using freely movable puller jaws sliding on the crossbar.
- Variable adjustment for different spans (depending on the model)
- Safe positioning of the spindle through a rotating spindle tip on both smooth surfaces and during centering (Switch Technology)

ASSEMBLY OF A UNIVERSAL PULLER "VARIO"



SERIES 120

2-jaw universal puller with spring-loaded hook safety



120-10

The 2-jaw universal pullers of series 20 are universally applicable even in confined spaces.

SERIES 130

3-jaw universal puller with spring-loaded hook safety



130-10

Thanks to the 3-jaw design, the pullers in series 30 ensure an even distribution of force, thereby allowing for even greater pulling forces.

APPLICATION EXAMPLES



SERIES 120 2-JAW UNIVERSAL PULLER "VARIO" WITH SPRING SAFETY DEVICE



Technical attributes

The 2-jaw universal puller "VARIO" with spring-loaded safety device is used to remove bearings, gears, and discs in all common sizes for crafts, workshops, and industry. It can loosen any component that sits on a shaft and is freely accessible from the outside. Equipped with robust, always parallel jaws, the puller ensures particularly safe, damage-free disassembly both for external extraction and internal extraction. The safety device prevents the jaws from slipping off the crossbar.

Benefits

- The safety device protects against the slipping of the puller jaws from the crossbar.
- By pressing the safety lock, a particularly fast inversion of the jaws is guaranteed.
- Application also for eccentric components through free-moving, sliding puller jaws on the crossbar.
- Adjustment to any span between 10 mm 350 mm

#	4021176	T T	tήl		SW	P	Max. tensile force	Max. tractive force	i	Included in the set
	EAN	mm/inch	mm/inch	mm/inch	mm/inch	Nm/ft lb	kN	t/US t. sh.	kg/lb	
120-1	-918551	20 13/16 - 3 15/16	100 3 15/16	100 - 130 3 15/16 - 5 1/8	17 11/16	80 59.01	30	3 3.31	1,06 2,337	120-ST
120-10	-918599	20 - 150 13/16 - 5 7/8	100 3 15/16	100 - 180 3 15/16 - 7 1/16	17 11/16	80 59.01	30	3 3.31	1,16 2,558	120-ST
120-2	-918636	20 - 150 13/16 - 5 7/8	150 5 7/8	100 - 180 3 15/16 - 7 1/16	17 11/16	80 59.01	30	3 3.31	1,28 2,822	120-ST
120-20	-918674	10 - 250 3/8 - 9 13/16	150 5 7/8	130 - 300 5 1/8 - 11 13/16	24 15/16	100 73.76	30	3 3.31	3,5 7,718	120-ST
120-3	-918711	10 - 250 3/8 - 9 13/16	200 7 7/8	125 - 300 4 15/16 - 11 13/16	24 15/16	100 73.76	30	3 3.31	3,84 8,467	120-ST
120-30	-918759	10 - 350 3/8 - 13 3/4	200 7 7/8	125 - 400 4 15/16 - 15 3/4	24 15/16	120 88.51	40	4 4.41	5,025 11,080	-

SERIES 130 3-JAW UNIVERSAL PULLER "VARIO" WITH SPRING-LOADED SAFETY



The 3-jaw universal puller "VARIO" with spring-loaded anti-slip safety is used for removing bearings, gears, and discs in all common sizes for crafts, workshops, and industry. This allows for the loosening of any component that is mounted on a shaft and is freely accessible from the outside. Equipped with robust, always parallel puller jaws, the puller ensures a particularly safe, non-destructive disassembly whether for external extraction or internal removal. The anti-slip safety prevents the puller jaws from slipping off the crossbar. The 3-jaw design guarantees an even load distribution, thereby providing a particularly secure hold on the part to be removed.

Benefits

- Fall protection protects against the jaws sliding off the crossbar.
- By pressing down the safety latch, a particularly fast flipping of the jaws is guaranteed.
- 3-jaw ensures an even force distribution and allows for greater pulling forces.
- Application also for eccentric components through freely movable, sliding jaws on the crossbar.

#	4021176		(†)		SW 	P	Max. tensile force	Max. tractive force	i
	EAN	mm/inch	mm/inch	mm/inch	mm/inch	Nm/ft lb	kN	t/US t. sh.	kg/lb
130-10	-918834	20 - 150 13/16 - 5 7/8	100 3 15/16	100 - 180 3 15/16 - 7 1/16	17 11/16	80 59.01	30	3 3.31	1,24 2,734
130-2	-918872	20 - 150 13/16 - 5 7/8	150 5 7/8	100 - 180 3 15/16 - 7 1/16	17 11/16	80 59.01	30	3 3.31	1,75 3,859
130-20	-918919	20 - 260 13/16 - 10 1/4	150 5 7/8	120 - 300 4 3/4 - 11 13/16	24 15/16	110 81.14	35	3.5 3.86	4,28 9,437
130-3	-918957	20 - 260 13/16 - 10 1/4	200 7 7/8	120 - 300 4 3/4 - 11 13/16	24 15/16	110 81.14	35	3.5 3.86	5,365 11,830



SERIES 120-ST SALES DISPLAY FOR 2-JAW UNIVERSAL PULLER "VARIO" WITH SPRING-LOADED END SAFETY



The display for 2-jaw universal pullers is the ideal solution for the presentation and storage of various sizes of 2-jaw universal pullers. The 2-jaw universal pullers "VARIO" with spring-loaded anti-slip safety are used for pulling bearings, gears, and discs in all common sizes for crafts, workshops, and industry. This allows for the loosening of any component that is mounted on a shaft and is accessible from the outside. Equipped with robust, always parallel jaws, the puller ensures particularly safe, damage-free disassembly during both external extraction and internal pulling. The anti-slip safety prevents the jaws from slipping off the crossbar.

Benefits

- The sales and workshop stand provides organized storage and presentation of the 2-jaw pullers.
- The safety device protects against the slipping of the puller jaws from the crossbar.
- By pressing down the anti-slip safety, a particularly fast rotation of the jaws is guaranteed.
- Application also with eccentric components through freely movable, sliding puller jaws on the crossbar.

#	4 021176							P	Max. tensile force	Max. tractive force		Components
	EAN	mm/ inch	mm/ inch	mm/ inch	mm/ inch	mm/ inch	mm/ inch	Nm/ ft lb	kN	t/ US t. sh.	kg/lb	
120-	- ST -96148	9 630 24 13/16	250 9 13/16	316 12 7/16	20 - 250 13/16 - 9 13/16	200 7 7/8	100 - 300 3 15/16 - 11 13/16	85 62.70	30	3 3.31	14,79 32,612	120-1, 120-10, 120-2, 120-20, 120-3, 20-STL

SERIES 130-P 2-JAW PULLER (PAIR)



The pair of two jaws is suitable for the 2-jaw universal puller "VARIO". The robust jaws guarantee a particularly safe, non-destructive disassembly.

Benefits

 Through the freely movable, sliding jaws on the crossbar, even eccentric components can be pulled off.

Technical attributes

#	4021176		L	I D			⊕ mm		
	EAN	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	kg/lb
0-100-P	-002243	105 4 1/8	148,5 5 7/8	9 3/8	32 1 1/4	21 13/16	16 5/8	4 3/16	0,425 0,937
0-148-P	-001093	155 6 1/8	198,5 7 13/16	9 3/8	32 1 1/4	21 13/16	16 5/8	4 3/16	0,48 1,058
0-150-P	-003073	150 5 7/8	215,6 8 1/2	15 9/16	43 1 11/16	28 1 1/8	18 11/16	4 3/16	1,24 2,734
0-200-P	-004483	205 8 1/16	270,6 10 5/8	15 9/16	43 1 11/16	28 1 1/8	20 13/16	4 3/16	1,54 3,396

SERIES 130-S 3 JAWS (SET)



The set of three jaws is suitable for the 3-jaw universal puller "VARIO". The robust jaws guarantee a particularly safe, non-destructive disassembly.

Benefits

• Through the freely movable puller jaws gliding on the crossbar, even eccentric components can be pulled off.

#	 	ıήı	L ←──→	I			o mm	a mm	i
	EAN	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	kg/lb
0-100-S	-001062	105 4 1/8	148,5 5 7/8	9 3/8	32 1 1/4	21 13/16	16 5/8	4 3/16	0,561 1,237
0-148-S	-001109	155 6 1/8	198,5 7 13/16	9 3/8	32 1 1/4	21 13/16	16 5/8	4 3/16	0,72 1,588
0-150-S	-001123	150 5 7/8	215,6 8 1/2	15 9/16	43 1 11/16	28 1 1/8	18 11/16	4 3/16	1,89 4,167
0-200-S	-001147	205 8 1/16	270,6 10 5/8	15 9/16	43 1 11/16	28 1 1/8	20 13/16	4 3/16	2,12 4,675

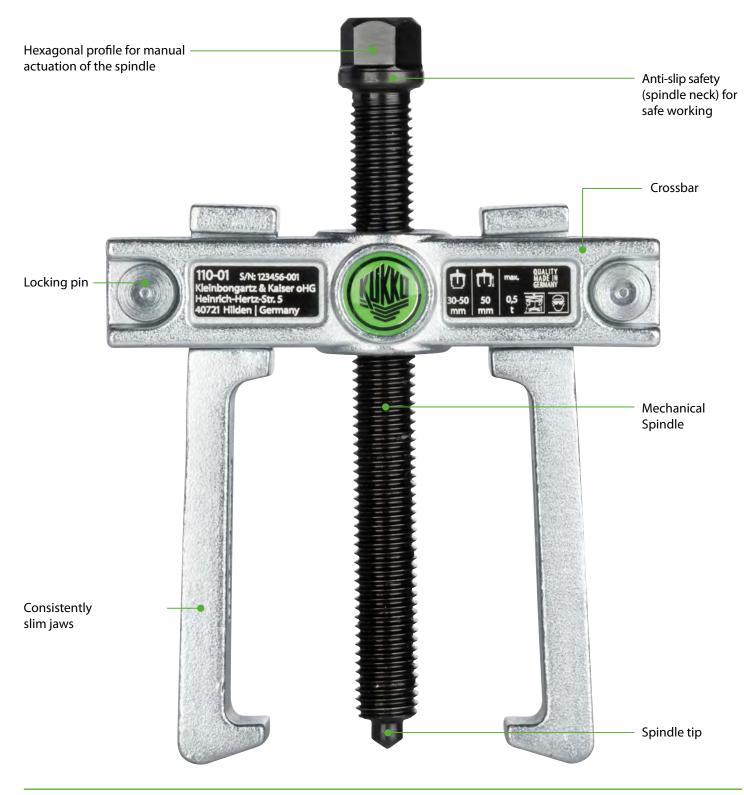


The 2-jaw universal puller "Techno" is used for disassembling various components (e.g., ball bearings, gears, discs, etc.) in workshops and agriculture. The two locking pins prevent the puller jaws from slipping off the crossbar and thus guarantee a particularly safe pulling process.

Benefits

- · The locking pin protects against the jaws slipping off the crossbar.
- · Optional convertible from an external puller to an internal extractor by reversing the jaws.
- · Anti-slip safety (spindle neck) at the spindle head for safe working with wrench.
- Spindle exit to protect the thread

ASSEMBLY OF THE UNIVERSAL PULLER "TECHNO"



locking pin

The locking pins ensure that the puller jaws cannot slip off the crossbar. Additionally, the removable pin allows for a quick reversal of the jaws, making the puller universally applicable.



Removable safety pin



The spring-loaded ball secures the pin against slipping



The locking pin has been inserted.

APPLICATION EXAMPLES



Removing a pulley from a machine gearbox with the 110-02



Removing a pulley from a washing machine motor with



Removing a hub from a steering knuckle with the 110-2

SERIES 110 2-JAW UNIVERSAL PULLER "TECHNO" WITH LOCKING PIN



The 2-jaw universal puller "Techno" with locking pin is used for pulling bearings, gears, and discs in all common sizes for agriculture and workshops. It allows for loosening any component that sits on a shaft and is freely accessible from the outside. Equipped with consistently parallel and slender puller jaws, the puller ensures particularly safe, non-destructive disassembly during both external extraction and internal pulling. The locking pin prevents the puller jaws from slipping off the crossbar.

Benefits

- The locking pin prevents the jaws from slipping off the crossbar.
- Optional convertible from an external puller to an internal extractor by reversing the jaws.
- Anti-slip safety (spindle neck) at the spindle head for safe working with a wrench
- Spindle outlet to protect the thread

#	4021176	ф	ij		sw 	P	Max. tensile force	Max. tractive force	
	EAN	mm/inch	mm/inch	mm/inch	mm/inch	Nm/ft lb	kN	t/US t. sh.	kg/lb
110-01	-923753	22 - 50 7/8 - 1 15/16	50 1 15/16	45 - 55 1 3/4 - 2 3/16	10 3/8	12 8.85	5	0.5 0.55	0,265 0,584
110-02	-923760	22 - 85 7/8 - 3 3/8	50 1 15/16	45 - 90 1 3/4 - 3 9/16	10 3/8	12 8.85	10	1 1.10	0,31 0,684
110-1	-923777	28 - 100 1 1/8 - 3 15/16	100 3 15/16	80 - 105 3 1/8 - 4 1/8	17 11/16	35 25.82	20	2 2.20	1,18 2,602
110-10	-923784	33 - 120 1 5/16 - 4 3/4	100 3 15/16	90 - 140 3 9/16 - 5 1/2	17 11/16	35 25.82	20	2 2.20	1,255 2,767
110-2	-923791	42 - 165 1 5/8 - 6 1/2	150 5 7/8	100 - 190 3 15/16 - 7 1/2	19 3/4	100 73.76	50	5 5.51	2,46 5,424
110-20	-923807	52 - 200 2 1/16 - 7 7/8	150 5 7/8	115 - 230 4 1/2 - 9 1/16	19 3/4	80 59.01	40	4 4.41	2,645 5,832
110-3	-923814	62 - 250 2 7/16 - 9 13/16	200 7 7/8	140 - 280 5 1/2 - 11 1/32	22 7/8	120 88.51	60	6 6.61	4,88 10,760
110-4	-956317	152 - 350 5 1 - 13 3/4	250 9 13/16	230 - 380 9 1/16 - 14 15/16	22 7/8	150 110.64	70	7 7.72	6,21 13,693

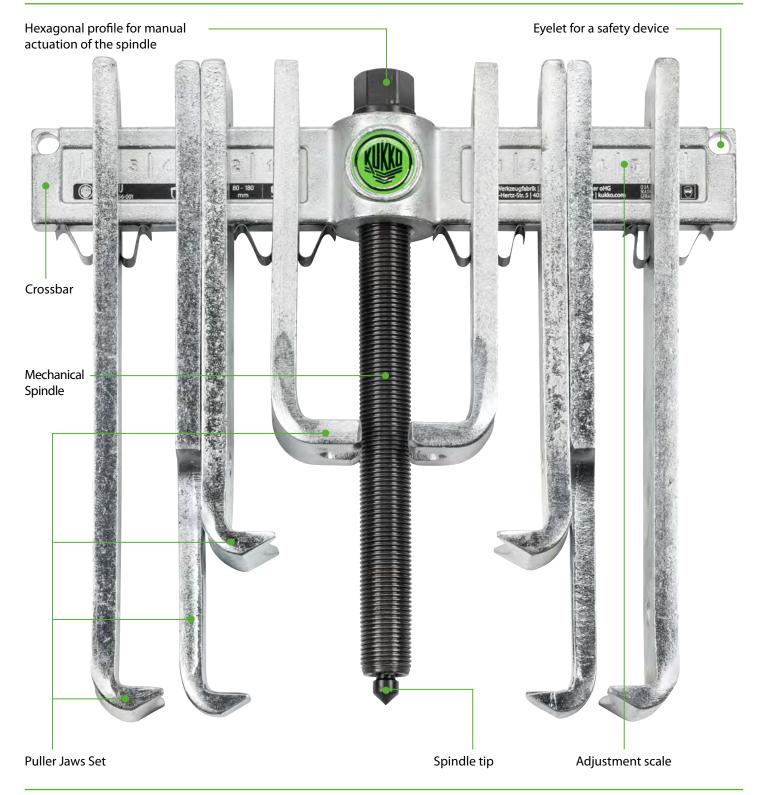


Due to its particularly robust design, the 2-jaw universal puller "Economy" is the ideal choice for pulling operations in agriculture as well as in workshops. Thanks to the versatile combination set of puller jaws, various components in all common sizes can be disassembled without damage.

Benefits

- · Multifunctional use thanks to four different puller jaw pairs for individual adjustment to the respective reach
- · Puller jaws can be connected via a screw connection up to a reach of 580 mm.
- Optional convertible from an external puller to an internal extractor by reversing the jaws.
- Safe positioning of the spindle through a rotating spindle tip on both smooth surfaces and during centering (Switch Technology)

ASSEMBLY OF A UNIVERSAL PULLER USING THE EXAMPLE 200-U



SERIES 200-U

2-jaw universal puller "Economy"



The 2-jaw universal puller can be individually adjusted to the respective reach by the differently long jaws.

SERIES 200-UM

2-jaw universal puller "Economy" in metal case

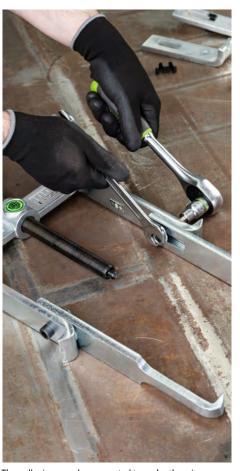


The 2-jaw universal puller "Economy" is also available in an extremely robust protective and transport case made of metal

APPLICATION EXAMPLES



The puller jaws are placed on the crossbar; a scale on the crossbar facilitates the correct adjustment of the distances.



The puller jaws can be connected to each other via a screw connection.



The 2-jaw universal puller "Economy" with extended puller jaws for increased reach depth.

巾

SERIES 200-U 2-JAW UNIVERSAL PULLER "ECONOMY" WITH DIFFERENTLY LONG PULLER JAWS IN THE SET



The 2-jaw universal puller "Economy" with a versatile combination puller jaw set is used for pulling bearings, gears, and discs in all common sizes in agriculture and workshops. It can loosen any component that is on a shaft and is freely accessible from the outside. The different lengths of the puller jaws allow the puller to be individually adjusted to the respective reach.

Benefits

- Multifunctional use thanks to four different pairs of jaws for individual adjustment to the respective reach
- Pulling jaws can be connected via screw connection up to a reach depth of 580 mm.
- Optional convertible from an external puller to an internal extractor by flipping the jaws.
- Secure attachment of the spindle through a rotatable spindle tip on both smooth surfaces and during centering (Switch Technology)

Technical attributes

#	4 021176		الل	SW 	P	Max. tractive force	Max. tensile force	i
	EAN	mm/inch	mm/inch	mm/inch	Nm/ft lb	t/US t. sh.	kN	kg/lb
200-U	-025433	0 - 250 0 - 9 7/8	180 7 1/8	22 7/8	120 88.51	5 5.51	50	6,96 15,347

SERIES 200-UM 2-JAW UNIVERSAL PULLER "ECONOMY" WITH DIFFERENTLY LONG PULLER JAWS IN A SET IN A METAL CASE



The 2-jaw universal puller "Economy" with a versatile combination of puller jaw set is used for pulling bearings, gears, and discs in all common sizes in agriculture and workshops. This allows for the loosening of any component mounted on a shaft and freely accessible from the outside. With the various lengths of puller jaws, the puller can be individually adjusted to the respective reach.

Benefits

- Multifunctional use thanks to four different pairs of jaws for individual adjustment to the respective reach
- Pulling jaws can be connected via screw connection up to a reach depth of 580 mm.
- Optional convertible from an external puller to an internal extractor by reversing the jaws.
- Safe setting up of the spindle using a rotatable spindle tip on both smooth surfaces and during centering (Switch Technology)

#		\Box	ťij	SW	Max. tensile force	Max. tractive force	i
	EAN	mm/inch	mm/inch	mm/inch	kN	t/US t. sh.	kg/lb
200-UM	-025501	0 - 250 0 - 9 7/8	180 7 1/8	22 7/8	50	5 5.51	8,92 19,669



The universal pullers of series 41 and 42 are suitable for non-destructive disassembly of various components (such as gears, ball bearings, pulleys, etc.). The swiveling jaws guarantee maximum freedom of movement for individual adjustment to the desired spread and depth, thereby allowing extraction in confined spaces.

Benefits

- Swiveling jaws enable work in confined spaces while simultaneously allowing for individual adjustment to the spread and reach.
- Secure setup of the spindle through the rotatable spindle tip on both smooth surfaces and during centering (applies from size 41-3)
- Integrated, free-moving pin on the T-handle guarantees manual spindle drive in the tightest of spaces (applies up to size 41-2)
- 3-jaw ensures an even distribution of force and enables greater pull-off forces (series 41-B and 42-B)

ASSEMBLY OF A UNIVERSAL PULLER USING EXAMPLE 41-3



SERIES 41

2-jaw universal puller with T-handle



The 2-jaw universal puller with free-moving pin on the T-handle is suitable for pulling operations in tight spaces. When delicately operating the spindle manually, exactly the force required for pulling is generated.

SERIES 41

2-jaw universal puller with hexagon



Due to its 2-arm design, the 41 series is suitable for pulling operations in restricted ambient conditions. The hexagon on the spindle head enables maximum power transmission.

BAUREIHE 41-B

2-jaw universal puller with hydraulic spindle



The hydraulic spindle ensures easy and controlled removal of particularly tightly seated components with minimal effort.

SERIES 42

3-jaw universal puller with T-handle



The benefit of the series 42 is the 3-jaw design, which allows for a particularly even force distribution. This results in even higher pull-off forces.

SERIES 42

2-jaw universal puller with hexagon



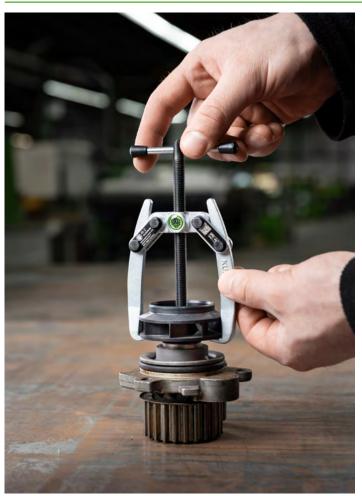
In addition to the advantage of the 3-jaw design, the puller features a dual spindle tip that allows for the processing of a wide variety of surfaces.

BAUREIHE 42-B

2-jaw universal puller with hydraulic spindle



The 42-B series guarantees a more even distribution of force and effortless removal of particularly stubborn components using the hydraulics, thanks to its 3-jaw design.



Removing a pump wheel from a water pump on the car with the 41-2



Dismantling a deflection pulley from a machine component with the 42-3 $\,$



Ball bearing disassembly from a drive shaft flange with hydraulic spindle



Removing a small ball bearing from an E-motor shaft with the 41-0 $\,$

SERIES 41 2-JAW UNIVERSAL PULLER WITH SWIVELING JAWS



Technical attributes

The 2-jaw universal puller with swiveling jaws is used for pulling bearings, gears, and discs in all common sizes for crafts, workshops, and industry. It allows for the loosening of any component that sits on a shaft and is externally accessible. The swiveling jaws also provide maximum freedom of movement for individual adjustment to the respective spread and depth, even in restricted environmental conditions. Within series 41, there are various versions of the puller. The compact model 41-0 features a hexagon drive and a flat pressure piece on the spindle. The models 41-1 and 41-2 have a freely movable T-handle instead of the hexagon, allowing for work in tight spaces. Starting from size 41-3, the pullers are equipped with a hexagon drive and a dual spindle tip. This allows for the largest pulling forces to be achieved (3 to 7 tons).

Benefits

- Swiveling puller jaws allow for work in tight spaces while simultaneously providing individual adjustment for spread and reach.
- Anti-slip safety (spindle neck) at the spindle head for safe work with wrench
- · Spindle outlet for thread protection
- Safe setup of the spindle via a rotatable spindle tip on both smooth surfaces and during centering (Switch Technology) (applies from size 41-3).

				0144		Max.		
#	4021176			SW 	P	tensile force	Max. tractive force	
	EAN	mm/inch	mm/inch	mm/inch	Nm/ft lb	kN	t/US t. sh.	kg/lb
41-0	-362859	0 - 60 1/2 - 2 3/8	40 1 5/8	13 1/2	25 18.44	10	1 1.10	0,25 0,551
41-1	-015038	0 - 65 1/2 - 2 5/8	65 2 5/8	T-handle	0.00	10	1 1.10	0,22 0,485
41-2	-015113	0 - 80 1/2 - 3 3/16	80 3 3/16	T-handle	0.00	15	1.5 1.65	0,25 0,551
41-3	-787829	0 - 90 5/8 - 4	120 4 3/4	13 1/2	40 29.50	30	3 3.31	0,66 1,455
41-4	-836268	0 - 130 3/4 - 5 1/8	160 6 3/8	17 11/16	85 62.70	50	5 5.51	1,38 3,043
41-5	-836343	0 - 180 1 1/32 - 7 1/8	200 7 7/8	22 7/8	150 110.64	70	7 7.72	3,28 7,232

SERIES 41-B 2-JAW UNIVERSAL PULLER WITH SWIVELING JAWS AND HYDRAULIC SPINDLE



Technical attributes

The 2-jaw universal puller with swiveling jaws and hydraulic spindle is used for pulling bearings, gears and discs in all common sizes for crafts, workshops, and industry. The hydraulic spindle achieves an average pulling force of up to 10 t. This allows for loosening any component that is mounted on a shaft and is freely accessible from the outside. The swiveling jaws also provide maximum freedom of movement for individual adaptation to the respective spread and depth, even under restricted environmental conditions. For pulling operations in tight spaces, the mechanical spindle can be utilized.

Benefits

- Swiveling puller jaws allow for work in tight spaces while simultaneously providing individual adjustment for spread and reach.
- The hydraulic spindle guarantees easy and controlled removal of particularly tight-fitting parts with minimal effort.
- In limited spatial conditions that require direct access to the component, the mechanical spindle can be used.
- The mechanical spindle features a rotatable spindle tip for safe placement on smooth surfaces and during centering.

#	4 021176			P	Max. tensile force	Max. tractive force	
	EAN	mm/inch	mm/inch	Nm/ft lb	kN	t/US t. sh.	kg/lb
41-5-B	-887345	0 - 180 1 1/32 - 7 1/8	200 7 7/8	15 11.06	100	10 11.02	4,875 10,749

SERIES 42 3-JAW UNIVERSAL PULLER WITH SWIVELING JAWS



The 3-jaw universal puller with swiveling jaws is used for pulling bearings, gears, and discs in all common sizes for crafts, workshops, and industry. It allows for the loosening of any component that is mounted on a shaft and accessible from the outside. The swiveling jaws also provide maximum freedom of movement for individual adaptation to the respective spread and depth, even in restricted environmental conditions. The 3-jaw design guarantees an even weight distribution and thus a particularly secure hold on the part being pulled. Within series 42, there are various designs of the puller. Up to model 41-2, the puller is equipped with a T-handle and a flat pressure piece for work in tight spaces. Starting from model 42-3, the puller features a hexagon drive and a dual spindle tip. This allows for achieving the highest pulling forces (3 to 7 tons).

Benefits

- Swiveling puller jaws allow for work in tight spaces while simultaneously providing individual adjustment for spread and reach.
- 3-jaw provides an even distribution of force and allows for greater pulling forces.
- Anti-slip safety (spindle neck) at spindle head for safe working with wrench.
- Spindle outlet to protect the thread.

Technical attributes

#	4021176		įήį	SW 	P	Max. tensile force	Max. tractive force	
	EAN	mm/inch	mm/inch	mm/inch	Nm/ft lb	kN	t/US t. sh.	kg/lb
42-0	-362026	0 - 60 1/2 - 2 3/8	40 1 5/8	13 1/2	25 18.44	15	1.5 1.65	0,27 0,595
42-1	-015298	0 - 65 1/2 - 2 5/8	65 2 5/8		0.00	15	1.5 1.65	0,295 0,650
42-2	-015373	0 - 80 1/2 - 3 3/16	80 3 3/16		0.00	15	1.5 1.65	0,33 0,728
42-3	-787904	0 - 90 5/8 - 4	120 4 3/4	13 1/2	40 29.50	30	3 3.31	0,87 1,918
42-4	-836428	0 - 130 3/4 - 5 1/8	160 6 3/8	17 11/16	85 62.70	50	5 5.51	2,8 6,174
42-5	-836596	0 - 180 1 1/32 - 7 1/8	200 7 7/8	22 7/8	150 110.64	70	7 7.72	4,295 9,470

SERIES 42-B 3-JAW UNIVERSAL PULLER WITH SWIVELING JAWS AND HYDRAULIC SPINDLE



Benefits
Swiveling puller jaws allow for work in tight spaces while simultaneously providing individual adjustment for spread and reach.
The hydraulic spindle guarantees easy and controlled removal of

confined spaces, the mechanical spindle can be used.

The 3-jaw universal puller with swiveling jaws and hydraulic spindle is used

for pulling bearings, gears, and discs in all common sizes for crafts, work-

shops, and industry. The hydraulic spindle achieves an average pulling

force of up to 10 tons. This allows any component that is mounted on a shaft and accessible from the outside to be loosened. The swiveling jaws

also provide maximum freedom of movement for individual adjustment to the respective spread and depth, even in restricted surroundings. The 3-jaw design guarantees a uniform load distribution and therefore a particularly secure grip on the part to be removed. For pulling operations in

particularly tight-fitting parts with minimal effort.
In limited spatial conditions that require direct access to the component, the mechanical spindle can be used.

 The mechanical spindle features a rotatable spindle tip for secure placement on smooth surfaces and during centering.

#	4021176	\Box		P	Max. tensile force	Max. tractive force	
	EAN	mm/inch	mm/inch	Nm/ft lb	kN	t/US t. sh.	kg/lb
42-5-B	-887352	0 - 180 1 1/32 - 7 1/8	200 7 7/8	15 11.06	100	10 11.02	5,695 12,557



There are pull processes that must be performed in tight spaces. To grasp installed parts, the heavy pullers of the series 46 and 47 are equipped with swiveling puller jaws. These guarantee maximum freedom of movement for individual adjustment to the desired spread and reach.

Benefits

- Swiveling jaws enable work in tight spaces while simultaneously allowing individual adjustment to the spread and depth.
- Kombi-crossbar can be used in both 2-jaw and 3-jaw configurations.
- · Anti-slip safety (spindle neck) at the spindle head for safe working with wrench.
- Spindle runout to protect the thread
- 3-jaw design ensures an even force distribution and allows for greater extraction forces (series 47)

BUILD-UP



SERIES 46



The series 46 is suitable for pulling operations in restricted environmental conditions. The swiveling puller jaws guarantee precise adjustment of the required spread and reach.

SERIES 47



The series 47 is also used in restricted environmental conditions. Thanks to the 3-jaw design, an even more uniform power distribution occurs.

SERIES 46-B



The series 46-B is recommended for extraction processes under restricted environmental conditions, where a medium pulling force of 15 t can be achieved with minimal effort.

SERIES 47-B



The series 47-B is used in confined space conditions and offers the advantages of hydraulics and 3-jaw design.

SERIES 46

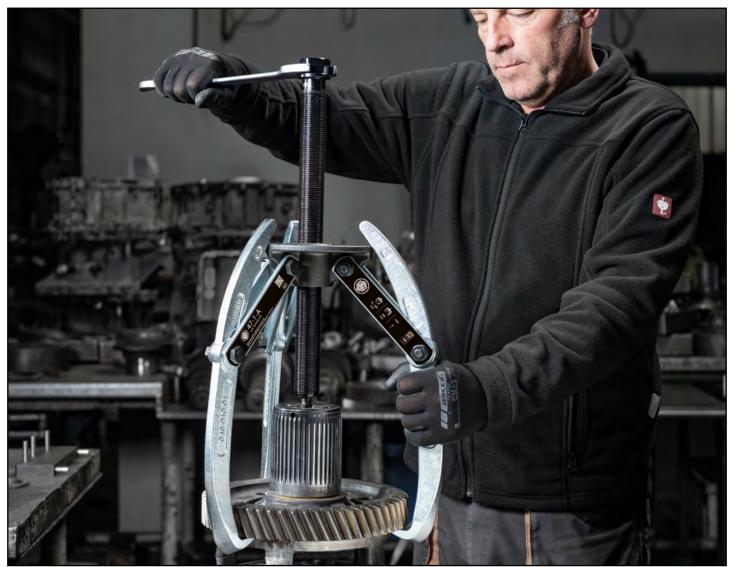
SERIES 47





The combination crossbar has the advantage that it can be used as a 2-jaw or 3-jaw puller. Depending on the installation situation, the puller can be converted with just a few manual steps. Another special feature of the combination crossbar is the brackets for the fall protection (series 660).

APPLICATION EXAMPLES



Removing a gear with the 47-1-A

SERIES 46 HEAVY, 2-JAW UNIVERSAL PULLER WITH SWIVELING PULLER JAWS AND COMBINATION CROSSBAR



The heavy, 2-jaw universal puller with swiveling jaws and combination crossbar is used to extract large bearings, gears, and discs in all common sizes for crafts, workshops, and industry. It allows for the loosening of any component that sits on a shaft and is accessible from the outside. The swiveling jaws also ensure maximum freedom of movement for individual adjustment to the respective spread and depth, even in constrained environmental conditions. Thanks to the combination crossbar, the puller can be used as both a 2-jaw and a 3-jaw puller.

Benefits

- Swiveling jaws allow for operation in the tightest spaces while simultaneously providing individual adjustment to the spread and depth.
- The crossbar can be used in both 2-jaw and 3-jaw versions.
- Anti-slip safety (spindle neck) at spindle head for safe working with wrench.
- · Spindle outlet to protect the thread

Technical attributes

#	4021176	\Box	$[\uparrow \downarrow]$	SW →	P	Max. tensile force	Max. tractive force	
	EAN	mm/inch	mm/inch	mm/inch	Nm/ft lb	kN	t/US t. sh.	kg/lb
46-1-A	-016936	0 - 300 1 3/8 - 11 7/8	300 11 7/8	36 1 7/16	450 331.92	120	12 13.23	10,125 22,326
46-2-A	-017193	0 - 500 1 3/8 - 19 3/4	450 17 3/4	36 1 7/16	450 331.92	120	12 13.23	12,235 26,978

SERIES 46-B HEAVY, 2-JAW UNIVERSAL PULLER WITH SWIVELING PULLER JAWS, COMBINATION CROSSBAR, AND HYDRAULIC SPINDLE



The heavy, 2-jaw universal puller with swiveling puller jaws, combination crossbar, and hydraulic spindle is used for pulling large, particularly stuck bearings, gears, and discs in all common sizes for trades, workshops, and industry. The hydraulic spindle achieves an average pulling force of up to 15 t. This allows for the loosening of any component that sits on a shaft and is accessible from outside. For pulling processes with pulling forces of up to 10 t and/or in confined spaces, the mechanical spindle can be used. The swiveling puller jaws also provide maximum freedom of movement to individually adjust to the respective spread and depth, even under restricted environmental conditions. Thanks to the combination crossbar, the puller can be used both as a 2-jaw and a 3-jaw puller.

Benefits

- Swiveling jaws allow for operation in the tightest spaces while simultaneously providing individual adjustment to the spread and depth.
- The crossbar can be used as both a 2-jaw and a 3-jaw.
- Hydraulic spindle ensures easy and controlled removal of particularly tight-fitting parts with minimal effort.
- In limited space conditions that require direct access to the component, the mechanical spindle can be used.

#			ψı	P	Max. tensile force	Max. tractive force	
	EAN	mm/inch	mm/inch	Nm/ft lb	kN	t/US t. sh.	kg/lb
46-1-B	-017018	0 - 300 1 3/8 - 11 7/8	300 11 7/8	450 331.92	150	15 16.53	19,22 42,380
46-2-B	-017278	0 - 500 1 3/8 - 19 3/4	450 17 3/4	450 331.92	150	15 16.53	16 35,280

SERIES 47 HEAVY 3-JAW UNIVERSAL PULLER WITH SWIVELING PULLER JAWS AND COMBINATION CROSSBAR



Benefits

· Swiveling jaws allow for operation in the tightest spaces while simultaneously providing individual adjustment to the spread and depth.

The heavy 3-jaw universal puller with pivoting puller jaws and combi-

nation crossbar is used to pull large bearings, gears, and discs in all com-

mon sizes for craft, workshop, and industry. It can release any component

that sits on a shaft and is freely accessible from the outside. The pivoting puller jaws provide maximum freedom of movement for individual ad-

aptation to the respective spread and depth, even in restricted environmental conditions. The 3-jaw design guarantees an even load distribution, ensuring particularly secure grip on the part being pulled. Thanks to the combination crossbar, the puller can also be used as a 2-jaw model.

- The crossbar can be used as both a 2-jaw and a 3-jaw.
- 3-jaw ensures an even force distribution and allows for greater pulling forces.
- Anti-slip safety (spindle neck) for safe working with wrench

Technical attributes

#		\Box	ťij	SW ↓	P	Max. tensile force	Max. tractive force	
	EAN	mm/inch	mm/inch	mm/inch	Nm/ft lb	kN	t/US t. sh.	kg/lb
47-1-A	-017681	0 - 300 1 3/8 - 11 7/8	300 11 7/8	36 1 7/16	450 331.92	120	12 13.23	12,25 27,011
47-2-A	-017841	0 - 500 1 3/8 - 19 3/4	450 17 3/4	36 1 7/16	450 331.92	120	12 13.23	14,68 32,369

SERIES 47-B HEAVY 3-JAW UNIVERSAL PULLER WITH SWIVELING PULLER JAWS, **COMBINATION CROSSBAR, AND** HYDRAULIC SPINDLE



and thus a particularly secure hold on the part being pulled. **Benefits** • Swiveling jaws allow for operation in the tightest spaces while

The heavy 3-jaw universal puller with swiveling jaws, combination crossbar,

and hydraulic spindle is used to pull large, particularly stuck bearings, gears,

and discs in all common sizes for crafts, workshops, and industry. The hydraulic spindle achieves an average pulling force of up to 15 tons. This allows any

component located on a shaft and freely accessible from the outside to be

loosened. For pulling processes with a pulling force of up to 10 tons and/or in confined spaces, the mechanical spindle can be used. The swiveling jaws

also provide maximum freedom of movement for individual adjustment to the respective spread and depth, even in restricted environmental conditions. Thanks to the combination crossbar, the puller can be used as both a 2-jaw and 3-jaw tool. The 3-jaw design guarantees an even load distribution

- simultaneously providing individual adjustment to the spread and depth.
- The crossbar can be used as both a 2-jaw and a 3-jaw.
- 3-jaw ensures an even force distribution and allows for greater pulling forces.
- Fat hydraulic spindle guarantees easy and controlled removal of particularly stubborn parts with minimal effort.

Technical attributes

#	4021176	t	ψl	P	Max. tensile force	Max. tractive force	
	EAN	mm/inch	mm/inch	Nm/ft lb	kN	t/US t. sh.	kg/lb
47-1-B	-017766	0 - 300 1 3/8 - 11 7/8	300 11 7/8	45 33.19	150	15 16.53	20,92 46,129
47-2-B	-017926	0 - 500 1 3/8 - 19 3/4	450 17 3/4	45 33.19	150	15 16.53	20,14 44,409

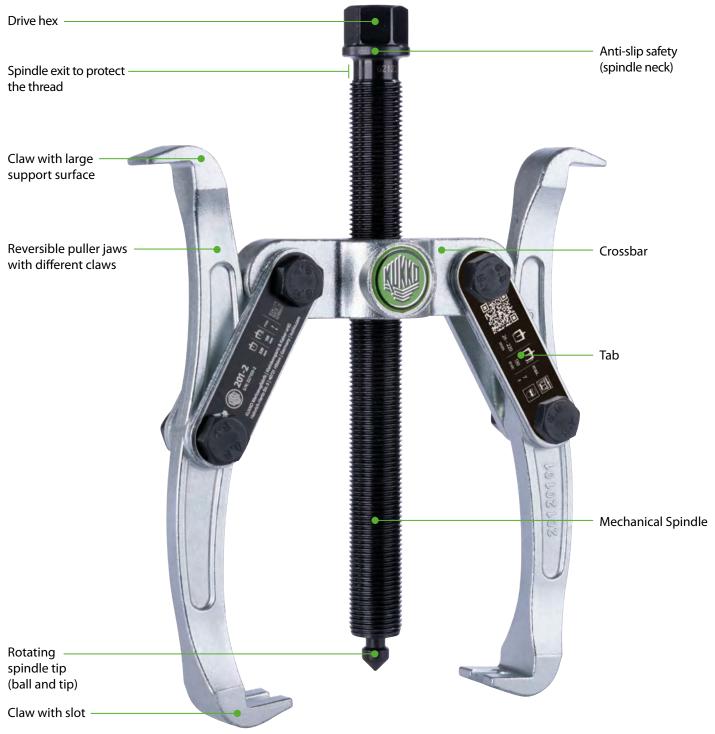


The 2-jaw and 3-jaw pullers are equipped with oscillating and reversible jaws and are used for centric extraction of bearings, gears, and discs in all common sizes for craftsmanship, workshop, and industry. This allows for the loosening of any component that sits on a shaft and is freely accessible from the outside. The oscillating jaws with adjustable reach guarantee maximum flexibility and are applicable on both sides. Depending on the version, the claw shape varies.

Benefits

- Adjustable and 180° rotatable jaws for individual adjustment of the reach
- Oscillating jaws offer a variety of adjustment options
- Puller jaws with different claw shapes for flexible working
- Claw end with slot provides support for screw for additional support when pulling off
- 3-iaw ensures an even force distribution and allows for greater pulling forces (series 202 and 203)
- Thanks to the combination crossbar, the puller can be used for 2-jaw and 3-jaw pulling (series 203)

ASSEMBLY OF A PULLER USING THE EXAMPLE OF THE 201-2



SERIES 201

2-jaw puller with oscillating and reversible puller jaws



201-1

The 201 series is suitable for extraction processes in restricted environmental conditions. The oscillating and reversible jaws guarantee various adjustment options for the jaws.

SERIES 202

3-jaw puller with oscillating and reversible jaws



202-2

The benefit of the series 202 is the 3-jaw design, which allows for a particularly even distribution of force. This enables even higher pull-out forces.

SERIES 203

3-jaw puller with oscillating and reversible jaws and crossbar



203-4

The special feature of the series 203 is the combination crossbar, which allows the puller to be used for both 2-jaw and 3-jaw pulling.

MULTI-CROSSBAR AND REVERSIBLE CLAWS



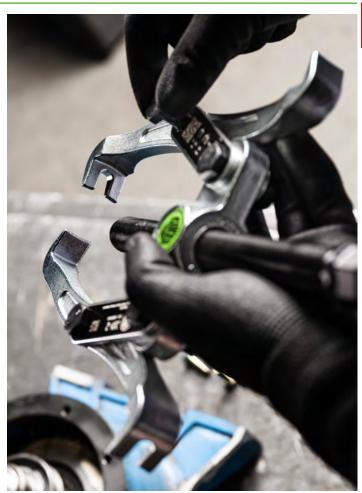


The pullers of series 203 feature a combination crossbar that can be used for both 2-jaw and 3-jaw pulling operations.





The oscillating jaws of the series 201, 202, and 203 can be perfectly positioned on the part to be pulled out.



The multiple drilling of the jaws allows for quick adjustment to the desired reach $% \left(1\right) =\left(1\right) \left(1\right$



3-jaw puller with combination crossbar for the removal of a gear from an electric motor



Thanks to the combination crossbar, the 203-0 can also be used for 2-jaw pulling after a short conversion.

SERIES 201 2-JAW TAB PULLER WITH OSCILLATING, REVERSIBLE PULLER JAWS





Hook with slot for the articles 201-2 and 201-3

The 2-jaw puller with oscillating and reversible jaws is used for centric pulling of bearings, gears, and discs in all common sizes for craft, workshop, and industry. This allows for the loosening of any component that sits on a shaft and is freely accessible from the outside. The oscillating jaws with adjustable reach are applicable on both sides. Depending on the design, the claw shape varies.

Benefits

- Adjustable and 180° rotatable puller jaws for individual adjustment of the reach.
- Oscillating puller jaws offer versatile adjustment options
- Puller jaws with different claw shapes for flexible working
- Claw end with slot provides support for screw for additional support when pulling off

Technical attributes

#	4 021176		ťij	SW 	P	Max. tensile force	Max. tractive force	i
	EAN	mm/inch	mm/inch	mm/inch	Nm/ft lb	kN	t/US t. sh.	kg/lb
201-0	-026423	0 - 100 5/8 - 3 7/8	75 3	13 1/2	25 18.44	15	1.5 1.65	0,43 0,948
201-1	-026591	0 - 150 3/4 - 5 7/8	85 3 3/8	17 11/16	75 55.32	50	5 5.51	0,86 1,896
201-2	-026676	0 - 220 1 1/32 - 8 5/8	130 5 1/8	22 7/8	150 110.64	70	7 7.72	2,44 5,380
201-3	-026751	0 - 300 1 1/2 - 11 7/8	260 10 1/4	27 1 1/16	250 184.40	100	10 11.02	5,28 11,642
201-4	-026836	0 - 380 1 1/2 - 15	300 11 7/8	27 1 1/16	250 184.40	100	10 11.02	5,62 12,392

SERIES 202 3-JAW PULLER WITH OSCILLATING, REVERSIBLE JAWS





Hook with slot for the articles 202-2 and 202-3

The 3-jaw puller with oscillating and reversible jaws is used for centralized extraction of bearings, gears, and discs in all common sizes for crafts, workshops, and industry. This allows the loosening of any component that sits on a shaft and is freely accessible from the outside. The oscillating jaws with adjustable reach can be applied on both sides. Depending on the design, the claw shape varies. The 3-jawed design ensures even load distribution and a particularly safe grip on the part being extracted.

Benefits

- Adjustable and 180° rotatable puller jaws for individual adjustment of the reach.
- Oscillating puller jaws offer a variety of adjustment options
- Pulling jaws with different claw shapes for flexible working.
- Claw end with slot provides support for screw for additional support when pulling off

#	4021176		ťij	SW 	P	Max. tensile force	Max. tractive force	i
	EAN	mm/inch	mm/inch	mm/inch	Nm/ft lb	kN	t/US t. sh.	kg/lb
202-0	-027093	0 - 100 5/8 - 3 7/8	75 3	13 1/2	25 18.44	15	1.5 1.65	0,59 1,301
202-1	-027178	0 - 150 3/4 - 5 7/8	85 3 3/8	17 11/16	75 55.32	50	5 5.51	1,17 2,580
202-2	-027253	0 - 220 1 1/32 - 8 5/8	130 5 1/8	22 7/8	150 110.64	70	7 7.72	2,98 6,571
202-3	-027338	0 - 300 1 3/16 - 11 7/8	260 10 1/4	27 1 1/16	250 184.40	100	10 11.02	6,775 14,939
202-4	-027413	0 - 380 1 3/16 - 15	300 11 7/8	27 1 1/16	250 184.40	100	10 11.02	7,135 15,733

SERIES 203 3-JAW PULLER WITH OSCILLATING, REVERSIBLE PULLER JAWS AND COMBINATION CROSSBAR





Hook with slot for the articles 203-2 and 203-3

The 2-jaw and 3-jaw puller with crossbar features oscillating and reversible jaws and is used for centric pulling of bearings, gears, and disks in all common sizes for craft, workshop, and industry. This allows for the removal of any component that sits on a shaft and is freely accessible from the outside. The swiveling jaws with adjustable spread are applicable on both sides. Depending on the design, the claw shape varies. Thanks to the crossbar, the puller can be used as both a 2-jaw and 3-jaw tool. The 3-jaw configuration ensures an even load distribution and thus a particularly secure grip on the part being extracted.

Benefits

- Thanks to the combination crossbar, the puller can be used for 2-jaw and 3-jaw pulling.
- Adjustable and 180° rotatable puller jaws for individual adaptation of the reach.
- Oscillating jaws offer a variety of adjustment options.
- Pulling arms with different jaw shapes for flexible working.

#	4021176	\Box	İΠ	SW	P	Max. tensile force	Max. tractive force		Included in the set
	EAN	mm/inch	mm/inch	mm/inch	Nm/ft lb	kN	t/US t. sh.	kg/lb	
203-0	-027666	0 - 120 5/8 - 4 3/4	75 3	13 1/2	25 18.44	15	1.5 1.65	0,66 1,455	-
203-1	-027741	0 - 180 3/4 - 7 1/8	85 3 3/8	17 11/16	75 55.32	50	5 5.51	1,26 2,778	224-678
203-2	-027826	0 - 280 1 1/32 - 11 1/32	130 5 1/8	22 7/8	150 110.64	70	7 7.72	3,1 6,836	224-677, 224-678
203-3	-027901	0 - 350 1 1/2 - 13 3/4	260 10 1/4	27 1 1/16	250 184.40	100	10 11.02	6,86 15,126	-
203-4	-028083	0 - 400 1 1/2 - 15 3/4	300 11 7/8	27 1 1/16	250 184.40	100	10 11.02	7,225 15,931	-



Extraction process of a camshaft gear with the 118-0 using the single-finger claws.





SERIES 205 | 206 | 207 HEAVY LIFTING PULLER



The heavy pullers are equipped with oscillating jaws. The advantage of these swinging jaws is that they can be adapted to various 🕕 installation situations – even in confined spaces. This guarantees maximum maneuverability for individual adjustment to the desired spread. Additionally, the reach can be individually adjusted via suspensions on the jaws.

Benefits

- · Adjustable puller jaws for individual adjustment of reach
- Oscillating jaws offer a variety of adjustment options
- Puller jaws with different claw shapes for flexible working
- Claw end with slot provides support for screw for additional support when pulling off
- Thanks to the combination crossbar, the puller can be used for 2-jaw and 3-jaw pulling (series 207)
- 3-jaw design ensures an even force distribution and allows for greater pulling forces (series 206 and 207)

ASSEMBLY OF A TAB PULLER



SERIES 205

2-jaw puller



The series 205 is suitable for extraction processes in restricted environmental conditions. The oscillating and height-adjustable jaws guarantee precise setting of the required spread and reach.

SERIES 206

3-jaw puller



The benefit of the 206 series is the 3-arm design, which enables particularly even force distribution. This enables even higher pull-off forces.

SERIES 207

3-jaw puller with crossbar



The special feature of the 207 series is the combination crossbar, which allows the puller to be used for both 2-jaw and 3-jaw extrac-

SERIES 205-B

2-jaw hydraulic puller



SERIES 206-B

3-jaw hydraulic puller



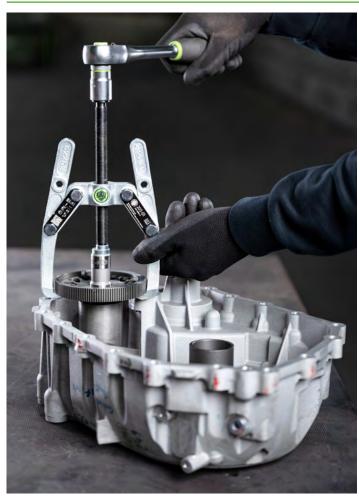
206-02-B

SERIES 207-B

3-jaw hydraulic puller with combo crossbar



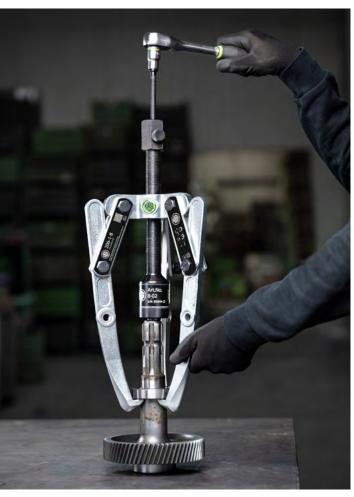
The pullers are also available with a hydraulic spindle that achieves a pulling force of up to 15 t. The hydraulic spindle guarantees easy and controlled extraction of particularly seized components with minimal effort.



Expansion of a gear wheel with the 205-01



Removing a ball bearing with the heavy tab puller 207-02 $\,$



Dismantling a ball bearing from a gear shaft using the hydraulic tabs puller 206-1-B



Removing a gear with the heavy tab puller 207-2

SERIES 205 HEAVY 2-JAW PULLER WITH OSCILLATING AND HEIGHT-ADJUSTABLE PULLER JAWS



Technical attributes

The heavy, 2-jaw puller with oscillating and height-adjustable jaws is used for the central extraction of large bearings, gears, and discs in all common sizes for crafts, workshops, and industry. This allows for loosening any component that is mounted on a shaft and accessible from the outside. The oscillating jaws adapt to any installation situation and can be universally used due to the adjustable reach. Depending on the version, the claw shape varies.

Benefits

- Adjustable puller jaws for individual adaptation of the reach.
- Oscillating puller jaws offer a variety of adjustment options
- Pulling jaws with different claw shapes for flexible working.
- Claw end with slot provides support for screw for additional support when pulling off

#	4 021176	$\bigoplus_{i=1}^{n}$	ťij	SW 	P	Max. tensile force	Max. tractive force	
	EAN	mm/inch	mm/inch	mm/inch	Nm/ft lb	kN	t/US t. sh.	kg/lb
205-00	-028571	0 - 100 5/8 - 3 7/8	100 3 7/8	13 1/2	50 36.88	35	3.5 3.86	0,485 1,069
205-01	-028656	0 - 150 3/4 - 5 7/8	150 5 7/8	17 11/16	120 88.51	50	5 5.51	1,35 2,977
205-02	-028731	0 - 250 1 1/32 - 9 7/8	220 8 5/8	22 7/8	150 110.64	70	7 7.72	2,545 5,612
205-1	-028816	0 - 300 1 1/2 - 11 7/8	280 11 1/32	27 1 1/16	280 206.53	100	10 11.02	5,5 12,128
205-2	-028991	0 - 400 1 1/2 - 15 3/4	400 15 3/4	27 1 1/16	300 221.28	100	10 11.02	6,71 14,796
205-3	-029073	0 - 500 1 1/2 - 19 3/4	540 21	27 1 1/16	320 236.03	120	12 13.23	8,545 18,842

SERIES 206 HEAVY, 3-JAW PULLER WITH OSCILLATING AND HEIGHT-ADJUSTABLE JAWS



Technical attributes

The heavy 3-jaw puller with oscillating and height-adjustable jaws is used for centric extraction of large bearings, gears, and discs in all common sizes for crafts, workshops, and industry. This allows you to remove any component sitting on a shaft that is freely accessible from the outside. The oscillating jaws adapt to any installation situation and are universally applicable due to the adjustable reach. Depending on the design, the shape of the jaws varies. The 3-jaw design guarantees an even load distribution and thus a particularly secure grip on the part being pulled.

Benefits

- Adjustable puller jaws for individual adjustment of reach depth
- Oscillating puller jaws offer a variety of adjustment options
- · Puller jaws with different claw shapes for flexible working
- Claw end with slot provides support for screw for additional support when pulling off

#	 	t i	ťij	SW	P	Max. tensile force	Max. tractive force	
	EAN	mm/inch	mm/inch	mm/inch	Nm/ft lb	kN	t/US t. sh.	kg/lb
206-00	-029158	0 - 100 5/8 - 3 7/8	100 3 7/8	13 1/2	50 36.88	35	3.5 3.86	0,65 1,433
206-01	-029233	0 - 150 3/4 - 5 7/8	150 5 7/8	17 11/16	120 88.51	50	5 5.51	1,42 3,131
206-02	-029318	0 - 250 1 1/32 - 9 7/8	220 8 5/8	22 7/8	150 110.64	70	5 5.51	3,36 7,409
206-1	-029493	0 - 300 1 1/2 - 11 7/8	280 11 1/32	27 1 1/16	280 206.53	100	10 11.02	7,25 15,986
206-2	-029561	0 - 450 1 1/2 - 15 3/4	400 15 3/4	27 1 1/16	300 221.28	100	10 11.02	8,845 19,503
206-3	-029646	0 - 500 1 1/2 - 19 3/4	540 21	27 1 1/16	320 236.03	120	12 13.23	12,75 28,114

SERIES 207 HEAVY, 3-JAW PULLER WITH OSCILLATING, HEIGHT-ADJUSTABLE PULLER ARMS AND COMBINED CROSSBAR



The heavy 2-jaw or 3-jaw puller with oscillating, height-adjustable pulling jaws and combination crossbar is used for concentric extraction of large bearings, gears, and discs in all common sizes for crafts, workshops, and industry. It can loosen any component that sits on a shaft and is freely accessible from the outside. The oscillating pulling jaws adapt to any installation situation and are universally applicable due to the adjustable reach. Thanks to the combination crossbar, the puller can be used in both 2-jaw and 3-jaw configurations. Depending on the design, the claw shape differs. The 3-jaw feature ensures even load distribution and thus a particularly secure grip on the part being extracted.

Benefits

- Adjustable Puller Jaws for Individual Adjustment of Reach Depth
- Oscillating puller jaws offer a variety of adjustment options
- Pulling jaws with different claw shapes for flexible working.
- Thanks to the crossbar, the puller can be used for 2-jaw and 3-jaw pulling.

#	 	†	ť	SW 	P	Max. tensile force	Max. tractive force	i
	EAN	mm/inch	mm/inch	mm/inch	Nm/ft lb	kN	t/US t. sh.	kg/lb
207-00	-029721	0 - 120 5/8 - 4 3/4	100 3 7/8	13 1/2	50 36.88	35	3.5 3.86	0,73 1,610
207-01	-029806	0 - 200 3/4 - 7 7/8	150 5 7/8	17 11/16	120 88.51	50	5 5.51	1,495 3,296
207-02	-029981	0 - 300 1 1/32 - 11 7/8	220 8 5/8	22 7/8	150 110.64	70	7 7.72	3,46 7,629
207-1	-030048	0 - 400 1 1/2 - 15 3/4	280 11 1/32	27 1 1/16	280 206.53	100	10 11.02	7,45 16,427
207-2	-030123	0 - 450 1 1/2 - 17 3/4	400 15 3/4	27 1 1/16	300 221.28	100	10 11.02	9,04 19,933
207-3	-030208	0 - 550 1 1/2 - 21 5/8	540 21	27 1 1/16	320 236.03	120	12 13.23	12,045 26,559

SERIES 205-B **HEAVY, 2-JAW PULLER WITH OSCILLATING, HEIGHT-ADJUSTABLE** PULLER ARMS AND HYDRAULIC **SPINDLE**



The heavy, 2-jaw puller with oscillating, height-adjustable puller arms and hydraulic spindle is used for central extraction of large, particularly stubborn bearings, gears, and discs in all common sizes for crafts, workshops, and industry. The hydraulic spindle achieves an average pulling force of up to 12 t. This allows for the loosening of any component that sits on a shaft and is freely accessible from the outside. For pulling operations with a pulling force of up to 10 t and/or in confined spaces, the mechanical spindle can be used. The oscillating puller arms adapt to any installation situation and are universally applicable due to the adjustable reach depth. Depending on the design, the claw shape differs.

Benefits

- Adjustable puller jaws for individual reach adjustment
- · Oscillating puller jaws offer a variety of adjustment options
- Puller jaws with different claw shapes for flexible working
- Claw end with slot provides support for screw for additional support when pulling off

Technical attributes

#	4021176	$\bigoplus_{i=1}^{n}$	الل	P	Max. tensile force	Max. tractive force	i
	EAN	mm/inch	mm/inch	Nm/ft lb	kN	t/US t. sh.	kg/lb
205-02-B	-886072	0 - 250 1 1/32 - 9 7/8	220 8 5/8	15 11.06	100	10 11.02	4,295 9,470
205-1-B	-886089	0 - 300 1 1/2 - 11 7/8	280 11 1/32	20 14.75	120	12 13.23	7,595 16,747
205-2-B	-886096	0 - 400 1 1/2 - 15 3/4	400 15 3/4	20 14.75	120	12 13.23	8,978 19,796
205-3-В	-886102	0 - 500 1 1/2 - 19 3/4	540 21 1/4	20 14.75	120	12 13.23	10,46 23,064

SERIES 206-B **HEAVY 3-JAW PULLER WITH OSCILLATING, HEIGHT-ADJUSTABLE** JAWS AND HYDRAULIC SPINDLE



Technical attributes

The heavy, 3-jaw puller with oscillating, height-adjustable puller arms and hydraulic spindle is used for centrically pulling large, especially seized bearings, gears, and discs in all common sizes for craft, industry, and workshop. The hydraulic spindle achieves an average pulling force of up to 12 t. This allows for the loosening of any component that is mounted on a shaft and is freely accessible from the outside. For pulling processes with a pulling force of up to 10 t and/or in confined space conditions, the mechanical spindle can be used. The oscillating puller arms adapt to any installation situation and are universally applicable due to the adjustable reach. Depending on the design, the claw shape differs. The 3-jaw design guarantees even load distribution and thus a particularly safe hold on the part to be pulled.

Benefits

- · Adjustable puller jaws for individual reach adjustment
- Oscillating puller jaws offer a variety of adjustment options
- Pulling jaws with different claw shapes for flexible working.
- Claw end with slot provides support for screw for additional support when pulling off

#	4021176		įή	P	Max. tensile force	Max. tractive force	i
	EAN	mm/inch	mm/inch	Nm/ft lb	kN	t/US t. sh.	kg/lb
206-02-В	-886119	0 - 250 1 1/32 - 9 7/8	220 8 5/8	15 11.06	100	10 11.02	5,24 11,554
206-1-B	-412448	0 - 300 1 1/2 - 11 7/8	280 11 1/32	20 14.75	120	12 13.23	9,285 20,473
206-2-B	-886126	0 - 450 1 1/2 - 15 3/4	400 15 3/4	20 14.75	120	12 13.23	9,42 20,771
206-3-B	-886133	0 - 500 1 1/2 - 19 3/4	540 21 1/4	20 14.75	120	12 13.23	14,095 31,079

SERIES 207-B
HEAVY, 3-JAW PULLER WITH
OSCILLATING, HEIGHT-ADJUSTABLE
PULLER ARMS, COMBINATION
CROSSBAR, AND HYDRAULIC
SPINDLE

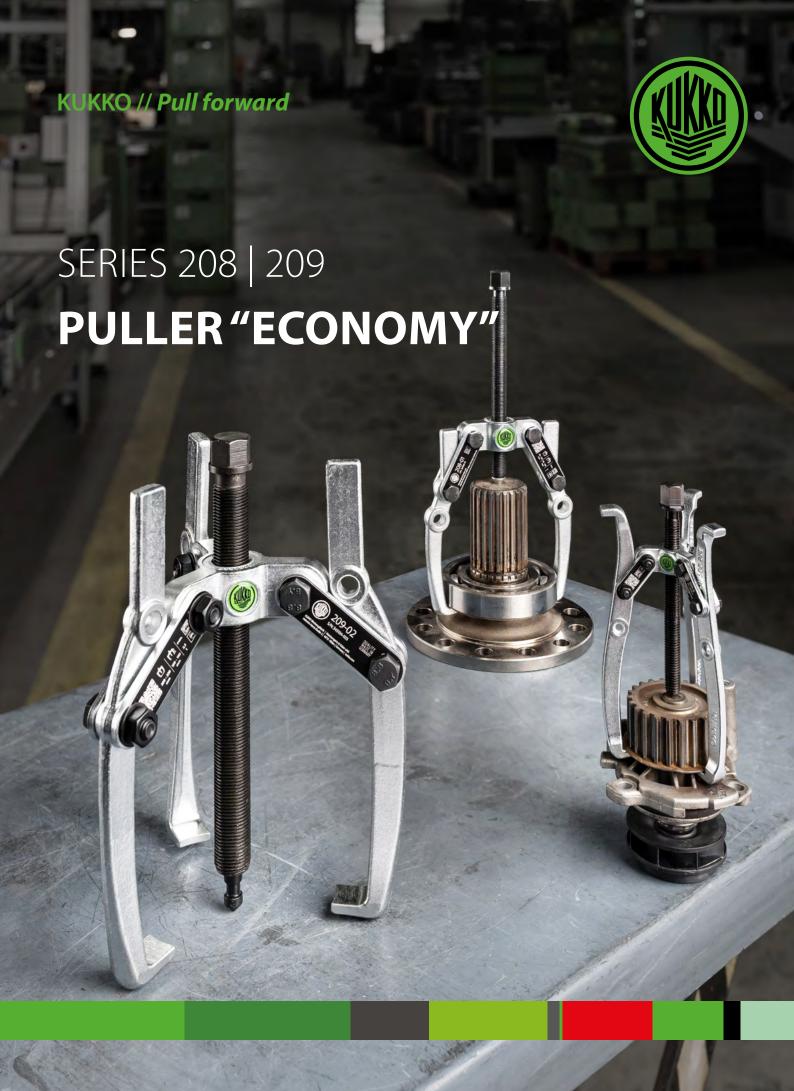


The heavy, 2-jaw or 3-jaw puller with oscillating, height-adjustable jaws, combo crossbar, and hydraulic spindle is used for centric removal of large, particularly stuck bearings, gears, and discs in all common sizes for craft, industry, and workshop. The hydraulic spindle achieves an average pulling force of a maximum of 12 t. This allows for loosening any component that is seated on a shaft and is freely accessible from the outside. For pulling operations with a pulling force of up to 10 t and/or in confined spaces, the mechanical spindle can be used. The oscillating jaws adapt to any installation situation and are universally applicable due to the adjustable reach. Thanks to the combo crossbar, the puller can be used as both a 2-jaw and 3-jaw puller. Depending on the design, the claw shape differs. The 3-jaw design guarantees an even load distribution and thus a particularly secure grip on the part being pulled.

Benefits

- · Adjustable puller jaws for individual reach adjustment
- Oscillating puller jaws offer a variety of adjustment options
- · Puller jaws with different claw shapes for flexible working
- Thanks to the crossbar, the puller can be used for 2-jaw and 3-jaw pulling.

#	######################################	Ţ,	ťh	P	Max. tensile force	Max. tractive force	i
	EAN	mm/inch	mm/inch	Nm/ft lb	kN	t/US t. sh.	kg/lb
207-02-В	-886140	0 - 300 1 1/32 - 11 7/8	170 6 3/4	15 11.06	100	10 11.02	4,99 11,003
207-1-B	-886157	0 - 400 1 1/2 - 15 3/4	230 9 1/16	20 14.75	120	12 13.23	9,405 20,738
207-2-В	-886164	0 - 450 1 1/2 - 17 3/4	350 13 3/4	20 14.75	120	12 13.23	10,8 23,814
207-3-B	-886171	0 - 550 1 1/2 - 21 5/8	490 19 3/8	20 14.75	120	12 13.23	14,31 31,554



The 2-jaw and 3-jaw pullers "Economy" of series 208 and 209 are equipped with oscillating, height-adjustable jaws. The curved and swiveling jaws adapt to any installation situation. In addition, the adjustability of the spread and reach offers maximum flexibility when pulling.

Benefits

- Adjustable puller jaws for individual adjustment of the reach thanks to multiple drilling in the puller jaws.
- Oscillating jaws offer a variety of adjustment options
- Puller arms with different claw shapes for flexible working (depending on model size)
- Safe mounting of the spindle through a swiveling spindle tip on both smooth surfaces and during centering (does not apply to items 208-0 and 209-0)
- 3-jaw ensures an even distribution of force and allows for greater pulling forces (series 209)
- · Hydraulic spindle guarantees an easy and controlled removal of particularly stuck parts with little effort (item number 208-2-B and 209-2-B)

ASSEMBLY OF A TAB PULLER USING EXAMPLE 208-0



SERIES 208



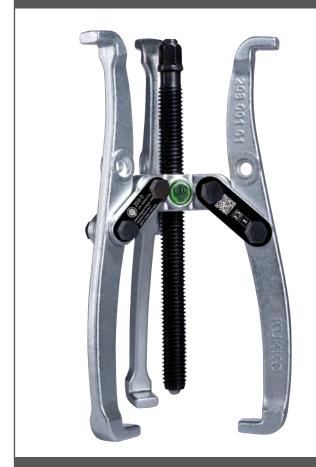
The 2-jaw puller "Economy" is suitable for pulling processes under restricted environmental conditions. The oscillating and height-adjustable jaws guarantee a precise adjustment of the spread and reach.

SERIES 208 (HYDRAULIC)



The 2-jaw puller "Economy" with hydraulic spindle guarantees easy pulling of particularly stubborn components without great effort. The 2-jaw design allows operation in confined spaces.

SERIES 209



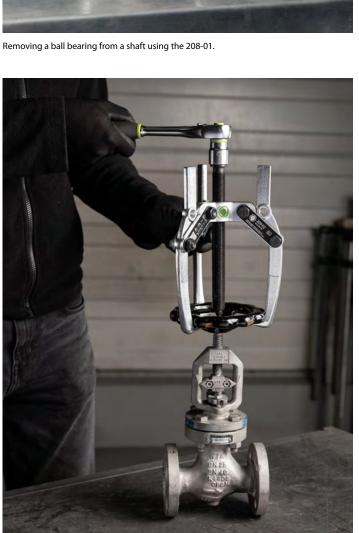
The 3-jaw puller "Economy" guarantees a particularly even distribution of force, allowing for even higher pulling forces. The oscillating and height-adjustable puller jaws ensure precise adjustment of the spread and reach.

SERIES 209 (HYDRAULIC)

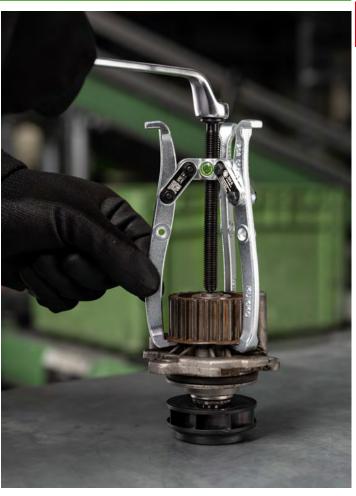


The 3-jaw puller "Economy" with hydraulic spindle ensures easy removal of particularly stubborn components without much effort. The 3-jaw design also provides even force distribution.





Removing the handwheel from a shut-off valve with the 209-02.



Removing a fan wheel with the 209-0.



Conversion for adjusting the reach depth and span using the example of the 208-01.

SERIES 208 2-JAW PULLER"ECONOMY"WITH OSCILLATING AND HEIGHTADJUSTABLE PULLER JAWS



The 2-jaw puller "Economy" with oscillating and height-adjustable jaws is used for pulling bearings, gears, and discs in all common sizes for crafts, workshops, and industry. The oscillating and curved jaws adapt to any installation situation and are universally applicable due to the adjustable reach and spread.

Benefits

- Adjustable puller jaws for individual adaptation of the reach due to multiple drilling in the puller jaws.
- · Oscillating puller jaws offer a variety of adjustment options.
- Safe installation of the spindle with a rotatable spindle tip on both smooth surfaces and during centering (Switch Technology)
- Anti-slip safety (spindle neck) at the spindle head for safe working with a wrench.

#	 	\Box	ťij	SW	P	Max. tensile force	Max. tractive force	i
	EAN	mm/inch	mm/inch	mm/inch	Nm/ft lb	kN	t/US t. sh.	kg/lb
208-01	-432408	0 - 170 3/4 - 6 3/4	95 4 7/8	17 11/16	20 14.75	20	2 2.20	1 2,205
208-02	-432651	0 - 230 3/4 - 9 1/16	150 7 1/2	22 7/8	50 36.88	25	2.5 2.76	2,49 5,490
208-0	-432248	12 - 100 1 3/16 - 3 7/8	50 3 7/8	13 1/2	20 14.75	10	1 1.10	0,5 1,103
208-2-B	-432811	64 - 400 4 3/8 - 15 3/4	225 15 3/4	12 1/2	20 14.75	120	12 13.23	0 0,000

SERIES 209 3-JAW PULLER"ECONOMY"WITH OSCILLATING AND HEIGHT-ADJUSTABLE JAWS



The 3-jaw puller "Economy" with oscillating and height-adjustable jaws is used for pulling bearings, gears, and discs in all common sizes for craft, workshop, and industry. The oscillating and curved jaws adapt to any installation situation and are universally applicable due to the adjustability of the reach and spread. The 3-jaw design ensures an even load distribution, providing a particularly secure hold on the part being pulled.

Benefits

- Adjustable puller jaws for individual adjustment of the reach due to multiple drilling in the puller jaws
- Oscillating puller jaws offer a variety of adjustment options
- Secure setup of the spindle through a rotatable spindle tip both on smooth surfaces and during centering (Switch Technology)
- 3-jaw ensures an even distribution of force and allows for greater pulling forces.

#	 	\Box	Įij	SW ↓	P	Max. tensile force	Max. tractive force	i
	EAN	mm/inch	mm/inch	mm/inch	Nm/ft lb	kN	t/US t. sh.	kg/lb
209-01	-432576	0 - 170 3/4 - 6 3/4	95 4 7/8	17 11/16	20 14.75	20	2 2.20	1,32 2,911
209-02	-432736	160 - 230 7 7/8 - 9 1/16	150 7 1/2	22 7/8	50 36.88	25	2.5 2.76	3,1 6,836
209-0	-432323	12 - 100 1 3/16 - 3 7/8	50 3 7/8	13 1/2	20 14.75	10	1 1.10	0,485 1,069
209-2-B	-432996	64 - 450 4 3/8 - 19 3/4	400 15 3/4		45 33.19	150	15 16.53	15,45 34,067

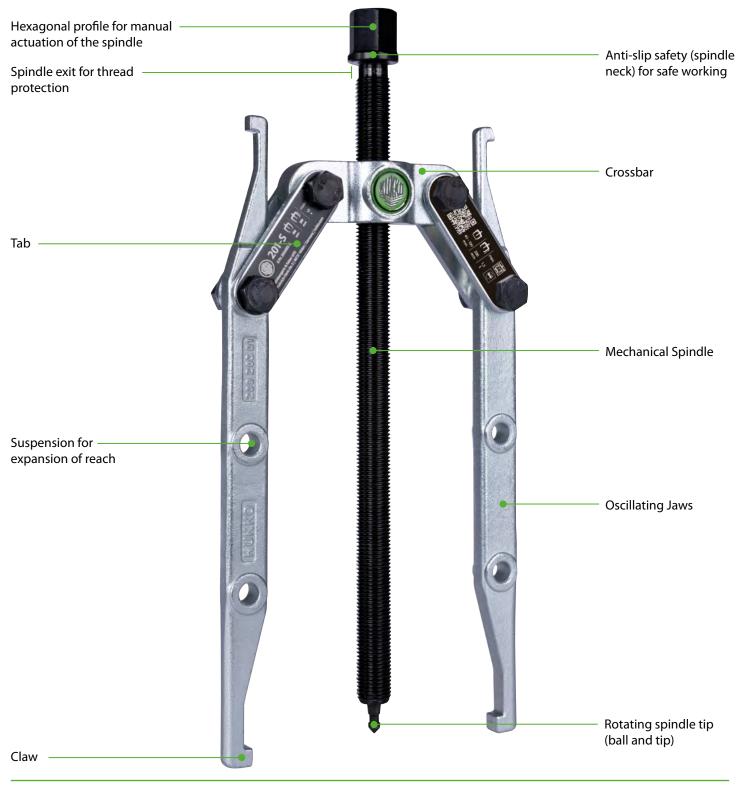


Thanks to the particularly slim design of the jaws, the tab puller is used for disassembling fan wheels. The swiveling legs adapt to any installation situation. Additionally, the jaws are rotatable by 180° and can be used on both sides, providing various claw sizes.

Benefits

- · Adjustable puller jaws for individual adjustment of the reach thanks to multiple drilling in the puller jaws.
- Oscillating jaws offer a variety of adjustment options
- Jaws are rotatable by 180° and can be used on both sides.
- Jaws with different claw sizes for flexible working
- 3-jaw ensures an even distribution of force and enables greater pulling forces (series 202-5)

ASSEMBLY OF A PULLER USING THE EXAMPLE 201-S



SERIES 201-S



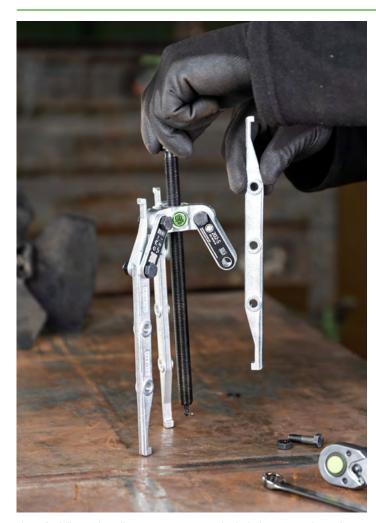
The 2-jaw puller for fan wheels is universally applicable even in tight spaces.

SERIES 202-S



The 3-jaw puller for fan wheels ensures an even distribution of force and thereby allows for even greater pulling forces.

APPLICATION EXAMPLES



The multi-drilling in the puller jaws guarantees an individual adjustment to the reach.



By rotating the jaws 180°, a different claw size can be pulled off.

SERIES 201-S 2-JAW PULLER FOR FAN WHEELS WITH OSCILLATING AND HEIGHT-ADJUSTABLE PULLER JAWS



The 2-jaw puller with oscillating and height-adjustable jaws is used for pulling fan wheels and propellers in all common sizes for crafts, workshops, and industry. Thanks to the particularly slim design, the jaws grip through the two slots and capture the flange of the fan. The oscillating jaws adapt to every installation situation and are universally applicable due to the adjustable reach. In addition, the jaws are 180° rotatable and can be used on both sides, allowing for different claw sizes depending on the space below the part to be pulled.

Benefits

- Adjustable puller jaws for individual adjustment of the reach due to multiple drilling in the puller jaws
- Oscillating puller jaws offer a variety of adjustment options.
- Jaws are rotatable by 180° and can be used on both sides.
- · Puller jaws with varying claw sizes for flexible work

Technical attributes

#	 	\Box	$[\!\![]\!\!]$	SW —	P	Max. tensile force	Max. tractive force	
	EAN	mm/inch	mm/inch	mm/inch	Nm/ft lb	kN	t/US t. sh.	kg/lb
201-5	-026911	11 - 200 3/4 - 7 7/8	200 7 7/8	17 11/16	30 22.13	15	1.5 1.65	1,16 2,558

SERIES 202-S 3-JAW PULLER FOR FAN WHEELS WITH OSCILLATING AND HEIGHT-ADJUSTABLE PULLER JAWS



The 3-jaw puller with oscillating and adjustable-length jaws is used for removing fan wheels and ship screws in all common sizes for crafts, workshops, and industry. Thanks to the particularly slim design, the jaws grip through the two slots and engage the flange of the fan. The oscillating jaws adapt to any installation situation and can be universally used thanks to the adjustable gripping depth. Additionally, the jaws can be rotated 180° and used on both sides, allowing for different jaw sizes depending on the space below the part to be removed. The 3-jaw design ensures even load distribution and thus a particularly secure hold on the part to be removed.

Benefits

- Adjustable puller jaws for individual adjustment of the reach due to multiple drilling in the puller jaws
- · Oscillating puller jaws offer a variety of adjustment options.
- The jaws are rotatable by 180° and can be used on both sides.
- Jaws with different claw sizes for flexible work

#	 	\Box	الل	SW 	P	Max. tensile force	Max. tractive force	i
	EAN	mm/inch	mm/inch	mm/inch	Nm/ft lb	kN	t/US t. sh.	kg/lb
202-S	-027581	11 - 200 3/4 - 7 7/8	200 7 7/8	17 11/16	35 25.82	20	2 2.20	1,74 3,837

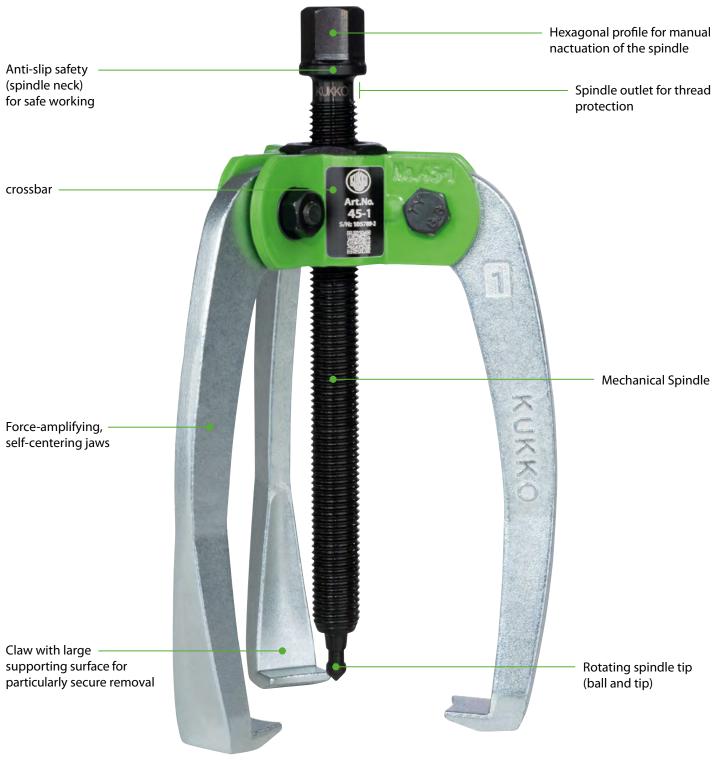


This product group includes both the handy small part pullers of series 43 and 43-1, as well as the particularly robust industrial pullers of series 44 and 45. The common feature of these pullers lies in the force-amplifying, self-centering jaws that are positioned by manually tightening the spindle.

Benefits

- Self-centering of the puller jaws by manual tightening of the spindle (Autogrip Technology)
- The slim design of the puller jaws allows access to hard-to-reach areas (series 43 and 43-1)
- Integrated, freely movable pen on the T-handle guarantees a manual spindle drive in the tightest spaces (series 43 and 43-1)
- Safe setup of the spindle through a rotatable spindle tip on both smooth surfaces and during centering (Switch Technology) (Series 44 and 45)
- 3-jaw design ensures an even distribution of forces and allows for greater pulling forces (series 43-1 and 45)

ASSEMBLY OF A PULLER USING EXAMPLE 45-1



SERIES 43



The handy 2-jaw puller from series 43 is used for feelingly pulling small components. The slim design and the freely movable pin on the T-handle guarantee extraction in the tightest spaces.

SERIES 43-10



The compact, 3-jaw puller of series 43-1 features the same characteristics as series 43. Additionally, the 3-jaw design ensures a more even force distribution and greater pulling forces.

SERIES 44



The robust 2-jaw industrial pullers of series 44 are used for powerful extraction of larger components. As the spindle pressure builds up, the part to be pulled is increasingly enclosed by the interconnected puller jaws.

SERIES 45



The robust, 3-jaw industrial pullers of series 45 have the same functionality as series 44. The difference lies in the 3-jaw design, which achieves a more even distribution of force and greater pulling forces.

With just a few adjustments, the mechanical spindle can be removed and replaced with a hydraulic spindle. This is demonstrated here using the example of the puller 45-8:



45-8 with mechanical spindle



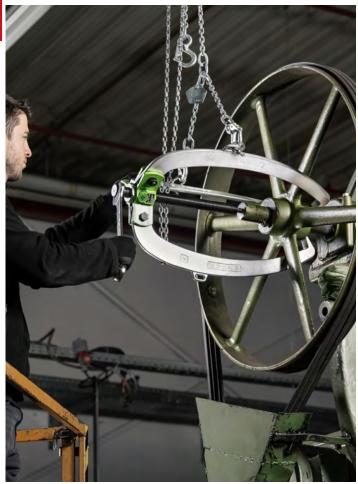
Inserting the hydraulic spindle



Removing the mechanical spindle



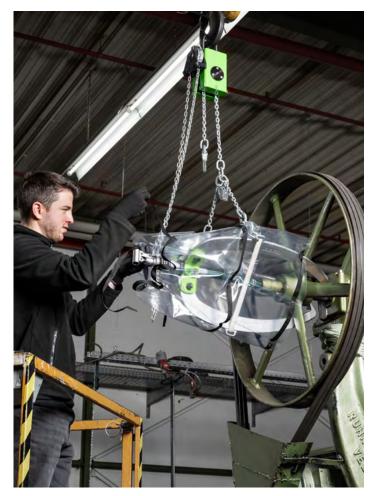
45-8 with hydraulic spindle



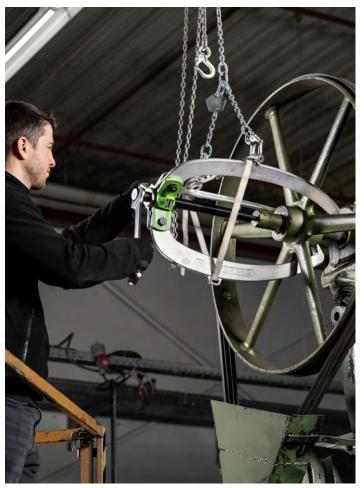
Removing a pulley with the 45-8 using a mechanical spindle. The puller is connected to the URANUS for locking and holding.



Removing a pulley with the 45-8 with hydraulic spindle



Use of the 45-8 with a safety tarp $\,$



An additional tension belt secures the jaws

SERIES 43 HANDY, 2-JAW PULLER WITH FORCE-AMPLIFYING, SELF-CENTERING JAWS



The handy 2-jaw puller with force-amplifying and self-centering jaws is used for the sensitive removal of small bearings, gears, and discs in tight, hard-to-reach spaces. The compact and space-saving design of the puller, with narrow jaws that widen towards the claw, is particularly suitable for electric motors. The freely movable pin on the T-handle ensures comfortable one-handed tightening of the spindle in the tightest of spaces.

Benefits

- Self-centering of the jaws through manual tightening of the spindle (Autogrip Technology)
- Integrated, freely movable pen on the T-handle ensures manual spindle drive in tight spaces
- The slim design of the jaws allows access to hard-to-reach areas.
- · No additional tool is needed for the pulling process.

Technical attributes

#		\Box	ťij	Max. tensile force	Max. tractive force	i	Included in the set
	EAN	mm/inch	mm/inch	kN	t/US t. sh.	kg/lb	
43-1	-015458	0 - 60 3/8 - 2 3/4	50 2 3/4	10	1 1.10	0,22 0,485	24-A, K-142/4, 24-B, K-142/6, K-22-A
43-2	-015861	0 - 70 3/8 - 2 3/8	70 2	10	1 1.10	0,24 0,529	-
43-3	-015946	0 - 80 3/8 - 3 3/16	80 3 3/16	10	1 1.10	0,265 0,584	-

SERIES 43-10 HANDY, 3-JAW PULLER WITH FORCE-AMPLIFYING, SELF-CENTERING JAWS



The handy 3-jaw puller with force-amplifying and self-centering jaws is used for the sensitive extraction of small bearings, gears, and discs in tight, hard-to-access spaces. The compact and space-saving design of the puller, with narrow jaws that widen towards the claw, is particularly suitable for electric motors. The freely movable pin on the T-handle ensures comfortable, one-handed tightening of the spindle in the tightest spaces.

Benefits

- Self-centering of the jaws through manual tightening of the spindle (Autogrip Technology)
- Integrated, free-moving pen on the T-handle guarantees manual spindle drive in tight spaces
- The slim design of the jaws allows access to hard-to-reach places.
- No additional tool is required for the pulling process.

#	 	\Box	山	Max. tensile force	Max. tractive force	i
	EAN	mm/inch	mm/inch	kN	t/US t. sh.	kg/lb
43-11	-015526	0 - 60 3/8 - 2 3/8	50 2	15	1.5 1.65	0,275 0,606
43-12	-015601	0 - 70 3/8 - 2 3/4	70 2 3/4	15	1.5 1.65	0,35 0,772
43-13	-015786	0 - 80 3/8 - 3 3/16	80 3 3/16	15	1.5 1.65	0,335 0,739

SERIES 43-0 HANDY 2-JAW AND 3-JAW PULLER WITH FORCE-AMPLIFYING AND SELF-CENTERING PULLER JAWS



The handy 2-jaw and 3-jaw puller with force-amplifying and self-centering pulling jaws is used for feelingly removing small bearings, gears, and discs in tight, hard-to-reach spaces. The compact and space-saving design of the puller with narrow jaws that widen towards the claw is particularly suitable for electric motors. The freely movable pin on the T-handle ensures comfortable, one-handed tightening of the spindle in the tightest spaces.

Benefits

- Self-centering of the jaws through manual tightening of the spindle (Autogrip Technology)
- Integrated, freely movable pen on the T-handle ensures manual spindle drive in tight spaces

Technical attributes

#	######################################		\Box	Max. tensile force	Max. tractive force		Included in the set
	EAN	mm/inch	mm/inch	kN	t/US t. sh.	kg/lb	
43-0-1	-023330	0 - 60 3/8 - 2 3/8	50 2	10	1 1.10	0,215 0,474	27-A
43-0-11	-023347	0 - 60 3/8 - 2 3/8	50 2	15	1.5 1.65	0,285 0,628	-

SERIES 44 HANDY 2-JAW INDUSTRIAL PULLER WITH FORCE-AMPLIFYING, SELFCENTERING JAWS



The handy 2-jaw industrial puller with force-amplifying and self-centering jaws is used for pulling bearings, gears, and discs in all common sizes for craft, workshop, and industry. It allows for the removal of any component seated on a shaft and freely accessible from the outside. When the spindle pressure is built up, the part to be pulled is increasingly gripped tighter by the interconnected jaws.

Benefits

- Self-centering of the jaws through manual tightening of the spindle (Autogrip Technology)
- Safe setup of the spindle through a swiveling spindle tip on both smooth surfaces and during centering (Switch Technology)
- Anti-slip safety (spindle neck) at the spindle head for safe working with a
 wrench
- Spindle outlet to protect the thread

Technical attributes

44-4

#	4021176	\Box	įή	SW 		P	Max. tensile force	Max. tractive force		COMPANDED
	EAN	mm/inch	mm/inch	mm/inch		Nm/ft lb	kN	t/US t. sh.	kg/lb	
44-1	-016028	0 - 100 1/2 - 3 7/8	100 3 7/8	13 1/2	M12 x 1,5	50 36.88	30	3 3.31	0,525 1,158	-
44-2	-016103	0 - 120 3/4 - 4 3/4	120 4 3/4	17 11/16	M14 x 1,5	85 62.70	50	5 5.51	1 2,205	-
44-3	-016288	0 - 160 7/8 - 6 3/8	160 6 3/8	19 3/4	M18 x 1,5	140 103.26	60	6 6.61	1,9 4,190	-
44-4	-016363	0 - 250 7/8 - 9 7/8	200 7 7/8	24 15/16	G 5/8 inch	190 140.14	70	7 7.72	3,28 7,232	8-HP-623, K- 8-HP-623
44-5 NEW	-815133	45 - 300 1 3/4 - 11 13/16	250 9 7/8	27 1 1/16	G 3/4 inch	200 147.52	95	9.5 10.47	5,2 11,466	8-HP-626, K- 8-HP-626, 8-0-626
44-6 NEW	-815218	55 - 375 2 3/16 - 14 3/4	280 11	27 1 1/16	G 3/4 inch	200 147.52	95	9.5 10.47	5,32 11,731	8-HP-626, K- 8-HP-626, 8-0-626
44-7 NEW	-007125	40 - 450 1 9/16 - 17 11/16	380 14 15/16	36 1 7/16	G 1 inch	400 295.04	120	12 13.23	11,86 26,151	8-HP-633, K-8-HP-633, 8-1-B, 8-1-F
44-8 NEW	-007132	100 - 650 3 15/16 - 25 9/16	500 19 11/16	36 1 7/16	G 1 inch	450 331.92	150	15 16.53	14,5 31,973	8-HP-633, K-8-HP-633, 8-1-B, 8-1-F

SERIES 45 HANDY, 3-JAW INDUSTRIAL PULLER WITH FORCE-AMPLIFYING, SELF-CENTERING PULLER JAWS



The compact 3-jaw industrial puller with force-amplifying and self-centering jaws is used for pulling bearings, gears, and discs in all common sizes for crafts, workshops, and industry. It allows for the loosening of any component that sits on a shaft and is freely accessible from the outside. When the spindle pressure is built up, the part to be pulled is increasingly gripped by the interconnected jaws. The 3-jaw design ensures an even load distribution, providing a particularly secure hold on the part to be removed.

Benefits

- Self-centering of the jaws through manual tightening of the spindle (Autogrip Technology)
- Safe positioning of the spindle through a rotatable spindle tip on both smooth surfaces and during centerings (Switch Technology)
- 3-jaw ensures an even force distribution and allows for greater pulling forces.
- Anti-slip safety (spindle neck) at the spindle head for safe working with a wrench.

#	4 021176	Ţ	įήį	SW		P	Max. tensile force	Max. tractive force	i	Table Market
	EAN	mm/inch	mm/inch	mm/inch		Nm/ft lb	kN	t/US t. sh.	kg/lb	
45-1	-016448	0 - 100 1/2 - 3 7/8	100 3 7/8	13 1/2	M12 x 1,5	50 36.88	40	4 4.41	0,665 1,466	-
45-2	-016516	0 - 120 3/4 - 4 3/4	120 4 3/4	17 11/16	M14 x 1,5	120 88.51	60	6 6.61	1,124 2,478	-
45-3	-016691	0 - 160 7/8 - 6 3/8	160 6 3/8	19 3/4	M18 x 1,5	180 132.77	80	8 8.82	2,45 5,402	-
45-4	-016776	0 - 250 7/8 - 9 7/8	200 7 7/8	24 15/16	G 5/8 inch	200 147.52	95	9.5 10.47	4,18 9,217	8-HP-623, K-8-HP-623
45-5 NEW	-815393	45 - 300 1 3/4 - 11 13/16	250 9 13/16	27 1 1/16	G 3/4 inch	200 147.52	95	9.5 10.47	6,51 14,355	8-HP-626, K-8-HP-626, 8-0-626
45-6 NEW	-815478	55 - 375 2 3/16 - 14 3/4	280 11 1/32	27 1 1/16	G 3/4 inch	200 147.52	95	9.5 10.47	6,95 15,325	8-HP-626, K-8-HP-626, 8-0-626
45-7 NEW	-821646	40 - 450 1 9/16 - 17 11/16	380 14 15/16	36 1 7/16	G 1 inch	400 295.04	120	12 13.23	15,75 34,729	8-HP-633, K-8-HP-633, 8-1-B, 8-1-F
45-8 NEW	-007149	100 - 650 3 15/16 - 25 9/16	500 19 11/16	36 1 7/16	G 1 inch	450 331.92	150	15 16.53	19,71 43,461	8-HP-633, K-8-HP-633, 8-1-B, 8-1-F



SERIES 482 483 48

HANDY PULLER WITH FORCE-AMPLIFYING, SELF-CENTERING, AND CLAMPING PULLER JAWS





The handy 2-jaw and 3-jaw pullers with force-amplifying, self-centering and tensioning puller jaws are used for pulling bearings, gears, and discs in tight and difficult-to-access spaces. The integrated force amplification with spring mechanism increases the clamping force in proportion to the pulling force. With the tightening of the spindle, the puller jaws are automatically centered.

Benefits

- Self-centering of the jaws through manual tightening of the spindle (Autogrip Technology)
- Integrated, freely movable pen on the T-handle guarantees manual spindle drive in tight spaces.
- The slim design of the jaws allows access to hard-to-reach places.
- The thread form allows for guick tightening of the spindle, as fewer rotations are required (series 482).
- The hexagon on the spindle is suitable for operation with powered tools (482-3 to 482-5, 483-3 to 483-5)

ASSEMBLY OF A PULLER USING THE EXAMPLE 482-3



SERIES 482

2-jaw puller with self-centering jaws



The handy, 2-jaw puller from the 482 series is used for disassembling hard-to-reach components.

SERIES 483

3-jaw puller with self-centering jaws



Thanks to the 3-jaw design, the pullers of series 483 provide a uniform distribution of force and thus enable even greater pulling forces.

SERIES 48

Single-handed puller



The handy, 2-jaw puller with selfcentering jaws is used for removing battery terminals.

APPLICATION EXAMPLES



Positioning the puller jaws on the component to be disassembled



Dismantling of a ball bearing from a gear wheel

SERIES 482 HANDY, 2-JAW PULLER WITH FORCE-AMPLIFYING, SELF-CENTERING, CLAMPING PULLER JAWS



The handy 2-jaw puller with force-amplifying, self-centering, and gripping jaws is used for removing bearings, gears, and discs in tight and hard-to-reach spaces. It allows for the removal of any component that sits on a shaft and is freely accessible from the outside. The built-in force amplification with spring mechanism increases the clamping force proportionally to the pulling force. By tightening the spindle, the jaws are automatically centered. The freely moving pin on the T-handle ensures a comfortable, one-handed tightening of the spindle in confined spaces.

Benefits

- Self-centering of the jaws through manual tightening of the spindle (Autogrip Technology)
- An integrated, free-moving pen at the T-handle ensures manual spindle drive in the tightest spaces.
- The slim design of the jaws allows access to poorly accessible areas.
- The thread design allows for a quick tightening of the spindle, as fewer rotations are required.

Technical attributes

#	4021176	\Box	įή	SW 	P	Max. tensile force	Max. tractive force	i	Included in the set
	EAN	mm/inch	mm/inch	mm/inch	Nm/ft lb	kN	t/US t. sh.	kg/lb	
482-1	-479779	0 - 60 5/8 - 2 3/8	40 1 5/8	T-handle	0.00	15	1.5 1.65	0,235 0,518	K-482
482-2	-479854	4 - 85 3/4 - 3 3/8	90 4	T-handle	0.00	15	1.5 1.65	0,36 0,794	K-482
482-3	-479939	4 - 150 3/4 - 5 7/8	150 5 7/8	13 1/2	35 25.82	25	2.5 2.76	0,875 1,929	K-482
482-4	-480096	0 - 200 3/4 - 7 7/8	200 7 7/8	17 11/16	40 29.50	30	3 3.31	1,68 3,704	-
482-5	-480171	0 - 250 3/4 - 9 7/8	250 9 7/8	17 11/16	40 29.50	30	3 3.31	1,92 4,234	-

SERIES 483 HANDY 3-JAW PULLER WITH FORCE-AMPLIFYING, SELF-CENTERING, CLAMPING PULLER JAWS



The handy 3-jaw puller with force-amplifying, self-centering, and straining jaws is used for pulling bearings, gears, and discs from tight and hard-to-reach spaces. This allows you to loosen any component that sits on a shaft and is freely accessible from the outside. The integrated force amplification with spring mechanism increases the clamping force proportionally to the pulling force. Tightening the spindle automatically centers the jaws. The 3-jaw design guarantees even load distribution and thus ensures a particularly secure grip on the part being pulled.

Benefits

- Self-centering of the jaws through manual tightening of the spindle (Autogrip Technology)
- The slim design of the jaws enables access to difficult-to-reach areas.
- 3-jaw ensures an even distribution of force and allows for greater pulling forces.
- Anti-slip safety (spindle neck) at the spindle head for safe working with a wrench.

#	 	$\overset{\bullet}{\square}$	ij	SW 	P	Max. tensile force	Max. tractive force	i
	EAN	mm/inch	mm/inch	mm/inch	Nm/ft lb	kN	t/US t. sh.	kg/lb
483-2	-480331	4 - 85 3/4 - 3 3/8	90 4	T-handle	0.00	15	1.5 1.65	0,425 0,937
483-3	-480416	4 - 150 3/4 - 5 7/8	150 5 7/8	13 1/2	35 25.82	25	2.5 2.76	1,16 2,558
483-4	-480584	0 - 200 3/4 - 7 7/8	200 7 7/8	17 11/16	40 29.50	30	3 3.31	1,72 3,793
483-5	-480669	0 - 250 3/4 - 9 7/8	250 9 7/8	17 11/16	40 29.50	30	3 3.31	2,395 5,281



K-482 3-PIECE, HANDY PULLER (2-JAW) SET



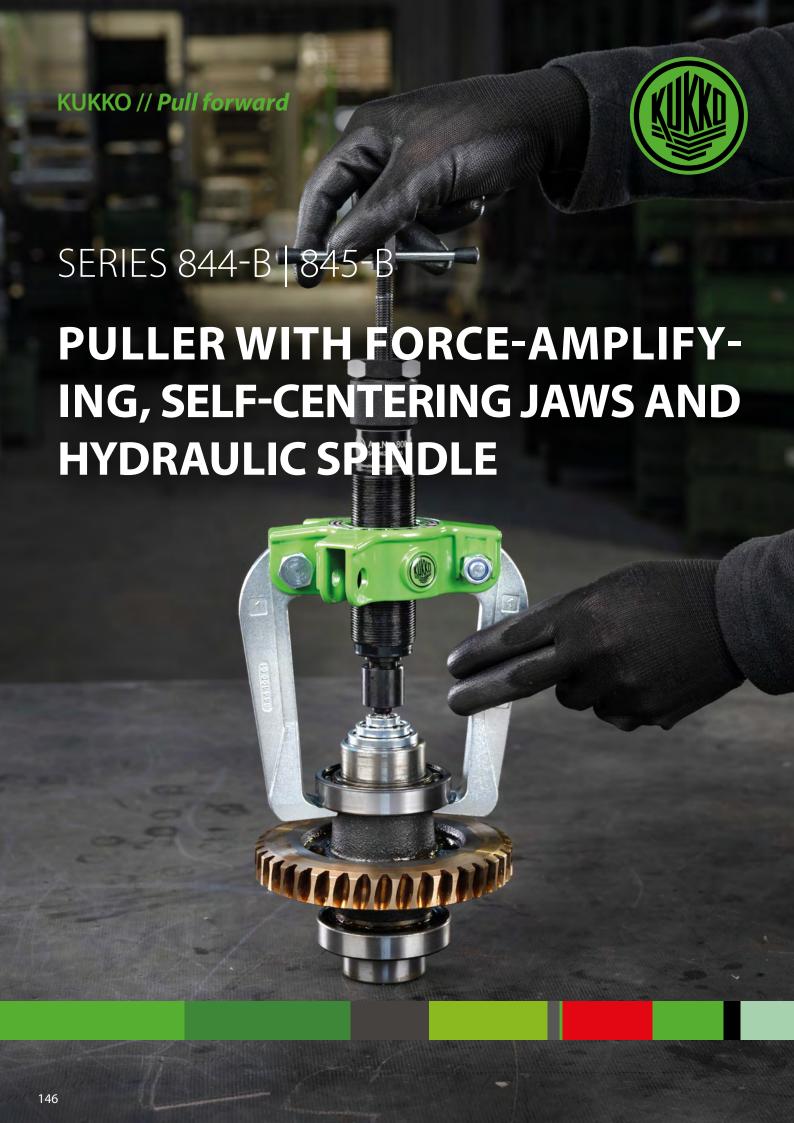
The 3-piece, handy puller with force-amplifying, self-centering, and tensioning jaws in the set is used for 2-jaw extraction of bearings, gears, and discs in tight and hard-to-reach spaces. This allows for the loosening of any component that sits on a shaft and is freely accessible from the outside. The integrated force amplification with spring mechanism increases the clamping force proportional to the extracting force. By tightening the spindle, the jaws are automatically centered. The freely movable Thandle on the spindle head ensures manual tightening of the spindle in confined spaces. The set includes three different sizes for use with varying spread and depths.

Benefits

- Application-oriented assembly for universal use
- By storing it in the box, the completeness of the set can be easily overviewed.
- The slim design of the jaws allows access to hard-to-reach areas.

#	4021176		İ	SW 	Max. tensile force	Max. tractive force		Components
	EAN	mm/inch	mm/inch	mm/inch	kN	t/US t. sh.	kg/lb	
K-482	-123245	0 - 150 0 - 5 7/8	0 - 150 0 - 5 7/8	13 1/2	25	2.5 2.76	2,44 5,380	482-1, 482-2, 482-3





The handy 2-jaw and 3-jaw pullers with force-amplifying, self-centering jaws and hydraulic spindle are used for pulling particularly stubborn bearings, gears, and discs in all common sizes for craft, workshop, and industry. When tightening the spindle, the jaws are automatically centered.

Benefits

- Self-centering of the puller jaws by manual tightening of the spindle (Autogrip Technology)
- Spindle extensions enable a quick adjustment to a wide variety of requirements
- The hydraulic spindle guarantees a light and controlled extraction of particularly stuck parts with low effort.
- The slim design of the jaws allows access to hard-to-reach places.

ASSEMBLY OF A PULLER USING THE EXAMPLE 844-3-B





SERIES 844-B



The fat-hydraulic spindle of series 800 is the motor of the puller and achieves a pulling force of 10 t. The spindle is ribbed on the sides to provide particularly good grip for fingers when repositioning.

SERIES 845-B



The 3-jaw design guarantees an even load distribution and thus provides a particularly secure grip on the part being pulled off.

APPLICATION EXAMPLES



Tensioning the puller by screwing in the hydraulic spindle at the knurling.



Actuation of the T-handle for the construction of hydraulic power

SERIES 844-B HANDY 2-JAW PULLER WITH FORCE-AMPLIFYING, SELF-CENTERING JAWS AND HYDRAULIC SPINDLE



Technical attributes

The handy 2-jaw puller with force-amplifying, self-centering puller jaws and hydraulic spindle is used for extracting particularly stubborn bearings, gears, and discs in all common sizes for craft, workshop, and industry applications. When the spindle is tightened, the puller jaws are automatically centered. The hydraulic spindle of series 800 is the motor of the puller and achieves a pulling force of 10 t. As a true powerhouse, the spindle stands out with a compact design, ease of use, and portable application. The spindle is ribbed on the sides to provide a particularly good grip for fingers when repositioning.

Benefits

- Self-centering of the jaws through manual tightening of the spindle (Autogrip Technology)
- Spindle extensions allow for a quick adaptation to a wide range of requirements.
- The hydraulic spindle guarantees easy and controlled removal of especially stuck parts with little effort.
- The slim design of the jaws allows access to hard-to-reach places.

recinited at	THE GIVES							
#	4021176			P	Max. tensile force	Max. tractive force		Included in the set
	EAN	mm/inch	mm/inch	Nm/ft lb	kN	t/US t. sh.	kg/lb	
844-1-B	-031601	26 - 100 2 - 3 7/8	100 3 7/8	40 29.50	100	10 11.02	3,39 7,475	845-150, 845-855, 845-858, 845-851
844-2-B	-031946	51 - 150 3 - 5 7/8	150 5 7/8	40 29.50	100	10 11.02	4,045 8,919	845-150, 845-855, 845-858, 845-851
844-3-B	-032448	39 - 150 3 - 5 7/8	250 9 7/8	40 29.50	100	10 11.02	4,92 10,849	845-851, 845-855, 845-858, 845-250
844-4-B	-076091	64 - 200 3 7/8 - 7 7/8	200 7 7/8	40 29.50	100	10 11.02	4,9 10,805	845-250, 845-855, 845-858, 845-851
844-5-B	-032776	96 - 250 5 1/8 - 9 7/8	250 9 7/8	40 29.50	100	10 11.02	5,12 11,290	845-250, 845-851, 845-855, 845-858

SERIES 845-B HANDY 3-JAW PULLER WITH FORCE-AMPLIFYING, SELF-CENTERING JAWS AND HYDRAULIC SPINDLE



Technical attributes

The handy 3-jaw puller with force-amplifying, self-centering jaws and hydraulic spindle is used for pulling especially tight-fitting bearings, gears, and discs in all common sizes for crafts, workshops, and industry. By tightening the spindle, the jaws are automatically centered. The hydraulic spindle of the 800 series is the motor of the puller and achieves a pulling force of 10 t. As a true power wonder, the spindle impresses with its compact design, easy usability, and portable application. The spindle is ribbed on the sides to provide a particularly good grip for fingers when repositioning. The 3-jaw design guarantees an even load distribution and thus a particularly secure hold on the part to be pulled off.

Benefits

- Self-centering of the jaws through manual tightening of the spindle (Autogrip Technology)
- Spindle extensions allow for a quick adaptation to a wide range of requirements.
- The hydraulic spindle guarantees easy and controlled removal of especially stuck parts with little effort.
- The slim design of the jaws allows access to hard-to-reach places.

#	4021176		ť	P	Max. tensile force	Max. tractive force		Included in the set
	EAN	mm/inch	mm/inch	Nm/ft lb	kN	t/US t. sh.	kg/lb	
845-1-B	-033278	26 - 100 2 - 3 7/8	100 3 7/8	40 29.50	100	10 11.02	4,11 9,063	845-150, 845-855, 845-858, 845-851
845-2-B	-033438	75 - 150 3 - 5 7/8	150 5 7/8	40 29.50	100	10 11.02	2 4,410	845-150, 845-855, 845-858, 845-851
845-3-B	-033681	39 - 150 3 - 5 7/8	250 9 7/8	40 29.50	100	10 11.02	5,99 13,208	845-250, 845-851, 845-855, 845-858
845-4-B	-033841	64 - 200 3 7/8 - 7 7/8	200 7 7/8	40 29.50	100	10 11.02	5,96 13,142	845-250, 845-855, 845-858, 845-851
845-5-B	-034008	96 - 250 5 1/8 - 9 7/8	250 9 7/8	40 29.50	100	10 11.02	6,6 14,553	845-851



845-150 11-PIECE HYDRAULIC "4 PULLER" SET WITH SELF-CENTERING JAWS



The 11-piece hydraulic "4 Puller" set with self-centering jaws is used for pulling bearings, gears, discs, etc. in crafts, industry, and workshops. The set includes pullers, hydraulic spindle, jaws, as well as 2-jaw and 3-jaw combo crossbars that can be combined into four different pullers through the easily interchangeable, multiple combinable individual parts.

Benefits

- By storing it in the box, the completeness of the set can be easily overviewed.
- Pullers of series 800 use the same hydraulic spindle and require no additional accessories.
- For the series 800, there are numerous easily exchangeable and combinable individual parts and supplements.

Technical attributes

#	4 021176	\Box	Ţ	Max. tensile force	Max. tractive force		Components
	EAN	mm/inch	mm/inch	kN	t/US t. sh.	kg/lb	
845-150	-717871	26 - 150 1 1/32 - 5 7/8	0 - 150 0 - 5 7/8	100	10 11.02	9,66 21,300	800, 845-004, 844-020, 800-050, 800-100, 844-100, 844-150

845-250 15-PIECE, HYDRAULIC "6 PULLER" SET WITH SELF-CENTERING JAWS



The 15-piece hydraulic "6 Puller" set with self-centering jaws is used for pulling bearings, gears, discs, etc. in craft, industry, and workshops. The set includes pullers, hydraulic spindle, hooks, as well as 2-jaw and 3-jaw combination crossbars that can be combined into six different pullers through easily interchangeable, multifunctional individual components.

Benefits

- By storing it in the box, the completeness of the set can be easily overviewed.
- The pullers of the series 800 use the same hydraulic spindle and require no additional accessories.
- For the series 800, there are numerous easily exchangeable and combinable individual parts and supplements.

#	4021176	$\qquad \qquad $	\Box	Max. tensile force	Max. tractive force		Components
	EAN	mm/inch	mm/inch	kN	t/US t. sh.	kg/lb	
845-250	-717956	39 - 250 1 9/16 - 9 13/16	0 - 250 0 - 9 13/16	100	10 11.02	15,57 34,332	800, 845-004, 844-020, 800-050, 800-100, 800-150, 844-200, 844-250, 844-251

845-851 21-PIECE HYDRAULIC "10 PULLER" SET WITH SELF-CENTERING JAWS



The 21-piece hydraulic "10 Puller" set with self-centering puller jaws is used for pulling bearings, gears, discs, etc. in crafts, industry, and workshops. The set includes pullers, hydraulic spindles, jaws, as well as 2-jaw and 3-jaw combo crossbars, which can be combined into ten different pullers through the easily interchangeable, multiple combinable individual parts.

Benefits

- By storing it in the box, the completeness of the set can be easily overviewed.
- The pullers of the series 800 use the same hydraulic spindle and require no additional accessories.
- For the series 800, there are numerous easily exchangeable and combinable individual parts and supplements.

Technical attributes

#	4021176			Max. tensile force	Max. tractive force	i	Components
	EAN	mm/inch	mm/inch	kN	t/US t. sh.	kg/lb	
845-851	-172854	26 - 250 1 1/32 - 9 13/16	0 - 250 0 - 9 13/16	100	10 11.02	19,72 43,483	800, 845-004, 844-020, 800-050, 800-100, 800-150, 844-100, 844-150, 844-250, 844-251

845-855 29-PIECE HYDRAULIC UNIVERSAL PULLER SET





The 29-piece hydraulic universal puller set with separating device and self-centering jaws from series 845-855 is used for pulling and separating bearings, gears, discs, etc. in crafts, industry, and workshops. As a set of the modular series 800, it provides various hydraulic pulling options while maintaining modularity. The set includes not only the required pulling device and additional tension bolt extensions but also the corresponding modules for 2-jaw and 3-jaw pulling and separating. With the ten different pullers included in the set, high adaptability is ensured, especially for external extraction.

Benefits

- Application-oriented assembly for universal use
- By storing it in the box, the completeness of the set can be easily overviewed.
- Through the ten different pullers, spans of 50-250 mm are covered, making suitable pullers available for most pulling situations.

#	######################################	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	Max. tensile force kN	Max. Tractive force t/US t. sh.	kg/lb	Components
845-855	-172939	26 - 250 1 1/32 - 9 13/16	0 - 250 0 - 9 13/16	85 - 270 3 3/8 - 10 5/8	780 30 11/16	25 - 155 1 - 6 1/8	100	10 11.02	37 81,585	800, 800-050, 800-100, 800-150, 844-020, 844-100, 844-150, 844-200, 844-250, 844-251, 845-004, Y-215-3, 818-820, 818-250, 818-280

845-858 34-PIECE HYDRAULIC UNIVERSAL PULLER SET





The 34-piece hydraulic universal puller and extractor set with self-centering puller jaws and separating device from series 845-858 is used for pulling, separating, and internal extraction of bearings, gears, disks, etc. in crafts, industry, and workshops. As a set of the modular system series 800, it allows for various hydraulic pulling options while maintaining consistent modularity. The set includes not only the required puller device and additional puller extensions but also the corresponding modules for 2-jaw and 3-jaw pulling, internal extraction, and separating pulling, providing suitable options for most pulling situations. The ten different pullers included in the set ensure high adaptability, especially during external extraction.

Benefits

- Application-oriented assembly for universal use
- By storing it in the box, the completeness of the set can be easily overviewed.
- Through the ten different pullers, spans of 50-250 mm are covered, thus making suitable pullers available for most extraction situations.

#	4021176		Ţ					Max. tensile force	Max. Tractive force	i	Components
	EAN	mm/ inch	mm/ inch	mm/ inch	mm/ inch	mm/ inch	mm/ inch	kN	t/ US t. sh.	kg/lb	
845-858	-173011	26 - 250 1 1/32 - 9 13/16	0 - 250 0 - 9 13/16	30 - 180 1 3/16 - 7 1/16	85 - 270 3 3/8 - 10 5/8	780 30 11/16	25 - 155 1 - 6 1/8	100	10 11.02	37 81,585	800, 800-050, 800-100, 800-150, 844-020, 844-100, 844-150, 844-250, 844-251, 845-004, Y-215-3, 818-820, 818-250, 818-280, 818-021

巾

SERIES 820 2-JAW PULLER WITH HYDRAULIC SPINDLE (TENSION FORCE UP TO 10 T)



The 2-jaw puller with hydraulic spindle is used for safely pulling particularly stubborn bearings, gears, and discs in all common sizes for handcraft, workshop, and industry. The hydraulic spindle of series 800 is the motor of the puller and achieves a tension force of 10 t. As a true powerhouse, the spindle impresses with a compact design, easy usability, and portable application. The spindle is ribbed on the sides to provide particularly good grip for the fingers when resetting.

Benefits

- The screw connection allows for easy loosening and particularly tight tightening of the puller jaws with a hex key.
- The hydraulic spindle guarantees easy and controlled pulling of particularly stubborn parts with minimal effort.
- Application also for eccentric components through free-moving, sliding puller jaws on the crossbar.
- Variable adjustment for any spread between 85 mm 225 mm

Technical attributes

#	4021176	\Box		P	Max. tensile force	Max. tractive force		Included in the set
	EAN	mm/inch	mm/inch	Nm/ft lb	kN	t/US t. sh.	kg/lb	
820-0	-173684	85 - 225 3 3/8 - 8 7/8	225 8 7/8	40 29.50	100	10 11.02	7,24 15,964	818-215

818-215 20-PIECE, HYDRAULIC BEARING REMOVING AND INSTALLATION SET

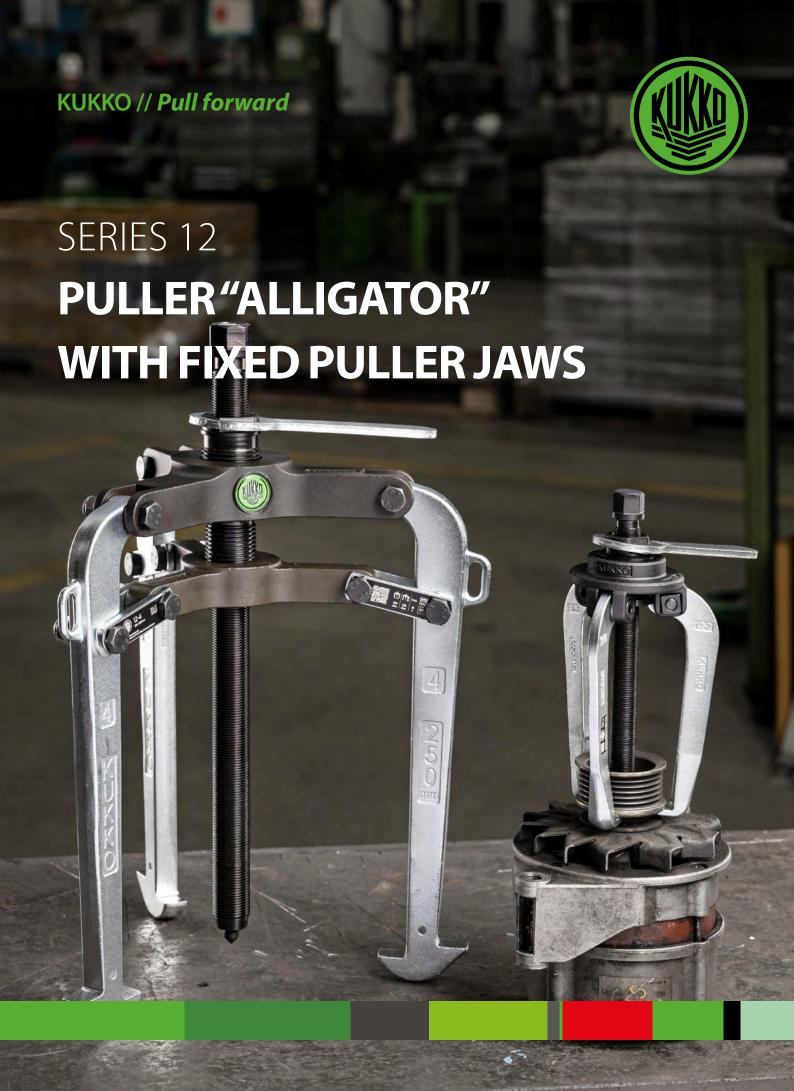


The 8883-piece hydraulic bearing puller and extractor set of the series 818-215 is used for pulling and internal extraction of ball bearings, roller bearings, inner rings, and other flush-mounted parts in craft, industry, and workshop, when there is not enough space for puller jaws. As a set of the modular series 800, it enables various hydraulic pulling possibilities while maintaining modularity. The set includes, in addition to the necessary puller device and complementary pull bolt extensions, also the matching modules for 2-jaw pulling, internal extraction, and separator pulling, providing suitable options for most pulling situations.

Benefits

- · Application-oriented assembly for universal use
- By storing it in the box, the completeness of the set can be easily overviewed.
- The hydraulics enable high pulling performance with low effort.

#	4021176	\Box	الل		†	†††		Max. tensile force	Max. tractive force	i	Compo- nents
	EAN	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	kN	t/US t. sh.	kg/lb	
818-215	-173271	85 - 225 3 3/8 - 8 7/8	225 8 7/8	30 - 180 1 3/16 - 7 1/16	85 - 270 3 3/8 - 10 5/8	780 30 11/16	22 - 155 7/8 - 6 1/8	100	10 11.02	27,12 59,800	800, 800-050, 800-100, 800-150, 818-250, 818-279, 818-280, 818-820, 820-225-P, Y-215-2, Y-215-3, 818-021

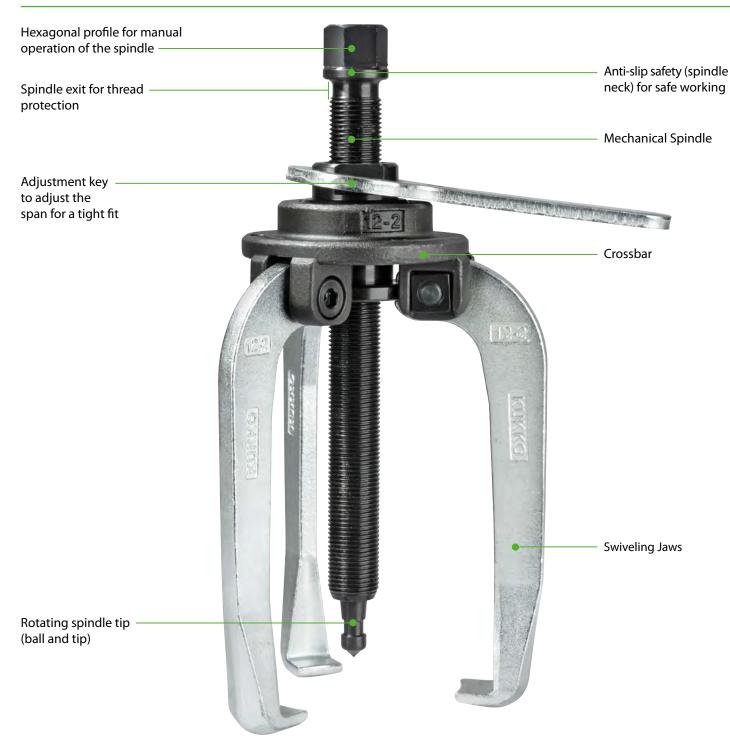


The 3-jaw puller "Alligator" with fixed puller jaws and anti-slip safety is used for pulling particularly tightly seated bearings, gears, discs, etc. in all common sizes for crafts, workshops, and industry. This allows any component that sits on a shaft and is freely accessible from the outside to be loosened. By tightening the key, the puller jaws are automatically centered and securely clamped. This prevents slipping and movement of the jaws.

Benefits

- The Alligator translation guarantees that the jaws can only be opened and closed by operating the adjustment key.
- The key ensures a force-amplifying fixation of the puller without slipping or deviating of the jaws.
- Self-centering of the jaws by tightening the key
- · Safe setup of the spindle through a rotating spindle tip on both smooth surfaces and during centering (Switch Technology)
- Anti-slip safety (spindle neck) for safe working with wrench

ASSEMBLY OF THE PULLER USING EXAMPLE 12-1



SERIES 12



The 3-jaw puller "Alligator" with fixed puller jaws and anti-slip safety is used for pulling particularly seized bearings, gears, and discs.

SERIES 12-A



The 3-jaw puller "Alligator" with adjustable puller jaws is equipped with a hook support on the inside and outside. This makes it versatile for use as an external extractor as well as an internal extractor.

APPLICATION EXAMPLES



Removing a pulley from a car generator



Dismantling a ship propeller with the 12-2

SERIES 12 3-JAW PULLER "ALLIGATOR" WITH FIXED JAWS AND ANTI-SLIP SAFETY





The 3-jaw puller "Alligator" with fixed jaws and anti-slip safety is used for pulling particularly stubborn bearings, gears, and discs in all common sizes for craft, workshop, and industry. This allows for loosening any component that is seated on a shaft and is freely accessible from the outside. By tightening the key, the puller jaws are forced to be centered and tightened securely. This prevents slipping or movement of the jaws.

Benefits

- The Alligator puller guarantees that the jaws can only be opened and closed by operating the tensioning key.
- The key ensures a force-strong fixing of the puller without dropping off or deviating of the jaws.
- · Self-centering of the jaws by tightening the key
- Safe positioning of the spindle through the rotatable spindle tip on both smooth surfaces and during centering (Switch Technology)

Technical attributes

#	4021176	\Box	ťij	SW 	P	Max. tensile force	Max. tractive force	i
	EAN	mm/inch	mm/inch	mm/inch	Nm/ft lb	kN	t/US t. sh.	kg/lb
12-1	-006616	0 - 100 3/4 - 3 7/8	100 3 7/8	17 11/16	180 132.77	80	8 8.82	1,24 2,734
12-2	-006791	9 - 150 1 3/8 - 5 7/8	125 4 7/8	19 3/4	190 140.14	90	9 9.92	1,72 3,793
12-3	-006876	16 - 200 2 - 7 7/8	165 6 1/2	24 15/16	250 184.40	100	10 11.02	3,5 7,718

SERIES 12-A 3-JAW PULLER WITH ADJUSTABLE EXTRACTOR JAWS FOR INTERNAL AND EXTERNAL EXTRACTION

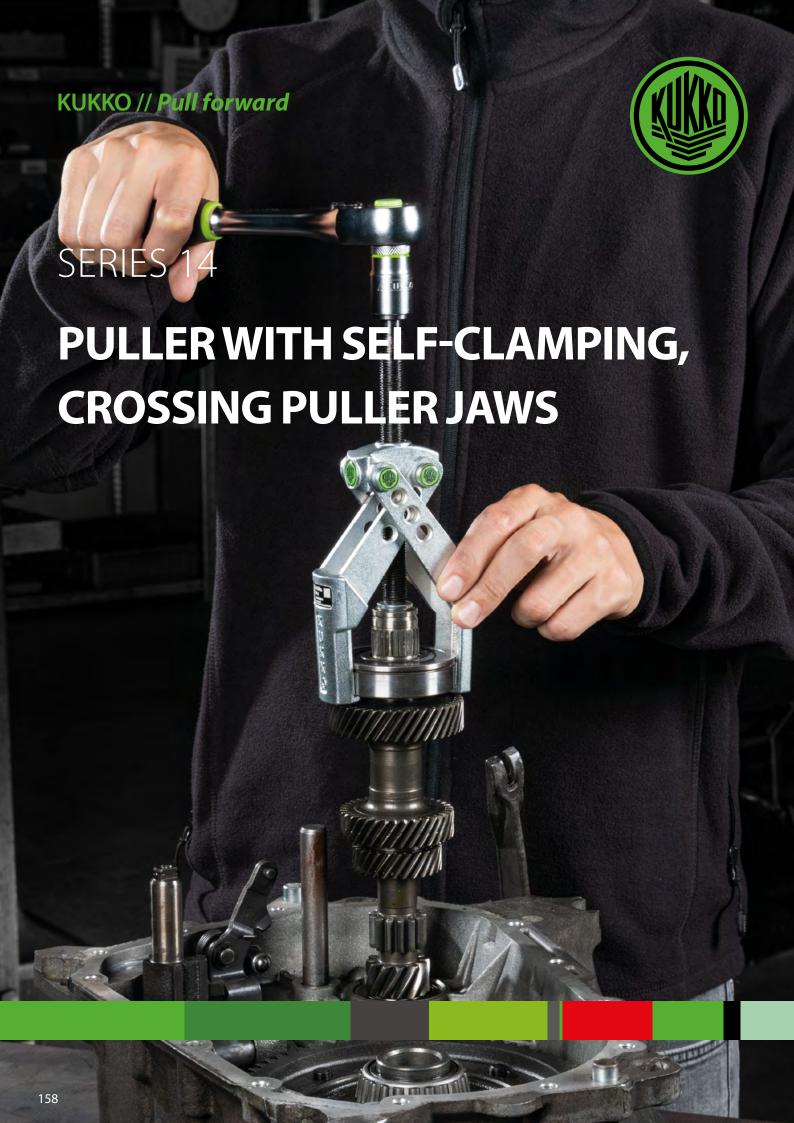


The 3-jaw puller with adjustable puller jaws for external and internal extraction is used for pulling bearings, gears, discs, etc. in all common sizes for crafts, workshops, and industry. This allows for the loosening of any component that either sits on a shaft and is freely accessible from the outside or is fitted internally and thus needs to be pulled differently. The models are equipped with one jaw support on the inside and the outside, allowing them to be used for both external pulling and internal extraction.

Benefits

- The cross hooks ensure maximum stability for suspending the jaws in the sliding piece (Armlock Technology)
- The three-jaw design ensures even load distribution and a particularly secure hold.
- Smooth adjustment of the symmetrically tensioning arms to the required spread with a key allows for variable application.
- · Also usable as a mobile press

#	 	\Box	Ţ	SW 	P	Max. tensile force	Max. tractive force	i
	EAN	mm/inch	mm/inch	mm/inch	Nm/ft lb	kN	t/US t. sh.	kg/lb
12-4	-850509	0 - 250 0 - 9 7/8	225 8 7/8	27 1 1/16	300 221.28	100	10 11.02	11,99 26,438
12-5	-850684	0 - 350 0 - 13 3/4	275 10 7/8	27 1 1/16	300 221.28	100	10 11.02	13,485 29,734
12-6	-850769	0 - 450 0 - 17 3/4	300 11 7/8	36 1 7/16	280 206.53	150	15 16.53	32,5 71,663
12-7	-850844	0 - 650 0 - 25 5/8	350 13 3/4	36 1 7/16	280 206.53	150	15 16.53	40 88,200

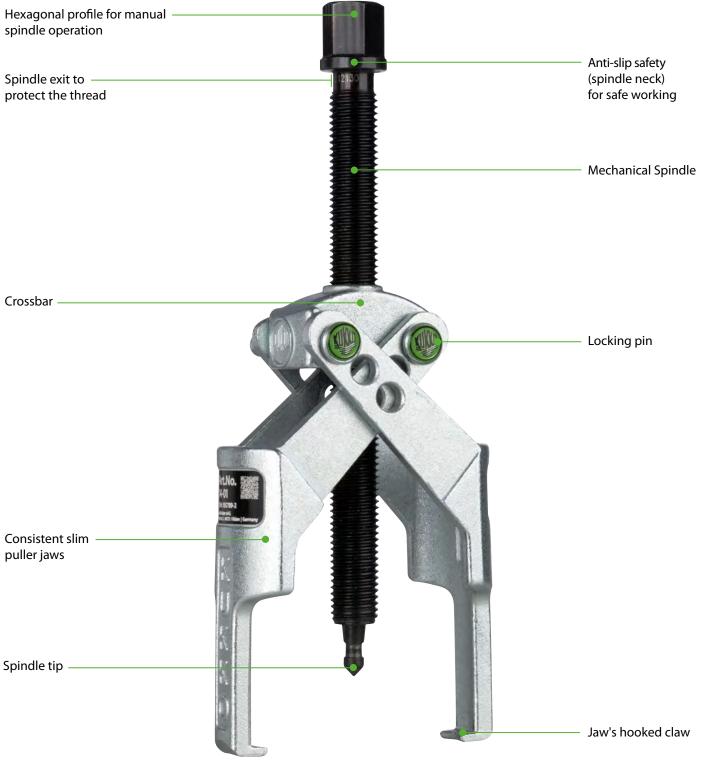


The special feature of the series 14 is the intersecting puller jaws with hooked claws. During the pulling process, the scissor-like hook guidance presses the hooked claws against the part to be pulled off. This allows even the tightest gaps between sprockets, bearings, and similar components to be reached. Furthermore, the pullers are characterized by an extremely high span range due to their design.

Benefits

- Quick and easy assembly of the jaws
- Extremely high span range due to variable mounting of the jaws
- Span width and reach depth can be individually adjusted.
- In cramped conditions, the two puller jaws can first be mounted, and in the second step, they can be secured with a crossbar and retaining pins.

ASSEMBLY OF THE PULLER USING EXAMPLE 14-1



locking pin

The self-locking stopping pins guarantee a quick and easy adjustment for variable spread ranges. Spread and reach can be individu-



Manually removable locking pins



New combining of the individual components and reversing the jaws



The legs are adjusted and the locking pin is inserted.

APPLICATION EXAMPLES



The scissor-like hook guide ensures a secure hold. The claws encompass the pulley.



Removing a ball bearing from a gearbox shaft.



The uncrossing of the puller jaws greatly increases the span range.

SERIES 14 2-JAW PULLER WITH SELF-CLAMPING, CROSSING PULLER JAWS



The 2-jaw puller with self-gripping, intersecting puller arms is used for extracting sprockets, pulleys, bearings, and similar components in tight spaces. Self-locking retaining pins ensure quick and easy adjustment for variable spread ranges. The puller is self-gripping and simple to handle. During the pulling process, the scissor-like arm guidance firmly presses the claws against the part to be pulled. This provides a secure hold at all times.

Benefits

- · Fast and easy assembly of the jaws
- Extremely high spread range due to variable mounting of the jaws
- Span width and span depth can be individually adjusted.
- In confined spaces, the two jaws can be mounted first and then fixed in the second step with a crossbar and retaining pins.

Technical attributes

#	4021176I		الل	SW 	P	Max. tensile force	Max. tractive force	i
	EAN	mm/inch	mm/inch	mm/inch	Nm/ft lb	kN	t/US t. sh.	kg/lb
14-1	-455421	0 - 100 1/4 - 3 7/8	85 3 3/8	13 1/2	50 36.88	25	2.5 2.76	0,475 1,047
14-2	-248443	2 - 140 3/8 - 5 1/2	125 4 7/8	17 11/16	80 59.01	35	3.5 3.86	1,6 3,528
14-3	-248511	5 - 140 5/8 - 5 1/2	160 6 3/8	17 11/16	100 73.76	45	4.5 4.96	1,28 2,822

SERIES 14-S 2-JAW PULLER WITH NARROW, SELF-CLAMPING, CROSSING PULLER JAWS



The 2-jaw puller with narrow, self-gripping, intersecting jaws is used for extracting sprockets, pulleys, bearings, and similar components in tight spaces. Self-locking retaining pins ensure quick and easy adjustment for variable span ranges. The puller is self-gripping and easy to handle. During the extraction process, the scissor-like arm guidance presses the claws firmly against the part being pulled. This ensures a secure grip at all times.

Benefits

- Fast and easy assembly of the jaws
- Extremely high spread range due to variable mounting of the jaws
- · Span width and span depth can be individually adjusted.
- In confined spaces, the two jaws can be mounted first and then fixed in the second step with a crossbar and retaining pins.

#	4 021176	\Box	Ţ	SW 	P	Max. tensile force	Max. tractive force	i
	EAN	mm/inch	mm/inch	mm/inch	Nm/ft lb	kN	t/US t. sh.	kg/lb
14-01	-459559	0 - 100 1/4 - 3 7/8	85 3 3/8	13 1/2	30 22.13	10	1 1.10	0,45 0,992
14-02 NEW	-774300	0 - 140 1/4 - 5 1/2	125 6 3/8	17 11/16	30 22.13	10	1 1.10	1,06 2,337
14-03	-460111	0 - 140 1/4 - 5 1/2	160 6 3/8	17 11/16	40 29.50	20	2 2.20	1,12 2,470



SERIES 112 113

PULLER FOR ROLLING BEARINGS WITH CONE KNOB

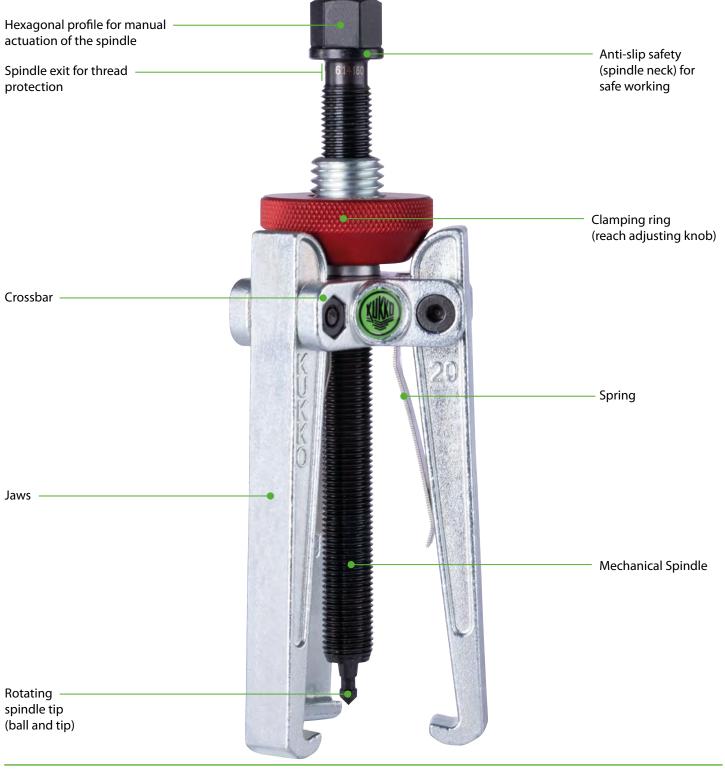


The 2-jaw and 3-jaw pullers with cone knobs have been developed for the proper removal of rolling bearings in collaboration with a Scandinavian ball bearing manufacturer. Both the proportions and the consistently straight puller jaws are specifically tailored to the requirements for concentric pulling of small and medium-sized bearings.

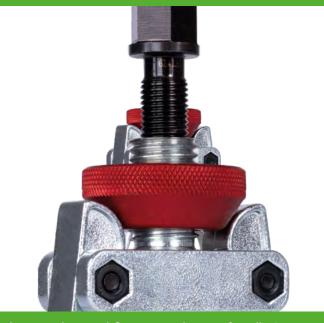
Benefits

- Automatic self-centering of the jaws by tightening the clamping ring
- The clamping ring and suspension ensure a force-locking fixation of the puller without skipping or deviating of the jaws.
- Claw-shaped leg end encompasses the bearing in a shape-fitting manner.
- In identical pulling processes, the spread only needs to be set once.
- Spindle exit to protect the thread

ASSEMBLY OF A PULLER USING EXAMPLE 113-3



SERIES 112



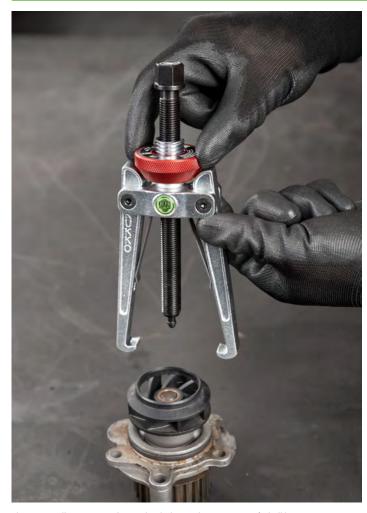
The central manual fixation via the user-friendly Spannring ensures that the shaft's bearing seat and the bearing are removed safely and gently.

SERIES 113

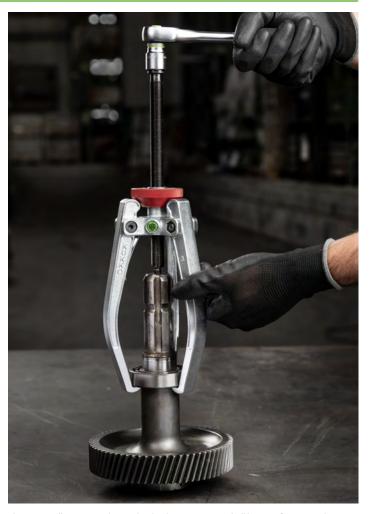


The central manual fixation via the user-friendly Spannring ensures that the shaft's bearing seat and the bearing are removed safely and gently. The 3-jaw design guarantees an even load distribution and thus provides a particularly secure hold on the part being pulled off.

APPLICATION EXAMPLES



The 2-jaw puller 112-20 with cone knob during the extraction of a ball bearing on a water pump



The 3-jaw puller 113-3 with cone knob when extracting a ball bearing from a gearbox $\,$

SERIES 112 2-JAW PULLER FOR BALL BEARINGS (SWEDISH MODEL) WITH CONE KNOB



Technical attributes

The 2-jaw puller with cone knob is designed for the proper removal of rolling bearings in collaboration with a Scandinavian ball bearing manufacturer. Both the proportions of the puller and the consistently straight puller jaws are specially tailored to meet the requirements for centralized pulling of small and medium bearings under limited environmental conditions. This helps prevent possible damage to the bearing and bearing seat during removal. The springs ensure a synchronous opening and closing of the puller jaws, making handling easier and allowing for even more efficient work. The combination of the tightened reach adjusting knob and the spring element prevents the puller from slipping and ensures a particularly firm hold at all times. At the same time, the fixation of the jaws by the cone knob speeds up and simplifies the work during consistent pulling processes with identical spread.

Benefits

- Automatic self-centering of the jaws by tightening the tension ring
- The tension ring and spring ensure a force-fitting fixation of the puller without slipping or deflection of the jaws.
- Claw-shaped leg end grasps the bearing in a form-fit manner.

#		<u></u>	ťij	SW 	P	Max. tensile force	Max. tractive force	i
	EAN	mm/inch	mm/inch	mm/inch	Nm/ft lb	kN	t/US t. sh.	kg/lb
112-1	-418143	0 - 55 3/8 - 2 3/16	45 1 3/4	13 1/2	25 18.44	15	1.5 1.65	0,405 0,893
112-10	-418891	0 - 65 3/8 - 2 5/8	70 2 3/4	13 1/2	25 18.44	15	1.5 1.65	0,46 1,014
112-2	-419218	0 - 90 5/8 - 4	70 2 3/4	17 11/16	55 40.57	30	3 3.31	0,86 1,896
112-20	-420283	0 - 100 5/8 - 3 7/8	100 3 7/8	17 11/16	55 40.57	30	3 3.31	0,945 2,084
112-3	-420368	3 - 185 1 - 7 1/4	165 6 1/2	17 11/16	65 47.94	40	4 4.41	2,17 4,785

SERIES 113 3-JAW PULLER FOR ROLLING BEARINGS (SWEDISH MODEL) WITH CONE KNOB



Technical attributes

The 3-jaw puller with cone knob has been developed for the proper extraction of rolling bearings in collaboration with a Scandinavian ball bearing manufacturer. Both the proportions of the puller and the consistently straight puller jaws are specifically tailored to the requirements for centric pulling of small and medium-sized bearings under limited environmental conditions. This prevents potential damage to the bearing and bearing seat during extraction. The springs guarantee a synchronous opening and closing of the puller jaws, enabling easier handling and even more efficient working. The combination of a tightened reach adjusting knob and spring element prevents the puller from slipping and ensures a particularly firm hold at all times. At the same time, the fixation of the jaws is accelerated and facilitated by the cone knob, making work easier when performing consistent pulling operations with an identical spread. The 3-jaw design guarantees an even load distribution and thus a particularly secure hold on the part to be pulled.

Benefits

- · Automatic self-centering of the jaws by tightening the tension ring
- The tension ring and spring ensure a force-fitting fixation of the puller without slipping or deflection of the jaws.
- Claw-shaped leg end grasps the bearing in a form-fit manner.

#	4 021176	\bigoplus	$[\!\![\uparrow \!\!]]$	SW ⊷	P	Max. tensile force	Max. tractive force	
	EAN	mm/inch	mm/inch	mm/inch	Nm/ft lb	kN	t/US t. sh.	kg/lb
113-20	-422423	1 - 125 3/4 - 4 7/8	100 3 7/8	17 11/16	45 33.19	30	3 3.31	1,23 2,712
113-3	-422751	3 - 185 1 - 7 1/4	165 6 1/2	17 11/16	60 44.26	40	4 4.41	2,94 6,483





SERIES 20 | 30 | 11

PULLER WITH CONICAL SELF-CLAMPING



The 2- and 3-arm pullers with conical self-clamping of the 220 and 221 series are used for the centric removal of bearings, gears and washers in all standard sizes for trade, workshop and industry. They can be used to remove any component that sits on a shaft and is freely accessible from the outside. The puller legs are automatically centered when the clamping cone is tightened. The desired clamping width can be set by operating the clamping cone. The puller legs can also be pre-tensioned using the cone to prevent them from slipping. Can be used both as an external puller and an internal puller (in combination with a slide hammer) by simply turning the puller legs and the clamping cone. Depending on the model, there are puller legs of different lengths, resulting in a total of 24 possible applications.

Benefits

- Self-centering of the legs by tightening the clamping cone
- Clamping cone regulates the setting of the desired clamping depth
- Can optionally be converted from an external puller to an internal puller by turning the puller legs and the clamping cone

ASSEMBLY OF A UNIVERSAL PULLER CONICAL SELF-CLAMPING



SERIES 220

2-jaw universal puller with conical self-clamping



220-1

The 2-arm pullers with conical self-clamping of the 220-0 series can be used universally even in confined spaces. The pullers are available in four different sizes. Depending on the model the pullers have different puller legs for even more specific even more specific processing of the workpiece.

SERIES 221

3-jaw universal puller with conical self-clamping



221-1

Thanks to the 3-arm design, the pullers in the 221-0 series ensure an even distribution of force and thus enable even greater pulling forces. The pullers are available in four different sizes. Depending on the model the pullers have different puller legs for even more specific for even more specific processing of the workpiece.

SERIES 220 / 221



220+

The 2- and 3-arm pullers with conical self-clamping in a case are used for the centric extraction of bearings, gears and washers. They can be used to This allows any component that sits on a shaft and is freely freely accessible from the outside. When the clamping cone is tightened the puller legs are automatically centered. The desired clamping width can be set by operating the clamping cone. clamping width can be set. Can be used both as an external puller as well as an internal puller by simply by simply turning the puller legs and the clamping cone.

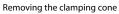
SERIES X-SB-224



224-676

The equipped tool cabinets made of sturdy solid sheet metal are used to store tools safely and clearly. The tool cabinet contains various pullers and cut-off devices, a slide hammer device, two 3-arm pullers with interchangeable hooks and various internal pullers with counter support. The range is therefore suitable for external and internal stripping as well as for separating.







Removing the socket pins



Turning the puller legs



Inserting the socket pins

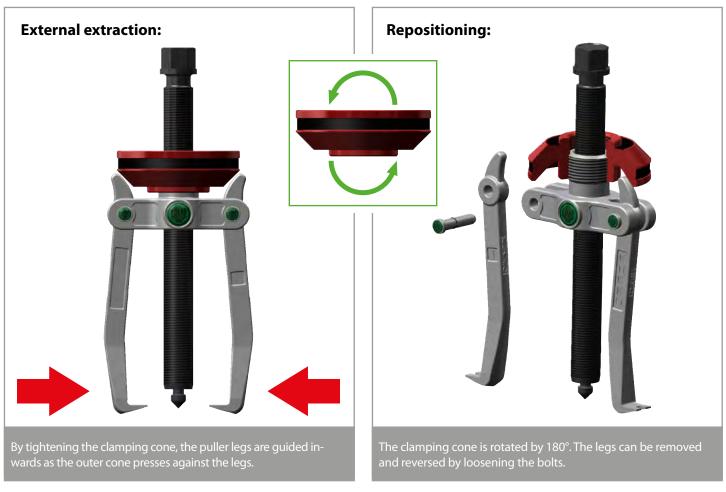


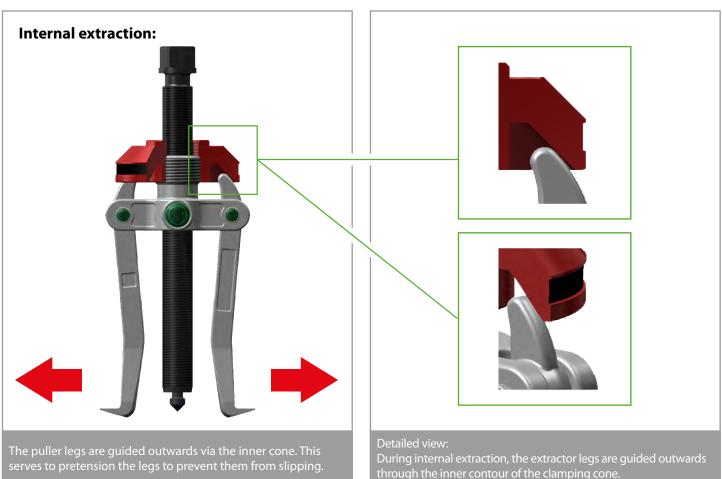
Mounting the clamping cone rotated by 180°



The internal extractor is ready for use

The puller legs are pretensioned exclusively via the clamping cone. The cone sits on an external thread on the cross on the crosshead and has no contact with the spindle. The mechanical spindle is used to generate the pulling force.









Internal extraction of a ball bearing from a housing



External removal of a ball bearing from a gear shaft



The 224-676 tool cabinet offers secure storage

SERIES 220-0 2-JAW PULLER WITH CONICAL SELF-TENSIONING





Hook with slot by the articles 220-1 and 220-3

The 2-jaw pullers with conical self-tensioning are used for the concentric removal of bearings, gears, and discs in all common sizes for crafts, workshops, and industry. This allows any component seated on a shaft and freely accessible from the outside to be released. By tightening the tension cone, the puller jaws are automatically centered. The desired span can be adjusted by operating the tension cone. Additionally, the puller jaws can be pre-tensioned using the cone to prevent possible slipping. Usable as both external extractor and internal extractor (in combination with a sliding hammer or counter stay) by simply reversing the puller jaws and tension cone.

Benefits

- Self-centering of the jaws by tightening the tension cone
- The clamping cone regulates the setting of the desired reach.

#	4 021176		ij		SW 	P	Max. tensile force	Max. tractive force		Included in the set
	EAN	mm/inch	mm/inch	mm/inch	mm/inch	Nm/ft lb	kN	t/US t. sh.	kg/lb	
220-1 NEW	-080128	0 - 120 0 - 4 3/4	120 4 3/4	60 - 150 2 3/8 - 5 7/8	22 7/8	120 88.51	50	5 5.51	2,45 5,402	K-220-221-A
220-2 NEW	-080135	0 - 150 0 - 5 7/8	170 6 11/16	60 - 180 2 3/8 - 7 1/16	22 7/8	120 88.51	50	5 5.51	2,45 5,402	224-178, K-220-221-A
220-3 NEW	-080142	0 - 120 0 - 4 3/4	120 4 3/4	60 - 150 2 3/8 - 5 7/8	22 7/8	120 88.51	50	5 5.51	2,45 5,402	K-220-221-A
220-4 NEW	-080159	0 - 150 0 - 5 7/8	170 6 11/16	60 - 180 2 3/8 - 7 1/16	22 7/8	150 110.64	70	7 7.72	2,45 5,402	K-220-221-A

SERIES 221-0 3-JAW PULLER WITH CONICAL SELF-TENSIONING





221-1 and 221-3

The 3-jaw pullers with conical self-tensioning are used for the centric removal of bearings, gears, and discs in all common sizes for crafts, workshops, and industry. This allows for the loosening of any component that sits on a shaft and is freely accessible from the outside. With the tightening of the tension cone, the puller jaws are automatically centered. By operating the tension cone, the desired spread can be adjusted. Additionally, the puller jaws can be pre-tensioned using the cone to avoid possible slipping. Usable as both an external puller and an internal extractor (in combination with a sliding hammer or a counter stay) by simply reversing the puller jaws and the tension cone. The 3-jaw design ensures an even load distribution and thus a particularly secure hold on the part being removed.

Benefits

- Self-centering of the jaws by tightening the tension cone
- The clamping cone regulates the setting of the desired reach.

#	4021176	<u> </u>	ij		SW	P	Max. tensile force	Max. tractive force	i	Included in the set
	EAN	mm/inch	mm/inch	mm/inch	mm/inch	Nm/ft lb	kN	t/US t. sh.	kg/lb	
221-1 NEW	-080166	0 - 120 0 - 4 3/4	120 4 3/4	60 - 150 2 3/8 - 5 7/8	22 7/8	130 95.89	65	6.5 7.17	2,45 5,402	K-220-221-A
221-2 NEW	-080173	0 - 150 0 - 5 7/8	170 6 11/16	60 - 180 2 3/8 - 7 1/16	22 7/8	130 95.89	65	6.5 7.17	2,45 5,402	224-178, K-220-221-A
221-3 NEW	-080180	0 - 120 0 - 4 3/4	120 4 3/4	60 - 150 2 3/8 - 5 7/8	22 7/8	130 95.89	65	6.5 7.17	2,45 5,402	K-220-221-A
221-4 NEW	-080197	0 - 150 0 - 5 7/8	170 6 11/16	60 - 180 2 3/8 - 7 1/16	22 7/8	150 110.64	70	7 7.72	2,45 5,402	K-220-221-A



220+ UNIVERSAL PULLER WITH SLIDING HAMMER



The 2-jaw and 3-jaw pullers with conical self-tensioning are used for concentric pulling of bearings, gears, and discs in all common sizes for crafts, workshops, and industry. This allows for the removal of any component that sits on a shaft and is freely accessible from the outside. With the tightening of the tension cone, the puller jaws are automatically centered. By operating the tension cone, the desired spread can be set. Additionally, the puller jaws can be pre-tensioned using the cone to prevent possible slipping. Usable as both external extractors and internal extractors (in combination with a sliding hammer) by simply reversing the puller jaws and the tension cone.

Benefits

- The internal puller can be designed either as a 2-jaw or 3-jaw tool, providing a flexible grip for the respective part.
- The jaws self-center and secure themselves tightly to the part being pulled off.
- The cone-directed span width adjustment makes the universal puller also variable depending on the size of the part and allows for quick adjustment to the pulling situation.

#	4021176	$\qquad \qquad $	Ţ					i	Included in the set
	EAN	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	kg	kg/lb	
220+ NEW	-009754	0 - 150 0 - 5 7/8	170 6 11/16	60 - 180 2 3/8 - 7 1/16	500 19 11/16	250 9 13/16	1.7	10,855 23,935	K-220

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224-676 49-PIECE TOOL CABINET



The perforated, 49-piece tool cabinet 224-676 made of sturdy sheet metal is used for the safe and orderly storage of tools. The tool cabinet includes various puller and separator devices, a sliding hammer device, two 3-jaw pullers with interchangeable hooks, as well as different internal extractors along with counter stays. This makes the range suitable for external extraction, internal extraction, and separator pulling. The perforated matrix on the back panel provides enough space for mounting tool holders. The tool cabinet features lockable doors with a cylinder lock, as well as a maximum load capacity of 50 kg. The high-quality steel cabinets can be flexibly integrated into various work environments and thus adapt to individual requirements.

Benefits

- Self-centering of the jaws by pulling the tension cone.
- Self-centering of the jaws by pulling the tension cone.
- The tension cone regulates the setting of the desired reach.
- Optional convertible from an external puller to an internal extractor by flipping the jaws and the tension cone.

#	4021176			<u> </u>	kg	Number of doors	i	Components
	EAN	mm/inch	mm/inch	mm/inch	kg		kg/lb	
224-676 NEW	-042072	750 29 1/2	225 8 7/8	650 25 9/16	50	2	42,8 94,374	022-206, 22-0-17, 15-00, 15-2, 203-1, 203-2, 21-2, 21-4, 21-5, 21-6, 68-0, 68-2, GA7-10, X-SB-65x75



SERIES 224-178 PULLER SET WITH SLIDING HAMMER



The 20-piece puller set with sliding hammer 224-178 is used for the centric removal of bearings, gears, and discs in all common sizes for crafts, workshops, and industry. When tightening the clamping cone, the puller jaws are automatically centered. By operating the clamping cone, the desired spread can be set. In addition, the puller jaws can be pre-tensioned using the cone to prevent possible slipping. Usable as both an external puller and internal extractor by simply reversing the puller jaws and the clamping cone. The various sizes of puller jaws allow for universal application possibilities. The sliding hammer guarantees contactless and gentle extraction when no support surface is present.

Benefits

- By modifying the puller jaws, various pulling methods are ensured.
- The internal puller can be designed either as a 2-jaw or 3-jaw tool, providing a flexible grip for the respective part.
- The jaws self-center and secure themselves tightly to the part being pulled off.

#	4021176	$\qquad \qquad $	Ţ					Max. tractive force	i	Components
	EAN	mm/inch	mm/inch	mm/inch	kg	mm/inch	mm/inch	t/US t. sh.	kg/lb	
224-178 NEW	-446603	0 - 150 0 - 5 7/8	0 - 170 0 - 6 11/16	60 - 180 2 3/8 - 7 1/16	1.7	250 9 13/16	500 19 11/16	0.00	7,4 16,317	221-3, 22-0+17, 220-1-T, 221-1-T

巾

SERIES 224-675 38-PIECE PULLER SET WITH SLIDING HAMMER



The 38-piece universal puller set with sliding hammer 224-675 is used for concentric pulling, internal pulling, and separating bearings, gears, and discs in all common sizes for crafts, workshops, and industry. The set includes various pullers and separator devices, a sliding hammer device, two 2-jaw and one 3-jaw puller, as well as different internal extractors along with counter stays. The range impresses with its multifunctional application possibilities and is suitable for external pulling, internal extraction, as well as for separation pulling.38-teilige, The 38-piece universal puller set with sliding hammer 224-675 is used for concentric pulling, internal pulling, and separating bearings, gears, and discs in all common sizes for crafts, workshops, and industry. The set includes various pullers and separator devices, a sliding hammer device, two 2-jaw and one 3-jaw puller, as well as different internal extractors along with counter stays. The range impresses with its multifunctional application possibilities and is suitable for external pulling, internal extraction, as well as for separation pulling.

Benefits

- By modifying the puller jaws, various pulling methods are ensured.
- The internal puller can be designed either as a 2-jaw or 3-jaw tool, providing a flexible grip for the respective part.
- The jaws self-center and secure themselves tightly to the part being pulled off.

#	4021176		Ţ							Max. tensile force	Max. tractive force	i	Components
	EAN	mm/ inch	mm/ inch	mm/ inch	mm/ inch	mm/ inch	kg	mm/ inch	mm/ inch	kN	t/ US t. sh.	kg/lb	
224-675 NEW	-061158	0 - 400 0 - 15 3/4	280 11 1/32	14 - 150 9/16 - 5 7/8	0 - 280 0 - 11 1/32	6 - 115 1/4 - 4 1/2	1.7	250 9 13/16	470 18 1/2	130	13 14.33	28,1 61,961	207-1, 201-1, 201-2, 220-3, 221-3, 21-2, 21-4, 21-5, 21-6, 68-0, 68-2, 15-00, 15-2, GA7-10, 220-1-T, 221-1-T, 22-0-17, G-22, 022-206





SERIES 140 | MICRO

MICRO PULLER



Micro pullers are used when even the smallest components need to be disassembled. This includes, for example, the removal of pressure gauges, speedometer cables, watches, or similar components. The micro puller is also frequently used in model building.

Benefits

- Integrated, freely movable pen on the T-handle guarantees manual spindle drive in tight spaces.
- Handy compact design for precise work in tight spaces
- Narrow gripping jaws reach even the tightest spaces.
- Magnetic closure ensures a quick exchange of the spindle tip (series 140)

ASSEMBLY OF A MICRO PULLER



SWAP OF THE SPINDLE TIP



The spindle tip of the micro puller is magnetically connected to the spindle, allowing for effortless exchange. Simply pull out the spindle tip and replace it with another. This exchangeability makes the puller even more versatile.

APPLICATION EXAMPLES



SERIES MICRO MICRO PULLER FOR SMALL PARTS AND MODEL BUILDING



The micro puller is used for removing speedometer cables, pressure gauges, clocks, and similar parts. Especially in model making, the small parts puller is a helpful and reliable tool. The handy and space-saving model features narrow gripping jaws and a particularly fine spindle tip, making it suitable for very tight, hard-to-reach areas. The freely movable pin on the T-handle ensures comfortable one-handed tightening of the spindle in confined spaces.

Benefits

- Integrated, free-moving pen on the T handle ensures manual spindle drive in the tightest spaces
- · Compact and handy design for precise work in tight spaces
- Narrow gripping jaws reach even the tightest spaces.

Technical attributes

#	4021176	\Box	ال	·	
	EAN	mm/inch	mm/inch	mm/inch	kg/lb
MICRO	-974755	2,5 - 10 1/8 - 3/8	10 3/8	1 1/32	0,085 0,187

SERIES 140 MICRO PULLER FOR SMALL PARTS AND MODEL BUILDING



The micro puller is used for removing speedometer cables, pressure gauges, clocks, and similar parts. Especially in model making, the small parts puller is a helpful and reliable tool. The handy and space-saving model features narrow jaws that are particularly suitable for tight, hard-to-reach areas. The freely movable pin on the T-handle ensures comfortable one-handed tightening of the spindle in cramped spaces. The spindle tip can be easily replaced using a magnetic closure.

Benefits

- Integrated, free-moving pen on the T handle ensures manual spindle drive in the tightest spaces
- Compact and handy design for precise work in tight spaces
- Narrow gripping jaws reach even the tightest spaces.

#	4021176l		\Box			Included in the set
	EAN	mm/inch	mm/inch	mm/inch	kg/lb	
140-1	-266720	2,5 - 10 1/8 - 3/8	10 3/8	0,9, 1,3, 1,8 1/16	0,35 0,772	140-S
140-2	-266737	3,5 - 15 3/16 - 5/8	15 5/8	0,9, 1,3, 1,8, 2,0 1/16	0,4 0,882	140-S
140-3	-266751	5,5 - 18 1/4 - 3/4	18 3/4	0,9, 1,3, 1,8, 2,0, 3,0 1/16, 1/8	0,35 0,772	140-S

140-S 11-PIECE MICRO PULLER SET FOR SMALL PARTS AND MODEL BUILDING

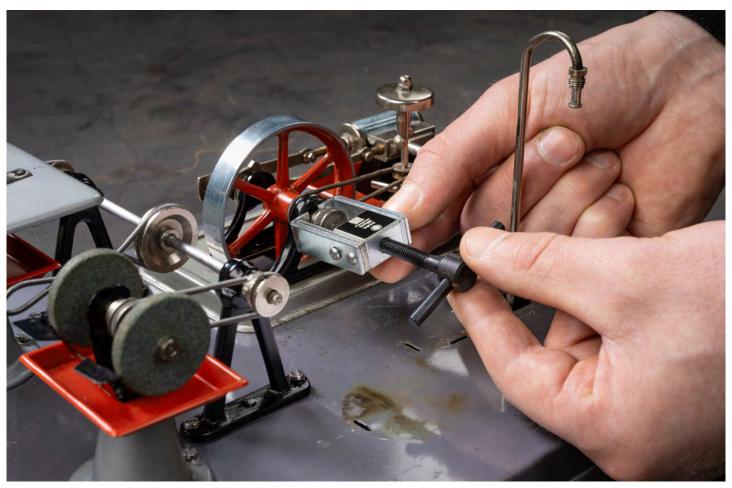


The 11-piece micro puller set is used for pulling speedometer cables, pressure gauges, clocks, and similar parts. Especially in model building, the small parts puller is a helpful and reliable tool. The handy and space-saving design features narrow jaws that are particularly suitable for tight, hard-to-reach areas. The free-moving T-handle on the spindle head ensures manual tightening of the spindle in confined spaces. The set includes three sizes of puller bodies and five different spindle tips for assembling 15 different variants. The spindle tips can be easily changed using a magnetic closure.

Benefits

- Application-oriented assembly for universal use
- By storing it in the box, the completeness of the set can be easily overviewed.
- Narrow gripping jaws reach even the tightest spaces

#	 		\Box	1 0		Components
	EAN	mm/inch	mm/inch	mm/inch	kg/lb	
140-S	-951138	2,5 - 18 1/8 - 11/16	18 11/16	0,9, 1,3, 1,8, 2,0, 3,0 1/16, 1/16, 1/16, 1/16, 1/8	0,625 1,378	140-1, 140-2, 140-3



Removing a ball bearing from a model car tire with the 140-3



SEPARATING AND BEARING PULLER



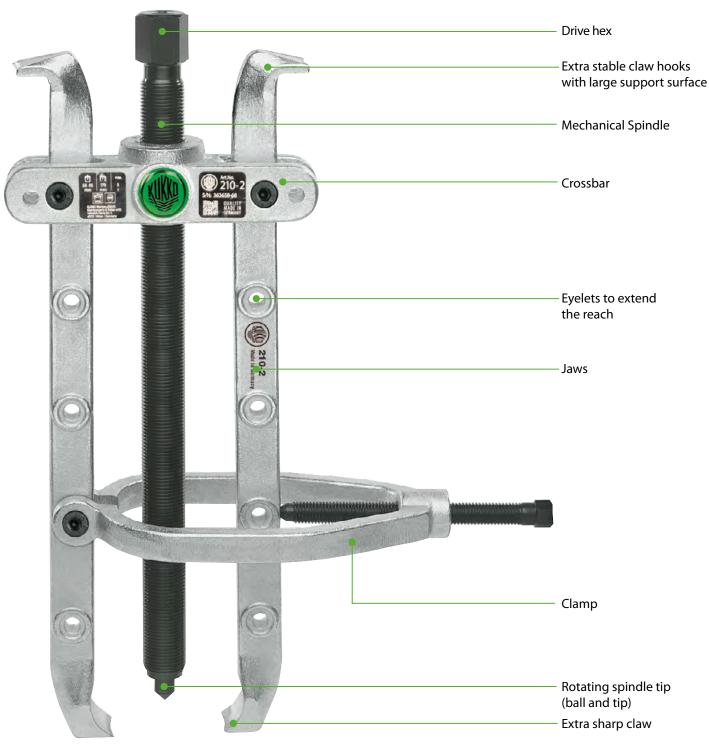
DEPLOYMENT

The 2-jaw pullers with lateral clamp of series 204 and 210 are used for pulling particularly stubborn or flat-lying components. A typical application example in the automotive field is the replacement of wheel bearings. In this case, it can happen that the inner ring of the bearing remains on the shaft. The sharp claws of the puller engage under the part to be pulled and free it even before the actual pulling process. At the same time, the lateral clamp increases the contact pressure of the puller jaws.

Benefits

- The side clamp ensures that the jaws are pressed particularly firmly against the part to be pulled off.
- Twofold force application from above and the side guarantees a 100% secure grip
- Extra sharp claws of the puller jaws release the part to be removed even before the actual pulling process.
- Anti-slip safety (spindle neck) at the spindle head for safe working with wrench.
- Spindelauslauf zum Schutz des Gewindes

ASSEMBLY OF A SEPARATING PULLER



SERIES 204

2-jaw bearing puller with side clamp



204-0 (with T-Handle)

The 2-jaw bearing puller with side clamp and separating claw is used to pull flush mounted ball bearings, bearing rings, and workpieces. The special claw shape of the puller jaws grips beneath the part to be removed when tightening the clamp and already releases this before the actual pulling process.

SERIES 210

2-jaw puller "Cobra" with adjustable reach and side clamp



210-1

The 2-jaw bearing separator "Cobra" has jaws that can rotate 180° and are applicable on both sides. One side has normal puller claws, while the other side features special separating claws. Thanks to the multiple holes in the jaws, different reach depths can be adjusted for flexible working.

EXTENSION OF SPREAD AND REACH



The drillings in the crossbar allow an individual adjustment of the spread and depth.



By reversing the puller jaws, the claws can be changed to fit the application.



First, the puller of the series 225-SK is used to remove the dust cap from the wheel hub.



Thanks to the large support surface of the bearing puller (series 204-V), the adapter fits perfectly on the hollow shaft.



The inner ring of the bearing can then be easily removed from the wheel bearing.

APPLICATION EXAMPLES



Removing a ball bearing from a crankshaft of a chainsaw with the 204-0



The clamp firmly presses the puller jaws against the part to be removed.



Puller legs with different jaw shapes on the 210-1



Removing a tapered roller bearing from a gearbox shaft using the 210-3 $\,$



SERIES 204-0 2-JAW BEARING PULLER "COBRA" WITH LATERAL CLAMPING JAW AND SEPARATING CLAW



The 2-jaw puller "Cobra" with side clamp and separating claw is used for pulling flush-mounted ball bearings, bearing rings, and workpieces. The special claw shape of the puller jaws grips underneath the part to be pulled when tightening the clamp and loosens it already before the actual pulling process. At the same time, the clamp increases the pressing force of the puller jaws manifold and thereby prevents slippage of the puller. By tightening the clamp, the sharp claws of the puller jaws grip under the part to be pulled and release it, already before the actual pulling process. The freely movable pin on the T-handle guarantees comfortable, one-handed tightening of the spindle in tight spaces.

Benefits

- Integrated, freely movable pen on the T-handle guarantees manual spindle drive in the tightest of spaces.
- The side clamp ensures that the puller jaws are pressed particularly tightly against the part being pulled off.
- Double force application from above and side guarantees 100% secure grip
- The slim design of the jaws allows access to hard-to-reach places.

Technical attributes

#	4021176	\Box	\Box	SW	P	Max. tensile force	Max. tractive force	i	Included in the set
	EAN	mm/inch	mm/inch	mm/inch	Nm/ft lb	kN	t/US t. sh.	kg/lb	
204-0	-028168	12 - 50 1 - 2	70 2 3/4	T-handle	0.00	10	1 1.10	0,69 1,521	27-A
204-02 NEW	-339516	26 - 90 1 5/8 - 4	100 3 7/8	22 7/8	75 55.32	40	4 4.41	1,985 4,377	K-204-V-210-1

SERIES 204 2-JAW BEARING PULLER WITH FIXED ARMS AND L ATERAL CLAMPING LEVER



The 2-jaw bearing puller "Cobra" with side clamp is used for pulling particularly stuck ball bearings, bearing rings, and workpieces. With this, it is possible to loosen any component that is mounted on a shaft and is freely accessible from the outside. Thanks to the clamp, the contact pressure of the puller jaws is increased manifold. When the clamp is tightened, the sharp claws of the puller jaws grip underneath the part to be pulled off and loosen it even before the actual pulling process.

Benefits

- The lateral clamp ensures that the puller jaws are pressed particularly firmly against the part to be pulled off.
- The slim design of the jaws allows access to hard-to-reach places.
- Double force application from above and sideways guarantees a 100% secure grip.
- Anti-slip safety (spindle neck) at the spindle head for safe working with a wrench.

#	4021176		T)	sw 	P	Max. tensile force	Max. tractive force		Included in the set
	EAN	mm/inch	mm/inch	mm/inch	Nm/ft lb	kN	t/US t. sh.	kg/lb	
204-1	-028243	6 - 80 1 3/16 - 3 3/16	90 4	19 3/4	100 73.76	50	5 5.51	1,385 3,054	K-127-A/6
204-2	-028328	16 - 100 1 5/8 - 3 7/8	100 3 7/8	22 7/8	120 88.51	60	6 6.61	2,4 5,292	-
204-3	-028403	6 - 150 2 - 5 7/8	140 5 1/2	24 15/16	175 129.08	75	7.5 8.27	3,16 6,968	-

SERIES 210 2-JAW BEARING SEPARATOR "COBRA" WITH ADJUSTABLE REACH AND SIDE CLAMP

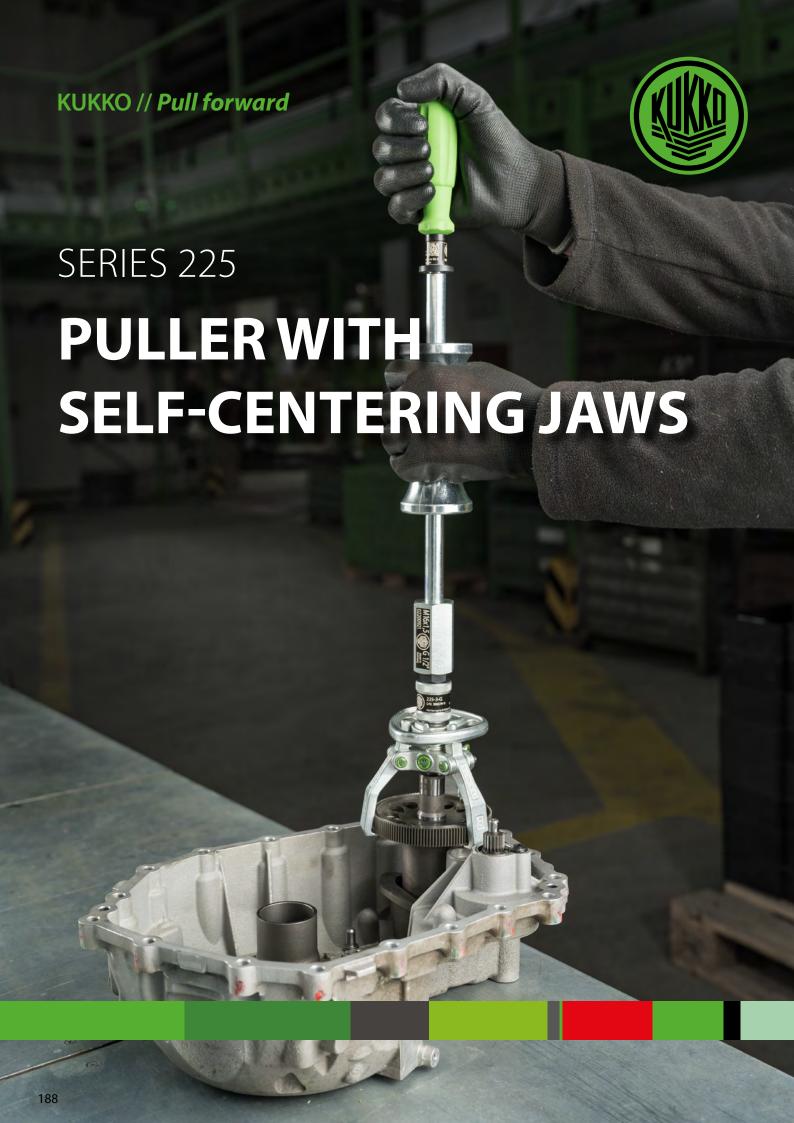


The 2-jaw bearing separator "Cobra" with adjustable reach and side clamp is used for pulling off flat-mounted bearings, gear wheels, and discs in all common sizes for crafts, workshops, and industry. This allows for the loosening of any component that sits on a shaft and is freely accessible from the outside. The puller jaws are rotatable by 180° and can be applied on both sides. One side has standard puller claws, while the other side features special separator claws. Thanks to the multiple drill holes in the puller jaws, different reaches can be set for flexible working. The side clamp increases the pressure of the puller jaws manifold and thus prevents the puller from slipping.

Benefits

- Adjustable and 180° rotatable jaws for individual adjustment of the reach due to multiple drilling in the jaws.
- Puller jaws with different support surfaces for flexible work
- The side clamp ensures that the puller jaws are pressed particularly tightly against the part to be pulled.
- Double force application from above and sideways guarantees 100% secure grip

#	4 021176		ij	SW	P	Max. tensile force	Max. tractive force	i	Included in the set
	EAN	mm/inch	mm/inch	mm/inch	Nm/ft lb	kN	t/US t. sh.	kg/lb	
210-1	-030383	20 - 95 2 - 3 3/4	170 6 3/4	22 7/8	100 73.76	50	5 5.51	2,645 5,832	K-204-V-210-1
210-2	-030468	20 - 135 2 - 5 3/8	270 10 5/8	24 15/16	140 103.26	80	8 8.82	4,325 9,537	-
210-3	-030536	20 - 150 2 - 5 7/8	325 12 7/8	24 15/16	200 147.52	100	10 11.02	4,64 10,231	-

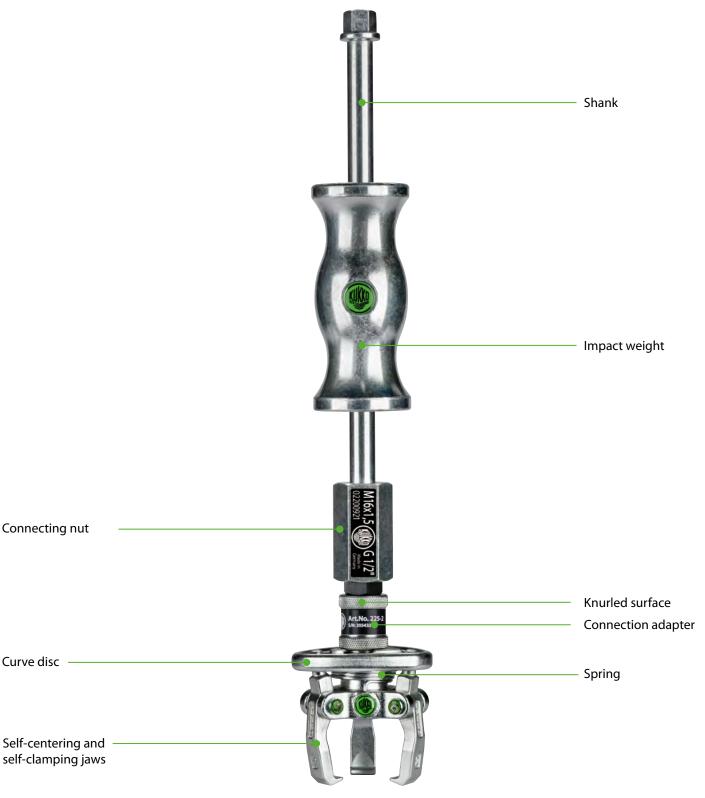


The 3-jaw pullers of series 225 with self-centering puller jaws are used for pulling bearings, gears, and discs. The specially shaped puller jaws are connected by a spring. This ensures a self-tensioning of the puller jaws and prevents possible slipping during the pulling process. Thanks to the quick-release mechanism, the jaws can be attached to the part to be pulled off in no time.

Benefits

- · The spring ensures self-tensioning of the puller jaws.
- · Dowel pins ensure a quick replacement of the jaws.
- · 3-jaw ensures an even distribution of force and allows for greater withdrawal forces.

ASSEMBLY OF A PULLER USING THE EXAMPLE 225-2-G



SERIES 225

3-jaw puller with self-centering jaws



The 3-jaw puller with self-centering jaws is used for pulling bearings, gears, and discs. This allows you to release any component that is sitting on a shaft and is freely accessible from the outside.

225-1

SERIES 225-G

3-jaw puller with sliding hammer



The 3-jaw puller with self-centering puller jaws and sliding hammer is used for pulling bearings, gears, and discs. The sliding hammer ensures a space-saving and simultaneously material-friendly extraction.

SERIES 225-SK

3-jaw puller with self-centering jaws



225-SK-2

The 3-jaw puller with self-centering, extra fine puller jaws is used for the safe and damage-free removal of seated hub caps, wheel covers, as well as dust and grease caps.

SERIES 225-SK-G

3-jaw puller with self-centering jaws



225-SK-G-2

The extra fine jaws enable the removal of plugged hub caps, wheel covers as well as dust and grease caps. The sliding hammer guarantees space-saving and at the same time material-friendly extraction.

SERIES 225-S

Puller set with thread adapters



225

The bolt removal device set with thread adapters of series 225 is used for extracting bolts, e.g. brake shoe bolts or spring bolts on trucks.



First, the puller of the series 225-SK is used to remove the dust cap from the wheel hub.



Thanks to the large support surface of the bearing puller (series 204-V), the adapter fits perfectly on the hollow shaft.



The inner ring of the bearing can then be easily removed from the wheel bearing.

APPLICATION EXAMPLES



Setting the puller on the part to be pulled off



Attaching the 3-K grip G-22 to the sliding hammer



Connecting the sliding hammer via the thread adapter of the puller



Dismantling a pulley from a transmission part

SERIES 225-G 3-JAW PULLER WITH SELF-CENTERING JAWS AND SLIDING HAMMER



The 3-jaw puller with self-centering jaws and sliding hammer is used for pulling bearings, gears, and discs. The sliding hammer ensures space-saving and at the same time material-friendly extraction. This allows you to loosen any component that sits on a shaft and is freely accessible from the outside. The specially shaped jaws are connected by a spring. This provides a self-tensioning of the jaws and prevents possible slipping during the pulling process. Thanks to the quick release, the jaws can be quickly applied to the component to be pulled. The 3-jaw design guarantees an even load distribution and thus a particularly secure grip on the part to be pulled.

Benefits

- The spring ensures self-tensioning of the puller jaws.
- Socket pin ensure a quick exchange of the jaws.
- 3-jaw provides an even distribution of force and allows for greater pulling forces.
- Sliding hammer requires no impact surface and guarantees a gentle extraction.

Technical attributes

#	4021176	\Box					Max. tensile force	Max. tractive force	
	EAN	mm/inch	mm/inch	mm/inch	mm/inch	kg	kN	t/US t. sh.	kg/lb
225-1-G	-080043	18,4 - 50 1 3/16 - 2	35 1 3/8	370 14 9/16	250 9 13/16	1.7	60	6 6.61	3,88 8,555
225-2-G	-080050	58 - 90 2 3/4 - 3 1/2	35 2 3/16	370 14 9/16	250 9 13/16	1.7	60	6 6.61	3,995 8,809
225-3-G	-080067	38 - 70 2 - 2 3/4	35 1 3/8	370 14 9/16	250 9 13/16	1.7	60	6 6.61	3,98 8,776

SERIES 225-0 3-JAW PULLER WITH SELF-CENTERING JAWS



Technical attributes

The 3-jaw puller with self-centering jaws is used for extracting bearings, gears, and discs. It allows for the removal of any component that is mounted on a shaft and is freely accessible from the outside. The specially shaped jaws are connected to a spring. This ensures self-tensioning of the jaws and prevents possible slipping during the extraction process. Thanks to the quick-release mechanism, the jaws can be attached to the component to be pulled in no time. The 3-jaw design guarantees even load distribution and thus a particularly secure grip on the part being extracted.

Benefits

- The spring ensures self-tensioning of the jaws.
- Socket pin ensure a quick exchange of the jaws.
- 3-jaw provides an even distribution of force and allows for greater pulling forces.

#	 	\Box	巾	Max. tensile force	Max. tractive force	i
	EAN	mm/inch	mm/inch	kN	t/US t. sh.	kg/lb
225-1	-123405	18,4 - 50 1 3/16 - 2	35 1 3/8	60	6 6.61	1,12 2,470
225-2	-123412	58 - 90 2 3/4 - 3 1/2	35 2 3/16	60	6 6.61	1,235 2,723
225-3	-123429	38 - 70 2 - 2 3/4	35 1 3/8	60	6 6.61	1,22 2,690



SERIES 225-SK-G 3-JAW PULLER WITH SELF-CENTERING JAWS AND SLIDING HAMMER



The 3-jaw puller with self-centering jaws and sliding hammer is used for the safe and damage-free removal of pressed-on hub caps, wheel covers, and dust and grease caps. The sliding hammer ensures a space-saving and material-saving extraction. The specially shaped jaws are connected with a spring. This provides self-tensioning of the jaws and prevents possible slippage during the pulling process. Thanks to the quick-release mechanism, the jaws can be easily applied to the component to be pulled. The narrow jaws ensure that even tight and hard-to-reach spaces can be accessed. The 3-jaw design guarantees even load distribution and thus a particularly secure grip on the part to be pulled.

Benefits

- The spring ensures self-tensioning of the jaws.
- Socket pin ensure a quick exchange of the jaws.
- 3-jaw provides an even distribution of force and allows for greater pulling forces.
- Narrow puller jaws grip optimally in tight and hard-to-reach places.

Technical attributes

#	4021176						
	EAN	mm/inch	mm/inch	mm/inch	mm/inch	kg	kg/lb
225-SK-G	-080074	24 15/16	65 2 9/16	370 14 9/16	250 9 13/16	1.7	1,09 2,403

SERIES 225-SK 3-JAW PULLER WITH SELF-CENTERING JAWS



The 3-jaw puller with self-centering jaws is used for the safe and damage-free removal of pushed-on hub caps, wheel covers, as well as dust and grease caps. The specially shaped jaws are connected with a spring, providing a self-tensioning effect and preventing possible slipping during the pulling process. Thanks to the quick-release mechanism, the jaws can be quickly attached to the part to be removed. The narrow jaws ensure that even tight and hard-to-reach spaces can be accessed. The 3-jaw design guarantees an even load distribution, providing particularly secure hold on the part to be removed.

Benefits

- The spring ensures self-tensioning of the jaws.
- The dowel pins ensure a quick replacement of the jaws.
- 3-jaw provides an even distribution of force and allows for greater pulling forces.
- Narrow puller jaws grip optimally in tight and hard-to-reach places.

#		\Box	(†)	i
	EAN	mm/inch	mm/inch	kg/lb
225-SK	-324215	65 2 9/16	24 15/16	1,09 2,403



SERIES 225-S THREAD ADAPTER PULLER SET



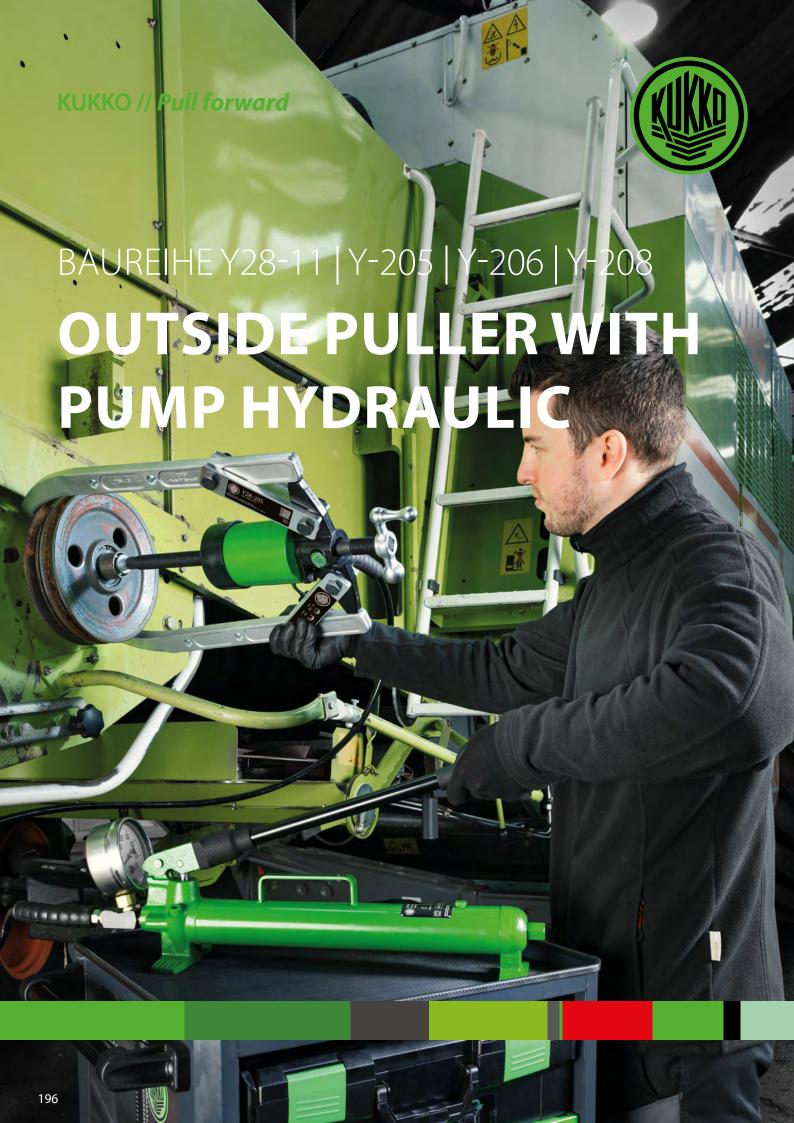
The bolt extraction device set with thread adapters of series 225-S is used for extracting bolts such as brake shoe bolts or spring bolts on commercial vehicles. It includes a kg impact hammer in solid design as well as a set with 7 different thread inserts to be prepared for any extraction situation.

Benefits

- The large impact hammer allows you to pull out even very stubborn bolts.
- The two handles allow for good handling
- Versatile use due to the wide selection of different thread sizes

#	 				—	•	i
	EAN	mm/inch	mm/inch	kg	nominal dimension	nominal dimension	kg/lb
225	-019470	700 27 9/16	280 11 1/32	8	M8x1, M10x1, M14x1,5, M14, M16x1,5, M16, M20x1,5	M16x1,5, G1/2	11,02 24,299



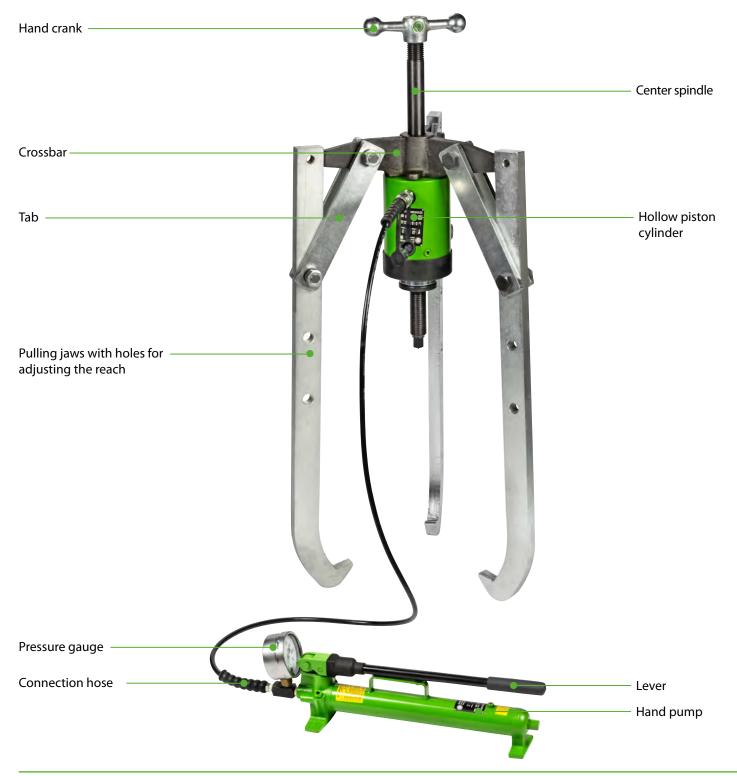


The hydraulic pullers from KUKKO are capable of solving even extreme pulling problems. The continuously adjustable power enables controlled and safe operation while utilizing the full performance potential of the pullers. Whenever manual force reaches its limits, the hydraulic system ensures maximum power transfer.

Benefits

- The hydraulic hollow piston cylinder ensures easy and controlled removal of particularly large and stubborn parts with minimal effort.
- Adjustable puller jaws for individual adjustment of the reach thanks to multiple drilling in the puller jaws.
- Oscillating puller jaws offer a variety of adjustment options (series Y-205, Y-206, and Y-208)
- Thanks to the crossbar, the puller can be used for 2-jaw and 3-jaw applications (series Y-208)

ASSEMBLY OF A PULLER WITH HYDRAULIC PUMP



BAUREIHE Y28-11

Hydraulic, extra powerful 3-jaw puller



The hydraulic, extra-powerful 3-jaw puller with adjustable reach and hydraulic hollow piston cylinder for pump drive is used for pulling particularly stubborn bearings, gears, and discs in all common sizes. The hydraulic hollow piston cylinder achieves a high tension force. The 3-jaw design guarantees an even load distribution and thus a particularly secure grip on the part being pulled.

SERIES Y-205

Hydraulic 2-jaw puller



The hydraulic 2-jaw puller with adjustable reach and hydraulic hollow piston cylinder for pump drive is used for pulling particularly large and seized bearings, gears, and discs in all common sizes. The hydraulic hollow piston cylinder achieves a high tension force. The oscillating jaws adapt to any installation situation and are universally applicable due to the adjustability of the reach.

SERIES Y-206

Hydraulic 2-jaw and 3-jaw puller



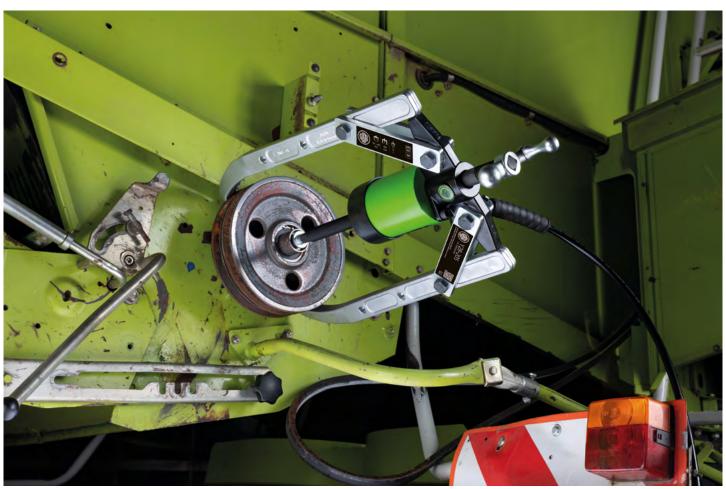
The hydraulic 2-jaw and 3-jaw puller with adjustable reach and hydraulic hollow piston cylinder for pump drive is used for removing particularly large and stubborn bearings, gears, and discs in all common sizes. The hydraulic hollow piston cylinder achieves high tension force. The oscillating jaws adapt to any installation situation and are universally applicable due to the possibility of adjusting the reach. The 3-jaw design ensures even load distribution and thus a particularly secure hold.

SERIES Y-208

Hydraulic 3-jaw combination puller



The hydraulic 3-jaw puller with adjustable reach, hydraulic pressure cylinder for pump drive, and combination crossbar is designed for pulling particularly large and stubborn bearings, gears, and discs in all common sizes. The hydraulic pressure cylinder achieves high tension force. The oscillating jaws adapt to any installation situation and are universally applicable due to the adjustable reach. Thanks to the combination crossbar, the puller can be used as both a 2-jaw and a 3-jaw puller.



External extraction of a pulley on a combine harvester with the hydraulic puller Y28-205



External extraction of a pulley on a combine harvester with the hydraulic puller Y28-205 $\,$

SERIES Y28-11 HYDRAULIC, EXTRA POWERFUL, 3-JAW PULLER WITH ADJUSTABLE REACH AND HOLLOW PISTON CYLINDER



Technical attributes

The hydraulic, extra-strong 3-jaw puller with adjustable reach and hydraulic hollow piston cylinder for pump drive is used for pulling particularly stubborn bearings, gears, and discs in all standard sizes for crafts, workshops, and industry. The hydraulic hollow piston cylinder achieves a high pulling force of up to 20 t. This allows you to loosen any component that is mounted on a shaft and is freely accessible from the outside. The robust design of the puller adapts to every pulling situation thanks to its individually adjustable spread and reach, ensuring a powerful, damage-free disassembly both during external extraction and internal extraction. The 3-jaw design guarantees an even load distribution, providing a particularly secure grip on the part being pulled.

Benefits

- A hydraulic hollow piston cylinder ensures easy and controlled removal of particularly large and stuck parts with minimal effort.
- Adjustable puller jaws for individual adjustment of the reach due to multiple drilling in the puller jaws
- 3-jaw provides an even distribution of force and allows for greater pulling forces.

#	4021176		ťij		Ø	Max. tensile force	Max. tractive force	i
	EAN	mm/inch	mm/inch	mm/inch	bar	kN	t/US t. sh.	kg/lb
Y28-11-0	-469725	0 - 375 0 - 14 3/4	500 19 11/16	280 - 600 11 1/32 - 23 5/8	700	200	20 22.05	29 63,945
Y28-11-1	-711640	0 - 520 0 - 20 1/2	500 19 11/16	280 - 600 11 1/32 - 23 5/8	700	200	20 22.05	33 72,765
Y28-11-2	-711657	0 - 650 0 - 25 9/16	500 19 11/16	290 - 740 11 7/16 - 29 1/8	700	200	20 22.05	38 83,790

SERIES Y-205 HYDRAULIC, EXTRA POWERFUL, 3-JAW PULLER WITH ADJUSTABLE REACH AND HOLLOW PISTON CYLINDER



Technical attributes

The hydraulic 2-jaw puller with adjustable reach and hydraulic hollow piston cylinder for pump drive is used for pulling particularly large and seized bearings, gears, and discs in all common sizes for trade, workshop, and industry. The hydraulic hollow piston cylinder achieves a high pulling force of up to 50 t. This allows for the loosening of any component that is mounted on a shaft and is freely accessible from the outside. The oscillating jaws adapt to any installation situation and can be universally used due to the adjustable reach.

Benefits

- A hydraulic hollow piston cylinder ensures easy and controlled removal of particularly large and stuck parts with minimal effort.
- Adjustable puller jaws for individual adjustment of the reach due to multiple drilling in the puller jaws
- Oscillating puller jaws offer a variety of adjustment options.

#	4 021176	ф	ťh	Max. tensile force	Max. tractive force	Ø	i
	EAN	mm/inch	mm/inch	kN	t/US t. sh.	bar	kg/lb
Y28-205	-036088	0 - 420 0 - 16 9/16	300 11 13/16	200	20 22.05	700	21,5 47,408
Y28-215	-833915	0 - 420 0 - 16 9/16	600 23 5/8	200	20 22.05	700	26 57,330
Y38-205	-037078	0 - 700 0 - 27 9/16	520 20 1/2	300	30 33.07	700	41 90,405
Y58-205	-038068	0 - 1.000 0 - 39 3/8	700 27 9/16	500	50 55.12	700	90 198,450
Y58-215	-854675	0 - 1.000 0 - 39 3/8	1.200 47 1/4	500	50 55.12	700	0 0,000

SERIES Y-206 HYDRAULIC, EXTRA POWERFUL, 3-JAW PULLER WITH ADJUSTABLE REACH AND HOLLOW PISTON CYLINDER



Technical attributes

The hydraulic 2-jaw and 3-jaw puller with adjustable reach and hydraulic hollow piston cylinder for pump drive is used for pulling particularly large and stuck bearings, gears, and discs in all common sizes for crafts, workshops, and industry. The hydraulic hollow piston cylinder achieves a high pulling force of up to 50 t. This allows for the release of any component that sits on a shaft and is freely accessible from the outside. The oscillating jaws adapt to any installation situation and can be used universally due to the adjustable reach. The 3-jaw design guarantees an even load distribution and therefore a particularly secure grip on the part being pulled. If only a little space is available around the part to be pulled, the included 2-jaw crossbar can be used.

Renefit

- Hydraulic hollow piston cylinder ensures easy and controlled removal of particularly large and stuck parts with minimal effort.
- Adjustable puller jaws for individual adjustment of the reach due to multiple drilling in the puller jaws
- · Oscillating jaws offer a variety of adjustment options.
- 3-jaw ensures an even force distribution and allows for greater pulling forces.

#			įή	Ø	Max. tensile force	Max. tractive force	i	Included in the set
	EAN	mm/inch	mm/inch	bar	kN	t/US t. sh.	kg/lb	
Y28-206	-036248	0 - 500 0 - 19 11/16	300 11 13/16	700	20	20 22.05	31,48 69,413	Y28-256, Y28-200
Y38-206	-037238	0 - 900 0 - 35 7/16	520 20 1/2	700	30	30 33.07	54 119,070	Y38-356, Y38-300
Y58-206	-038228	0 - 1.200 0 - 47 1/4	700 27 9/16	700	50	50 55.12	125 275,625	Y58-556, Y58-500
Y28-216	-833922	0 - 500 0 - 19 11/16	600 23 5/8	700	20	20 22.05	37 81,585	-
Y58-216	-854682	0 - 1.200 0 - 47 1/4	1.200 47 1/4	700	50	50 55.12	0 0,000	-

SERIES Y-208 HYDRAULIC, EXTRA POWERFUL, 3-JAW PULLER WITH ADJUSTABLE REACH AND HOLLOW PISTON CYLINDER



Technical attributes

The hydraulic 2-jaw and 3-jaw puller with adjustable reach, hydraulic pressure cylinder for pump drive and combination crossbar is used for pulling particularly large and stuck bearings, gears, and discs in all common sizes for crafts, workshops, and industry. The hydraulic pressure cylinder achieves a pulling force of max. 10 t. This makes it possible to loosen any component that is mounted on a shaft and accessible from the outside. The oscillating jaws adapt to any installation situation and are universally applicable due to the adjustability of the reach. Thanks to the combination crossbar, the puller can be used as both a 2-jaw and a 3-jaw puller. The 3-jaw design guarantees an even load distribution and thus a particularly secure grip on the part being pulled.

Benefits

- Hydraulic hollow piston cylinder ensures easy and controlled removal of particularly large and stuck parts with minimal effort.
- Adjustable puller jaws for individual adjustment of the reach due to multiple drilling in the puller jaws
- Oscillating jaws offer a variety of adjustment options.
- Thanks to the crossbar, the puller can be used for 2-jaw and 3-jaw pulling.

#	4 021176			Ø	Max. tensile force	Max. tractive force	
	EAN	mm/inch	mm/inch	bar	kN	t/US t. sh.	kg/lb
Y08-208	-461774	0 - 250 0 - 9 13/16	215 8 7/16	625	45	4.5 4.96	5,39 11,885
Y18-208	-461699	0 - 500 0 - 19 11/16	500 19 11/16	561	100	10 11.02	17,41 38,389

SERIES YX8-X00 **18-PIECE, HYDRAULIC UNIVERSAL PULLER SET**



The 18-piece hydraulic universal puller sets of series YXB-X00 are used for pulling, separating, and internal extraction of particularly large and tightly seated bearings, gears, discs, etc. in industry and commercial vehicles. The set requires no additional accessories for application. In addition to a hollow piston cylinder with hand pump, pressure gauge, and hose, the set includes 2-jaw and 3-jaw pullers, separating knives, internal extractors, counter stays, and extensions to ensure a universal solution for every situation.

Benefits

- · Application-oriented assembly for universal use
- By storing it in the metal box, the completeness of the set can be easily overviewed.

#	4021176					Ħ		\bigcirc	Max. tensile force	Max. Tractive force	i	Components
	EAN	mm/ inch	mm/ inch	mm/ inch	mm/ inch	mm/ inch	mm/ inch	bar	kN	t/ US t. sh.	kg/lb	
Y28-200	-870828	50 - 500 1 15/16 - 19 11/16	0 - 300 0 - 11 13/16	30 - 180 1 3/16 - 7 1/16	25 - 155 1 - 6 1/8	135 - 300 5 5/16 - 11 13/16	1.000 39 3/8	700	200	20 22.05	85 187,425	Y-221-E, YHP-325, Y-215-3, YDB- 27E, YRH-202, Y20-180, Y20- 206, Y218-06-P, Y218-08-P, Y218- 31-P, Y218-33, Y205-20, Y218- 10, Y218-11, Y20-216
Y38-300	-870835	50 - 900 1 15/16 - 35 7/16	0 - 520 0 - 20 1/2	75 - 230 2 15/16 - 9 1/16	30 - 250 1 3/16 - 9 13/16	180 - 420 7 1/16 - 16 9/16	1.200 47 1/4	700	300	30 33.07	188 414,540	Y-321-E, YHP-325, Y-315-5, YDB- 33E, YRH-302, Y30-180, Y30- 206, Y318-36-P, Y318-33, Y318- 38-P, Y318-41-P, Y305-20, Y318- 10, Y318-11
Y58-500	-870842	460 - 1.200 18 1/8 - 47 1/4	0 - 700 0 - 27 9/16	75 - 230 2 15/16 - 9 1/16	75 - 330 2 15/16 - 12 1	235 - 540 9 1/4 - 21 1/4	1.500 59 1/16	498	500	50 55.12	335 738,675	Y-521-E, YHP-325, Y-515-6, YDB- 55E, YRH-603, Y50-180, Y50- 206, Y518-08-P, Y518-31-P, Y518- 33, Y505-20, Y518-10, Y518- 11, Y50-216

SERIES YX8-X56 9-PIECE HYDRAULIC EXTERNAL **PULLER SET**



The 9- and 15-piece hydraulic puller sets are used for extracting particularly large and stubborn bearings, gears, discs, etc. in industry and commercial vehicles. The set does not require any additional accessories for use. In addition to a hydraulic hollow piston cylinder with hand pump, pressure gauge, and hose, the set includes 2-jaw and 3-jaw pullers to provide a solution for various situations during external extraction.

Benefits

- · Application-oriented assembly for universal use
- Through the storage in the metal box, the completeness of the set can be easily overviewed.

#	 	<u></u>	Ţ	Ø	Max. tensile force	Max. tractive force	i	Components
	EAN	mm/inch	mm/inch	bar	kN	t/US t. sh.	kg/lb	
Y28-256	-036811	50 - 500 1 15/16 - 19 11/16	0 - 300 0 - 11 13/16	700	200	20 22.05	68 149,940	YHP-325, YRH-202, Y20-206, Y205-20, Y218-10, Y218-11, Y20-216
Y38-356	-037801	50 - 900 1 15/16 - 35 7/16	0 - 520 0 - 20 1/2	700	300	30 33.07	93,42 205,991	YHP-325, YRH-302, Y30-206, Y305-20, Y318-10, Y318-11
Y58-556	-038631	100 - 1.200 3 15/16 - 47 1/4	0 - 700 0 - 27 9/16	498	500	50 55.12	175 385,875	YHP-325, YRH-603, Y50-206, Y505-20, Y518-10, Y518-11, Y50-216



SERIES YSM HUB CYLINDER



The YSM series of hub cylinders are used with the KUKKO hydraulic program in crafts, industry, and workshops when other cylinders are too large. Due to their compact design, they can also be used in tight spaces, allowing for a force-saving and versatile operation even in difficult pulling situations or when a lot of force is required.

Benefits

- All models have a CR-400 coupling sleeve with dust cap.
- Mounting holes enable easy installation
- The integrated scraper removes contaminants from the piston, thereby extending the life of the cylinder.

Technical attributes

#	4021176					Ø	a	Max. tensile force	Max. tractive force	i
	EAN	mm/inch	mm/inch	mm/inch	mm/inch	bar	cm³	kN	t/US t. sh.	kg/lb
YSM-100	-101007	55 2 3/16	82 3 1/4	43 1 11/16	12 1/2	700	0.0000 m ³	100	10 11.02	1,735 3,826
YSM-200	-102004	76 21	101 3 1	51 2 1/64	11 7/16	700	0.0000 m ³	200	20 22.05	2,795 6,163

SERIES YRE HYDRAULIC PRESSURE CYLINDERS WITH COLLAR THREAD



The hydraulic pressure cylinders with collar thread of the YRE series are used with the KUKKO hydraulic program for applications in all positions in crafts, industry, and workshops. The model with a large stroke length enables force-saving and versatile work even in difficult pulling situations or when a lot of force is required.

Benefits

- All models have a CR-400 coupling sleeve with dust cap.
- External threads on the cylinder head, internal threads on the piston rod, and fastening threads on the cylinder bottom enable easy assembly.

#	4021176							Ø	a	Max. tensile force	Max. Tractive force	i
	EAN	mm/ inch	mm/ inch	mm/ inch	mm/ inch	nominal dimension	mm/ inch	bar	cm³	kN	t/ US t. sh.	kg/lb
YRE-050	-046551	38 1 1/2	98 3 7/8	216 8 1/2	25 1	1 1/2"-16UN	125 4 15/16	700	0.0001 m ³	50	5 5.51	2,2 4,851
YRE-101	-870927	57 2 1/4	117 4 5/8	350 13 3/4	40 1 9/16	2.1/4"-14 UNS	250 9 13/16	700	0.000406 m ³	100	10 11.02	6,4 14,112
YRE-106	-879401	57 2 1/4	117 4 5/8	247 9 3/4	40 1 9/16	2.1/4"-14 UNS	155 6 1/8	700	0.000242 m ³	100	10 11.02	4,375 9,647
YRE-701	-021251	152 5 1	212 8 3/8	285 11 1/4	70 2 3/4	5.3/4"-12 UN	155 6 1/8	700	0.001752 m ³	750	75 82.67	32 70,560

SERIES YRH HOLLOW PISTON CYLINDER



The hydraulic hollow piston cylinders of the YRH series are used for application with the KUKKO hydraulic program in crafts, industry, and workshops. They can be used both as pressure and traction cylinders, enabling a force-saving and versatile operation even in challenging extraction situations or when a lot of force is needed.

Benefits

- All models feature a CR-400 coupling sleeve with dust cap.
- External threads on the cylinder head, internal threads on the piston rod, and mounting threads on the cylinder base allow for easy assembly.

#	4 021176							1	Ø	•	Max. tensile force	Max. tractive force	i
	EAN	mm/ inch	mm/ inch	mm/ inch	nominal dimension			mm/ inch	bar	cm ³	kN	t/ US t. sh.	kg/lb
YRH-132	-854460	73 2 7/8	133 5 1/4	60 2 3/8	2 3/4"- 12 UN	3/4"- 16 UN	-	8 5/16	700	0.00001 m ³	130	13 14.33	2,04 4,498
YRH-202	-046711	99 3 7/8	160 6 5/16	162 6 3/8	3 7/8"- 12 UN	1 9/16"- 16 UN	1"-8 UNC	50 1 15/16	700	0.000173 m ³	200	20 22.05	7,575 16,703
YRH-206	-870934	99 3 7/8	160 6 5/16	306 12 1/16	3 7/8"- 12 UN	1 9/16"- 16 UN	1″-8 UNC	150 5 7/8	700	0.000527 m ³	200	20 22.05	14,185 31,278
YRH-302	-046896	117 4 5/8	177 6 15/16	178,5 7 1/32	4 1/2"- 12 UN	1 7/8"- 16 UN	1 1/4"- 7 UNC	63 2 1/2	700	0.00031 m ³	300	30 33.07	10,7 23,594
YRH-603	-046971	159 6 1/4	219 8 5/8	247,5 9 3/4	6 1/4"- 12 UN	2 3/4"- 16 UN	1 5/8"- 5 1/2 UNS	75 2 15/16	700	0.00068 m ³	600	60 66.14	30 66,150

SERIES YHP ACCESSORIES FOR HYDRAULIC PULLING



The hydraulic hand pump, pressure gauge, and hose are used in conjunction with the pullers from the KUKKO hydraulic program in trade, industry, and workshops. The range includes high-pressure hydraulic hand pumps, pressure gauges, and hoses, as well as various connections and adapters designed for durability and user-friendliness. Depending on the requirements, different combinations of the components are available.

Benefits

YHP-320

• The entire series is equipped with numerous safety features to provide reliable performance while ensuring safety in the workplace.

Technical attributes

#		oil	Ø	Max. tractive force	i	Components
	EAN	cm³	bar	t/US t. sh.	kg/lb	
YHP-320	-045721	0.0006 m ³	700	50 55.12	7,28 16,052	YHP-320
YHP-321	-111198	0.0006 m ³	700	50 55.12	8,375 18,467	YHP-320, YF-200
YHP-324	-045806	0.0006 m ³	700	50 55.12	9,605 21,179	YHP-320, YM-235, YGA-2
YHP-325	-045981	0.0006 m ³	700	50 55.12	1,5 3,308	YHP-320, YF-200, YM-235, YGA-2
YHP-326	-046483	0.0006 m ³	700	50 55.12	16,13 35,567	YHP-320, YF-200, YM-235, YGA-2
YHP-420	-609688	0.002 m ³	700	75 82.67	13,6 29,988	YHP-420
YHP-421	-022968	0.002 m ³	700	75 82.67	0 0,000	YHP-420, YF-200
YHP-424	-103988	0.002 m ³	700	75 82.67	13,6 29,988	YHP-420, YM-235, YGA-2
YHP-425	-103995	0.002 m ³	700	75 82.67	9,605 21,179	YHP-420, YF-200, YM-235, YGA-2
YF-200	-045646	-	700	75 82.67	1,6 3,528	YF-200
YM-235	-157769	-	700	75 82.67	1,65 3,638	YM-235
YGA-2	-458644	-	-	75 82.67	0,21 0,463	YGA-2

SERIES YPP PNEUMATIC, HYDRAULIC PUMP



The pneumatic and hydraulic pumps are used for application with the pullers from the KUKKO hydraulic program in crafts, industry, and workshops. The compressed air-operated hydraulic pump can be used via foot or hand operation and is optionally available individually or together with hose and pressure gauge.

Benefits

- Safety valve as overload protection ensures safe working.
- With 2-stage drain valve for easier application

#	4021176	\bigcirc	oil)	Max. tractive force	i
	EAN	bar	cm³	t/US t. sh.	kg/lb
YPP-520	-141577	700	0.003 m ³	75 82.67	0 0,000
YPP-525	-469732	700	0.003 m ³	75 82.67	12,93 28,511

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SERIES Y-10-11 ACCESSORIES FOR HYDRAULIC PULLING



The accessories for hollow piston cylinders are used for compatibility with the pullers from the KUKKO hydraulic program in crafts, industry, and workshops. The hand cranks and center spindle are designed for the hollow piston cylinders of the YRH series.

Technical attributes

#	4021176	L ← →	<u> </u>	Max. tractive force	i	COMBINETE
	EAN	mm/inch	mm/inch	t/US t. sh.	kg/lb	
Y218-10	-040368	120 4 3/4	17,5 11/16	20 22.05	1,865 4,112	YRH-202, YRH-206
Y218-11	-040443	514 20 1/4	17,5 11/16	20 22.05	1,69 3,726	YRH-206, YRH-202
Y318-10	-041761	150 5 7/8	20,5 13/16	30 33.07	0,88 1,940	YRH-302
Y318-11	-041846	610 24 1/64	20,5 13/16	30 33.07	3,205 7,067	YRH-302
Y318-12	-749865	400 15 3/4	20,5 13/16	30 33.07	8 17,640	YRH-302
Y518-10	-044243	240 9 7/16	25,4 1	50 55.12	2,01 4,432	YRH-603
Y518-11	-044328	750 29 1/2	25,4 1	50 55.12	6,745 14,873	YRH-603

SERIES YC QUICK COUPLING



The quick coupling of the YC series is used together with the hydraulic cylinders of the YRH and YRE series. The complete coupling consists of the coupling connector (YCH-604) and the coupling sleeve (YCR-400) with a protective cap.

#	 	□←	Ø	i
	EAN		bar	kg/lb
YCR-400	-201318	3/8" NPT	700	0,225 0,496
YCH-604	-440731	3/8" NPT	700	0,225 0,496

SERIES Y-17 PRESSURE PIECE FOR AXLE BORES



Technical attributes

The pressure pieces for axle bores are used for pulling bearings and gears in craft, industry, and workshops that are mounted on hollow shafts or in housings. The spindle pressure piece serves as a counter-axis to the puller, transferring the force onto the pressure piece through the spindle.

Benefits

- Broader application possibilities for various extraction situations
- The set is available in both 12-piece and 6-piece versions, and if needed, the pressure pieces are also available individually.

#	4021176		i
	EAN	mm/inch	kg/lb
Y-01-17	-233173	20 - 23 13/16-7/8	0,006 0,013
Y-02-17	-233258	23 - 26 7/8-1 1/32	0,04 0,088
Y-03-17	-233333	26 - 30 1 1/32-1 3/16	0,05 0,110
Y-04-17	-233418	29 - 33 1 1/8-1 5/16	0,06 0,132
Y-05-17	-233586	33 - 39 1 5/16-1 9/16	0,165 0,364
Y-06-17	-233661	36 - 42 1 7/16-1 5/8	0,2 0,441
Y-07-17	-233746	39 - 46 1 9/16-1 13/16	0,22 0,485
Y-08-17	-233821	42 - 48 1 5/8-1 7/8	0,288 0,635
Y-09-17	-233906	45 - 52 1 3/4-2 1/16	0,26 0,573
Y-10-17	-234163	49 - 58 1 15/16-2 5/16	0,26 0,573
Y-11-17	-234248	51 - 62 2 1/64-2 7/16	0,52 1,147
Y-12-17	-234408	55 - 65 2 3/16-2 9/16	0,26 0,573
Y-13-17	-234576	58 - 68 2 5/16-2 11/16	0,65 1,433
Y-14-17	-234651	61 - 71 2 3/8-2 13/16	0,26 0,573
Y-15-17	-234736	65 - 74 2 9/16-2 15/16	0 0,000
Y-16-17	-234811	71 - 81 2 13/16-3 3/16	0 0,000
Y-17-17	-234996	77 - 88 3 1/32-3 7/16	0 0,000
Y-18-17	-235078	20 - 62 13/16-2 7/16	2,235 4,928
Y-19-17	-235153	33 - 81 1 5/16-3 3/16	5,7 12,569
Y-20-17	-235238	55 - 88 2 3/16-3 7/16	4,9 10,805
Y-60-100-17	-120466		4,455 9,823

SERIES Y205/206 2-JAW TRAVERSE



The accessories for hydraulic pullers are used for the pullers from the KUKKO hydraulic program in craft, industry, and workshop. The puller jaws with tabs, screws, and nuts, as well as 2-jaw or 3-jaw crossbars, are designed for the series Y20, Y28, Y30, Y38, Y50, and Y58.

#	4021176	Max. tractive force	i	COMPUTER
	EAN	t/US t. sh.	kg/lb	
Y205-20	-038976	20 22.05	2,27 5,005	Y28-205, Y28-206, Y20-205, Y20-206, YRH-202, YRH-206
Y206-30	-039478	20 22.05	5 11,025	Y28-205, Y28-206, Y20-205, Y20-206, YRH-202, YRH-206
Y305-20	-040931	30 33.07	3,786 8,348	Y38-205, Y38-206, Y30-205, Y30-206, YRH-302
Y306-30	-041433	30 33.07	4,97 10,959	Y38-205, Y38-206, Y30-205, Y30-206, YRH-302
Y505-20	-042911	50 55.12	7,85 17,309	Y58-205, Y58-206, Y50-205, Y50-206, YRH-603
Y506-30	-043413	50 55.12	1,55 3,418	Y58-205, Y58-206, Y50-205, Y50-206, YRH-603

SERIES YD PRESSURE PIECE FOR HOLLOW PISTON CYLINDER



Technical attributes

The pressure pieces for hollow piston cylinders are screwed into the internal thread of the piston rod of the hollow piston cylinder. The center spindle can be inserted directly into the threaded piece or secured and adjusted using a quick adjustment nut when using a pressure piece with a smooth bore. When using the closed pressure piece, the cylinders can be used as lifting jacks.

Benefits

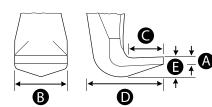
• Pressure pieces enable the versatile application of the hollow piston cylinder from KUKKO as a pressure or pull cylinder.

recilinear acti	ibates						
#	4021176				Max. tractive force	COMB ULERAR COMB INSELLE	i
	EAN	mm/inch			t/US t. sh.		kg/lb
YDB-33E	-400308	58 2 5/16	-	1 7/8″-16 UN	30 33.07	YRH-302	0,21 0,463
YDB-55E	-400483	85 3 3/8	-	2 3/4"-16 UN	50 55.12	YRH-603	0,5 1,103
YDG-20E	-399091	50 1 15/16	1"-8 UNC	1 9/16″-16 UN	20 22.05	YRH-202, YRH-206	0,18 0,397
YDG-30E	-399176	60 2 3/8	1 1/4"-7 UNC	1 7/8″-16 UN	30 33.07	YRH-302	0,285 0,628
YDG-50E	-399251	85 3 3/8	1 5/8"-5 1/2 UNS	2 3/4"-16 UN	50 55.12	YRH-603	0,85 1,874
YDM-20E	-414183	50 1 15/16	-	1 9/16″-16 UN	20 22.05	YRH-202, YRH-206	0,28 0,617
YDM-30E	-414268	58 2 5/16	-	1 7/8″-16 UN	30 33.07	YRH-302	0,38 0,838
YDM-50E	-414343	85 3 3/8	-	2 3/4"-16 UN	50 55.12	YRH-603	1,06 2,337
YDB-27E	-400223	50 1 15/16	-	1 9/16"-16 UN	20 22.05	YRH-202, YRH-206	0,17 0,375

SERIES Y205 HOOK WITH TABS, SCREWS, AND NUTS

The puller with tabs, screws, and nuts is used for pulling especially large and stubborn bearings, gears, and discs. The multiple holes in the jaws allow for individual adjustment to the desired reach.





Renefit

• Universally applicable due to adjustable reach.

#	4 021176	ıήı	L ←—→	I			o mm	=	i
	EAN	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	kg/lb
Y205-25	-039393	300 11 13/16	548 21 9/16	33 1 5/16	102 4 1/64	30 1 3/16	30 1 3/16	5 3/16	3,4 7,497
Y205-26	-117893	600 23 5/8	850 33 7/16	33 1 5/16	102 4 1/64	30 1 3/16	30 1 3/16	5 3/16	3,2 7,056
Y305-25	-041358	520 20 1/2	805 31 11/16	41 1 5/8	125 4 15/16	39 1 9/16	35 1 3/8	5 3/16	8,6 18,963
Y505-25	-043338	700 27 9/16	1.100 43 5/16	50 1 15/16	150 5 7/8	30 1 3/16	42 1 5/8	10 3/8	15,1 33,296
Y205-00-S	-469176	300 11 13/16	548 21 9/16	33 1 5/16	102 4 1/64	30 1 3/16	30 1 3/16	5 3/16	14,565 32,116

SERIES Y0-205 2-JAW PULLER WITH SWIVELING EXTRACTOR JAWS (WITHOUT HYDRAULIC HOLLOW PISTON CYLINDER FOR PUMP DRIVE)



The 2-jaw pullers with swiveling jaws of the Y-205 series are used for pulling particularly large and stuck bearings, gears, discs, etc. in crafts, industry, and workshops. Due to their simple adjustability, the puller is also suitable for various pulling situations. A hydraulic hollow piston cylinder of the YRH series is also required for use.

Benefits

- · Universally usable thanks to adjustable reach
- The greater the pulling force, the stronger the grip of the jaws on the workpiece being pulled.

Technical attributes

#	4 021176	\Box	\Box	Max. tensile force	Max. tractive force	i	CONTINUENT
	EAN	mm/inch	mm/inch	kN	t/US t. sh.	kg/lb	
Y20-205	-035906	0 - 420 0 - 16 9/16	300 11 13/16	200	20 22.05	11,425 25,192	YRH-202, Y205-20, Y206-30
Y20-215	-833892	0 - 420 0 - 16 9/16	600 23 5/8	200	20 22.05	0 0,000	YRH-202
Y30-205	-036996	0 - 700 0 - 27 9/16	520 20 1/2	300	30 33.07	25 55,125	YRH-302, Y305-20, Y306-30
Y50-205	-037986	0 - 1.000 0 - 39 3/8	700 27 9/16	500	50 55.12	50 110,250	YRH-603, Y505-20, Y506-30
Y50-215	-854651	0 - 1.000 0 - 39 3/8	1.200 47 1/4	500	50 55.12	0 0,000	YRH-603

SERIES Y0-206 3-JAW PULLER WITH SWIVELING EXTRACTOR JAWS (WITHOUT HYDRAULIC HOLLOW PISTON CYLINDER FOR PUMP DRIVE)



The 3-jaw pullers with swiveling puller jaws of the Y-206 series are used for pulling particularly large and stuck bearings, gears, discs, etc., in crafts, industry, and workshops. Due to their easy adjustability, the puller is also suitable for various pulling situations. A hydraulic hollow piston cylinder of the YRH series is also required for use.

Benefits

- · Universally applicable thanks to adjustable reach
- The larger the pulling force, the stronger the grip of the jaws on the workpiece being pulled.

#	 	\Box		Max. tensile force	Max. tractive force	i	Section 1997
	EAN	mm/inch	mm/inch	kN	t/US t. sh.	kg/lb	
Y20-206	-036163	0 - 500 0 - 19 11/16	300 11 13/16	200	20 22.05	16,44 36,250	YRH-202, Y205-20, Y206-30
Y30-206	-037153	0 - 900 0 - 35 7/16	520 20 1/2	300	30 33.07	40 88,200	YRH-302, Y305-20, Y306-30
Y50-206	-038143	0 - 1.200 0 - 47 1/4	700 27 9/16	500	50 55.12	80 176,400	YRH-603, Y505-20, Y506-30
Y20-216	-833908	0 - 500 0 - 19 11/16	600 23 5/8	200	20 22.05	0 0,000	YRH-202
Y50-216	-854668	0 - 1.200 0 - 47 1/4	1.200 47 1/4	500	50 55.12	0 0,000	YRH-603

SERIES Y0-208 3-JAW PULLER WITH SWIVELING JAWS (WITHOUT HYDRAULIC PRESSURE CYLINDER FOR PUMP DRIVE)



The 3-jaw combination pullers with swiveling puller jaws from series Y-208 are used for pulling particularly large and tight-fitting bearings, gears, discs, etc. in craft, industry, and workshops. Combination pullers can be used both as 3-jaw and 2-jaw. A hydraulic pressure cylinder with collar thread from series YRE is also required for application.

Benefits

- Universally applicable thanks to adjustable reach and number of hooks
- The larger the pull force, the stronger the grip of the jaws on the workpiece being pulled.

Technical attributes

#	 	<u> </u>	ťij	Max. tensile force	Max. tractive force	i	COMBINERAR
	EAN	mm/inch	mm/inch	kN	t/US t. sh.	kg/lb	
Y05-208	-172366	0 - 250 0 - 9 13/16	215 8 7/16	45	4.5 4.96	3,29 7,254	YRE-050
Y10-208	-172441	0 - 500 0 - 19 11/16	500 19 11/16	100	10 11.02	1,32 2,911	YRE-101

SERIES Y20-11 3-JAW PULLER WITH ADJUSTABLE REACH (WITHOUT HYDRAULIC HOLLOW PISTON CYLINDER)

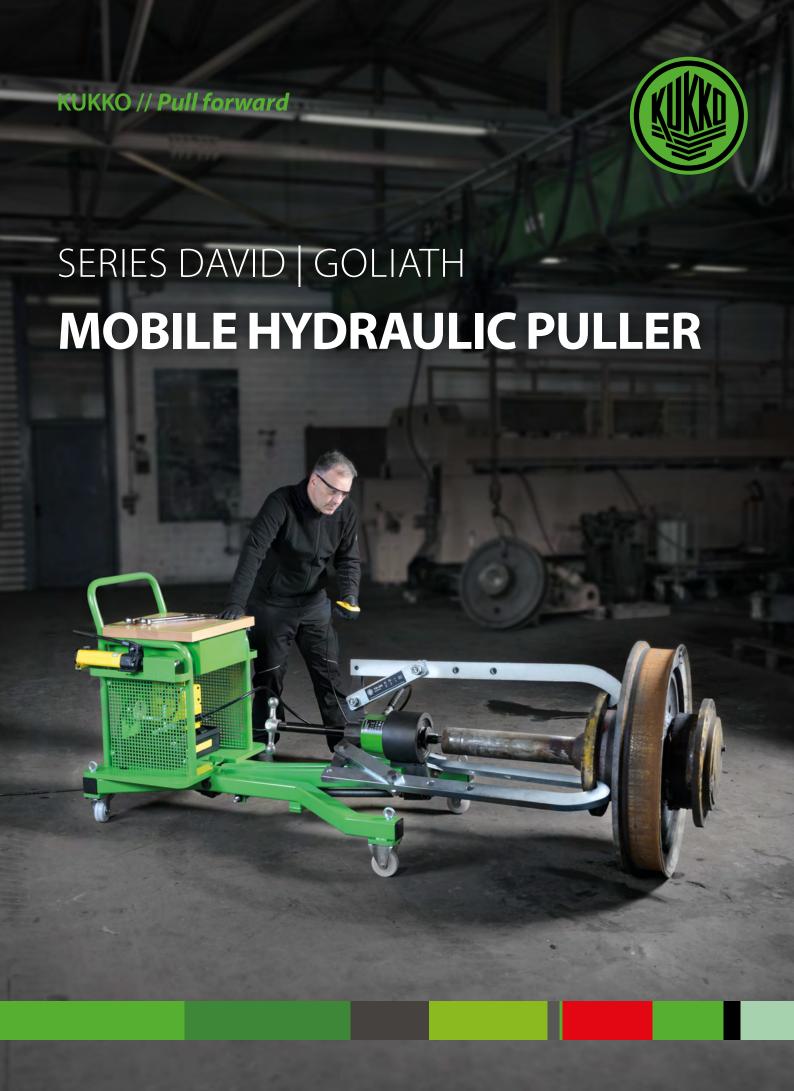


The 3-jaw pullers with adjustable reach of the Y20-11 series are used for pulling particularly large and stuck bearings, gears, discs, etc. in crafts, industry, and workshops. The extra-strong design is capable, thanks to parallel jaws, of safely and efficiently pulling components in any position and under full load. A hydraulic hollow piston cylinder of the YRH series is also required for use.

Benefits

- Three-jaw design ensures an even load distribution and thus a particularly secure grip on the part being pulled.
- The pulling hooks can be moved on the crossbar, adjusted in length, and used as external and internal pullers in various pulling situations by turning them around.

#		\Box		Max. tensile force	Max. tractive force	COMBINERA
	EAN	mm/inch	mm/inch	kN	t/US t. sh.	
Y20-11-0	-469718	500 19 11/16	280 - 600 11 1/32 - 23 5/8	200	20 22.05	YRH-202
Y20-11-1	-711626	500 19 11/16	280 - 600 11 1/32 - 23 5/8	200	20 22.05	YRH-202
Y20-11-2	-711633	500 19 11/16	290 - 740 11 7/16 - 29 1/8	200	20 22.05	YRH-202



The hydraulic, mobile 3-jaw puller with adjustable reach "DAVID" is used for pulling large bearings, gears, and similar components in heavy industry, crafts, and workshops. With a maximum load of 20 t, the puller provides a strong hydraulic solution for otherwise challenging tasks when pulling large parts.

Benefits

- Even under full load, the DAVID ensures parallel pulling.
- The lever actuation is swivelable 360° for ergonomic operation from outside the work area.
- The lowering of load with the sink actuator reduces the risk of accidents thanks to the easily accessible valve.
- Operable by means of the four swivel casters at various work locations
- The three-jaw design ensures even load distribution and thus provides a particularly secure grip on the part being pulled off.

ASSEMBLY



APPLICATION EXAMPLES



The mobile hydraulic puller "DAVID" in application

USE: HYDRAULIC PULLER "GOLIATH"

The mobile hydraulic puller "GOLIATH" is used for pulling large bearings, gears, and similar components in the areas of heavy industry, railways, power plants, and other applications. With a pulling force of up to 50 t, the hydraulic puller is the ideal solution for truly large pulling operations. The puller can be used as both a 2-jaw and a 3-jaw puller.

Benefits

- · Hydraulics ensures easy and controlled removal of particularly large and stuck parts with minimal effort.
- Y-shaped, mobile carrier frame with the 4 smooth rolling rollers (including locking option) allows for easy and comfortable attachment of the puller and guarantees a secure stand.
- The hydraulic puller can be used as both a 2-jaw and a 3-jaw.
- Hydraulic height adjustment ensures comfortable working
- Magnetic closure ensures a quick exchange of the spindle tip (series 140)

ASSEMBLY







The mobile hydraulic puller "GOLIATH" Goliath-556 when removing a stuck wheel bearing from a harbor crane.

SERIES GOLIATH MOBILE HYDRAULIC PULLER "GOLIATH" WITH ADJUSTABLE REACH



The mobile hydraulic puller "GOLIATH" is used for pulling off large bearings, gears, and similar components in the heavy industry, railway, power plants, and other applications. With a pulling force of up to 50 tons, the hydraulic puller is the ideal solution for truly large pulling processes. The application of the pulling force on the pressure cylinder equipped with a central pressure spindle is performed by a two-stage electric-hydraulic pump, which is operated via remote control. The puller can be used as both a 2-jaw and a 3-jaw puller.

Benefits

- Hydraulics ensure easy and controlled removal of particularly large and seized parts with minimal effort.
- · Hydraulic height adjustment guarantees comfortable working
- The Y-shaped, mobile supporting frame with the 4 smooth rolling rollers (including locking capability) allows for easy and comfortable attachment of the puller and guarantees a secure stance.
- The hydraulic puller can be used as both a 2-jaw and a 3-jaw tool.

Technical attributes

#	4021176	\Box			\bigcirc	4	Max. tensile force	Max. tractive force	
	EAN	mm/inch	mm/inch	mm/inch	bar	V	kN	t/US t. sh.	kg/lb
Goliath-256	-102714	0 - 500 0 - 19 11/16	300 11 13/16	400 - 1000 15 3/4-39 3/8	700	230 V	200	20 22.05	225 496,125
Goliath-356	-102752	0 - 900 0 - 35 7/16	520 20 1/2	400 - 1000 15 3/4-39 3/8	700	230 V	300	30 33.07	257 566,685
Goliath-556	-102783	0 - 1.200 0 - 47 1/4	700 27 9/16	400 - 1000 15 3/4-39 3/8	700	230 V	500	50 55.12	328 723,240

SERIES GOLIATH-200 MOBILE HYDRAULIC PULLER "GOLIATH" WITH ADJUSTABLE REACH



The mobile hydraulic separator "GOLIATH" is used for disassembling large bearings, gears, and similar components in heavy industry, railways, power plants, and other applications. With a pulling force of up to 50 tons, the "GOLIATH" is the solution for truly large pulling processes. The combination of hydraulic height adjustment and mechanical fine adjustment allows for easy and precise work. Only one person is required for the operation. The application of the pulling force on the pressure cylinder equipped with a central pressure spindle is performed by a two-stage electro-hydraulic pump, which is operated via a motor remote control.

Benefits

- Enables tremendous pulling forces of up to 50 t
- Hydraulic height adjustment and mechanical fine adjustment ensure precise work.
- The application of the pulling force is carried out by a two-stage electro-hydraulic pump.
- Simple and comfortable mounting of the puller through Y-shaped, movable support frame with the 4 smooth rolling rollers.

#	4021176	\Box	ijΙ			0	4	Max. tensile force	Max. tractive force	
	EAN	mm/inch	mm/inch	mm/inch	mm/inch	bar	V	kN	t/US t. sh.	kg/lb
Goliath-200	-102691	0 - 500 0 - 19 11/16	300 11 13/16	25 - 155 1 - 6 1/8	400 - 1000 15 3/4-39 3/8	700	230 V	200	20 22.05	263 579,915
Goliath-300	-102738	0 - 900 0 - 35 7/16	520 20 1/2	30 - 250 1 3/16 - 9 13/16	400 - 1000 15 3/4-39 3/8	700	230 V	300	30 33.07	335 738,675
Goliath-500	-102769	0 - 1.200 0 - 47 1/4	700 27 9/16	80 - 420 3 1/8 - 16 9/16	400 - 1000 15 3/4-39 3/8	700	230 V	500	50 55.12	489 1,078,245

SERIES GOLIATH-218 MOBILE HYDRAULIC PULLER "GOLIATH" WITH ADJUSTABLE REACH



The mobile hydraulic separator "GOLIATH" is used for disassembling large bearings, gears, and similar components in heavy industry, railways, power plants, and other applications. With a pulling force of up to 50 tons, the "GOLIATH" is the solution for truly large pulling processes. The combination of hydraulic height adjustment and mechanical fine adjustment allows for easy and precise work. Only one person is required for the operation. The application of the pulling force on the pressure cylinder equipped with a central pressure spindle is performed by a two-stage electro-hydraulic pump, which is operated via a motor remote control.

Benefits

- Enables tremendous pulling forces of up to 50 t
- Hydraulic height adjustment and mechanical fine adjustment ensure precise work.
- The application of the pull-off force is achieved through a two-stage electric hydraulic pump.
- Simple and convenient attachment of the puller via Y-shaped, movable frame with 4 smooth rolling rollers.

Technical attributes

#	4021176	\Box			\bigcirc	4	Max. tensile force	Max. tractive force	i
	EAN	mm/inch	mm/inch	mm/inch	bar	V	kN	t/US t. sh.	kg/lb
Goliath-218	-102707	300 11 13/16	25 - 155 1 - 6 1/8	400 - 1000 15 3/4-39 3/8	700	230 V	200	20 22.05	213 469,665
Goliath-318	-102745	520 20 1/2	30 - 250 1 3/16 - 9 13/16	400 - 1000 15 3/4-39 3/8	700	230 V	300	30 33.07	299 659,295
Goliath-518	-102776	520 20 1/2	80 - 420 3 1/8 - 16 9/16	400 - 1000 15 3/4-39 3/8	700	230 V	500	50 55.12	361 796,005

SERIES Y-X00 MOUNTING FOR HYDRAULIC CYLINDER



The recordings of hydraulic cylinders from the series Y-X00 are used to secure tools in the hydraulic program of KUKKO in crafts, industry, and workshops. The adapters in various sizes secure heavy equipment to the respective hydraulic device and are suitable for the GOLIATH series, among others.

#	4021176I		THE MANAGEMENT OF THE PARTY OF
	EAN	nominal dimension	
Y200-00	-507724	3 7/8"-12 UN	Y28-180, Y28-205, Y28-206, Y28-200, Y28-218, Y28-256, Goliath-200, Goliath-218, Goliath-256, YRH-202, YRH-206
Y300-00	-507748	4 1/2"-12 UN	Y38-180, Y38-205, Y38-206, Y38-300, Y38-318, Y38-356, Goliath-300, Goliath-318, Goliath-356, YRH-302
Y500-00	-507755	6 1/4"-12 UN	Y58-180, Y58-205, Y58-206, Y58-500, Y58-518, Y58-556, Goliath-500, Goliath-518, Goliath-556, YRH-603

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SERIES DAVID MOBILE 3-JAW HYDRAULIC PULLER "DAVID" WITH ADJUSTABLE REACH



The hydraulic, mobile 3-jaw puller with adjustable reach "DAVID" is used for pulling large bearings, gears, and similar components in heavy industry, trade, and workshops. With a maximum load capacity of 20 tons, the puller provides a strong, hydraulic solution for otherwise difficult tasks in pulling large parts. The jaws are adjustable in length and can be adapted to the required reach.

Benefits

- Even under full load, the DAVID ensures parallel pulling.
- The three-jaw design guarantees even load distribution and thereby a particularly secure hold on the part to be pulled off.
- The lever actuation is rotatable by 360° for ergonomic operation from the work area.
- The lowering device for controlled load lowering reduces the risk of accidents thanks to the easily accessible valve.

#	4021176	<u> </u>	ť		Ø	Max. tensile force	Max. tractive force	i
	EAN	mm/inch	mm/inch	mm/inch	bar	kN	t/US t. sh.	kg/lb
YHU-S-Y28-11-1	-060144	0 - 520 0 - 20 1/2	500 19 11/16	165 - 890 6 1/2-35 1/32	700	200	20 22.05	204 449,820







INTERNAL EXTRACTION

During internal extraction, components that sit in a recess and therefore cannot be gripped from the outside are dismantled without destruction. A sliding hammer or a counter stay is always required to extract internal parts. With a sliding hammer, extraction can be done in a confined space without external support, whereas a counter stay allows for more precise work and greater force.



Internal extractors are used for extracting internal bearings, bearing outer rings, and bushings in craft, workshop, and industry. The internal extractors of series 21 feature extra-large gripping edges, allowing for the secure extraction of internal parts. Depending on the application, there are various sizes of 2-jaw or 3-jaw internal extractors. The segmented design of series 21-E with extra fine gripping edges allows for the secure extraction of flush-mounted parts.

Benefits

- The robust design as well as the built-in spindle stop quarantee strong and safe operation.
- Due to the extraordinary clamping force and the mechanical spindle, bearings that are closely seated on the back wall are safely and quickly extracted.
- Shaping ensures secure gripping when seating and swiveling for bearings or inner rings that form a blind hole.
- The segment pullers of series 21-E are ideal for precise and gentle work due to their segmentation and fine spindle.

ASSORTMENT OVERVIEW

Internal extractor





In the internal extractors, a distinction can be made between multi-layer models (series 21) with extra-large gripping edges and segmented models (series 21-E) with extra-fine gripping edges.

Internal extractor suitcase sets



27-A



28-A

The internal extractors are also available in portable, fully equipped case sets. These compact to-go solutions include everything needed for the non-destructive disassembly of internal components.

Internal extractor special applications



Whether for removing cylinder sleeves, pulling off parts with centric threaded holes, or for the disassembly of clamping and notch pins -KUKKO provides the perfect solution for every pulling situation.





ADVANTAGES OF COUNTER STAYS AND SLIDING HAMMER

When using an internal extractor, a sliding hammer (series 22-0) or a counter stay (series 22) is always required. The advantage of the sliding hammer is that it can be extracted in a very tight space without a counter stay, whereas with a counter stay, work is done more precisely and with more force.

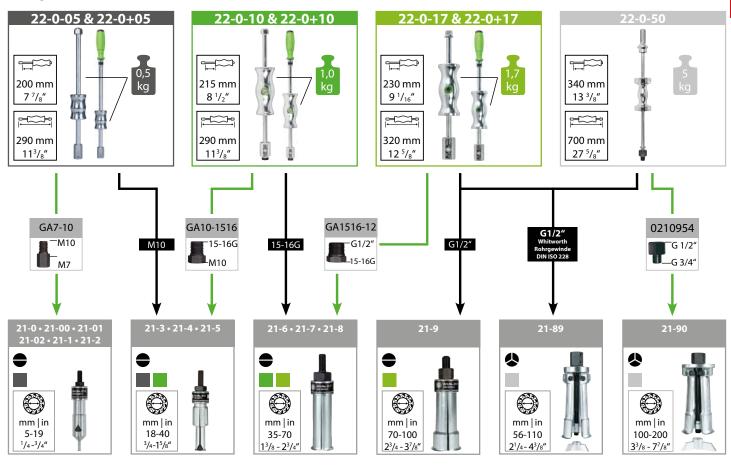


Internal extractor with sliding hammer

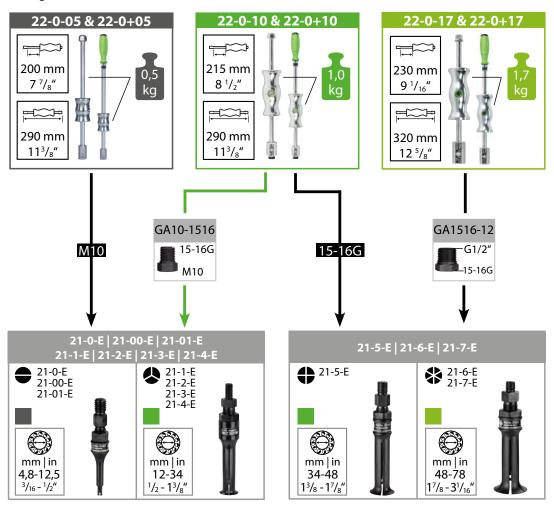


Internal extractor with counter stay

Sliding hammers of the series 22-0 in combination with the internal extractors of the series 21



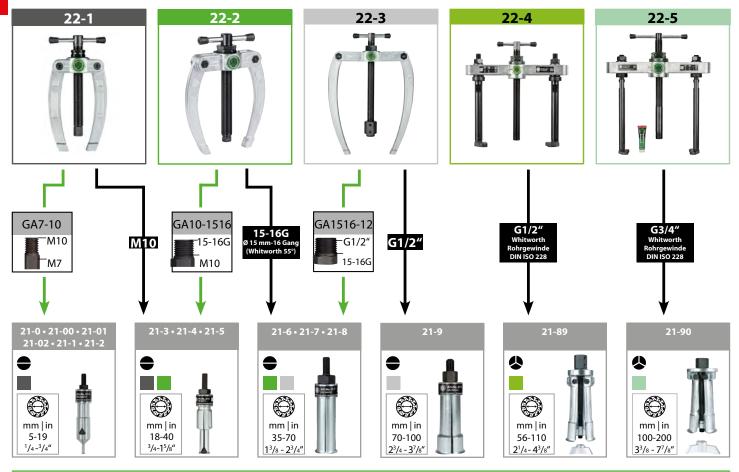
Sliding hammers of series 22-0 in combination with internal extractors of series 21-E



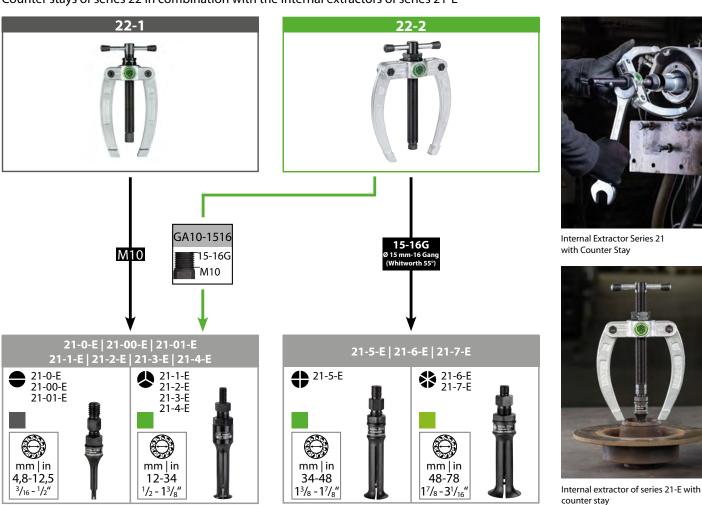


Internal extractor of series 21\nwith

Counter stays of series 22 in combination with the internal extractors of series 21



Counter stays of series 22 in combination with the internal extractors of series 21-E



Using an extension (series 21-V), the reach can be expanded on the internal extractors of the series 21. This also allows for the access to components seated deeper in the socket.

21-V-040

21-V-060

21-V-080

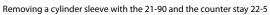
21-V-310



21-V-0

APPLICATION EXAMPLES







Internal extraction of a ball bearing with the 21-4 and a sliding hammer

SERIES 21 2-JAW INTERNAL EXTRACTOR



The internal extractors of the series 21 are used for pulling out internal bearings, bearing outer rings, and bushings in craftsmanship, workshops, and industry. The multi-shelled design of the internal extractors with their extra large gripping edges allows for the safe pulling out of internal components. The series 21 impresses with its compatibility and versatility of applications. Depending on the application, there are numerous variants of the optionally 2-jaw or 3-jaw internal extractors. They are used either together with counter stays or with sliding hammers.

Benefits

- The robust construction and built-in spindle stop not only ensure strong but also safe work.
- Due to the extraordinary clamping force and the mechanical spindle, even bearings that are closely seated on the back wall are securely and quickly removed.
- The design of bearings or inner rings that form a blind hole ensures a secure grip during mounting and turning out.
- The thread adapters for internal extractors are included with the counter stays and sliding hammers.

#	4021176		i.	Ø ±		SW	i	Included in the set
••	EAN	mm/inch	∏‡ mm/inch	T mm/inch	nominal dimension	mm/inch	kg/lb	
21-0	-010408	5 - 8 3/16 - 5/16	12 1/2	17 11/16	M7	13 1/2	0,115 0,254	-
21-00	-010576	6 - 10 1/4 - 3/8	12 1/2	17 11/16	M7	13 1/2	0,12 0,265	28-A, K-22-A-C
21-01	-010651	8 - 12 5/16 - 1/2	13 1/2	17 11/16	M7	13 1/2	0,115 0,254	28-A, K-22-A-M
21-02	-010736	10 - 14 3/8 - 9/16	15 9/16	17 11/16	M7	13 1/2	0,115 0,254	28-A, K-22-A-C
21-1	-010811	12 - 16 1/2 - 5/8	25 1	17 11/16	M7	13 1/2	0,11 0,243	25-C, 26-B, 28-A, 28-B, 28-C, 28-D, 24-A, 24-B, 24-C, 25-A, 25-B
21-2	-010996	14 - 19 9/16 - 3/4	27 1 1/16	30 1 3/16	M7	13 1/2	0,12 0,265	25-C, 26-B, 28-A, 28-B, 28-C, 28-D, 24-A, 24-B, 24-C, K-22-A-M, K-22-A-C, 25-A, 25-B
21-3	-011153	18 - 23 11/16 - 7/8	35 1 3/8	25 1	M10	17 11/16	0,225 0,496	25-C, 26-B, 28-B, 28-C, 28-D, 24-A, 24-B, 24-C, 25-A, 25-B
21-4	-011238	20 - 30 13/16 - 1 3/16	40 1 9/16	25 1	M10	17 11/16	0,235 0,518	25-C, 26-B, 28-B, 28-C, 28-D, 24-A, 24-B, 24-C, K-22-A-M, K-22-A-C, 25-A, 25-B
21-5	-011498	28 - 40 1 1/8 - 1 9/16	28 1 1/8	31 1 1/4	M10	17 11/16	0,395 0,871	25-C, 26-B, K-26-B, 28-B, 28-C, 28-D, 24-A, 24-B, 24-C, K-22-B, K-22-A-M, K-22-B-C, 25-A, 25-B
21-6	-011566	35 - 46 1 3/8 - 1 13/16	48 1 7/8	37 1 7/16	15-16 G	22 7/8	0,68 1,499	25-B, 25-C, K-26-B, 28-C, 28-D, 24-A, 24-B, 24-C, K-22-B, K-22-B-C, 25-A
21-7	-011641	45 - 58 1 3/4 - 2 5/16	100 3 15/16	45 1 3/4	15-16 G	32 1 1/4	1,23 2,712	25-B, 25-C, K-26-B, 28-D, 24-B, 24-C, K-22-B, K-22-B-C
21-8	-011726	56 - 70 2 3/16 - 2 3/4	100 3 15/16	45 1 3/4	15-16 G	32 1 1/4	1,43 3,153	25-B, K-26-B, 28-D, 24-B, K-22-B, K-22-B-C
21-89	-011801	56 - 110 2 3/16 - 4 5/16	120 4 3/4	70 2 3/4	G 1/2	32 1 1/4	2,4 5,292	25-C, 25-D, 24-C
21-9	-011986	70 - 100 2 3/4 - 3 15/16	130 5 1/8	58 2 5/16	15-16 G	32 1 1/4	2,9 6,395	-
21-90	-012068	100 - 200 3 15/16 - 7 7/8	175 6 7/8	110 4 5/16	G 1/2	32 1 1/4	6,58 14,509	-

SERIES 21-E SEGMENT INTERNAL EXTRACTOR



The segment internal extractors of series 21-E are used for extracting flush-mounted bearings, bearing outer rings, sleeves, and seals in crafts, workshops, and industry. The segmented design with extra fine gripping edges allows for the safe extraction of flush-mounted parts. The 21 series impresses with its compatibility and application diversity. Depending on the application, there are numerous variants of the segment internal extractors. They are either used together with counter stays or with sliding hammers.

Benefits

- Due to its segmentation and fine spindle design, the segment puller is ideal for precise and gentle work.
- The mechanical spindle extracts bearings that are tightly seated on the back wall safely and quickly.
- The shaping ensures a secure grip when seating and swiveling for bearings or inner rings that form a blind hole.
- The thread adapters for internal extractors are included in the delivery of the counter stays and sliding hammers.

#	4021176		i i i i i i i	ġ Ħ		SW 	i	Included in the set
	EAN	mm/inch	mm/inch	mm/inch	nominal dimension	mm/inch	kg/lb	
21-0-E	-909153	4,8 - 6,5 3/16 - 1/4	30 1 3/16	15 9/16	M10	10 3/8	0,5 1,103	27-A, K-22-A-E, K-22-C-E
21-00-E	-909160	6,8 - 9,5 1/4 - 3/8	30 1 3/16	15 9/16	M10	10 3/8	0,5 1,103	27-A, K-22-A-E, K-22-C-E
21-01-E	-909177	9,5 - 12,5 3/8 - 1/2	30 1 3/16	15 9/16	M10	10 3/8	0,5 1,103	K-22-A-E, K-22-C-E
21-1-E	-930003	12 - 16 1/2 - 5/8	35 1 3/8	25 1	M10	14 9/16	0,17 0,375	27-A, K-22-A-E, K-22-B-E, K-22-C-E
21-2-E	-931000	14 - 19 9/16 - 3/4	38 1 1/2	25 1	M10	14 9/16	0,175 0,386	27-A, K-22-B-E, K-22-C-E
21-3-E	-931109	18 - 23 11/16 - 7/8	45 1 3/4	25 1	M10	14 9/16	0,21 0,463	27-A, K-22-B-E, K-22-C-E
21-4-E	-909191	24 - 34 15/16 - 1 5/16	55 2 3/16	25 1	M10	17 11/16	0,25 0,551	27-A, K-22-B-E, K-22-C-E
21-44-E	-039300	15 - 20 9/16 - 13/16	45 1 3/4	25 1	M10	14 9/16	0,2 0,441	-
21-5-E	-924071	34 - 48 1 5/16 - 1 7/8	73 2 7/8	26 1 1/32	15-16 Gang	19 3/4	0,215 0,474	27-A
21-6-E	-924088	48 - 63 1 7/8 - 2 1/2	80 3 1/8	35 1 3/8	15-16 Gang	24 15/16	0,71 1,566	-
21-7-E	-924095	63 - 78 2 1/2 - 3 1/16	82 3 1/4	35 1 3/8	15-16 Gang	24 15/16	0,86 1,896	

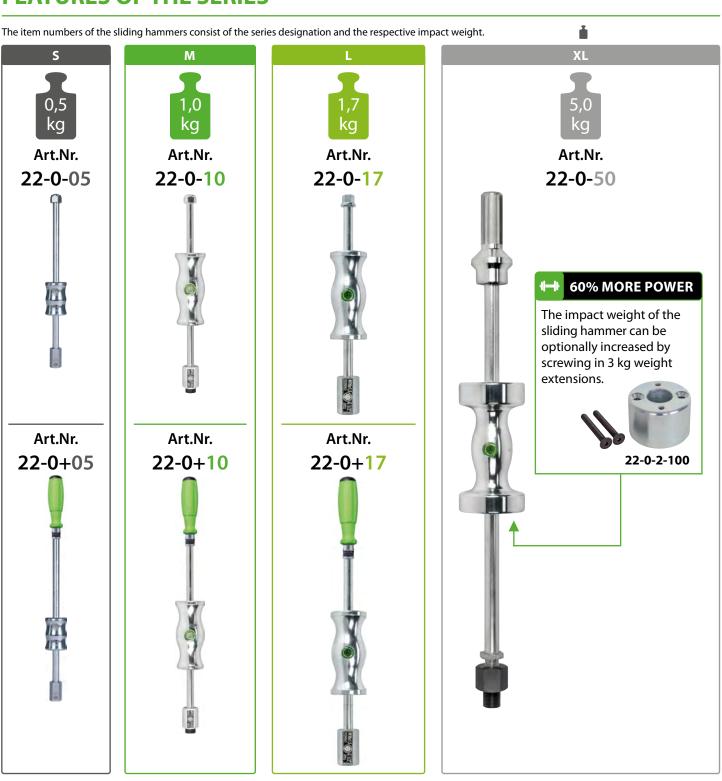


The robust sliding hammers of the series 22-0 are the perfect choice for a contactless and material-saving disassembly. No support surface is needed for the pulling process. This allows work in the tightest spaces or under restricted environmental conditions. Thanks to the ergonomically shaped, solid sliding piece, the applied force can be optimally transferred, and a strong shock effect can be achieved. The sliding hammers differ in size and impact weight depending on the required force.

Benefits

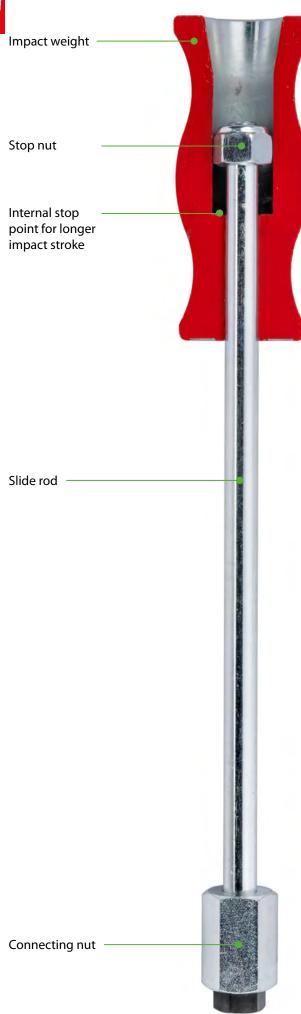
- · High quality in processing and design for optimal handling
- Non-destructive and gentle removal of internal bearings, gears, dowel pins, etc.
- · Reversible impact weight to extend the impact stroke for even more striking power
- · Ergonomically shaped, solid sliding piece for ideal force transmission
- The internal stop point prevents crushing and ensures a safe working process.
- Especially suitable for deeper-seated components

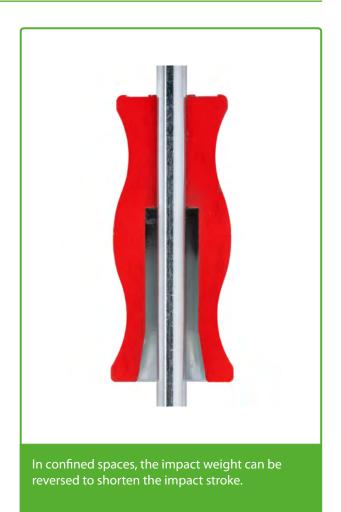
FEATURES OF THE SERIES



STRUCTURE AND CROSS-SECTION OF A SLIDING HAMMER









ASSORTMENT OVERVIEW

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The sliding hammer can be purchased as a standalone product in four different sizes. It is ideally suited for universal use to extract internal components.

Sliding hammer in tool case



KS-22-01



The sliding hammer is also available in portable, fully equipped suitcase sets. These compact to-go solutions include internal extractors and thread adapters in various sizes and – depending on the version – a counter stay for even more precise and powerful extraction.

K-22-B

Sliding hammer special applications



223-2

When changing a hub, removing a seal ring, or pulling out dowel pins - the sliding hammer is the powerful drive for various pulling processes.

Optional Extensions

TIP:

For an even better handling, use the 3-component grip G-22, which is **comp**atible with all KUKKO sliding hammers. This way, you always have everything firmly in hand – before, during, and after the pulling process.





COMBINATIONS



Sliding hammer

22-0-05 22-0-10 22-0-17

22-0-50

Series 22-0



Series VM

Connecting Nut

Connecting nuts are the coupling between the sliding hammer and adapters and can be screwed onto any compatible external thread.

Thread adapter

for adjusting the thread diameter

Series GE





Series GA



TIP FOR THREAD ADJUSTMENT:

Thanks to the movable threaded pin, the adapters GA3 to GA12-10 can be used as both internal and external threads by unscrewing.

Internal Extractor

for extracting internally located components

Series 21



Series 21-E



APPLICATION EXAMPLES



Removing a ball bearing with a sliding hammer and an internal extractor from series 21



Removing a ball bearing with a sliding hammer and the puller 220-2

SERIES 22-0 SLIDING HAMMER DEVICE



The sliding hammer devices of series 22-0 are used together with internal extractors of series 21 in crafts, industry, and workshops. The use of a sliding hammer is particularly recommended when there is no support surface available or this is too sensitive. The ergonomically shaped, solid sliding piece allows the applied force to be optimally transmitted and a strong shock effect to be achieved. This also ensures contactless and gentle extraction. Various sizes and accessories make sliding hammers with impact weights from 500 g to 8 kg available for every application case.

Benefits

- The shape of the sliding piece allows for a high impact weight of the sliding hammer with simple application.
- The internal stop point prevents crushing and ensures a safe working process.
- If there is not enough space, the impact weight can be turned over

Technical attributes

#	4021176				↓		i	Included in the set
	EAN	mm/inch	mm/inch	kg	nominal dimension	nominal dimension	kg/lb	
22-0-05	-283697	325 12 13/16	200 7 7/8	0.5	M7	M10	0,85 1,874	K-22-A-E, K-22-B-E
22-0-10	-385070	300 11 13/16	250 9 13/16	1	-	-	1,44 3,175	-
22-0-17	-385087	370 14 9/16	250 9 13/16	1.7	15-16 G	G 1/2	2,71 5,976	26-B, K-26-B, 28-A, 28-B, K-22-C-E, KS-22-01, KS-22-01-UNC, KS-22-02, 223-G, 223-K
22-0-50	-385094	700 27 9/16	340 13 3/8	5	G 3/4	G 1/2	8,83 19,470	-

SERIES 22-0+ SLIDING HAMMER DEVICE



Technical attributes

The sliding hammer devices of series 22-0+ are used together with internal extractors of series 21 in crafts, industry, and workshops. The use of a sliding hammer is particularly recommended when there is no support surface available or this surface is too sensitive. The massive sliding piece allows for optimal force transfer and achieves a strong shock effect. This also ensures contactless and gentle extraction. The ergonomically shaped 2-component handle (PB Swiss) guarantees maximum power transmission even with wet and oily hands.

Benefits

- The shape of the sliding piece allows for a high impact weight of the sliding hammer with simple application.
- The internal stop point prevents crushing and ensures a safe working process.

#	4021176	L ← —→	Ø		→				
	EAN	mm/inch	mm/inch	nominal dimension	nominal dimension	kg	mm/inch	mm/inch	kg/lb
22-0+05	-060847	325 12 13/16	40 1 9/16	M10	M7	0.5	200 7 7/8	19 3/4	0,85 1,874
22-0+10	-060854	300 11 13/16	50 1 15/16	-	-	0.9	250 9 13/16		1,44 3,175
22-0+17	-060861	370 14 9/16	60 2 3/8	G 1/2	15-16 G	1.7	250 9 13/16	32 1 1/4	2,71 5,976



26-B 10-PIECE INTERNAL EXTRACTOR SET



The 10-piece internal puller set for impact operation 26-B is used for pulling internal bearings, bearing outer rings, and bushings in crafts, workshops, and industry. The two-shell design of the internal pullers with its extra large gripping edges allows for the safe extraction of internal parts. The included sliding hammer is used in conjunction with the internal pullers.

Benefits

- By storing it in the box, the completeness of the set can be easily overviewed.
- The internal extractors, along with the sliding hammer, are capable of finding a suitable response in various pulling situations.
- The sliding hammer allows for optimal and safe extraction in varying applications depending on the existing conditions.

Technical attributes

#	4 021176							Max. tractive force	i	Components
	EAN	mm/inch	mm/inch	mm/inch	kg	nominal dimension	nominal dimension	t/US t. sh.	kg/lb	
26-B	-781704	12 - 38 1/2-1 1/2	370 14 9/16	250 9 13/16	1.7	M7, M10, 15-16G	G1/2	{8328}	4,74 10,452	22-0-17, GA10-1516, GA7-10, 21-1, 21-2, 21-3, 21-4, 21-5, VM1615-12, GA1516-12

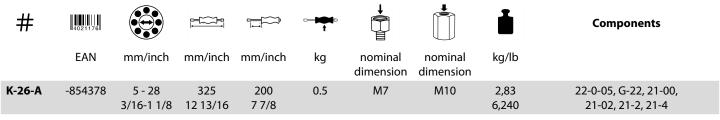
K-26-A 6-PIECE BALL BEARING PULLER SET WITH SLIDING HAMMER



The 6-piece ball bearing puller set K-26-A is used for extracting internal bearings, bearing outer rings, and bushings in crafts, workshops, and industry. The 2-jaw design of the internal extractors with their extra large gripping edges allows for the safe extraction of internal parts. The included sliding hammer is used together with the internal extractors.

Benefits

- By storing it in the box, the completeness of the set can be easily overviewed.
- The internal extractors, along with the sliding hammer, are capable of finding a suitable response in various pulling situations.
- The sliding hammer allows for optimal and safe extraction in varying applications depending on the existing conditions.



K-26-B 7-PIECE BALL BEARING PULLER SET WITH SLIDING HAMMER



The 7-piece ball bearing puller set K-26-B is used for extracting internal bearings, bearing outer rings, and bushes in crafts, workshops, and industry. The 2-shell design of the internal extractors with their extra large gripping edges allows for the safe extraction of internal parts. The included sliding hammer is used together with the internal extractors.

Benefits

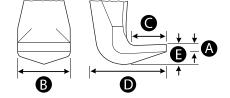
- The internal extractors, along with the sliding hammer, are capable of finding a suitable response in various pulling situations.
- The sliding hammer allows for optimal and safe extraction in varying applications depending on the existing conditions.

Technical attributes

#	4021176							i	Components
	EAN	mm/inch	mm/inch	mm/inch	kg	nominal dimension	nominal dimension	kg/lb	
K-26-B	-854392	28 - 70 1 1/8-2 3/4	300 11 13/16	250 9 13/16	1	M10	15-16G	8,435 18,599	22-0-10, 21-5, 21-6, 21-7, 21-8, G-22, VM12-1516, GA10-1516

SERIES 224-0 OIL HOOK





The oil hooks of the series 224-0 are used in conjunction with a sliding hammer for the removal of oil seals, shaft seals, and other seals in the automotive sector and mechanical engineering. The combination of oil hooks and sliding hammer allows for a felt or powerful striking or loosening of difficult-to-remove parts in vehicles and machines.

Benefits

- Enables the disassembly of seal rings when other pullers are not applicable.
- Available in different sizes depending on the seal diameter.



#	4021176	<u> </u>				▲		x		KOMBINERAR
	EAN	mm/inch	nominal dimension	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	kg/lb	
224-0-05 NEW	-009976	70 2 3/4	M12	12 1/2	3 1/8	8 5/16	4 3/16	1 1/32	0 0,000	22-0-05, 22-0-10
224-0-10 NEW	-009983	100 3 15/16	M16x1,5	46 1 13/16	14 9/16	24 15/16	14 9/16	4 3/16	0,3 0,662	22-0-17



Series 22 counter stays are used together with series 21 internal extractors in trade, industry and workshops. Thanks to the ribbed shape of the support feet, counter stay are particularly suitable for large cylinder liners and ball bearings etc. and ensure a firm stand when extracting. This improves the gentle extraction of internal parts. In contrast to a slide hammer, a counter stay can be used to work more precisely and with more force.

Benefits

- Determine the inner diameter of the ball bearing and select a suitable internal extractor
- Insert the internal extractor into the bore and tighten the clamping nut
- Support the counter stay on the housing and screw it onto the wedge spindle of the internal extractor
- Hold the handle of the counter stay and pull out the bearing safely by tightening the hexagon nut
- Retighten the clamping nut when pulling out

ASSEMBLY OF A COUNTER STAY



SERIES 22





The counter stays of the series 22 are used together with the internal extractors of the series 21 in crafts, industry, and workshops. Counter stays are particularly well suited for large cylinder bushings and ball bearings, etc., thanks to the ribbed shape of the support feet, and ensure a firm stand during extraction. In this way, the gentle extraction of internal components is improved. Unlike a sliding hammer, a Counter stay allows for more precise work with greater force.

Benefits

- Sizes from 21-2 are particularly low-friction due to integrated pressure bearings in the form.
- The friction resistance of the counter nut is minimized by an integrated pressure bearing.

#	4 021176	<u> </u>	D [SW ⊷		ă	Max. tensile force	Max. tractive force		Included in the set
	EAN	mm/inch	mm/inch	mm/inch	nominal dimension	nominal dimension	kN	t/US t. sh.	kg/lb	
22-1	-012228	15 - 60 9/16 - 2 3/8	115 4 1/2	22 7/8	M7, M10	M15x1,5	30	3 3.31	0,69 1,521	25-B, 25-C, 28-C, 28-D, 24-A, 24-B, 24-C, K-22-A-M, K-22-A-C, K-22-A-E, K-22-B-E, K-22-C-E, K-22-A-E-C, K-22-B-E-C, 25-A
22-2	-012303	25 - 100 1 - 3 15/16	165 6 1/2	32 1 1/4	15-16 G, M10	G 1/2	40	4 4.41	1,873 4,130	25-B, 25-C, 28-C, 28-D, 24-A, 24-B, 24-C, K-22-B, K-22-B-C, 25-A
22-3	-012488	0 - 180 0 - 7 1/16	280 11 1/32	32 1 1/4	G 1/2, 15- 16 G	G 1/2	50	5 5.51	4 8,820	-
22-4	-112478	70 - 240 2 3/4 - 9 7/16	200 7 7/8	32 1 1/4	-	G 1/2	70	7 7.72	4,1 9,041	25-D, 24-C
22-5	-012556	100 - 310 3 15/16 - 12 3/16	260 10 1/4	46 1 13/16	-	G 3/4	90	9 9.92	7,76 17,111	-

25-K 4-PIECE BALL BEARING PULLER SET WITH COUNTER STAY



The 25-K-piece ball bearing puller set 4 is used for extracting inner bearings, outer rings, and bushings in crafts, industry, and workshops. The set includes internal extractors and counter stays. The multi-layer construction of the internal extractors with their extra large gripping edges allows for the safe removal of internal parts, and together with the counter stays, internal parts can be safely removed.

Benefits

- By storing it in the box, the completeness of the set can be easily overviewed.
- The internal extractors, together with the counter stays, are able to find a suitable answer in various extraction situations.
- The sets are designed for various application fields and widths, all owing a wide range of options for internal extraction.

Technical attributes

#			<u> </u>	Max. tensile force	Max. tractive force	i	Components
	EAN	mm/inch	mm/inch	kN	t/US t. sh.	kg/lb	
25-K	-863899	5 - 19 3/16-3/4	0 - 60 0 - 2 3/8	30	3 3.31	2,165 4,774	22-1, 21-00, 21-02, 21-2

25-A 8-PIECE BALL BEARING PULLER SET WITH COUNTER STAY



The 8-piece ball bearing puller set 25-A is used for pulling internal bearings, bearing outer rings, and bushings in crafts, industry, and workshops. The set includes internal pullers and counter stays. The multi-layered design of the internal pullers with their extra-large gripping edges allows for the safe extraction of internal parts, and together with the counter stays, internal parts can be safely removed.

Benefits

- By storing it in the box, the completeness of the set can be easily overviewed.
- The internal extractors, together with the counter stays, are able to find a suitable answer in various extraction situations.
- The sets are designed for various application fields and widths, all owing a wide range of options for internal extraction.

#			<u> </u>	max. Zugkraft	max. Zugkraft		Bestandteile
		mm	mm	kN	t	kg	
25-A	4021176013058	12 - 48	0 - 100	40	4	6,5	22-1, 22-2, 21-1, 21-2, 21-3, 21-4, 21-5, 21-6



25-B 10-PIECE BALL BEARING PULLER SET WITH COUNTER STAY



The 10-piece ball bearing puller set 25-B is used for pulling internal bearings, bearing outer rings, and bushings in craft, industry, and workshop. The set includes internal extractors and counter stays. The multilayered design of the internal extractors with their extra-large gripping edges allows for the safe removal of internal parts, and together with the counter stays, internal parts can be safely removed.

Benefits

- By storing it in the box, the completeness of the set can be easily overviewed.
- The internal extractors, together with the counter stays, are able to find a suitable answer in various extraction situations.
- The sets are designed for various application fields and widths, allowing a wide range of options for internal extraction.

Technical attributes

#	4021176		<u> </u>	Max. tensile force	Max. tractive force		Components
	EAN	mm/inch	mm/inch	kN	t/US t. sh.	kg/lb	
25-B	-013133	12 - 70 1/2-2 3/4	0 - 100 0 - 3 15/16	40	4 4.41	9,94 21,918	22-1, 22-2, 21-1, 21-2, 21-3, 21-4, 21-5, 21-6, 21-7, 21-8

25-C 12-PIECE BALL BEARING PULLER SET WITH COUNTER STAY





The 12-piece ball bearing puller set 25-C is used for removing internal bearings, bearing outer rings, and bushings in crafts, industry, and workshops. The set includes internal extractors and counter stays. The multi-layered design of the internal extractors with their extra-large gripping edges allows for the safe removal of internal parts, and together with the counter stays, internal components can be safely removed.

Benefits

- By storing it in the box, the completeness of the set can be easily overviewed.
- The internal extractors, together with the counter stays, are able to find a suitable answer in various extraction situations.
- The sets are designed for various application fields and widths, allowing a wide range of options for internal extraction.

#	4021176		<u> </u>	Max. tensile force	Max. tractive force		Components
	EAN	mm/inch	mm/inch	kN	t/US t. sh.	kg/lb	
25-C	-013218	12 - 110 1/2-4 5/16	0 - 240 0 - 9 7/16	70	7 7.72	17,5 38,588	22-1, 22-2, 22-4, 21-1, 21-2, 21-3, 21-4, 21-5, 21-6, 21-7, 21-89

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25-D 3-PIECE BALL BEARING PULLER SET WITH COUNTER STAY



The 3-piece ball bearing puller set 25-D is used for extracting internal bearings, outer bearing rings, and bushings in craft, industrial, and workshop applications. The set includes internal extractors and counter stays. The multi-layer design of the internal extractors with their extra-large gripping edges allows for the safe extraction of internal parts, and together with the counter stays, internal parts can be securely removed.

Benefits

- By storing it in the box, the completeness of the set can be easily overviewed.
- The internal extractors, together with the counter stays, are able to find a suitable answer in various extraction situations.
- The sets are designed for various application fields and widths, allowing a wide range of options for internal extraction.

#	4021176		Ē	Max. tensile force	Max. tractive force	i	Components
	EAN	mm/inch	mm/inch	kN	t/US t. sh.	kg/lb	
25-D	-158803	60 - 110 2 3/8-4 5/16	70 - 240 2 3/4 - 9 7/16	70	7 7.72	9,275 20,451	22-4, 21-89



K-22-A 8-PIECE BALL BEARING EXTRACTOR SET WITH COUNTER STAY AND SLIDING HAMMER



The 8-piece ball bearing puller set with counter stay and sliding hammer K-22-A is used for pulling internal bearings, bearing outer rings, and bushings in crafts, workshops, and industry. The multi-section design of the internal extractors with their extra large gripping edges allows for the safe extraction of internal parts. The included counter stay or the sliding hammer is used together with the internal extractors, depending on whether there is sufficient support surface available. Depending on the size of the ball bearing and the extraction situation, the set is available in various designs.

Benefits

- By storing it in the box, the completeness of the set can be easily overviewed.
- The internal extractors, along with counter stays and the sliding hammer, are capable of finding an appropriate response in versatile extraction situations
- Counter stays and sliding hammers enable optimal and safe extraction depending on the existing conditions with varying applications.

Technical attributes

#	4021176		Ф				→		Max. tensile force	Max. tractive force	i	Components
	EAN	mm/ inch	mm/ inch	mm/ inch	mm/ inch	kg	nominal dimension	nominal dimension	kN	t/ US t. sh.	kg/lb	
K-22-A	-039263	5 - 28 3/16-1 1/8	15 - 60 9/16 - 2 3/8	325 12 13/16	200 7 7/8	0.5	M7	M10	30	3 3.31	4,1 9,041	21-00, 21-02, 21-2, 21-4, 22-0-05, G-22, 22-1

K-22-B 8-PIECE BALL BEARING PULLER SET WITH COUNTER STAY AND SLIDING HAMMER



The 8-piece ball bearing puller set with counter stay and sliding hammer K-22-B is used for pulling internal bearings, outer bearing rings, and bushings in crafts, workshops, and industry. The multi-shell design of the internal extractors with their extra-large gripping edges allows for the safe extraction of internal parts. The included counter stay or the sliding hammer is used together with the internal extractors, depending on whether a sufficient support area is available. Depending on the size of the ball bearing and the extraction situation, the set is available in various designs.

Benefits

- By storing it in the box, the completeness of the set can be easily overviewed.
- The internal extractors, along with counter stays and the sliding hammer, are capable of finding an appropriate response in versatile extraction situations.
- Counter stays and sliding hammers enable optimal and safe extraction depending on the existing conditions with varying applications.

#	4021176		Щ				→		Max. tensile force	Max. tractive force		Components
	EAN	mm/ inch	mm/ inch	mm/ inch	mm/ inch	kg	nominal dimension	nominal dimension	kN	t/ US t. sh.	kg/lb	
K-22-B	-854385	28 - 70 1 1/8- 2 3/4	25 - 100 1 - 3 15/16	300 11 13/16	250 9 13/16	1	M10	15-16G	40	4 4.41	1,14 2,514	21-5, 21-6, 21-7, 21-8, 22-0-10, 22-2, G-22



K-22-A-M 10-PIECE BALL BEARING PULLER SET WITH COUNTER STAY AND SLIDING HAMMER



The 10-piece ball bearing puller set with counter stay and sliding hammer K-22-A-M is used for pulling out internal bearings, outer bearing rings, and bushings in trades, workshops, and industry. With a span of 8 to 40 mm, the five different internal extractors are specifically designed for the disassembly of common bearings, outer bearing rings, and bushings in the automotive sector, making them universally applicable. The multi-layer design of the internal extractors with their extra-large gripping edges allows for secure extraction of internal parts. The included counter stay or sliding hammer is used together with the internal extractors, depending on whether there is a sufficient support surface available.

Benefits

- By storing it in the box, the completeness of the set can be easily overviewed.
- The internal extractors, together with counter stays and the sliding hammer, are capable of finding a suitable solution in various extraction situations.
- Counter stays and sliding hammers enable an optimal and safe removal, depending on the existing conditions in varying applications.

Technical attributes

#	4021176		<u>m</u>				→		Max. tensile force	Max. tractive force	i	Components
	EAN	mm/ inch	mm/ inch	mm/ inch	mm/ inch	kg	nominal dimension	nominal dimension	kN	t/ US t. sh.	kg/lb	
K-22-A-M	-910180	8 - 40 5/16- 1 9/16	15 - 60 9/16 - 2 3/8	300 11 13/16	250 9 13/16	1	M7	M10	30	3 3.31	4,1 9,041	22-0-10, 22-1, 21-01, 21-1, 21-2, 21-4, 21-5, VM12-10, VM12-7

K-22-A-E 6-PIECE BALL BEARING EXTRACTOR SET WITH COUNTER STAY AND SLIDING HAMMER



The 6-piece ball bearing puller set with counter stay and sliding hammer K-22-A-E is used for extracting flat-mounted bearings, bearing outer rings, and bushings in craftsmanship, workshops, and industry. The segmented design with extra fine gripping edges allows for the secure extraction of flat-mounted parts. The included counter stay or sliding hammer is used in conjunction with the internal extractors depending on whether a sufficient support surface is available.

Benefits

- By storing it in the box, the completeness of the set can be easily overviewed.
- Internal extractors, together with counter stays and sliding hammers, are capable of finding a suitable solution in a wide range of extracting situations
- Counter stays and sliding hammers allow for optimal and safe removal depending on the existing conditions in changing applications.

#	4021176		D						Max. tensile force	Max. Tractive force	i	Components
	EAN	mm/ inch	mm/ inch	mm/ inch	mm/ inch	kg	nominal dimension	nominal dimension	kN	t/ US t. sh.	kg/lb	
K-22-A-E	-140471	5 - 15 3/16 - 9/16	15 - 60 9/16 - 2 3/8	325 12 13/16	200 7 7/8	0.5	M10	M12	30	3 {8328}	2,8 6,174	22-0-05, 22-1, 21-0-E, 21-00-E, 21-01-E, 21-1-E

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K-22-B-E 6-PIECE BALL BEARING EXTRACTOR SET WITH COUNTER STAY AND SLIDING HAMMER



The 6-piece ball bearing puller set with counter stay and sliding hammer K-22-B-E is used to pull out flush-mounted bearings, bearing outer rings, and bushings in craft, workshop, and industry. The segmented design with extra fine gripping edges allows for the safe extraction of flush-mounted parts. The included counter stay or the sliding hammer is used together with the internal extractors, depending on whether a sufficient support surface is available.

Benefits

- By storing it in the box, the completeness of the set can be easily overviewed.
- Internal extractors, together with counter stays and sliding hammers, are capable of finding a suitable solution in a wide range of extracting situations.
- Counter stays and sliding hammers allow for optimal and safe removal depending on the existing conditions in changing applications.

Technical attributes

#	4021176		<u> </u>						Max. tensile force	Max. Tractive force		Components
	EAN	mm/ inch	mm/ inch	mm/ inch	mm/ inch	kg	nominal dimension	nominal dimension	kN	t/ US t. sh.	kg/lb	
K-22-B-E	-039270	12 - 34 1/2- 1 5/16	15 - 60 9/16 - 2 3/8	325 12 13/16	200 7 7/8	0.5	M10	M12	30	3	3,255 7,177	22-0-05, 22-1, 21-1-E, 21-2-E, 21-3-E, 21-4-E

K-22-C-E 9-PIECE BALL BEARING EXTRACTOR SET WITH COUNTER STAY AND SLIDING HAMMER



The 9-piece ball bearing puller set with counter stay and sliding hammer K-22-C-E is used for extracting flush-mounted bearings, outer rings, and bushings in crafts, workshops, and industry. The segmented design with ultra-fine gripping edges allows for the safe extraction of flush-mounted parts. The included counter stay or sliding hammer is used together with the internal extractors, depending on whether sufficient support surface is available.

Benefits

- By storing it in the box, the completeness of the set can be easily overviewed.
- Internal extractors, together with counter stays and sliding hammers, are capable of finding a suitable solution in a wide range of extracting situations.
- Counter stays and sliding hammers allow for optimal and safe removal depending on the existing conditions in changing applications.

#	4021176		<u></u>			1	→		Max. tensile force	Max. tractive force	i	Components
	EAN	mm/ inch	mm/ inch	mm/ inch	mm/ inch	kg	nominal dimension	nominal dimension	kN	t/ US t. sh.	kg/lb	
K-22-C-E	-140402	5 - 34 3/16 - 1 5/16	15 - 60 9/16 - 2 3/8	325 12 13/16	200 7 7/8	0.5	M10	M12	30	3	3,45 7,607	22-0-05, 22-1, 21-0-E, 21-00-E, 21-01-E, 21-1-E, 21-2-E, 21-3-E, 21-4-E



28-A 19-PIECE SLIDING HAMMER SET



The 28-A 19-piece sliding hammer set is used for the contactless extraction of internal bearings, bearing outer rings, and bushings, as well as components with threads (dowel pins, key strips, bolts, etc.) in craft, workshop, and industry. The multi-shell design of the internal extractors, with their extra-large gripping edges, allows for the safe extraction of internal parts. The included sliding hammer is used together with the internal extractors. Additionally, there are thread inserts for extracting parts with concentric threaded holes in the set, which are used together with the sliding hammer.

Benefits

- By storing it in the box, the completeness of the set can be easily overviewed.
- The internal extractors, together with the sliding hammer and threaded inserts, are capable of finding an appropriate solution in a variety of extraction situations.
- The sliding hammer allows for optimal and safe extraction due to its design.

Technical attributes

#	4 021176					-			Components
	EAN	mm/inch	mm/inch	mm/inch	kg	nominal dimension	nominal dimension	kg/lb	
28-A	-507779	5 - 19 3/16-3/4	300 11 13/16	250 9 13/16	1	M3, M4, M5, M6, M8, M10, M12, M14, M16, M18	M7, M10, 15-16G	3,395 7,486	21-00, 21-01, 21-02, 21-1, 21-2, 22-0- 10, GE4-10, GE5-10, GE6-10, GE8-10, GE10-10, GE12-10, VM12-1516, VM12-10, GE3-10, GE14-10, GE16-10, GE18-10, VM12-7

28-B 19-PIECE SLIDING HAMMER SET



The 28-piece sliding hammer set 19 is used for contactless extraction of internal bearings, outer bearing rings, and bushings, as well as components with threads (dowel pins, key stock, bolts, etc.) in crafts, workshops, and industry. The multi-shell design of the internal extractors with their extra-large gripping edges allows for the secure removal of internal parts. The included sliding hammer is used together with the internal extractors. Additionally, the set includes thread adapters for extracting parts with concentric threaded holes, which are used in conjunction with the sliding hammer.

Benefits

- By storing it in the box, the completeness of the set can be easily overviewed.
- The internal extractors, together with the sliding hammer and threaded inserts, are capable of finding an appropriate solution in a variety of extraction situations.
- The sliding hammer allows for optimal and safe extraction due to its design.

#	4021176								i	Components
	EAN	mm/inch	mm/inch	mm/inch	kg	nominal dimension	nominal dimension	nominal dimension	kg/lb	
28-B	-507786	12 - 38 1/2-1 1/2	370 14 9/16	250 9 13/16	1.7	M8, M10, M12, M14, M16, M18, M20, M22, M24	15-16G, M7, M18x1,5, M10	G1/2	6,145 13,550	22-0-17, 21-1, 21-2, 21-3, 21-4, 21-5, GE14-1815, GE16-1815, GE18-1815, GE20-1815, GE22-1815, GE24-1815, GA7-10, GA12-1815, GE8-1815, GE10-1815, GE12-1815

28-C 22-PIECE SLIDING HAMMER AND COUNTER STAY SET



The 28-C 22-piece sliding hammer set is used for non-contact extraction of internal bearings, bearing outer rings, and bushings as well as components with threads (dowel pins, key steel, bolts, etc.) in crafts, workshops, and industry. The multi-shell design of the internal extractors with their extra-large gripping edges allows for secure extraction of internal parts. The included counter stay or sliding hammer will be used together with the internal extractors, depending on whether a sufficient support surface is available. Additionally, the set includes thread inserts for extracting parts with concentric threaded holes, which are used in conjunction with the sliding hammer.

Benefits

- By storing it in the box, the completeness of the set can be easily overviewed.
- The internal extractors, along with counter stays, sliding hammers, and thread inserts, are capable of finding a suitable solution in a variety of puller situations.
- Counter stays and sliding hammers allow for optimal and safe removal depending on the existing conditions in changing applications.

Technical attributes

#	4021176		D				-			Components
	EAN	mm/inch	mm/inch	mm/inch	mm/inch	kg	nominal dimension	nominal dimension	kg/lb	
28-C	-466762	12 - 48 1/2-1 7/8	0 - 100 0 - 3 15/16	300 11 13/16	250 9 13/16	1	M3, M4, M5, M6, M8, M10, M12, M14, M16, M18	M7, M10, 15-16G	11,995 26,449	21-1, 21-2, 21-3, 21-4, 21-5, 21-6, 22-1, 22-2, GE10-10, GE12-10, GE14-10, GE16-10, GE18-10, GE3-10, GE4-10, GE5-10, GE6-10, GE8-10, 22-0-10, VM12-10

28-D 24-PIECE SLIDING HAMMER AND COUNTERSTAY SET



The 24-piece sliding hammer set 28-D is used for removing internal bearings, outer bearing rings, and bushings as well as components with threads (dowel pins, feather keys, bolts, etc.) in crafts, workshops, and industry without contact. The multi-shell design of the internal extractors with their extra large gripping edges allows for safe extraction of internal parts. The included counter stay or the sliding hammer are used together with the internal extractors depending on whether there is a sufficient support surface. Additionally, there are thread inserts for extracting parts with concentric threaded holes in the set, which are used together with the sliding hammer.

Benefits

- By storing it in the box, the completeness of the set can be easily overviewed.
- The internal extractors, along with counter stays, sliding hammers, and thread inserts, are capable of finding a suitable solution in various extraction situations.
- Counter stays and sliding hammers allow for optimal and safe removal depending on the existing conditions in changing applications.

#	4021176		D				—			Components
	EAN	mm/inch	mm/inch	mm/inch	mm/inch	kg	nominal dimension	nominal dimension	kg/lb	
28-D	-466779	12 - 70 1/2-2 3/4	0 - 100 0 - 3 15/16	300 11 13/16	250 9 13/16	1	M3, M4, M5, M6, M8, M10, M12, M14, M16, M18	M7, M10, 15-16G	14,57 32,127	VM12-7, 21-1, 21-2, 21-3, 21-4, 21-5, 21-6, 21-7, 21-8, 22-1, 22-2, GE10-10, GE12-10, GE14-10, GE16-10, GE18-10, GE3-10, GE4-10, GE5-10, GE6-10



SERIES 21-V EXTENSIONS FOR INTERNAL EXTRACTORS



The extensions for the internal extractors of series 21 are used for loosening and pulling out deeply seated bearings, bearing outer rings, and bushes in crafts, workshops, and industry. The extensions available in various lengths from 40 to 280 mm allow for a variable application of the internal extractors even in extreme cases.

Benefits

• Various extension sizes for different applications

Technical attributes

#	4021176	L ←──→		Ø	SW →	
	EAN	mm/inch	nominal dimension	mm/inch	mm/inch	kg/lb
21-V-040	-909214	40 1 9/16	M7	14 9/16	11 7/16	0,08 0,176
21-V-060	-909221	60 2 3/8	M7	14 9/16	11 7/16	0,11 0,243
21-V-080	-909238	80 3 1/8	M7	14 9/16	11 7/16	0,14 0,309
21-V-310	-914386	100 3 15/16	M10	20 13/16	17 11/16	0,295 0,650

SERIES 21-V-0 INTERNAL EXTRACTOR EXTENSIONS



The set of extensions for internal extractors of series 21 is used for loosening and extracting deeply seated bearings, bearing outer rings, and bushings in craft, workshop, and industry. The extensions, available in various lengths, allow for versatile use of the internal extractors even in extreme cases. The set contains extensions in four different sizes from 40 - 280 mm for compatibility in every case.

Benefits

- Different extension sizes for various applications
- Practical assembly for universal use

#	 	L		Ø	SW ↓		Components
	EAN	mm/inch	nominal dimension	mm/inch	mm/inch	kg/lb	
21-V-0	-909207	40; 60; 80; 100 1 9/16;2 3/8;3 1/8;3 15/16	M7, M10	14, 20 9/16, 13/16	11, 17 7/16, 11/16	1,35 2,977	21-V-040, 21-V-060, 21-V-080, 21-V-310

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SERIES 21-V-E ACCESSORIES FOR INTERNAL EXTRACTION



The extension for internal extractors of series 21-V-E is used for loosening and pulling deep-seated bearings, bearing outer rings, and bushes in craft, workshop, and industry. The extension allows the spreading of the internal extractor in tight or deep-seated installation situations that would otherwise be inaccessible.

Benefits

 Extension allows access to deep-seated bearings, bearing outer rings, and sockets.

Technical attributes

#	4021176	L ← →		Ø	SW ⊷	
	EAN	mm/inch	nominal dimension	mm/inch	mm/inch	kg/lb
21-4-E-180 NEW	-010866	180 7 1/16	M10	34 1 5/16	11/16	0,25 0,551

SERIES 818-021 INTERNAL EXTRACTOR



The internal extractors of the series 818-021 are used together with a puller device with hydraulic spindle of the series 818-0 for extracting internal bearings, outer bearing rings, and bushings in crafts, workshops, and industry. The model series is based on a modular system and can therefore be expanded in a variety of ways. The internal extractors with tension spindle, spindle nut, U-washer, and threaded sleeve with smooth bore are fully operational in combination with the puller device and can be used in many ways.

Benefits

- Other pullers from the 800 series have the same hydraulic spindle and do not require additional accessories.
- For the 800 series, there are numerous easily exchangeable and combinable individual parts.

#	4021176		######################################	Max. tensile force	Max. tractive force	SW 		Included in the set
	EAN	mm/inch	mm/inch	kN	t/US t. sh.	mm/inch	kg/lb	
818-021	-757969	30 - 180 1 3/16 - 7 1/16	135 5 5/16	100	10 11.02	22 7/8	2,8 6,174	818-215

SERIES Y-21-E INTERNAL EXTRACTOR



The internal extractors of the Y-21 series are used for extracting internal bearings, bearing outer rings, and bushings in crafts, workshops, and industry. The series 21 impresses with its compatibility and variety of applications. Depending on the application case, there are several variants of the internal extractors. The internal extractors of the Y-21-E series require the puller devices of the Y-180 series.

Benefits

 The hydraulic puller device needed in combination with the internal extractor allows easy and controlled removal of particularly stubborn parts.

Technical attributes

#	4021176		## ## mm		Max. tensile force	Max. tractive force	i	Included in the set
	EAN	mm/inch	mm/inch	nominal dimension	kN	t/US t. sh.	kg/lb	
Y-221-E	-040856	30 - 180 1 3/16 - 7 1/16	135 5 5/16	1"-8 UNC	100	10 11.02	2,8 6,174	Y28-200, Y28-218
Y-321-E	-042836	75 - 230 2 15/16 - 9 1/16	140 5 1/2	1 1/4 - 7" UNC	220	22 24.25	6,5 14,333	Y38-300, Y38-318
Y-521-E	-044656	75 - 230 2 15/16 - 9 1/16	140 5 1/2	1 5/8" - 51 2UNS	275	27.5 30.31	7,3 16,097	Y58-518, Y58-500

SERIES 818-0 HYDRAULIC PULLER



The extractor device with hydraulic spindle is used for universal applications with the pullers of series 818 in crafts, workshops, and industry. The model series is built on a modular system and is therefore versatile and expandable. This extractor device is the fundamental element of a system that allows for universal application possibilities in combination with various accessories, such as internal extractors, puller jaws, or separators.

Benefits

- Pullers of series 800 use the same hydraulic spindle and require no additional accessories.
- For the series 800, there are numerous easily interchangeable and frequently combinable individual parts and accessories.
- The hydraulics enable high pull-out performance with low manual effort
- The axial working piston does not rotate with the hydraulic spindle.

#	 	<u> </u>	ĦŢ	P	Max. tensile force	Max. tractive force		Included in the set
	EAN	mm/inch	mm/inch	Nm/ft lb	kN	t/US t. sh.	kg/lb	
818-0	-173196	85 - 270 3 3/8 - 10 5/8	280 7 1/16	40 29.50	100	10 11.02	7,8 17,199	818-100, 818-150, 818-215

SERIES 818 BOLT EXTENSIONS



The pull bolt extension serves to extend the pull bolts of a puller device during external extraction.

Technical attributes

#	 4021176	L		SW 	i
	EAN	mm/inch	nominal dimension	mm/inch	kg/lb
818-250	-173356	250 9 13/16	5/8"-18 UNF	22 7/8	0,79 1,742
818-280	-173431	250 9 13/16	5/8"-18 UNF	22 7/8	1,1 2,426

SERIES 818-P BOLT EXTENSIONS

The pull rod extensions are used to extend the pull rods of a puller when separating.



#	 	<u>L</u>		SW 	i
	EAN	mm/inch	nominal dimension	mm/inch	kg/lb
818-250-P	-385391	250 9 13/16	5/8"-18 UNF	22 7/8	1,56 3,440
818-280-P	-385544	250 9 13/16	5/8"-18 UNF	22 7/8	2,16 4.763



SERIES YX8-X18 13-PIECE HYDRAULIC PULLER SET



The 13-piece hydraulic puller sets are used for separating and internally extracting particularly large and stuck bearings, gears, discs, etc. in industry and commercial vehicles. The set does not require any additional accessories for application. In addition to a hollow piston cylinder with hand pump, pressure gauge, and hose, the set includes separating knives, internal extractors, counter stays, and extensions to ensure a universal solution for internal extraction and separation.

Benefits

- · Application-oriented assembly for universal use
- Through the storage in the metal box, the completeness of the set can be easily overviewed.

Technical attributes

#	 	†	 			Ø	Max. tensile force	Max. tractive force	i	Components
	EAN	mm/inch	mm/inch	mm/inch	mm/inch	bar	kN	t/US t. sh.	kg/lb	
Y28-218	-036651	135 - 300 5 5/16 - 11 13/16	1.000 39 3/8	30 - 180 1 3/16 - 7 1/16	25 - 155 1 - 6 1/8	394	150	15 16.53	60 132,300	Y-221-E, YHP-325, Y-215-3, YDB-27E, YRH-202, Y20-180, Y218-06-P, Y218-08-P, Y218-31-P, Y218-33, Y218-10, Y218-11
Y38-318	-037641	180 - 420 7 1/16 - 16 9/16	1.200 47 1/4	75 - 230 2 15/16 - 9 1/16	30 - 250 1 3/16 - 9 13/16	514	250	25 27.56	115 253,575	Y-321-E, YHP-325, Y-315-5, YDB-33E, YRH-302, Y30-180, Y318-36-P, Y318-33, Y318-38-P, Y318-41-P, Y318-10, Y318-11
Y58-518	-038891	235 - 540 9 1/4 - 21 1/4	1.500 59 1/16	75 - 230 2 15/16 - 9 1/16	75 - 330 2 15/16 - 12 1	348	350	35 38.58	220 485,100	Y-521-E, YHP-325, Y-515-6, YDB-55E, YRH-603, Y50-180, Y518-08-P, Y518- 31-P, Y518-33, Y518-10, Y518-11

SERIES Y-180 HYDRAULIC PULL/ PRESS EXTRACTOR WITH HYDRAULIC HOLLOW PISTON CYLINDER



The Y-180 series hydraulic puller is used for removing particularly large and stubborn bearings, gears, disks, etc., by using separating knives and internal extractors in crafts, workshops, and industry. The Y-180 series is used together with the separating device Y-15 or the internal extractor Y-21-E and can be used in two different ways.

Benefits

- · Low effort for high pulling performance
- The required internal extractor or separator for the application allows, together with the hydraulic puller, the easy and controlled removal of particularly stubborn parts.

#	######################################	<u> </u>	†††	Max. tensile force	Max. tractive force	Ø		Included in the set
	EAN	mm/inch	mm/inch	kN	t/US t. sh.	bar	kg/lb	
Y28-180	-036408	135 - 300 5 5/16 - 11 13/16	470 18 1/2	150	15 16.53	700	20,81 45,886	Y28-200, Y28-218
Y38-180	-037498	180 - 420 7 1/16 - 16 9/16	520 20 1/2	250	25 27.56	700	37,68 83,084	Y38-318, Y38-300
Y58-180	-038488	235 - 540 9 1/4 - 21 1/4	660 25 63/64	350	35 38.58	700	84 185,220	Y58-518, Y58-500

SERIES Y-18-E ACCESSORIES FOR HYDRAULIC PULLERS

The accessories for hydraulic pullers are used for the application with the pullers from the KUKKO hydraulic program in craftsmanship, industry, and workshop. The crossbars, fastening materials, tension bolts, support nuts, connectors for tension bolts, and quick adjustment nuts are designed for the pullers of the series Y20, Y28, Y30, Y38, Y50, and Y58.



Y218-33

Y318-33

Y518-33

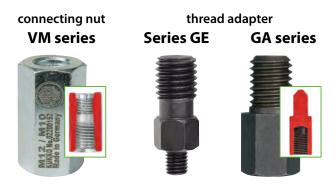
Pair of tension bolts
Y218-06-P
Y218-07-P
Y218-08-P
Y218-12-P
Y318-36-P
Y318-37-P
Y318-38-P
Y518-07-P
Y518-08-P

Fastening material for 1 pair of tie rods Y218-04 Y318-04 Pair of support nuts for tension bolts Y218-09-P Y318-39-P Y518-09-P Pair of connectors for tension bolts Y218-31-P Y318-41-P Y518-31-P

#		Max. tractive force	i
	EAN	t/US t. sh.	kg/lb
Y218-03	-039706	15 16.53	4,82 10,628
Y218-04	-529818	15	1,03
		16.53	2,271
Y218-06-P	-056420	15 16 52	2,3
Y218-07-P	-056437	16.53 15	5,072 3,685
.2.0 07 1	050 157	16.53	8,125
Y218-08-P	-056444	15	3,685
		16.53	8,125
Y218-09-P	-218095	15 16.53	0,265 0,584
Y218-12-P	-097157	15	1,34
	37,137	16.53	2,955
Y218-31-P	-218316	15	0,32
		16.53	0,706
Y218-33	-040771	15 16.53	1,105 2,437
Y318-03	-041686	25	11,4
		27.56	25,137
Y318-04	-318047	25	6,92
w		27.56	15,259
Y318-33	-042188	25 27.56	1,854 4,088
Y318-36-P	-056338	25	4,28
		27.56	9,437
Y318-37-P	-305863	25	6,93
V	055245	27.56	15,281
Y318-38-P	-056345	25 27.56	11,805 26,030
Y318-39-P	-318399	25	0,82
		27.56	1,808
Y318-41-P	-318412	25	0,6
Y518-03	-043826	27.56 35	1,323
1516-05	-043820	38.58	30,91 68,157
Y518-04	-529825		0
		0.00	0,000
Y518-07-P	-056468	35	15,86
Y518-08-P	-056475	38.58 35	34,971 21,28
1310-00-1	-030473	38.58	46,922
Y518-09-P	-518096	35	1,336
		38.58	2,946
Y518-31-P	-518317	35	1,2
Y518-33	-044571	38.58 35	2,646 2,66
1310-33	-04437 I	35 38.58	2,00 5,865
			2,555



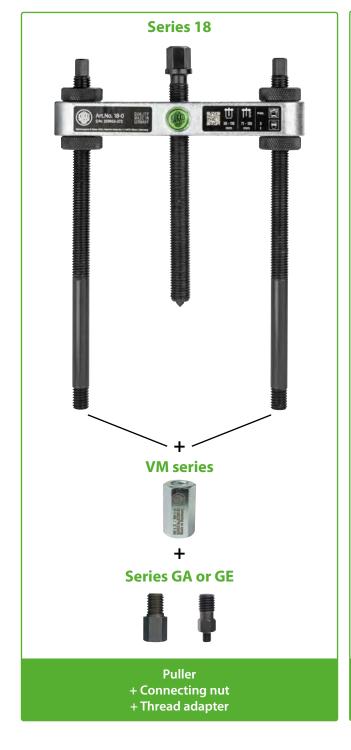
The thread adapters of the series GA (male/external thread) and GE (female/internal thread) are suitable for extracting components with concentric threaded holes and can be connected to a puller, a counter stay, or a sliding hammer. Depending on the requirements, the adapters can expand or reduce the thread diameter. The connecting nuts of the series VM allow the combination of two external threads.



Benefits

- The thread adapter allows for both an increase and a decrease in the thread diameter.
- The connecting nut serves as a coupling between the spindle and the sliding hammer rod and adapter.
- Assembling the thread adapter and connecting nut offers numerous combination possibilities.

COMBINATION POSSIBILITIES







THREAD ADJUSTMENT

The items GA-3 to GA12-10 are equipped with a movable threaded pin for unscrewing. The adapters can therefore be used as both external and internal threads. The length of the threaded pins is freely adjustable via an internal hexagon. Due to the modular design of the adapters with a movable pin, they can be cost-effectively replaced with a standard part in case of breakage.



APPLICATION EXAMPLES



Removing a ball bearing using a sliding hammer, \r\nconnecting nut and thread adapter



Removing a dowel pin using a sliding hammer and thread adapter

TIP:

If a component cannot be grabbed with a puller, the thread adapters are useful at this point. Simply drill a hole in the component and cut a thread. Then screw in the adapter and pull it out with a sliding hammer or a counter stay.

SERIES GA THREAD ADAPTER

Thread adapters are spare parts that allow flexible connections between different threads, thereby providing more flexible application possibilities.



#	4021176	i	Committee
	EAN	kg/lb	
GA7-10	-221002	0,2 0,441	28-B, 224-676, 26-B
GA10-1516	-225161	0,25 0,551	K-26-B, 22-0-10, 26-B
GA12-1/2	-181771	0,055 0,121	KS-22-01-UNC, K-22-01-UNC
5A12-1/4	-181788	0 0,000	KS-22-01-UNC, K-22-01-UNC
GA12-3/8	-181795	0 0,000	KS-22-01-UNC, K-22-01-UNC
iA12-3	-223112	0,45 0,992	27-A, KS-22-01
iA12-4	-223129	0,45 0,992	27-A, KS-22-01
iA12-5/16	-181801	0 0,000	KS-22-01-UNC, K-22-01-UNC
iA12-5	-223136	0,5 1,103	27-A, KS-22-01
GA12-6	-223143	0,5 1,103	27-A, KS-22-01, KS-22-02
GA12-7/16	-181818	0 0,000	KS-22-01-UNC, K-22-01-UNC
GA12-8	-223150	0,5 1,103	27-A, KS-22-01
iA12-10	-223167	0,55 1,213	27-A, KS-22-01, KS-22-02
iA12-34	-774430	0,42 0,926	21-90
iA12-81	-231056	0,05 0,110	KS-22-02
iA12-101	-221125	0,055 0,121	KS-22-02
5A12-121	-221132	0,06 0,132	KS-22-02
iA12-1515	-221149	0,065 0,143	KS-22-02
GA12-1815	-507588	0,155 0,342	28-B, 223-G
6A1415-12	-220678	0,22 0,485	K-486-1-22
iA1516-12	-300219	0,35 0,772	26-B
		V _I , I L	2



SERIES GE THREAD ADAPTER



With the threaded inserts, internal threads for screw connections are created. The inserts in various sizes expand the application in craft, industry, and workshop.

#	 		THE THE THE THE THE THE THE THE THE THE
	EAN	kg/lb	
E3-10	-183386	0,2 0,441	28-A, 223, 28-C, 28-D, 223-K, 18-003A
E4-10	-184383	0,2 0,441	28-A, 22-1-AS, 223, 28-C, 28-D, 223-K, 18-004A, 18-0-AS, 18-003A
E5-5	-018541	0,02 0,044	K-222-1/7, 222-S
GE5-10	-185380	0,2	28-A, 22-1-AS, 223, 28-C, 28-D, 223-K, 18-005A, 18-0-AS
GE6-10	-186387	0,441 0,25	28-A, 22-1-AS, 223, 28-C, 28-D, 223-K, 18-006A, 18-0-AS
GE8-10	-188428	0,551 0,2	28-A, 22-1-AS, 223, 28-C, 223-K, 18-008A, 18-0-AS
E8-1415	-188435	0,441 0,04	18-208A, 18-2-AS
E8-1815	-188442	0,088 0,95	28-B, 223-G
E10-10	-180460	2,095 0,35	22-1-AS, 28-A, 223, 28-C, 28-D, 223-K, 18-0-AS, 18-010A
E10-1415	-101458	0,772 0,05	18-2-AS, 18-210A
E10-1815	-181443	0,110 0,15	28-B, 223-G
E12-10	-182488	0,331 0,4	28-A, 22-1-AS, 223, 28-C, 28-D, 223-K, 18-012A, 18-0-AS
E12-1415	-121456	0,882 0,06	18-212A, 18-2-AS
E12-1815	-182440	0,132 0,12	28-B, 223-G
		0,265	
E14-10	-184468	0,06 0,132	28-A, 223, 28-C, 28-D, 223-K
E14-1415	-184482	0,07 0,154	18-214A, 18-2-AS
E14-1815	-184444	0,11 0,243	28-B, 223-G, 18-3-AS, 18-314A
E16-10	-184857	0,25 0,551	28-A, 223, 28-C, 28-D, 223-K, 18-016A
E16-1415	-186509	0,08 0,176	18-216A, 18-2-AS
E16-1815	-186462	0,14 0,309	28-B, 223-G, 18-316A, 18-3-AS
E18-10	-188480	0,07 0,154	28-A, 223, 28-C, 28-D, 223-K
E18-1415	-180521	0,1	18-218A, 18-2-AS
E18-1815	-180637	0,221 0,14	28-B, 223-G, 18-318A, 18-3-AS
E20-1815	-182068	0,309 0,16	28-B, 223-G, 18-320A, 18-3-AS
GE22-1815	-182655	0,353 0,19	28-B, 223-G, 18-322A, 18-3-AS
iE24-1815	-182419	0,419 0,21	28-B, 223-G, 18-324A, 18-3-AS
iE81-1615	-181559	0,463 0,065	225
E101-1615	-181597	0,143 0,07	225
E142-1615	-182631	0,154 0,085	225
E162-1615	-180675	0,187 0,085	225
E1415-1615	-185632	0,187	225
		0,1 0,221	
GE1615-1615	-185670	0,1 0,221	225
GE2015-1615	-181573	0,15 0,331	225
GE2215-1815 NEW	-181214	0,28 0,617	WT-031

SERIES 18-A THREAD ADAPTER (PAIR)



The thread adapters of series 18-A are used together with the pullers of series 18 for removing and pulling components with threads, such as dowel pins, keyways, or bolts, in crafts, industry, and workshops. The separation-puller process is capable of first gently separating those parts before they can be pulled out from the outside.

Benefits

• The thread adapters allow for the careful and secure removal of parts with threaded holes.

	Tibutes						
#	4021176	L		-	■■ ■ ‡		i
	EAN	mm/inch	nominal dimension	nominal dimension	mm/inch	mm/inch	kg/lb
18-003A	-788406	52 2 1/16	M10	M3	12 1/2	14 9/16	0,085 0,187
18-004A	-337383	52 2 1/16	M10	M4	12 1/2	14 9/16	0,85 1,874
18-005A	-337468	55 2 3/16	M10	M5	15 9/16	14 9/16	0,4 0,882
18-006A	-337536	58 2 5/16	M10	M6	18 11/16	14 9/16	0,9 1,985
18-008A	-337611	60 2 3/8	M10	M8	20 13/16	14 9/16	0,095 0,209
18-010A	-337796	65 2 9/16	M10	M10	25 1	14 9/16	0,105 0,232
18-012A	-337871	68 2 11/16	M10	M12	28 1 1/8	14 9/16	0,125 0,276
18-016A	-788574	69 2 11/16	M10	M16	25 1	14 9/16	0,175 0,386
18-208A	-337956	70 2 3/4	M14x1,5	M8	20 13/16	22 7/8	0,255 0,562
18-210A	-338113	75 2 15/16	M14x1,5	M10	25 1	22 7/8	0,27 0,595
18-212A	-338298	78 3 1/16	M14x1,5	M12	28 1 1/8	22 7/8	0,285 0,628
18-214A	-338373	79 3 1/8	M14x1,5	M14	29 1 1/8	22 7/8	0,3 0,662
18-216A	-338458	82 3 1/4	M14x1,5	M16	32 1 1/4	22 7/8	0,33 0,728
18-218A	-338526	84 3 5/16	M14x1,5	M18	34 1 5/16	22 7/8	0,38 0,838
18-314A	-338601	94 3 11/16	M18x1,5	M14	29 1 1/8	27 1 1/16	0,545 1,202
18-316A	-338786	97 3 13/16	M18x1,5	M16	32 1 1/4	27 1 1/16	0,575 1,268
18-318A	-338861	99 3 7/8	M18x1,5	M18x1,5	34 1 5/16	27 1 1/16	0,6 1,323
18-320A	-338946	100 3 15/16	M18x1,5	M20	35 1 3/8	27 1 1/16	0,635 1,400
18-322A	-339028	102 4 1/64	M18x1,5	M22	37 1 7/16	27 1 1/16	0,68 1,499
18-324A	-339103	102 4 1/64	M18x1,5	M24	37 1 7/16	27 1 1/16	0,71 1,566



SERIES 18-AS THREAD ADAPTER SETS



The thread adapter set of model series 18-AS is used together with the pullers of model series 18 for removing and pulling components with threads, such as dowel pins, keyways or bolts, in crafts, industry and workshops. The separation-pulling process is capable of gently separating those parts first before they can be externally pulled off.

Benefits

- The thread adapters enable the careful and safe removal of parts with threaded holes.
- Universal assembly for optimal practical application

#	4 021176		-		Components
	EAN	nominal dimension	nominal dimension	kg/lb	
18-0-AS	-337048	M10	M4-M5-M6-M8- M10-M12	0,375 0,827	18-003A, 18-004A, 18-005A, 18-006A, 18-008A, 18-010A, 18-012A, 18-016A
18-2-AS	-337123	M14x1,5	M8-M10-M12- M14-M16-M18	0,98 2,161	18-208A, 18-210A, 18-212A, 18-214A, 18-216A, 18-218A
18-3-AS	-337208	M18x1,5	M14-M16-M18- M20-M22-M24	2,32 5,116	18-314A, 18-316A, 18-318A, 18-320A, 18-322A, 18-324A

SERIES VM CONNECTING NUT FOR THREAD ADAPTERS



The connecting nuts can be used as spacers or as a connecting piece for threaded rods. They are available in both connecting and reducing versions

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#	 	i	TO THE PARTY OF TH
	EAN	kg/lb	
VM10-10	-529498	0,025 0,055	18-0-AS, 18-003A, 18-004A, 18-005A, 18-006A, 18-008A, 18-010A, 18-012A, 18-016A
VM10-12	-529504	0,235 0,518	-
VM12-7	-529559	0,7 1,544	28-A, 28-D, 223-K, KS-22-01, KS-22-01-UNC, KS-22-02, K-22-A-M
VM12-10	-529528	0,6 1,323	28-A, 28-C, 223, 223-K, KS-22-01, KS-22-01-UNC, KS-22-02, K-22-A-M
VM12-1516	-529542	0,1 0,221	28-A, K-26-B, 22-0-10, 223-K, KS-22-01, KS-22-01-UNC, KS-22-02
VM14-12	-529566	0,25 0,551	-
VM112-12	-529511	0,205 0,452	21-89
VM1415-1415	-529573	0,085 0,187	18-2-AS, 18-208A, 18-210A, 18-212A, 18-214A, 18-216A, 18-218A
VM1615-12	-161513	0,3 0,662	26-B
VM1815-58	-529641	0,6 1,323	K-226-4/12, 226-4/11
VM1815-1815	-529634	0,155 0,342	18-3-AS, 18-314A, 18-316A, 18-318A, 18-320A, 18-322A, 18-324A
VM2015-58	-529665	0,575 1,268	K-226-4/12, 226-4/11
VM2215-58	-529672	0,555 1,224	K-226-4/12, WT-031, 226-4/11



SERIES 22-1-AS SPINDLE INSERT SET



The thread insert set for sliding hammer or counter stays of series 22 is used to pull out parts with central threaded holes in crafts, industry, and workshops. The set includes six different threads for various situations and sizes.

Benefits

• The standardized size of the spindle inserts allows for flexible use with various sliding hammers and counter stays.

Technical attributes

#	4 021176	l ←		—	i	Components
	EAN	mm/inch	nominal dimension	nominal dimension	kg/lb	
22-1-AS	-339288	33 - 49 1 5/16-1 15/16	M10	M4, M5, M6, M8, M10, M12	0,18 0,397	18-004A, 18-005A, 18-006A, 18-008A, 18-010A, 18-012A

K-22-01-UNC 12-PIECE SLIDING HAMMER SET IN CASE



The 12-piece sliding hammer set in the case K-22-01-UNC is used for pulling parts with threaded holes (dowel pins, keys, etc.) with American thread sizes. The threads included in the set can be screwed in using the corresponding hex key also included, to effectively work with American thread dimensions. The accompanying sliding hammer is used together with internal extractors.

Benefits

- By storing it in the box, the completeness of the set can be easily overviewed.
- The sliding hammer replacement has been specifically developed for American thread standards.
- The sliding hammer can be used not only in conjunction with UNC threads but also generally for the internal extraction of internal bearings.

#	4021176				—	i	Components
	EAN	mm/inch	mm/inch	kg	nominal dimension	kg/lb	
K-22-01-UNC	-039614	300 11 13/16	250 9 13/16	1	1/4"- 20 UNC, 5/16"-18 UNC, 3/8"-16 UNC, 7/16"- 14 UNC, 1/2"-13 UNC	2,98 6,571	22-0-10, G-22, 238-318, 238-397, 238-476, 238- 556, 238-635, GA12-1/4, GA12-5/16, GA12-3/8, GA12-7/16, GA12-1/2

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KS-22-01 10-PIECE SLIDING HAMMER SET IN CASE



The 10-piece sliding hammer set in the case KS-22-01 is used for pulling bushings as well as components with threads (dowel pins, key profiles, bolts, etc.) in crafts, industry, and workshops. The use of a sliding hammer is particularly recommended when there is no support surface available or when this is too sensitive. The ergonomically shaped, solid sliding piece allows the applied force to be optimally transmitted and a strong shock effect to be achieved. Additionally, it ensures contactless and gent-le extraction. The thread adapters included in this set can be used for both internal and external threads.

Benefits

- By storing it in the case, the completeness of the set can be easily surveyed
- With the help of the dimensions laser-engraved on the thread adapters, the thread can be uniquely identified.
- The included thread adapters can be used for various thread types and sizes.

Technical attributes

#	4021176				—			Components
	EAN	mm/inch	mm/inch	kg	nominal dimension	nominal dimension	kg/lb	
KS-22-01	-924569	300 11 13/16	250 9 13/16	1	M3, M4, M5, M6, M8, M10	M7, M10, 15-16G	2,12 4,675	22-0-10, GA12-3, GA12-4, GA12-5, GA12-6, GA12- 8, GA12-10, VM12-1516, VM12-10, VM12-7

KS-22-02 10-PIECE SLIDING HAMMER SET IN CASE



The 10-piece sliding hammer set in the case KS-22-02 is used for pulling plugs and components with threads (dowel pins, key stock, bolts, etc.) in crafts, industry, and workshops. The use of a sliding hammer is particularly advisable when no support surface is available or when it is too sensitive. The ergonomically shaped, solid sliding piece allows the applied force to be optimally transmitted, achieving a strong shock effect. It also ensures contact-free and gentle pulling out. The thread adapters contained in this set can be used for both internal and external threads.

Benefits

- By storing it in the case, the completeness of the set can be easily surveyed
- With the help of the dimensions laser-engraved on the thread adapters, the thread can be uniquely identified.
- The included thread adapters can be used for various thread types and sizes.

#	4021176				-		i	Components
	EAN	mm/inch	mm/inch	kg	nominal dimension	nominal dimension	kg/lb	
KS-22-02	-951121	300 11 13/16	250 9 13/16	1	M6, M8x1, M10, M10x1, M12x1, M15x1,5	M7, M10, 15-16G	2 4,410	22-0-10, GA12-6, GA12-10, GA12-81, GA12-101, GA12- 121, GA12-1515, VM12-1516, VM12-10, VM12-7



KS-22-01-UNC 9-PIECE SLIDING HAMMER SET IN CASE



The 9-piece sliding hammer set in the case KS-22-01-UNC is used for pulling sockets and components with threads (dowel pins, keyways, bolts, etc.) in crafts, industry, and workshops. The use of a sliding hammer is particularly advisable when there is no support surface available or when it is too delicate. The ergonomically shaped, solid sliding piece allows for optimal force transfer and achieves a strong shock effect. This also ensures a non-contact and gentle extraction. The thread adapters included in this set can be used for both internal and external threads.

Benefits

- By storing it in the case, the completeness of the set can be easily surveyed
- With the help of the dimensions laser-engraved on the thread adapters, the thread can be uniquely identified. The included thread adapters can be used for various thread types and sizes.

Technical attributes

#	4021176						Components
	EAN	mm/inch	mm/inch	kg	nominal dimension	kg/lb	
K-22-01-UNC	-039614	300 11 13/16	250 9 13/16	1	1/4"- 20 UNC, 5/16"-18 UNC, 3/8"-16 UNC, 7/16"- 14 UNC, 1/2"-13 UNC	2,98 6,571	22-0-10, G-22, 238-318, 238-397, 238-476, 238-556, 238-635, GA12- 1/4, GA12-5/16, GA12-3/8, GA12- 7/16, GA12-1/2

223-K 14-PIECE PASS PIN AND DRIVE PIN REMOVER SET



The 14-piece puller and extractor set is used for extracting bushings as well as components with threads (dowel pins, keyways, bolts, etc.) in crafts, industry, and workshops. In addition to a sliding hammer device, various thread inserts are included to extract parts in different sizes.

Benefits

- By storing it in the box, the completeness of the set can be easily overviewed.
- With the help of the dimensions laser-engraved on the thread adapters, the thread can be uniquely identified.

#	4 021176				—		Max. tractive force	i	Components
	EAN	mm/inch	mm/inch	kg	nominal dimension	nominal dimension	t/US t. sh.	kg/lb	
223-K	-784859	300 11 13/16	250 9 13/16	1	M3, M4, M5, M6, M8, M10, M12, M14, M16, M18	M7, M10, 15-16G	{8328}	2,94 6,483	22-0-10, GE4-10, GE5-10, GE6-10, GE8-10, GE10-10, GE12-10, VM12-1516, VM12-10, GE3-10, GE14-10, GE16-10, GE18-10, VM12-7

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223-G 14-PIECE PULLER AND EXTRACTOR SET



The 14-piece puller and extractor set is used for extracting bushings as well as components with threads (dowel pins, flat keys, bolts, etc.) in craft, industry, and workshops. In addition to a sliding hammer device, various thread inserts are included to extract parts in different sizes.

Benefits

- By storing it in the box, the completeness of the set can be easily overviewed.
- With the help of the dimensions laser-engraved on the thread adapters, the thread can be uniquely identified.

#	4 021176				—	↓		Max. Tractive force	i	Components
	EAN	mm/ inch	mm/ inch	kg	nominal dimension	nominal dimension	nominal dimension	t/US t. sh.	kg/lb	
223-G	-984181	370 14 9/16	250 9 13/16	1.7	M8, M10, M12, M14, M16, M18, M20, M22, M24	15-16G, M10, M18x1,5	G1/2	{8328}	5,85 12,899	22-0-17, GE14-1815, GE16-1815, GE18-1815, GE20-1815, GE22-1815, GE24-1815, GA12-1815, GE8-1815, GE10-1815, GE12-1815



SERIES G-22 3-ARM GRIP FOR SLIDING HAMMER



The 3-component handle as an accessory for sliding hammers of series 22 serves better guidance during the pulling process when using sliding hammers in crafts, industry, and workshops. The ergonomic handle design ensures good haptics and maximum force transmission even with wet and oily hands.

Benefits

- The risk of injury is reduced by using a handle.
- Ergonomically shaped grip

Technical attributes

#	 	•		i
	EAN		mm/inch	kg/lb
G-22	-018442	M12	155 6 1/8	0,167 0.368

SERIES 22-0-2-100 3 KG WEIGHT EXTENSION FOR 22-0-50



The additional weights of the series 22-0-2-100 are used together with sliding hammers of the series 22-0-50 in crafts, industry, and workshops. Each additional weight module increases the impact weight of the sliding hammer by 3 kg, allowing even particularly stuck parts to be safely and gently pulled off.

Benefits

 Multiple weight extensions can be used together with a single sliding hammer, allowing the impact weight of the sliding hammer to be individually adjusted upwards.

#		L ←—→	Ø		i
	EAN	mm/inch	mm/inch		kg/lb
22-0-2-100	-111211	66 2 5/8	95 3 3/4	M10	3,225 7,111

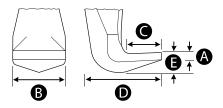
SERIES 229-01 HOOK WITH TOGGLE JOINT



The specially profiled hook with toggle joint is used together with the sliding hammer 22-0-50 for releasing the control arm from the ball joint clamping and for work on the body in automotive and industrial applications.

Benefits

· Specialized tool for safe and gentle disassembly



Technical attributes

#			I mm		↔		
	EAN	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	kg/lb
229-01	-117329	138	25	40	85	16	3,21
		5 7/16	1	1 9/16	3 3/8	5/8	7,078

SERIES 221-G INTERNAL EXTRACTOR WITH SLIDING HAMMER



The internal extractors with sliding hammer of the series 221 are used for pulling and internal extraction of ball bearings, roller bearings, inner rings, and other flush-mounted parts in craftsmanship, workshops, and industries when there is not enough space for puller arms. The internal extractor is a purpose-driven model with a large clamping range, which allows for contactless and gentle extraction of, for example, internal bearings due to its design. With the built-in sliding hammer, it not only saves space but also has a strong impact effect, which can securely extract even stuck parts.

Benefits

- Especially suitable for tight spaces where counter stays or puller devices cannot be installed due to lack of space.
- The built-in sliding hammer means that no support surface is required for this internal extractor.
- The shape of the sliding piece allows for a high impact weight of the sliding hammer with simple application.
- The internal stop point prevents pinching and ensures a safe working process.

#	4021176						SW		Included in the set
	EAN	mm/inch	mm/inch	mm/inch	mm/inch	kg	mm/inch	kg/lb	
221-G	-175824	30 - 180 1 3/16 - 7 1/16	135 5 5/16	320 12 5/8	250 9 13/16	1.7	17 11/16	4,4 9,702	224-677, 224-678

SERIES 224 INTERNAL EXTRACTOR WITH SLIDING HAMMER



The internal extractors with sliding hammer of the series 224 are used for extracting small end and guide bearings, bearing rings, and similar parts in crafts, workshops, and industry. The internal extractor is a purpose-oriented model with a large clamping range that allows for contactless and gentle extraction of, for example, internal bearings due to its design. With the built-in sliding hammer, it is not only space-saving but also provides a strong impact force that can safely extract even stuck parts.

Benefits

- Especially suitable for tight spatial conditions and small storage, as the hooks can be precisely pressed behind the part to be pulled out.
- With the built-in sliding hammer, this internal extractor does not require a support surface.
- The shape of the sliding piece allows for a high impact weight of the sliding hammer with simple application.
- The internal stopping point prevents crushing and ensures a safe working process.

Technical attributes

#			######################################				i
	EAN	mm/inch	mm/inch	mm/inch	mm/inch	kg	kg/lb
224-1	-325656	12 - 35 1/2 - 1 3/8	38 1 1/2	290 11 7/16	250 9 13/16	1	1,765 3,892
224-2	-325571	15 - 50 9/16 - 1 15/16	50 1 15/16	290 11 7/16	250 9 13/16	1	1,96 4,322

SERIES 223 PULLER FOR PARTS WITH THREADED HOLES



The pullers of series 223 are used for pulling parts with concentric threaded holes in crafts, industry, and workshops. The sliding hammer is capable of this together with the thread adapters. The ergonomically shaped, solid sliding piece allows the applied force to be optimally transmitted and a strong shock effect to be achieved. This also ensures a contactless and gentle extraction.

Benefits

- The thread adapters enable the careful and safe removal of parts with threaded holes.
- Using the dimensions laser-etched on the thread adapters, the thread can be uniquely identified.
- The shape of the sliding piece allows for a high impact weight of the sliding hammer with simple application.
- The internal stop point prevents crushing and ensures a safe working process.

#	4021176				□		i	Included in the set
	EAN	mm/inch	mm/inch	kg	nominal dimension	nominal dimension	kg/lb	
223	-309083	290 11 7/16	250 9 13/16	1	M3, M4, M5, M6, M8, M10, M12, M14, M16, M18	M10	1,635 3,605	28-A, 28-B, 28-C, 28-D

SERIES 223-2 DOWEL PIN PULLER WITH SLIDING HAMMER



The pass pin extractor of the series 223-2 is used for disassembling locking and dowel pins in crafts, industry, and workshops. The three arms mounted in the chuck can be adjusted to the respective application in the range of 1-13 mm. The grip force can be further increased through the micro-toothing in the chuck to ensure a secure fit. The ergonomically shaped, solid sliding piece allows for optimal transfer of applied force and achieves a strong shock effect.

Benefits

- · Universally adjustable spread up to 13 mm
- Increased power development through fine notching of the arms
- The shape of the sliding piece allows for a high impact weight of the sliding hammer with simple application.
- The internal stop point prevents pinching and ensures a safe working process.

Technical attributes

#	4021176					
	EAN	mm/inch	mm/inch	mm/inch	kg	kg/lb
223-2	-007088	1 - 13 1/32 - 1/2	290 11 7/16	250 9 13/16	1	0 0,000

SERIES 220/221 UNIVERSAL PULLER WITH SLIDING HAMMER



The 2-arm and 3-arm pullers with conical self-tensioning are used for concentric pulling of bearings, gears, and discs in all common sizes for crafts, workshops, and industry. This allows for the removal of any component that sits on a shaft and is freely accessible from the outside. With the tightening of the tension cone, the puller arms are automatically centered. By operating the tension cone, the desired spread can be set. Additionally, the puller arms can be pre-tensioned using the cone to prevent possible slipping. Usable as both external extractors and internal extractors (in combination with a sliding hammer) by simply reversing the puller arms and the tension cone.

Benefits

- By modifying the puller arms, various pulling methods are ensured.
- The internal puller can be designed either as a 2-arm or 3-arm tool, providing a flexible grip for the respective part.
- The arms self-center and secure themselves tightly to the part being pulled off.

#	4021176								Included in the set
	EAN	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	kg	kg/lb	
220+ NEW	-009754	0 - 150 0 - 5 7/8	170 6 11/16	60 - 180 2 3/8 - 7 1/16	500 19 11/16	250 9 13/16	1.7	10,855 23,935	K-220







SEPERATING

The separation is recommended for components lying flat. During the pull-off separation, the sharp, wedge-shaped cutting edges of the separator are pressed behind the part to be pulled off. The edges slip between the bearing and the seat. With the help of a puller device, which is screwed into the separator, the component can be removed gently and without damage thanks to the large support area of the separator.



The separating devices of series 15 and 17 are used together with the puller devices of series 18 for pulling off flat components when there is not enough space for puller arms. In a first step, the part to be disassembled is carefully separated. Subsequently, it can be pulled off from the outside without damaging it.

Benefits

- Sharp edges of the separating device grip under flatly resting components.
- To enlarge the clamping surface for an even gentler extraction, simply screw the separation arms into the extractor device in the
- Through the screwing of separating and pulling devices, the highest stability during separation is ensured.
- Multi-Traverse with scale as an adjustment aid for the foot bolts. The foot bolts provide a particularly firm stand (series 68)

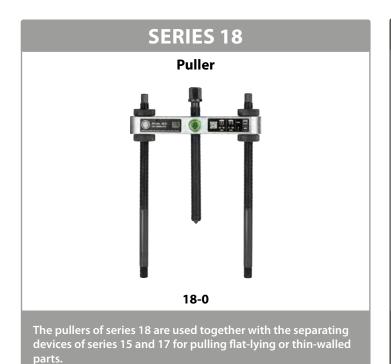
FEATURES OF THE SERIES

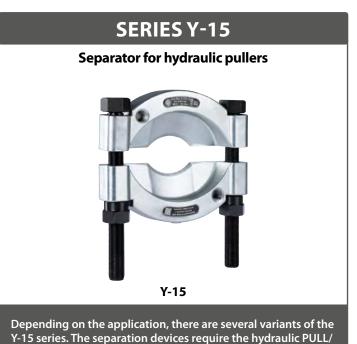


pulling devices of series 18 for removing ball bearings, roller bearings, inner rings, and other flat-lying components.



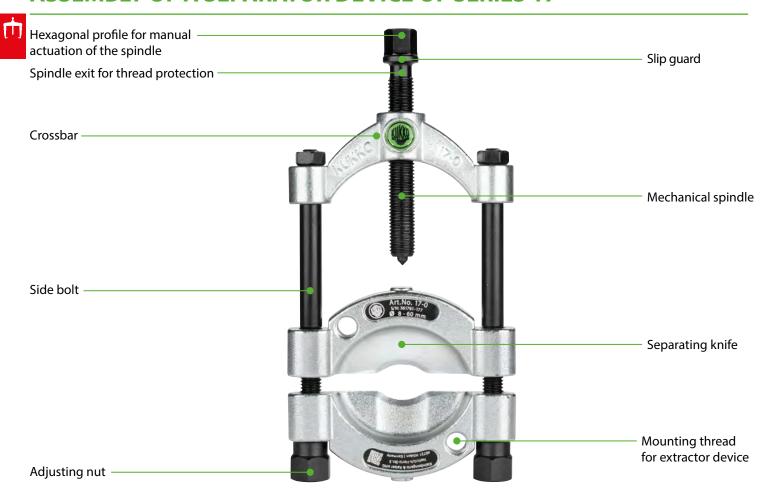
Compared to series 15, series 17 is particularly handy because the separating arms can be quickly and concentrically tensioned by a pressure spindle.





PUSH puller of the Y-180 series.

ASSEMBLY OF A SEPARATOR DEVICE OF SERIES 17



ASSEMBLY OF A PULLER DEVICE OF SERIES 18



The pullers and separating devices are also available in practical suitcase sets. Specifically assembled for application and industry, the sets impress with their universal use in separating pullers.



15-A







17-B K-68-B

OPTIONAL EXTENSION: REACH EXTENSION

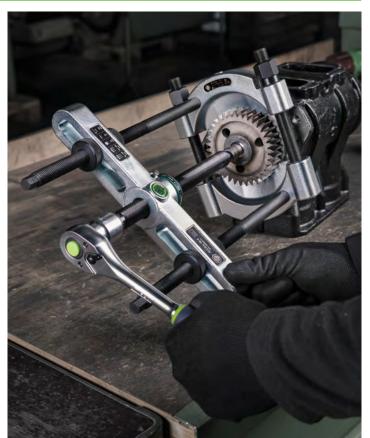
The extensions for puller devices are used together with the pullers of series 18 to increase the reach of the puller device. The extensions are available in pairs in various lengths.



APPLICATION EXAMPLES





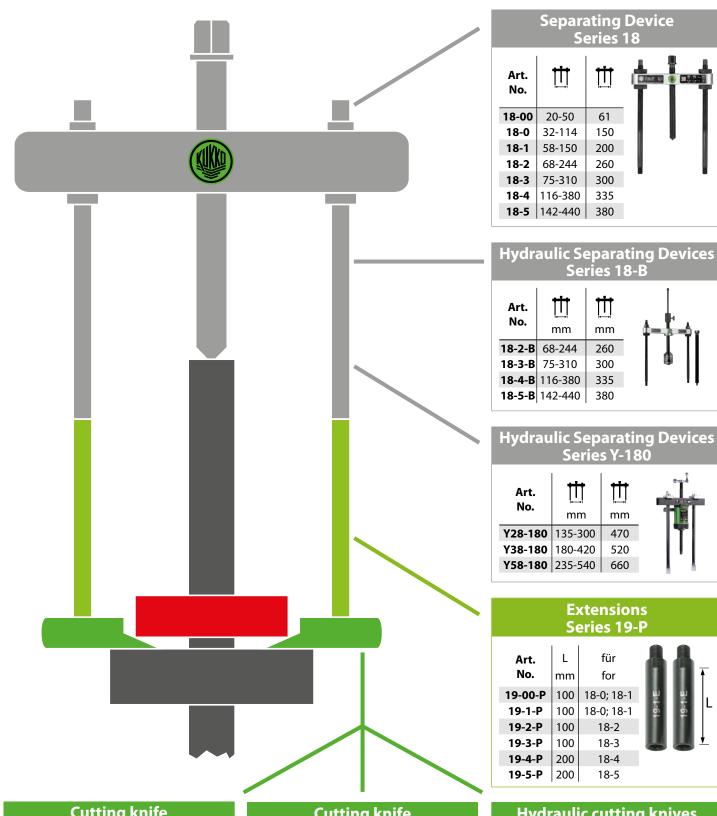


Removing a gearbox gear

TIP:

For an increase in the support surface, the separating arms of the separating devices (series 15 and 17) can be screwed into the extractor device in reverse. This enlarges the support surface, allowing for a more gentle extraction. This approach is recommended, for example, for rusted and brittle components.





Cutting knife Series 15

	rt. lo.	mm	mm	
15	-00	5- 60	60	
15	5-0	5- 60	60	
1:	5-1	12- 75	75	
1:	5-2	22-115	115	
15	5-3	25-155	155	
1	5-4	30-200	200	
1	5-5	30-250	250	

Cutting knife Series 17

Art. No.	mm	mm	
17-0	8- 60	60	W I W
17-1	8- 75	75	"
17-2	22-115	115	Chillip
17-3	30-155	155	

Hydraulic cutting knives Series Y-15

	Cuit		
Art. No.	mm	mm	0 (500)
Y-215-2	22-115	67	
Y-215-3	25-155	78	
Y-215-4	30-200	103	
Y-315-4	30-200	103	
Y-315-5	30-250	116	
Y-515-5	30-250	116	
Y-515-6	75-330	130	
Y-515-7	80-420	130	

SERIES 15 4-PIECE SEPARATION DEVICE SET



Technical attributes

The pulling devices of series 15 are used in conjunction with the pulling devices of series 18 for the removal of ball bearings, roller bearings, inner rings, and other flat components in crafts, industry, and workshops, when there is not enough space for puller arms. The separating-pulling process is capable of initially separating those parts gently before they can be pulled off from the outside.

Benefits

- The sharp edges allow for extraction where other extraction methods are not applicable.
- By screwing together the separation and pulling device, the highest stability during pulling is ensured.
- If the separating arms are screwed into the pulling device the other way around, the support area is enlarged and removed more gently.

				F	F	F	Ę	sw	1	IERBAR NABLE	Included
++-	4021176			y mm	mm	y mm	y <u>↓</u> mm	 		KOMBIN	in the set
	EAN	mm/inch	nominal dimension	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	kg/lb		
15-00	-101854	6 - 46 1/4 - 1 13/16	M6	24,5 15/16	0,2 1/64	3,3 1/8	12,5 1/2	10 3/8	0,23 0,507	18-00	29-A-69
15-0	-006951	8 - 60 5/16 - 2 3/8	M10	39,5 1 9/16	0,3 1/64	5,5 3/16	21 13/16	17 11/16	0,695 1,532	18-0	15-K
15-1	-007033	8 - 75 5/16 - 2 15/16	M10	43 1 11/16	0,5 1/64	6,4 1/4	25 1	19 3/4	1,15 2,536	18-1	15-A, 224- 678
15-2	-007118	22 - 115 7/8 - 4 1/2	M14x1,5	67 2 5/8	0,5 1/64	9,1 3/8	41 1 5/8	24 15/16	2,9 6,395	18-2, 18- 2-B	15-B, 224-678, K-20-15
15-3	-007293	30 - 150 1 3/16 - 5 7/8	M18x1,5	78 3 1/16	0,5 1/64	11,2 7/16	50 1 15/16	32 1 1/4	5,3 11,687	18-3, 18- 3-B	15-C
15-4	-007378	30 - 200 1 3/16 - 7 7/8	G5/8	103 4 1/16	2 1/16	15,6 5/8	65 2 9/16	41 1 5/8	11,8 26,019	18-4, 18- 4-B	15-D, 18- 4SAF
15-5	-007453	30 - 250 1 3/16 - 9 13/16	G3/4-14	116 4 9/16	2 1/16	14 9/16	70 2 3/4	46 1 13/16	18,5 40,793	18-5, 18- 5-B	15-E

15-K 4-PIECE SEPARATION DEVICE SET



The 15-K part separator set with 4 pieces is used for extracting ball bearings, roller bearings, inner rings, and other flat-lying components in crafts, industry, and workshops when there is insufficient space for puller arms. The separation-extraction process is capable of initially separating those parts gently before they can be pulled out from the outside. This 4-piece set includes one separator and one extractor device, as well as a pair of extensions, ensuring the full range of application is guaranteed.

Benefits

- By storing it in the box, the completeness of the set can be easily overviewed.
- The sharp edges enable peeling where other peeling methods are not applicable.
- By screwing together the separating and pulling device, the highest stability during pulling is ensured.

#	4021176	Ħ			SW 	Max. tensile force	Max. Tractive force		Components
	EAN	mm/inch	mm/inch	mm/inch	mm/inch	kN	t/US t. sh.	kg/lb	
15-K	-007941	250 9 13/16	50 - 110 1 15/16 - 4 5/16	8 - 60 5/16 - 2 3/8	13 1/2	30	3 3.31	2,86 6,306	15-0, 18-0, 19-1-P



15-A 4-PIECE SEPARATION DEVICE SET



The 4-piece separator set 15-A is used for pulling ball bearings, roller bearings, inner rings, and other flat-lying parts in crafts, industry, and workshops when there is insufficient space for puller arms. The separating-pulling process is capable of gently separating those parts before they can be pulled from the outside. This 4-piece set includes one separator and one puller as well as a pair of extensions, ensuring the full range of applications is covered.

Benefits

- By storing it in the box, the completeness of the set can be easily overviewed.
- The sharp edges enable peeling where other peeling methods are not applicable.
- By screwing together the separating and pulling device, the highest stability during pulling is ensured.

Technical attributes

#	4021176				sw 	Max. tensile force	Max. tractive force	i	Components
	EAN	mm/inch	mm/inch	mm/inch	mm/inch	kN	t/US t. sh.	kg/lb	
15-A	-007521	300 11 13/16	58 - 150 2 5/16 - 5 7/8	8 - 75 5/16 - 2 15/16	19 3/4	50	5 5.51	4,4 9,702	15-1, 18-1, 19-1-P

15-B 4-PIECE SEPARATION DEVICE SET



The 4-piece separator set 15-B is used for pulling ball bearings, roller bearings, inner rings, and other flat-lying parts in crafts, industry, and workshops when there is not enough space for puller arms. The separating-pulling process is capable of gently separating those parts initially before they can be pulled off from the outside. This 4-piece set includes one separator and one puller device as well as a pair of extensions, ensuring the full application range.

Benefits

- By storing it in the box, the completeness of the set can be easily overviewed.
- The sharp edges enable peeling where other peeling methods are not applicable.
- By screwing together the separating and pulling device, the highest stability during pulling is ensured.

#	4021176				SW ⊷	Max. tensile force	Max. tractive force		Components
	EAN	mm/inch	mm/inch	mm/inch	mm/inch	kN	t/US t. sh.	kg/lb	
15-B	-007606	350 13 3/4	60 - 200 2 3/8 - 7 7/8	22 - 115 7/8 - 4 1/2	22 7/8	70	7 7.72	9,5 20,948	15-2, 18-2, 19-2-P

15-C 4-PIECE SEPARATION DEVICE SET



The 15-C 8883-piece separator set is used for removing ball bearings, roller bearings, inner rings, and other flat-mounted parts in craft, industry, and workshops when there is not enough space for puller arms. The separating and pulling process is capable of initially separating these parts gently before they can be pulled off from the outside. This 4-piece set includes one separator and one puller device, as well as a pair of extensions, thereby ensuring the full range of application.

Benefits

- By storing it in the box, the completeness of the set can be easily overviewed.
- The sharp edges enable peeling where other peeling methods are not applicable.
- By screwing together the separating and pulling device, the highest stability during pulling is ensured.

Technical attributes

#	4 021176	††† į	<u> </u>		SW	Max. tensile force	Max. tractive force	i	Components
	EAN	mm/inch	mm/inch	mm/inch	mm/inch	kN	t/US t. sh.	kg/lb	
15-C	-007781	400 15 3/4	75 - 310 2 15/16 - 12 3/16	30 - 150 1 3/16 - 5 7/8	27 1 1/16	100	10 11.02	16,99 37,463	15-3, 18-3, 19-3-P

15-D 7-PIECE SEPARATOR SET



The 15-piece separator set 7 is used for pulling ball bearings, roller bearings, inner rings, and other flat-lying parts in crafts, industry, and workshops when there is insufficient space for puller arms. The separating and pulling process is capable of initially separating those parts gently before they can be pulled out externally. This 4-piece set includes one separating device and one pulling device, as well as a pair of extensions, ensuring the full range of applications is covered.

Benefits

- By storing it in the box, the completeness of the set can be easily overviewed.
- The sharp edges enable peeling where other peeling methods are not applicable.
- By screwing together the separating and pulling device, the highest stability during pulling is ensured.

#	4021176		<u> </u>		SW →	Max. tensile force	Max. tractive force		Components
	EAN	mm/inch	mm/inch	mm/inch	mm/inch	kN	t/US t. sh.	kg/lb	
15-D	-007866	550 21 5/8	120 - 380 4 3/4 - 14 15/16	30 - 200 1 3/16 - 7 7/8	36 1 7/16	150	15 16.53	32,18 70,957	15-4, 18-4, 19-4-P



15-E 7-PIECE SEPARATION DEVICE SET



The 15-piece separator set 7 is used for pulling ball bearings, roller bearings, inner rings, and other flat components in crafts, industry, and workshops when there is insufficient space for puller arms. The separation-pulling process is capable of initially separating these parts gently before they can be pulled off from the outside. This 4-piece set includes one separator and puller device each, as well as a pair of extensions, ensuring the full range of applications.

Benefits

- By storing it in the box, the completeness of the set can be easily overviewed.
- The sharp edges enable peeling where other peeling methods are not applicable.
- By screwing together the separating and pulling device, the highest stability during pulling is ensured.

#	4021176				S₩	Max. tensile force	Max. tractive force	i	Components
	EAN	mm/inch	mm/inch	mm/inch	mm/inch	kN	t/US t. sh.	kg/lb	
15-E	-308826	600 23 5/8	150 - 440 5 7/8 - 17 5/16	30 - 250 1 3/16 - 9 13/16	41 1 5/8	200	20 22.05	49 108.045	15-5, 18-5, 19-5-P



The separating device 15-2 during the removal of a fixed gear wheel on a machine component

SERIES 17 SEPERATOR WITH QUICK-ACTION PRESSURE SPINDLE



Technical attributes

The separating devices of the series 17 are used together with the pullers of the series 18 for pulling ball bearings, roller bearings, inner rings, and other flat-lying parts in crafts, industry, and workshops, where there is not enough space for puller arms. The separating-pulling process is capable of gently separating those parts initially before they can be pulled off from the outside. Compared to the series 15, the series 17 is particularly handy because the separating arms can be quickly and concentrically tightened by a pressure spindle.

Benefits

- A simple and safe handling is made possible by the quick-release clamp spindle.
- The sharp blades allow for extraction where other types of pullers are unsuitable.
- By screwing the separating and pulling device together, the highest stability during pulling is ensured.
- If the separation arms are screwed into the tightening device in reverse, the support surface is enlarged and is pulled off more gently.

#	4021176			F mm	mm	 mm	<u></u> <u></u> <u></u> <u></u> <u></u> mm	SW	i	KOMBINEBBAR COMBINABLE
	EAN	mm/inch	nominal dimension	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	kg/lb	
17-0	-008108	8 - 60 5/16 - 2 3/8	M10	39,5 1 9/16	0,3 1/64	5,5 3/16	21 13/16	17 11/16	0,95 2,095	18-0
17-1	-008283	8 - 75 5/16 - 2 15/16	M10	43 1 11/16	0,5 1/64	6,4 1/4	25 1	19 3/4	1,465 3,230	18-1
17-2	-008368	22 - 115 7/8 - 4 1/2	M14x1,5	67 2 5/8	0,5 1/64	9,1 3/8	41 1 5/8	24 15/16	3,72 8,203	18-2, 18- 2-B
17-3	-008443	30 - 150 1 3/16 - 5 7/8	M18x1,5	78 3 1/16	0,5 1/64	11,2 7/16	50 1 15/16	32 1 1/4	7,135 15,733	18-3, 18- 3-B

17-K 4-PIECE SEPARATOR SET WITH OUICK-ACTION PRESSURE SPINDLE



The 17-K 8,883-piece separator set is used for pulling ball bearings, roller bearings, inner rings, and other flat-lying parts in crafts, industry, and workshops when there is not enough space for puller arms. The separation-extraction process is capable of initially separating those parts gently before they can be pulled off from the outside. Compared to series 15, series 17 is particularly handy because the separation arms are quickly and concentrically clamped by a pressure spindle. This 4-piece set includes one separator and puller device as well as a pair of extensions, ensuring the full range of applications is guaranteed.

Benefits

- By storing it in the box, the completeness of the set can be easily overviewed.
- A simple and safe handling is made possible by the quick clamping pressure spindle.
- The sharp edges allow for extraction where other types of extraction are not applicable.

#	4021176	 			sw ↓	Max. tensile force	Max. tractive force	i	Components
	EAN	mm/inch	mm/inch	mm/inch	mm/inch	kN	t/US t. sh.	kg/lb	
17-K	-008856	150 5 7/8	50 - 110 1 15/16 - 4 5/16	8 - 60 5/16 - 2 3/8	13 1/2	30	3 3.31	3,11 6,858	17-0, 18-0, 19-1-P



17-A 4-PIECE SEPARATOR SET WITH QUICK-ACTION PRESSURE SPINDLE



The 17-A 4-piece separating device set is used for pulling ball bearings, roller bearings, inner rings, and other flat-lying parts in crafts, industry, and workshops when there is not enough space for puller arms. The separating-puller process is capable of gently separating those parts before they can be pulled out from the outside. Compared to the series 15, the series 17 is particularly handy because the separating arms can be quickly and concentrically tightened using a pressure spindle. This 4-piece set includes one separating and puller device as well as a pair of extensions, ensuring full application versatility.

Benefits

- By storing it in the box, the completeness of the set can be easily overviewed.
- A simple and safe handling is made possible by the quick clamping pressure spindle.
- The sharp edges allow for extraction where other types of extraction are not applicable.

Technical attributes

#	4021176	††† į̇̃	<u> </u>		sw 	Max. tensile force	Max. tractive force	i	Components
	EAN	mm/inch	mm/inch	mm/inch	mm/inch	kN	t/US t. sh.	kg/lb	
17-A	-008511	300 11 13/16	60 - 150 2 3/8 - 5 7/8	12 - 75 1/2 - 2 15/16	19 3/4	50	5 5.51	4,83 10,650	17-1, 18-1, 19-1-P

17-B 4-PIECE SEPARATOR SET WITH OUICK-ACTION PRESSURE SPINDLE



The 17-piece separator set 4 is used for removing ball bearings, roller bearings, inner rings, and other flat-lying parts in craftsmanship, industry, and workshops when there is not enough space for puller arms. The separator-extraction process is able to gently separate those parts initially before they can be pulled off from the outside. Compared to series 15, series 17 is particularly handy because the separator arms can be quickly and concentrically tightened by a pressure spindle. This 4-piece set includes one separator and puller device as well as a pair of extensions, ensuring the full range of applications.

Benefits

- By storing it in the box, the completeness of the set can be easily overviewed.
- A simple and safe handling is made possible by the quick clamping pressure spindle.
- The sharp edges allow for extraction where other types of extraction are not applicable.

#	4021176				SW 	Max. tensile force	Max. tractive force		Components
	EAN	mm/inch	mm/inch	mm/inch	mm/inch	kN	t/US t. sh.	kg/lb	
17-B	-008696	350 13 3/4	60 - 200 2 3/8 - 7 7/8	22 - 115 7/8 - 4 1/2	22 7/8	70	7 7.72	1,395 3,076	17-2, 18-2, 19-2-P

17-C 4-PIECE SEPARATOR SET WITH QUICK-ACTION PRESSURE SPINDLE



The 4-piece separator set 17-C is used for pulling ball bearings, roller bearings, inner rings, and other flat-lying parts in crafts, industry, and workshops when there is insufficient space for puller arms. The separating and pulling process is capable of gently separating those parts before they can be pulled off from the outside. Compared to the series 15, the series 17 is particularly handy because the separating arms can be quickly and concentrically tightened by a pressure spindle. This 4-piece set includes a separating and pulling device, as well as a pair of extensions, ensuring the full range of applications.

Benefits

- By storing it in the box, the completeness of the set can be easily overviewed.
- A simple and safe handling is made possible by the quick clamping pressure spindle.
- The sharp edges allow for extraction where other types of extraction are not applicable.

Technical attributes

#	4021176				SW	Max. tensile force	Max. tractive force	i	Components
	EAN	mm/inch	mm/inch	mm/inch	mm/inch	kN	t/US t. sh.	kg/lb	
17-C	-008771	400 15 3/4	80 - 130 3 1/8 - 5 1/8	25 - 155 1 - 6 1/8	27 1 1/16	100	10 11.02	19 41,895	17-3, 18-3, 19-3-P

SERIES Y-15 SEPARATOR FOR HYDRAULIC PULL/ PUSH PULLERS



The Y-15 series separation devices are used for pulling ball bearings, roller bearings, inner rings, and other flush-fitting parts in crafts, workshops, and industries when there is not enough space for pulling hooks. The separation-puller process can initially separate those parts gently before they can be pulled off from the outside. The Y-15 series impresses with its compatibility and variety of applications. Depending on the application case, there are several variants of the separation devices. The Y-15 series separation devices require the hydraulic puller device of the Y-180 series.

Benefits

- The required hydraulic pulling device, in combination with the separating device, allows for the easy and controlled removal of particularly stubborn parts.
- The sharp edges allow for a pulling action where other types of pullers are unusable.
- By screwing the separating and pulling device, the highest stability during pulling is ensured.
- If the separator arms are screwed in the opposite direction into the puller device, the supporting surface is enlarged and is removed more gently.

#	4 021176			F mm	mm	mm		SW		KOMBINERBAR COMBINABLE	Included in the set
	EAN	mm/inch	nominal dimension	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	kg/lb		
Y-215-2	-172106	22 - 115 7/8 - 4 1/2	5/8"-18 UNF	67 2 5/8	0,5 1/64	9,1 3/8	41 1 5/8	24 15/16	2,86 6,306	Y28-180	818-100, 818-215
Y-215-3	-039546	25 - 155 1 - 6 1/8	5/8″-18 UNF	78 3 1/16	0,5 1/64	11,2 7/16	50 1 15/16	32 1 1/4	2,88 6,350	Y28-180	818-150, 818-215, 845-855, 845-858, Y28-200, Y28-218
Y-315-4	-398186	30 - 200 1 3/16 - 7 7/8	1″-14 UNS	103 4 1/16	2 1/16	15,6 5/8	65 2 9/16	41 1 5/8	11,865 26,162	Y38-180	Y38-300
Y-215-4	-385629	30 - 200 1 3/16 - 7 7/8	5/8"-18 UNF	103 4 1/16	2 1/16	15,6 5/8	65 2 9/16	41 1 5/8	11,8 26,019	Y28-180	-
Y-315-5	-041501	30 - 250 1 3/16 - 9 13/16	1"-14 UNS	116 4 9/16	2 1/16	14 9/16	70 2 3/4	46 1 13/16	20,11 44,343	Y38-180	Y38-318
Y-515-5	-400063	30 - 250 1 3/16 - 9 13/16	1 1/4"-12 UNF	116 4 9/16	2 1/16	14 9/16	70 2 3/4	46 1 13/16	19 41,895	Y58-180	-
Y-515-6	-043581	75 - 330 2 15/16 - 12 1	1 1/4"-12 UNF	130 5 1/8	2 1/16	16 5/8	70 2 3/4	55 2 3/16	39 85,995	Y58-180	Y58-518, Y58-500
Y-515-7	-172281	80 - 420 3 1/8 - 16 9/16	1 1/4"-12 UNF	130 5 1/8	2 1/16	16 5/8	70 2 3/4	55 2 3/16	45 99,225	Y58-180	-

SERIES 18 2-ARM PULLER DEVICE



The puller devices of series 18 are used in conjunction with the separating devices of series 15 and 17 for pulling flat-lying or thin-walled parts in craft, industry, and workshops when there is not enough space for arms. The separating-pulling process is capable of initially separating those parts gently before they can be externally pulled off.

Benefits

- By screwing the separator and puller device, the highest stability when pulling is ensured.
- If the separating arms are screwed into the clamping device the other way around, the support surface is enlarged and pulled off more gently.
- Due to its simple design, special separating devices can also be easily created in-house for the series 18.

#	4021176			SW →	P	Max. tensile force	Max. tractive force		TITY/HAROD STEENMENON	Included in the set
	EAN	mm/inch	mm/inch	mm/inch	Nm/ft lb	kN	t/US t. sh.	kg/lb		
18-00	-101939	20 - 110 13/16 - 4 5/16	61 2 3/8	12 1/2	40 29.50	15	1.5 1.65	0,82 1,808	15-00, 19-00-P	-
18-0	-075599	32 - 114 1 1/4 - 4 1/2	150 5 7/8	13 1/2	40 29.50	30	3 3.31	0,825 1,819	15-0, 17-0, 19-1-P, 18-003A, 18-004A, 18-005A, 18-006A, 18-008A, 18-010A, 18-012A, 18-016A, 18-0-AS	15-K
18-1	-075674	58 - 150 2 5/16 - 5 7/8	200 7 7/8	19 3/4	70 51.63	50	5 5.51	2 4,410	15-1, 17-1, 19-1-P, 18-003A, 18-004A, 18-005A, 18-006A, 18-008A, 18-010A, 18-012A, 18-016A, 18-0-AS	15-A, 224-678
18-2	-075759	68 - 244 2 11/16 - 9 5/8	260 10 1/4	22 7/8	120 88.51	70	7 7.72	3,245 7,155	8-0-621, 15-2, 17-2, 8-01, 19-2-P, 18-208A, 18-210A, 18-212A, 18-214A, 18-216A, 18-218A, 18-2-AS	15-B, 224-678, K-20-15
18-3	-005961	75 - 310 2 15/16 - 12 3/16	300 11 13/16	27 1 1/16	280 206.53	100	10 11.02	6,375 14,057	15-3, 8-02, 17-3, 8-0-626, 19-3-P, 18-314A, 18-316A, 18-318A, 18-320A, 18-322A, 18-324A, 18-3-AS	15-C
18-4	-006043	116 - 380 4 9/16 - 14 15/16	335 13 3/16	36 1 7/16	450 331.92	150	15 16.53	14,3 31,532	15-4, 8-1-B, 19-4-P	15-D, K-226-4/12, 18-4SAF
18-5	-075834	142 - 440 5 9/16 - 17 5/16	380 14 15/16	41 1 5/8	500 368.80	200	20 22.05	24,19 53,339	15-5, 8-2-M, 19-5-P	15-E

SERIES 18-B HYDRAULIC PULLER DEVICE WITH MECHANICAL SPINDLE



The puller devices of series 18 are used together with the separating devices of series 15 and 17 for pulling flat-lying or thin-walled parts in craftsmanship, industry, and workshops when there is insufficient space for arms. The separating-pulling process is capable of initially separating those parts gently before they can be pulled from the outside. Series 18-B is additionally equipped with a hydraulic spindle that achieves an average pulling force of up to 20 t, thus allowing a gentle and efficient separating-pulling operation.

Benefits

- Through the bolting of the separator and puller, the highest stability during extraction is ensured.
- If the separating arms are screwed into the tensioning device the other way around, the contact surface is increased and is removed more gently.
- Due to its simple design, special separation devices can also be easily created for the series 18 in custom applications.
- Hydraulics ensures a power-saving and fast extraction

Technical attributes

#	######################################	mm/inch	mm/inch	Nm/ft lb	Max. tensile force kN	Max. tractive force t/US t. sh.	kg/lb	Harrison Stephanon
18-2-B	-885723	68 - 244 2 11/16 - 9 5/8	260 10 1/4	15 11.06	100	10 11.02	4,745 10,463	17-2, 15-2
18-3-B	-885730	75 - 310 2 15/16 - 12 3/16	300 11 13/16	20 14.75	120	12 13.23	8,405 18,533	17-3, 19-3-P, 15-3
18-4-B	-885747	116 - 380 4 9/16 - 14 15/16	335 13 3/16	45 33.19	150	15 16.53	21,11 46,548	19-4-P, 15-4
18-5-B	-885754	142 - 440 5 9/16 - 17 5/16	380 14 15/16	30 22.13	200	20 22.05	37 81,585	19-5-P, 15-5

SERIES 19-P 2 EXTENSIONS FOR PULLER DEVICES

The extensions for pullers are used together with the pullers of series 18 in craft, industry, and workshop to increase the reach of the puller. The extensions are available in various lengths in pairs.



Benefits

 The extensions are combinable with each other, allowing for optimal adjustment to the required reach.

#	 		<i>e</i> ± •	L ←──→	SW 	i	Included in the set
	EAN	nominal dimension	mm/inch	mm/inch	mm/inch	kg/lb	
19-00-P	-120510	M6	10 3/8	95 3 3/4	8 5/16	0,115 0,254	-
19-1-P	-169984	M10	14 9/16	100 3 15/16	12 1/2	0,23 0,507	-
19-2-P	-170041	M14x1,5	22 7/8	100 3 15/16	19 3/4	0,555 1,224	-
19-3-P	-170126	M18x1,5	24 15/16	100 3 15/16	19 3/4	0,655 1,444	-
19-4-P	-168321	G5/8	23 7/8	200 7 7/8	32 1 1/4	0,23 0,507	18-4SAF
19-5-P	-152306	G3/4	26,3 1 1/32	200 7 7/8	36 1 7/16	2,94 6,483	-
19-7-P	-041181	M10	22 7/8	100 3 15/16	17 11/16	0,596 1,314	-



The Power Nut is a true powerhouse! It can generate forces that can otherwise only be achieved with hydraulics. For more energy- 🕕 efficient clamping of tools and workpieces, as well as driving without significant friction losses, KUKKO has developed the Power Nut. The Power Nut can be used as a movement thread and is employed in fixture construction as well as in assembly and clamping technology. The nut also serves as a tool for pressing in or as a clamping aid to generate higher clamping forces.

Benefits

- · Low construction height enables use in confined space conditions.
- Increased power generation with minimal friction
- · Long service life without maintenance due to stable construction
- · Applicable above or below the crossbar to increase tension or compressive force

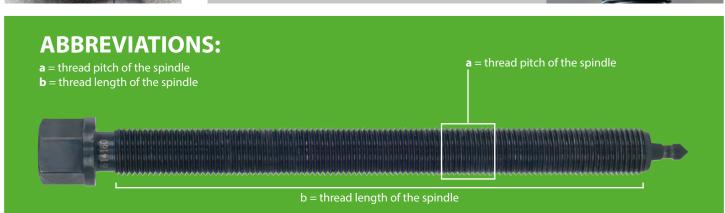
ASSEMBLY OF THE POWER NUT



SYSTEMATIC OF ITEM NUMBERS

All KUKKO pressure spindles and Power Nuts are equipped with a descriptive item number. Both item numbers include the diameter of the thread, thus enabling a quick match of the appropriate Power Nut to the respective spindle.





FEATURES OF THE SERIES



Zugkraft	Art. No. Spindel	Art. No. Power Nut
2 t	608	670817 Ø30 M8 - SW17
000	610	671017 Ø30 M10 - SW17
4t	612	671217 Ø30 M12 - SW17
0 0	612	671224 Ø36 M12x1,5 - SW24
6 t	615	671519 Ø30 M15x1,5 - SW19
	616	671624 Ø36 M16 - SW24
0 0	-	671827 Ø46 M18 - SW27
8 t	620	672032 Ø46 M20 - SW32
	621	672132 Ø46 G1/2 - SW32
	-	672432 Ø46 M24 - SW32
0 0	626	672646 Ø67 G3/4 - SW46
	-	673046 Ø67 M30 - SW46
	-	673655 Ø67 M36 - SW55



FUNCTIONALITY





The Power Nut is located above the crossbar. By turning the Power Nut, the spindle is pulled upwards with increased force until the cylinder socket is drawn out.

INCREASED PRESSURE FORCE



The Power Nut is located below the crossbar. By operating the hexagon, the spindle is pressed down. In the process, the Power Nut amplifies the applied force multiple times.

APPLICATION EXAMPLES



The power nut is screwed onto the spindle.



The Power Nut reduces the effort required to actuate the spindle.

SERIES 670000 POWER NUT



For more efficient clamping of tools and workpieces, as well as driving without significant friction loss, KUKKO has developed the Power Nut. The Power Nut can be used as a motion thread and is employed in fixture construction as well as in assembly and clamping technology. The nut also serves as a tool for pressing in or clamping aids to generate higher clamping forces.

#	4 021176				SW →	Max. tensile force	Max. tractive force	i
	EAN	mm/inch		mm/inch	mm/inch	kN	t/US t. sh.	kg/lb
670817	-080203	30 1 3/16	M8	19,5 3/4	17 11/16	10	1 1.10	0,04 0,088
671017	-283345	30 1 3/16	M10	19,5 3/4	17 11/16	20	2 2.20	0,04 0,088
671217	-283352	30 1 3/16	M12	19,5 3/4	17 11/16	20	2 2.20	0,35 0,772
671224	-060823	36 1 7/16	M12	21,5 7/8	24 15/16	20	2 2.20	0,12 0,265
671519	-344459	30 1 3/16	M15	19,5 3/4	19 3/4	40	4 4.41	0,1 0,221
671624	-283369	36 1 7/16	M16	21,5 7/8	24 15/16	40	4 4.41	0,12 0,265
671827	-283376	36 1 7/16	M18	23 7/8	24 15/16	40	4 4.41	0,15 0,331
672032	-283383	46 1 13/16	M20	24 15/16	32 1 1/4	60	6 6.61	0,2 0,441
672132	-283390	46 1 13/16	G 1/2"	24 15/16	32 1 1/4	60	6 6.61	0,12 0,265
672432	-283413	46 1 13/16	M24	26 1 1/32	32 1 1/4	60	6 6.61	0,17 0,375
672646	-182105	67 2 5/8	G 3/4"	31,5 1 1/4	46 1 13/16	80	8 8.82	0,17 0,375
673046	-283420	67 2 5/8	M30	31,5 1 1/4	46 1 13/16	80	8 8.82	0,17 0,375
673655	-283437	67 2 5/8	M36	31,5 1 1/4	55 2 3/16	80	8 8.82	0,21 0,463







REMOVING

When removing ball bearings, it must first be decided whether the bearing may be destroyed or should be retained. The ball bearing can be located on a shaft or in a housing. There are also applications in which both installation situations apply. When dismounting with the series 69 ball bearing extractor sets, the cage of the bearing must be drilled out so that the hemispheres of the bearing adapters can be screwed in. The series 70 ball bearing extractors are used for the non-destructive removal of bearings. The specially developed puller hooks grip precisely into the bearing raceway of the ball bearing.



Many ball bearings sit on a shaft, in a housing, or even both together. To ensure proper disassembly, a special type of puller is required. First, the ball bearing to be removed should be determined by its dimensions. For the choice of the right puller, it is important whether the bearing is to be destroyed or whether it is to be reused. With series 69 and 70, KUKKO offers various tools for ball bearing disassembly, while the bearing installation tool set from series 71 allows ball bearings to be installed effortlessly.

Benefits

- Versatile application without damaging the shaft (series 69)
- Quick and secure selection through labeling of the storage adapters (series 69)
- The special crossbar shape allows for a safe, easy hanging and the force-amplifying self-tensioning of the arms (PULLPO Technology)
- Self-damaged bearings can be gripped by the adjustable hooks (series 70).
- By combining the impact ring and impact tube, the installation forces are never transmitted over the rolling bodies of the bearing, thus protecting it (series 71).

FEATURES OF THE SERIES



bearings of all types, which are seated in a housing and/ or on a shaft. In this type of disassembly, the ball bearing is destroyed.

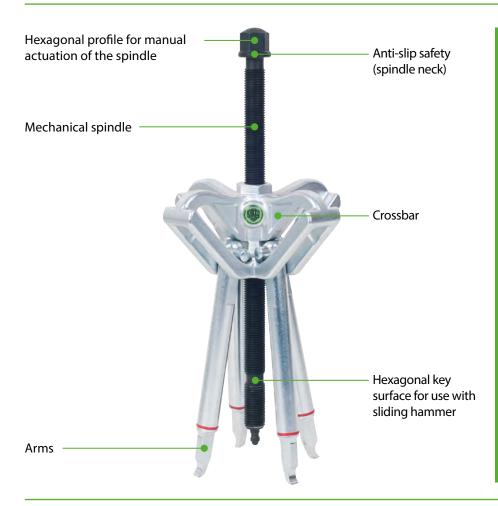


The pullers of series 70 are used for non-destructive removal of deep groove ball bearings without disassembling the shaft. With this type of dismantling, the ball bearing remains undamaged and can be reused.



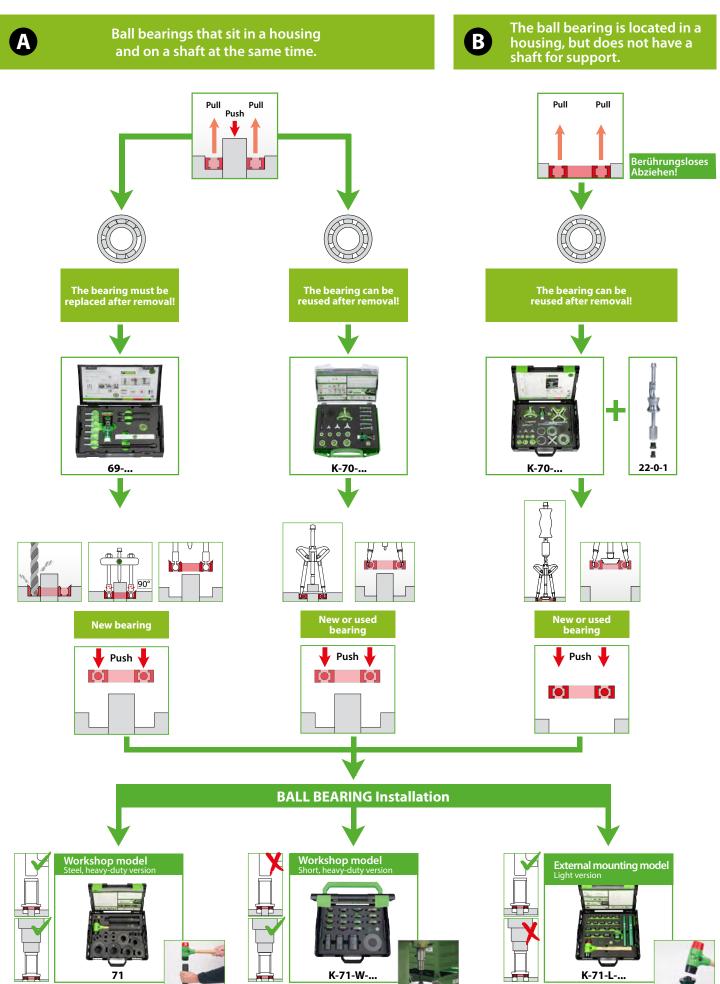


ASSEMBLY OF THE SERIES 70





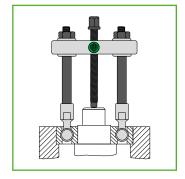
巾





(50)	Cross-beam and spindle				AX	
	Art.No.	70-011 (3 pcs.) 70-012 (3 pcs.)	70-021 (4 pcs.) 70-022 (4 pcs.)	70-01-R 70-02-R AA - GG B - G	700117 700217 S M L S M L XL	
6000					_	
6001				_	▲ S	
6002		70-011 small				
6003					Δ	
6004				DD	▲ M	4
6005	- I _	70-012 wide		EE GG	A 1	K-70-A
6006 6200				GG	▲ L	4
6201		70-011 small		-	▲ S	
6202	- [70-011 Siliali		ВВ		
6203	70-01			CC	▲ M	
6204	70-01			DD	<u></u>	
6205	-	70-012 wide		FF	<u> </u>	-
6300	-					
6301	†	70-011 small		AA	▲ S	
6302				CC	▲M	
6303		70-012 wide		DD	▲ L	
6304				FF	▲ M	
6403				GG		
6404		70-022 wide		В		
6305		70-022 wide		GG	~ c	
6405				В	× S	U
6206		70-021 small		GG		Ğ
6306		70-021 Siliali		В		K-70-C
6406		70-022 wide		D	× M	
6007		70-021 small		-	× s	
6207		70-022 wide		В		
6307	_	70-021 small		С	× M	
6407	-	70-022 wide		E	X L	
6008		70-021 small		-	56.14	
6208	- 1	70.022		С	× M	
6308 6408	-	70-022 wide		D F	V 1	
6009		70-021 small		<u>г</u>	X L	
6209				D	× M	K-70-B
6309	-	70-022 wide		E		.70
6010				-		¥
6210		70-021 small		E		
6310	- 	70-022 wide		F	X L	
6011	70-02			-		
6211	, , , , ,	70-021 small		F		
6311		70-022 wide		G	🗶 XL	
6012] [70-021 small		-	X L	
6212		70-022 wide		G		
6013		70-021 small			🗶 XL	
6014	_					
6015	_					
6016	_			_		
6017	_	70-022 wide			bearing too large	
6018	4				J 2 32	
6019	-					
6020						

Art.No. Set	Art.No. Adapter	Ball bearing size ISO ISO							
O SERVE II TO BE	69-A1	6004 - 6008	6201 - 6203	-	-				
	69-A2	6005 - 6010	6202 - 6205	6300 - 6302	6300 - 6302	69-A			
69-A	69-A3	6009 - 6013	6206	6303 - 6305	-				
	69-B4	6011-6015	6206-6210	6305-6306	-				
	69-B5	6016 - 6020	6207 - 6211	6307	6403	8-69			
69-B	69-B6	6016-6020	6212	6308-6309	6404-6407				
	69-C7	6021-6024	6213-6216	6310-6311	6406-6408				
Transmiss of	69-C8	6026 - 6030	6217 - 6218	6310-6312	6407-6409				
	69-C9	6032	6219-6220	6313-6314	6410)-69			
	69-C10	-	6221	6315	6411	69			
69-C	69-C11	-	6222-6230	6316-6318	6412-6413				
	69-C12	-	-	6319-6321	6414-6417				











The crossbars and hooks in sets 70-A, 70-B and 70-K can be easily assigned using the following labelling:









Traverse Art.No.	Hook Art.No.		Bearing Size (* = Spacer Ring needed)						
70.1	70-711	6000; 6001; 6002; 6003	6200						
70-1	70-712**	*6004; *6005; *6006	6201; *6202; *6203	*6300					
	70-713**		*6204; *6205	*6301; *6302; *6303			70-K		
70-2	70-721**	6007; 6008; 6009; 6010; *6013				70-A			
	70-722**	6011 6012	*6206 *6207	*6304; *6305; *6306					
70-3	70-731**		*6208; *6209; *6210	*6307	*6403 *6407				
8	70-732**		6211 *6212	*6308; *6309; *6310; *6311	*6404; *6405; *6406; *6408				
	70-4730**	*6014 *6015 *6016 *6017							
70-4	70-4731**	*6018 6019 *6020	*6213 *6214 *6215						
Δ	70-4733**		*6216 *6217 *6218 *6219 *6220 *6221 *6222	*6312 *6313 *6314 *6315 *6316 *6317	*6410 *6411 *6412 *6413 *6414 *6415	70-B			
	70-4734	6021			6409				

^{**}Additional support rings are supplied with these sets. These bridge different distances between the bearing rings and thus

For bearings marked with an *, the support ring provided with the relevant bearing nut is placed on the inner ring of the bearing beforehand.

BALL BEARING INSTALLATION WITH SERIES 71

external mounting model of series 71 is used for the quick, precise, without damaging shafts, bearing housings, or seal rings.

- The required combination of impact ring and impact sleeve can be found in the table in the lid of the case.

 The impact ring and impact tube gently transmit the installation forces through the frame of the bearing.

 The included SELECTHOR hammer can be flexibly used by s
- wapping the included striking heads.



Impact rings Soft-face hammer Selecthor

The bearing installation tool set made of steel as a lightweight external mounting model of series 71 is used for the quick, precise, and safe installation of bearings and seals in craft, industry, and workshops. The tool set allows for a damage-free installation of bearings without damaging shafts, bearing housings, or seal rings.

SETS

The puller and separator devices are also available in practical case sets. Application-specific and industry-oriented, the sets impress with their universal use.





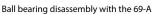




69-A K-70-B 70-K

APPLICATION EXAMPLES







Ball bearing disassembly with the 70-0



Bearing installation with the 71-L



69-A 10-PIECE BALL BEARING PULLER SET "UNIVERSAL"



The 10-piece ball bearing puller set 69-A is used for pulling ball bearings of all types that are seated in a housing and/or on a shaft, in craft, industry, and workshops. Although the affected ball bearing cannot be reused in this process, the application ensures safety and the integrity of the corresponding housing or shaft while also requiring minimal effort. The series 69 impresses with its versatility; depending on the required bearing ball diameter, three different sets are available that allow for ideal and tailored use.

Benefits

- · Versatile application without damaging the spindle
- · Application-oriented compilation for universal use

Technical attributes

#	4021176	<u> </u>	Ħį	SW ⊷	ე გ 	(50)	i
	EAN	mm/inch	mm/inch	mm/inch	mm/inch		kg/lb
69-A	-781391	20 - 110 13/16 - 4 5/16	100 3 15/16	12 1/2	5,3, 5,8, 8 3/16;3/16;5/16	6004, 6005, 6006, 6007, 6008, 6009, 6010, 6011, 6012, 6013, 6201, 6202, 6203, 6204, 6205, 6206, 6300, 6301, 6302, 6303, 6304, 6305	1,85 4,079

69-B 12-PIECE BALL BEARING PULLER SET "UNIVERSAL"



The 12-piece ball bearing puller set 69-B is used for removing ball bearings of all types that sit in a housing and/or on a shaft, in craftsmanship, industry, and workshops. Although the affected ball bearing cannot be reused in this process, the application ensures safety and integrity of the corresponding housing or shaft, with minimal effort. The series 69 impresses with its versatility; depending on the required ball diameter, three different sets are available, allowing for ideal and tailored usage.

Benefits

- · Versatile application without damaging the spindle
- Application-oriented compilation for universal use

#	4021176		ĦŢ	SW ⊷	 Ø	(150)	
	EAN	mm/inch	mm/inch	mm/inch	mm/inch		kg/lb
69-B	-781476	40 - 140 1 9/16 - 5 1/2	200 7 7/8	17 11/16	8, 9, 11, 12,5 5/16;3/8;7/16;1/2	6011, 6012, 6013, 6014, 6015, 6016, 6017, 6018, 6019, 6020, 6206, 6207, 6208, 6209, 6210, 6211,6212, 6305, 6306, 6307, 6308, 6309, 6403, 6404, 6405, 6406, 6407	1,755 3,870

69-C 16-PIECE BALL BEARING PULLER SET "UNIVERSAL"



The 16-piece ball bearing puller set 69-C is used for extracting ball bearings of all types that are mounted in a casing and/or on a shaft, in crafts, industry, and workshops. Although the affected ball bearing cannot be reused during this process, the application ensures safety and the integrity of the associated casing or shaft while requiring minimal work effort. The 69 series impresses with its variability; depending on the required ball bearing diameter, three different sets are available, allowing for ideal and customized use.

Benefits

- Versatile application without damaging the spindle
- · Application-oriented compilation for universal use

Technical attributes

#	4021176		ŢŢĮ	SW →	∏ 5 -, -	((50)	i
	EAN	mm/inch	mm/inch	mm/inch	mm/inch		kg/lb
69-C	-781544	60 - 240 2 3/8 - 9 7/16	500 19 11/16	22 7/8	16, 19, 22, 25, 28, 32 5/8;3/4;7/8;1;1 1/8;1 1/4	6021, 6022, 6024, 6026, 6028, 6030, 6032, 6213, 6214, 6215, 6216, 6217, 6218, 6219, 6220, 6221,6222, 6224, 6226, 6228, 6230, 6310, 6311, 6312, 6313, 6314, 6315, 6316, 6317, 6318, 6319, 6320, 6321, 6406, 6407, 6408, 6409, 6410, 6411, 6412	11 24,255

SERIES 70 BALL BEARING PULLER, WITHOUT HOOKS



The ball bearing pullers of series 70 are used for non-destructive removal of deep groove ball bearings without disassembling the shaft in crafts, industry, and workshops. With these pullers, bearings that are seated simultaneously in a housing and on a shaft can be removed easily and quickly, and can be reused if they are not already damaged. The series 70 impresses with its specifically developed arms for precise installation in the bearing raceways. Various arm sets are available for each puller size.

Benefits

- Suitable for a variety of groove diameters through infinitely adjustable hooks and internationally applicable.
- Self-damaged bearings can be grasped by the adjustable hooks.
- The claw shape ensures a secure grip, allowing for high pulling forces to be developed.
- The puller is also suitable for removing sealed bearings from housing bores.

#		sw ⊷	i	COMMINTAL	Included in the set
	EAN	mm/inch	kg/lb		
70-1	-021138	17 11/16	0,38 0,838	70-711, 70-712, 70-713	KS-70-A-K
70-2	-021213	17 11/16	0,67 1,477	70-721, 70-722	KS-70-A-K
70-3	-021398	24 15/16	1,38 3,043	70-731, 70-732	-
70-4	-316418	22 7/8	2,315 5,105	70-4730, 70-4731, 70-4733, 70-4734	-



SERIES 70-4S PULLING ARM SET



The pulling arm sets of series 70-S are suitable for bearing pullers of series 70 and are used for non-destructive removal of deep groove ball bearings without dismantling the shaft. In addition to the arms, the sets also include anti-slip safety rings as spare parts.

Technical attributes

#	4021176	L ←—→	(150)		COMPILERA
	EAN	mm/inch		kg/lb	
70-711	-021473	150 5 7/8	6000, 6001, 6002, 6003, 6200	0,3 0,662	70-1
70-712	-021541	150 5 7/8	6004, 6005, 6006, 6201, 6202, 6203, 6300	0,29 0,639	70-1
70-713	-021626	170 6 11/16	6204, 6205, 6301, 6302, 6303	0,32 0,706	70-1
70-721	-021701	180 7 1/16	6007, 6008, 6009, 6010, 6011, 6012, 6013	1,75 3,859	70-2
70-722	-021886	180 7 1/16	6011, 6012, 6206, 6207, 6304, 6005, 6306	0,58 1,279	70-2
70-731	-021961	217 8 9/16	6208, 6209, 6210, 6307, 6403, 6407	1,16 2,558	70-3
70-732	-022043	217 8 9/16	6211, 6212, 6308, 6309, 6310, 6311, 6404, 6405, 6406, 6407, 6408	1,915 4,223	70-3
70-4730	-320453	217 8 9/16	6014, 6015, 6016, 6017	1,265 2,789	70-4
70-4731	-320521	217 8 9/16	6018, 6019, 6020, 6213	2,22 4,895	70-4
70-4733	-320781	290 11 7/16	6216, 6217, 6218, 6219, 6220, 6221, 6222, 6312, 6313, 6314, 6315, 6316, 6317, 6410, 6411, 6412	8,78 19,360	70-4
70-4734	-320606	290 11 7/16	6021, 6409	1,36 2,999	70-4

70-K 37-PIECE BALL BEARING PULLER SET FOR DEEP GROOVE BALL BEARINGS



The 37-piece ball bearing puller set 70-K is used for non-destructive extraction of deep groove ball bearings without disassembling the shaft in crafts, industry, and workshop. With these pullers, bearings that are simultaneously mounted in a housing and on a shaft can be easily and quickly removed and can be reused, provided they are not already damaged. The series 70 impresses with its specially developed extraction arms designed for precise installation into the bearing tracks, enabling the secure removal of small to large bearings.

Benefits

- By storing it in the box, the completeness of the set can be easily overviewed
- Quick and secure selection by labeling the storage adapters
- In the sentence, in addition to the pullers, there are also the corresponding puller sets and extractor rings, ensuring optimal application at all times

#	4021176	J <u>Ī</u>	(150)			i	Components
	EAN	mm/inch		mm/inch	mm/inch	kg/lb	
70-K	-786754	150 - 180 5 7/8 - 7 1/16	6000–6013, 6200–6207, 6300–6306	10 - 65 3/8-2 9/16	26 - 100 1 1/32-3 15/16	6,165 13,594	70-1, 70-711, 70-712, 70- 713, 70-2, 70-721, 70-722

70-A 59-PIECE BALL BEARING PULLER SET FOR DEEP GROOVE BALL BEARINGS



The 70-A 8883-piece ball bearing puller set is used for non-destructive removal of deep groove ball bearings without disassembly of the shaft in crafts, industry, and workshop. With these pullers, bearings that are simultaneously seated in a housing and on a shaft can be easily and quickly removed and, if not already damaged beforehand, can be reused. The series 70 impresses with its specially developed arms for precise installation in the bearing raceways, enabling safe removal of small to large bearings.

Benefits

- By storing it in the box, the completeness of the set can be easily overviewed.
- Quick and secure selection by labeling the storage adapters
- In the sentence, in addition to the pullers, there are also the corre sponding puller sets and extractor rings, ensuring optimal application at all times.

Technical attributes

#	4021176	JĪ	(SO)			i	Components
	EAN	mm/inch		mm/inch	mm/inch	kg/lb	
70-A	-022128	150 - 217 5 7/8 - 8 9/16	6000–6013, 6200–6212, 6300–6311, 6403–6408	10 - 60 3/8-2 3/8	26 - 120 1 1/32-4 3/4	10,025 22,105	70-1, 70-711, 70-712, 70-713, 70-2, 70-721, 70- 722, 70-3, 70-731, 70-732

70-B 47-PIECE BALL BEARING PULLER SET FOR DEEP GROOVE BALL BEARINGS





The 47-piece ball bearing puller set 70-B is used for non-destructive removal of deep groove ball bearings without dismantling the shaft in craft, industry, and workshop. With these pullers, bearings that are simultaneously seated in a housing and on a shaft can be removed easily and quickly, and can be reused if they are not already damaged. The series 70 impresses with its specially designed arms for precise installation into the bearing raceways, which enable the safe removal of small to large bearings.

Benefits

- By storing it in the box, the completeness of the set can be easily overviewed.
- Quick and secure selection by labeling the storage adapters
- In the sentence, in addition to the pullers, there are also the corresponding puller sets and extractor rings, ensuring optimal application at all times

#	4021176	J <u></u>	(50)			i	Components
	EAN	mm/inch		mm/inch	mm/inch	kg/lb	
70-B	-320866	217 - 290 8 9/16 - 11 7/16	6014–6021, 6213–6222, 6312–6317, 6409–6415	45 - 110 1 3/4-4 5/16	110 - 200 4 5/16-7 7/8	19,44 42,865	70-4, 70-4730, 70-4731, 70-4733, 70-4734

SERIES 70-0 BALL BEARING PULLER "PULLPO"



The "PULLPO" ball bearing puller from the series 70 is used for completely non-destructive extraction of deep groove ball bearings without removing the shaft in crafts, industry, and workshops. Even without the possibility of support, the PULLPO can safely extract otherwise inaccessible bearings and thus ensure the reuse of the affected parts. The PULLPO impresses not only with its innovative design but also with its simple application, and the specially developed extractor arms enable a reliable grip during the extraction process and greater removal forces.

Benefits

- The special crossbar design allows for safe, easy hanging and the lever-amplified self-tensioning of the arms (PULLPO Technology)
- Through the collar on the spindle neck, the torque wrench cannot slip during application, allowing for a mark-free removal.
- Four magnets for easy holding of the counter pressure ring

Technical attributes

#	4021176	SW ⊷		Included in the set	COMMINERAL
	EAN	mm/inch	kg/lb		
70-01	-908972	13 1/2	0,4 0,882	K-70-A, K-70-C, K-70-A-C	70-011, 70-012, 70-011-S, 70-012-S
70-02	-909580	17 11/16	1,3 2,867	K-70-B, K-70-C, K-70-B-C	70-021, 70-022, 70-021-S, 70-022-S

SERIES 70-0-S PULLING ARM SET



The pulling arm sets of the 70-0-S series are suitable for ball bearing pullers of the 70-0 series and are used for non-destructive removal of deep groove ball bearings without disassembling the shaft. In addition to the arms, the sets also include stop rings as spare parts.

#	 4021176	L	(50)	i	KOMBINESAR
	EAN	mm/inch		kg/lb	
70-011-S	-181306	70 2 3/4	6000, 6001, 6002, 6003, 6004, 6200, 6201, 6202, 6301	0,125 0,276	70-01
70-012-S	-181313	70 2 3/4	6005, 6006, 6203, 6204, 6205, 6300, 6302, 6303, 6304	0,175 0,386	70-01
70-021-S	-181344	156 6 1/8	6007, 6008, 6009, 6010, 6011, 6012, 6013, 6206, 6210, 6211, 6306, 6307	0,935 2,062	70-02
70-022-5	-181368	156 6 1/8	6014, 6015, 6016, 6017, 6018, 6019, 6020, 6207, 6208, 6209, 6212, 6305, 6308, 6309, 6310, 6311,6403, 6404, 6405, 6406, 6407, 6408	1,16 2,558	70-02

K-70-A 18-PIECE BALL BEARING PULLER SET "PULLPO"



The 18-piece ball bearing puller set "PULLPO" K-70-A is used for completely non-destructive pulling of deep groove ball bearings without removing the shaft in trades, industry, and workshops. Even without the possibility of support, the PULLPO can securely pull otherwise unreachable bearings, thereby ensuring the reuse of the affected parts. The PULLPO not only impresses with its innovative design but also with its easy application, and the specially developed puller arms allow for reliable grip during the pulling process and higher extraction forces. The set includes not only the PULLPO but also matching hooks and rings for appropriate application.

Benefits

- By storing it in the box, the completeness of the set can be easily overviewed.
- The special crossbar design enables secure and easy suspension and the lever-amplifying self-tensioning of the arms (PULLPO Technology)
- Through the collar at the spindle neck, the torque wrench cannot slip during use, allowing for a seamless removal.

Technical attributes

#	4 021176	JĪ	(150)				Components
	EAN	mm/inch		mm/inch	mm/inch	kg/lb	
K-70-A	-058851	70 2 3/4	6000-6006, 6200- 6205, 6300-6304	10 - 30 3/8-1 3/16	26 - 52 1 1/32-2 1/16	1,91 4,212	70-01-T, 70-01-T, 70-011, 70-012, 610120, 70-01-R, 700117

K-70-B 21-PIECE BALL BEARING PULLER SET "PULLPO"



The 21-piece ball bearing puller set "PULLPO" K-70-B is used for completely non-destructive removal of deep groove ball bearings without disassembly of the shaft in crafts, industry, and workshop. Even without the possibility of support, the PULLPO can securely pull otherwise inaccessible bearings and thus ensure the reuse of the affected parts. The PULLPO convinces not only through its innovative design but also through its easy application, and the specially developed puller arms enable a reliable grip during the pulling process and higher extraction forces. The set includes suitable arms and rings for appropriate application, alongside the PULLPO.

Benefits

- By storing it in the box, the completeness of the set can be easily everyioused.
- The special crossbar design enables secure and easy suspension and the lever-amplifying self-tensioning of the arms (PULLPO Technology)
- Through the collar at the spindle neck, the torque wrench cannot slip during use, allowing for a seamless removal.

#	4021176	Jį	(150)			i	Components
	EAN	mm/inch		mm/inch	mm/inch	kg/lb	
К-70-В	-058868	156 6 1/8	6007-6020, 6206- 6212, 6305-6311, 6403-6408	17 - 100 11/16-3 15/16	62 - 150 2 7/16-5 7/8	4,365 9,625	70-02-T, 70-021, 70-022, 614242, 70-02-R, 700217, 70-021-S



K-70-C 38-PIECE BALL BEARING PULLER SET "PULL PO"



The 38-piece ball bearing puller set "PULLPO" K-70-C is used for completely non-destructive removal of deep groove ball bearings without disassembly of the shaft in crafts, industry, and workshops. Even without the possibility of support, the PULLPO can safely remove otherwise inaccessible bearings and thus ensure the reuse of the affected parts. The PULLPO convinces not only with its innovative design but also with its ease of use, and the specially developed puller arms enable a reliable hold during the removal process and higher removal forces. The set includes not only the PULLPO but also suitable arms and rings for appropriate application.

Benefits

- By storing it in the box, the completeness of the set can be easily overviewed.
- The special crossbar design enables secure and easy suspension and the lever-amplifying self-tensioning of the arms (PULLPO Technology).
- Through the collar at the spindle neck, the torque wrench cannot slip during use, allowing for a seamless removal.

Technical attributes

#	4021176	J	(50)				Components
	EAN	mm/inch		mm/inch	mm/inch	kg/lb	
K-70-C	-019999	70 - 156 2 3/4 - 6 1/8	6000-6020, 6200- 6212, 6300-6311, 6403-6408	10 - 100 3/8-3 15/16	26 - 150 1 1/32-5 7/8	7,125 15,711	70-01-T, 70-02-T, 70-011, 70- 012, 70-021, 70-022, 610120, 614242, 70-01-R, 70-02-R, 700117, 700217, 70-021-S

KS-70-A-K 60-PIECE BEARING PULLER SET



The 60-piece ball bearing puller set KS-70-A-K is used for non-destructive removal of deep groove ball bearings without disassembly of the shaft in craft, industry, and workshops. With these pullers, bearings that are simultaneously seated in a housing and on a shaft can be easily and quickly removed and may be reused if they are not already damaged. The series 70 impresses with its specially designed puller arms for precise installation into the bearing raceways, which, depending on the selected set, enable secure removal of small to large bearings. The sets thus allow for a wide range of applications across various groove diameters.

Benefits

- By storing it in the box, the completeness of the set can be easily overviewed.
- Quick and secure selection by labeling the storage adapters
- In the sentence, in addition to the pullers, there are also the corresponding puller sets and extractor rings, ensuring optimal application at all times.

#	######################################	J į̇̃ mm/inch	(50)	mm/inch	mm/inch	lkg/lb	Components
	EAN	mm/mcn		mm/mcn	mm/mcn	kg/lb	
KS-70-A-K	-956362	156 - 233 6 1/8 - 9 3/16	6000–6013, 6200– 6212, 6300–6311, 6403–6408	10 - 100 3/8-3 15/16	26 - 150 1 1/32-5 7/8	9,875 21,774	70-A-K-36, 70-1, 70-2

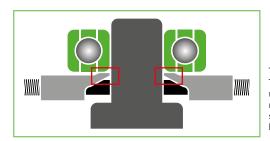
SERIES 13 TRI-PULL WITH 3 SEGMENTS



The three-part puller TRI-PULL of series 13 is used for gentle pulling of pendulum and angular roller bearings in drive engineering. The segments are applied behind the bearing on the inner ring, thereby ensuring an even force transmission across the entire bearing.

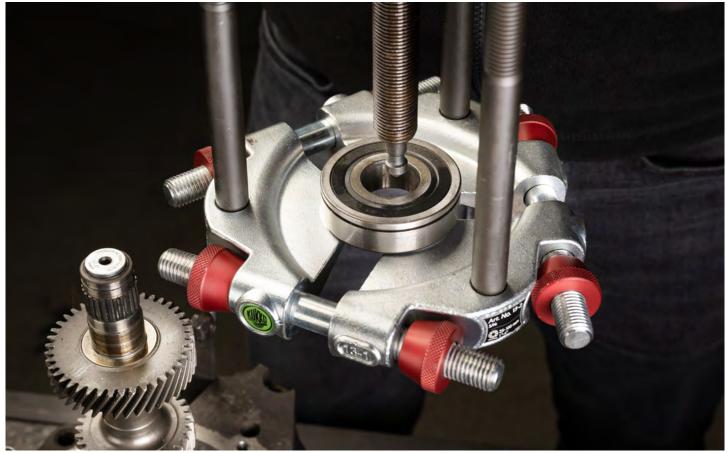
Benefits

- The force-amplifying design of the separator sections on the inner ring protects the bearing from damage during extraction.
- The even distribution of force around the inner ring circumference prevents tilting or misalignment of the bearing ring during removal.
- The sharp edges enable peeling where other peeling methods are not
- By screwing together the separating and pulling device, the highest stability during pulling is ensured.



The lip of the puller device TRI-PULL (series 13) only rests on the bearing inner ring in order to minimise stress on the bearing the bearing as little as possible

#	4021176			F mm	, mm	mm			KOMBIMERBAR
	EAN	mm/inch	nominal dimension	mm/inch	mm/inch	mm/inch	mm/inch	kg/lb	
13-1	-041228	12 - 50 1/2 - 1 15/16	M10	34 1 5/16	4 3/16	9 3/8	13,5 9/16	0,6 1,323	68-1
13-2	-169724	25 - 100 1 - 3 15/16	M14x1,5	63 2 1/2	5,7 1/4	16 5/8	28 1 1/8	3,61 7,960	68-2
13-3	-041235	50 - 160 1 15/16 - 6 5/16	M18x1,5	87 3 7/16	7 1/4	18 11/16	35 1 3/8	7,325 16,152	68-3



The three-part TRI-PULL 13-2 separating device when removing a seized ball bearing

SERIES 222 SEAL RING DISASSEMBLY TOOLS



The seal ring removal tools of series 222 are used for extracting radial shaft seals, axial shaft seals, sealing sleeves, and other bearing seals in crafts, industry, and workshops. Depending on the available space, the pulling process can be carried out either with the extractor lever 222-U or the sliding hammer device with handle 222-S.

Benefits

- The Slide hammers with 2-component Powergrip ensure safe and comfortable working
- The ejector lever can be used universally in situations where the necessary space is available

#	4021176	L				i	Included in the set
	EAN	mm/inch	mm/inch	mm/inch	kg	kg/lb	
222-U	-777790	300 11 13/16			-	0,565 1,246	-
222-S	-018497	650 25 9/16	400 15 3/4	240 9 7/16	0.5	1,265 2,789	K-222-1/7
222-1	-035722	430 16 15/16	400 15 3/4	240 9 7/16	0.5	0,82 1,808	-



Removing a seal ring with the 222-U $\,$

K-222-1/7 7-PIECE SEAL RING PULLER SET (SIMMERRINGE®) IN CASE



The 7-piece seal ring removal set of the series K-222 is used for removing Simmerringe®, radial shaft seals, sealing sleeves, gaskets, bearing seals, and shaft seals in crafts, industry, and workshops. This set includes not only disassembly tools, a pick, and a special screw set but also various extensions and handles, ensuring optimal removal work. The K-222 series impresses with its variety of applications and universality for use in different sectors and problem situations.

Benefits

- Depending on the available space, suitable tools with sliding hammer are also available in the set.
- The two-component handle allows for safe and careful work.

#	4021176	L ←───					Components
	EAN	mm/inch	mm/inch	mm/inch	kg	kg/lb	
K-222-1/7	-222757	300 11 13/16	400 15 3/4	240 9 7/16	0.5	2,895 6,383	222-1, 222-U, 222-S, 222-1-100, 222- 1-250, 222-1-50S, 222-E, 222-P



Removing a radial shaft seal with the 222-1





MULTI-TRAVERSE WITH POWER NUT

The new Multi-Traverse of the series 68 offers space for up to four foot bolts. This guarantees a larger contact area and consequently a more uniform distribution of forces.

Three small magnets are attached underneath the traverse, which are used to align and fix the power groove.

The Power Nut by KUKKO guarantees a more energy-saving clamping of tools and workpieces as well as drive without significant friction loss.

INCREASED TENSION FORCE



The Power Nut is located above the crossbar. By turning the Power Nut, the spindle is pulled upwards with increased force until the cylinder socket is drawn out.

INCREASED PRESSURE FORCE



The Power Nut is located below the crossbar. By operating the hexagon, the spindle is pressed down. In the process, the Power Nut amplifies the applied force multiple times.

SERIES 68 2-ARM PULLER DEVICE



Technical attributes

The combination puller devices of series 68 with Power Nut are combinable with separation devices of series 13, internal extractors of series 21, ball bearing puller sets of series 69, and other parts (e.g. hooks or oil hooks). Due to the different positioning options of the Power Nut, the devices are suitable for both pushing and pulling of components in craft, industry, and workshop. The multi-crossbar offers space for two, three, or four foot bolts depending on the application. This ensures a larger support area and thus a more uniform distribution of force. Below the crossbar, three small magnets are attached, which are used to align and fix the Power Nut. The puller devices 18-00 and 18-0 do not include a Power Nut.

Benefits

- By screwing the separator and puller device, the highest stability when pulling is ensured.
- The foot bolts ensure a particularly firm standing when pulling off.
- Multi-Traverse with scale as adjustment aid for the foot bolts
- Due to its simple design, special separating devices can also be easily created in-house for series 68.

#	######################################	mm/inch	† ∰ mm/inch	sw mm/inch	Mm/ft lb	Max. tensile force kN	Max. tractive force t/US t. sh.	kg/lb	COMBNESSAR
68-0 NEW	-446641	20 - 110 13/16 - 4 5/16	75 2 15/16	13 1/2	40 29.50	15	1.5 1.65	0 0,000	-
68-10 NEW	-009440	55 - 150 2 3/16 - 5 7/8	230 9 1/16	19 3/4	100 73.76	50	5 5.51	0 0,000	-
68-1	-007385	58 - 150 2 5/16 - 5 7/8	160 6 5/16	13 1/2	70 51.63	50	5 5.51	1,555 3,429	19-1-S, 13-1
68-2	-007392	68 - 244 2 11/16 - 9 5/8	280 11 1/32	22 7/8	120 88.51	70	7 7.72	5,25 11,576	19-2-S, 13-2
68-3	-007408	75 - 310 2 15/16 - 12 3/16	330 12 1	27 1 1/16	280 206.53	100	10 11.02	0 0,000	19-3-S, 13-3

SERIES 19-S PULLER DEVICE EXTENSION SET



The extensions for puller devices are used together with the combination puller devices of series 68 in craft, industry, and workshops to increase the reach of the puller device. The extensions are available in various lengths in the set (3 pieces).

Benefits

• The extensions are combinable with each other, allowing for optimal adjustment to the required reach.

#	 4021176		\$\$ 6	L ←—→	sw 	i
	EAN	nominal dimension	mm/inch	mm/inch	mm/inch	kg/lb
19-1-S	-060816	M10	14 9/16	100 3 15/16	12 1/2	0,345 0,761
19-2-S NEW	-042096	M14x1,5	22 7/8	100 3 15/16	19 3/4	0,8325 1,836
19-3-S NEW	-042102	M18x1,5	22 7/8	100 3 15/16	19 3/4	0,9825 2,166

K-68-A MULTI-ARM BOLT PULLER SET



The multi-side bolt puller set K-68-A is used for pulling components with threaded holes. The multi-crossbar allows for the attachment of up to three foot bolts for even more uniform force distribution. For precise adjustment assistance, a scale with numerical values is located above the crossbar. For individual adaptation to the shaft, different pressure pieces can be used.

Benefits

- The set includes a large number of common standard threads for customising the extractor
- The multi-traverse of series 68 allows for the removal over two or three threads in the component to be disassembled.
- The sentence is equipped with side bolts and can thus be combined with separating knives and Tri-Pull tools.

Technical attributes

#	4021176			SW 	Max. tensile force	Max. tractive force			Components
	EAN	mm/inch	mm/inch	mm/inch	kN	t/US t. sh.		kg/lb	
K-68-A NEW	· -009136	100 3 15/16	20 - 110 13/16 - 4 5/16	13 1/2	15	1.5 1.65	M4, M5, M6, 1/4"-28 UNF	0 0,000	68-0

K-68-B MULTI-SIDE BOLT PULLER SET



The multi-way puller set K-68-B is used for removing components with threaded holes. A power nut integrated into the crossbar allows for the application of force that would otherwise only be achievable with hydraulic systems. The multi-crossbar enables the attachment of up to three side bolts for even more uniform force distribution. Above the crossbar, there is a scale with numerical values for precise adjustment. For individual adaptation to the shaft, various pressure pieces can be used.

Benefits

- The set includes a wide range of common standard threads for adapting the puller
- The multi-traverse of the 68 series enables extraction via two or three threads in the component to be removed
- The set is equipped with side bolts and can therefore be combined with cut-off knives and Tri-Pull tools

#	######################################	mm/inch	mm/inch	sw mm/inch	Max. tensile force kN	Max. tractive force t/US t. sh.		kg/lb	Components
K-68-B NEW	-009143	205 8 1/16	58 - 150 2 5/16 - 5 7/8	13 1/2	50	5 5.51	M8, M10, 1/4"-28 UNF, 5/16"-24 UNF, 5/16"-18 UNC, 3/8"-16 UNC, 3/8"- 24 UNF	6,9 15,215	68-1

K-68-C MULTI-SIDE BOLT PULLER SET



The Multi-Sided Bolt Puller Set K-68-C is used to pull components with threaded holes. A power nut integrated into the crossbar allows for applied force that would otherwise only be achievable with hydraulic systems. The multi-crossbar allows for the attachment of up to three side bolts for an even more uniform distribution of force. For precise adjustment assistance, there is a scale with numerical values above the crossbar. Various pressure pieces can be used for individual adaptation to the shaft.

Benefits

- The set includes a wide range of common standard threads for adapting the puller
- The multi-traverse of series 68 allows for the removal over two or three threads in the component to be disassembled.
- The sentence is equipped with side bolts and can thus be combined with separating knives and Tri-Pull tools.
- The set includes outer and inner arms, which can be combined with side bolts

Technical attributes

#	4021176	Ħį	<u> </u>	SW	Max. tensile force	Max. tractive force		i	Components
	EAN	mm/inch	mm/inch	mm/inch	kN	t/US t. sh.		kg/lb	
K-68-C NEW	-009150	270 10 5/8	55 - 150 2 3/16 - 5 7/8	19 3/4	50	5 5.51	M10, M12, M14, 3/8"-16 UNC, 3/8"-24 UNF, 7/16"- 14 UNC, 1/2"-13 UNC	0 0,000	68-10

29-A-69 12-PIECE UNIVERSAL PULLER, EXTRACTOR, AND BALL BEARING PULLER SET



The 8883-piece universal puller, separator, and ball bearing puller set from series 29-A-69 is used for the easy and trouble-free removal of bearings, drums, discs, pole wheels, and similar parts on motorcycles and other small engines in craft, industry, and workshops. For separation and pulling, the separator device from series 15 is suitable, whose sharp edges allow for pulling where other pulling methods are inapplicable. While the affected ball bearing cannot be reused during ball bearing extraction with the included series 69, the application ensures the safety and integrity of the associated housing or shaft.

Benefits

- By storing it in the box, the completeness of the set can be easily overviewed.
- Quick and secure selection by labeling the storage adapters
- The screw connection of the separator and puller device ensures the highest stability during extraction.

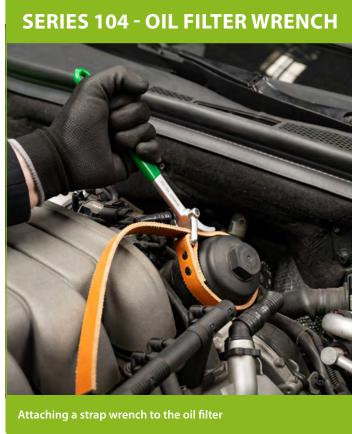
#	######################################	(150)	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	SW mm/inch	Max. tensile force kN	Max. tractive force t/US t. sh.	kg/lb	Compo- nents
29-A-69	-101878	6004, 6005, 6006, 6007, 6008, 6009, 6010, 6011, 6012, 6013, 6201, 6202, 6203, 6204, 6205, 6206, 6300, 6301, 6302, 6303, 6304, 6305	200 7 7/8	20 - 110 13/16 - 4 5/16	6 - 46 1/4 - 1 13/16	20 - 100 13/16 - 3 15/16	200 7 7/8	12 1/2	15	1.5 1.65	2,2 4,851	69-A, 225-150, 15-00



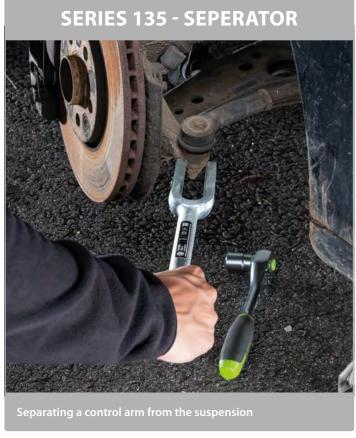
KUKKO offers a wide range of dismantling tools for various applications, whether it's for extracting a stud bolt, removing a seal ring, or driving out pins. Various models of wiper pullers, wedge pullers, oil filter wrenches, and brake tools are also provided as essential tools for the automotive industry.

APPLICATION EXAMPLES









SERIES 23 PULLER FOR GROOVE BALL BEARING INNER RINGS



The puller of the series 23 is used for pulling off shoulder bearing inner rings on alternators and electric motors in craftsmanship, workshops, and industry. This pulling device allows parts to be pulled off in a way that they can be grasped due to its design. The series 23 convinces with its stability and ease of use, and thus ensures safe pulling.

Benefits

- Crisis-proof tool perfect for the repair of various electric motors
- Ideal for removing deep bearings and shoulder bearing rings



Technical attributes

#	4 021176	<u>o</u>	SW	i	Included in the set
	EAN	mm/inch	mm/inch	kg/lb	
23	-012631	5 - 32	17	1,42	24-B, 24-C
		3/16 - 1 1/4	11/16	3,131	

SERIES 139 PULLING PLIERS FOR WEDGES IN GROOVES



The wedge extracting pliers in grooves is used for the easy and damage-free removal of stuck wedges from the key grooves of shafts in crafts, industry, and workshops. With the pliers, it is possible to loosen even strongly secured wedges from the key grooves of drive shafts. The series 139 impresses with its compactness and simple application method. Its construction is ideal for use on electric motors.

Benefits

- The adjustable span of the clamping arms allows for variable application depending on the size of the stuck wedge.
- The handwheels for adjustment make the addition of external tools unnecessary.

#		lH	+ <u>(11)</u> -1		
	EAN	mm/inch	mm/inch	mm/inch	kg/lb
139-1	-779176	0 - 35 0 - 1 3/8	122 4 13/16	4 3/16	2,5 5,513

SERIES 135 SEPARATOR



The fork separators of series 135 are used for loosening ball pivot joints that are wedged in the cone seat, for loosening steering levers, for disassembling shock absorbers, and for other separation work of all kinds in automotive and industry. Their universal applicability makes the fork separators an important companion for disassembly and separation tasks.

Benefits

• The set includes sizes with various arm openings for use in every case.

Technical attributes

#		←	Ð	i
	EAN	mm/inch	mm/inch	kg/lb
135-1	-024856	310 12 3/16	18 11/16	0,74 1,632
135-2	-024931	316 12 7/16	23 7/8	0,8 1,764
135-3	-025013	319 12 9/16	29 1 1/8	0,815 1,797
135-4	-025198	335 13 3/16	39 1 9/16	1,465 3,230
135-5	-220531	340 13 3/8	45 1 3/4	1,28 2,822

SERIES 177-HP PICKS & HOOKS WITH 2K COMFORT GRIP IN SET



The Picks & Hooks with 2K comfort grip in the set are used for loosening stuck seal rings, separating cables in a wiring harness, and other tasks in sanitation and automotive. The Picks & Hooks of series 177 allow for sensitive and powerful working due to their two-component grip and high-quality processing.

Benefits

- · Application-oriented assembly for universal use
- Through storage in the set, the completeness of the set can be easily overviewed.
- Thanks to the rotary cap and fast rotation zone, the two-component handle allows for safe and comfortable one-handed operation.
- The narrow handle also allows working in tight and hard-to-reach places.

Technical attributes #		L ← →	Ø	 ←→	i
	EAN	mm/inch	mm/inch	mm/inch	kg/lb
177-HP04	-158132	155 6 1/8	3,5 1/8	70 2 3/4	0,1 0,221



SERIES 177-P PICKS WITH 2K COMFORT GRIP



The picks and hooks with 2K comfort grip are used for releasing stuck sealing washers, separating wires in a cable harness, and for other tasks in sanitation and automotive. The picks & hooks of the series 177 enable sensitive and powerful work due to their two-component handle and high-quality craftsmanship.

Benefits

- Thanks to the rotating cap and quick-turn zone, the two-component handle allows for safe and comfortable one-handed operation.
- The narrow grip also allows work in tight and hard-to-reach places

Technical attributes

#		L	Ø		i
	EAN	mm/inch	mm/inch	mm/inch	kg/lb
177-P000	-017538	155 6 1/8	3,5 1/8	70 2 3/4	0,15 0,331
177-P045	-017545	155 6 1/8	3,5 1/8	70 2 3/4	0,2 0,441
177-P090	-017552	155 6 1/8	3,5 1/8	70 2 3/4	0,015 0,033

SERIES 177-H HOOK



The hooks with 2K comfort grip are used for loosening stuck sealing washers, separating cables in a wiring harness, and other tasks in sanitary and automotive applications. The picks & hooks of series 177 enable a sensitive as well as powerful operation due to their two-component handle and high-quality workmanship.

Benefits

- Thanks to the rotary cap and quick rotation zone, the two-component handle allows for safe and comfortable work even with one hand.
- The narrow handle also allows for working in tight and hard-to-reach places

#	 	L ←──→	Ø		
	EAN	mm/inch	mm/inch	mm/inch	kg/lb
177-H000	-017521	155 6 1/8	3,5 1/8	70 2 3/4	0,015 0,033

SERIES 728-A RETAINING RING PLIERS FOR EXTERNAL RINGS, STRAIGHT



The retaining ring pliers for external rings are used for the assembly and disassembly of retaining rings on shafts in crafts, industry, and workshops. The simple yet powerfully forged design allows for safe and quick operation in any application case. The series 728 impresses with its versatility. Depending on the diameter of the external ring, the retaining ring pliers are available in various sizes, allowing for a case-oriented approach.

Benefits

- The tips are stable and slip-resistant; even in hard-to-reach places, you can work comfortably with the pliers.
- The plier body and the tips are oil-hardened and made of chromevanadium steel, offering high durability and resilience.
- The shape provides an unobstructed view of the work peaks.

Technical attributes

#		L ←——→	O	i	Included in the set
	EAN	mm/inch	mm/inch	kg/lb	
728K-A0	-004346	135 5 5/16	3-10 1/8-3/8	0,1 0,221	-
728K-A1	-004384	135 5 5/16	10-25 3/8-1	0,95 2,095	728K-729
728K-A2	-004421	180 7 1/16	19 - 60 3/4-2 3/8	0,18 0,397	728K-729
728K-A3	-004469	225 8 7/8	40 - 100 1 9/16-3 15/16	0,315 0,695	-

SERIES 728-A-1 RETAINING RING PLIERS FOR EXTERNAL RINGS, BENT



The circlip pliers for external rings are used for the assembly and disassembly of circlips on shafts in crafts, industry, and workshops. The simple yet powerfully forged design allows for safe and quick work in any application. The series 728 impresses with its variability. Depending on the diameter of the external ring, the circlip pliers are available in various sizes, allowing for a situation-oriented approach.

Benefits

- The tips are stable and slip-resistant; even in hard-to-reach places, you can work comfortably with the pliers.
- The pivot and the tips are oil-hardened, forged from chromevanadium steel, and possess high durability and toughness.
- The form provides an unobstructed view of the work peaks.

#	 4021176	- L	O	i	Included in the set
	EAN	mm/inch	mm/inch	kg/lb	
728K-A01	-004360	135 5 5/16	3-10 1/8-3/8	0,095 0,209	-
728K-A11	-004407	135 5 5/16	10-25 3/8-1	0,1 0,221	728K-729
728K-A21	-004445	180 7 1/16	19 - 60 3/4-2 3/8	0,19 0,419	-
728K-A31	-004490	225 8 7/8	40 - 100 1 9/16-3 15/16	0,31 0.684	-

SERIES 729-J RETAINING RING PLIERS FOR INTERNAL RINGS, STRAIGHT



The retaining ring pliers for internal rings are used for the assembly and disassembly of retaining rings in holes in crafts, industry, and workshops. The simple yet powerfully forged design allows for safe and fast work in every application. The 729 series impresses with its variability. Depending on the diameter of the internal ring, the retaining ring pliers are available in different sizes, allowing for a task-oriented approach.

Benefits

- The tips are stable and anti-slip; even in hard-to-reach places, you can work comfortably with the pliers.
- The pivot and the tips are oil-hardened, forged from chromevanadium steel, and possess high durability and toughness.
- The form provides an unobstructed view of the work peaks.

Technical attributes

#		L ← →	O	i	Included in the set
	EAN	mm/inch	mm/inch	kg/lb	
729K-J0	-004513	135 5 5/16	8-13 5/16-1/2	0,085 0,187	-
729K-J1	-004568	135 5 5/16	10-25 3/8-1	0,085 0,187	728K-729
729K-J2	-004605	180 7 1/16	19 - 60 3/4-2 3/8	0,155 0,342	728K-729
729K-J3	-004650	225 8 7/8	40 - 100 1 9/16-3 15/16	0,3 0,662	-

SERIES 729-J-1 RETAINING RING PLIERS FOR INTERNAL RINGS, BENT



The retaining ring pliers for internal rings are used for the assembly and disassembly of retaining rings in bores in crafts, industry, and workshops. The simple yet robustly forged design allows for safe and quick work in any application. The series 729 impresses with its versatility. Depending on the diameter of the internal ring, the retaining ring pliers are available in various sizes, allowing for an application-oriented approach.

Benefits

- The tips are stable and slip-resistant; even in hard-to-reach places, you can work comfortably with the pliers.
- The pivot and the tips are oil-hardened, forged from chromevanadium steel, and possess high durability and toughness.
- The form provides an unobstructed view of the work peaks.

#	4021176	L	O	i	Included in the set
	EAN	mm/inch	mm/inch	kg/lb	
729K-J01	-004537	135 5 5/16	8-13 5/16-1/2	0,9 1,985	-
729K-J11	-004582	135 5 5/16	10-25 3/8-1	0,085 0,187	728K-729
729K-J21	-004629	180 7 1/16	19 - 60 3/4-2 3/8	0,16 0,353	728K-729
729K-J31	-004674	225 8.7/8	40 - 100 1 9/16-3 15/16	0,31 0.684	-

728K-729 8-PIECE RETAINING RING PLIERS SET



The 8-piece retaining ring pliers set is used for the assembly and disassembly of retaining rings on shafts and in bores in craft, industry, and workshop. The simple yet powerfully forged shape of the various retaining ring pliers allows for safe and quick work in any application case. Depending on the diameter and location of the retaining ring, the set includes various sizes and shapes, enabling the user to work in a case-oriented manner.

Benefits

- The pivot and the tips are oil-hardened, forged from chromevanadium steel, and possess high durability and toughness.
- The shape provides an unobstructed view of the work peaks.
- Application-oriented compilation for universal use

#	4021176	L	O _Ø		Components
	EAN	mm/inch	mm/inch	kg/lb	
728K-729	-004322	135 - 180 5 5/16-7 1/16	10 - 60 3/8-2 3/8	1,17 2,580	728K-A1, 728K-A2, 728K- A11, 729K-J1, 729K-J2, 729K- J11, 729K-J21, 728K-A21



A pair of pliers from the circlip pliers set 728K-729 is used to remove a stuck circlip

SERIES 720 PIN PUNCH



The pin punch of the series 720 is used for driving out pins and similar parts in crafts, industry, and workshops. The pin punch is available in various tip diameters and shank lengths, thereby allowing the choice of the optimal tool depending on the application case.

Benefits

- The specially tempered extra chrome-vanadium steel and the chromeplated surface ensure a long service life and reduced arm formation.
- The curved shape of the handle ensures an optimal grip and prevents slipping, providing particularly safe work conditions.
- The various sizes have a color coding and can be easily distinguished.

Technical attributes

#	4 021176	L	Ø		Ø	i
	EAN	mm/inch	mm/inch	mm/inch	mm/inch	kg/lb
720-002	-103216	150 5 7/8	2 1/16	42 1 5/8	11 7/16	0,065 0,143
720-003	-103230	150 5 7/8	3 1/8	44 1 3/4	11 7/16	0,065 0,143
720-004	-103247	150 5 7/8	4 3/16	45 1 3/4	11 7/16	0,07 0,154
720-005	-103254	150 5 7/8	5 3/16	48 1 7/8	11 7/16	0,067 0,148
720-006	-103261	150 5 7/8	6 1/4	48 1 7/8	11 7/16	0,07 0,154
720-008	-103278	150 5 7/8	8 5/16	49 1 15/16	11 7/16	0,078 0,172

SERIES 720-S PIN PUNCH SET



The pin punch set of series 720 is used for driving out pins and similar parts in crafts, industry, and workshops. The set includes pin punches in six different diameters, allowing for the selection of the optimal tool depending on the application.

Benefits

- Application-oriented assembly for universal use
- Thanks to color coding, the pin punches can be easily distinguished.
- The specially coated extra chrome-vanadium steel and the chromeplated surface ensure a long service life and reduced arm formation.
- The curved shape of the handle ensures optimal grip and prevents slipping, thus guaranteeing particularly safe operation.

#	4021176	L ←→	Ö		[] [:]ø	
	EAN	mm/inch	mm/inch	mm/inch	mm/inch	kg/lb
720-028	-058714	150 5 7/8	2, 3, 4, 5, 6, 8 1/16, 1/8, 3/16, 3/16, 1/4, 5/16	42, 44, 45, 48, 48, 49 1 5/8, 1 3/4, 1 3/4, 1 7/8, 1 7/8, 1 15/16	11 7/16	0,75 1,654

SERIES 50 STUD EXTRACTOR WITH INTERNAL TOOTHING



The stud extractor with internal teeth from series 50 is used for extracting stud bolts or broken parts in automotive and industrial applications. Kukko stud extractors are available in various diameters and designs. The series 50 impresses with its particularly proven and robust design, especially under high stress.

Benefits

- The knurled wheel with a groove presses the stud bolt securely against the internal gearing.
- The stud bolt is in the area of the key during the extraction and cannot break off.
- The extra profiled knurled wheel has a surface for a secure grip.





Technical attributes

#	 	sw 	±.'(diff_Tiff)	i
	EAN	mm/inch	mm/inch	kg/lb
50-1	-019258	17 11/16	5 - 10 3/16-3/8	0,115 0,254
50-2	-019333	27 1 1/16	8 - 19 5/16-3/4	0,43 0,948
50-3	-019418	36 1 7/16	18 - 25 11/16-1	0,585 1,290

SERIES 51 STUD EXTRACTOR WITH INTERNAL PROFILE



The stud extractor with internal toothing of series 51 is used for extracting studs or broken components in the automotive and industrial sectors. Kukko stud extractors are available in various diameters and designs. The series 51 impresses with its handy and cost-effective design.

Benefits

- The knurled wheel with a groove securely presses the stud bolt against the internal teeth.
- The stud bolt is in the area of the key during the extraction and cannot break off.
- The extra profiled knurled wheel has a surface for a firm grip.





#		sw 		i
	EAN	mm/inch	mm/inch	kg/lb
51-1	-019586	19 3/4	5 - 10 3/16-3/8	0,355 0,783
51-2	-019661	19 3/4	8 - 19 5/16-3/4	0,37 0,816
51-3	-019746	19 3/4	18 - 25 11/16-1	0,52 1,147



SERIES 52 STUD EXTRACTOR WITH LARGE **CLAMPING RANGE**



The stud extractor with internal gearing from series 52 is used for extracting stud bolts or broken components in automotive and industrial applications. Kukko stud extractors are available in various diameters and designs. The series 52 has an especially large clamping range and allows for the grasping of short stud bolt ends due to the deep arrangement of the knurled wheel.

Benefits

- The knurled wheel with a groove securely presses the stud bolt against the internal teeth.
- The stud bolt is in the area of the key during the extraction and cannot break off.
- The extra profiled knurled wheel has a surface for a firm grip.

#		SW →	£.Canal man	
	EAN	mm/inch	mm/inch	kg/lb
52	-019821	19 3/4	5 - 19 3/16-3/4	0,525 1,158



SERIES 53 STUD EXTRACTOR FOR TIGHT SPACES



The stud extractor with internal toothing of series 53 is used for extracting stud bolts or broken components in automotive and industry. Kukko stud extractors are available in different diameters and designs. The series 53 can also be used in very confined spaces due to its design and is operated using a ring or socket wrench.

Benefits

- The knurled wheel with a groove securely presses the stud bolt against the internal teeth.
- During the extraction, the stud bolt is located in the area of the key and cannot break off.
- The extra profiled knurled wheel has a surface for a firm grip.

Technical attributes

#	4 021176			######################################	SW ↓	 		Included in the set
	EAN	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	kg/lb	
53-5	-137860	65	24	5	21	12,7	0,15	-
		2 9/16	15/16	3/16	13/16	1/2	0,331	
53-6	-342318	60	25	6	21	12,7	0,12	53-A
		2 3/8	1	1/4	13/16	1/2	0,265	
53-7	-866234	65	24	7	21	12,7	0,155	-
		2 9/16	15/16	1/4	13/16	1/2	0,342	
53-8	-342493	60	25	8	21	12,7	0,155	53-A
		2 3/8	1	5/16	13/16	1/2	0,342	
53-10	-342561	71	28	10	21	12,7	0,22	53-A
		2 13/16	1 1/8	3/8	13/16	1/2	0,485	
53-12	-342646	71	28	12	21	12,7	0,83	53-A
		2 13/16	1 1/8	1/2	13/16	1/2	1,830	
53-14	-984563	72	36	14	24		0,34	-
		2 13/16	1 7/16	9/16	15/16		0,750	
53-16	-388774	72	36	16	24		0,31	-
		2 13/16	1 7/16	5/8	15/16		0,684	
53-18	-137846	100	48	18	36		0,835	-
		3 15/16	1 7/8	11/16	1 7/16		1,841	
53-20	-745591	100	48	20	36		0,82	-
		3 15/16	1 7/8	13/16	1 7/16		1,808	
53-22	-971082	100	48	22	36		0,73	-
		3 15/16	1 7/8	7/8	1 7/16		1,610	
53-24	-966774	100	48	24	36		0,795	-
		3 15/16	1 7/8	15/16	1 7/16		1,753	
53-30	-966781	125	63	30	46		1,66	-
		4 15/16	2 1/2	1 3/16	1 13/16		3,660	

SERIES 53-A STUD EXTRACTOR SET FOR TIGHT SPACES



The stud extractor set of series 53 is used for extracting stud bolts or broken components in automotive and industry applications. Kukko stud extractors are available in various diameters and designs. The series 53 can also be used in the tightest spaces due to its design and is operated with a ring or socket wrench. The set includes 4 different extractors with various diameters from 6-12 mm.

Benefits

- Application-oriented assembly for universal use
- The knurled wheel with a groove securely presses the stud bolt against the internal toothing.
- During extraction, the stud bolt is located in the area of the key and cannot break.

#	4 021176			© THE STATE OF T	sw 	[————————————————————————————————————		Components
	EAN	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	kg/lb	
53-A	-222801	24-28 15/16-1 1/8	65-75 2 9/16-2 15/16	6, 8, 10, 12 1/4, 5/16, 3/8, 1/2	21 13/16	12,7 1/2	0,715 1,577	53-6, 53-8, 53-10, 53-12







AUTOMOTIVE

Whether for removing wet cylinder liners, pressing ball joints, pulling wheel hubs, steering wheels, wiper arms, camshafts or steering column levers, spreading piston rings, during the disassembly of oil filters, and for the removal and tensioning of coil springs – KUKKO offers the perfect solution for every application.

The automotive range includes among others:

- Cylinder liner pullers
- Ball joint presses
- Hub pullers
- Steering wheel pullers
- Wiper arm pullers
- Camshaft pullers
- Steering column lever pullers
- Piston ring pliers
- Oil filter wrenches
- Coil spring compressors



DEPLOYMENT

Ball joints are found in vehicles both in the axle suspension and in the steering. Ball joints are subjected to heavy loads, which causes the ball heads to wear over time. This leads to play in the joints, which can affect steering and driving safety. At the latest, a replacement of the ball joints is urgently necessary. To disassemble ball joints without damage, KUKKO offers the optimal tools with 🚗 series 128 and 129.



FEATURES OF THE SERIES

SERIES 127



Universal Joint Puller

The bell-shaped direct press ball joint puller of series 127 is used for pushing out the ball pins when removing ball joints as well as tie rod ends on tie rods in automotive and industry applications. The puller allows for damage-free working and is optimal when space is limited.

Benefits

Due to its simple yet effective design, the Direct Pull Ball Joint Puller is especially suitable for quick and uncomplicated applications.

SERIES 128



Puller with direct pressure

The bell-shaped ball joint puller of series 128 is used to press out the ball pins when removing ball joints and tie rod ends from tie rods for all vehicle types. The puller allows for damage-free working and is optimal when there is plenty of space available.

Benefits

Due to its simple yet effective design, the direct pull spherical joint puller is particularly suitable for quick and uncomplicated applications.



Ball Joint Separator for Passenger Cars

The ball joint puller with lever transmission of the series 129 is used to press out the ball pins when removing ball joints as well as tie rod ends on tie rods for cars and light commercial vehicles. Due to its lever transmission, the ball joint puller can apply a lot of force even where there is barely any access space.

Benefits

SERIES 135



Separator

The separating forks of the series 135 are used for loosening ball joint fittings jammed in the cone seat, for loosening steering rods, for disassembling shock absorbers, and for other separation tasks of all kinds in automotive and industry.

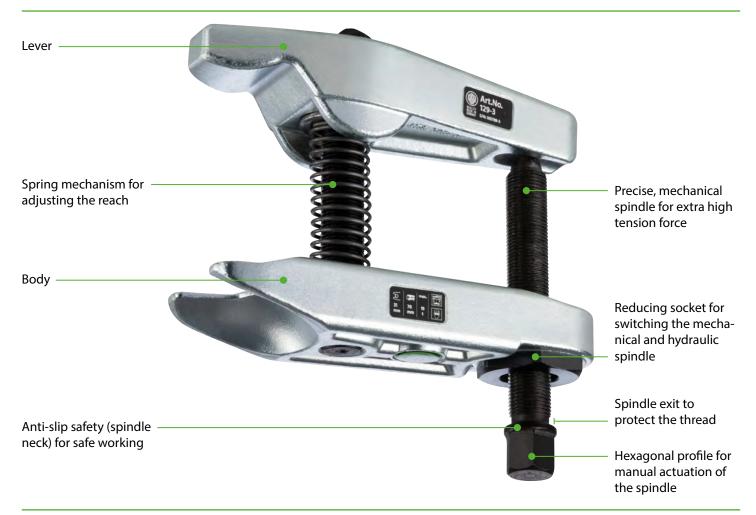
Benefits

The assortment includes sizes with different fork holes for use in every case.

ASSEMBLY OF SERIES 128



ASSEMBLY OF THE SERIES 129



In case of particularly stubborn components, the mechanical spindle can easily be replaced with a hydraulic spindle, achieving a medium tension force of up to 20 t.







Benefits:

- The hydraulic spindle guarantees easy and controlled removal of particularly stuck parts with low effort.
- Hydraulic spindle doubles the manual extraction force by 100%
- · Handy format for quick, portable use
- Thanks to integrated fat-hydraulic, no external pump is required.





Fall protection 660







APPLICATION EXAMPLES



Separation of a tie rod from the suspension



The ball joint puller 128-60 when pressing a steering track end on a tie rod in a workshop



The spherical joint puller 129-3 when pressing out a tie rod end in a workshop

SERIES 127-0 DIRECT PRESS BALL JOINT PULLER



The bell-shaped direct press ball joint puller of series 127 is used to press out the ball pins when removing ball joints as well as tie rod ends on tie rods in automotive and industry. The puller allows for damage-free work and is optimal when there is little space available.

Benefits

• Due to its simple yet effective design, the direct puller ball joint remover is particularly suitable for quick and uncomplicated application.

Technical attributes

#	4 021176	ф	P	Max. tensile force	Max. tractive force	sw ⊷	
	EAN	mm/inch	Nm/ft lb	kN	t/US t. sh.	mm/inch	kg/lb
127-2	-123290	33,5 1 5/16	120 88.51	70	7 7.72	17 11/16	1,38 3,043
127-3	-981784	34 1 5/16	140 103.26	100	10 11.02	19 3/4	0,965 2,128
127-4	-123306	37 1 7/16	120 88.51	70	7 7.72	17 11/16	1,33 2,933
127-55	-007156	32 1 1/4	120 88.51	70	7 7.72	17 11/16	2,45 5,402

SERIES 128 BELL-SHAPED BALL JOINT PULLER



The bell-shaped ball joint puller of series 128 is used for pressing out the ball studs when disassembling ball joints and tie rod ends on tie rods for all vehicle types. The puller allows for damage-free work and is optimal when there is plenty of space available. The series 128 impresses with its fast and easy operating method and is available in various sizes.

Benefits

• Due to its simple yet effective design, the direct puller ball joint remover is particularly suitable for quick and uncomplicated application.

#	 	ţ	P	Max. tensile force	Max. tractive force	SW		Included in the set
	EAN	mm/inch	Nm/ft lb	kN	t/US t. sh.	mm/inch	kg/lb	
128-1	-024108	18 11/16	80 59.01	70	7 7.72	17 11/16	0,34 0,750	K-127-A/6
128-2	-024283	23 7/8	120 88.51	70	7 7.72	17 11/16	0,52 1,147	-
128-3	-024368	29 1 1/8	140 103.26	100	10 11.02	19 3/4	0,94 2,073	-
128-4	-024443	40 1 9/16	250 184.40	100	10 11.02	24 15/16	1,715 3,782	-
128-5	-024511	46 1 13/16	250 184.40	100	10 11.02	24 15/16	1,84 4,057	-
128-6	-007002	55 2 3/16	0.00	-	0.00		0 0,000	-

The bell-shaped ball joint puller of series 128 is used to press out the ball studs when removing ball joints and tie rod ends on tie rods in automotive and industry applications. The puller allows for damage-free working and is optimal when there is plenty of space available. The series 128 im-

presses with its quick and easy operation and is available in various sizes.



SERIES 128-0 BELL-SHAPED BALL JOINT PULLER



Benefits

- Due to its simple yet effective design, the direct print ball joint puller is particularly suitable for quick and uncomplicated application.
- The ball joint pullers can be used hydraulically together with the YSM series lift cylinder.

#	4021176	ф	P	Max. tensile force	Max. tractive force	SW →	
	EAN	mm/inch	Nm/ft lb	kN	t/US t. sh.	mm/inch	kg/lb
128-30	-006937	30 1 3/16	150 110.64	100	10 11.02	22 7/8	1,5 3,308
128-40	-006968	39 1 9/16	150 110.64	100	10 11.02	22 7/8	4,225 9,316
128-50	-006982	46 1 13/16	150 110.64	100	10 11.02	22 7/8	0 0,000
128-60	-007019	55 2 3/16	150 110.64	100	10 11.02	22 7/8	0 0,000



The ball joint puller 128-60 when pressing out a tie rod end on a track rod

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SERIES 128-H HYDRAULIC BALL JOINT PULLER



The bell-shaped hydraulic ball joint puller from series 128-H is used for pressing out ball pins when removing ball joints and tie rod ends on tie rods in automotive and industry applications. The puller allows for non-damaging work and is optimal when there is plenty of space available. The 128 series impresses with its fast and easy operation and is available in various sizes. The grease hydraulic spindle achieves an average pulling force of up to 15 t.

Benefits

- Due to its simple yet effective design, the direct-print ball joint puller is particularly suitable for quick and uncomplicated application.
- The hydraulics ensure a force-saving and safe operation.

Technical attributes

#	#021176	ф	P	Max. tensile force	Max. tractive force	SW 	i
	EAN	mm/inch	Nm/ft lb	kN	t/US t. sh.	mm/inch	kg/lb
128-30-H	-006944	30 1 3/16	70 51.63	150	15 16.53	19 3/4	2,1 4,631
128-40-H	-006975	39 1 9/16	70 51.63	150	15 16.53	19 3/4	2,1 4,631
128-50-H	-006999	46 1 13/16	70 51.63	150	15 16.53	19 3/4	4,9 10,805
128-60-H	-007026	55 2 3/16	70 51.63	150	15 16.53	19 3/4	5 11,025

SERIES 128-T-4 KUKKO SYSTEM FOR REPAIR WORK ON VW T4 TRAILING JOINTS



The KUKKO system for repair work on the ball joint of series 128 is used for the installation and removal of the ball joints on the T4 in automotive and industry. The system allows for damage-free operation and is optimal when there is plenty of space available. The series 128 impresses with its fast and simple working method and is available in various sizes. This version was specifically developed for applications on the VW T4.

Benefits

- Two additional spacer plates of 40 mm and 46 mm are included.
- Due to its simple yet effective design, the system is particularly suitable for quick and uncomplicated application.

#	 	۰	P	Max. tensile force	Max. tractive force	SW 	i
	EAN	mm/inch	Nm/ft lb	kN	t/US t. sh.	mm/inch	kg/lb
128-T-4	-018022	40, 46, 51, 55 1 9/16, 1 13/16, 2 1/64, 2 3/16	250 184.40	100	10 11.02	24 15/16	2,81 6,196

SERIES 129 BALL JOINT EXTRACTOR WITH LEVER TRANSLATION FOR PASSENGER CARS



The ball joint extractor with lever translation from the series 129 is used for pressing out ball pins when removing ball joints as well as tie rod ends on tie rods for passenger cars and light commercial vehicles. Due to its lever translation, the ball joint extractor can also apply a lot of force in areas where there is little access space. The series 129 impresses with its versatility of applications. In addition to a universal model, there are also versions that have been specifically manufactured for certain automobile categories and models, thus enabling ideal use. The lever clamping range can be adjusted via the thread of the center spindle.

Benefits

- The bolt can be adjusted to flexibly adapt the clamping range.
- The spread can be increased by simple conversion.

Technical attributes

#	4021176	Ð	F	P	Max. tensile force	Max. tractive force	SW 	i	Included in the set
	EAN	mm/inch	mm/inch	Nm/ft lb	kN	t/US t. sh.	mm/inch	kg/lb	
129-0	-410536	20 13/16	50 1 15/16	45 33.19	65	6.5 7.17	24 15/16	1,225 2,701	K-127-A/6
129-0-25	-989667	25 1	50 1 15/16	45 33.19	65	6.5 7.17	24 15/16	1,26 2,778	-
129-0-29	-989674	29,5 1 3/16	50 1 15/16	45 33.19	65	6.5 7.17	24 15/16	1,245 2,745	-
129-0-DC-1	-923920	20 13/16	50 1 15/16	45 33.19	65	6.5 7.17	24 15/16	1,23 2,712	-
129-0-DC-2	-923647	20 13/16	50 1 15/16	45 33.19	65	6.5 7.17	24 15/16	1,225 2,701	-

SERIES 129-1 BALL JOINT PULLER WITH LEVER TRANSLATION, FOR CARS AND LIGHT VANS



The ball joint puller with lever translation of series 129 is used to press out the ball pins when removing ball joints and tie rod ends on steering rods for cars and light commercial vehicles. Due to its lever translation, the ball joint puller can also apply a lot of force where there is little access space. Series 129 impresses with its application variety. Within the series, there are various sizes of ball joint pullers with different arm openings. The lever clamping range is adjustable via the thread of the center spindle.

Benefits

• The bolt can be adjusted to flexibly adapt the clamping range.

#	4021176	Ð	F	P	Max. tensile force	Max. tractive force	SW	i
	EAN	mm/inch	mm/inch	Nm/ft lb	kN	t/US t. sh.	mm/inch	kg/lb
129-1	-024696	22 7/8	50 1 15/16	30 22.13	30	3 3.31	17 11/16	0,72 1,588
129-1-B-1	-923654	31 1 1/4	50 1 15/16	30 22.13	30	3 3.31	17 11/16	0,725 1,599



SERIES 129-2 UNIVERSAL PRESS WITH LEVER TRANSLATION, SUITABLE FOR PASSENGER CARS, VANS, AND MEDIUM TRUCKS



The ball joint extractor with lever translation of series 129 is used for pressing out the ball pins when removing ball joints as well as tie rod ends on tie rods, universally for passenger cars, vans, and medium trucks. Due to its lever translation, the ball joint extractor can also apply much force where there is little access space available. Series 129 impresses with its variety of applications. The lever clamping range is adjustable via the thread of the center spindle.

Benefits

- The ball joint puller is universally applicable through three arm widths.
- The bolt can be adjusted to flexibly adapt the clamping range.n

Technical attributes

#	4021176		F	P	Max. tensile force	Max. tractive force	sw 	
	EAN	mm/inch	mm/inch	Nm/ft lb	kN	t/US t. sh.	mm/inch	kg/lb
129-2	-024771	16, 22, 32	70	35	30	3	17	1,13
		5/8, 7/8, 1 1/4	2 3/4	25.82		3.31	11/16	2,492

SERIES 129-25 UNIVERSAL BALL JOINT PULLER



The universal ball joint puller of the series 129 is used for pressing out the ball pins when removing ball joints on tie rods and track rods in passenger cars. Thanks to its leverage, the ball joint puller can also apply a lot of force where there is hardly any access space. The series 129 impresses with its wide range of applications. The lever clamping range can be adjusted via the thread of the center spindle.

Benefits

- With the center spindle, the press can be adjusted and pre-tensioned.
- The bolt can be adjusted to flexibly adapt the clamping range.
- The spread can be adjusted threefold by a simple modification.

#	4021176	1	F	P	Max. tensile force	Max. tractive force	SW	
	EAN	mm/inch	mm/inch	Nm/ft lb	kN	t/US t. sh.	mm/inch	kg/lb
129-25	-967924	19 3/4	45 1 3/4	140 103.26	170	17 18.74	19 3/4	1,62 3,572

SERIES 129-3-4 BALL JOINT PRESS WITH LEVER TRANSLATION, FOR MEDIUM AND HEAVY TRUCKS, BUSES, AND CONSTRUCTION VEHICLES



The ball joint puller with lever translation of the series 129 is used for pressing out the ball pins when removing ball joints as well as tie rod ends on tie rods, for medium and heavy trucks, buses, and construction vehicles. Due to its lever translation, the ball joint puller can also apply a lot of force where there is little access space available. The series 129 impresses with its versatility of applications. Within the series, there are various sizes of ball joint pullers with different arm openings. The lever clamping range is adjustable via the thread of the center spindle.

Benefits

- Better haptics through modern and ergonomic design
- · Low effort for high extraction performance
- The reach can be easily adjusted using a spring mechanism
- The bolt can be adjusted to flexibly adapt the clamping range.

#	4 021176	Ð	F	P	Max. tensile force	Max. tractive force	SW 	i
	EAN	mm/inch	mm/inch	Nm/ft lb	kN	t/US t. sh.	mm/inch	kg/lb
129-3	-270949	31 1 1/4	70 2 3/4	85 62.70	100	10 11.02	19 3/4	3,316 7,312
129-4	-271021	40 1 9/16	85 3 3/8	125 92.20	150	15 16.53	19 3/4	3,26 7,188



The ball joint extractor 129-3 when pressing out a track rod knob



SERIES 129-3-A JOINT EXTRACTOR WITH LEVERAGE TRANSLATION, SPECIALLY DESIGNED FOR CARS WITH ALUMINUM CHASSIS



The ball joint puller with lever transmission from the series 129 is used for pressing out the ball pins when removing ball joints as well as tie rod ends on tie rods, specifically for cars with aluminum chassis. Due to its lever transmission, the ball joint puller can also apply a lot of force in places with limited access. The series 129 impresses with its variety of applications. Within the series, there are different sizes of ball joint pullers with varying arm openings. The lever clamping range can be adjusted via the thread of the center spindle.

Benefits

- The reach can be easily adjusted with a spring mechanism.
- The bolt can be adjusted to flexibly adapt the clamping range.

Technical attributes

#	4021176	\Box	H	P	Max. tensile force	Max. tractive force	sw 	
	EAN	mm/inch	mm/inch	Nm/ft lb	kN	t/US t. sh.	mm/inch	kg/lb
129-3-A	-803178	30 1 3/16	65 2 9/16	35 25.82	65	6.5 7.17	19 3/4	1,96 4,322
129-3-A-32	-989681	32 1 1/4	65 2 9/16	35 25.82	65	6.5 7.17	19 3/4	1,925 4,245
129-3-A-34	-989698	34 1 5/16	65 2 9/16	35 25.82	65	6.5 7.17	19 3/4	1,96 4,322

SERIES 129-4-30 BALL JOINT EXTRACTOR WITH LEVER TRANSLATION FOR PASSENGER CARS



The ball joint extractor with lever translation of series 129 is used to press out the ball pins when removing ball joints and tie rod ends on steering rods in passenger cars. Tight space conditions allow little room for the gentle positioning of the press. Due to its special design, the disassembly of the support joint occurs without contact with other axle components, thus protecting the sensitive surfaces. Series 129 impresses with its versatility in application. The version 129-4-30 has been specifically developed for applications on the Audi R8. The lever clamping range can be adjusted via the thread of the center spindle.

Benefits

- · Better haptics through modern and ergonomic design
- Low effort for high pulling performance
- The reach can be easily adjusted using a spring mechanism.
- The bolt can be adjusted to flexibly adapt the clamping range.

#	4 021176	Ð	3	P	Max. tensile force	Max. tractive force	SW 	i
	EAN	mm/inch	mm/inch	Nm/ft lb	kN	t/US t. sh.	mm/inch	kg/lb
129-4-30	-102653	30 1 3/16	70 2 3/4	85 62.70	100	10 11.02	19 3/4	2,8 6,174

SERIES 129-5 PULLER FOR HEAVY TRUCKS



The ball joint puller for heavy trucks of series 129 is used for the hydraulic extraction of ball pins when removing ball joints on tie rods and steering rods specifically for medium and heavy trucks, buses, and construction vehicles. The series 129 impresses with its versatility in application. The lever clamping range is adjustable via the thread of the center spindle.

Benefits

• The bolt can be adjusted to flexibly adapt the clamping range.

Technical attributes

#	4021176	Ð	F	P	Max. tensile force	Max. tractive force	SW 	i
	EAN	mm/inch	mm/inch	Nm/ft lb	kN	t/US t. sh.	mm/inch	kg/lb
129-5	-865084	36 1 7/16	70 2 3/4	200 147.52	150	15 16.53	19 3/4	4,24 9,349

SERIES 129-5-H HYDRAULIC SPINDLE PULLER FOR HEAVY TRUCKS



The ball joint puller with hydraulic spindle for heavy trucks of series 129 is used for the hydraulic extraction of the ball pins when removing ball joints on tie rods and steering rods specifically designed for medium and heavy trucks, buses, and construction vehicles. The series 129 impresses with its versatility. The hydraulic spindle guarantees an easy and controlled removal of particularly seized parts with minimal effort.

Benefits

- Low effort for high pulling performance
- The spindle neck prevents the key from slipping off.

#	4021176	Ð	H	P	Max. tensile force	Max. tractive force	sw ⊷	
	EAN	mm/inch	mm/inch	Nm	kN	t/US t. sh.	mm/inch	kg/lb
129-5-H	-865091	36 1 7/16	70 2 3/4	70	150	15 16.53	19 3/4	5,34 11,775

SERIES 129-5-0 2-ARM AND PUSHROD PULLER FOR HEAVY TRUCKS



The 2-arm puller for heavy trucks of the series 129 is used for mechanically pressing out the ball studs when removing ball joints on thrust and steering rods. The series 129 impresses with its versatility of applications. Within the series, there are different sizes of ball joint presses with varying arm openings. The lever clamping range can be adjusted via the thread of the center spindle.

Benefits

- The extra strong version of the base body and reinforced fork is particularly suitable for heavy trucks and low-floor buses.
- With the center spindle, the press can be adjusted and pre-tensioned.
- Suitable for the following vehicle types: o Mercedes Benz: ACTROS, ATEGO from 18 tons, SKO 405, -N, -GN (low-floor buses)
 - o MAN: F2000, TG, A 23 (low-floor articulated buses)
 - o Scania: series 3 and 4, Icarus
- Depending on the space requirement, the mechanical drive spindle can be actuated by modification from above or below.

Technical attributes

#	4021176	\Box	3	P	Max. tensile force	Max. tractive force	SW →	
	EAN	mm/inch	mm/inch	Nm/ft lb	kN	t/US t. sh.	mm/inch	kg/lb
129-5-45	-333316	45 1 3/4	120 4 3/4	210 154.90	100	10 11.02	27 1 1/16	7,96 17,552
129-5-50	-123313	55 2 3/16	120 4 3/4	420 309.79	200	20 22.05	27 1 1/16	6,84 15,082

SERIES 129-5-H-0 2-ARM AND 3-ARM PULLER WITH HYDRAULIC LIFTING CYLINDER



The 2-arm and steering arm puller with hydraulic lift cylinder from series 129 is used for the hydraulic extraction of ball pins when removing ball joints on steering and tie rods specifically for trucks and low-floor buses. The lift cylinder ensures easy and controlled removal of particularly stuck parts with minimal effort. Series 129 impresses with its versatility of applications. Within the series, there are various sizes of ball joint extractors with different arm openings. A hydraulic pump (YHP-320) with hose (YF-200), which is not included in the delivery, is required for driving the tool.

Benefits

- The hydraulic presses are powered by a hydraulic cylinder, allowing for controlled and safe operation.
- The extra powerful version of the base body and reinforced fork is particularly suitable for heavy trucks and low-floor buses.
- With the center spindle, the press can be adjusted and pre-tensioned.
- Suitable for the following vehicle types:

 Mercedes Benz: ACTROS, ATEGO from 18 tons, SKO 405, -N, -GN (low-floor buses)
 - o MAN: F2000, TG, A 23 (low-floor articulated buses)
 - o Scania: series 3 and 4, Icarus

#	4021176	; >	Ð	1	3	Max. tensile force	Max. tractive force	Ø	i
	EAN	mm/inch	mm/inch	mm/inch	mm/inch	kN	t/US t. sh.	bar	kg/lb
129-5-45-H10	-333361	28,5 1 1/8	45 1 3/4	6 1/4	120 4 3/4	100	10 11.02	700	8,28 18,257
129-5-45-H20	-333422	28,5 1 1/8	45 1 3/4	6 1/4	120 4 3/4	200	20 22.05	700	9,57 21,102
129-5-50-H10	-000317	28,5 1 1/8	55 2 3/16	6 1/4	120 4 3/4	100	10 11.02	700	7,65 16,868
129-5-50-H20	-000324	28,5 1 1/8	55 2 3/16	6 1/4	120 4 3/4	200	20 22.05	700	9,2 20,286

SERIES 129-6 TRUCK BALL JOINT PRESS "UNIVERSAL"



The truck ball joint press "Universal" of series 129 is used for pressing out particularly firmly seated ball pins when removing ball joints on push and steering rods for trucks, buses, and construction vehicles. The series 129 impresses with its versatility.

Benefits

- Versatile due to the three different separator arms included in the scope of delivery.
- Especially suitable for solving ball joint connections that are stuck in the cone seat.

Technical attributes

#	4 021176		P	Max. tensile force	Max. tractive force	SW →	
	EAN	mm/inch	Nm/ft lb	kN	t/US t. sh.	mm/inch	kg/lb
129-6	-971662	25, 32, 47 1, 1 1/4, 1 7/8	300 221.28	100	10 11.02	27 1 1/16	9,24 20,374

SERIES 129-36 PULLER FOR TIE RODS



The puller for tie rods and push rods of the series 129 is used for the hydraulic pressing out of the ball pins when removing ball joints on push and tie rods specifically designed for trucks and low-floor buses.

Benefits

- The extra sturdy design of the base body and reinforced fork is particularly suitable for heavy trucks and low-floor buses.
- The low design is ideal for low-floor buses of the types MAN, Mercedes-Benz, CITARO, etc. Suitable

#	4021176	Ð	3	Max. tensile force	Max. tractive force	
	EAN	mm/inch	mm/inch	kN	t/US t. sh.	kg/lb
129-36	-865077	36 1 7/16	60 2 3/8	100	10 11.02	5,395 11,896



SERIES 129-36-H 2-ARM AND PUSH ROD JOINT PULLER WITH HYDRAULIC LIFT CYLINDER



The rod end and tie rod puller with hydraulic lifting cylinder of series 129 is used for hydraulic pressing out of ball pins when removing ball joints from push and tie rods specifically for trucks and low-floor buses. This extra heavy-duty version is particularly suitable for hydraulic pressing out or separating the ball joints on the tie and push rods.

Benefits

- The hydraulic press with its hydraulic cylinder enables controlled and safe pulling off.
- The extra-strong version of the base body and reinforced fork is particularly suitable for heavy trucks and low-floor buses.
- The low building form is ideal for low-floor buses of the types MAN, Mercedes-Benz, CITARO, etc. Suitable

Technical attributes

#	4021176l	Ð	F	Max. tensile force	Max. tractive force	\bigcirc	i
	EAN	mm/inch	mm/inch	kN	t/US t. sh.	bar	kg/lb
129-36-H	-222894	36 1 7/16	60 2 3/8	100	10 11.02	700	7,055 15,556

SERIES 129-H BALL JOINT PRESS WITH SHORT HYDRAULIC SPINDLE



The spherical joint extractor with a short hydraulic spindle of series 129 is used to press out particularly stubborn ball pins during the dismantling of ball joints and tie rod ends on medium trucks, buses, and construction vehicles. Series 129 impresses with its versatility of applications. Within the series, there are different sizes of spherical joint extractors with varying arm openings. The clamping range can be adjusted via the thread of the center spindle. The grease hydraulic spindle achieves an average pulling force of up to 15 tons, thus guaranteeing an easy and controlled pulling off of particularly stubborn parts with minimal effort. For extraction processes with a pulling force of up to 10 tons and/or in tight space conditions, the mechanical spindle can be used.

Benefits

- Low effort for high pulling performance
- The reach can be easily adjusted using a spring mechanism.
- The bund of the spindle neck prevents the slipping of the key.

#	4021176	1	F	P	Max. tensile force	Max. tractive force	SW	i
	EAN	mm/inch	mm/inch	Nm/ft lb	kN	t/US t. sh.	mm/inch	kg/lb
129-3-H	-803253	31 1 1/4	70 2 3/4	40 29.50	100	10 11.02		4,16 9,173
129-4-H	-803666	40 1 9/16	85 3 3/8	70 51.63	150	15 16.53	19 3/4	4,175 9,206

SERIES 135 SEPARATOR



The fork separators of series 135 are used for loosening ball pivot joints that are wedged in the cone seat, for loosening steering levers, for disassembling shock absorbers, and for other separation work of all kinds in automotive and industry. Their universal applicability makes the fork separators an important companion for disassembly and separation tasks.

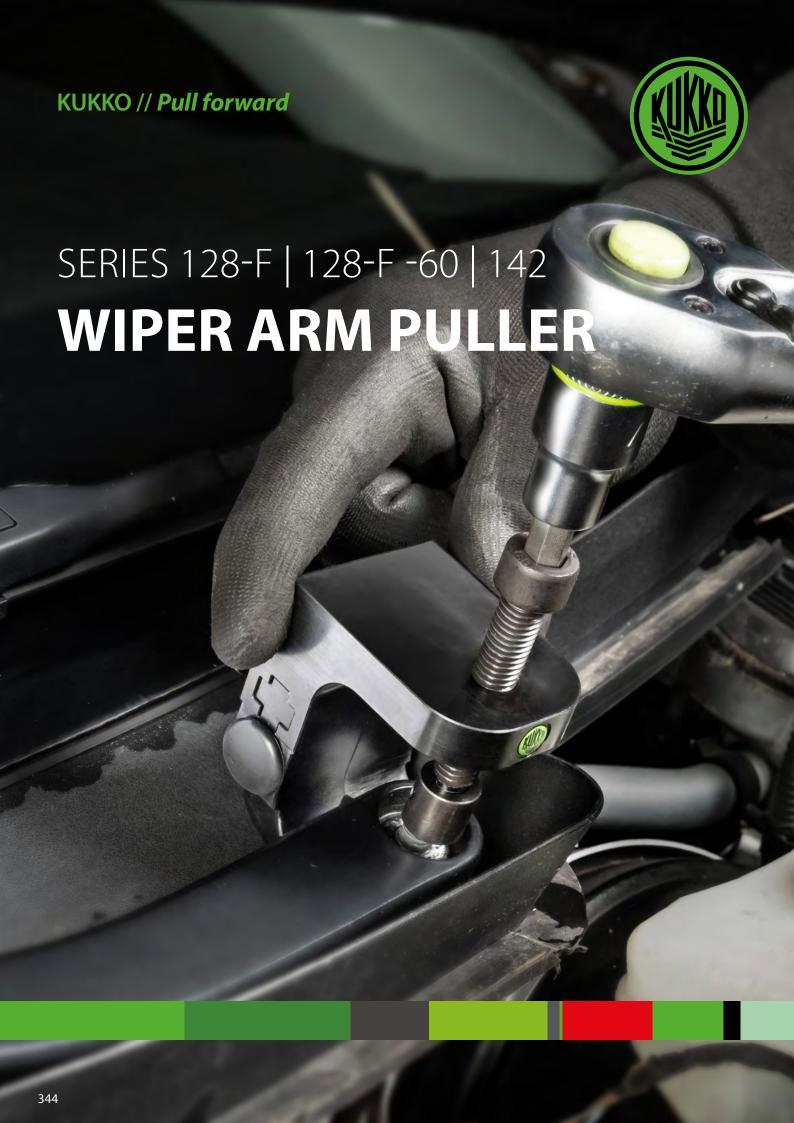
Benefits

• The set includes sizes with various arm openings for use in every case.

#		←	Ð	i
	EAN	mm/inch	mm/inch	kg/lb
135-1	-024856	310 12 3/16	18 11/16	0,74 1,632
135-2	-024931	316 12 7/16	23 7/8	0,8 1,764
135-3	-025013	319 12 9/16	29 1 1/8	0,815 1,797
135-4	-025198	335 13 3/16	39 1 9/16	1,465 3,230
135-5	-220531	340 13 3/8	45 1 3/4	1,28 2,822



The separating fork 135-2 when releasing a ball joint wedged into the cone seat of a car



DEPLOYMENT

Bent or broken wiper arms must be replaced quickly in order to free the windshield and rear window from rain, snow, and dirt. In general, the wiper arms are very tight and cannot be loosened without special tools. KUKKO pullers are the ideal choice for dismantling particularly seized or rusted windshield wiper arms.

₩

Benefits

- · Gentle removal thanks to special pressure piece on the spindle
- · Adjustable spread using a spring mechanism (series 128-F-60)
- · Suitable for windshields and rear windows where the water hose goes through the hub (series 128-F-60)

ASSEMBLY









SERIES 128-F-SW



The universal wiper puller can be used on 80% of all vehicle models. The specially designed pressure piece protects the wiper fluid hose during the extraction process.

SERIES 142



The models of series 142 are adapted to the aerodynamic and safety-related developments of the automotive industry. Due to the increasingly tight spatial conditions, the spindle can be adjusted in angle and length.

SERIES 128-F-60

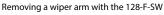


128-F-60

The puller arm extractor with adjustable spread (16-38 mm) can be used universally. Thanks to the spring mechanism, the hooks are optimally positioned. A special benefit is the interchangeable hooks.

APPLICATION EXAMPLES

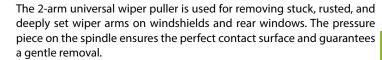






Removing a wiper arm with the 128-F-60

SERIES 128-F 2-ARM UNIVERSAL WIPER PULLER







Benefits

- Gentle removal thanks to special pressure piece on the spindle
- Anti-slip safety (spindle neck) at the spindle head for safe work with the wrench.
- Spindle outlet to protect the thread

Technical attributes

#		ф	(†)	SW 		Included in the set
	EAN	mm/inch	mm/inch	mm/inch	kg/lb	
128-F-SW	-971242	25 - 60 1 - 2 3/8	50 1 15/16	13 1/2	0,245 0,540	K-142/4, K-142/6

SERIES 128-F-60 2-ARM UNIVERSAL WIPER PULLER



The universal wiper pullers with adjustable spread of series 128-F-60 are used for removing stuck, rusted, and deeply mounted wiper arms in the automotive industry. The returning spring mechanism keeps the arms under tension. Thanks to interchangeable arms, the puller can also be used on low-mounted wiper arms.

Benefits

- Suitable for windshields and rear windows where the wiper water hose passes through the hub.
- The choice of special threads allows for particularly high pulling forces.
- Particularly gentle removal thanks to a special pressure piece on the spindle
- · Adjustable span using spring mechanism

#	 	Ð	SW I⊷I	i
	EAN	mm/inch	mm/inch	kg/lb
128-F-60	-007071	16 - 38 5/8 1 1/2	13 1/2	0 0,000

SERIES 142 UNIVERSAL WIPER PULLER





The universal pullers of series 142 are used for removing stuck, rusted, and recessed windshield wiper arms in the automotive sector. The optimal bell shape and easy adjustability make the puller applicable for most models of common windshield wiper arms.

Benefits

- Suitable for windshields and rear windows where the wiper water hose passes through the hub.
- The choice of special threads allows for particularly high pulling forces.
- Particularly gentle removal thanks to a special pressure piece on the spindle
- · Anti-slip safety (spindle neck) for safe working with wrench

Technical attributes

#		⊕ mm/inch	sw 	kg/lb	Included in the set
142.1	555570	1.5	0		V 142/4 V 142/6 V 22 A
142-1	-555572	15 9/16	8 5/16	0,245 0,540	K-142/4, K-142/6, K-22-A
142-2	-555602	23,5 15/16	8 5/16	0,26 0,573	K-142/6, K-22-A
142-3	-555619	15 9/16	8 5/16	0,225 0,496	K-142/6, K-22-A
142-4	-555626	26,5 1 1/32	16 5/8	0,215 0,474	K-142/4, K-142/6, K-22-A

SERIES K-142 5-PIECE UNIVERSAL WIPER PULLER SET



The 5-piece Universal Wiper Puller Set K-142/4 is used to pull off stuck, rusted, and deeply installed wiper arms on all vehicle models. Included are the wiper pullers from series 142, as well as a wiper arm puller from series 128-F-SW and a 2-arm universal puller with self-centering puller arms from series 43. This set, due to its composition, is capable of gently and safely pulling even in tricky extraction situations without having to disassemble any additional parts.

Benefits

- · Application-oriented assembly for universal use
- By storing it in the box, the completeness of the set can be easily overviewed.
- Particularly gentle removal thanks to a special pressure piece on the spindle

#		$\bigoplus_{i=1}^{n}$	ij	o‡	i	Components
	EAN	mm/inch	mm/inch	mm/inch	kg/lb	
K-142/4	-039232	0 - 60 0 - 2 3/8	0 - 50 0 - 1 15/16	15, 26,5 9/16, 1 1/16	1,35 2,977	128-F-SW, 142-1, 142-4, 43-1

SERIES K-142 8-PIECE UNIVERSAL WIPER PULLER SET



The 8-piece universal wiper puller set K-142/6 is used to remove firmly seated, rusted, and deeply mounted wiper arms on all vehicle models. Included are the wiper pullers from series 142, as well as a wiper arm puller from series 128-F-SW and a 2-arm universal puller with self-centering puller arms from series 43. Due to this combination, the set is capable of gently and safely pulling even in tricky extraction situations without the need to disassemble additional parts.

Benefits

- · Application-oriented assembly for universal use
- By storing it in the box, the completeness of the set can be easily
- Particularly gentle removal thanks to a special pressure piece on the spindle

#	4 021176		Ţ	۰	i	Components
	EAN	mm/inch	mm/inch	mm/inch	kg/lb	
K-142/6	-039249	0 - 60 0 - 2 3/8	0 - 50 0 - 1 15/16	15, 15, 23,5, 56,5 9/16, 9/16, 15/16, 2 1/4	2,61 5,755	43-1, 128-F-SW, 142-1, 142-2, 142-3, 142-4





SERIES 10-A | 10-M | 38 | 40 | 226 | 229 | Y-60-100 | CITARO

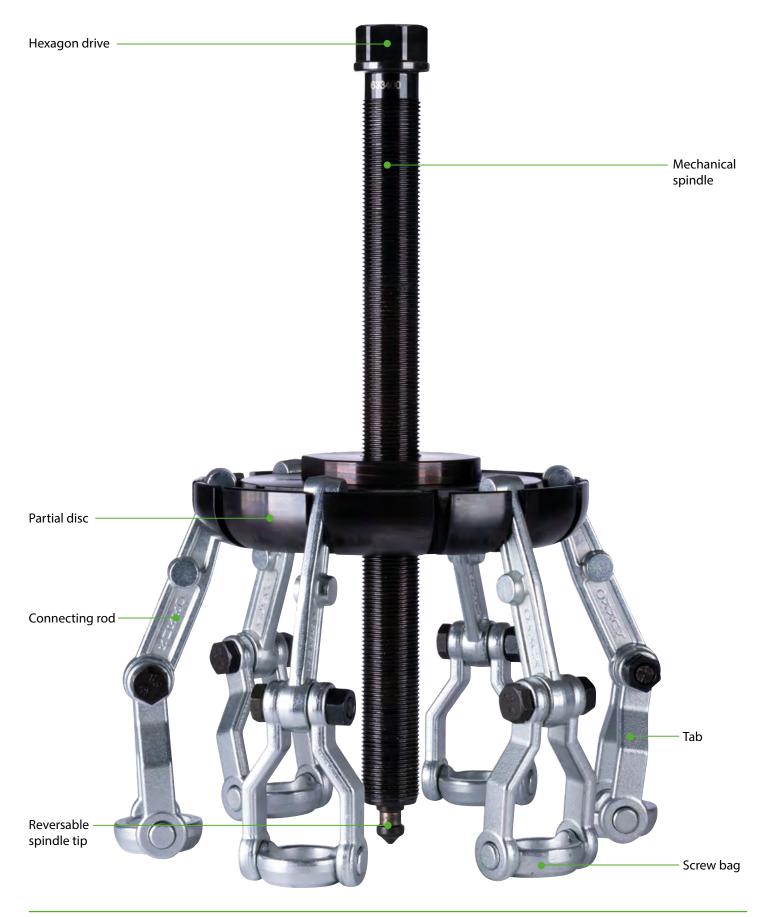
HUB PULLER



DEPLOYMENT

Wheel hubs are subjected to significant stresses. In motor vehicles, the wheel hub is mounted on the drive shaft in the center of the wheel. Special tools are required for the disassembly of the wheel hub. KUKKO offers various disassembly tools depending on the installation situation.

ASSEMBLY OF A HUB PULLER OF THE SERIES 10-M



ASSEMBLY OF A HUB PULLER OF SERIES 229



SERIES 10-A



The hydraulic hub puller is used for pulling hub assemblies on cars and trucks. The grease hydraulic spindle achieves a pulling force of 20 t. Up to six puller arms can be used on the partial disc, making the puller universally applicable. In addition, the puller arms can be adjusted to two different lengths.

SERIES 10-M



The hub puller with crossbar is used for pulling wheel hubs on trucks. Up to six puller arms can be hung in different positions on the crossbar. The arms can also be adjusted to two different lengths. This makes the puller universally usable even for variable bolt circle diameters.

SERIES 38



The hub puller with crossbar is used for removing wheel hubs on trucks. Up to five pulling arms can be hung on the crossbar, which are freely movable on the bar. This makes the puller universally applicable for different vehicle models. The freely movable T-handle on the spindle head guarantees manual tightening of the spindle in tight spaces.

SERIES 40



The hub puller with crossbar is used for pulling hubs on trucks. The spindle runs in a thread bush that is axially movable, in case impacts on the spindle head are required to loosen the hub. The freely movable T-handle on the spindle head ensures manual tightening of the spindle in confined spaces.

SERIES 226



The pulling device for truck axles of the series 226 is used for pulling wheel hubs on SAF and BPW axles for trucks and commercial vehicles in the automotive sector. In addition to the pulling device, several adapters are also included, allowing application on most common models.

SERIES 229



The hub puller with sliding hammer of series 229 is used for removing all 4- and 5-hole wheel hubs of almost all car types in automotive. The flange is designed with grooves of different spacing to accommodate standard screws. Also available with hydraulic spindle.

SERIES Y-60-000



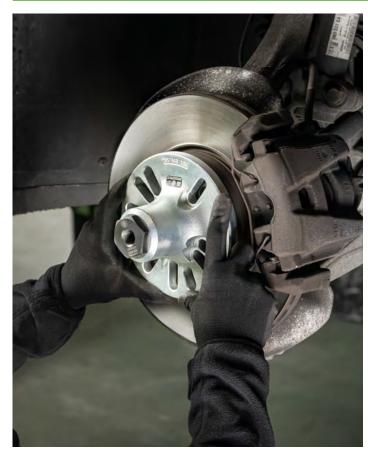
The hydraulic wheel hub puller for commercial vehicles and low-floor buses is used for the safe and quick disassembly of the wheel hub on commercial vehicles and buses in the automotive sector. The bolt circle disc and the 30 t pressure cylinder are capable of loosening very tightly seated and difficult-to-remove wheel hubs.

SERIES CITARO

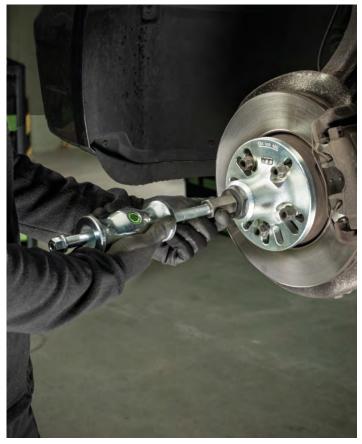


The hydraulic hub puller "Citaro" is used for pulling wheel hubs in the automotive industry. It perfectly loosens very tight, difficult-to-remove wheel hubs. The 30 t pressure cylinder allows for a time-saving and universal application, even with stubborn parts.

APPLICATION EXAMPLES



Attaching the puller to the wheel hub



The hub puller 229-1-1 with sliding hammer for extracting stuck wheel hubs on a passenger car.





The hub puller with crossbar is used for pulling wheel hubs on trucks. Up to six puller arms can be hung in different positions on the crossbar. The arms can also be adjusted to two different lengths. This makes the puller universally applicable even with variable bolt circle diameters.

Benefits

- Preservation of wheel bolt threads by consistently flat-lying nut pockets
- Length-adjustable and individually positionable pulling arms as well as variously sized part discs ensure universal application on trucks.

Technical attributes

#	4021176			SW 	P	Max. tensile force	Max. tractive force	
	EAN	mm/inch	mm/inch	mm/inch	Nm/ft lb	kN	t/US t. sh.	kg/lb
10-M	-862311	350 13 3/4	150 5 7/8	36 1 7/16	450 331.92	150	15 16.53	16 35,280

SERIES 10-A HYDRAULIC HUB PULLER SET



The hydraulic hub puller is used for pulling hub assemblies on passenger cars and trucks. The grease-hydraulic spindle achieves a pulling force of 20 t. Up to six pulling arms can be used on the partial disc, making the puller universally applicable. Additionally, the pulling arms can be adjusted to two different lengths. The 22-piece set includes: one partial disc, six pulling arms, twelve insert rings in different sizes, one hydraulic spindle, and two pressure pieces.

Benefits

- Adjustable and individually positionable arms guarantee universal application on cars and trucks.
- Thanks to the partial disk, different hole circles can be covered.
- Preservation of wheel bolt integrity through consistently flat-lying nut pockets.
- Fat hydraulic spindle guarantees easy and controlled removal of particularly stubborn parts with minimal effort.

#	4021176			SW 	Max. tensile force	Max. tractive force	
	EAN	mm/inch	mm/inch	mm/inch	kN	t/US t. sh.	kg/lb
10-A	-005626	250 9 13/16	150 5 7/8	17 11/16	200	20 22.05	17,34 38,235
10-G	-005701	350 13 3/4	150 5 7/8		200	20 22.05	24,88 54,860

SERIES 38 HUB PULLER





The hub puller with crossbar is used for pulling hub assemblies on trucks. Up to five puller arms can be hung on the crossbar, which are freely movable on it. This makes the puller universally applicable for various vehicle models. The freely movable T-handle at the spindle head guarantees manual tightening of the spindle in tight spaces.

Benefits

- Preservation of wheel bolt threads by consistently flat-lying nut pockets
- Integrated, free-moving T-handle ensures manual spindle drive in tight spaces

Technical attributes

#	4021176	0 0 1	$ \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad$	SW →	
	EAN	mm/inch	mm/inch	mm/inch	kg/lb
38	-014383	250	105	27	5,68
		9 13/16	4 1/8	1 1/16	12,524

SERIES 40 HUB PULLER



The hub puller with the crossbar is used for pulling hubs from trucks. The spindle runs in a threaded bushing that is axially movable, in case impacts on the spindle head are necessary to loosen the hub. The freely movable T-handle on the spindle head ensures manual tightening of the spindle in tight spaces.

Benefits

- Preservation of wheel bolt threads by consistently flat-lying nut pockets
- Integrated, free-moving T-handle ensures manual spindle drive in tight spaces

#		0 0 1	(SW 	i
	EAN	mm/inch	mm/inch	mm/inch	kg/lb
40-3	-014611	225 8 7/8	150 5 7/8	27 1 1/16	4,51 9,945
40-5	-014956	225 8 7/8	150 5 7/8	27 1 1/16	5,44 11,995

SERIES 229-1-1 HUB PULLER WITH SLIDING HAMMER



The hub puller with sliding hammer of series 229 is used to extract all 4- and 5-hole hubs of almost all types of passenger cars in automotive applications. The flange is designed with slots of varying spacing to accommodate standard screws.

Benefits

- Also suitable for pressing drive shafts in vehicles with front-wheel drive.
- The hub puller is suitable for removing all 4- and 5-hole hubs on VW, Audi, Seat, Skoda, Opel, Volvo, Fiat, Renault, etc.
- The reducer can be screwed in to work with a mechanical spindle.

Technical attributes

#	 	(°)				i
	EAN	mm/inch	mm/inch	mm/inch	kg	kg/lb
229-1-1	-283703	97 - 145 3 13/16-5 11/16	370 14 9/16	250 9 13/16	1.7	12,02 26,504

SERIES 229-1-2 HUB PULLER WITH SLIDING HAMMER



The hub puller with sliding hammer of series 229 is used to extract all 4- and 5-hole hubs of almost all types of passenger cars in automotive applications. The flange is designed with slots of varying spacing to accommodate standard screws.

Benefits

- Also suitable for pressing drive shafts in vehicles with front-wheel drive
- The hub puller is suitable for removing all 4- and 5-hole hubs on VW, Audi, Seat, Skoda, Opel, Volvo, Fiat, Renault, etc.
- The reducer can be screwed in to work with a mechanical spindle.

#	 					
	EAN	mm/inch	mm/inch	mm/inch	kg	kg/lb
229-1-2	-545733	97 - 145 3 13/16-5 11/16	700 27 9/16	340 13 3/8	5	11,29 24,894



SERIES 229 HYDRAULIC HUB PULLER





The hydraulic hub puller of the series 229 is used for removing all 4- and 5-hole hubs of almost all car types in automotive and industry. The flange is designed with slots of different spacings to accommodate commercially available screws.

Benefits

- Also suitable for pressing drive shafts in vehicles with front-wheel drive.
- The hub puller is suitable for pulling all 4- and 5-hole wheel hubs on VW, Audi, Seat, Skoda, Opel, Volvo, Fiat, Renault etc.
- The reducer can be screwed in to work with a mechanical spindle.

Technical attributes

#		0 0	P	Max. tensile force	Max. tractive force	i
	EAN	mm/inch	Nm/ft lb	kN	t/US t. sh.	kg/lb
229-2	-995026	97 - 145 3 13/16-5 11/16	40 29.50	100	10 11.02	4,665 10,286
229-3	-995033	97 - 145 3 13/16-5 11/16	70 51.63	150	15 16.53	4,735 10,441

SERIES 226 PULLER DEVICE FOR TRUCK AXLES



The pulling device for truck axles of the series 226 is used for pulling wheel hubs on SAF and BPW axles for trucks and commercial vehicles in the automotive industry. In addition to the pulling device, several adapters are included, which allow application on most common models.

Benefits

 Printing pieces and extensions are already included in the set and expand the application.

#	4021176	†	Ħ	Ö		sw i⊷	P	Max. tensile force	Max. tractive force	i	Included in the set
	EAN	mm/inch	mm/inch	mm/inch	nominal dimension	mm/inch	Nm/ft lb	kN	t/US t. sh.	kg/lb	
226-4/11	-831362	115 - 380 4 1/2 - 14 15/16	370 14 9/16	90x30, 110x30mm 3 9/16x1 3/16, 4 5/16x1 3/16	M18x1,5, M20x1,5, M22x1,5	36 1 7/16	450 331.92	150	15 16.53	22,09 48,708	K-226-4/12

₩

SERIES Y-60-000 HYDRAULIC HUB PULLER FOR COMMERCIAL VEHICLES AND LOW-FLOOR BUSES



The hydraulic hub puller for commercial vehicles and low-floor buses is used for the safe and quick disassembly of the wheel hub in commercial vehicles and buses in the automotive industry. The bolt circle plate and the 30 t pressure cylinder are capable of loosening very tight and difficult-to-remove wheel hubs.

Benefits

- The hole circle disc with various radii and drill diameters allows for use with a variety of models.
- By storing it in the box, the completeness of the set can be easily overviewed.
- The pulling process protects the hub bearings and removes them quickly and without damage.

Technical attributes

#	4021176	0 0	\bigcirc		Max. tensile force	Max. tractive force	i
	EAN	mm/inch	bar		kN	t/US t. sh.	kg/lb
Y-60-100	-356780	168,184,190 6 5/8, 7 1/4, 7 1/2	700	M16x1,5, M18x1,5, M20x1,5	300	30 33.07	37 81,585
Y-60-200 NEW	-104060	225, 275, 335 8 7/8, 10 13/16, 13 3/16	700	M22 x 1,5	300	30 33.07	37 81,585

SERIES CITARO HYDRAULIC WHEEL HUB PULLER "CITARO"

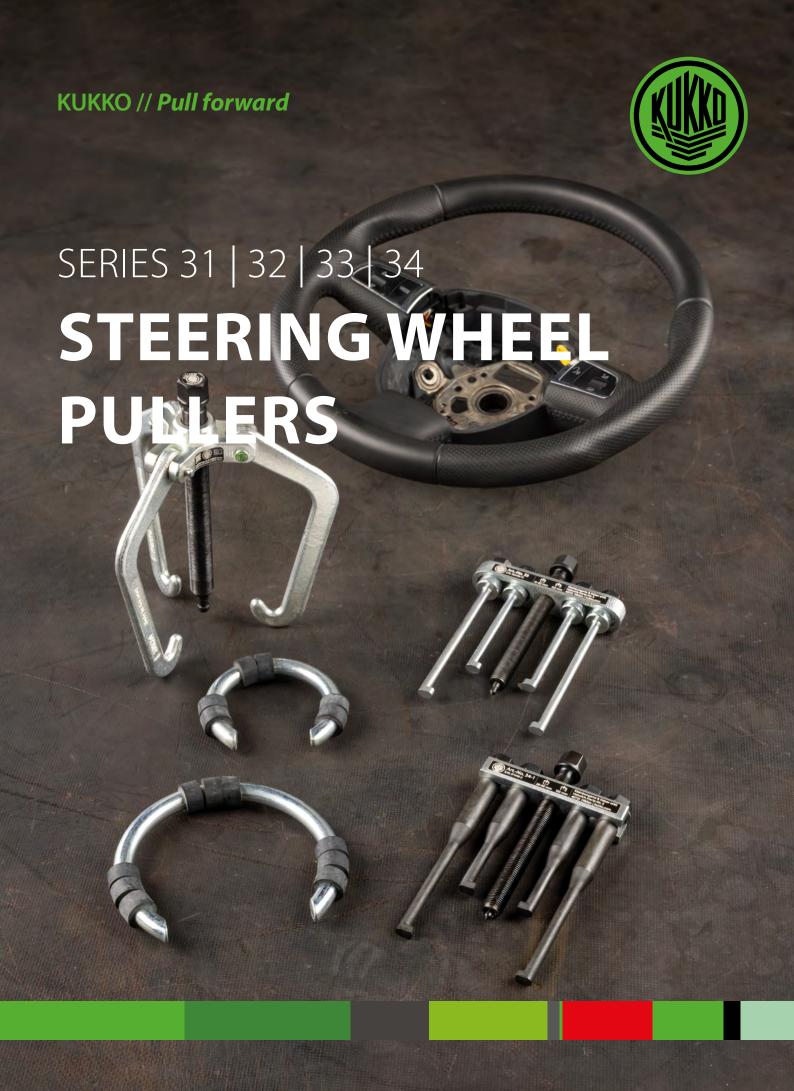


The hydraulic hub puller "Citaro" is used for pulling wheel hubs in the automotive industry. It allows for the perfect loosening of very stuck, difficult-to-remove wheel hubs. The 30 t pressure cylinder enables a time-saving and versatile application, even with stubborn parts.

Benefits

- For quick and easy positioning on the vehicle, the work unit is pivotable and pre-adjustable.
- The lever actuation allows ergonomic operation from the work area thanks to 360° swivel capability.
- The overload protection and the lowering device with easily accessible rotary valve reduces the risk of injury.
- Thanks to the 4 swivel casters and easy adjustability, it can be used mobilly at any time.

#		Ø	} Ī	Max. tensile force	Max. tractive force	Usage	i
	EAN	bar		kN	t/US t. sh.		kg/lb
YHU-S-Citaro	-060137	700	M16x1,5, M18x1,5, M20x1,5	300	30 33.07	Achse ZF A, B und C (Typ AV132) RL 75 E, RL 75 EC	200 441,000



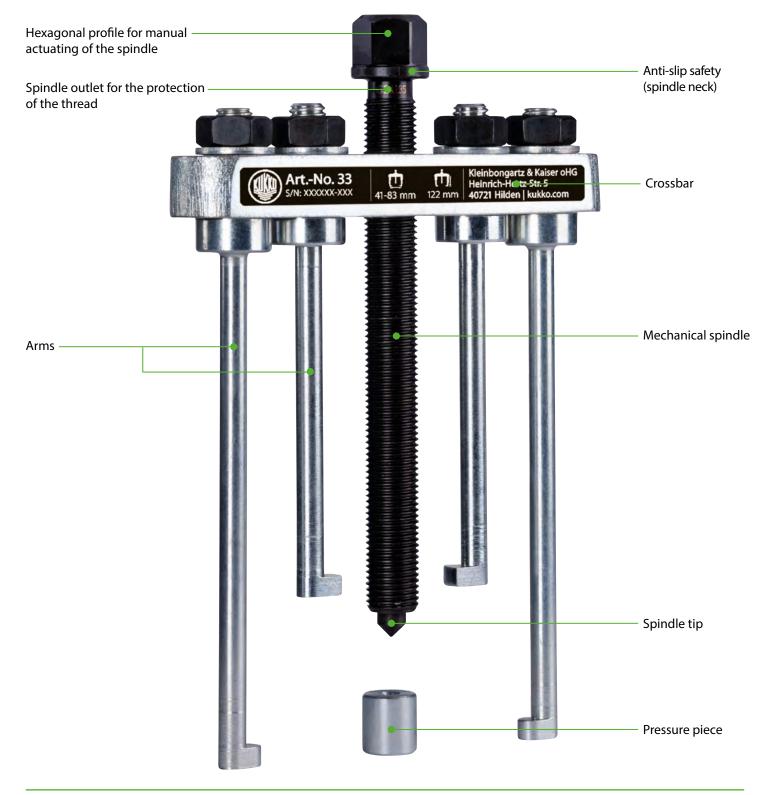
DEPLOYMENT

With the steering wheel pullers from KUKKO, steering wheels are professionally and material-friendly removed. The special hook shape is also suitable for pulling difficult-to-reach components. Depending on the vehicle model and installation situation, KUKKO offers various steering wheel pullers in its range. The selection ranges from pullers for steering wheels with three or four spokes to pullers for sport steering wheels.

Benefits

- Universally applicable thanks to various sizes of insert rings (series 31)
- Universally applicable thanks to various sizes of pull rings (series 32)
- Universally applicable for a variety of steering wheel types thanks to different lengths of arms (series 33)
- Separate protective cap for the steering spindle thread is included (series 33 and 34)

ASSEMBLY OF A STEERING WHEEL PULLER



SERIES 31

Steering wheel puller



31-1

The universal steering wheel puller is used for gently removing steering wheels in various designs. The particularly powerful design of the puller withstands even the strongest loads.

SERIES 32

Steering wheel puller



32-1

The steering wheel puller is used for gentle removal of steering wheels with three or four spokes. The particularly powerful design of the puller withstands even the greatest loads.

SERIES 33

2-arm steering wheel puller



The 2-arm puller is used for pulling steering wheels with narrow pull slots. The two short arms are ideally suited for sport steering wheels. The long arms come into play with standard steering wheels. Due to their construction, the arms are adjustable in every direction.

SERIES 34

2-arm steering wheel puller



34-1

The 2-arm puller is used for removing steering wheels with large pull slots. The variant 34-0 is equipped with a pair of short arms. The model 34-1 has an additional pair of long arms. Due to their construction, the arms are adjustable in every direction.

SERIES 31 STEERING WHEEL PULLER



Technical attributes

The universally applicable steering wheel puller is used for gentle removal of steering wheels in various designs. The particularly powerful design of the puller withstands even the strongest loads.

Benefits

- · Universally applicable thanks to various sizes of insert rings
- Safe setup of the spindle through a swiveling spindle tip on both smooth surfaces and during centering (Switch Technology)

#		Ð	SW ⊷	i
	EAN	mm/inch	mm/inch	kg/lb
31-1	-013881	30 - 60	22	5,9
		1 3/16 2 3/8	7/8	13,010
31-2	-013966	80 - 90	22	4,86
		3 1/8 3 9/16	7/8	10,716

SERIES 32 STEERING WHEEL PULLER



Technical attributes

The steering wheel puller is used for gentle removal of steering wheels with three or four spokes. The particularly strong design of the puller withstands even the highest loads.

Benefits

- The rubber coating on the pulling ring provides protection for the steering wheel and spokes during the extraction process.
- · Universally applicable thanks to variously sized pull rings
- Secure mounting of the spindle with a swivel spindle tip on both smooth surfaces and during centering (Switch Technology)

#		$\qquad \qquad \dot{\Box}$	$ \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad$	SW →	i
	EAN	mm/inch	mm/inch	mm/inch	kg/lb
32-1	-014048	53 - 92	100	17	1,56
		2 1/16 - 3 5/8	3 7/8	11/16	3,440
32-2	-014123	53 - 92	120	19	2,325
		2 1/16 - 3 5/8	43/4	3/4	5 127

SERIES 33 STEERING WHEEL PULLER



Technical attributes

The 2-arms steering wheel puller is used to pull off steering wheels with narrow puller slots. The two short puller legs are ideal for sports steering wheels. The long puller legs are used for standard steering wheels. Due to their design, the legs can be adjusted in any direction. Thanks to the slim design of the puller, it is possible to reach into narrow puller slots to remove the steering wheel or other hard-to-reach components.

Benefits

- Anti-slip safety at the spindle head for safe working with wrench.
- Spindle outlet to protect the thread
- Universally applicable for a variety of steering wheel types thanks to different lengths of arms.
- A separate protective cap for the steering column thread is included.

#	4 021176	\Box	$ \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad$	SW ⊷	i
	EAN	mm/inch	mm/inch	mm/inch	kg/lb
33	-014208	41 - 83	122	17	0,745
		1 5/8 - 3 1/4	3 1/2 5 1/8	11/16	1,643

SERIES 34 STEERING WHEEL PULLER



Technical attributes

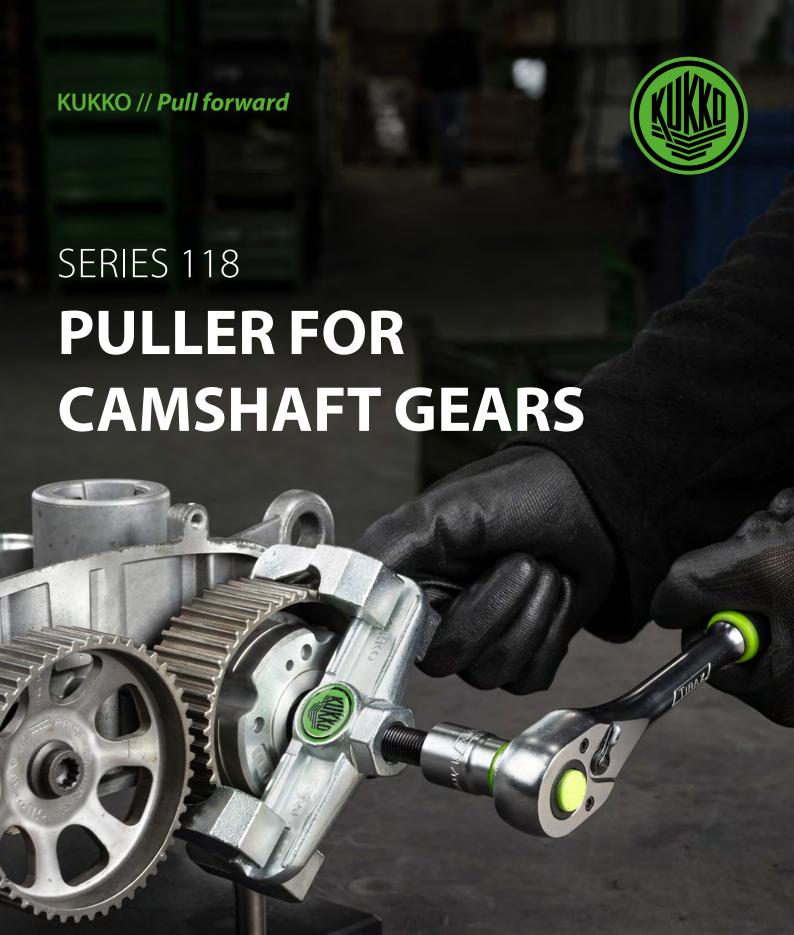
The 2-arm steering wheel puller is used to pull off steering wheels with large puller slots and hard-to-reach components. The 34-0 model is equipped with a pair of short puller legs. The 34-1 model has an additional pair of long puller legs. Due to their design, the legs can be adjusted in any direction. Thanks to the sturdy design of the puller, it is possible to reach into large puller slots to reach the steering wheel.

Benefits

- Anti-slip safety (spindle neck) at the spindle head for safe working with wrench
- · Spindle outlet to protect the thread
- · Separate protective cap for the steering shaft thread is attached

#		宀	ψl	SW 	i
	EAN	mm/inch	mm/inch	mm/inch	kg/lb
34-0	-865879	28 - 90	85	17	0,68
		1 1/8 - 3 9/16	3 3/8	11/16	1,499
34-1	-865886	28 - 90	85	17	0,96
		1 1/8 - 3 9/16	3 3/8	11/16	2,117





DEPLOYMENT

The pullers for camshaft wheels of series 118 are equipped with sliding, always parallel puller arms and are used for pulling spoke camshaft wheels in automotive workshops. Thanks to the four special puller arms, particularly safe, non-destructive disassembly is guaranteed. Usable up to a maximum span of 115 mm and a maximum reach of 43 mm.

7

Benefits

- · Special puller arms for ideal adaptation to camshaft gears
- · Anti-slip safety (spindle neck) at the spindle head for safe working with wrench.
- · Spindle exit to protect the thread

ASSEMBLY OF A PULLER FOR CAMSHAFT GEARS



APPLICATION EXAMPLES



Both photos show the extraction process of a camshaft gear with the 118-0 using the single-finger claws.

SERIES 118 PULLER FOR CAMSHAFT GEARS



The camshaft puller with sliding, always parallel puller arms is used for pulling spoke camshaft wheels in the automotive workshop. Equipped with four special puller arms, the external puller guarantees particularly safe, non-destructive disassembly.

Benefits

- Special puller arms for ideal fitting on camshaft gears
- Anti-slip safety (spindle neck) at the spindle head for safe work with wrench.
- · Spindle outlet to protect the thread

#	4021176		(†)	SW 	Þ	Max. tensile force	Max. tractive force	
	EAN	mm/inch	mm/inch	mm/inch	Nm/ft lb	kN	t/US t. sh.	kg/lb
118-0	-860904	28 - 115 1 1/8 - 4 1/2	43 1 11/16	17 11/16	35 25.82	20	2 2.20	1,26 2,778
118-1	-989636	42 - 115 1 5/8 - 4 1/2	43 1 11/16	17 11/16	35 25.82	20	2 2.20	1,28 2,822



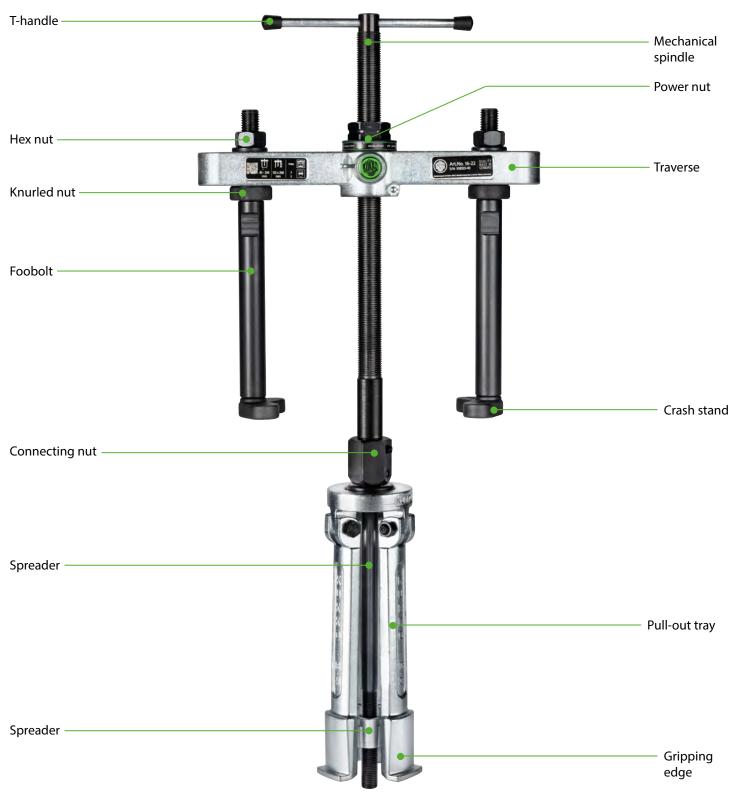


Cylinder sleeves protect the engine block from wear. As wear parts, the sleeves must be replaced over time. For removing wet cylinder liners as well as similar components in trucks, cars, and stationary engines, KUKKO recommends the series 16. The combination of internal puller and counter stay guarantees a powerful and gentle extraction. Furthermore, the integrated Power Nut enables energy-saving work without significant friction loss.

Benefits

- · The mechanical spindle allows for safe and fast extraction of bearings even when they are tightly seated on the back wall.
- · The friction resistance of the counter stay nut is minimized by a built-in pressure bearing.
- The pullers are suitable for large cylinder sleeves and bearings.
- · The foot bolts provide a particularly firm grip when pulling off.

ASSEMBLY OF A CYLINDER PULLER



ASSORTMENT OVERVIEW









SETS





The suitcase sets of the K-16-A series with 2-arm crossbar and K-16-B with multi-crossbar include an application-oriented assembly for immediate and universal use in cylinder bush extraction.

MULTI-TRAVERSE



The new Multi-Traverse of the series 68 offers space for up to four foot bolts. This guarantees a larger contact area and consequently a more uniform distribution of forces.

FINE ADJUSTMENT SCALE



Above the crossbar, there is a scale with various numerical values. This adjustment aid ensures that the foot bolts can be adjusted at equal intervals to pull out with the same load.





The knob impresses with its particularly stable construction and large contact area. The knurling ensures easy and powerful operation of the knob.

POWER NUT



The Power Nut by KUKKO guarantees a more energy-saving clamping of tools and workpieces as well as drive without significant friction loss.



EXTENSION OF THE FOOT BOLTS:

The suitcase sets K-16-A and K-16-B contain 2 or 3 extensions for the foot bolts. To increase the reach, simply screw the extensions onto the foot bolts.



EXTENSION OF THE SPINDLE:

The translation is: "When disassembling particularly deeply seated components, the spindle can be extended with a spindle extension."



APPLICATION EXAMPLES



A look inside when removing a cylinder sleeve



With three foot bolts on the multi traverse, you have an optimal stand during the extraction process with the cylinder bush puller 16-2.

SERIES 16 CYLINDER SLEEVES PULLER



The cylinder sleeves pullers of series 16 are used for pulling out wet cylinder liners in trucks, cars, as well as stationary engines and similar parts. Three spreading bodies guarantee optimal adjustment of the internal extractor to the respective application. Series 16 impresses with the integrated POWER NUT Technology in the crossbar, which allows for exerting force that would otherwise only be possible with hydraulic systems. The counter stay, with its support feet, is particularly well suited for large cylinder sleeves and ball bearings, etc., and ensures a firm stand during extraction. The knurled nut provides the crossbar with a large contact surface for uniform and powerful extraction.

Benefits

- Pullers are suitable for large cylinder sleeves and bearings and guarantee a firm stand when pulling out.
- Knurled nut provides a large contact area for even and powerful extraction.
- The Power Nut minimizes friction resistance while simultaneously allowing forces that can otherwise only be achieved with hydraulic spindles.
- The mechanical spindle allows bearings that are tightly seated on the rear wall to be safely and quickly extracted.

#	4 021176	<u>m</u>		‡ mm	ğ İ	Max. tensile force	Max. Tractive force		SW 		Included in the set
	EAN	mm/inch	mm/inch	mm/inch	mm/inch	kN	t/US t. sh.	nominal dimension	mm/inch	kg/lb	
16-21	-251559		60 - 155 2 3/8 - 6 1/8	190 7 1/2	70 2 3/4	70	7 7.72	G 1/2	32 1 1/4	3,47 7,651	K-16-A, K-16-B
16-22	-251634	85 - 250 3 3/8 - 9 13/16				70	7 7.72	G 1/2	32 1 1/4	4,325 9,537	K-16-A
16-23	-060731	85 - 250 3 3/8 - 9 13/16				70	7 7.72	G 1/2	32 1 1/4	5,96 13,142	K-16-B
16	-008023	85 - 250 3 3/8 - 9 13/16	60 - 155 2 3/8 - 6 1/8	120 4 3/4	70 2 3/4	70	7 7.72	G 1/2	32 1 1/4	7,6 16,758	K-16-A
16-2	-060717	85 - 250 3 3/8 - 9 13/16	60 - 155 2 3/8 - 6 1/8	120 4 3/4	70 2 3/4	70	7 7.72	G 1/2	32 1 1/4	0 0,000	K-16-B

\triangle

K-16-A 10-PART CYLINDER SLEEVE PULLER SET



The 10-piece Cylinder Sleeve Puller Set K-16-A is used to extract wet cylinder sleeves from trucks, cars, as well as stationary engines and similar parts. Three spreading bodies ensure an optimal fit of the internal extractor for the respective application. The K-16 series impresses with its integrated POWER NUT Technology in the crossbar, which allows for a force that would otherwise only be achieved with hydraulic systems. The counter stay is particularly well suited for large cylinder sleeves and ball bearings, etc., ensuring a firm stand during extraction. The knurled nut provides the crossbar with a large surface area for uniform and powerful extraction.

Benefits

- Knurled nut provides a large contact area for even and powerful extraction
- The Power Nut minimizes friction resistance while simultaneously allowing forces that can otherwise only be achieved with hydraulic spindles.
- The mechanical spindle allows bearings that are tightly seated on the rear wall to be safely and quickly extracted.

Technical attributes

#			$\overline{\mathbf{Q}}$	Max. tensile force	Max. tractive force		Components
	EAN	mm/inch	mm/inch	kN	t/US t. sh.	kg/lb	
K-16-A	-711664	60 - 155 2 3/8 - 6 1/8	85 - 250 3 3/8 - 9 13/16	70	7 7.72	11,76 25,931	16-21, 16-22, 16- 22-V, 19-7-P

K-16-B 12-PIECE CYLINDER BUSHING EXTRACTOR SET



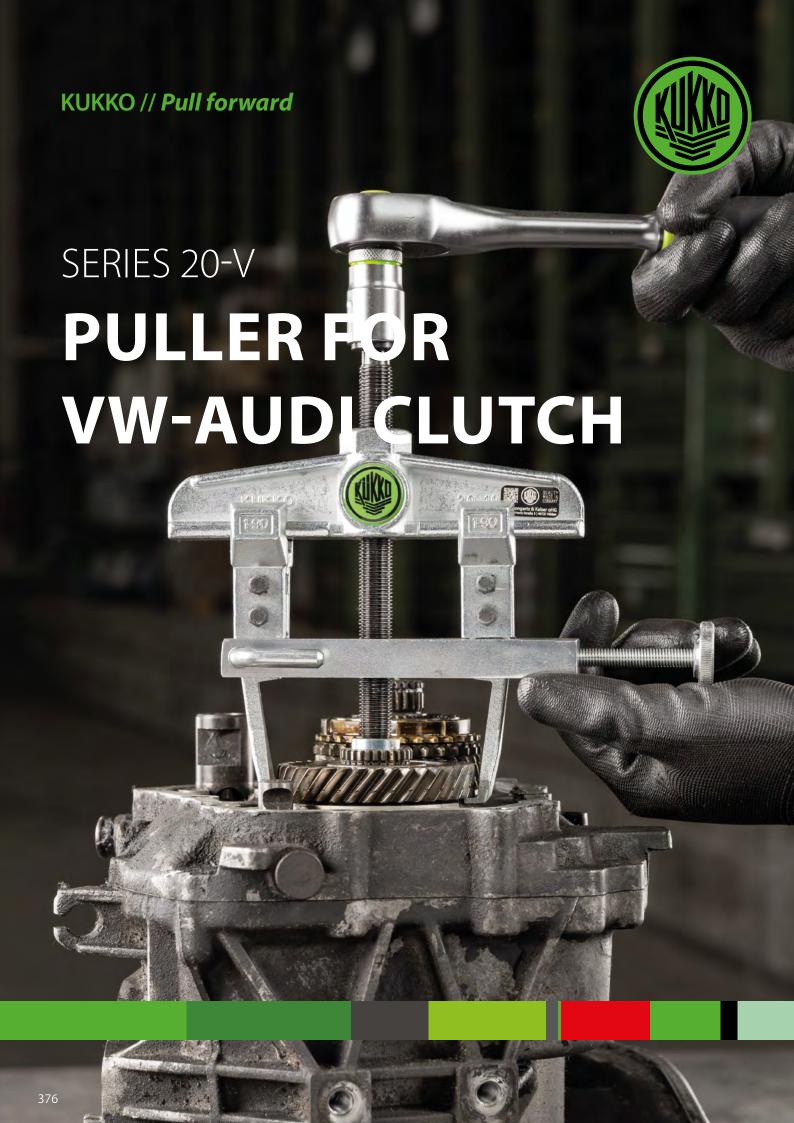
The 12-piece cylinder bushing puller set K-16-B is used for extracting wet cylinder liners in trucks, cars, as well as stationary engines and similar parts. Three spread bodies ensure an optimal fitting of the internal extractor to the respective application. The K-16 series convinces with the POWER NUT Technology integrated into the crossbar, which allows exerting effort that would otherwise only be possible with hydraulic systems. The counter stay, with its stopping feet, is particularly suitable for large cylinder bushings and ball bearings, ensuring a particularly firm position during extraction. The knurled nut provides a large support surface for the crossbar for a uniform and powerful extraction. The multi-crossbar allows for the attachment of up to four foot bolts for an even more uniform force distribution. For precise adjustment assistance, there is a scale with numerical values above the crossbar.

Benefits

- Knurled nut provides a large contact area for even and powerful extraction
- The Power Nut minimizes friction resistance while simultaneously allowing forces that can otherwise only be achieved with hydraulic spindles.
- The mechanical spindle allows bearings that are tightly seated on the rear wall to be safely and quickly extracted.

#	#021176		<u> </u>	Max. tensile force	Max. tractive force		Components
	EAN	mm/inch	mm/inch	kN	t/US t. sh.	kg/lb	
K-16-B	-711671	60 - 155 2 3/8 - 6 1/8	85 - 250 3 3/8 - 9 13/16	70	7 7.72	13,82 30,473	16-21, 19-7-P, 16- 23, 16-22-V





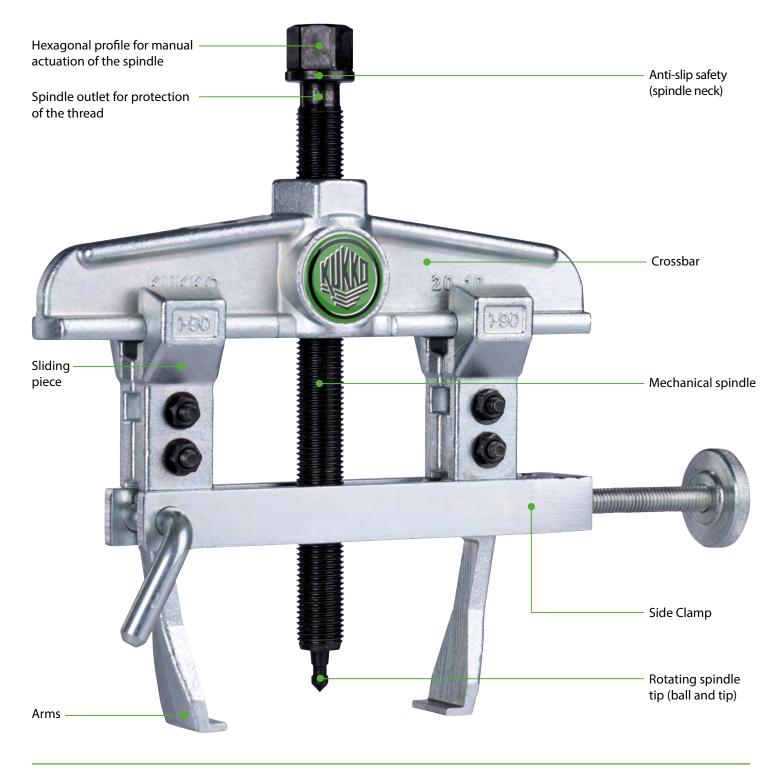
DEPLOYMENT

The 2-arm puller of series 20-V is used for extracting gearbox gears for the VW/Audi clutch-gear combination from model year 2007 onwards. With powerful, slender special hooks and a later fixable lateral clamping device, series 20-V is an ideal problem solver. Aside from models from VW and Audi, it is also suitable for many other gears and ball bearings where working with standard pullers 🚗 is impossible.

Benefits

- Screw connection allows easy loosening and particularly tight fastening of the arms with an allen key
- Application also for eccentric components using freely movable puller arms sliding on the crossbar.
- Optimal adjustment of the spindle to the shaft through a 2-sided spindle tip (ball and tip)
- Hexagonal profile on the crossbar for safe counter-holding
- Anti-slip safety (spindle neck) at the spindle head for safe working with wrench.

ASSEMBLY







Removing a gear wheel with the 20-10-V



The clamp presses the arms against the part to be removed.



Detail view of the special hook shape

SERIES 20-V 2-ARM PULLER FOR GEAR WHEELS FOR VW/AUDI CLUTCH-TRANSMISSION COMBINATION



The 2-arm puller for gear wheels is used for removing gear wheels for the VW/Audi clutch-transmission combination from the year 2007 onwards in craft, workshop, and industry. With powerful, slim special hooks and a subsequently fixable lateral clamping device, the series 20-V is an ideal problem solver. Apart from models from VW and Audi, it is also usable for many other gears and ball bearings where work with standard pullers is impossible.

Benefits

- The screw connection allows for easy loosening and particularly tight fastening of the arms with an allen key
- Application also for eccentric components through freely movable, sliding puller arms on the crossbar.

#	 	$\qquad \qquad $		SW →	P	Max. tensile force	Max. tractive force	i
	EAN	mm/inch	mm/inch	mm/inch	Nm/ft lb	kN	t/US t. sh.	kg/lb
20-10-V	-907944	0 - 120 0 - 4 3/4	100 3 15/16	17 11/16	80 59.01	45	4.5 4.96	1,59 3,506



SERIES K-226 15-PIECE PULLER DEVICE FOR TRUCK AXLES IN CASE



The 15-piece puller for truck axles in the K-226 series case is used for pulling wheel hubs on SAF and BPW axles for trucks and commercial vehicles in the automotive industry. In addition to pullers, it also includes a hydraulic additional press and several adapters that allow application on most common models.

Benefits

 Printing pieces and extensions are already included in the set and expand the application.

Technical attributes

#	4 021176				Max. tensile force	Max. tractive force		Components
	EAN	mm/inch	mm/inch	nominal dimension	kN	t/US t. sh.	kg/lb	
K-226-4/12	-035753	336 13 1/4	116 - 380 4 9/16 - 14 15/16	M18x1,5, M20x1,5, M22x1,5	150	15 16.53	25,14 55,434	9-2, 18-4

SERIES 18-4SAF 7-PIECE PULLER SET IN METAL CASE FOR SAF AXLES



The 7-piece puller set in the metal case for SAF axles of the series 18 is used for pulling axles on trucks in the automotive industry. The set is particularly suitable for SAF axles of the types SK9030 / 9037 / 9042 / 11030 / 11242 due to its composition of puller, extension, and adapter.

#	4 021176	†† †	†	SW	□	Max. tensile force	Max. tractive force	i	Components
	EAN	mm/inch	mm/inch	mm/inch	nominal dimension	kN	t/US t. sh.	kg/lb	
18-4SAF	-465246	535 21 1/16	116 - 380 4 9/16 - 14 15/16	36 1 7/16	M18 x 1,5	150	15 16.53	24,43 53,868	18-4, 15-4, 19-4-P

SERIES 102 PISTON PIN PRESS FOR ASSEMBLY AND DISASSEMBLY



The piston pin presses of the series 102 are used for the gentle insertion and extraction of piston pins in the automotive industry. The tool enables safe assembly and disassembly of piston pins via pressure pieces without damaging the piston in the process. Item 102-0 contains two additional pressure pieces, while 102-1 is designed for large piston ring diameters and includes three additional pressure pieces.

Benefits

- Damage-free work on the piston
- Customizable versatile application

Technical attributes

#	4021176	Ø	i
	EAN	mm/inch	kg/lb
102-0	-170874	38 1 1/2	0,17 0,375
102-1	-022791	100 3 15/16	1,335 2,944

SERIES 126 MONTAGE AND DISASSEMBLY TOOL FOR BRAKE CALIPERS, BRAKE PADS, BRAKE PISTONS, AND PULLEYS



The brake caliper tool assortment of series 126 is used for a quick and time-saving repair on brake calipers in the automotive sector. The assortment includes a piston retraction device, brake pad puller, brake piston retaining clip, brake piston pliers, brake caliper brush, and brake caliper file for general use in vehicle maintenance.

Benefits

- Different tools for different applications
- The set offers a complete compilation for universal repair.

#	4021176	i
	EAN	kg/lb
126-10	-534966	2,46 5,424
126-01	-496271	0,15 0,331
126-02	-496356	0,06 0,132
126-03	-496431	0,28 0,617
126-04	-534881	0,096 0,212
127	-492051	0,1 0,221

SERIES 126-15 BRAKE CALIPER TOOL



The brake piston resetter from the 126-15 series is used to reset pistons on 6-piston brake callipers in the automotive industry. The heavy-duty design of the resetter also enables the resetting of high-performance brake callipers from heavy or very powerful brake callipers. The brake piston resetter 126-15 is suitable for brakes with more than one brake cylinder (e.g. VW Touareg, Crafter, Ford Transit etc.).

Benefits

- Compatible with all common vehicle types without an integrated handbrake locking device.
- The puller is suitable for the following vehicles: Touareg, Phaeton, Porsche Cayenne, Audi A8, Q7, BMW M3, etc.



Technical attributes

#		⊷				i
	EAN	mm/inch	mm/inch	mm/inch	mm/inch	kg/lb
126-00	-487774	20 - 85 13/16 - 3 3/8	185 7 5/16		66 2 5/8	1,845 4,068
126-15	-018954	20 - 90 13/16 - 3 9/16	174 6 7/8	115 4 1/2	290 11 7/16	0 0,000

SERIES 123 EXTRACTOR LEVER FOR DISC BRAKE PADS



The extractor levers for brake pads of series 123 are used in the automotive industry to remove stuck brake shoes from the fixed caliper of disc brakes.

Benefits

- Simple application with high efficiency
- Article 123 is specifically designed for Mercedes models.

#	4021176	l ← L	i
	EAN	mm/inch	kg/lb
123	-270789	400 15 3/4	0,595 1,312
123-2	-431586	400 15 3/4	0,505 1,114

124-K 2-ARM PULLEY PULLER SET FOR ALL VEHICLE TYPES



The car pulley puller set for all vehicle types is used for removing multiribbed pulleys with a diameter of up to 195 mm in automotive applications. The 2-arm design allows for space-saving work, which functions in any position and even under full load, thanks to the parallel puller arms.

Benefits

- Universally applicable for most vehicle types
- The flange of the spindle neck prevents the slipping of the key.
- The included hook extensions allow adjustment to all given installation conditions.

Technical attributes

#		sw ⊷	ф		i
	EAN	mm/inch	mm/inch		kg/lb
124-K	-736841	17 11/16	195 7 11/16	M10	2,52 5,557

SERIES 104 STRAP WRENCH FOR OIL FILTER REMOVAL



The strap wrench of series 104 is a spare part used for oil filter removal in crafts, industry, and workshops. The strap can be tightened around the filter to disassemble it without causing damage using the handle.

Benefits

• The sturdy, non-slip fabric tape with rubberized grip ensures smooth disassembly.

#	4021176	Ø	i
	EAN	mm/inch	kg/lb
104	-023606	180 7 1/16	0,26 0,573

←

SERIES 104-32 OIL FILTER WRENCH WITH 32-LINK CHAIN



The oil filter wrench with a 32-link chain from the 104 series is a spare part used for the oil filter removal in crafts, industry, and workshops. The chain can be reliably tensioned to dismantle the oil filter without causing damage.

Technical attributes

#	4921176	Ø		i
	EAN	mm/inch	mm/inch	kg/lb
104-32	-790751	0-110	32	0,36
		0-4 5/16	1 1/4	0,794

SERIES 105 OIL FILTER WRENCH



The oil filter wrenches of series 105 are spare parts used for loosening oil filters and other round screw connections in crafts, industry, and workshops. The variant 105-0 features a robust handle for quick use, while the variant 105-1 has a space-saving square drive for work even in the tightest of spaces.

Benefits

• The steel band is adjustable and universally applicable.

#		Ø	
	EAN	mm/inch	kg/lb
105-0	-023866	70-110 2 3/4-4 5/16	0,33 0,728
105-1	-175749	70-110 2 3/4-4 5/16	0,22 0,485

SERIES 108 OIL FILTER CLAW KEY





The Oil Filter Claw Wrenches are spare parts used for loosening oil filters and other round fasteners in crafts, industry, and workshop. The extremely strong and durable oil filter claws are capable of safely and non-destructively removing even tightly stuck oil filters.

Benefits

• Universal use even in hard-to-reach places

Technical attributes

#		Ø	□			i
	EAN	mm/inch	mm/inch	mm/inch	mm/inch	kg/lb
108-1	-760426	60-100 2 3/8-3 15/16	10 3/8	12,5 1/2	21 13/16	0,38 0,838
108-2	-965487	65-120 2 9/16-4 3/4	10 3/8	12,5 1/2	22 7/8	0,595 1,312
108-3	-967900	90-140 3 9/16-5 1/2	12,5 1/2	12,5 1/2		1 2,205

SERIES 204-44 UNIVERSAL STEERING ARM PULLER FOR MEDIUM AND HEAVY COMMERCIAL VEHICLES



The mechanical universal steering arm puller of series 204-44 is used for pulling steering arms on medium and heavy commercial vehicles. Its solid and stable design provides a variable solution for the robust yet safe removal of steering arms.

Benefits

- With increasing spindle pressure, the arms grip the part to be removed with an automatically increasing force.
- The special robustness makes the steering arm puller the ideal tool for working on trucks.

#		<u></u>	ĦΙ	SW	Max. tensile force	Max. tractive force	
	EAN	mm/inch	mm/inch	mm/inch	kN	t/US t. sh.	kg/lb
204-44	-969539	60 - 90 2 3/8 - 3 9/16	70 2 3/4	24 15/16	10	1 1.10	1,725 3,804

SERIES 101-1 PISTON RING PLIERS



The piston ring pliers of the series 101 are used for spreading piston rings in crafts, industry, and workshops. The piston ring pliers are capable of spreading piston rings without damaging the original shape of the rings.

Benefits

- The design allows for the gentle and uniform pulling apart of piston rings.
- Through the pliers shape, the piston rings can be securely inserted.

Technical attributes

#	4 021176	<mark>L</mark>	$\bigcup_{ \longleftarrow }$		
	EAN	mm/inch	mm/inch	kg/lb	
101-1	-022531	200	50 - 100	0,25	
		7 7/8	1 15/16 - 3 15/16	0,551	
101-2	-022616	240	90 - 150	0,4	
		9 7/16	3 9/16 - 5 7/8	0,882	

SERIES W-133-M BRAKE CALIPER REMOVAL PLIERS



The W-133-M series brake caliper removal tool is used for the easy and damage-free removal of brake calipers in automotive applications. For professional brake maintenance, the removal tool is indispensable.

Benefits

- · Flat and stable design
- Brake pistons can be removed without damaging parts.

Technical attributes

#		1) E	i
	EAN	mm/inch	kg/lb
W-133-M	-895447	19 - 46	0,22
		3/4-1 13/16	0,485

SERIES 101-3 UNIVERSAL PISTON RING PLIERS



The universal piston ring placement pliers are used for the efficient installation of piston rings in the automotive industry. The placement pliers are capable of gently and problem-free mounting of piston rings without overstretching or causing any other damage. The pliers are handy and due to their lightweight adjustability, they are flexible for use with various piston rings.

Benefits

- The precise adjustment of the spread prevents the piston rings from overstretching or breaking
- Wear, oil loss or other damage to piston rings or cylinders are effectively prevented

#	4021176	←	$\bigcap_{ \mathbf{x} = 1}$	i
	EAN	mm/inch	mm/inch	kg/lb
101-3	-974489	220 8 11/16	60 - 140 2 3/8 - 5 1/2	0,31 0,684



SERIES URANOS MOBILE ENGINE CONDUCTOR "URANOS"



The motor conductor "URANOS" is used for directing the angle during the installation and removal of engines, transmissions, and batteries of all kinds in industry and workshop. By operating the hand chain, the motor conductor can be universally and easily adjusted to ensure smooth operation on the engine. The self-locking worm gear and the 3-point suspension provide the necessary stability and safety.

Benefits

- The actuation of the hand chain can occur in all angular positions without impairment.
- The necessary tilt is securely held by the built-in, self-locking worm gear as soon as the operation of the hand chain ceases.

Technical attributes

#		∫ <u>Ī</u> ∟	$\sqrt[A]{\overline{\underline{l}}}L$	$\sqrt[4]{ar{1}}$ r	kg	i
	EAN	mm/inch	mm/inch	mm/inch	kg	kg/lb
W-3180	-318007	1.900 74 13/16	700 27 9/16	500 19 11/16	2.000	32 70,560
W-3188	-318809	1.245 49 1/64	500 19 11/16	345 13 9/16	500	11,85 26,129

SERIES W-6066 MOTOR MOUNTING BRACKETS



The motor mounting bracket of the W-6066 series is used for double-sided support of various engines in industry and workshop. It consists of 1 driven bearing mount, 1 counter bearing mount, 2 beams, 4 support arms, 4 clamping arms, and 2 connecting pipes, and is suitable for various engines thanks to interchangeable clamping arms.

Benefits

- Adaptation to many engines possible
- · Highest productivity through simple and fast handling
- Continuous rotation of the motor by 360° is possible in both directions.

#	4 021176			<u> </u>		kg	i
	EAN	mm/inch	mm/inch	mm/inch	mm/inch	kg	kg/lb
W-6066	-120785	1.950 76 3/4	900 35 7/16	1.070 42 1/8	667 26 1/4	1.200	450 992,250

SERIES W-6067 MOTOR MOUNTING BRACKETS



The motor assembly stand of the W-6067 series is used for one-sided support of various engines in industrial and workshop environments. It consists of 1 driven bearing block, 1 clamping rail with a disc, tabs, and screws, as well as 1 support arm and is suitable for different engines thanks to replaceable clamping arms.

Benefits

- · Adaptation to many engines possible
- · Highest productivity through simple and fast handling
- Continuous rotation of the motor by 360° is possible in both directions.

Technical attributes

#	4021176			$\overline{\underline{\downarrow}}$	—————————————————————————————————————	<u> </u>	kg	
	EAN	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	kg	kg/lb
W-6067	-120853	1.120 44 1/8	950 37 3/8	1.070 42 1/8	930 36 5/8	130 5 1/8	600	204 449,820

SERIES YHU MOBILE HYDRAULIC TRANSMISSION JACK "RHINO"



The hydraulic transmission jack RHINO is used for work on car and truck transmissions, clutches, and differentials. The two-axis swivel base plate with adjustable mounts and chains serves to align the pickups and tool universal mount up to 1.5 tons.

Benefits

- The lever actuation is swiveling 360° and removable, allowing for ergonomic operation from the work area.
- The overload protection and the lowering mechanism for controlled load lowering reduce the risk of injuries or damages.

#	 4021176		<u> </u>			kg	
	EAN	mm/inch	mm/inch	mm/inch	mm/inch	kg	kg/lb
YHU-S	-060113	652 25 11/16	890 35 1/32	1.105 43 1/2	725 28 9/16	1.500	146 321,930

SERIES 65 SPRING COMPRESSORS



The universal spring compressors of series 65 are used for the removal and tensioning of coil springs in the automotive sector. Spring compressors are simple yet essential tools that allow for the safe removal and installation of springs and shock absorbers. The universal design makes it applicable for use on most vehicles.

Benefits

 The adjustable connecting bracket makes it easier to apply and tension even in hard-to-reach places.

Technical attributes

#	######################################	L ⊷ mm/inch	Ø[:₩₩ mm/inch	mm/inch	sw mm/inch	Max. tensile force kN	Max. tractive force t/US t. sh.	kg/lb
65-0	-020636	260 10 1/4	110 - 180 4 5/16 - 7 1/16	100 - 200 3 15/16 - 7 7/8	27 1 1/16	20	2 2.20	3,02 6,659
65-1	-020711	360 14 3/16	110 - 180 4 5/16 - 7 1/16	100 - 300 3 15/16 - 11 13/16	27 1 1/16	20	2 2.20	3,295 7,265
65-2	-020896	460 18 1/8	110 - 180 4 5/16 - 7 1/16	100 - 400 3 15/16 - 15 3/4	27 1 1/16	20	2 2.20	3,615 7,971

SERIES 66 MACPHERSON SPRING COMPRESSOR



The \"MacPherson\" spring compressors of series 66 are used for removing and tensioning coil springs in automotive applications. Spring compressors are simple but essential tools that enable the safe removal and installation of springs and shock absorbers. The design \"MacPherson\" is also suitable for the heaviest springs.

Benefits

• The adjustable connecting bracket makes it easier to put on and tighten even in hard-to-reach places.

#	######################################	L mm/inch	Ø ṭ₩₩	mm/inch	sw mm/inch	Max. tensile force kN	Max. tractive force t/US t. sh.	kg/lb
	L/IIV	11111/111011	mini, inch	IIIII/IIICII	11111/111C11		(/ 0.5 t. 311.	_
66-1	-020971	300 11 13/16	110 - 180 4 5/16 - 7 1/16	100 - 250 3 15/16 - 9 13/16	24 15/16	25	2.5 2.76	2,99 6,593
66-2	-170201	450 17 11/16	110 - 180 4 5/16 - 7 1/16	100 - 400 3 15/16 - 15 3/4	24 15/16	25	2.5 2.76	3,54 7,806
66-3	-170386	450 17 11/16	110 - 180 4 5/16 - 7 1/16	100 - 400 3 15/16 - 15 3/4	24 15/16	25	2.5 2.76	4,29 9,459

SERIES 100 PISTON RING CLAMPS



The piston ring tension bands of the series 100 are used to tension the piston rings during the installation of the pistons in the cylinders in automotive applications. The tension bands in various sizes are ideally suited for wide application in the automotive industry.

ide application in the automotive industry.

Benefits

- Simple application for the safe installation of pistons
- Easy operation with hex key

Technical attributes

#		$\bigcup_{ \longleftarrow }$	<u> </u>	i
	EAN	mm/inch	mm/inch	kg/lb
100-1	-022203	57 - 125 2 1/4 - 4 15/16	80 3 1/8	0,285 0,628
100-2	-022388	90 - 175 3 9/16 - 6 7/8	80 3 1/8	0,32 0,706
100-3	-022463	90 - 175 3 9/16 - 6 7/8	165 6 1/2	0,595 1,312

SERIES 103-1 VALVE SPRING COMPRESSOR



The valve spring compressors of series 103 are used for the damage-free installation and removal of valves for overhead cam engines in the automotive industry. The compressors allow for a safe removal of valves by tensioning the valve spring.

Benefits

- Suitable for both installation and removal.
- Safe and gentle work on the engine

#	4 021176	L ←—→		i
	EAN	mm/inch	mm/inch	kg/lb
103-1	-022876	290 11 7/16	60 - 230 2 3/8 - 9 1/16	1,21 2,668



SERIES 145 SPREADER FOR SUSPENSION AND STEERING PARTS



The spreaders for strut and steering components of series 145 are used for the safe and completely damage-free widening of the mountings of struts or steering parts from threads in the automotive and workshop industries. They are specifically designed for the gentle spreading of clamping fits on aluminum chassis. Especially in very tight and unclear spatial conditions, series 145 becomes an ideal problem solver due to its compact and handy design.

Benefits

- The installation and removal of the shock absorber is achieved in a single step and without additional effort.
- An accidental slipping of the tool is impossible due to the fastening on the cross or support arm.

Technical attributes

#	4021176	1		sw ⊷	i
	EAN	mm/inch		mm/inch	kg/lb
145-2	-123337	40 1 9/16	M10	13 1/2	0,245 0,540
145-3	-001420	50 1 15/16	M12	13 1/2	0,31 0,684

SERIES 48 ONE-HAND TENSIONING TERMINAL PULLER



The handy 2-arm puller with self-centering arms is used to remove battery terminals. It can loosen any component that sits on a shaft and is freely accessible from the outside. The narrow arms are suitable for tight, hard-to-reach spots. The freely movable pin on the T-handle ensures comfortable one-handed tightening of the spindle in confined spaces. The pulling process occurs in direct contact with the part to be tightened, thereby ensuring a controlled application of force.

Benefits

- Self-centering of the arms by manually tightening the spindle (Autogrip Technology)
- Integrated, freely movable pen on the T-handle ensures manual spindle drive in the tightest spaces
- Easy one-handed operation for flexible working
- The slim design of the arms allows access to hard-to-reach places.
 No additional tool is required for the pulling process.

#	4 021176	$\bigoplus_{i \in \mathcal{I}_i}$	\Box	Max. tensile force	Max. tractive force	
	EAN	mm/inch	mm/inch	kN	t/US t. sh.	kg/lb
48	-170539	0 - 60 0 - 2 3/8	40 1 5/8	15	1.5 1.65	0,225 0,496

SERIES 204-V 2-ARM BEARING PULLER WITH SIDE CLAMP AND ADAPTER



The 2-arm bearing puller with lateral clamp is used for removing particularly stuck ball bearings, bearing rings, and workpieces. It can loosen any component that sits on a shaft and is freely accessible from the outside. The additionally included adapter fits all common axle holes. Thanks to the clamp, the pressing force of the puller arms is increased many times over. This prevents the puller from slipping. When the clamp is tightened, the sharp claws of the puller arms grip under the part to be removed and loosen it even before the actual removal process begins.

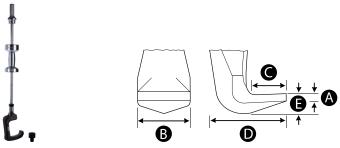
Benefits

- The lateral clamp ensures that the puller arms are pressed particularly firmly against the part to be pulled off.
- 2-fold exertion of force from above and the side ensures 100% secure grip
- The adapter fits all common axle holes such as VAG and other models.
- The slim design of the arms allows access to hard-to-reach areas.

Technical attributes

#	4 021176		\Box	SW 	P	Max. tensile force	Max. tractive force	
	EAN	mm/inch	mm/inch	mm/inch	Nm/ft lb	kN	t/US t. sh.	kg/lb
204-V	-974533	26 - 90 1 5/8 - 3 5/8	100 3 7/8	22 7/8	75 55.32	40	4 4.41	2,75 6,064

SERIES 229-1 HOOK CLAW WITH SLIDING HAMMER



The sliding hammer with specially profiled hook of series 229 is used for loosening the control arm from the ball joint clamp and for bodywork in automotive and industry.

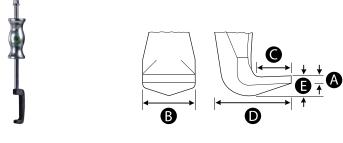
Benefits

· Specialized tool for safe and gentle disassembly

Technical attributes

#	4 021176							
	EAN	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	kg	kg/lb
229-1	-995002	25 1	40 1 9/16	85 3 3/8	700 27 9/16	340 13 3/8	5	12,095 26,669

SERIES 230-I PULLING TOOL FOR INJECTORS



The extraction tool for injectors of series 230-I is used for removing fuel injectors from diesel engines in cars during service and automotive applications. The ergonomically shaped, massive sliding piece of the sliding hammer allows optimal force transfer and achieves a strong shock effect. It also ensures contactless and gentle extraction.

Benefits

- The shape of the sliding piece allows for a high impact weight of the sliding hammer with simple application.
- The internal stop point prevents crushing and ensures a safe working process.

#	 	Į.	<u></u>					i
	EAN	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	kg	kg/lb
230-I	-977626	15	20	27	370	250	1.7	2,71
		9/16	13/16	1 1/16	14 9/16	9 13/16		5,976







CUTTING& LOOSING

KUKKO offers the perfect solution for every application, whether for blasting stuck nuts, restoring screw connections, cutting discs, removing adhesive weights, producing seals, punching and stamping a wide variety of materials, removing broken parts or cleaning nozzles.

The cutting & loosening activity includes

- Nut splitter
- Thread repair
- Thread files
- Disc cutters
- Soft scraper
- Iron handle hole
- Shears
- Screw punch
- Screw extractors
- Nozzle reamer sets



DEPLOYMENT

If nuts come into contact with moisture over an extended period, they start to rust. Rusted components of screw connections can lead to impairments in structures of any kind. Depending on the degree of corrosion, the nut can no longer be unscrewed without damaging the threaded bolt. Additionally, nuts lose their shape during use, making them ungrippable with a wrench. The solution to these problems is provided by the nut splitters from KUKKO.

Benefits

- Detaching the mother can be done without damaging the threaded bolt.
- Pullback Technology guarantees a smooth retraction of the chisel from the blasted nut.
- Very sharp edges due to facet grinding
- Measuring tools are available as spare parts and can be quickly replaced in case of damage.

ASSEMBLY





TIP:





SERIES 54

Two-sided, mechanical nut splitter



54-2

The two-sided nut splitter breaks the nut apart due to double explosive action in just one step.

SERIES 55

One-sided, mechanical nut splitter



55-0

The single-edged, mechanical nut splitter is used in confined spaces where there is little room around the nut.

SERIES 56

Single-sided, fat-hydraulic nut splitter



56-1

Thanks to the fat hydraulic system, only a small amount of force is required for the single-sided fat hydraulic nut splitter.

SERIES Y-57 - THE HYDRAULIC NUT SPLITTER



Y-57

For maximum work convenience, the nut splitter is also available with a pump hydraulic drive. The hydraulics guarantee an enormous cutting force of up to 90 t.

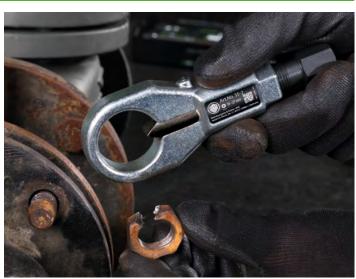
The set of the Y-57 series includes: A pump hydraulic nut splitter, a replacement chisel, and two internal hexagonal wrenches for changing the chisel.



APPLICATION EXAMPLES



By pulling the spindle, the chisel is pressed into the nut to be split.



After the explosive release, the mother can be easily removed from the thread.

SERIES 54 TWO-EDGED, MECHANICAL NUT SPLITTER



The two-edged mechanical nut splitters are used for splitting irreversibly jammed, rusty, or over-tightened nuts with a tensile strength of up to 800 N/mm². In this splitting process, the threaded pin remains undamaged. The two sharp edges of the chisel, which are ground with a facet, penetrate deeply into the nut when the spindle is tightened until it is split. Thanks to the double splitting effect, only one working step is necessary.

Benefits

- Removing the mother is possible without damaging the threaded bolt.
- Pullback Technology guarantees an easy retraction of the chisel from the blasted nut.

Technical attributes

#		O _I	Ö	SW 	Ħ	i
	EAN	mm/inch		mm/inch	mm/inch	kg/lb
54-2	-170614	10 - 27 3/8 - 1 1/16	8	17 11/16	14 9/16	0,55 1,213
54-3	-170799	17 - 36 11/16 - 1 7/16	8	19 3/4	16 5/8	0,72 1,588

K-54-B 8-PIECE MECHANICAL NUT SPLITTER SET



The 8-part mechanical nut splitter set of the K-54-B series is used for splitting unloosable, rusted, or overtightened nuts with a tensile strength of up to 800 N/mm2. During this splitting process, the threaded pin remains undamaged. The two sharply cut edges of the splitter chisel penetrate deeply into the nut when the spindle is tightened until it is split. Thanks to the double splitting effect, only one working step is necessary. The practical ready-to-use set contains: two double-edged mechanical nut splitters for sizes 10-36 mm, two new splitter chisels, and two box wrenches. The set includes everything needed for nut splitting. No additional accessories are required.

Benefits

- Application-oriented compilation for immediate, universal use
- By storing it in the L-Boxx, the completeness of the set can be easily monitored.
- · Double explosive effect saves time

#	4021176		Q _I	Ô		Components
	EAN	mm/inch	mm/inch		kg/lb	
K-54-B	-019531	16 5/8	10 - 36 3/8 - 1 7/16	8	2,15 4,741	54-2, 54-3, 54-2-M, 54-3-M

SERIES 55 SINGLE-EDGED, MECHANICAL NUT SPLITTER





The single-blade mechanical nut splitter is used for splitting stuck, rusted, or over-tightened nuts with a tensile strength of up to 800 N/mm². During this splitting process, the threaded pin remains undamaged. The sharp edge of the chisel, which has a faceted grinding, penetrates deeply into the nut when the spindle is tightened, until the nut is split. In confined environmental conditions where there is only limited space around the nut, the single-blade nut splitter is exactly the right choice.

Benefits

- Removing the mother is possible without damaging the thread bolt.
- Pullback Technology guarantees easy retraction of the chisel from the exploded nut.

Technical attributes

#	 	O	Ô	SW 	Ä		Included in the set
	EAN	mm/inch		mm/inch	mm/inch	kg/lb	
55-0	-019906	4 - 10 3/16 - 3/8	8	14 9/16	8 5/16	0,1 0,221	-
55-1	-020063	10 - 18 3/8 - 11/16	8	17 11/16	12 1/2	0,22 0,485	K-55-B
55-2	-020148	19 - 27 3/4 - 1 1/16	8	17 11/16	14 9/16	0,435 0,959	K-55-B
55-3	-020223	27 - 36 1 1/16 - 1 7/16	8	19 3/4	16 5/8	0,66 1,455	K-55-B
55-4	-020308	32 - 50 1 1/4 - 1 15/16	8	32 1 1/4	26 1 1/32	2,55 5,623	-

K-55-B 4-PIECE MECHANICAL NUT SPLITTER SET



The 7-piece mechanical nut splitter set of series K-55-B is used for splitting stubborn, rusted, or overtightened nuts with a tensile strength of up to 800 N/mm². During this splitting process, the threaded pin remains undamaged. The two sharp edges of the splitter chisel, which are angled, penetrate deeply into the nut when the spindle is tightened until it is split. In restricted environmental conditions, where there is little space available around the nut, the single-blade nut splitter is exactly the right choice. The practical ready-to-use set includes: three single-blade mechanical nut splitters for sizes 10-36 mm, three new splitting chisels, and a thread file for reworking and cleaning damaged internal and external threads. The set contains everything needed for nut splitting. No additional accessories are required.

Benefits

- · Application-oriented assembly for immediate, universal use
- By storing it in the L-Boxx, the completeness of the set can be easily overviewed.

#	######################################	, ⊶ ∭ mm	○			Components
	EAN	mm/inch	mm/inch		kg/lb	
K-55-B	-405877	16 5/8	10 - 36 3/8 - 1 7/16	8	2,15 4,741	55-1, 55-2, 55-3, 97-1, 55-1- M, 55-2-M, 55-3-M

SERIES 56 SINGLE-EDGE, HYDRAULIC NUT SPLITTER



The single-sided, fat-hydraulic nut splitters are used for splitting particularly large, stuck, rusted, or overtightened nuts of quality classes 5, 6, 8, and 10. During this splitting process, the threaded pin remains undamaged. Thanks to the fat hydraulics, only a small amount of force is required. For better ease of use, the nut splitter is slightly angled.

Benefits

- Removing the mother is possible without damaging the thread bolt.
- Fat hydraulic ensures a significant reduction in workload.
- Also suitable for use in pipeline construction and other industries.

Technical attributes

#	4021176	○		SW 	Ħ	P	i
	EAN	mm/inch		mm/inch	mm/inch	Nm/ft lb	kg/lb
56-1	-020483	7 - 24 1/4 - 15/16	10	13 1/2	18 11/16	60 44.26	0,86 1,896
56-2	-020551	22 - 36 7/8 - 1 7/16	10	17 11/16	30 1 3/16	70 51.63	2,865 6,317
56-3	-111501	27 - 46 1 1/16 - 1 13/16	10	24 15/16	37 1 7/16	50 36.88	6,6 14,553

SERIES Y-57 4-PIECE, PUMP-HYDRAULIC NUT SPLITTER SET



The 4-piece hydraulic nut splitter sets are used for splitting stubbornly stuck, rusted, or overtightened nuts of all quality classes. During this splitting process, the threaded pin remains undamaged. The special TiN coating of the chisel has particularly good friction properties, allowing for high cutting performance with minimal effort. The nut splitter set is applied in the fields of commercial vehicles, pipe industry, tank cleaning, petrochemical industry, as well as steel and mining. The hydraulic pump guarantees an enormous cutting force of up to 90 tons. The set includes: a hydraulic nut splitter, a replacement chisel, and two internal hexagonal keys for chisel replacement.

Benefits

- · Application-oriented assembly for universal use
- By storing it in the L-Boxx, the completeness of the set can be easily overviewed.
- The TiN coating of the measuring tool guarantees higher cutting performance.

#	4021176	O	Ô	Ä	\bigcirc	i
	EAN	mm/inch		mm/inch	bar	kg/lb
Y-57-10	-123559	10 - 19 3/8 - 3/4	12	17 11/16	700	2,26 4,983
Y-57-19	-123566	19 - 24 3/4 - 15/16	12	25 1	700	3,24 7,144
Y-57-24	-870675	24 - 32 15/16 - 1 1/4	12	30 1 3/16	700	5,4 11,907
Y-57-32	-870682	32 - 41 1 1/4 - 1 5/8	12	32 1 1/4	700	8,53 18,809
Y-57-41	-870699	41 - 50 1 5/8 - 1 15/16	12	45 1 3/4	700	13,44 29,635
Y-57-50	-870705	50 - 60 1 15/16 - 2 3/8	12	48 1 7/8	700	25,08 55,301
Y-57-60	-870712	60 - 75 2 3/8 - 2 15/16	12	70 2 3/4	700	34,1 75,191



SERIES 58-1 MOUNTING CLAMP

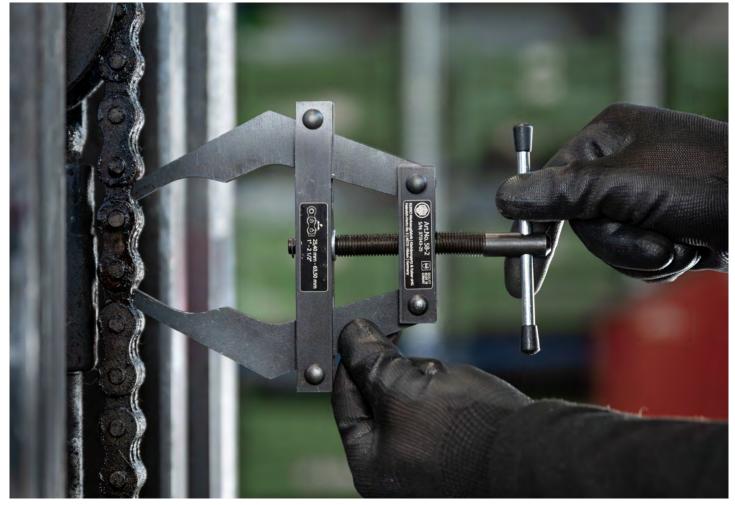


The assembly clamp from series 58-1 is used for tensioning chains and similar parts in crafts, industry, and workshops. It is particularly suitable for tensioning chains and can be complemented by other tools from KUKKO in application.

Benefits

- Guaranteed fast and straightforward installation of connecting left
- Easy assembly of the respective chain ends

#	4 021176	1		ı mm	
	EAN	mm/inch	mm/inch	mm/inch	kg/lb
58-1	-800245	9 - 46 3/8 - 1 13/16	5 3/16	3 1/8	0,17 0,375
58-2 NEW	-774454	25,4 - 63,5 1 - 2 1/2	8,5 5/16	6 1/4	0 0,000



 $The \, 58\text{-}2 \, assembly \, tensioner \, is \, used \, to \, tension \, the \, lift \, chain \, of \, a \, forklift \, truck \, to \, make \, it \, easier \, to \, dismantle \, is \, to \, tension \, the \, lift \, chain \, of \, a \, forklift \, truck \, to \, make \, it \, easier \, to \, dismantle \, is \, to \, tension \, the \, lift \, chain \, of \, a \, forklift \, truck \, to \, make \, it \, easier \, to \, dismantle \, is \, to \, tension \, the \, lift \, chain \, of \, a \, forklift \, truck \, to \, make \, it \, easier \, to \, dismantle \, is \, to \, tension \, the \, lift \, chain \, of \, a \, forklift \, truck \, to \, make \, it \, easier \, to \, dismantle \, is \, to \, tension \, the \, lift \, chain \, of \, a \, forklift \, truck \, to \, make \, it \, easier \, to \, dismantle \, is \, to \, tension \, the \, lift \, chain \, of \, a \, forklift \, truck \, to \, tension \, the \, lift \, chain \, of \, a \, forklift \, truck \, to \, tension \, the \, lift \, chain \, of \, a \, forklift \, truck \, to \, tension \, the \, lift \, chain \, of \, a \, forklift \, truck \, to \, tension \, the \, lift \, chain \, of \, a \, forklift \, truck \, to \, tension \, the \, lift \, chain \, of \, a \, forklift \, truck \, to \, tension \, the \, lift \, chain$

SERIES 59-1 CHAIN BREAKER BASIC DEVICE



The chain breaker device of series 59 is used for breaking various chains in industry and workshop. It serves as the basis for chain breaking, which can be supplemented by other KUKKO tools.

Benefits

- Guaranteed a quick and uncomplicated separation of chains
- Easy handling and flexible to use



Technical attributes

#		© O O Mm		
	EAN	mm/inch	mm/inch	kg/lb
59-1	-800214	48	3,28 - 5,72	0,924
		1 7/8	1/8-3/16	2,037

SERIES 59-1-1 SMALL REPLACEMENT PART SET FOR THE CHAIN TENSIONER BASIC DEVICE



The small set for the chain tensioner of the series 59 is a spare parts kit that provides essential elements for the use of the basic device.

Benefits

• Used together with the chain breaker basic device 59-1 or the KUKKO chain breaker set KS-59-1/14.

#	 	S=■. mm		mm	i
	EAN	mm/inch	mm/inch	mm/inch	kg/lb
59-1-1	-800221	3,0; 3,9 1/8;1/8	3,28 - 4,45 1/8-3/16	3 1/8	0,13 0,287
59-1-2	-800238	4,2; 5,0 3/16;3/16	5,08 - 5,72 3/16-3/16	4 3/16	0,19 0,419

K-59-1/14 CHAIN TENSIONER SET

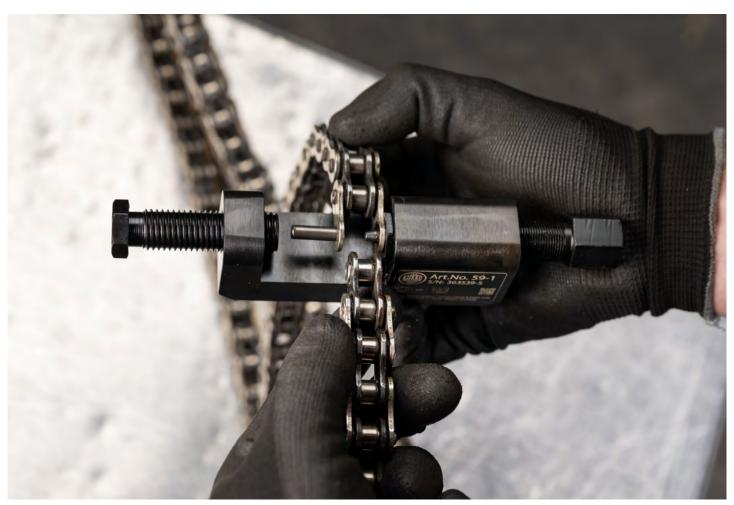


The 15-piece chain tensioner set from the 59 series is used for separating, tensioning and riveting chains. With this set, chains can not only be safely cut, but also accurately riveted thanks to a crimping aid. This set prevents injuries caused by improper tools.

Benefits

- Thanks to the pressing aid, the spacings of the rivet bolts can always be correctly adjusted, preventing the chain from being overly compressed
- The set contains all the important tools for processing chains
- Application-orientated compilation for universal use
- Storage in the box makes it easy to keep track of the completeness of the set

#			© © © mm	©= T an		mm	i
		mm	mm	mm	mm	mm	kg
K-59-1/14	4021176000461	6,3 - 19	48	3,0; 3,9; 4,2; 5,0	3,28 - 5,72	3,0; 4,0	2,47



The bolt of a chain was pressed out with the chain breaker 59-1





DEPLOYMENT

Whether for cutting and punching various materials, for producing seals, for removing adhesive weights and residues, or for thread renewal - KUKKO offers the perfect solution for every application.

FEATURES OF THE SERIES

SERIES 321



The disc cutter is used for cutting discs, leather, paper, particle board, and plastic, as well as for making seal rings. The sharp cutting knife is guided on a rail and can be aligned to a millimeter precision.

SERIES 2200



The soft scraper is used for gently removing adhesive weights and sealant residues, glued protective strips, plaques, and stickers. The ergonomic handle sits particularly well in the hand. Thanks to the polished scraper blade, even hard-to-remove adhesive residues disappear.

SERIES 326



The perforating iron are used for punching or manufacturing seals and sealing rings from rubber, leather, felt, plastic, cork, as well as various fabrics.

SERIES 121



The screw punch is used for evenly punching holes in plastic spacer rods for distance sensors as well as for punching holes in thin-walled materials. In this process, the workpiece is not deformed.

SERIES 49



The screw extractor with finely grooved design is used for extracting broken bolts and screws with righthand threads.

SERIES 245



The 13-piece nozzle reamer set is used for cleaning nozzles. The set consists of two tool holders and eleven reamers with varying diameters ranging from 0.6 to 1.9 mm.

The thread repair set of the K-58 series is suitable for restoring highly stressed screw connections with torn internal threads and for repairing defective or over-torqued threads in all oil pans or oil drain screws. Worn and damaged threads can be professionally and cost-effectively renewed in just a few steps.

The 60-piece set includes: 40 thread inserts in various sizes, 4 drills, 4 seating cutters, 4 thread cutters, 4 insertion tools, a 2-piece tool holder with ratchet function, a can of bio multi-oil, and a KUKKO chip with an individual serial number for warranty extension. For metric threads M5, M6, M8, and M10.





The defective thread will be reamed with a drill.



The **seat mill**ing machine ensures that the bore is countersunk.



The tap is injected with bio-multi-oil.



Using the tap, a new thread is being drilled.



The spindle insert is screwed onto the screwing tool.



The **screwing tool** screws in the spindle insert. Due to the special shape of the screwing tool, the spindle insert is additionally lightly pressed.

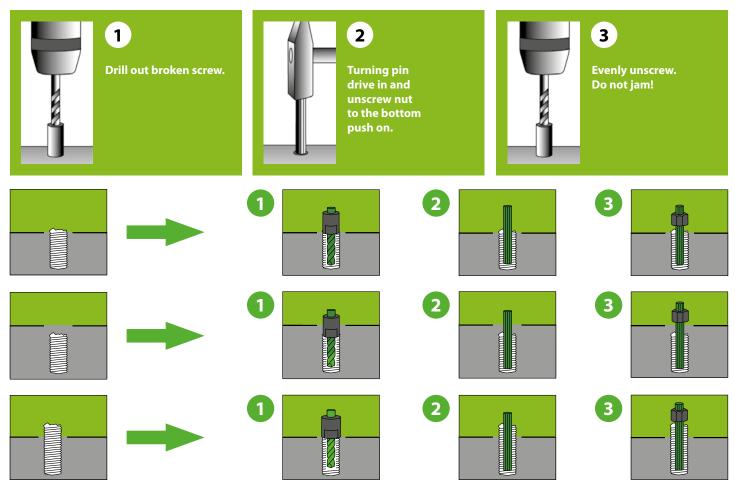
The screw extractor set with drills and drill sockets is used for the universal removal of broken bolts and screws. The screw extractors are an indispensable tool that neither hobbyists nor professional craftsmen can do without. The set includes screw extractors for screw threads from M5 to M16.

BENEFITS

- Application-oriented assembly for universal use
- Due to the joint storage, the completeness of the set can be easily overviewed
- The fine toothing of the turning pins prevents the widening and jamming of the screw



APPLICATION



TECHNICAL ATTRIBUTES

В	olt	Guide bush	Pre-drilling mm	Follow up drilling mm	Twist pin mm	Unscrewing nut SW mm
M 5	3/16"	-	3,2	-	3,2	10
M 6	1/4"	A-B	3,2	-	3,2	10
M 7	1/4"	A-B	3,2	4,8	4,8	11
M 8	5/15"	C-D	3,2	4,8	4,8	11
M 9	3/8"	C-D	4,8	6,4	6,4	13
M 10	7/16"	E-F	4,8	6,4	6,4	13
M 12	1/2"	G-H	4,8	8,0	8,0	14
M 14	9/16"	I-K	6,4	8,7	8,7	17
M 16	5/8"	I-K	6,4	8,7	8,7	17





A perforating iron from the 326 series is used together with a soft-face mallet from KUKKO



A soft scraper from the series 2200 for gently removing a product label.



The screw punch 121-182 is inserted through the previously drilled hole.



A screwdriver from the screwdriver set 49-A has safely removed a screw.

SERIES K-58 KUKKO-THREAD-REPAIR-SET



The thread repair set is used for restoring high-load screw connections in torn internal threads, as well as for repairing defective and stripped threads in all oil pans and drain plugs. Worn and damaged threads can be properly and cost-effectively renewed in just a few steps. The 58-piece set includes: 40 thread inserts in various sizes, 4 drill bits, 4 seating mills, 4 thread cutters, 4 insertion tools, a 2-piece tool holder with ratchet function, and a can of bio multi-oil.

Benefits

- The collar makes additional fixation in the workpiece unnecessary and ensures stability without additional space requirement.
- The synchronous threaded design also allows for repairs on thin-walled components.
- · Application-oriented assembly for universal use

Technical attributes

#				i
	EAN	nominal dimension	mm/inch	kg/lb
K-58-M05-M10	-038853	M5x7,6, M5x10, M6x9,4,	5,1, 6,2, 8,6, 10,3	2,07
		M6x12, M8x11,7, M8x16,2,	3/16, 1/4, 5/16, 3/8	4,564
		M10x14, M10x20		

SERIES W-714 THREAD RENEWER



The thread renewers of the series W-714 are used for the repair of damaged threads and similar parts in crafts, industry, and workshops. The thread renewers are capable of reliably restoring threads even for special parts that would otherwise be significantly more expensive in their new acquisition.

Benefits

• Suitable for right and left-hand threads

#	4021176	L	Ø	
	EAN	mm/inch	mm/inch	kg/lb
W-714-1	-131248	160 6 5/16	12 - 25 1/2-1	0 0,000
W-714-2	-131255	260 10 1/4	25 - 65 1-2 9/16	0 0,000
W-714-3	-131286	355 13 1	44 - 100 1 3/4-3 15/16	1,8 3,969
W-714-4	-131316	406 15 1	100 - 150 3 15/16-5 7/8	1,515 3,341

SERIES 97 HANDY THREAD FILE FOR REWORKING THREADS







The handy thread file is used for manual reworking and cleaning of damaged internal and external threads on technical components such as screws, bolts, axles, or shafts. Additionally, the file is used for repairing external threads where die heads cannot be used or are not available. Overall, the thread file has eight different pitches, which allows for the processing of different thread diameters. In the KUKKO range, there is a suitable thread file for the four common thread types DIN-ISO, Whitworth + BSF, SAE/UNF, and Whitworth/pipe threads.

Benefits

- Thread files are used where cutter dies cannot be applied.
- · Various slopes allow processing of different thread sizes.

Technical attributes

#	4 021176	L ⊷→		Suitable for thread type		i
	EAN	mm/inch	Degree			kg/lb
97-1	-490231	230 9 1/16	60	DIN ISO Metric	0,8, 1, 1,25, 1,5, 1,75, 2, 2,5, 3	0,125 0,276
97-2	-490316	230 9 1/16	55	Whitworth + BSF	10, 11, 12, 14: 16, 18, 20, 24	0,14 0,309
97-3	-490491	230 9 1/16	60	SAE UNF, UNC	11, 12, 13, 14, 16, 18, 20, 24	0,13 0,287
97-4	-720253	230 9 1/16	55	Whitworth Pipe thread GAZ, BSPP	11, 14, 19, 28	0,13 0,287

SERIES 321 SLICE CUTTER FOR CUTTING DISCS AND SEAL RINGS



The circular cutter is used for cutting discs, leather, paper, particle board, and plastic, as well as for making seal rings. The sharp cutting blade is guided on a rail and can be aligned with millimeter precision. With the circular cutter, precise round cutouts can be made in the range of 40 to 200 mm in diameter.

Benefits

- Millimeter scale on prism rail enables precise work
- The plastic handle sits particularly well and securely in the hand.

#	4021176	Ø	i
	EAN	mm/inch	kg/lb
321-200	-616144	40 - 200 1 9/16 - 7 7/8	0,495 1,091
321-400	-616229	40 - 400 1 9/16 - 15 3/4	0,61 1,345
321-600	-616304	40 - 600 1 9/16 - 23 5/8	0,75 1,654
321-800	-616489	40 - 800 1 9/16 - 31 1/2	0,88 1,940

SERIES 322 SLICE CUTTER WITH 2 BLADES FOR CUTTING DISCS AND SEAL RINGS



The disc cutter with two blades is used for cutting discs and sealing rings made of rubber, leather, paper, particle board, and plastic. The two sharp cutting blades are guided on a rail that can be aligned with millimeter precision. With the disc cutter, precise circular cutouts can be made with diameters ranging from 40 to 200 mm.

Benefits

- The millimeter scale on the prism rail enables precise work.
- The plastic handle lies particularly well and securely in the hand.



Technical attributes

#	4021176	Ø	i
	EAN	mm/inch	kg/lb
322-200	-616632	40 - 200 1 9/16 - 7 7/8	0,56 1,235
322-400	-616717	40 - 400 1 9/16 - 15 3/4	0,68 1,499
322-600	-616892	40 - 600 1 9/16 - 23 5/8	0,825 1,819
322-800	-616977	40 - 800 1 9/16 - 31 1/2	0,95 2,095

SERIES 55-C SINGLE-EDGED, MECHANICAL GASKET CUTTER



The single-edged mechanical gasket cutter of the series 55-C is used for removing gaskets on pipelines for craft, workshop, and industry. Due to its open design, the gasket cutter can be slid over pipelines, even if they are installed in a closed system. The sharp edge of the chisel, created by a facet grind, penetrates deeply into the gasket when the spindle is tightened, until it is cut through.

Benefits

- The open construction guarantees access to hard-to-reach seals.
- Pullback Technology guarantees an easy retraction of the pusher from the cut seal.



#	4021176	O	SW →		i
	EAN	mm/inch	mm/inch	mm/inch	kg/lb
55-2-C NEW	-021350	30 1 3/16	17 11/16	14 9/16	0,445 0,981

SERIES 2200 GENTLE SOFT SCRAPER





Soft scrapers are used for gently removing adhesive weights and sealant remnants, bonded protective strips, badges, and stickers. The ergonomic handle fits particularly well in the hand. Thanks to the polished scraper blade, even difficult-to-remove adhesive residues disappear. At the same time, the manufacturing from polyoxymethylene ensures that the surface to be treated is not damaged. Especially suitable for applications on sensitive surfaces such as adhesive weights on aluminum rims.

Benefits

- Sharp scraping blade removes stuck residue completely
- Good haptics due to ergonomic grip
- The scraper blade is resharpenable.

Technical attributes

#	4021176	L ← —→	M	™ mm	
	EAN	mm/inch	mm/inch	mm/inch	kg/lb
2200-1	-324284	190 7 1/2	22 7/8	60 2 3/8	0,7 1,544
2200-2	-324291	210 8 1/4	22 7/8	80 3 1/8	0,72 1,588
2200-3	-324307	280 11 1/32	22 7/8	150 5 7/8	0,083 0,183
2200-4	-324314	280 11 1/32	28 1 1/8	150 5 7/8	0,089 0,196

SERIES 2200-ST GENTLE SOFT SCRAPER SET



The soft scraper set is used for gently removing adhesive weights and sealant residues, bonded protective strips, plaques, and stickers. The ergonomic handle fits particularly well in the hand. Thanks to the polished scraping blade, even difficult-to-remove adhesive residues disappear. At the same time, the manufacturing from polyoxymethylene ensures that the surface being worked on is not damaged. Particularly suitable for applications on sensitive surfaces such as adhesive weights on aluminum rims. The set contains a total of four soft scrapers in different sizes.

Benefits

- The sharp scraper blade removes stubborn residues without a trace.
- Universal use thanks to soft scrapers in various sizes
- Grip sizes for hanging or securing the scraper

#	4021176	L →	mm m	E—IIII mm		
	EAN	mm/inch	mm/inch	mm/inch	kg/lb	
2200	-001611	190, 210, 280, 280 7 1/2;8 1/4;11 1/32;11 1/32	22, 22, 22, 28 7/8;7/8;7/8;1 1/8	60, 80, 150, 150 2 3/8;3 1/8;5 7/8;5 7/8	0,325 0,717	

SERIES 326 PERFORATING IRON



The perforating iron are used for punching or creating seals and sealing rings from rubber, leather, felt, plastic, cork, as well as various fabrics. The short hollow cylinder is sharply cut at the lower edge. The conical punch head is attached to two carriers. This creates a double-sided recess. Thanks to the particularly powerful design of the perforating iron, a wide variety of materials can be processed.

Benefits

#

- Extra sharp blades for the individual processing of various materials
- Uniform force distribution on the hollow cylinder due to impact action

Ø

4021176

#	4021176	L ←→	Ø	
	EAN	mm/inch	mm/inch	kg/lb
326-002	-620837	100 3 15/16	2 1/16	0,45 0,992
326-003	-620912	100 3 15/16	3 1/8	0,45 0,992
326-004	-621094	100 3 15/16	4 3/16	0,45 0,992
326-005	-621179	110 4 5/16	5 3/16	0,56 1,235
326-006	-621254	110 4 5/16	6 1/4	0,058 0,128
326-007	-621339	110 4 5/16	7 1/4	0,59 1,301
326-008	-621414	110 4 5/16	8 5/16	0,795 1,753
326-009	-621582	110 4 5/16	9 3/8	0,8 1,764
326-010	-621667	110 4 5/16	10 3/8	0,75 1,654
326-011	-621742	125 4 15/16	11 7/16	0,12 0,265
326-012	-621827	125 4 15/16	12 1/2	0,12 0,265
326-013	-621902	125 4 15/16	13 1/2	0,1 0,221
326-014	-622084	137 5 3/8	14 9/16	0,155 0,342
326-015	-622169	137 5 3/8	15 9/16	0,15 0,331
326-016	-622244	137 5 3/8	16 5/8	0,155 0,342
326-017	-622329	137 5 3/8	17 11/16	0,16 0,353
326-018	-622404	141 5 9/16	18 11/16	0,195 0,430
326-019	-622572	141 5 9/16	19 3/4	0,185 0,408
326-020	-622657	141 5 9/16	20 13/16	0,185 0,408
326-021	-622732	153 6 1/32	21 13/16	0,27 0,595
326-022	-622817	153 6 1/32	22 7/8	0,28 0,617
326-023	-622992	153 6 1/32	23 7/8	0,265 0,584
326-024	-623074	153 6 1/32	24 15/16	0,275 0,606
326-025	-623159	162 6 3/8	25 1	0,37 0,816
326-026	-623234	162 6 3/8	26 1 1/32	0,375 0,827
326-027	-623319	162 6 3/8	27 1 1/16	0,36 0,794
326-028	-623494	175 6 7/8	28 1 1/8	0,45 0,992
326-029	-623562	175 6 7/8	29 1 1/8	0,45 0,992
326-030	-623647	175 6 7/8	30 1 3/16	0,435 0,959
326-031	-623722	175 6 7/8	31 1 1/4	0,5 1,103

77	l l4021176ll	← →	D	
	EAN	mm/inch	mm/inch	kg/lb
326-032	-623807	175 6 7/8	32 1 1/4	0,49 1,080
326-033	-623982	175 6 7/8	33 1 5/16	0,495 1,091
326-034	-624064	180 7 1/16	34 1 5/16	0,59 1,301
326-035	-624149	180 7 1/16	35 1 3/8	0,585 1,290
326-036	-624224	180 7 1/16	36 1 7/16	0,57 1,257
326-037	-624309	180 7 1/16	37 1 7/16	0,575 1,268
326-038	-624484	190 7 1/2	38 1 1/2	0,75 1,654
326-039	-624552	190 7 1/2	39 1 9/16	0,0023 0,005
326-040	-624637	190 7 1/2	40 1 9/16	0,63 1,389
326-041	-911003	205 8 1/16	41 1 5/8	1,02 2,249
326-042	-624897	205 8 1/16	42 1 5/8	1,8 3,969
326-043	-624972	205 8 1/16	43 1 11/16	2,13 4,697
326-044	-625054	205 8 1/16	44 1 3/4	1,015 2,238
326-045	-625139	205 8 1/16	45 1 3/4	0,98 2,161
326-046	-625214	205 8 1/16	46 1 13/16	0,87 1,918
326-047	-625399	215 8 7/16	47 1 7/8	2,06 4,542
326-048	-625474	215 8 7/16	48 1 7/8	0,93 2,051
326-049	-625542	215 8 7/16	49 1 15/16	0,99 2,183
326-050	-625627	215 8 7/16	50 1 15/16	1,02 2,249
326-055	-625702	220 8 11/16	55 2 3/16	1,165 2,569
326-060	-625887	240 9 7/16	60 2 3/8	1,775 3,914
326-065	-625962	240 9 7/16	65 2 9/16	1,685 3,715
326-070	-626044	250 9 13/16	70 2 3/4	2,225 4,906
326-075	-626129	255 10 1/32	75 2 15/16	2,23 4,917
326-080	-626204	340 13 3/8	80 3 1/8	3,89 8,577
326-085	-922320	340 13 3/8	85 3 3/8	4,565 10,066
326-090	-626389	365 14 3/8	90 3 9/16	4,3 9,482
326-095	-917128	365 14 3/8	95 3 3/4	6,29 13,869
326-100	-626464	380 14 15/16	100 3 15/16	6 13,230

SERIES 326-TS PERFORATING IRON SET





The 24-piece set of hand punches with different diameters is used for punching or creating seals and sealing rings made of rubber, leather, felt, plastic, cork, as well as various fabrics. The short hollow cylinder is sharply cut at the lower edge. The conical punch head is mounted on two carriers, creating a dual-sided recess. Thanks to the particularly robust design of the hand punches, a wide variety of materials can be processed. The practical plastic case offers maximum organization and is also ideal for transport. A plastic plate also contained in the case can be used as a support for the workpiece to be processed.

Benefits

- Extra sharp blades for the individual processing of various materials
- Uniform distribution of force on the hollow cylinder due to impact effect

Technical attributes

#		L ← →	Ø	i
	EAN	mm/inch	mm/inch	kg/lb
326-230	-687991	100 - 175 3 15/16-6 7/8	2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 22, 24, 25, 28, 30 1/16, 1/8, 3/16, 3/16, 1/4, 1/4, 5/16, 3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4, 13/16, 7/8, 15/16, 1 1/8, 1 3/16	4,68 10,319

SERIES 326-KS PERFORATING IRON SET IN A PLASTIC ROLL BAG



The 9-piece set of hole punches with different diameters is used for punching holes or creating seals and sealing rings from rubber, leather, felt, plastic, cork, as well as various fabrics. The short hollow cylinder is sharply cut at the bottom edge. The conical punch head is attached to two supports, resulting in a dual recess. Thanks to the particularly sturdy design of the hole punches, a wide variety of materials can be processed. The practical roll-up bag made of plastic provides maximum organization and is also ideal for transport.

Benefits

- Extra sharp blades for the individual processing of various materials
- Uniform distribution of force on the hollow cylinder due to impact action

#	4021176	L ⊷→	Ø	i
	EAN	mm/inch	mm/inch	kg/lb
326-109	-916695	100 - 141 3 15/16-5 9/16	3, 5, 7, 9, 11, 13, 15, 17, 19 1/8, 3/16, 1/4, 3/8, 7/16, 1/2, 9/16, 11/16, 3/4	1,025 2,260
326-119	-916701	100 - 141 3 15/16-5 9/16	2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20 1/16	1,94 4,278
326-120	-626532	100 - 162 3 15/16-6 3/8	3, 5, 6, 8, 10, 12, 13, 14, 16, 19, 22, 25 1/8	1,82 4,013
326-130	-997700	100 - 175 3 15/16-6 7/8	2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30 1/16	3,01 6,637

326-320 RING PUNCH TOOL SETRING STAMPING TOOL SET



The 11-piece ring hole punch set is used for punching or creating seals and seal rings made of rubber, leather, felt, plastic, cork as well as fabrics. Thanks to the dual mounting, seal rings can be produced in just one operation by simultaneously attaching two punches with different diameters to the punch holder. The punches are particularly sharp-edged. This allows for the processing of a variety of materials.

Benefits

- Extra sharp stamping knives for the individual processing of various materials
- · A variety of ring diameters enables numerous combination options

Technical attributes

#	4021176	Ø	i
	EAN	mm/inch	kg/lb
326-320	-915605	3, 4, 6, 8, 10, 12, 14, 16, 18, 20 1/8, 3/16, 1/4, 5/16, 3/8, 1/2, 9/16, 5/8, 11/16, 13/16	0,66 1,455

326-330 RING PUNCH TOOL SET



The ring punch tool set is used for punching or creating seals and seal rings from rubber, leather, felt, plastic, cork, as well as fabrics. Thanks to the double attachment, seal rings can be produced in just one operation by simultaneously attaching two punch blades of different diameters to the punch holder. The punch blades are particularly sharp. This allows for the processing of a wide variety of materials.

Benefits

- Extra sharp stamping knives for the individual processing of various materials
- A variety of ring diameters enables numerous combination options

#	4 021176	Ø	
	EAN	mm/inch	kg/lb
326-330	-745004	3, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30 1/8, 3/16, 1/4, 5/16, 3/8, 1/2, 9/16, 5/8, 11/16, 13/16, 7/8, 15/16, 1 1/32, 1 1/8, 1 3/16	1,405 3,098

326-350 RING PUNCH TOOL SET





The 33-piece ring punch tool set is used for punching or creating seals and seal rings from rubber, leather, felt, plastic, cork, as well as fabrics. Thanks to the double holder, sealing rings can be produced in just one working step by attaching two punch blades with different diameters to the punch holder simultaneously. The punch blades are particularly sharply cut. This allows for the processing of a wide variety of materials.

Benefits

- Extra sharp stamping knives for the individual processing of various materials
- · A variety of ring diameters enables numerous combination options

Technical attributes

#	4021176	Ø	i
	EAN	mm/inch	kg/lb
326-360	-745264	2, 3, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40, 42, 44, 46, 48, 50, 52, 54, 56, 58, 60 1/16, 1/8, 3/16, 1/4, 5/16, 3/8, 1/2, 9/16, 5/8, 11/16, 13/16, 7/8, 15/16, 1 1/32, 1 1/8, 1 3/16, 1 1/4, 1 5/16, 1 7/16, 1 1/2, 1 9/16, 1 5/8, 1 3/4, 1 13/16, 1 7/8, 1 15/16, 2 1/16, 2 1/8, 2 3/16, 2 5/16, 2 3/8	5,655 12,469

326-360 RING PUNCH TOOL SET



The 38-piece ring punch tool set is used for punching or creating seals and seal rings from rubber, leather, felt, plastic, cork, and fabrics. Thanks to the double holder, seal rings can be produced in just one operation by simultaneously mounting two punch blades of different diameters on the punch holder. The punch blades are particularly sharp. This allows for the processing of a wide variety of materials.

Benefits

- Extra sharp stamping knives for the individual processing of various materials
- · A variety of ring diameters enables numerous combination options

#		Ø	i
	EAN	mm/inch	kg/lb
326-360	-745264	2, 3, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40, 42, 44, 46, 48, 50, 52, 54, 56, 58, 60 1/16, 1/8, 3/16, 1/4, 5/16, 3/8, 1/2, 9/16, 5/8, 11/16, 13/16, 7/8, 15/16, 1 1/32, 1 1/8, 1 3/16, 1 1/4, 1 5/16, 1 7/16, 1 1/2, 1 9/16, 1 5/8, 1 3/4, 1 13/16, 1 7/8, 1 15/16, 2 1/16, 2 1/8, 2 3/16, 2 5/16, 2 3/8	5,655 12,469

SERIES 334-820 CONTROL HOLE PUNCH

The control hole punches of series 334-820 are used for marking test labels and for the cancellation of receipts, tickets, train passes, etc.



• Stable construction and easy application





Technical attributes

#		L ←──→	Ø	i
	EAN	mm/inch	mm/inch	kg/lb
334-820	-929558	120 4 3/4	3 1/8	0,18 0,397

SERIES 750 REVOLVING HOLE PUNCH

The revolving hole punches of the series 750 are used for punching with low force in crafts and workshops. The hole punches facilitate punching through the adjustable sizes and the pliers design and enable a smooth workflow.



Benefits

- Anti-slip safety (spindle neck) Thighs made of red PVC
- Hole punch diameter 2 2.5 3 3.5 4 and 4.5 mm

#	4021176	L	Ø	i
	EAN	mm/inch	mm/inch	kg/lb
750-220	-611927	220 8 11/16	2,0; 2,5; 3,0; 3,5; 4,0; 4,5 1/16, 1/8, 1/8, 1/8, 3/16, 3/16	0,27 0,595
750-250	-650520	250 9 13/16	2,0; 2,5; 3,0; 3,5; 4,0; 4,5 1/16, 1/8, 1/8, 1/8, 3/16, 3/16	0,45 0,992

SERIES 970 IDEAL SCISSORS





The Ideal scissors in the heavy-duty version are used for straight and continuous cuts as well as figure cuts on hard-to-separate sheets. The arms of the scissors are made of sturdy steel sheet and equipped with an antislip safety 2-component cover. The built-in opening spring ensures easy handling and operation. The maximum cutting capacity ranges from 1.2 mm for sheets up to 1.8 mm for V2A sheets. Thanks to the optimized design and geometry of the scissors, hard-to-reach places can also be accessed.

Benefits

- · High force through lever amplification
- Ergonomic handle for fatigue-free working

Technical attributes

#	4021176	L	of the second se	;	X	i
	EAN	mm/inch	mm/inch	mm/inch		kg/lb
970-260	-687427	260 10 1/4	32 1 1/4	1,8 1/32	right	0,525 1,158
970-261	-687595	260 10 1/4	32 1 1/4	1,8 1/32	left	0,54 1,191

SERIES 971 CIRCULAR PATTERN SNIPS



The circular pattern snips in the lightweight version are used for curved cuts as well as short and straight cuts. The arms of the snips are made of sturdy sheet steel and equipped with an anti-slip safety 2-component cover. The built-in opening spring guarantees easy handling and operation. The maximum cutting capacity ranges from 1.0 mm for V2A sheets to 1.2 mm for sheets. Thanks to the optimized design and geometry of the snips, even hard-to-reach spots can be accessed.

Benefits

- · High force through lever amplification
- Ergonomic handle for fatigue-free working

#	4021176	l←—→I		/;	X	i
	EAN	mm/inch	mm/inch	mm/inch		kg/lb
971-240	-557157	243 9 9/16	30 1 3/16	1,2 1/32	right	0,4 0,882
971-241	-557232	243 9 9/16	30 1 3/16	1,2 1/32	left	0,38 0,838
971-242	-558222	250 9 13/16	30 1 3/16	1,2 1/32	left	0,4 0,882

SERIES 972 SHEET METAL SHEARS



The heavy-duty figurine sheet metal shear is used for curve cuts as well as short and straight cuts. The arms of the shear are made of sturdy sheet steel and are equipped with an anti-slip safety 2-component cover. The built-in opening spring ensures easy handling and operation. The maximum cutting capacity ranges from 1.2 mm for V2A sheets up to 1.8 mm for sheets. Thanks to the optimized design and geometry of the shear, even hard-to-reach areas can be accessed.

Benefits

- · High force through lever amplification
- · Ergonomic handle for fatigue-free working

Technical attributes

#		L			X	i
	EAN	mm/inch	mm/inch	mm/inch		kg/lb
972-260	-558307	260 10 1/4	40 1 9/16	1,8 1/32	right	0,465 1,025
972-261	-558482	260 10 1/4	40 1 9/16	1,8 1/32	left	0,475 1,047

SERIES 973 IDEAL SHEARS



The Ideal shear in the lightweight version is used for straight and continuous cuts as well as figure cuts on hard-to-separate sheets. The arms of the shear are made of sturdy sheet steel and are equipped with an anti-slip safety 2-component coating. The built-in opening spring ensures easy handling and operation. The maximum cutting capacity ranges from 1.0 mm for V2A sheets to 1.2 mm for sheets. Thanks to the optimized design and geometry of the shear, hard-to-reach areas can also be accessed.

Benefits

- High force through lever amplification
- Ergonomic handle for fatigue-free working

#	4 021176	L ←──→		<u> </u>	X		
	EAN	mm/inch	mm/inch	mm/inch		kg/lb	
973-241	-558635	235 9 1/4	30 1 3/16	1,2 1/32	left	0,415 0,915	

SERIES 974 IDEAL SHEARS





The Ideal shear in the heavy version is used for straight and continuous cuts as well as figure cuts on hard-to-separate sheets. The arms of the shear are made of sturdy sheet steel and equipped with an anti-slip safety 2-component coating. The built-in opening spring guarantees easy handling and operation. The maximum cutting capacity ranges from 1.2 mm for V2A sheets to 1.8 mm for sheets. Thanks to the optimized design and geometry of the shear, even hard-to-reach areas can be accessed.

Benefits

- · High force through lever amplification
- · Ergonomic handle for fatigue-free working

Technical attributes

#	4021176	L	of the second se	}	X	i
	EAN	mm/inch	mm/inch	mm/inch		kg/lb
974-260	-558710	260 10 1/4	32 1 1/4	1,8 1/32	right	0,535 1,180
974-261	-558895	260 10 1/4	32 1 1/4	1,8 1/32	left	0,53 1,169

SERIES 974-HS IDEAL SHEARS



The Ideal shear is used for straight and continuous cuts as well as figure cuts on difficult-to-separate sheets. The arms of the shears are made of sturdy steel sheet and are equipped with an anti-slip safety 2-component coating. The shear head is coated with TiN, which ensures an even longer service life. The employed blades are made of high-speed steel, which significantly increases cutting speed. The built-in opening spring guarantees easy handling and operation. Thanks to the optimized design and geometry of the shears, even hard-to-reach areas can be accessed.

Benefits

- · High force through lever amplification
- Ergonomic handle for fatigue-free working
- · Available for left or right cutting

#	4 021176	←		; <u> </u>	X	i
	EAN	mm/inch	mm/inch	mm/inch		kg/lb
974-HSL	-710279	260 10 1/4	37 1 7/16	1,8 1/32	right	0,55 1,213
974-HSR	-710354	260 10 1/4	37 1 7/16	1,8 1/32	left	0,55 1,213

SERIES 980 BERLIN SHEARS



The Berlin sheet metal shear is used for long and straight cuts for non-deforming cutting of sheets. Thanks to the blue protective coating, the arms have a particularly good grip. The firm stop protects the blades and prevents possible injury from crushing. Additionally, the sheet metal shear is characterized by easy handling and smooth cutting.

Benefits

- High force through lever amplification
- · Fixed stop offers protection for the blades.

Technical attributes

#	4021176	<u>L</u> ←——→	$\langle \chi \rangle$	i
	EAN	mm/inch		kg/lb
980-250	-560775	250 9 13/16	right	0,465 1,025
980-275	-560850	275 10 13/16	right	0,645 1,422
980-300	-645922	300 11 13/16	right	0,685 1,510

SERIES 981 PELIKAN CONTINUOUS CUTTING SCISSORS



The Pelikan guillotine shear is used for long, straight as well as continuous cuts for non-chip cutting of sheets. Due to its special design, the shear is particularly suitable for cutting sheet metal panels. Thanks to the blue protective coating, the arms have a particularly good grip. The fixed stop protects the blades and prevents possible injury from crushing. Additionally, the sheet metal shear is characterized by its easy handling and smooth cutting.

Benefits

- High force through lever amplification
- Fixed stop offers protection for the blades.

#		L ←→	X	
	EAN	mm/inch		kg/lb
981-300	-560935	300 11 13/16	right	0,68 1,499

SERIES 982 SHEET METAL SHEARS





The sheet metal shears are used for short and straight cuts as well as contour cuts for non-deforming cutting of sheets. Thanks to the blue protective coating, the arms have particularly good grip. The solid stop protects the blades and prevents possible injury from crushing. In addition, the shears stand out for their easy handling and smooth cutting.

Benefits

- · High force through lever amplification
- Fixed stop offers protection for the blades.

Technical attributes

#	4 021176	ı L →ı	X	i
	EAN	mm/inch		kg/lb
982-250	-561017	250 9 13/16	right	0,465 1,025
982-251	-561192	250 9 13/16	left	0,52 1,147
982-275	-561277	275 10 13/16	right	0,55 1,213
982-276	-561352	275 10 13/16	left	0,47 1,036
982-300	-646004	300 11 13/16	right	0,57 1,257
982-301	-646189	300 11 13/16	left	0,7 1,544

SERIES 983 IDEAL SHEARS



The Ideal scissors are used for straight and tapered cuts as well as figure cuts for cutting sheets without deformation. Thanks to the blue protective coating, the arms have a particularly good grip. The solid stop protects the blades and prevents possible injury from crushing. In addition, the sheet metal scissors stand out for their easy handling and smooth cutting.

Benefits

- High force through lever amplification
- Fixed stop offers protection for the blades.

#		ı <mark>← L</mark> mm/inch	X	kg/lb
983-260	-561437	260 10 1/4	right	0,615 1,356
983-261	-561505	260 10 1/4	left	0,59 1,301
983-280	-561680	280 11 1/32	right	0,605 1,334
983-281	-561765	280 11 1/32	left	0,605 1,334

SERIES 986 GOLDSMITH / FINE SHEET METAL SHEARS



The goldsmith / sheet metal shears are used for cutting thin sheets. Thanks to the protective coating, the arms have a particularly good grip. The firm stop protects the blades and prevents possible injury from crushing. The slim design of the arms allows processing even in hard-to-reach places.

Benefits

- · High force through lever amplification
- Fixed stop offers protection for the blades.
- · Available with straight or curved cutting edges

Technical attributes

#	 4021176	L ←──→	X	i
	EAN	mm/inch		kg/lb
986-180	-562182	180 7 1/16	right	0,105 0,232
986-181	-562267	180 7 1/16	left	0,12 0,265

SERIES 987 GOLDSMITH / FINE SHEET METAL SHEARS



The goldsmith's fine sheet metal shear is used for cutting thin sheets. Thanks to the protective coating, the arms have a particularly good grip. The slim design of the arms allows processing even in hard-to-reach places.

Benefits

- High force through lever amplification
- Fixed stop offers protection for the blades.
- · Available with straight or curved cutting edges

#		L ←──→	$\langle \rangle$	i
	EAN	mm/inch		kg/lb
987-180	-562342	180 7 1/16	right	0,105 0,232
987-181	-562427	180 7 1/16	left	0,13 0,287

SERIES 988 GOLDSMITH / FINE SHEET METAL SHEARS



The goldsmith / sheet metal shears are used for cutting thin sheets. Thanks to the protective coating, the arms have a particularly good grip. The firm stop protects the blades and prevents possible injury from crushing. The slim design of the arms allows processing even in hard-to-reach places.

Benefits

- · High force through lever amplification
- · Fixed stop offers protection for the blades.
- Available with straight or curved cutting edges

Technical attributes

#	 4021176	L ←→	$\overset{\leftarrow}{X}$	i
	EAN	mm/inch		kg/lb
988-180	-562595	180 7 1/16	right	0,105 0,232
988-181	-562670	180 7 1/16	left	0,09 0,198

SERIES 993 UNIVERSAL COMBINATION SCISSORS



The universal combination scissors are used for cutting various materials for industry and crafts. The scissors cut, for example, sheet metal, wire, plastic, rubber, leather, cardboard, and paper. This makes them a true all-rounder among cutting tools. Equipped with a practical one-handed metal lock, the scissors can be easily opened or closed.

Benefits

- High force through lever amplification
- Practical One-Handed Closure

#		L		X	i
	EAN	mm/inch	mm/inch		kg/lb
993-140	-563585	140 5 1/2	33 1 5/16	right	0,08 0,176
993-190	-563660	190 7 1/2	42 1 5/8	right	0,125 0,276

SERIES 995 WORK SCISSORS



The work scissors are used for cutting thick paper, cardboard, thin rubber, leather, and textiles, making them versatile. They feature one long and one round grip eye, which guarantees optimal guidance.

Benefits

- · High force through lever amplification
- · Universally applicable for processing various materials

Technical attributes

#	4021176	<u>L</u>	f	X	•
	EAN	mm/inch	mm/inch		kg/lb
995-175	-166441	250 9 13/16	83 3 1/4	right	0,215 0,474
995-200	-563905	175 6 7/8	94 3 11/16	right	0,22 0,485
995-225	-166465	225 8 7/8	110 4 5/16	right	0,285 0,628
995-250	-564087	200 7 7/8	120 4 3/4	right	0,4 0,882

SERIES 996 MULTIPURPOSE SCISSORS



The multipurpose scissors can be used individually and are used for cutting paper and fabric. It features one long and one round handle eye, which ensures optimal guidance. The handles made of impact-resistant plastic are adjustable and screwed together.

Benefits

- High force through lever amplification
- Universally applicable for processing a variety of materials

#	 	<u>L</u> ←—→			i
	EAN	mm/inch	mm/inch		kg/lb
996-210	-564247	210 8 1/4	75 2 15/16	right	0,12 0,265

SERIES 997 WICK SCISSORS



The wick scissors are used to cut burnt-down wicks to the desired length. The glowing wick stays on the cutting edge without contaminating the candle. The wick scissors feature two round finger holes that ensure optimal handling.

Benefits

- · High force through lever amplification
- Cut the glowing wick.

Technical attributes

#			of- mm	X	
	EAN	mm/inch	mm/inch		kg/lb
997-150	-140311	150 5 7/8	43 1 11/16	right	0,215 0,474

SERIES 121 SCREW HOLE PUNCH



The screw punches of series 121 are used for uniformly punching plastic support rods for distance sensors as well as for stamping holes in thin-walled materials. During the working process, the workpiece is not deformed. Each screw punch consists of a punch, a die, and a pressure screw in a particularly stable design.

Benefits

- Special cutting geometry prevents the detachment of the carriage paint
- · Can be used without any problems on already painted bumpers.

#	4021176	\mathbf{z}	Ø	sw	
	EAN		mm/inch	mm/inch	kg/lb
121-182	-831379	M10x1	18,2 11/16	17 11/16	0,105 0,232
121-184	-403163	M10x1	18,4 11/16	17 11/16	0,09 0,198
121-186	-058745	M10x1	18,6 11/16	17 11/16	0,095 0,209
121-190	-079092	M10x1	19 3/4	17 11/16	0,105 0,232
121-200	-202544	M10x1	20 13/16	17 11/16	0,1 0,221
121-225	-202575	M10x1	22,5 7/8	17 11/16	0,125 0,276
121-260	-831386	M10x1	26 1 1/32	17 11/16	0,16 0,353
121-265	-058752	M10x1	26,5 1 1/32	17 11/16	14 30,870

#	4 021176	\} <u>I</u>	Ø	S₩	i
	EAN		mm/inch	mm/inch	kg/lb
121-266	-403187	M10x1	26,6 1 1/32	17 11/16	0,195 0,430
121-282	-079757	M10x1	28,2 1 1/8	17 11/16	0,18 0,397
121-293	-058776	M10x1	29,3 1 1/8	17 11/16	0,195 0,430
121-310	-009716	M10x1	31 1 1/4	17 11/16	0 0,000
121-319	-403194	M10x1	31,9 1 1/4	17 11/16	0,255 0,562
121-326	-403200	M10x1	32,6 1 1/4	17 11/16	0,265 0,584
121-389	-403224	M10x1	38,9 1 1/2	17 11/16	0,34 0,750

SERIES 49 SCREW EXTRACTOR





The screw extractors of series 49 with finely grooved shape are used for removing broken bolts and screws with right-hand threads. Thus, the screw extractor is an indispensable tool that neither hobbyists nor professional craftsmen can do without.

Benefits

- Fine grooves ensure better traction and thus a comfortable working method.
- Optimized thread lengths ensure a shallow drilling depth.

Technical attributes

#	4021176	L ⊢		 	
	EAN	mm/inch	mm/inch	mm/inch	kg/lb
49-1	-018008	50 1 15/16	3 - 6 1/8 - 1/4	2,7 1/8	0,5 1,103
49-2	-018183	57 2 1/4	6 - 8 1/4 - 5/16	3,8 1/8	0,1 0,221
49-3	-018268	64 2 1/2	8 - 11 5/16 - 7/16	4,9 3/16	0,15 0,331
49-4	-018343	71 2 13/16	11 - 14 7/16 - 9/16	7 1/4	0,03 0,066
49-5	-018428	78 3 1/16	14 - 18 9/16 - 11/16	9 3/8	0,05 0,110
49-6	-018596	85 3 3/8	18 - 24 11/16 - 15/16	12 1/2	0,1 0,221

#	4021176	L	<u>; annumum ;</u>	 ←→	i
	EAN	mm/inch	mm/inch	mm/inch	kg/lb
49-7	-018671	92 3 5/8	24 - 33 15/16 - 1 5/16	14,5 9/16	0,165 0,364
49-8	-018756	100 3 15/16	33 - 45 1 5/16 - 1 3/4	18 11/16	0,29 0,639
49-9	-018831	112 4 7/16	45 - 52 1 3/4 - 2 1/16	24 15/16	0,555 1,224
49-10 NEW	-239809	141,5 5 9/16	52 - 64 2 1/16 - 2 1/2	31,2 1 1/4	0,99 2,183

49-A SCREW EXTRACTOR SET



The 5-piece screw extractor set 49-A with finely grooved shape is used for extracting broken bolts and screws with right-hand threads. The screw extractors are an indispensable tool that neither hobbyists nor professional craftsmen can do without. The set includes screw extractors for thread diameters starting from M3 and depending on the version, up to a diameter of M18 (49-A), M24 (49-B), or M45 (49-C).

Benefits

- · Application-oriented assembly for universal use
- Through the common storage, the completeness of the set can be well overviewed.



#	4021176	L ←──→]	 ←→	i	
	EAN	mm/inch	mm/inch	mm/inch	kg/lb	
49-A	-018916	50, 57, 64, 71, 78 1 15/16;2 1/4;2 1/2; 2 13/16;3 1/16	M3 - M18 -	2,7; 3,8; 4,9; 7; 9 1/16;1/8;3/16;1/4;3/8	0,53 1,169	

49-B SCREW EXTRACTOR SET





The 5-piece screw extractor set 49-B with finely grooved shape is used for extracting broken bolts and screws with right-hand threads. The screw extractors are an indispensable tool that neither hobbyist nor professional tradesperson can do without. The set includes screw extractors for thread diameters starting from M3 and depending on the design, up to diameters of M18 (49-A), M24 (49-B), or M45 (49-C).

Benefits

- · Application-oriented assembly for universal use
- Through the common storage, the completeness of the set can be well overviewed.



Technical attributes

#	4021176	L ←→	:	 ←→	i	
	EAN	mm/inch	mm/inch	mm/inch	kg/lb	
49-B	-019098	50, 57, 64, 71, 78, 85 1 15/16;2 1/4;2 1/2;2 13/16;3 1/16;3 3/8	M3 - M24 -	2,7; 3,8; 4,9; 7; 9; 12 1/16;1/8;3/16;1/4;3/8;1/2	0,636 1,402	

49-C SCREW EXTRACTOR SET



The 8-piece screw extractor set 49-C with finely serrated shape is used to extract broken bolts and screws with right-hand threads. The screw extractors are an indispensable tool that neither hobbyists nor professional craftsmen can do without. The set includes screw extractors for thread diameters from M3 and, depending on the design, up to a diameter of M18 (49-A), M24 (49-B), or M45 (49-C).

Benefits

- Application-oriented assembly for universal use
- Through the common storage, the completeness of the set can be well overviewed.



#	4021176	L ←──→		←→	i	
	EAN	mm/inch	mm/inch	mm/inch	kg/lb	
49-C	-019173	50, 57, 64, 71, 78, 85, 92, 100 1 15/16;2 1/4;2 1/2;2 13/16; 3 1/16;3 3/8;3 5/8;3 15/16	M3 - M45 -	2,7; 3,8; 4,9; 7; 9; 12; 14,5; 18 1/16;1/8;3/16;1/4;3/8;1/ 2;9/16;11/16	0,75 1,654	

SERIES K-49 READY-TO-USE SCREW EXTRACTOR SET IN CASE



The 10-piece, ready-to-use screw extractor set from the K-49 series with fine ribbed shape is used for extracting broken bolts and screws with right-hand thread. Ideal for screws with a thread diameter of 4 to 20 mm. The set contains six screw extractors, a ratchet, two chucks, and an adapter, making it ready for immediate use. The screw extractors are an indispensable tool that neither hobbyists nor professional craftsmen can do without.

Benefits

- · Application-oriented assembly for universal use
- Through the common storage, the completeness of the set can be well overviewed.

Technical attributes

#	4021176	<u>L</u>		←→		Components
	EAN	mm/inch	mm/inch	mm/inch	kg/lb	
K-49-B NEW	-041938	50, 55, 61, 65, 69 1 15/16, 2 3/16, 2 3/8, 2 9/16, 2 11/16	4 - 20 3/16 - 13/16	2,6, 3,8, 4,8, 7, 9 1/16, 1/8, 1/8, 3/16, 5/16	0,22 0,485	49-T-1, 49-T-2, 49-T-3, 49-T-4, 49-T-5

SERIES 49-0 SCREW EXTRACTOR



The screw extractors of series 49-0 with broad ribbed shape are used for removing broken bolts and screws with right-hand threads. Thus, the screw extractor is an indispensable tool that neither hobbyist nor professional tradesman can do without.

Benefits

- Wide grooves are particularly suitable for soft materials, such as brass and aluminum.
- Optimized thread lengths ensure a shallow drilling depth.

#	 	L ←—→		 	i
	EAN	mm/inch	mm/inch	mm/inch	kg/lb
49-01	-490569	48 1 7/8	3 - 6 1/8 - 1/4	3,2 1/8	0,05 0,110
49-02	-490644	54 2 1/8	6 - 8 1/4 - 5/16	4,2 3/16	0,005 0,011
49-03	-490729	60 2 3/8	8 - 11 5/16 - 7/16	5 3/16	0,01 0,022
49-04	-490804	67 2 5/8	11 - 14 7/16 - 9/16	6,4 1/4	0,02 0,044
49-05	-490989	86,5 3 3/8	14 - 18 9/16 - 11/16	9 3/8	0,04 0,088
49-06	-491061	95 3 3/4	18 - 24 11/16 - 15/16	12 1/2	0,12 0,265



The screw extractor set with wide, grooved shape is used for extracting broken bolts and screws with right-hand threads. The screw extractors are an indispensable tool that neither hobbyist nor professional craftsmen can do without. The set includes screw extractors for thread diameters from 3 to 24 mm.

Benefits

- · Application-oriented assembly for universal use
- Through the common storage, the completeness of the set can be well overviewed.

Technical attributes

#	 	L ←──→	*:	 ←→	i
	EAN	mm/inch	mm/inch	mm/inch	kg/lb
49-0-S	-491146	48, 54, 60, 67, 86,5, 95 1 7/8;2 1/8;2 3/8;2 5/8;3 3/8;3 3/4	3 - 24 1/8 - 15/16	3,2; 4,2; 5; 6,4; 9; 12 1/8;3/16;3/16;1/4;3/8;1/2	0,195 0,430

SERIES 49-T "SUPER TRACTION" SCREW EXTRACTOR



The screw extractor "Super Traction" is used to extract broken bolts and screws with right-hand threads. Thus, the screw extractor is an indispensable tool that neither hobbyist screwdrivers nor professional craftsmen can do without.

Benefits

- Narrow grooves ensure better traction and thus a comfortable operation.
- Optimized thread lengths ensure a shallow drilling depth.

#	4021176	L ← — →	*************************************	←→		Included in the set
	EAN	mm/inch	mm/inch	mm/inch	kg/lb	
49-T-1	-758461	50 1 15/16	4 - 5 3/16 - 3/16	2,6 1/8	0,1 0,221	K-49-B
49-T-2	-758539	55 2 3/16	5 - 7 3/16 - 1/4	3,8 1/8	0,1 0,221	K-49-B
49-T-3	-758614	61 2 3/8	8 - 12 5/16 - 1/2	4,8 3/16	0,15 0,331	K-49-B
49-T-4	-758799	65 2 9/16	12 - 14 1/2 - 9/16	7 1/4	0,2 0,441	K-49-B
49-T-5	-758874	69 2 11/16	16 - 20 5/8 - 13/16	9 3/8	0,44 0,970	K-49-B

SERIES 49-T-A SCREW EXTRACTOR SET "SUPER TRACTION"



The screw extractor set "Super Traction" is used to extract broken bolts and screws with right-handed threads. The screw extractors are an indispensable tool that neither DIY enthusiasts nor professional craftsmen can do without. The set includes screw extractors for thread diameters from 4 to 20 mm.

Benefits

- Application-oriented assembly for universal use
- Through the shared storage, the completeness of the set can be easily overseen.

Technical attributes

#	4 021176	L ←──→		←→	i
	EAN	mm/inch	mm/inch	mm/inch	kg/lb
49-T-A	-758959	50, 55, 61, 65, 69 1 15/16;2 3/16;2 3/8;2 9/16;2 11/16	4 - 20 3/16 - 13/16	2,6; 3,8; 4,8; 7; 9 1/16;1/8;3/16;1/4;3/8	0,11 0,243

SERIES 49-U SCREW EXTRACTOR WITH DRILLS AND DRILL SOCKET



The screw extractors with drills and drill sockets are used for extracting broken bolts and screws. Thus, screw extractors are an indispensable tool that neither hobbyists nor professional craftsmen can do without.

Benefits

· Optimized thread lengths ensure a low drilling depth

#	 			i
	EAN	mm/inch	mm/inch	kg/lb
49-U-11	-799549	M5 - M7 -	3,2 1/8	0,3 0,662
49-U-12	-799624	M8 - M9 -	4,8 3/16	0,55 1,213
49-U-13	-799709	M10 - -	6,4 1/4	0,85 1,874
49-U-14	-799884	M12 - -	8 5/16	0,125 0,276
49-U-15	-799969	M14 - M16 -	8,7 5/16	0,16 0,353



SERIES 49-U-B SCREW EXTRACTOR SET





The 25-piece screw extractor set with drills and drill sockets is used for universal extraction of broken bolts and screws. The screw extractors are an indispensable tool that neither hobbyists nor professional craftsmen can do without. The set includes screw extractors for screw threads from M5 to M16.

Benefits

- · Application-oriented assembly for universal use
- Through the shared storage, the completeness of the set can be easily overseen.

Technical attributes

#	4021176	: mmmm:		i
	EAN	mm/inch	mm/inch	kg/lb
49-U-B	-799136	M5 - M16 -	3,2-8,7 1/8-5/16	0,85 1,874

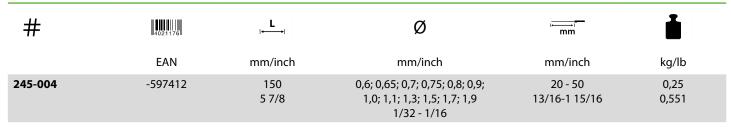
SERIES 245 NOZZLE REAMER SET



The 12-piece nozzle reamer set is used for cleaning nozzles. The set consists of two tool holders and eleven reamers with various diameters ranging from 0.6 to 1.9 mm.

Benefits

• Compact and handy range that can be used for all nozzle sizes.











PRESSING & INSERTING

For the professional and precise installation of bearings, the replacement of silent bushings on axles in the automotive sector, as well as for the hydraulic pressing in and out of axle knuckle bolts – KUK-KO offers the perfect solution for every application.

The activities related to pressing & inserting include:

- Bearing installation tool sets
- Universal press frames
- Workshop press AXLE

APPLICATION OF BEARING INSTALLATION TOOL OF SERIES 71

The heavy-duty bearing installation tool set made of steel from series 71 is used for the installation of bearings using a hydraulic press or hammer in craftsmanship, industry, and workshops. The set includes 33 impact rings and 5 impact tubes made of extra strong steel, as well as 1 SELCTHOR with two different impact inserts (PU/CA). The tool set allows for a damage-free installation of bearings without damaging shafts, bearing housings, or seal rings.

Benefits

- Application-oriented assembly for universal use
- The combination of impact ring and impact sleeve required for the installation of the ball bearing can be taken from the table in the suitcase lid
- By combining the impact ring and impact tube, the installation forces are never transmitted through the rolling elements of the bearing, thus preserving them

BUILD-UP



SET

The storage inserts are available in various suitcase sets. Depending on the application, different assortments can be chosen.







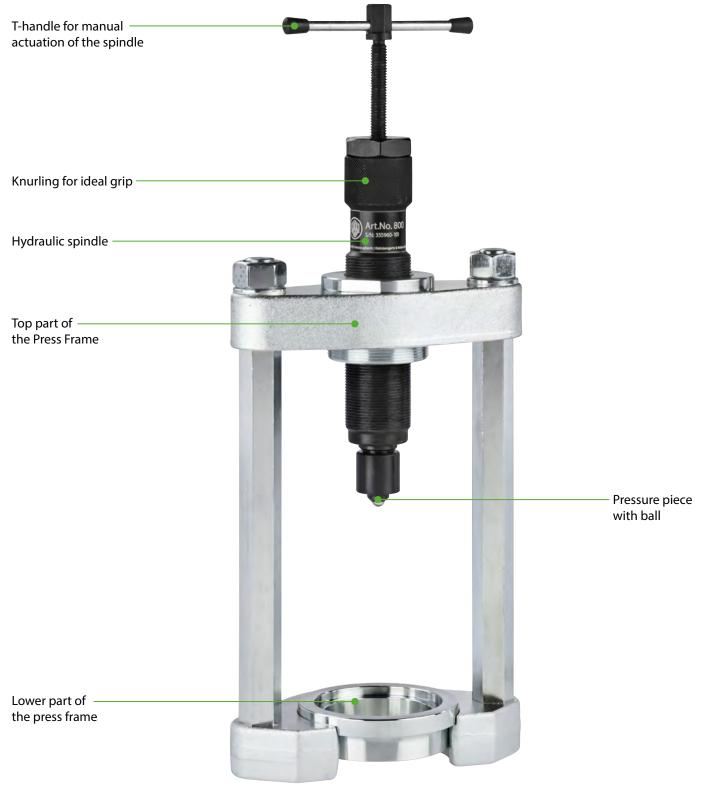
USE OF UNIVERSAL PRESS FRAME OF SERIES 880 & 890

The universal press frames for silent bushes are used for axle replacement at the front and rear axle without disassembling the axle in the automotive industry, e.g. for silent bearings, hydraulic bearings, plastic bearings, ball joints, or shock absorber rubber. The press frames of series 880 are available in various designs for varying load requirements and are universally applicable.

Benefits

- The compact and robust design makes the press frame versatile in its application.
- The hydraulic system enables high pulling performance with low effort.
- The axially operating piston does not rotate with the hydraulic spindle.

ASSEMBLY



USE OF THE AXLE BALL JOINT PRESS AXLE

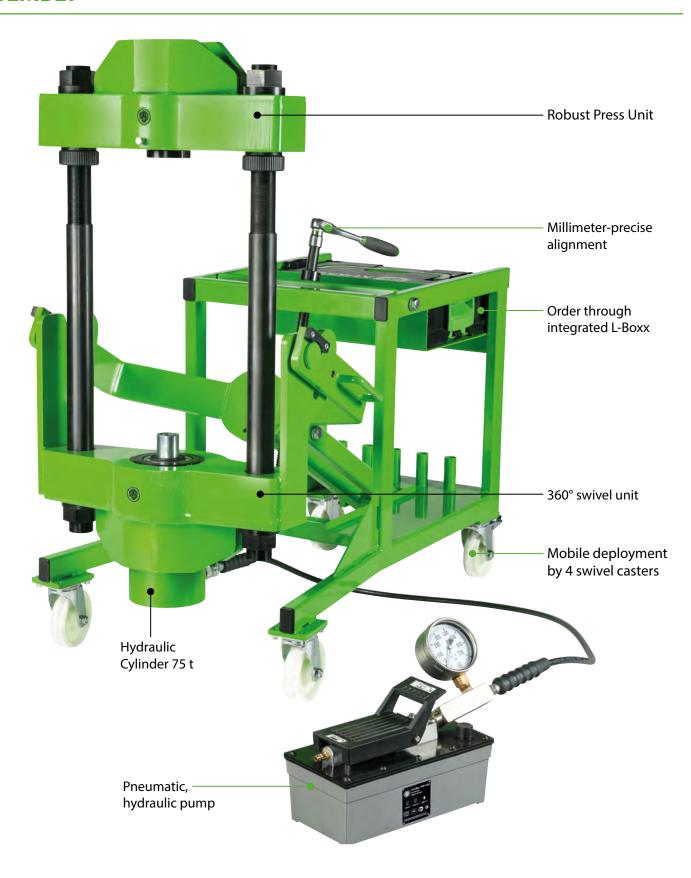
The hydraulic axle pin press is used for the quick pressing in and out of all common axle pins on commercial vehicle front axles. For positioning, the working unit is swiveling and adjustable, and the flat design allows work even on low-lying vehicles.

Benefits

- The press can be used in both the assembled and disassembled state of the axle
- The 360° swiveling lever actuation enables ergonomic operation from the working area
- Flexible to position in the workshop due to mobile deployment

L

ASSEMBLY





Inserting the appropriate impact ring into the impact tube when using a K-71 set



The hydraulic axle joint bolt press "AXLE" Y-AP-75 is adjusted with a ratchet.



Pressing a bearing using a K-71



The hydraulic axle tie rod press "AXLE" Y-AP-75 is ready for use on a truck.

SERIES 71 BEARING INSTALLATION TOOL SET MADE OF STEEL, HEAVY-DUTY



The heavy-duty bearing installation tool set made of steel from series 71 is used for the installation of bearings using a hydraulic press or hammer in crafts, industry, and workshops. The set includes 33 impact rings and 5 impact tubes made of extra strong steel, as well as 1 SELECTHOR with two different impact inserts (PU/CA). The tool set allows for damage-free installation of bearings without damaging shafts, bearing housings, or seal rings.

Benefits

- · Application-oriented assembly for universal use
- By storing it in the box, the completeness of the set can be easily overviewed
- The included SELECTHOR hammer can be used flexibly by swapping the provided striking heads.

Technical attributes

#	 	Ä				
	EAN	mm/inch	mm/inch	mm/inch	mm/inch	kg/lb
71	-314841	15, 20, 30, 40, 55 9/16;13/16;1 3/16;1 9/16;2 3/16	25, 30, 40, 50, 65 1	225 8 7/8	26 - 110 1 1/32-4 5/16	17,75 39,139

SERIES 71-L BEARING INSTALLATION TOOL SET MADE OF STEEL, HEAVY-DUTY



The 37-piece bearing installation tool set, as a lightweight external mounting model of series 71-L, is used for the quick, precise, and safe installation of bearings and seals in craft, industry, and workshops. The set includes 33 impact rings made of impact-resistant polyethylene terephthalate and 3 impact tubes made of aluminum, as well as 1 SELECTHOR with two different impact inserts (PU/CA). The tool set enables damage-free installation of bearings without damaging shafts, bearing housings, or seal rings.

Benefits

- Application-oriented assembly for universal use
- By storing it in the box, the completeness of the set can be easily overviewed.
- The included SELECTHOR hammer can be used flexibly by swapping the provided striking heads.

#	 4021176				i	
	EAN	mm/inch	mm/inch	mm/inch	kg/lb	
71-L	-782121	19, 32, 50 3/4, 1 1/4, 1 15/16	220 8 11/16	26 - 110 1 1/32-4 5/16	6,34 13,980	

SERIES 71-L-F BEARING INSTALLATION TOOL SET MADE OF STEEL, HEAVY-DUTY



The 37-piece bearing installation tool set made of steel from the series 71-L-F is used for the quick, precise, and safe installation of bearings and seals in crafts, industry, and workshops. The set includes 33 impact rings made of impact-resistant polyethylene terephthalate, 3 impact tubes made of aluminum, and a soft-face hammer. The tool set guarantees damage-free installation of bearings, axles, bearing housings, or seal rings and is used, among others, in the food industry.

Benefits

- · Application-oriented assembly for universal use
- By storing it in the box, the completeness of the set can be easily overviewed.
- · Usable for mounting in the housing, on the shaft, or both simultaneously

Technical attributes

#					i
	EAN	mm/inch	mm/inch	mm/inch	kg/lb
71-L-F	-007613	19, 32, 50 3/4, 1 1/4, 1 15/16	220 8 11/16	26 - 110 1 1/32-4 5/16	6,34 13,980

SERIES K-71-L-A BALL BEARING INSTALLATION SET



The 22-piece ball bearing installation kit K-71-L-A is used for the fast, precise, and secure installation of bearings and seals in craft, industry, and workshop. The set includes 18 impact rings made of impact-resistant polyethylene terephthalate, 2 impact tubes made of aluminum, an impact head, and a soft-face hammer. The tool set ensures a damage-free installation of bearings without damaging shafts, bearing housings, or seal rings.

Benefits

- Application-oriented assembly for universal use
- By storing it in the box, the completeness of the set can be easily overviewed.
- By combining the impact ring and impact tube, the installation forces are never transmitted through the roller bodies of the bearing, thus protecting it.

#	 				i
	EAN	mm/inch	mm/inch	mm/inch	kg/lb
K-71-L-A	-909818	19, 32 3/4;1 1/4	220 8 11/16	26 - 55 1 1/32-2 3/16	5,155 11,367



SERIES K-71-L-B BALL BEARING INSTALLATION SETBALL BEARING INSTALLATION KIT



The 20-piece K-71-L-B ball bearing installation set is used for the quick, precise, and safe installation of bearings and seals in crafts, industry, and workshops. The set includes 16 impact rings made of impact-resistant polyethylene terephthalate, 2 impact tubes made of aluminum, an impact head, and a soft-face hammer. The tool set ensures a damage-free installation of bearings without damaging shafts, bearing housings, or seal rings.

Benefits

- · Application-oriented assembly for universal use
- By storing it in the box, the completeness of the set can be easily overviewed.
- By combining the impact ring and impact tube, the installation forces are never transmitted through the roller bodies of the bearing, thus protecting it.

Technical attributes

#	4021176				i
	EAN	mm/inch	mm/inch	mm/inch	kg/lb
K-71-L-B	-909825	32, 50	220	52 - 110	6,15
		1 1/4, 1 15/16	8 11/16	2 1/16-4 5/16	13,561

SERIES K-71-L-C BALL BEARING INSTALLATION SETBALL BEARING INSTALLATION SET



The 38-piece ball bearing installation set K-71-L-C is used for the quick, precise, and safe installation of bearings and seals in crafts, industry, and workshops. The set includes 33 impact rings made of impact-resistant polyethylene terephthalate, 3 impact tubes made of aluminum, an impact head, and a soft-face hammer. The tool set ensures a damage-free installation of bearings without damaging shafts, bearing housings, or seal rings.

Benefits

- Application-oriented assembly for universal use
- By storing it in the box, the completeness of the set can be easily overviewed.
- By combining the impact ring and impact tube, the installation forces are never transmitted through the roller bodies of the bearing, thus protecting it.

#			<u> </u>		
	EAN	mm/inch	mm/inch	mm/inch	kg/lb
K-71-L-C	-909832	19, 32, 50 1 1/4, 1 15/16	220 8 11/16	26 - 110 1 1/32-4 5/16	6,555 14,454



The universal press frames for silent bushings are used for axle changes on the front and rear axles in automotive applications without removing the axle, for example, for silent bearings, hydraulic bearings, plastic bearings, control arms or shock absorber rubber. The press frames of the series 880 are available in various designs for varying load requirements and can be used universally.

Benefits

- For the series 800, there are numerous easily interchangeable and combinable individual parts and extensions.
- The compact and sturdy design makes the press frames versatile in their application.

Technical attributes

#		Ţ		P	Max. Pressing force	i
	EAN	mm/inch	mm/inch	Nm/ft lb	t/US t. sh.	kg/lb
880-800	-433689	200 7 7/8	80 3 1/8	40 29.50	10 11.02 tn sh	7,1 15,656
880-801	-433696	200 7 7/8	80 3 1/8	70 51.63	15 16.53 tn sh	6,7 14,774
880-802	-433702	200 7 7/8	80 3 1/8	100 73.76	20 22.05 tn sh	7,16 15,788

SERIES 890 PULLER SET FOR EVOBUS SUSPENSION JOINTS



The puller set for suspension joints EVOBUS is used for the installation and removal of the control arm on ZF axles. The tools can be applied on axles RL 75 E, which serve as the front axle for all high-floor buses (buses with trunk, coaches from Euro II and combi buses from Euro IV) from Setra and Mercedes-Benz. Furthermore, they are applicable to the axles RL 75 EC, which are used as front axles for low-floor buses (Citaro, Setra low-floor series 400 or S 415 NF), and in coaches and combi buses as auxiliary axles.

Benefits

- The smooth-running spindle with trapezoidal thread allows for precise force transmission.
- · Special tool for optimal application on ZF axles

#	######################################	$\overline{\downarrow}$		SW →	P	Max. Pressing force	
	EAN	mm/inch	mm/inch	mm/inch	Nm/ft lb	t/US t. sh.	kg/lb
890-EVO1	-020834	320 12 5/8	58 - 79 2 5/16-3 1/8	36 1 7/16	400 295.04	12 13.23 tn sh	12,69 27,981



SERIES AXLE MOBILE HYDRAULIC AXLE PIN PRESS "AXLF"



The hydraulic axle joint press of the Axle series is used for the quick pressing in and out of all common axle joints on commercial vehicle front axles in workshops, industry, and automotive applications. The Axle series impresses with its time-saving and universal application. For quick and easy positioning, the working unit is pivotable and pre-adjustable, and the flat design allows work even on low-lying vehicles.

Benefits

- The press can be used both in the assembled and disassembled state of the axle.
- The 360° swivel lever actuation enables ergonomic operation from the work area.

Technical attributes

#	4021176	, D	LH	H		\bigcirc		Max. pressing force	
	EAN	mm/inch	mm/inch	mm/inch	mm/inch	bar	0	t/US t. sh.	kg/lb
Y-AP-75	-691157	370 14 9/16	615 24 3/16	1.100 43 5/16	155 6 1/8	700	360	75 82.67 tn sh	286 630,630

SERIES Y-AP-3XX ACCESSORIES FOR HYDRAULIC PULLING



The accessories for "AXLE" Y-AP-75 are used together with it for the quick and problem-free pressing out and in of truck axle eye bolts in craftsmanship, industry, and workshops.

#	 	Ø	←	i	
	EAN	mm/inch	mm/inch	kg/lb	
Y-AP-371	-060076	21,5 - 39 13/16-1 9/16	120 - 220 4 3/4-8 11/16	10,7 23,594	Y-AP-75
Y-AP-372	-060083	50 - 66 1 15/16-2 5/8	35 - 100 1 3/8-3 15/16	0 0,000	Y-AP-75
Y-AP-373	-060090	22 - 37 7/8-1 7/16	70 - 220 2 3/4-8 11/16	19,1 42,116	Y-AP-75







GRIPPING & HOLDING

Holding, gripping, expanding, and compressing multiple workpieces, separating flange connections, widening the receptacle of struts, tensioning and riveting chains, removing and tensioning coil springs, or guiding the tilt during engine removal – KUKKO offers the perfect solution for every application.

The activity of Gripping & Holding includes, among others:

- Clamps
- Clamping jaws
- Vises
- Flange spreaders
- Pliers
- Spreaders
- Chain tensioners
- Spring tensioners
- Tool holders
- URANOS

DEPLOYMENT

The clamping tools from KUKKO are the ideal choice when it comes to securing or holding workpieces together. Depending on the area of application or required clamping force, KUKKO offers various tools for individual processing with the file clamps, screw clamps, locking pliers, and screw blocks.

ASSEMBLY CLAMP USING EXAMPLE 490P



Benefits

- The 2K comfort grip provides an optimal grip when hands are wet or oily
- Maximum power transmission thanks to the contoured grip with haptic surface
- Anti-slip safety enables a simple locking of the sliding piece
- Secure positioning of the sliding block
- Preset of the reach
- One-handed locking of the sliding jaw
- Tension force up to 7,000 N (depending on model)
- KTL coating provides significantly increased corrosion protection

CLAMPS



The VIRIDIS ductile iron clamps with 2K comfort grip are used for compressing and holding multiple workpieces. Thanks to the steel sliding rail, high clamping force can be achieved. The series 490P is equipped with a 2-component handle that allows for safe and

stable work.

CLAMP JAW



SERIES 101

The hand vises with a wide jaw and hexagon nut are used for flat clamping of smaller workpieces. The inner side of the jaws is ribbed with a prismatic notch, allowing round and angular parts to be clamped. Ideal for finer machining as well as forging work.

LOCKING PLIERS



SERIES 690

The universal locking pliers are used for securely holding and compressing round, Profilee, and flat materials. The locking pliers are very handy and can be operated with one hand. The knee lever mechanism also allows for the application of very high forces.

FLANGE SPREADER



SERIES 160

The flange spreaders are used in pairs for safely and accident-free separating flange connections of piping in power plants, petrochemicals, or off-shore. They enable the separation of large and high-performance flanges, facilitating maintenance work.

VISES



SERIES 525

The parallel vises with extremely high clamping force are used for clamping and securing workpieces. Due to the induction-hardened parts, the vise is ideally suited for fixing medium-sized workpieces. In addition, this ensures the necessary durability and stability of the vise.

MOTOR DIRECTOR

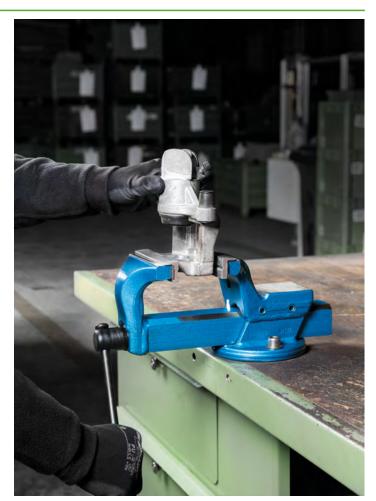


SERIES URANOS

The engine conductor "URANOS" is used for controlling the angle when installing and removing engines, transmissions, and batteries of all types in industry and workshop. By operating the hand chain, the engine conductor can be universally and easily adjusted to ensure smooth operation on the engine.



In welding applications, the all-steel clamping tool acts as a "third hand." The image shows a model from the series 469P.



Clamping a workpiece with a vice from the 525 series.



Cutting a wire with a universal locking pliers from the series 690.



 $Two\ hand\ vises\ 101\text{-}100\ for\ clamping\ several\ workpieces\ for\ drilling\ operations.$

SERIES 101 HAND VISE WITH WIDE JAW



The hand vises with a wide jaw and hex nut of the series 101 are used for flat clamping of workpieces in workshops, industry, and crafts. The inner side of the jaws is grooved with a prismatic cut, allowing round and angular parts to be clamped. The series 101 impresses with its convenience, enabling rotation and flipping of the workpiece during operation.

Benefits

- · Universal usability in various work situations
- Robust design with flexible hinge guidance

Technical attributes

#	4 021176	←		<u> </u>	
	EAN	mm/inch	mm/inch	mm/inch	kg/lb
101-100	-535049	100 3 15/16	40 1 9/16	18 11/16	0,365 0,805
101-120	-535124	120 4 3/4	45 1 3/4	22 7/8	0,5 1,103
101-130	-042225	130 5 1/8	48 1 7/8	25 1	0,545 1,202
101-145	-535384	145 5 11/16	52 2 1/16	28 1 1/8	0,85 1,874
101-160	-535469	160 6 5/16	58 2 5/16	35 1 3/8	1,04 2,293
101-180	-535537	180 7 1/16	60 2 3/8	40 1 9/16	1,56 3,440
101-200	-535612	200 7 7/8	65 2 9/16	45 1 3/4	2 4,410

SERIES 102-120 POINTED JAW VISE WITH POINTED MOUTH AND WING NUTHAND VISE WITH WIDE JAW



The pointed jaw vise with pointed mouth and wing nut of the series 102 is used for particularly firm gripping of workpieces on a small surface in workshops, industry, and crafts. The inner side of the jaws is ribbed with a prismatic cut, so that round and angular parts can be clamped. The series 102 impresses with its handy design, which allows for rotating and turning the workpiece during operation.

Benefits

- Universal usability in various work situations
- · Robust design with flexible joint guidance

#	4 021176	L ←──→		<u> </u>	i
	EAN	mm/inch	mm/inch	mm/inch	kg/lb
102-120	-527617	120 4 3/4	13 1/2	20 13/16	0,355 0,783

SERIES 103 HAND VISE WITH WIDE JAWS AND KEYHAND VISE WITH WIDE JAW



The hand vises with wide jaws and key of series 103 are used for flat clamping of workpieces in workshops, industry, and crafts. The inner side of the jaws is grooved with a prismatic cut, allowing both round and angular parts to be clamped securely. The series 103 impresses with its convenience, enabling rotation and turning of the workpiece while working.

Benefits

- Universal Applicability in Various Work Situations
- The key enables a quick and secure grip on the workpiece
- Different designs allow for application depending on the size of the workpiece.

Technical attributes

#	4021176	L ←—→		1	•
	EAN	mm/inch	mm/inch	mm/inch	kg/lb
103-160	-909833	160 6 5/16	58 2 5/16	35 1 3/8	1,075 2,370
103-180	-527952	180 7 1/16	60 2 3/8	40 1 9/16	1,635 3,605
103-200	-528034	200 7 7/8	65 2 9/16	45 1 3/4	2,365 5,215

SERIES 106 DOUBLE STRONG HAND VISE WITH WIDE JAWHAND VISE WITH WIDE JAW



The double-strong hand vises with wide jaw, hex nut, and key from series 106 are used for clamping workpieces in medium-heavy tasks in steel construction. The inner side of the jaws is grooved with a prismatic cut, allowing for the clamping of round and angular parts. Series 106 impresses with its ease of handling, enabling rotation and flipping of the workpiece during operation.

Benefits

- Universal usability in various work situations
- The key enables a quick and secure grip on the workpiece

#		<u>L</u> ←—→		1	
	EAN	mm/inch	mm/inch	mm/inch	kg/lb
106-180	-528782	180 7 1/16	68 2 11/16	40 1 9/16	2,335 5,149
106-200	-528867	200 7 7/8	70 2 3/4	45 1 3/4	2,935 6,472

SERIES 107 HAND VISES FOR INSTALLERS WITH WIDE JAWSHAND VISE WITH WIDE JAW



The hand vises for installers with wide jaws, hex nut, and wrench from the series 107 are used to clamp workpieces during the work of installers and plumbers. The inner side of the jaws is ribbed with a prismatic cut, allowing for the clamping of round and angular parts. The series 107 impresses with its handling, which allows for rotating and turning the workpiece during work.

Benefits

- Universal Applicability in Various Work Situations
- The key enables a quick and secure grip on the workpiece.

Technical attributes

#	4 021176	L	ÉI.	<u> </u>	i
	EAN	mm/inch	mm/inch	mm/inch	kg/lb
107-200	-528942	200	85	50	2,995
		7 7/8	3 3/8	1 15/16	6,604

SERIES 109 WIDE MOUTH MACHINE CLAMP



The machine vises with wide jaws, hexagon nut and key of series 109 are used for clamping workpieces under the highest stress in workshops, industry, and craftsmanship. The inside of the jaws is grooved with a prismatic cut, allowing both round and angular parts to be clamped. The series 109 convinces with its handling, enabling rotation and repositioning of the workpiece while working.

Benefits

- Universal usability in various work situations
- The key enables a quick and secure grip on the workpiece.

#	 	L →		1	
	EAN	mm/inch	mm/inch	mm/inch	kg/lb
109-160	-529024	160 6 5/16	65 2 9/16	40 1 9/16	2,27 5,005
109-180	-529109	180 7 1/16	70 2 3/4	40 1 9/16	3,3 7,277
109-200	-529284	200 7 7/8	80 3 1/8	50 1 15/16	3,52 7,762
109-250	-529369	250 9 13/16	90 3 9/16	60 2 3/8	5,465 12,050

SERIES 112-100 NARROW JAW PULLER WITH A 45-DEGREE ANGLED MOUTH



The screw clamps with narrow, angled jaws of the series 112-100 are used for clamping tires from barrels, saw blades during sharpening, etc. in workshops, industry, and trade. The series 112-100 impresses with its application-oriented specialization, ensuring optimal clamping.

Benefits

- Universal usability in various work situations
- · Very robust design with flexible joint guidance

Technical attributes

#		L →		1	i
	EAN	mm/inch	mm/inch	mm/inch	kg/lb
112-125	-529444	125 4 15/16	28 1 1/8	32 1 1/4	0,595 1,312
112-150	-529512	150 5 7/8	40 1 9/16	35 1 3/8	1 2,205

SERIES 113-1 FLAT FILE CLAMP WITH FINE JAWHAND VISE WITH WIDE JAW



The 113 series stem clamping vises with fine jaws are used for clamping particularly fine workpieces in workshops, industry, and craftsmanship. The inside of the jaws is ribbed with a prismatic cut, allowing round and angular parts to be clamped. The 113 series is particularly suitable for fine work, for example on watches, and enables a delicate and precise working method.

Benefits

- Universal usability in various work situations
- Robust design with flexible hinge guidance

#		<u>L</u>		<u> </u>	i
	EAN	mm/inch	mm/inch	mm/inch	kg/lb
113-115	-599232	115 4 9/16	16 5/8	6 1/4	0,06 0,132
113-116	-589745	115 4 9/16	16 5/8	6 1/4	0,01 0,022
113-130	-599317	130 5 3/16	20 13/16	7 1/4	0,085 0,187
113-131	-589820	130 5 3/16	20 13/16	7 1/4	0,08 0,176

SERIES 469 ALL-STEEL SCREW CLAMPS VIRIDIS WITH WOODEN HANDLE



The all-steel clamping tools VIRIDIS with wooden handle from series 469 are used for compressing and holding multiple workpieces in crafts, industry, and workshops. With the built-in spring suspension, the clamps absorb the vibrations of the workpiece. Series 469, with its round wooden handle, is the classic of the clamping tool range.

Benefits

- Tensile force up to 10,000 N
- The pressure plate with integrated spindle locking prevents loosening during vibrations on the workpiece.
- Numerous variations of the spread and extension of clamps allow for holding parts of various sizes.

#	4021176	L ←—→	H -*	Power	<u>∓</u>	
	EAN	mm/inch	mm/inch	N	mm/inch	kg/lb
59-0100-050	-140304	151 5 15/16	100 / 50 3 15/16 1 15/16	2.200	11,5 x 5,7 7/16 x 1/4	0,203 0,448
59-0120-060	-022686	181 7 1/8	120 / 60 4 3/4 2 3/8	2.700	13,5 x 6,5 9/16 x 1/4	0,28 0,617
59-0160-080	-010798	225 8 7/8	160 / 80 6 5/16 3 1/8	3.000	16 x 7,5 5/8 x 5/16	0,52 1,147
59-0200-050	-022822	251 9 7/8	200 / 50 7 7/8 1 15/16	2.200	11,5 x 5,7 7/16 x 1/4	0,245 0,540
59-0200-060	-022990	261 10 1/4	200 / 60 7 7/8 2 3/8	2.700	13,5 x 6,5 9/16 x 1/4	0,3 0,662
59-0200-080	-023058	265 10 7/16	200 / 80 7 7/8 3 1/8	3.000	16 x 7,5 5/8 x 5/16	0,55 1,213
59-0200-100	-023126	280 11 1/32	200 / 100 7 7/8 3 15/16	4.500	19,5 x 9,5 3/4 x 3/8	0,945 2,084
69-0250-100	-023232	330 12 1	250 / 100 9 13/16 3 15/16	4.500	19,5 x 9,5 3/4 x 3/8	1 2,205
59-0250-120	-023294	337 13 1/4	250 / 120 9 13/16 4 3/4	5.500	22 x 10,5 7/8 x 7/16	1,265 2,789
59-0300-050	-023676	351 13 13/16	300 / 50 11 13/16 1 15/16	2.200	11,5 x 5,7 7/16 x 1/4	0,285 0,628
69-0300-060	-023744	361 14 3/16	300 / 60 11 13/16 2 3/8	2.700	13,5 x 6,5 9/16 x 1/4	0,5 1,103
59-0300-080	-023812	365 14 3/8	300 / 80 11 13/16 3 1/8	3.000	16 x 7,5 5/8 x 5/16	0,66 1,455
59-0300-100	-023980	380 14 15/16	300 / 100 11 13/16 3 15/16	4.500	19,5 x 9,5 3/4 x 3/8	1,065 2,348
59-0300-120	-024116	387 15 1/4	300 / 120 11 13/16 4 3/4	5.500	22 x 10,5 7/8 x 7/16	1,345 2,966
59-0300-140	-024284	396 15 9/16	300 / 140 11 13/16 5 1/2	6.700	25 x 12 1 x 1/2	1,85 4,079
59-0400-100	-010927	480 18 7/8	400 / 100 15 3/4 3 15/16	4.500	19,5 x 9,5 3/4 x 3/8	0,9 1,985
59-0400-120	-024734	496 19 1/2	400 / 120 15 3/4 4 3/4	7.500	25 x 12 1 x 1/2	1,97 4,344
59-0400-120-S	-548520	487 19 3/16	400 / 120 15 3/4 4 3/4	5.500	22 x 10,5 7/8 x 7/16	1,49 3,285
59-0500-120	-024802	596 23 7/16	500 / 120 19 11/16 4 3/4	7.500	25 x 12 1 x 1/2	2,175 4,796
59-0600-120	-010965	696 27 3/8	600 / 120 23 5/8 4 3/4	7.500	25 x 12 1 x 1/2	0,9 1,985
59-0600-120-S	-548537	687 27 1/16	600 / 120 23 5/8 4 3/4	5.500	22 x 10,5 7/8 x 7/16	1,6 3,528
69-0800-120	-025038	900 35 7/16	800 / 120 31 1/2 4 3/4	10.000	27 x 13 1 1/16 x 1/2	3,19 7,034
59-1000-120	-025106	1.100 43 5/16	1.000 / 120 39 3/8 4 3/4	10.000	27 x 13 1 1/16 x 1/2	4,85 10,694
69-1250-120	-025274	1.350 53 1/8	1.250 / 120 49 3/16 4 3/4	10.000	27 x 13 1 1/16 x 1/2	4,295 9,470
59-1500-120	-025342	1.600	1.500 / 120 59 1/16 4 3/4	10.000	27 x 13	5,245

SERIES 469P ALL-STEEL CLAMPS VIRIDIS WITH 2K COMFORT GRIP



The all-steel screw clamps VIRIDIS with 2K comfort grip of the series 469P are used for compressing and holding multiple workpieces in craft, industry, and workshop. With the built-in spring mechanism, the screw clamps absorb the vibrations of the workpiece. The series 469P features a 2-component grip that enables safe and stable work.

Benefits

- Tension force up to 10,000 N
- The pressure plate with integrated spindle locking prevents loosening during vibrations on the workpiece.
- Numerous variations of the spread and extension of clamps allow for holding parts of various sizes.

#		L ←—→	—	Power	<u></u> <u>∓</u>	
	EAN	mm/inch	mm/inch	N	mm/inch	kg/lb
169P0100-050 NEW	-780172	151 5 15/16	100 / 50 3 15/16 1 15/16	2.200	11,5 x 5,7 7/16 x 1/4	0,235 0,518
169P0200-050	-779589	251 9 7/8	200 / 50 7 7/8 1 15/16	2.200	11,5 x 5,7 7/16 x 1/4	0,57 1,257
169P0250-120 NEW	-780219	337 13 1/4	250 / 120 9 13/16 4 3/4	5.500	22 x 10,5 7/8 x 7/16	1,255 2,767
169P0300-120	-779688	387 15 1/4	300 / 120 11 13/16 4 3/4	5.500	22 x 10,5 7/8 x 7/16	1,065 2,348
169P0400-120-S	-009105	487 19 3/16	400 / 120 15 3/4 4 3/4	5.500	22 x 10,5 7/8 x 7/16	1,97 4,344
169P0600-120-S	-009099	687 27 1/16	600 / 120 23 5/8 4 3/4	5.500	22 x 10,5 7/8 x 7/16	1,6 3,528
169P0300-140 NEW	-780264	396 15 9/16	300 / 140 11 13/16 5 1/2	6.700	25 x 12 1 x 1/2	1,78 3,925
169P0400-120 NEW	-780226	496 19 1/2	400 / 120 15 3/4 4 3/4	7.500	25 x 12 1 x 1/2	1,97 4,344
169P0500-120 NEW	-779695	596 23 7/16	500 / 120 19 11/16 4 3/4	7.500	25 x 12 1 x 1/2	2,17 4,785
469P0600-120 NEW	-780233	696 27 3/8	600 / 120 23 5/8 4 3/4	7.500	25 x 12 1 x 1/2	2,375 5,237
169P0800-120 NEW	-779701	900 35 7/16	800 / 120 31 1/2 4 3/4	10.000	27 x 13 1 1/16 x 1/2	3,19 7,034
169P1000-120 NEW	-780240	1.100 43 5/16	1.000 / 120 39 3/8 4 3/4	10.000	27 x 13 1 1/16 x 1/2	3,66 8,070
169P1250-120 NEW	-780257	1.350 53 1/8	1.250 / 120 49 3/16 4 3/4	10.000	27 x 13 1 1/16 x 1/2	4,3 9,482
169P0400-100	-779671	480 18 7/8	400 / 100 15 3/4 3 15/16	4.500	19,5 x 9,5 3/4 x 3/8	0,235 0,518
169P0300-100	-779664	380 14 15/16	300 / 100 11 13/16 3 15/16	4.500	19,5 x 9,5 3/4 x 3/8	0,235 0,518
169P0300-050	-779596	351 13 13/16	300 / 50 11 13/16 1 15/16	2.200	11,5 x 5,7 7/16 x 1/4	0,235 0,518
169P0120-060 NEW	-780189	181 7 1/8	120 / 60 4 3/4 2 3/8	2.700	13,5 x 6,5 9/16 x 1/4	0,335 0,739
169P0200-060	-779602	261 10 1/4	200 / 60 7 7/8 2 3/8	2.700	13,5 x 6,5 9/16 x 1/4	0,235 0,518
169P0300-060	-779619	361 14 3/16	300 / 60 11 13/16 2 3/8	2.700	13,5 x 6,5 9/16 x 1/4	0,235 0,518
469P0160-080 NEW	-780196	225 8 7/8	160 / 80 6 5/16 3 1/8	3.000	16 x 7,5 5/8 x 5/16	0,52 1,147
169P0200-080	-779626	265 10 7/16	200 / 80 7 7/8 3 1/8	3.000	16 x 7,5 5/8 x 5/16	0,235 0,518
469P0300-080	-779633	365 14 3/8	300 / 80 11 13/16 3 1/8	3.000	16 x 7,5 5/8 x 5/16	0,235 0,518
169P0400-080	-779640	465 18 5/16	400 / 80 15 3/4 3 1/8	3.000	16 x 7,5 5/8 x 5/16	0,235 0,518
169P0200-100 NEW	-780202	280 11 1/32	200 / 100 7 7/8 3 15/16	4.500	19,5 x 9,5 3/4 x 3/8	0,96 2,117
169P0250-100	-779657	330 12 1	250 / 100 9 13/16 3 15/16	4.500	19,5 x 9,5 3/4 x 3/8	0,235 0,518
169P1500-120	-779718	1.600 62 1	1.500 / 120 59 1/16 4 3/4	-	27 x 13 1 1/16 x 1/2	0,235 0,518

SERIES 469K ALL-STEEL SCREW CLAMPS VIRIDIS WITH KNURLED GRIP

The all-steel clamps VIRIDIS with knob handle of the series 469K are used to compress and hold multiple workpieces in crafts, industry, and workshops. With the built-in suspension, the clamps absorb the vibrations of the workpiece. The series 469K features a knob handle that allows for particularly tight fastening.



Benefits

- Tension force up to 10,000 N
- The pressure plate with integrated spindle locking prevents loosening during vibrations on the workpiece.

Technical attributes

#	 	L ←	Ħ	Power	<u>∓</u>	i
	EAN	mm/inch	mm/inch	N	mm/inch	kg/lb
469K0160-080	-025410	225 8 7/8	160 / 80 6 5/16 3 1/8	3.000	16 x 7,5 5/8 x 5/16	0,925 2,040
469K0200-100	-025519	280 11 1/32	200 / 100 7 7/8 3 15/16	4.500	19,5 x 9,5 3/4 x 3/8	0,915 2,018
469K0250-120	-025588	337 13 1/4	250 / 120 9 13/16 4 3/4	5.500	22 x 10,5 7/8 x 7/16	1,245 2,745
469K0300-140	-025656	396 15 9/16	300 / 140 11 13/16 5 1/2	6.700	25 x 12 1 x 1/2	1,84 4,057
469K0400-120	-026264	496 19 1/2	400 / 120 15 3/4 4 3/4	7.500	25 x12 1 x 1/2	0,8 1,764
469K0500-120	-026646	596 23 7/16	500 / 120 19 11/16 4 3/4	7.500	25 x 12 1 x 1/2	2,175 4,796
469K0600-120	-027636	696 27 3/8	600 / 120 23 5/8 4 3/4	7.500	25 x 12 1 x 1/2	2,375 5,237
469K0800-120	-027872	900 35 7/16	800 / 120 31 1/2 4 3/4	10.000	27 x 13 1 1/16 x 1/2	3,215 7,089
469K1000-120	-027940	1.100 43 5/16	1.000 / 120 39 3/8 4 3/4	10.000	27 x 13 1 1/16 x 1/2	3,66 8,070
469K1250-120	-028008	1.350 53 1/8	1.250 / 120 49 3/16 4 3/4	10.000	27 x 13 1 1/16 x 1/2	4,275 9,426
469K1500-120	-028480	1.600 62 1	1.500 / 120 59 1/16 4 3/4	10.000	27 x 13 1 1/16 x 1/2	4,875 10,749

SERIES 469PU ALL-STEEL CLAMPS VIRIDIS WITH 2K COMFORT FOLDING HANDLE



Technical attributes

The all-steel VIRIDIS clamps with 2K comfort folding handle from the 469PU series are used for compressing and holding multiple workpieces in crafts, industry, and workshops. With the built-in suspension, the clamps absorb the vibrations of the workpiece. The 469PU series is equipped with a 3-component folding handle that allows for safe and stable work.

Benefits

- Tensile force up to 7,500 N
- The pressure plate with integrated spindle locking prevents loosening during vibrations on the workpiece.
- Numerous variations of the spread and extension of clamps allow for holding parts of various sizes.

#	 	L ← — →	Ħ.	Power	<u></u>	i
	EAN	mm/inch	mm/inch	N	mm/inch	kg/lb
469PU0200-100 NEW	-780271	280 11 1/32	200 / 100 7 7/8 3 15/16	4.500	19,5 x 9,5 3/4 x 3/8	1,8 3,969
469PU0250-120 NEW	-780288	337 13 1/4	250 / 120 9 13/16 4 3/4	5.500	22 x 10,5 7/8 x 7/16	1,31 2,889
469PU0300-140 NEW	-780295	396 15 9/16	300 / 140 11 13/16 5 1/2	6.700	25 x 12 1 x 1/2	1,96 4,322
469PU0400-120 NEW	-780301	496 19 1/2	400 / 120 15 3/4 4 3/4	7.500	25 x 12 1 x 1/2	0,89 1,962
469PU0600-120 NEW	-780318	696 27 3/8	600 / 120 23 5/8 4 3/4	7.500	25 x 12 1 x 1/2	2,525 5,568



The all-steel locksmith clamps with knob grip of the 473K series are used for clamping under heavy loads in crafts, industry, and workshops. The heavy locksmith clamp withstands the required increased performance and thus enables application in extreme cases.

Benefits

- Tension force up to 10,000 N
- Hexagon allows the use of a key, ratchet, or impact wrench.

Technical attributes

#		L ←──→	Ħ	Power	<u> </u>	
	EAN	mm/inch	mm/inch	N	mm/inch	kg/lb
473K0200-120	-031596	320 12 5/8	200 / 120 7 7/8 4 3/4	10.000	27 x 13 1 1/16 x 1/2	1,935 4,267
473K0250-120	-031664	370 14 9/16	250 / 120 9 13/16 4 3/4	10.000	27 x 13 1 1/16 x 1/2	2,04 4,498
473K0300-120	-031732	420 16 9/16	300 / 120 11 13/16 4 3/4	10.000	27 x 13 1 1/16 x 1/2	2,38 5,248
473K0400-120	-031800	520 20 1/2	400 / 120 15 3/4 4 3/4	10.000	27 x 13 1 1/16 x 1/2	2,39 5,270
473K0500-120	-031978	620 24 7/16	500 / 120 19 11/16 4 3/4	10.000	27 x 13 1 1/16 x 1/2	2,7 5,954
473K0600-120	-032036	720 28 3/8	600 / 120 23 5/8 4 3/4	10.000	27 x 13 1 1/16 x 1/2	2,8 6,174

SERIES 475K HEAVY ALL-STEEL LOCKSMITH CLAMPS WITH SCREW HANDLES



The heavy all-steel locksmith clamps with knurled grip of series 475K are used for heavy and strong applications when clamping workpieces in steel construction, locksmithing, commercial vehicle construction, mechanical engineering, etc. The heavy locksmith clamp also withstands the required increased loads and thus allows application in critical cases.

Benefits

- Tensile strength up to 12,000 N
- The movable special clamping cap allows for the clamping of oblique workpieces up to 35°.

#	4 021176	L	Ħ.	Power	<u> </u>	
	EAN	mm/inch	mm/inch	N	mm/inch	kg/lb
475K0250-120	-032104	388 15 1/4	250 / 120 9 13/16 4 3/4	12.000	30 x 15 1 3/16 x 9/16	2,695 5,942
475K0300-140	-032272	438 17 1/4	300 / 140 11 13/16 5 1/2	12.000	30 x 15 1 3/16 x 9/16	3 6,615
475K0500-140	-032418	638 25 1/8	500 / 140 19 11/16 5 1/2	12.000	30 x 15 1 3/16 x 9/16	3,57 7,872
475K0800-140	-032586	938 36 15/16	800 / 140 31 1/2 5 1/2	12.000	30 x 15 1 3/16 x 9/16	4,5 9,923
475K1000-120	-032654	1.138 44 13/16	1.000 / 120 39 3/8 4 3/4	12.000	30 x 15 1 3/16 x 9/16	5,5 12,128
475K1250-120	-032722	1.388 54 5/8	1.250 / 120 49 3/16 4 3/4	12.000	30 x 15 1 3/16 x 9/16	6 13,230
475K1500-120	-032890	1.638 64 1/2	1.500 / 120 59 1/16 4 3/4	12.000	30 x 15 1 3/16 x 9/16	6,5555 14,455

SERIES 476K HEAVY U-CLAMPS WITH KNOB GRIP



The heavy U-clamps with toggle grip from the 476K series are used for clamping on T and double-T steel beam Profilees in the industry. The heavy U-clamp also withstands the required increased performance, thus enabling application in critical cases.

Benefits

- Tensile strength up to 11,000 N
- The pressure plate with integrated spindle locking prevents loosening during vibrations on the workpiece.

Technical attributes

#		L ← →		Power	<u> </u>	i
	EAN	mm/inch	mm/inch	N	mm/inch	kg/lb
476K0300-140	-032968	535 21 1/16	300 / 140 11 13/16 5 1/2	11.000	30 x 15 1 3/16 x 9/16	3,665 8,081

SERIES 480K ALL-STEEL CONSTRUCTION CLAMPS WITH TOGGLE HANDLE



The all-steel clamps with screw handle of the 480K series are used for extra heavy and strong loads when clamping workpieces in steel construction, locksmiths, commercial vehicle construction, mechanical engineering, etc. The steel clamps also withstand the required increased loads, enabling their application in critical situations.

Benefits

- Tensile force up to 22,000 N
- · The movable special clamp allows for clamping oblique workpieces up to 35°.

 #	 	L		F	<u> </u>	1
111	4021176	←→		Power	Ĭ ← → Ĭ	
	EAN	mm/inch	mm/inch	N	mm/inch	kg/lb
480K0300-175	-033026	460 18 1/8	300 / 175 11 13/16 6 7/8	22.000	40 x 20 1 9/16 x 13/16	5,385 11,874
480K0400-175	-033262	560 22 1/16	400 / 175 15 3/4 6 7/8	22.000	40 x 20 1 9/16 x 13/16	5,955 13,131
480K0500-175	-033330	660 25 1	500 / 175 19 11/16 6 7/8	22.000	40 x 20 1 9/16 x 13/16	5,13 11,312
480K0600-175	-033408	760 29 15/16	600 / 175 23 5/8 6 7/8	22.000	40 x 20 1 9/16 x 13/16	8,2 18,081
480K0800-175	-033880	960 37 13/16	800 / 175 31 1/2 6 7/8	22.000	40 x 20 1 9/16 x 13/16	8,15 17,971
480K1000-175	-033958	1.160 45 11/16	1.000 / 175 39 3/8 6 7/8	22.000	40 x 20 1 9/16 x 13/16	9,245 20,385
480K1250-175	-034184	1.410 55 1/2	1.250 / 175 49 3/16 6 7/8	22.000	40 x 20 1 9/16 x 13/16	10,7 23,594
480K1500-175	-034252	1.660 65 3/8	1.500 / 175 59 1/16 6 7/8	22.000	40 x 20 1 9/16 x 13/16	11,775 25,964

SERIES 472 ALL-STEEL LEVER CLAMPS VIRIDIS



The all-steel lever clamps VIRIDIS of the series 472 are used for quickly and effortlessly clamping multiple workpieces with high clamping pressure in crafts, industry, and workshops. The optimized rail Profilee ensures uniform buildup of clamping force and greater power reserves, especially when fully utilizing the clamping spread. As a result, the series 472 is up to 5x faster than conventional clamps.

Benefits

- Tensile strength up to 6,000 N
- Through self-locking, insensitive to vibrations of the workpiece

#		L ←──→	Ħ	Fower	<u>∓</u>	i
	EAN	mm/inch	mm/inch	N	mm/inch	kg/lb
472H0120-060	-029302	181 7 1/8	120 / 60 4 3/4 2 3/8	1.600	13,5 x 6,5 9/16 x 1/4	0,4 0,882
472H0160-080	-030292	225 8 7/8	160 / 80 6 5/16 3 1/8	3.000	16 x 7,5 5/8 x 5/16	0,555 1,224
472H0200-100	-030360	280 11 1/32	200 / 100 7 7/8 3 15/16	3.500	19,5 x 9,5 3/4 x 3/8	0,985 2,172
472H0250-120	-030438	337 13 1/4	250 / 120 9 13/16 4 3/4	4.000	22 x 10,5 7/8 x 7/16	1,32 2,911
472H0300-140	-030506	396 15 9/16	300 / 140 11 13/16 5 1/2	5.000	25 x 12 1 x 1/2	2,1 4,631
472H0400-120	-030674	496 19 1/2	400 / 120 15 3/4 4 3/4	5.500	25 x 12 1 x 1/2	2,14 4,719
472H0500-120	-030742	596 23 7/16	500 / 120 19 11/16 4 3/4	5.500	25 x 12 1 x 1/2	2,36 5,204
472H0600-120	-030810	696 27 3/8	600 / 120 23 5/8 4 3/4	5.500	25 x 12 1 x 1/2	2,565 5,656
472H0800-120	-030988	900 35 7/16	800 / 120 31 1/2 4 3/4	6.000	27 x 13 1 1/16 x 1/2	3,37 7,431
472H1000-120	-031046	1.100 43 5/16	1.000 / 120 39 3/8 4 3/4	6.000	27 x 13 1 1/16 x 1/2	3,83 8,445

SERIES 490 VIRIDIS CAST IRON SCREW CLAMPS WITH WOODEN HANDLE



The VIRIDIS cast iron clamps with a wooden handle from the series 490 are used for compressing and holding multiple workpieces in crafts, industry, and workshops. The steel sliding rail allows for high clamping force to be achieved. The vibration-dampened fixed and sliding arms made of cast iron guarantee efficient and precise work. The series 490, with its round wooden handle, is a classic in the clamp range.

Benefits

- Tensioning force up to 7,500 N
- The pressure plate with integrated spindle locking prevents loosening during vibrations on the workpiece.
- Soft plastic protective caps protect sensitive workpiece surfaces

#	4021176	L ←→		Fower	<u>∓</u>	i
	EAN	mm/inch	mm/inch	N	mm/inch	kg/lb
490-0100-050	-034320	150 5 7/8	100 / 50 3 15/16 1 15/16	1.700	15 x 5 9/16 x 3/16	0,275 0,606
490-0120-065	-037918	190 7 1/2	120 / 65 4 3/4 2 9/16	1.700	22 x 6 7/8 x 1/4	0,54 1,191
490-0120-080	-038076	190 7 1/2	120 / 80 4 3/4 3 1/8	2.700	22 x 6 7/8 x 1/4	0,65 1,433
490-0150-050	-038144	160 6 5/16	150 / 50 5 7/8 1 15/16	1.700	15 x 5 9/16 x 3/16	0,315 0,695
490-0160-080	-038175	230 9 1/16	160 / 80 6 5/16 3 1/8	2.700	22 x 6 7/8 x 1/4	0,68 1,499
490-0200-050	-038212	250 9 13/16	200 / 50 7 7/8 1 15/16	1.700	15 x 5 9/16 x 3/16	0,34 0,750
490-0200-065	-000608	285 11 1/4	200 / 65 7 7/8 2 9/16	1.700	22 x 6 7/8 x 1/4	0 0,000
490-0200-080	-000615	265 10 7/16	200 / 80 7 7/8 3 1/8	2.700	22 x 6 7/8 x 1/4	0,72 1,588
490-0200-100	-000622	290 11 7/16	200 / 100 7 7/8 3 15/16	4.000	30 x 8 1 3/16 x 5/16	1,34 2,955
490-0200-120	-000738	290 11 7/16	200 / 120 7 7/8 4 3/4	4.500	30 x 8 1 3/16 x 5/16	1,515 3,341
490-0250-080	-000776	315 12 3/8	250 / 80 9 13/16 3 1/8	2.700	22 x 6 7/8 x 1/4	0,77 1,698
490-0250-100	-001155	360 14 3/16	250 / 100 9 13/16 3 15/16	4.000	30 x 8 1 3/16 x 5/16	1,475 3,252
490-0250-120	-001162	360 14 3/16	250 / 120 9 13/16 4 3/4	4.500	30 x 8 13/16x5/16	1,625 3,583
490-0300-065	-001186	385 15 3/16	300 / 65 11 13/16 2 9/16	1.700	22 x 6 7/8 x 1/4	0,715 1,577
490-0300-080	-001193	365 14 3/8	300 / 80 11 13/16 3 1/8	2.700	22 x 6 7/8 x 1/4	0,81 1,786
490-0300-100	-001209	410 16 1/8	300 / 100 11 13/16 3 15/16	4.000	30 x 8 1 3/16 x 5/16	1,55 3,418
490-0300-120	-001216	410 16 1/8	300 / 120 11 13/16 4 3/4	4.500	30 x 8 1 3/16 x 5/16	1,8 3,969
490-0300-140	-001223	400 15 3/4	300 / 140 11 13/16 5 1/2	5.000	35 x 9 1 3/8 x 3/8	2,22 4,895
490-0400-080	-001230	465 18 5/16	400 / 80 15 3/4 3 1/8	2.700	22 x 6 7/8 x 1/4	0,9 1,985
490-0400-100	-001247	510 20 1/16	400 / 100 15 3/4 3 15/16	4.000	30 x 8 1 3/16 x 5/16	1,8 3,969
490-0400-120	-001254	510 20 1/16	400 / 120 15 3/4 4 3/4	4.500	30 x 8 1 3/16 x 5/16	1,845 4,068
490-0400-140	-001261	500 19 11/16	400 / 140 15 3/4 5 1/2	5.000	35 x 9 1 3/8 x 3/8	2,48 5,468

#	4021176	L ← —	F	Power	<u> </u>	i
	EAN	mm/inch	mm/inch	N	mm/inch	kg/lb
490-0400-175	-001278	500 19 11/16	400 / 175 15 3/4 6 7/8	5.500	35 x 9 1 3/8 x 3/8	2,74 6,042
490-0500-080	-001339	565 22 1/4	500 / 80 19 11/16 3 1/8	2.700	22 x 6 7/8 x 1/4	0,995 2,194
490-0500-100	-001438	610 24 1/64	500 / 100 19 11/16 3 15/16	4.000	30 x 8 1 3/16 x 5/16	1,885 4,156
490-0500-120	-001445	610 24 1/64	500 / 120 19 11/16 4 3/4	6.000	30 x 8 1 3/16 x 5/16	2,5 5,513
490-0500-140	-001452	600 23 5/8	500 / 140 19 11/16 5 1/2	5.000	35 x 9 1 3/8 x 3/8	2,5 5,513
490-0500-175	-001605	600 23 5/8	500 / 175 19 11/16 6 7/8	5.500	35 x 9 1 3/8 x 3/8	2,945 6,494
490-0600-080	-001827	685 26 15/16	600 / 80 23 5/8 3 1/8	2.700	22 x 6 7/8 x 1/4	0 0,000
490-0600-120	-001957	710 27 15/16	600 / 120 23 5/8 4 3/4	6.000	30 x 8 1 3/16 x 5/16	2,175 4,796
490-0600-140	-002169	700 27 9/16	600 / 140 23 5/8 5 1/2	5.000	35 x 9 1 3/8 x 3/8	0 0,000
490-0600-175	-002244	700 27 9/16	600 / 175 23 5/8 6 7/8	5.500	35 x 9 1 3/8 x 3/8	3,15 6,946
490-0800-120	-002251	910 35 13/16	800 / 120 31 1/2 4 3/4	6.500	30 x 8 1 3/16 x 5/16	2,5 5,513
490-0800-140	-002268	900 35 7/16	800 / 140 31 1/2 5 1/2	5.000	35 x 9 1 3/8 x 3/8	0 0,000
490-0800-175	-002275	900 35 7/16	800 / 175 31 1/2 6 7/8	5.500	35 x 9 1 3/8 x 3/8	0 0,000
490-1000-120	-002282	1.110 43 11/16	1.000 / 120 39 3/8 4 3/4	7.000	30 x 8 1 3/16 x 5/16	2,83 6,240
490-1000-140	-002299	1.100 43 5/16	1.000 / 140 39 3/8 5 1/2	5.000	35 x 9 1 3/8 x 3/8	0 0,000
490-1000-175	-002305	1.100 43 5/16	1.000 / 175 39 3/8 6 7/8	5.500	35 x 9 1 3/8 x 3/8	4,09 9,018
490-1250-120	-002404	1.340 52 3/4	1.250 / 120 49 3/16 4 3/4	7.500	30 x 8 1 3/16 x 5/16	3,25 7,166
490-1500-120	-002572	1.590 62 5/8	1.500 / 120 59 1/16 4 3/4	7.500	30 x 8 1 3/16 x 5/16	3,5 7,718

SERIES 490P VIRIDIS CAST IRON CLAMPS WITH 2K COMFORT GRIP



The VIRIDIS ductile iron clamps with 2K comfort grip from the 490P series are used for compressing and holding multiple workpieces in craft, industry, and workshop. The steel sliding rail allows for a high clamping force to be achieved. The vibration-dampening fixed and sliding arms made of ductile iron guarantee efficient and precise work. The 490P series is equipped with an ergonomically contoured 2-component grip that provides ideal grip and ensures high torque transmission.

Benefits

- Tensile strength up to 7,000 N
- The pressure plate with integrated spindle locking prevents loosening during vibrations on the workpiece.

• Soft plastic protective caps protect sensitive workpiece surfaces

#	4021176	L ← →		Fower	<u> </u>	
	EAN	mm/inch	mm/inch	N	mm/inch	kg/lb
490P0100-050	-777783	150 5 7/8	100 / 50 3 15/16 1 15/16	1.700	15 x 5 9/16 x 3/16	0,57 1,257
490P0150-050	-777806	160 6 5/16	150 / 50 5 7/8 1 15/16	1.700	15 x 5 9/16 x 3/16	0,57 1,257
490P0200-050	-777813	250 9 13/16	200 / 50 7 7/8 1 15/16	1.700	15 x 5 9/16 x 3/16	0,57 1,257
490P0120-065 NEW	-779015	190 7 1/2	120 / 65 4 3/4 2 9/16	1.700	22 x 6 7/8 x 1/4	0,57 1,257
490P0200-065	-777820	285 11 1/4	200 / 65 7 7/8 2 9/16	1.700	22 x 6 7/8 x 1/4	0,615 1,356
490P0300-065	-777837	385 15 3/16	300 / 65 11 13/16 2 9/16	1.700	22 x 6 7/8 x 1/4	0,57 1,257
490P0160-080 NEW	-779022	230 9 1/16	160 / 80 6 5/16 3 1/8	2.700	22 x 6 7/8 x 1/4	0,7 1,544
490P0200-080	-777851	265 10 7/16	200 / 80 7 7/8 3 1/8	2.700	22 x 6 7/8 x 1/4	0,57 1,257
490P0250-080	-777868	315 12 3/8	250 / 80 9 13/16 3 1/8	2.700	22 x 6 7/8 x 1/4	0,57 1,257
490P0300-080	-777875	365 14 3/8	300 / 80 11 13/16 3 1/8	2.700	22 x 6 7/8 x 1/4	0,57 1,257
490P0400-080	-777882	465 18 5/16	400 / 80 15 3/4 3 1/8	2.700	22 x 6 7/8 x 1/4	0,57 1,257
490P0200-100 NEW	-779893	290 11 7/16	200 / 100 7 7/8 3 15/16	4.000	30 x 8 1 3/16 x 5/16	1,36 2,999
490P0250-100	-777899	360 14 3/16	250 / 100 9 13/16 3 15/16	4.000	30 x 8 1 3/16 x 5/16	0,57 1,257
490P0300-100	-777905	410 16 1/8	300 / 100 11 13/16 3 15/16	4.000	30 x 8 1 3/16 x 5/16	0,57 1,257
490P0400-100	-777912	510 20 1/16	400 / 100 15 3/4 3 15/16	4.000	30 x 8 1 3/16 x 5/16	0,57 1,257
490P0500-100	-777936	610 24 1/64	500 / 100 19 11/16 3 15/16	4.000	30 x 8 1 3/16 x 5/16	0,57 1,257
490P0250-120 NEW	-780004	360 14 3/16	250 / 120 9 13/16 4 3/4	4.500	30 x 8 1 3/16 x 5/16	1,615 3,561
490P0300-120 NEW	-780011	410 16 1/8	300 / 120 11 13/16 4 3/4	4.500	30 x 8 1 3/16 x 5/16	1,7 3,749

#	4021176	L ←—→		Power	<u> </u>	
	EAN	mm/inch	mm/inch	N	mm/inch	kg/lb
490P0400-120 NEW	-780028	510 20 1/16	400 / 120 15 3/4 4 3/4	4.500	30 x 8 1 3/16 x 5/16	1,87 4,123
490P0500-120	-777943	610 24 1/64	500 / 120 19 11/16 4 3/4	6.000	30 x 8 1 3/16 x 5/16	0,57 1,257
490P0600-120 NEW	-780035	710 27 15/16	600 / 120 23 5/8 4 3/4	6.000	30 x 8 1 3/16 x 5/16	2,19 4,829
490P0800-120 NEW	-780059	910 35 13/16	800 / 120 31 1/2 4 3/4	6.500	30 x 8 1 3/16 x 5/16	2,525 5,568
490P1000-120	-779473	1.110 43 11/16	1.000 / 120 39 3/8 4 3/4	7.000	30 x 8 1 3/16 x 5/16	2,875 6,339
490P0300-140 NEW	-780073	400 15 3/4	300 / 140 11 13/16 5 1/2	5.000	35 x 9 1 3/8 x 3/8	2,24 4,939
490P0400-140	-779503	500 19 11/16	400 / 140 15 3/4 5 1/2	5.000	35 x 9 1 3/8 x 3/8	0,57 1,257
490P0500-140	-779459	600 23 5/8	500 / 140 19 11/16 5 1/2	5.000	35 x 9 1 3/8 x 3/8	0,57 1,257
490P0600-140	-779510	700 27 9/16	600 / 140 23 5/8 5 1/2	5.000	35 x 9 1 3/8 x 3/8	0,57 1,257
490P0800-140	-790003	900 35 7/16	800 / 140 31 1/2 5 1/2	5.000	35 x 9 1 3/8 x 3/8	3,56 7,850
490P1000-140	-790010	1.100 43 5/16	1.000 / 140 39 3/8 5 1/2	5.000	35 x 9 1 3/8 x 3/8	3,56 7,850
490P0400-175 NEW	-780080	500 19 11/16	400 / 175 15 3/4 6 7/8	5.500	35 x 9 1 3/8 x 3/8	2,725 6,009
490P0500-175	-790027	600 23 5/8	500 / 175 19 11/16 6 7/8	5.500	35 x 9 1 3/8 x 3/8	3,56 7,850
490P0600-175 NEW	-780097	700 27 9/16	600 / 175 23 5/8 6 7/8	5.500	35 x 9 1 3/8 x 3/8	3,155 6,957
490P0800-175 NEW	-780066	900 35 7/16	800 / 175 31 1/2 6 7/8	5.500	35 x 9 1 3/8 x 3/8	3,375 7,442
490P1000-175	-790034	1.100 43 5/16	1.000 / 175 39 3/8 6 7/8	5.500	35 x 9 1 3/8 x 3/8	3,56 7,850

SERIES 490K VIRIDIS TEMPERED CAST IRON SCREW CLAMPS WITH STEEL KNOB HANDLE



The VIRIDIS ductile iron clamps with steel T-handle of the 490K series are used for compressing and holding multiple workpieces in craft, industry, and workshops. A high clamping force can be achieved through the steel sliding rail. The vibration-dampened fixed and sliding arms made of ductile iron ensure efficient and precise working. The 490K series features a T-handle that allows particularly tight tightening.

Benefits

- Tensile strength up to 7,000 N
- The pressure plate with integrated spindle locking prevents loosening during vibrations on the workpiece.
- Through the labeling on the jaws, one can quickly keep an eye on the dimensions.

#	 4021176	L ← →	Ħ	Power	<u>†</u>	i
	EAN	mm/inch	mm/inch	N	mm/inch	kg/lb
490K0160-080	-002657	230 9 1/16	160 / 80 6 5/16 3 1/8	2.700	22 x 6 7/8 x 1/4	0,67 1,477
490K0200-100	-002671	290 11 7/16	200 / 100 7 7/8 3 15/16	4.000	30 x 8 1 3/16 x 5/16	0,8 1,764
490K0250-120	-002688	360 14 3/16	250 / 120 9 13/16 4 3/4	4.500	30 x 8 1 3/16 x 5/16	1,61 3,550
490K0300-120	-002695	410 16 1/8	300 / 120 11 13/16 4 3/4	4.500	30 x 8 1 3/16 x 5/16	1,7 3,749
490K0400-120	-002718	510 20 1/16	400 / 120 15 3/4 4 3/4	4.500	30 x 8 1 3/16 x 5/16	1,82 4,013
490K0500-120	-002732	610 24 1/64	500 / 120 19 11/16 4 3/4	6.000	30 x 8 1 3/16 x 5/16	3 6,615
490K0600-120	-002749	710 27 15/16	600 / 120 23 5/8 4 3/4	6.000	30 x 8 1 3/16 x 5/16	2,175 4,796
490K0800-120	-002756	910 35 13/16	800 / 120 31 1/2 4 3/4	6.500	30 x 8 1 3/16 x 5/16	3 6,615
490K1000-120	-002770	1.110 43 11/16	1.000 / 120 39 3/8 4 3/4	7.000	30 x 8 1 3/16 x 5/16	0 0,000
490K0300-140	-002701	400 15 3/4	300 / 140 11 13/16 5 1/2	5.000	35 x 9 1 3/8 x 3/8	2,235 4,928
490K0400-175	-002725	500 19 11/16	400 / 175 15 3/4 6 7/8	5.500	35 x 9 1 3/8 x 3/8	0 0,000

SERIES 493 VIRIDIS HEAVY DUTY CAST IRON SCREW CLAMPS WITH WOODEN HANDLE



The Tempered Cast Iron Clamp VIRIDIS with Wooden Handle of Series 493 is used for compressing and holding multiple workpieces in crafts, industry, and workshops. The steel sliding rail allows for high clamping force to be achieved. The low-vibration fixed and sliding arms made of tempered cast iron guarantee efficient and precise work. Series 493, with its round wooden handle, is a classic in the clamp assortment.

Benefits

- Tensioning force up to 7,500 N
- The pressure plate with integrated spindle locking prevents loosening during vibrations on the workpiece.
- Soft plastic protective caps protect sensitive workpiece surfaces

#	 4021176	L ← →	Ħ	Power	<u>∓</u>	i
	EAN	mm/inch	mm/inch	N	mm/inch	kg/lb
493-0400-120	-003562	500 19 11/16	400 / 120 15 3/4 4 3/4	7.500	35 x 11 1 3/8 x 7/16	2,62 5,777
493-0500-120	-004262	600 23 5/8	500 / 120 19 11/16 4 3/4	7.500	35 x 11 1 3/8 x 7/16	0 0,000
493-0600-120	-004279	700 27 9/16	600 / 120 23 5/8 4 3/4	7.500	35 x 11 1 3/8 x 7/16	3,145 6,935
493-0800-120	-004286	900 35 7/16	800 / 120 31 1/2 4 3/4	7.500	35 x 11 1 3/8 x 7/16	0 0,000
493-1000-120	-004293	1.100 43 5/16	1.000 / 120 39 3/8 4 3/4	7.500	35 x 11 1 3/8 x 7/16	4,18 9,217
493-1250-120	-004309	1.350 53 1/8	1.250 / 120 49 3/16 4 3/4	7.500	35 x 11 1 3/8 x 7/16	4,82 10,628
493-1500-120	-004316	1.600 62 1	1.500 / 120 59 1/16 4 3/4	7.500	35 x 11 1 3/8 x 7/16	6 13,230
493-1800-120	-004323	1.900 74 13/16	1.800 / 120 70 7/8 4 3/4	7.500	35 x 11 1 3/8 x 7/16	5 11,025
493-2000-120	-004330	2.100 82 11/16	2.000 / 120 78 3/4 4 3/4	7.500	35 x 11 1 3/8 x 7/16	6,8 14,994
493-2200-120	-004347	2.300 90 9/16	2.200 / 120 86 5/8 4 3/4	7.500	35 x 11 1 3/8 x 7/16	0 0,000
493-2500-120	-004354	2.600 102 3/8	2.500 / 120 98 7/16 4 3/4	7.500	35 x 11 1 3/8 x 7/16	8,15 17,971
493-3000-120	-004361	3.100 122 1/16	3.000 / 120 118 1/8 4 3/4	7.500	35 x 11 1 3/8 x 7/16	5 11,025

SERIES 493P HEAVY DUCTILE IRON SCREW CLAMPS VIRIDIS WITH 2K COMFORT GRIP



The VIRIDIS ductile iron screw clamps with a 2K comfort grip from series 493P are used to compress and hold multiple workpieces in craftsmanship, industry, and workshops. The steel sliding rail allows for achieving high clamping force. The vibration-reducing fixed and sliding arms made of ductile iron ensure efficient and precise work. The 493P series is equipped with an ergonomically arched 2-component grip that provides ideal grip and ensures high torque transmission.

Benefits

- Tensioning force up to 7,500 N
- The pressure plate with integrated spindle locking prevents loosening during vibrations on the workpiece.
- Soft plastic protective caps protect sensitive workpiece surfaces

#	4 021176	L ←—→	Ħ	Power	<u>∓</u>	
	EAN	mm/inch	mm/inch	N	mm/inch	kg/lb
493P0400-120 NEW	-790041	500 19 11/16	400 / 120 15 3/4 4 3/4	7.500	35 x 11 1 3/8 x 7/16	2,6 5,733
493P0500-120 NEW	-780103	600 23 5/8	500 / 120 19 11/16 4 3/4	7.500	35 x 11 1 3/8 x 7/16	2,86 6,306
493P0600-120 NEW	-780110	700 27 9/16	600 / 120 23 5/8 4 3/4	7.500	35 x 11 1 3/8 x 7/16	3,115 6,869
493P0800-120	-779527	900 35 7/16	800 / 120 31 1/2 4 3/4	7.500	35 x 11 1 3/8 x 7/16	0,57 1,257
493P1000-120	-779534	1.100 43 5/16	1.000 / 120 39 3/8 4 3/4	7.500	35 x 11 1 3/8 x 7/16	0,57 1,257
493P1250-120 NEW	-780127	1.350 53 1/8	1.250 / 120 49 3/16 4 3/4	7.500	35 x 11 1 3/8 x 7/16	4,85 10,694
493P1500-120 NEW	-780134	1.600 62 1	1.500 / 120 59 1/16 4 3/4	7.500	35 x 11 1 3/8 x 7/16	5,5 12,128
493P1800-120	-779541	1.900 74 13/16	1.800 / 120 70 7/8 4 3/4	7.500	35 x 11 1 3/8 x 7/16	0,57 1,257
493P2000-120	-779558	2.100 82 11/16	2.000 / 120 78 3/4 4 3/4	7.500	35 x 11 1 3/8 x 7/16	7 15,435
493P2200-120	-779565	2.300 90 9/16	2.200 / 120 86 5/8 4 3/4	7.500	35 x 11 1 3/8 x 7/16	0,57 1,257
493P2500-120	-779480	2.600 102 3/8	2.500 / 120 98 7/16 4 3/4	7.500	35 x 11 1 3/8 x 7/16	0,57 1,257
493P3000-120	-779572	3.100 122 1/16	3.000 / 120 118 1/8 4 3/4	7.500	35 x 11 1 3/8 x 7/16	0,57 1,257

SERIES 493K HEAVY DUCTILE IRON SCREW CLAMPS VIRIDIS WITH STEEL TOGGLE HANDLE



The ductile cast iron screw clamps VIRIDIS with a steel knob handle from series 493K are used for compressing and holding multiple workpieces in crafts, industry, and workshops. The steel sliding rail allows for achieving high clamping force. The low-vibration fixed and sliding arms made of ductile cast iron ensure efficient and precise work. The series 493K features a knob handle that allows for particularly tight fastening.

Benefits

- Tensioning force up to 7,500 N
- The pressure plate with integrated spindle locking prevents loosening during vibrations on the workpiece.
- By labeling the brackets, dimensions can be quickly in view.

#	4021176	L ←—→	Ħ	Power	<u></u>	
	EAN	mm/inch	mm/inch	N	mm/inch	kg/lb
493K0400-120	-004378	500 19 11/16	400 / 120 15 3/4 4 3/4	7.500	35 x 11 1 3/8 x 7/16	2,605 5,744
493K0500-120	-004385	600 23 5/8	500 / 120 19 11/16 4 3/4	7.500	35 x 11 1 3/8 x 7/16	0 0,000
493K0600-120	-004392	700 27 9/16	600 / 120 23 5/8 4 3/4	7.500	35 x 11 1 3/8 x 7/16	3,18 7,012
493K0800-120	-004408	900 35 7/16	800 / 120 31 1/2 4 3/4	7.500	35 x 11 1 3/8 x 7/16	3,745 8,258
493K1000-120	-004415	1.100 43 5/16	1.000 / 120 39 3/8 4 3/4	7.500	35 x 11 1 3/8 x 7/16	4,316 9,517
493K1250-120	-004460	1.350 53 1/8	1.250 / 120 49 3/16 4 3/4	7.500	35 x 11 1 3/8 x 7/16	4,88 10,760
493K1500-120	-004477	1.600 62 1	1.500 / 120 59 1/16 4 3/4	7.500	35 x 11 1 3/8 x 7/16	5,5 12,128
493K2000-120	-004484	2.100 82 11/16	2.000 / 120 78 3/4 4 3/4	7.500	35 x 11 1 3/8 x 7/16	6,82 15,038
493K2500-120	-004491	2.600 102 3/8	2.500 / 120 98 7/16 4 3/4	7.500	35 x 11 1 3/8 x 7/16	0 0,000
493K3000-120	-004507	3.100 122 1/16	3.000 / 120 118 1/8 4 3/4	7.500	35 x 11 1 3/8 x 7/16	9,225 20,341

j

SERIES 505/509 DEEP-THROAT DUCTILE IRON CLAMPS WITH WOODEN HANDLE



The deep-throat cast-iron clamps with wooden handles from series 505 to 509 are used to compress and hold large workpieces in construction and industry. The steel gliding rail allows for a high clamping force to be achieved. Series 505 to 509, with their round wooden handle, are classics of the clamp assortment.

Benefits

- Tensile strength up to 7,000 N
- Smooth-running trapezoidal spindles ensure an even higher power transmission.

#	4 021176	L ←	Fi.	Power	<u>∓</u>	i
	EAN	mm/inch	mm/inch	N	mm/inch	kg/lb
505-040	-564995	530 20 7/8	400 / 200 15 3/4 7 7/8	5.000	35 x 11 1 3/8 x 7/16	3,256 7,179
507-100	-566067	1.170 46 1/16	1.000 / 300 39 3/8 11 13/16	6.000	45 x 12 1 3/4 x 1/2	9,57 21,102
507-080	-565985	970 38 3/16	800 / 300 31 1/2 11 13/16	6.000	45 x 12 1 3/4 x 1/2	8,5 18,743
507-060	-565800	770 30 5/16	600 / 300 23 5/8 11 13/16	6.000	45 x 12 1 3/4 x 1/2	7,94 17,508
507-040	-565725	570 22 7/16	400 / 300 15 3/4 11 13/16	6.000	45 x 12 1 3/4 x 1/2	7 15,435
506-100	-565640	1.170 46 1/16	1.000 / 250 39 3/8 9 13/16	7.000	45 x 12 1 3/4 x 1/2	6,5 14,333
506-080	-565565	970 38 3/16	800 / 250 31 1/2 9 13/16	7.000	45 x 12 1 3/4 x 1/2	4,2 9,261
506-060	-565497	770 30 5/16	600 / 250 23 5/8 9 13/16	7.000	45 x 12 1 3/4 x 1/2	7,4 16,317
506-040	-565312	570 22 7/16	400 / 250 15 3/4 9 13/16	7.000	45 x 12 1 3/4 x 1/2	5 11,025
505-100	-565237	1.130 44 1/2	1.000 / 200 39 3/8 7 7/8	5.000	35 x 11 1 3/8 x 7/16	4,86 10,716
505-080	-565152	930 36 5/8	800 / 200 31 1/2 7 7/8	5.000	35 x 11 1 3/8 x 7/16	4,35 9,592
505-060	-142506	730 28 3/4	600 / 200 23 5/8 7 7/8	5.000	35 x 11 1 3/8 x 7/16	3,855 8,500

SERIES 505P/507P LOW-PRESSURE DIE-CAST CLAMPS WITH 2K COMFORT GRIP



The deep-throat cast iron clamps with 2K comfort grip from series 505P to 509P are used for compressing and holding large workpieces in construction and industry. The steel sliding rail allows for a high clamping force to be achieved. Series 505P to 509P are equipped with a 2-component grip that enables safe and stable work.

Benefits

- Tensile strength up to 7,000 N
- Smooth-running trapezoidal spindles ensure an even higher power transmission.

#	4021176	L ←—→	Ħ.	Power	<u>∓</u>	i
	EAN	mm/inch	mm/inch	N	mm/inch	kg/lb
505P040	-779725	530 20 7/8	400 / 200 15 3/4 7 7/8	5.000	35 x 11 1 3/8 x 7/16	0,235 0,518
507P100	-779947	1.170 46 1/16	1.000 / 300 39 3/8 11 13/16	6.000	45 x 12 1 3/4 x 1/2	0,235 0,518
507P080	-779930	970 38 3/16	800 / 300 31 1/2 11 13/16	6.000	45 x 12 1 3/4 x 1/2	0,235 0,518
507P060	-779923	770 30 5/16	600 / 300 23 5/8 11 13/16	6.000	45 x 12 1 3/4 x 1/2	0,235 0,518
507P040	-779916	570 22 7/16	400 / 300 15 3/4 11 13/16	6.000	45 x 12 1 3/4 x 1/2	0,235 0,518
506P100	-779909	1.170 46 1/16	1.000 / 250 39 3/8 9 13/16	7.000	45 x 12 1 3/4 x 1/2	0,235 0,518
506P080	-779770	970 38 3/16	800 / 250 31 1/2 9 13/16	7.000	45 x 12 1 3/4 x 1/2	0,235 0,518
506P060	-779763	770 30 5/16	600 / 250 23 5/8 9 13/16	7.000	45 x 12 1 3/4 x 1/2	0,235 0,518
506P040	-779787	570 22 7/16	400 / 250 15 3/4 9 13/16	7.000	45 x 12 1 3/4 x 1/2	0,235 0,518
505P100	-779756	1.130 44 1/2	1.000 / 200 39 3/8 7 7/8	5.000	35 x 11 1 3/8 x 7/16	0,235 0,518
505P080	-779749	930 36 5/8	800 / 200 31 1/2 7 7/8	5.000	35 x 11 1 3/8 x 7/16	0,235 0,518
505P060	-779732	730 28 3/4	600 / 200 23 5/8 7 7/8	5.000	35 x 11 1 3/8 x 7/16	3,715 8,192

SERIES 505K/509K DEEP CLAMP CAST IRON SCREW CLAMPS WITH STEEL KNURLED HANDLE



The deep clamping cast iron screw clamps with steel toggle grips from series 505K to 509K are used for compressing and holding large work-pieces in construction and industry. The steel glide rail allows for high clamping force to be achieved. The series 505K to 509K features a toggle grip that enables particularly tight fastening.

Benefits

- Tensile strength up to 7,000 N
- Smooth-running trapezoidal spindles ensure an even higher power transmission.

#	 	L ← →	Ħ.	Fower	<u>∓</u>	i
	EAN	mm/inch	mm/inch	N	mm/inch	kg/lb
505K040	-772482	530 20 7/8	400 / 200 15 3/4 7 7/8	5.000	35 x 11 1 3/8 x 7/16	3,85 8,489
507K100	-773540	1.170 46 1/16	1.000 / 300 39 3/8 11 13/16	6.000	45 x 12 1 3/4 x 1/2	3,58 7,894
507K080	-773472	970 38 3/16	800 / 300 31 1/2 11 13/16	6.000	45 x 12 1 3/4 x 1/2	8,765 19,327
507K060	-773397	770 30 5/16	600 / 300 23 5/8 11 13/16	6.000	45 x 12 1 3/4 x 1/2	7,91 17,442
507K040	-773212	570 22 7/16	400 / 300 15 3/4 11 13/16	6.000	45 x 12 1 3/4 x 1/2	7 15,435
506K100	-773137	1.170 46 1/16	1.000 / 250 39 3/8 9 13/16	7.000	45 x 12 1 3/4 x 1/2	9,3 20,507
506K080	-773052	970 38 3/16	800 / 250 31 1/2 9 13/16	7.000	45 x 12 1 3/4 x 1/2	8,085 17,827
506K060	-772970	770 30 5/16	600 / 250 23 5/8 9 13/16	7.000	45 x 12 1 3/4 x 1/2	7,45 16,427
506K040	-772895	570 22 7/16	400 / 250 15 3/4 9 13/16	7.000	45 x 12 1 3/4 x 1/2	6,4 14,112
505K100	-772710	1.130 44 1/2	1.000 / 200 39 3/8 7 7/8	5.000	35 x 11 1 3/8 x 7/16	5,515 12,161
505K080	-772635	930 36 5/8	800 / 200 31 1/2 7 7/8	5.000	35 x 11 1 3/8 x 7/16	0 0,000
505K060	-772550	730 28 3/4	600 / 200 23 5/8 7 7/8	5.000	35 x 11 1 3/8 x 7/16	3,815 8,412

SERIES 440 POLE SCREW CLAMP FOR GROUNDING WITH GUIDE RING



The pole screw clamps of series 440 are used for grounding during welding work. The solid and application-oriented design allows for safe clamping. The series 440 has a guide ring for ground cables.

Benefits

- Tensile strength up to 5,000 N
- Through the labeling on the frames, you can quickly keep track of dimensions.

Technical attributes

#	4021176	L L	∏	Power	[4→] <u>†</u>	4	
	EAN	mm/inch	mm/inch	N	mm/inch	Α	kg/lb
440-150	-607647	235 9 1/4	150 / 60 5 7/8 2 3/8	5.000	30 x 8 1 3/16 x 5/16	400 A	0,95 2,095
440-156	-032289	235 9 1/4	150 / 60 5 7/8 2 3/8	5.000	30 x 8 1 3/16 x 5/16	600 A	0,9595 2,116
440-158	-803339	235 9 1/4	150 / 80 5 7/8 3 1/8	5.000	30 x 8 1 3/16 x 5/16	400 A	0,97 2,139

SERIES 441 POLE SCREW CLAMP FOR GROUNDING WITH MOUNTING HOLE

The pole screw clamps of series 441 are used for grounding during welding work. The solid and application-oriented design allows for secure clamping. Series 441 features a mounting hole for ground cables.



Benefits

- Tensile strength up to 5,000 N
- Through the labeling on the frames, you can quickly keep track of dimensions.

#	 	L ←—→	Ħ.	Power	<u>∓</u>	4	i
	EAN	mm/inch	mm/inch	N	mm/inch	Α	kg/lb
441-580	-558062	230 9 1/16	150 / 80 5 7/8 3 1/8	2.700	22 x 6 7/8 x 1/4	250 A	0,705 1,555
441-600	-776367	290 11 7/16	200 / 100 7 7/8 3 15/16	5.000	30 x 8 1 3/16 x 5/16	600 A	1,4 3,087

SERIES 365 C-CLAMPS MADE OF SOLID STEEL WITH KNOB HANDLE



The C-clamps made of solid steel from series 365 are used for spring elastic clamping of multiple workpieces in craft, industry, and workshop. The clamp provides an exceptionally high clamping force through its trapezoidal spindle. Series 365 features a star grip that allows for particularly tight tightening.

Benefits

- Tensile strength up to 40,000 N
- Smooth-running trapezoidal spindles provide an even higher force transmission.

Technical attributes

#	4021176l	←	‡	Power	i
	EAN	mm/inch	mm/inch	N	kg/lb
365-050	-915742	120 4 3/4	50 / 50 1 15/16 1 15/16	10.000	0,425 0,937
365-075	-915759	150 5 7/8	75 / 50 2 15/16 1 15/16	13.000	0,625 1,378
365-100	-915766	186 7 5/16	100 / 60 3 15/16 2 3/8	15.000	0,965 2,128
365-150	-915773	247 9 3/4	150 / 75 5 7/8 2 15/16	18.000	1,445 3,186
365-200	-915780	308 12 1/8	200 / 90 7 7/8 3 9/16	22.000	2,265 4,994
365-250	-915797	384 15 1/8	250 / 100 9 13/16 3 15/16	40.000	4,38 9,658

SERIES 420 C-CLAMPS WITH METRIC FINE THREAD



The C-clamps with metric fine thread of the series 420 are used for compressing and holding multiple workpieces in crafts, industry, and workshops. The clamp provides precise and controlled force application through the spindle with metric thread. The series 420 features a knurled handle that allows for particularly tight tightening.

Benefits

- Tensile strength up to 4,000 N
- Smooth-running spindles ensure even higher torque transmission.

#	4021176	L →	—	Power	i
	EAN	mm/inch	mm/inch	N	kg/lb
420-028	-604677	85 3 3/8	28 / 25 1 1/8 1	1.000	0,18 0,397
420-053	-604752	125 4 15/16	53 / 38 2 1/16 1 1/2	1.500	0,345 0,761
420-078	-604837	155 6 1/8	78 / 50 3 1/16 1 15/16	1.500	0,565 1,246
420-130	-605094	230 9 1/16	130 / 70 5 1/8 2 3/4	2.500	1,405 3,098
420-155	-667122	260 10 1/4	155 / 76 6 1/8 2 1	4.000	2,075 4,575
420-206	-605179	330 12 1	206 / 86 8 1/8 3 3/8	4.000	3,13 6,902

SERIES 430 PARALLEL CLAMPS



The parallel clamps of the series 430 are used in crafts, industry, and workshops for the precise, parallel adjustment of the clamping surfaces thanks to their double spindle guidance.

Benefits

- Tensile force up to 4,000 N
- Smooth-running spindles ensure an even higher power transmission.

Technical attributes

#	4021176	L	F	i
	EAN	mm/inch	mm/inch	kg/lb
430-028	-606084	50 1 15/16	28 / 16 1 1/8 5/8	0,14 0,309
430-040	-606169	60 2 3/8	40 / 25 1 9/16 1	0,185 0,408
430-055	-606244	75 2 15/16	55 / 35 2 3/16 1 3/8	0,23 0,507
430-070	-606329	100 3 15/16	70 / 50 2 3/4 1 15/16	0,48 1,058
430-105	-606404	150 5 7/8	105 / 70 4 1/8 2 3/4	0,94 2,073

SERIES 431 QUICK-CHANGE COLLETS KANT-TWIST



The KANT-TWIST quick-release clamps from series 431 are used for internal and external clamping of various Profilees in crafts, industry, and workshops. Series 431 impresses with its multifunctionality. It combines the features of clamps, pliers, and vices in a single tool.

Benefits

- Tensile force up to 9700 N
- Movable Jaws with Prism Cut

#	4021176	<u> </u>	[1]		Power	i
	EAN	mm/inch	mm/inch	mm/inch	N	kg/lb
431-001	-606572	25 1	15 - 17 9/16-11/16	8 5/16	1.700	0,4 0,882
431-002	-606657	50 1 15/16	35 - 40 1 3/8-1 9/16	12 1/2	3.900	0,18 0,397
431-003	-606732	75 2 15/16	35- 50 1 3/8-1 15/16	16 5/8	7.300	0,525 1,158
431-004	-606817	110 4 5/16	60 - 75 2 3/8-2 15/16	22 7/8	8.300	0,77 1,698
431-006	-606992	150 5 7/8	60 - 85 2 3/8-3 3/8	22 7/8	9.700	1,375 3,032
431-009	-607074	240 9 7/16	80 - 135 3 1/8-5 5/16	32 1 1/4	9.700	3,28 7,232
431-010	-607159	255 10 1/32	150 - 190 5 7/8-7 1/2	32 1 1/4	9.700	4,85 10,694
431-012	-607234	300 11 13/16	120 - 170 4 3/4-6 11/16	32 1 1/4	9.700	6,49 14,310

SERIES 432 PARALLEL CLAMPS



The parallel clamps of series 432 are used for universal internal and external clamping of various workpiece forms in craft, industry, and workshops. The series 432 features four different surfaces for use with different workpiece forms, ensuring universal application.

Benefits

- Tensile force up to 8,500 N
- Smooth-running trapezoidal spindles ensure an even higher power

Technical attributes

#	4021176	1	1:1	Power	i
	EAN	mm/inch	mm/inch	N	kg/lb
432-001	-795252	25 1	15 - 20 9/16-13/16	1.300	0,6 1,323
432-002	-795337	50 1 15/16	33 - 42 1 5/16-1 5/8	3.100	0,26 0,573
432-003	-795412	75 2 15/16	35 - 49 1 3/8-1 15/16	5.000	0,56 1,235
432-004	-795580	110 4 5/16	58 - 78 2 5/16-3 1/16	6.800	0,565 1,246
432-006	-795665	150 5 7/8	110 - 128 4 5/16-5 1/32	8.500	2,08 4,586

SERIES 442 EARTH CLAMPS



The grounding clamps of series 442 guarantee a secure connection to metallic components such as housings, pipes, and mounting systems and serve for the termination of protective conductors. The clamps are mounted in no time and can be used flexibly. A typical application example is their use in welding work.

Benefits

- Versatile use
- · Quality steel sheet

#	4021176	4	i
	EAN	А	kg/lb
442-400	-607807	400 A	0,265 0,584
442-600	-607982	500 A	0,415 0.915



The miter welding pliers of the series 450 are used for accurately clamping workpieces during welding or for assembly work in trades, industry, and workshops. The ductile iron base body has firm, well-machined support surfaces at a clamping angle of 90°.

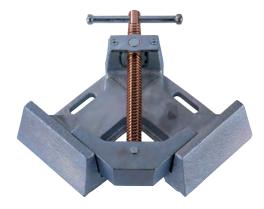
Benefits

- Prisms allow clamping for various workpiece shapes.
- The movable clamp jaw makes the miter welding pliers suitable for different material cross-sections.

Technical attributes

#	4 021176	L ←──→	1	i
	EAN	mm/inch	mm/inch	kg/lb
450-050	-564735	230 9 1/16	50 1 15/16	1,24 2,734
450-100	-564810	320 12 5/8	100 3 15/16	2,78 6,130

SERIES 450-260 METAL ANGLE CLAMP



The metal angle clamp of the series 450 is used for precise angle clamping of workpieces during welding or for assembly work in crafts, industry, and workshops. The ductile cast iron base body features solid, cleanly machined support surfaces at a clamping angle of 90°.

Benefits

• The movable clamp jaw makes the miter welding pliers suitable for different material cross-sections.

#		L ←──→	1	
	EAN	mm/inch	mm/inch	kg/lb
450-260	-564650	250 9 13/16	90 3 9/16	4,16 9,173

SERIES 516 GLUE PLIER CLAMP



The clamps of the 516 series are used to hold multiple workpieces in craft, industry, and workshop. The clamps are equipped with a strong spring and a vulcanized fiber plate coating to ensure powerful and handy holding.

Benefits

- · High quality through stamping from sheet steel
- Coating made of vulcanized fiber protects and insulates the workpiece

Technical attributes

#	 	L	F -	i
	EAN	mm/inch	mm/inch	kg/lb
516-110	-634612	110 4 5/16	40 / 37 1 9/16 1 7/16	0,06 0,132
516-155	-634797	155 6 1/8	50 / 56 1 15/16 2 3/16	0,16 0,353

SERIES 516-200 GLUE PLIER CLAMP



The glue plier clamps of series 516 are used to hold multiple workpieces in craft, industry, and workshop. The glue plier clamps are equipped with a strong spring and high-quality plastic to ensure powerful and handy holding.

Benefits

- By adjusting the grid settings, parts of different sizes can be held precisely.
- Suitable for universal use in holding workpieces.

#	 	L	Ħ.	i
	EAN	mm/inch	mm/inch	kg/lb
516-200	-002077	180 7 1/16	50 / 46 1 15/16 1 13/16	0,155 0,342
516-300	-002084	240 9 7/16	75 / 85 2 15/16 3 3/8	0,26 0,573

SERIES 511 WOOD CLAMPING VICES



The wooden clamps of the series 511 are used for pressing and clamping multiple workpieces. The clamps are specially designed for wooden parts and consist of a solid upper part, lower part, and eccentric made of beech wood, as well as a steel rail. This guarantees ideal handling thanks to the infinitely variable adjustment of the clamping pressure through the eccentric lever. The non-slip cork pad prevents pressure points or other damage.

Benefits

- · Infinitely adjustable pressure adjustment via eccentric lever
- · Non-slip design, also on curves and edges
- Lightweight

Technical attributes

#		L ← —→	Ħ	<u>∓</u>	i
	EAN	mm/inch	mm/inch	mm/inch	kg/lb
511-200	-917685	200 7 7/8	200 / 110 7 7/8 4 5/16	20 x 5 13/16 x 3/16	0,485 1,069
511-300	-917692	300 11 13/16	300 / 110 11 13/16 4 5/16	20 x 5 13/16 x 3/16	0,505 1,114
511-400	-013288	400 15 3/4	400 / 110 15 3/4 4 5/16	20 x 5 13/16 x 3/16	0,635 1,400
511-600	-013295	600 23 5/8	600 / 110 23 5/8 4 5/16	20 x 5 13/16 x 3/16	0,815 1,797
511-800	-013301	800 31 1/2	800 / 110 31 1/2 4 5/16	20 x 5 13/16 x 3/16	0,905 1,996

SERIES 517 ONE-HAND CLAMPS



The one-handed clamp of series 517 is used for compressing and holding multiple workpieces. The one-handed clamp is primarily used in the wood sector. The one-handed operation ensures maximum flexibility. The protective caps guarantee a gentle handling of the workpiece. Thanks to the 2-component plastic handle, ergonomic working is enabled.

Benefits

- One-handed operation for tightening and loosening using two separate controls.
- · Ergonomically shaped 2-component plastic handle

#		Ħ		i
	EAN	mm/inch	mm/inch	kg/lb
517-150K	-039905	150 / 85 5 7/8 3 3/8	19 x 6 3/4 x 1/4	0,655 1,444
517-300K	-039929	300 / 85 11 13/16 3 3/8	19 x 6 3/4 x 1/4	0,78 1,720
517-450K	-039943	450 / 85 17 11/16 3 3/8	19 x 6 3/4 x 1/4	0,89 1,962
517-600K	-039967	600 / 85 23 5/8 3 3/8	19 x 6 3/4 x 1/4	1,025 2,260

SERIES 520 ALL-STEEL SCREW CLAMPS



Technical attributes

The all-steel vises of series 520 are used for clamping workpieces in crafts, industry, and workshops. The lightweight design of series 520 is ideal for universally clamping simple workpieces, and the material provides the necessary durability and stability of the vise.

Benefits

- · High-quality material and simple actuation
- · Easy execution for flexible work in workshops and crafts

#	4021176			$\overline{}$	1	100			i
	EAN	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	kg/lb
520-080	-609474	95	250	93	100	80	20	50	3,965
		3 3/4	9 13/16	3 11/16	3 15/16	3 1/8	13/16	1 15/16	8,743
520-100	-609542	100	310	112	120	100	22	64	7,24
		3 15/16	12 3/16	4 7/16	4 3/4	3 15/16	7/8	2 1/2	15,964
520-125	-609627	130	377	137	140	125	25	75	10,265
		5 1/8	14 13/16	5 3/8	5 1/2	4 15/16	1	2 15/16	22,634
520-150	-609702	160	435	165	155	150	30	95	16,9
		6 5/16	17 1/8	6 1/2	6 1/8	5 7/8	1 3/16	3 3/4	37,265
520-175	-609887	175	435	165	155	175	30	95	17
		6 7/8	17 1/8	6 1/2	6 1/8	6 7/8	1 3/16	3 3/4	37,485
520-100-R	-997090	100	310	112	120	100	22	64	7
		3 15/16	12 3/16	4 7/16	4 3/4	3 15/16	7/8	2 1/2	15,435
520-125-R	-455668	130	377	137	140	125	25	75	7
		5 1/8	14 13/16	5 3/8	5 1/2	4 15/16	1	2 15/16	15,435
520-150-R	-455880	160	435	165	155	150	30	95	7
		6 5/16	17 1/8	6 1/2	6 1/8	5 7/8	1 3/16	3 3/4	15,435
520-175-R	-035808	175	435	165	155	175	30	95	7
		6 7/8	17 1/8	6 1/2	6 1/8	6 7/8	1 3/16	3 3/4	15,435
520-100-G	-997083	100	310	112	120	100	22	64	6,9
		3 15/16	12 3/16	4 7/16	4 3/4	3 15/16	7/8	2 1/2	15,215
520-125-G	-759865	130	377	137	140	125	25	75	7
		5 1/8	14 13/16	5 3/8	5 1/2	4 15/16	1	2 15/16	15,435
520-150-G	-056179	160	435	165	155	150	30	95	15
		6 5/16	17 1/8	6 1/2	6 1/8	5 7/8	1 3/16	3 3/4	33,075
520-175-G	-759872	175	435	165	155	175	30	95	17,18
		6 7/8	17 1/8	6 1/2	6 1/8	6 7/8	1 3/16	3 3/4	37,882

SERIES 525 PARALLEL VISES



Technical attributes

The parallel vises of series 525 are used for clamping workpieces in crafts, industry, and workshops. The induction-hardened parts of series 525 make it ideal for the universal clamping of medium-sized workpieces, and the material ensures the necessary durability and stability of the vise.

Benefits

- High-quality material and easy operation
- Medium execution for flexible work as a Parallel Vise

#	4021176			$\bar{\underline{[}} \bigcirc$	<u>t</u>	100	د ک		
	EAN	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	kg/lb
525-100	-925185	125 4 15/16	292 11 1/2	125 4 15/16	125 4 15/16	100 3 15/16	17 11/16	69 2 11/16	6,89 15,192
525-125	-925192	145 5 11/16	350 13 3/4	148 5 13/16	150 5 7/8	125 4 15/16	20 13/16	82 3 1/4	10,32 22,756
525-150	-925208	165 6 1/2	452 17 13/16	178 7 1/64	200 7 7/8	150 5 7/8	24 15/16	99 3 7/8	11,5 25,358
525-175	-925215	190 7 1/2	510 20 1/16	208 8 3/16	220 8 11/16	175 6 7/8	27 1 1/16	122 4 13/16	26,46 58,344
525-100-R	-455675	125 4 15/16	292 11 1/2	125 4 15/16	125 4 15/16	100 3 15/16	17 11/16	69 2 11/16	11 24,255
525-125-R	-178796	145 5 11/16	350 13 3/4	148 5 13/16	150 5 7/8	125 4 15/16	20 13/16	82 3 1/4	11,5 25,358
525-150-R	-813468	165 6 1/2	452 17 13/16	178 7 1/64	200 7 7/8	150 5 7/8	24 15/16	99 3 7/8	16,67 36,757
525-175-R	-831332	190 7 1/2	510 20 1/16	208 8 3/16	220 8 11/16	175 6 7/8	27 1 1/16	122 4 13/16	26 57,330
525-100-G	-035815	125 4 15/16	292 11 1/2	125 4 15/16	125 4 15/16	100 3 15/16	17 11/16	69 2 11/16	6,775 14,939
525-125-G	-096991	145 5 11/16	350 13 3/4	148 5 13/16	150 5 7/8	125 4 15/16	20 13/16	82 3 1/4	10,27 22,645
525-150-G	-097028	165 6 1/2	452 17 13/16	178 7 1/64	200 7 7/8	150 5 7/8	24 15/16	99 3 7/8	17 37,485
525-175-G	-097042	190 7 1/2	510 20 1/16	208 8 3/16	220 8 11/16	175 6 7/8	27 1 1/16	122 4 13/16	6,55 14,443

SERIES 160-1 FLANGE SPREADER



The flange spreaders of series 160 are used in pairs for the safe and accident-free separation of flange connections of pipelines in power plants, petrochemistry, or offshore. They enable the separation of large and high-performance flanges, allowing for easy maintenance work, even when a large access gap is present between the flanges.

Benefits

- After completing the work, the flanges will be returned precisely to their original position.
- Flange spreaders are the perfect solution for the repair of pipes and flanges.

Technical attributes

#	4 021176		Ø min. mm	SW 	i
	EAN	mm/inch	mm/inch	mm/inch	kg/lb
160-1-E	-245701	80 - 250 3 1/8-9 13/16	14,5 9/16	24 15/16	2,905 6,406
160-1-P	-041167	80 - 250 3 1/8-9 13/16	14,5 9/16	24 15/16	5,87 12,943

SERIES 160-2 FLANGE SPREADER



The flange spreaders of series 160 are used in pairs for the safe and accident-free separation of flange connections of pipelines in power plants, petrochemistry, or offshore. They enable the separation of large and high-performance flanges, allowing for easy maintenance work, even when a large access gap is present between the flanges.

Benefits

- After completing the work, the flanges will be returned precisely to their original position.
- Flange spreaders are the perfect solution for the repair of pipes and flanges.

#	 		Ø min. mm	sw 	i
	EAN	mm/inch	mm/inch	mm/inch	kg/lb
160-2-E	-245886	250 - 1200 9 13/16-47 1/4	24 15/16	27 1 1/16	8,95 19,735
160-2-P	-041174	250 - 1200 9 13/16-47 1/4	24 15/16	27 1 1/16	7,39 16,295

SERIES 165 UNIVERSAL SPREADER



The universal spreader of the series 165 is used for the quick and safe spreading of flanges and similar parts of all kinds and sizes in the industry. It is a universal tool designed for many applications, intended for paired use.

Benefits

- The smooth operation of the spreader is performed via a built-in ratchet.
- The tool allows for easy execution of maintenance tasks such as a seal ring replacement.



Technical attributes

#	4 021176	<u>★</u> 1	SW	Max. tensile force	Max. tractive force	
	EAN	mm/inch	mm/inch	kN	t/US t. sh.	kg/lb
165-E	-491979	10 - 75 3/8 - 2 15/16	30 1 3/16	20	2 2.20	6,5 14,333

SERIES 689 LANGBECK LOCKING PLIERS



The Langbeck locking pliers of series 689 are used for clamping and gripping in narrow, tapering areas in workshops, industry, and trade. The locking pliers are not only handy and can be operated with one hand, but the toggle lever mechanism also allows for the application of very high forces. The series 689 is an ideal choice, especially in cases of reduced accessibility.

Benefits

- The knurled screw with fine thread allows for precise setting of spread and clamping pressure.
- The single-handed quick-release lever with return spring and clamping protection reduces the risk of injury and speeds up the work process.

#	4021776	<u>L</u> →	max.	i
	EAN	mm/inch	mm/inch	kg/lb
689-150	-005664	150 5 7/8	40 1 9/16	0 0,000
689-230	-005688	230 9 1/16	55 2 3/16	0,395 0,871

SERIES 690 UNIVERSAL LOCKING PLIERS



The Universal locking pliers of series 690 are used for securely holding round, Profilee, and flat materials in workshops, industry, and crafts. The locking pliers are not only handy and can be operated with one hand, but the toggle mechanism also allows for very high forces to be applied. The series 690 is a universal model suitable for a variety of workpieces.

Benefits

- The semicircular jaws are particularly suitable for round and flat material.
- The knurled screw with fine threads allows for precise adjustment of spread and clamping pressure.

Technical attributes

#	4021176	L ←──→	max.	i
	EAN	mm/inch	mm/inch	kg/lb
690-180	-651367	180 7 1/16	35 1 3/8	0,37 0,816
690-250	-651442	250 9 13/16	50 1 15/16	0,605 1,334
690-300	-651510	300 11 13/16	65 2 9/16	0,95 2,095

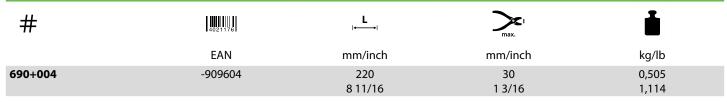
SERIES 690+ UNIVERSAL LOCKING PLIERS



The universal locking pliers of the 690+ series are used for securely holding round, Profilee, and flat materials in the workshop, industrial settings, and crafts. The locking pliers are not only handy and can be operated with one hand, but the lever mechanism also allows for very high forces to be applied. The 690+ series is a universal model suitable for a wide range of workpieces.

Benefits

- Tensioning regulator and release lever make working with locking pliers easier.
- Jaw body and gripping jaws are made of highly durable material.



SERIES 691 PRISMA LOCKING PLIERS



The Prisma grip pliers of series 691 are used for securely holding round, Profilee, and flat materials in workshops, industry, and crafts. The grip pliers are not only handy and can be operated with one hand, but thanks to the lever mechanism, very high forces can also be applied. The 691 series features a wire groove in the upper jaw, allowing nails and wires to be accessible and manageable from the front.

Benefits

- Particularly suitable for round and flat materials
- The knurled screw with fine threads allows for precise adjustment of spread and clamping pressure.

Technical attributes

#	4021176	L ←──→	max.	i
	EAN	mm/inch	mm/inch	kg/lb
691-180	-651695	180 7 1/16	30 1 3/16	0,28 0,617
691-250	-651770	250 9 13/16	35 1 3/8	0,595 1,312

SERIES 691+ UNIVERSAL OPTI GRIP PLIERS



The Universal Opti-Grip Pliers of series 691+ are used for securely holding round, Profilee, and flat materials in workshops, industry, and crafts. The grip pliers are not only handy and can be operated with one hand, but the toggle lever mechanism also enables the application of very high forces.

Benefits

- Tensioning regulator and release lever make working with locking pliers easier.
- Jaw body and gripping jaws are made of highly durable material.

#	4021176	L ←──→	max.	
	EAN	mm/inch	mm/inch	kg/lb
691+005	-909611	220 8 11/16	30 1 3/16	0,495 1,091

SERIES 692 IDEAL LOCKING PLIERS



The Ideal locking pliers of series 692 are used for securely holding round, Profilee, and flat materials in workshops, industry, and crafts. The locking pliers are not only handy and can be operated with one hand, but also allow for very high forces to be applied thanks to the lever mechanism. Series 692 features a combined jaw design with four-point contact.

Benefits

- The knurled screw with fine thread allows for precise setting of spread and clamping pressure.
- The one-hand quick-release lever with return spring and clamping protection reduces the risk of injury and speeds up the work process.

Technical attributes #	 4021176	L ←──→	max.	
	EAN	mm/inch	mm/inch	kg/lb
692-250	-651930	250 9 13/16	50 1 15/16	0,57 1,257

SERIES 693 PARALLEL-PLUS-LOCKING PLIERS



The Parallel-Plus locking pliers of series 693 are used for securely holding round, Profilee, and flat materials in workshops, industry, and crafts. The locking pliers are not only handy and can be operated with one hand, but thanks to the toggle lever mechanism, very high forces can also be applied. Series 693 has a combined jaw shape with a swiveling jaw, making parallel and prismatic clamping possible.

Benefits

- Suitable for symmetrical materials as well
- The knurled screw with fine thread allows for precise adjustment of spread and clamping pressure.

#	4021176	L ←──→	max.	
	EAN	mm/inch	mm/inch	kg/lb
693-250	-650117	250 9 13/16	45 1 3/4	0,62 1,367

SERIES 694 BROAD-JAW LOCKING PLIERS



The wide-jaw locking pliers of the 694 series are used for clamping edges and surfaces in workshops, industries, and crafts. The locking pliers are not only handy and can be operated with one hand, but the toggle lever mechanism also allows for very high forces to be applied. The 694 series can be utilized for clamping, bending, and flanging thinner, softer sheets due to its jaw shape.

Benefits

- The knurled screw with fine thread allows for precise adjustment of spread and clamping pressure.
- The one-hand quick-release lever with return spring and clamping protection reduces the risk of injury and speeds up the work process.

Technical attributes

#	4021176	L ←──→	max.	i
	EAN	mm/inch	mm/inch	kg/lb
694-275	-652012	180	45	0,53
		7 1/16	1 3/4	1,169

SERIES 695 SCHWEISSER-LOCKING PLIERS



The welding grip pliers of series 695 are used for centric clamping when welding Profilee or flat material by impact in workshop, industry, and trades. The grip pliers are not only handy and can be operated with one hand, but thanks to the lever mechanism, very high forces can also be applied. The series 695, with its U-shaped jaws, facilitates easier and more flexible clamping due to its good vibration absorption.

Benefits

- · Also ideal for more delicate surfaces
- The knurled screw with fine thread allows for precise adjustment of spread and clamping pressure.

#		L ←──→	max.	i
	EAN	mm/inch	mm/inch	kg/lb
695-280	-652197	280 11 1/32	60 2 3/8	0,85 1,874

SERIES 696 PIPE WELDER LOCKING PLIERS



The 696 series of pipe welding locking pliers are used for centric clamping when welding round or pipe materials in the workshop, industry, and crafts. The locking pliers are not only handy and can be operated with one hand, but the knee lever mechanism also allows for the application of very high forces. The 696 series enables easier and more flexible clamping even with round materials due to its good vibration absorption.

Benefits

- · Also ideal for more sensitive surfaces
- The knurled screw with fine threads allows for precise adjustment of spread and clamping pressure.

Technical attributes

#	4 021176	<u>L</u> ←──→	max.	i
	EAN	mm/inch	mm/inch	kg/lb
696-280	-652272	280 11 1/32	90 3 9/16	0,85 1,874

SERIES 697 CLAMPING-LOCKING PLIERS



The clamping locking pliers of series 697 are used for clamping, holding and gripping Profilee and flat material in workshops, industry and craftsmanship. The locking pliers are not only handy and can be operated with one hand, but the lever mechanism also allows very high forces to be applied. The series 697 with its special shape can also clamp asymmetrical and bulky workpieces and Profilees with high webs.

Benefits

- Optimal suited for tensioning behind cross beams with asymmetrical materials
- The knurled screw with fine threads allows for precise adjustment of spread and clamping pressure.

#	4021176	L	max.		i
	EAN	mm/inch	mm/inch	mm/inch	kg/lb
697-280	-652357	280 11 1/32	90 3 9/16	A:55 B:85 C:95 D:77	0,75 1,654



SERIES 698 PARALLEL JAW LOCKING PLIERS



The parallel clamping pliers of series 698 are used for clamping and gripping round, Profilee, and flat materials in workshops, industry, and crafts. The grip pliers are not only handy and can be operated one-handed, but the lever mechanics also allow for the application of very high forces. Series 698, with its movable jaws with large support discs, provides excellent clamping effect even with asymmetric materials.

Benefits

- Optimal suited for tensioning behind bridges with asymmetric materials
- The knurled screw with fine threads allows for precise adjustment of spread and clamping pressure.

Technical attributes

#		L ←—→	max.		i
	EAN	mm/inch	mm/inch	mm/inch	kg/lb
698-280	-652432	280 11 1/32	90 3 9/16	A:55 B:85 C:95 D:77	0,785 1,731

SERIES 280 TOOL AND DRILL HOLDER WITH RATCHET



The tool and drill holders with ratchet of the series 280 are tool holders for threading and reaming. Due to their short design, they are particularly suitable for hard-to-reach places.

Benefits

- Switchable for left and right operation as well as rigid locking
- Two-jaw chuck for securely clamping square shafts



#	4 021176	L	DIN 352	DIN 206	(i.e)	i
	EAN	mm/inch			mm/inch	kg/lb
280-085	-910938	85 3 3/8	M2 - M8	2,5 - 6,5	2 - 5,5 1/16-3/16	0,175 0,386
280-100	-910945	110 4 5/16	M5 - M12	4-8	4,5 - 8 3/16-5/16	0,28 0,617
280-250	-910952	250 9 13/16	M1 - M10	2,5 - 6,5	2 - 5,5 1/16-3/16	0,26 0,573
280-300	-910969	300 11 13/16	M5 - M12	5,5 - 10	4,5 - 8 3/16-5/16	0,415 0,915

SERIES 315 TOOL HOLDER

The tool holders of series 315 are used for holding various tools for universal use in craft, industry, and workshop. Series 315 is drilled.



Benefits

- Brass
- Nickel-plated



Technical attributes

#		<u>L</u> ←──→		i
	EAN	mm/inch	mm/inch	kg/lb
315-801	-701284	80 3 1/8	0 - 1 0 - 1/32	0,3 0,662
315-802	-701369	80 3 1/8	1 - 2 1/32 - 1/16	0,6 1,323

SERIES W-3132/K2 RIVET MACHINES



The W-3132 series riveter is suitable for all riveting work, especially for brake and clutch linings, etc., and even with complicated jaws featuring longitudinal and height ribs. It is a manual tool for riveting and unriveting with a long lever for energy-saving operation. The riveting is done from below, and the unriveting from above.

Benefits

- Simple and practical to handle
- The riveting machine can be clamped in the vise as well as attached to the wall with screws.
- The rivet inserts are replaceable by loosening two knob screws.

#	4021176	Ī	i
	EAN	mm/inch	kg/lb
W-3132/K2	-555662	10 3/8	9,395 20,716

SERIES 721 CHISEL HOLDERS



The chisel holders made of PVC from the series 721 are used for protection during chisel work and similar activities in crafts, industry, and workshops. The shape and construction of the green holder protect the user and prevent hand injuries in everyday work. Ideal for oval chisels from 20x12 mm to 26x13 mm as well as 8-sided chisels 16-20 mm.

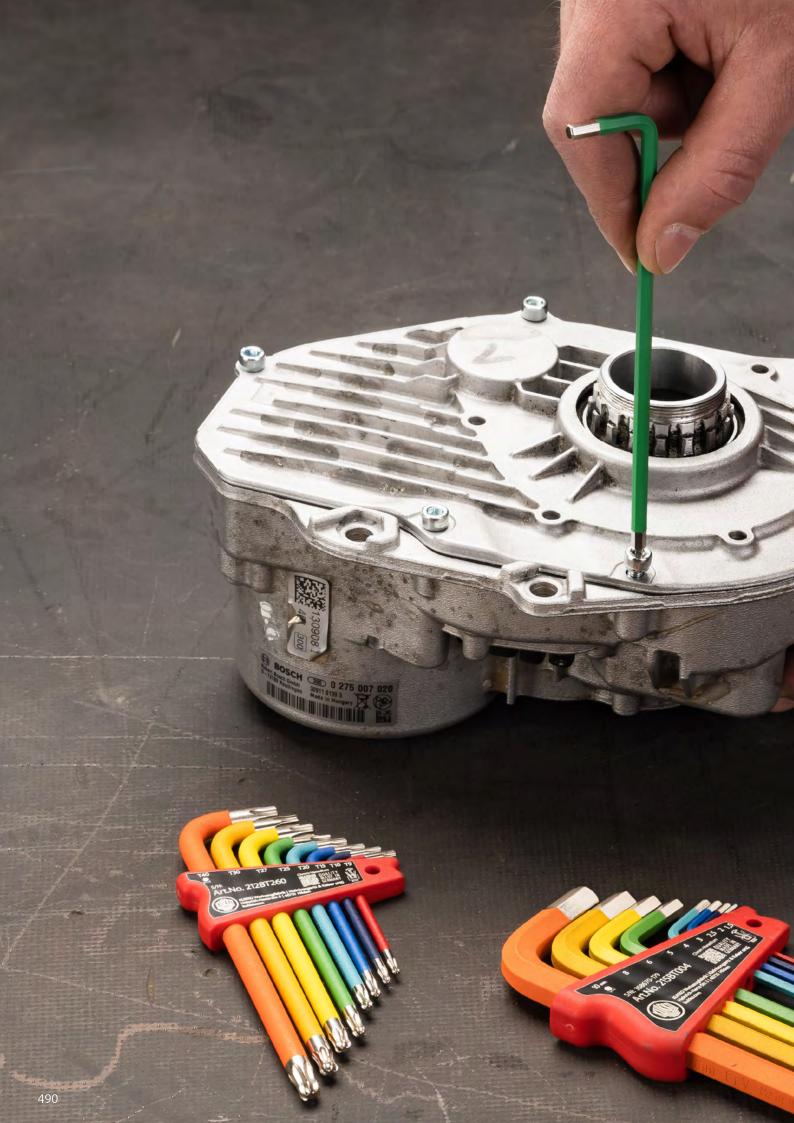
Benefits

- The grippy and secure shape reduces fatigue and increases safety.
- Elliptical shape prevents rolling away



(Application example)

#	 	L ←—→	omm	$\{ \} $	Chisel pick-up
	EAN	mm/inch	mm/inch	mm/inch	mm
721-1	-344367	120 4 3/4	40 1 9/16	103 4 1/16	20x12 - 26x13, 26x7, 16 - 20







SCREW & DRIVE

For fine work in watchmaking, for compressing and holding multiple components, or for operating hard-to-reach screw heads – KUKKO offers the perfect solution for every application.

The activities of Screw & Drive include:

- Watchmaker screwdriver
- European wrench
- Impact wrench

DEPLOYMENT

For the activity "Screwing & Drive," KUKKO offers various tools in its range. This extends from angle screwdrivers (internal hexagon or Torxx) to impact wrenches and watchmakers' screwdrivers. The perfect solution is found for every application case.

FEATURES OF THE SERIES

SERIES 204



The angle screwdrivers ISO 2936 of series 201 are used for operating hard-to-reach screw heads. Hardness and torque meet the ISO standard. The sales and workshop stands are used for proper storage.

SERIES 211



The Tamper TX angle screwdrivers of series 211 are used for operating hard-to-reach screw heads. Unlike hex keys, the Torx Profilee grips in the center and thus enables easier working and less

SERIES 212BT



The color-coded TX angle screwdrivers with ball head from the 212 series simplify the selection of the required size and are used for operating hard-to-reach screw heads.

SERIES 1900



The European from the 1900 series is used to compress and hold multiple workpieces. The adjustable double-ended wrench allows for easy fixation of both metallic and round or polygonal bodies.

SERIES 250



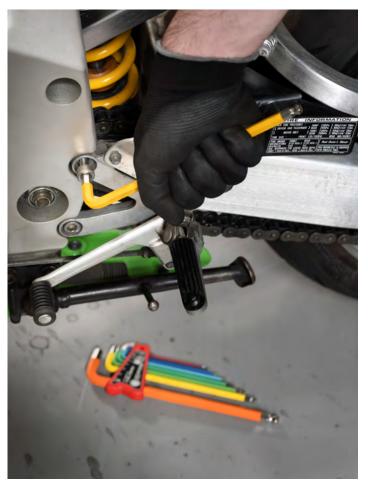
The slotted watchmaker screwdrivers of series 250 are used for precise work for the highest demands in craftsmanship and watchmaking. The screwdrivers with a revolving hexagon head and knurled fine screwdriver handle allow for the dosed transfer of high torque.

SERIES 133 | 406



The impact wrenches (DIN 133) of series 133 are used for applications in commercial vehicles, pipe industry, tank cleaning, petrochemical industry, steel and mining, etc. With them, hexagonal or square screw heads and nuts can be operated effortlessly.

APPLICATION EXAMPLES



Loosening a Torx screw on an electric motor with an allen key from the series 212.



The angle screwdrivers from the sales and workshop stand ISO 2936 during the disassembly of a stamping tool. $\frac{1}{2} \left(\frac{1}{2} \right) = \frac{1}{2} \left(\frac{1}{2} \right) \left(\frac{1}{2} \right$



A screwdriver from the watchmaker screwdriver set 250-600 for screwing work on a mobile phone.



The European 1900-30 when tightening or loosening a nut on a machine.

SERIES 250-550 WATCHMAKER SCREWDRIVER SET IN WOODEN BOX



The nickel-free watchmaker screwdriver sets in the wooden box of series 250 are used for precision work for the highest demands in craftsmanship and watchmaking. The screwdrivers with rotatable hexagon heads and knurled fine screw grips allow for the controlled transmission of strong torque. Made from corrosion-resistant aluminum, the handle ensures exceptionally high strength. Thanks to the rejuvenated handle shape, quick screwing is enabled. Depending on requirements, the set contains screwdrivers for various Profilee sizes and types. The information in the wooden box helps know exactly which screwdriver is needed.

Benefits

- · Application-oriented assembly for universal use
- By storing it in the wooden box, the completeness of the set can be easily overviewed.
- · Different designs allow for use with various Profilees

Technical attributes

#	 	L ←—→	Ømm	; 	\oplus	
	EAN	mm/inch	mm/inch	mm/inch		kg/lb
250-550	-713652	84-112 3 5/16-4 7/16	5-8 3/16 - 5/16		PH0000; PH000; PH00; PH0	0,26 0,573
250-560	-599072	80-112 3 1/8-4 7/16	5-8 3/16 - 5/16	1,0, 1,5, 2,0, 2,5, 3,0, 3,5 1/32, 1/32, 1/16, 1/16, 1/8, 1/8	-	0,345 0,761
250-570	-713737	80-112 3 1/8-4 7/16	5-8 3/16 - 5/16	1,0; 1,5; 2,0; 3,0 1/32;1/32;1/16;1/8	PH0; PH00	0,36 0,794

SERIES 250-600 WATCHMAKER SCREWDRIVER SET IN WOODEN STAND



The nickel-free watchmaker screwdriver sets in the wooden stand of series 250 are used for delicate work to meet the highest demands in crafts and watchmaking. The screwdrivers with rotating hexagonal head and knurled fine grip allow for controlled transmission of high torque. Made from corrosion-resistant aluminum, the handle guarantees particularly high strength. Thanks to the rejuvenated grip shape, rapid screwing is enabled. Depending on the needs, the set includes screwdrivers for various Profilee sizes and types. The markings in the wooden stand help to know exactly which screwdriver is needed.

Benefits

- · Application-oriented assembly for universal use
- By storing it in the wooden stand, the completeness of the set can be easily overviewed.
- Different designs allow for use with various Profilees



SERIES 250-500 WATCHMAKER SCREWDRIVER SETS



The clockmaker's screwdriver sets of series 250 are used for precise work with the highest demands in craftsmanship and watchmaking. The screwdrivers with a rotating hexagon head and knurled fine screw grip allow for the controlled transmission of strong torques. Depending on the needs, the set contains screwdrivers for various Profilee sizes and types.

Benefits

- · Application-oriented assembly for universal use
- · Also suitable for other areas of technology



Technical attributes

#	4021176	;	\oplus	i
	EAN	mm/inch		kg/lb
250-500	-598730		PH000; PH00; PH0	1,265 2,789
250-520	-713409	1,0; 1,5; 2,0; 3,0 1/32;1/32;1/16;1/8	PH00; PH0	0,135 0,298
250-540	-701444	1,0; 1,5; 2,0; 2,5; 3,0; 3,5 1/32;1/32;1/16;1/16;1/8;1/8	-	0,125 0,276
250-545	-713577	1,0; 1,5; 1,8; 2,3; 2,9 1/32;1/32;1/32;1/16;1/16	-	0,07 0,154

SERIES 250-PH PHILLIPS WATCHMAKER SCREWDRIVER



The Phillips screwdrivers of series 250 are used for delicate work for the highest demands in craftsmanship and watchmaking. The screwdrivers with a rotating hexagonal head and knurled fine screw grip allow for the precise transmission of strong torque. The screwdrivers of series 250-PH are designed for various Phillips cross-Profilees. The colored ring below the head of the screwdrivers simplifies selection.

Benefits

- Also suitable for other areas of technology
- High-quality material and hardened execution

#		L	å ⊗mm	\oplus	i
	EAN	mm/inch	mm/inch		kg/lb
250-042	-711672	84 3 5/16	5 3/16	PH0000	0,01 0,022
250-043	-711757	100 3 15/16	6 1/4	PH000	0,015 0,033
250-044	-711832	100 3 15/16	6 1/4	PH00	0,02 0,044
250-045	-711917	112 4 7/16	8 5/16	PH0	0,035 0,077
250-046	-925734	112 4 7/16	8 5/16	PH1	0,0001 0,000

SERIES 250-000 SLOT WATCHMAKER SCREWDRIVER



Technical attributes

The slot screwdrivers of series 250 are used for precise work meeting the highest standards in craftsmanship and watchmaking. The screwdrivers with a rotatable hexagonal head and knurled fine grip allow for the measured transfer of high torque. The screwdrivers of series 250-0 are designed for slotted Profilees.

Benefits

- · Also suitable for other areas of technology
- · High-quality material and hardened execution

EAN mm/inch mm/inch mm/inch mm/inch kg/lb 250-010 -597580 80 5 1 0,20 0,5 3 1/8 3/16 1/32 1/64 1,103 250-012 -529863 84 5 1,2 0,25 0 250-014 -529870 84 5 1,4 0,25 0 250-015 -597665 84 5 1,5 0,23 0,000 250-020 -597740 100 6 2 0,40 0,02 250-025 -597825 100 6 2,5 0,40 0,02 250-029 -597825 100 6 2,5 0,40 0,02 250-029 -529887 112 8 2,9 0,50 0,2 250-030 -597900 112 8 3 0,50 0,03 47/16 5/16 1/16 1/64 0,066 250-035 -598082 <td< th=""><th>#</th><th>4021176</th><th>L ←—→ </th><th>Š ⊗mm</th><th>÷,</th><th>mm +</th><th>i</th></td<>	#	4021176	L ← —→	Š ⊗mm	÷,	mm +	i
250-012 -529863 84 5 1,2 0,25 0 250-014 -529870 84 5 1,4 0,25 0 250-014 -529870 84 5 1,4 0,25 0 250-015 -529865 84 5 1,5 0,23 0,0009 250-020 -597740 100 6 2 0,40 0,02 250-025 -597825 100 6 2,5 0,40 0,044 250-029 -529887 112 8 2,9 0,50 0,2 250-030 -597900 112 8 3 0,50 0,03 47/16 5/16 1/8 1/8 1/64 0,066		EAN	mm/inch	mm/inch	mm/inch	mm/inch	kg/lb
250-014 -529870 84 5 1,4 0,25 0 250-015 -597665 84 5 1,5 0,23 0,000 250-020 -597740 100 6 2 0,40 0,02 250-025 -597825 100 6 2,5 0,40 0,02 250-029 -529887 112 8 2,9 0,50 0,2 250-030 -597900 112 8 3 0,50 0,03 47/16 5/16 1/8 1/8 1/64 0,066	250-010	-597580			1 1/32		
250-015 -597665 84 5 1,5 0,23 0,0009 250-020 -597740 100 6 2 0,40 0,02 250-025 -597825 100 6 2,5 0,40 0,02 250-029 -529887 112 8 2,9 0,50 0,2 250-030 -597900 112 8 3 0,50 0,03 47/16 5/16 1/8 1/64 0,066	250-012	-529863					-
250-020 -597740 100 6 2 0,40 0,002 250-025 -597825 100 6 2,5 0,40 0,02 250-029 -529887 112 8 2,9 0,50 0,2 47/16 5/16 1/16 1/16 1/64 0,441 250-030 -597900 112 8 3 0,50 0,03 47/16 5/16 1/8 1/64 0,066	250-014	-529870					
250-025 -597825 100 6 2,5 0,40 0,02 250-029 -529887 112 8 2,9 0,50 0,2 47/16 5/16 1/16 1/64 0,041 250-030 -597900 112 8 3 0,50 0,03 47/16 5/16 1/8 1/64 0,066	250-015	-597665				•	•
3 15/16 1/4 1/16 1/64 0,044 250-029 -529887 112 8 2,9 0,50 0,2 4 7/16 5/16 1/16 1/64 0,441 250-030 -597900 112 8 3 0,50 0,03 4 7/16 5/16 1/8 1/64 0,066	250-020	-597740					
47/16 5/16 1/16 1/64 0,441 250-030 -597900 112 8 3 0,50 0,03 47/16 5/16 1/8 1/64 0,066	250-025	-597825			· ·	•	· ·
47/16 5/16 1/8 1/64 0,066	250-029	-529887					
250.035 -598082 112 8 3.5 0.60 0.036	250-030	-597900		-			
47/16 5/16 1/8 1/32 0,079	250-035	-598082	112 4 7/16	8 5/16	3,5 1/8	0,60 1/32	0,036 0,079

SERIES 250-100 SCREWDRIVER WITH INTERCHANGEABLE BLADES IN THE MAGAZINE



The precision screwdrivers with interchangeable blades in the magazine of the series 250 are used for delicate work for the highest demands in craftsmanship and watchmaking. The screwdrivers with a rotating hexagonal head and knurled fine grip allow the controlled transmission of high torque. The screwdrivers of series 250-1 are suitable for various Profilee types thanks to their interchangeable blades.

Benefits

- Replacement blades allow the use with slotted and cross Profilees.
- · Also suitable for other areas of technology

#	4021176	L ←—→	Š ⊝mm	; 	
	EAN	mm/inch	mm/inch	mm/inch	kg/lb
250-120	-598815	115 4 1/2	8,5 5/16	1,5; 2; 2,5; 3 1/32;1/16;1/16;1/8	0,3 0,662
250-130	-712099	115 4 1/2	8,5 5/16	PH0; PH00; PH000; PH0000	0,15 0,331
250-140	-712174	115 4 1/2	8,5 5/16	1,5; 2,0; 2,5; 3,0; PH00	0,035 0,077

SERIES 1900 EUROPEAN



The European of the series 1900 is used for compressing and holding multiple workpieces in crafts, industry, and workshop. With the adjustable wrench featuring a double-sided jaw, both metallic and round or polygonal bodies can be easily fixed. It is an advancement of the "Frenchman" and "Englishman." Beyond its holding capability, it can also be utilized for clamping, fixing, turning screws, or loosening.

Benefits

- No uncontrolled adjustment due to locking mechanism
- Single-sided diamond mouth for improved application possibilities



#		<u>L</u> ←—→	<u> </u>	a	
	EAN	mm/inch	mm/inch	mm/inch	kg/lb
1900-30	-000355	150 5 7/8	30 1 3/16	14 9/16	0,455 1,003
1900-50	-000362	175 6 7/8	50 1 15/16	15 9/16	0,48 1,058
1900-75	-000416	260 10 1/4	88 3 7/16	20 13/16	1,74 3,837



SERIES 205-100 ALLEN KEY



The hand lever clamps of series 205 are used to operate hard-to-reach screw heads in workshops, industry, and craftsmanship. Hardness and torque meet ISO standards. The series 205 is cost-effective and compact and available in numerous sizes suitable for various hexagons.

Benefits

- · Chamferred forehead edges
- · Various designs allow use with different hex sizes

Technical attributes

#	 4021176	sw —	Profile	i
	EAN	mm/inch		kg/lb
205-101	-584870	1,5, 2,0, 2,5, 3,0, 4,0, 5,0, 6,0 1/32;1/16;1/16;1/8;3/16;3/16;1/4	Hexagon	0,145 0,320
205-102	-584955	2,5, 3,0, 4,0, 5,0, 6,0, 8,0 1/16;1/8;3/16;3/16;1/4;5/16	Hexagon	0,25 0,551
205-103	-585037	3,0, 4,0, 5,0, 6,0, 8,0, 10,0 1/8;3/16;3/16;1/4;5/16;3/8	Hexagon	0,325 0,717
205-104	-585112	2,5, 3,0, 4,0, 5,0, 6,0, 8,0, 10,0 1/16;1/8;3/16;3/16;1/4;5/16;3/8	Hexagon	0,335 0,739
205-202	-798789	2,5, 3,0, 4,0, 5,0, 6,0, 8,0 1/16;1/8;3/16;3/16;1/4;5/16	Hexagon	0,2 0,441
205-204	-798796	2,5, 3,0, 4,0, 5,0, 6,0, 8,0, 10,0 1/16;1/8;3/16;3/16;1/4;5/16;3/8	Hexagon	0,2865 0,632

SERIES 205-109 ALLEN KEY



The manual lever clamps of the series 205 are used to operate hard-to-reach screw heads in workshops, industry, and crafts. Hardness and torque comply with ISO standards. The series 205 is cost-effective and compact, and suitable for various hexagons in numerous sizes.

Benefits

- · Chamferred forehead edges
- Various designs allow use with different hex sizes

#	4 021176	sw —	Profile	i
	EAN	mm/inch		kg/lb
205-109	-585600	2,5, 3, 4, 5, 6, 8, 10 1/16;1/8;3/16;3/16;1/4;5/16;3/8	Hexagon	0,335 0,739

SERIES 201/202 SALES AND WORKSHOP STAND ISO 2936



The sales and workshop stands ISO 2936 of the series 201/202 serve for the proper storage of hex keys used in workshops, industry, and crafts. Hardness and torque conform to ISO standards. The series 201/202 is cost-effective and compact, and suitable in numerous sizes for various hexagonal drives.

Benefits

- · Chamferred forehead edges
- · Various designs allow use with different hex sizes



Technical attributes

#		SW 	i
	EAN	mm/inch	kg/lb
201-909	-594022	2,5, 3,0, 4,0, 5,0, 6,0, 8,0, 10,0, 12,0, 14,0 1/16;1/8;3/16;3/16;1/4;5/16;3/8;1/2;9/16	1,11 2,448

SERIES 204-900 SALES AND WORKSHOP STAND ISO 2936 LONG



The sales and workshop stands ISO 2936 of the series 204 serve for the proper storage of Allen keys used in workshops, industry, and crafts. Hardness and torque comply with ISO standards. The series 204 is affordable and compact.

Benefits

- Chamferred forehead edges
- Various designs allow use with different hex sizes

#	4 021176	SW ⊷	SW →	i
	EAN	mm	inch	kg/lb
204-909	-594107	2,5, 3,0, 4,0, 5,0, 6,0, 8,0, 10,0, 12,0, 14,0	1/16;1/8;3/16;3/16;1/4;5/16 ;3/8;1/2;9/16	1,59 3,506
204-990	-695347	-	3/32; 1/8; 5/32; 3/16; 1/4; 5/16; 3/8; 1/2; 9/16 inch	1,19 2,624

SERIES 212BT TX-ANGLE SCREWDRIVER WITH BALL HEAD AND COLOR CODING

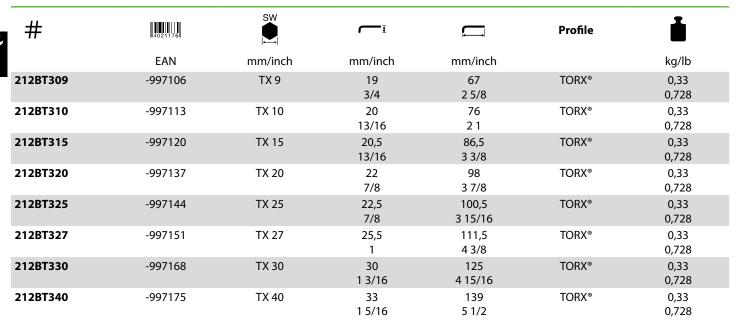


The color-coded TX hex screwdrivers with ball head of the series 212BT are used for operating hard-to-reach screw heads in workshops, industry, and crafts. Unlike hex keys, the Torx Profilee engages centrally, making it easier to work and reducing wear. The color coding of the hex screwdrivers simplifies the search for the correct size.

Benefits

- The color coding of the allen keys simplifies the selection
- · Various designs allow use with different hex sizes
- · Different versions allow Usage with different hexagon sizes

Technical attributes



SERIES 213BT "BALL-END L-SHAPED SCREWDRIVER, LONG AND COLOR-CODED"



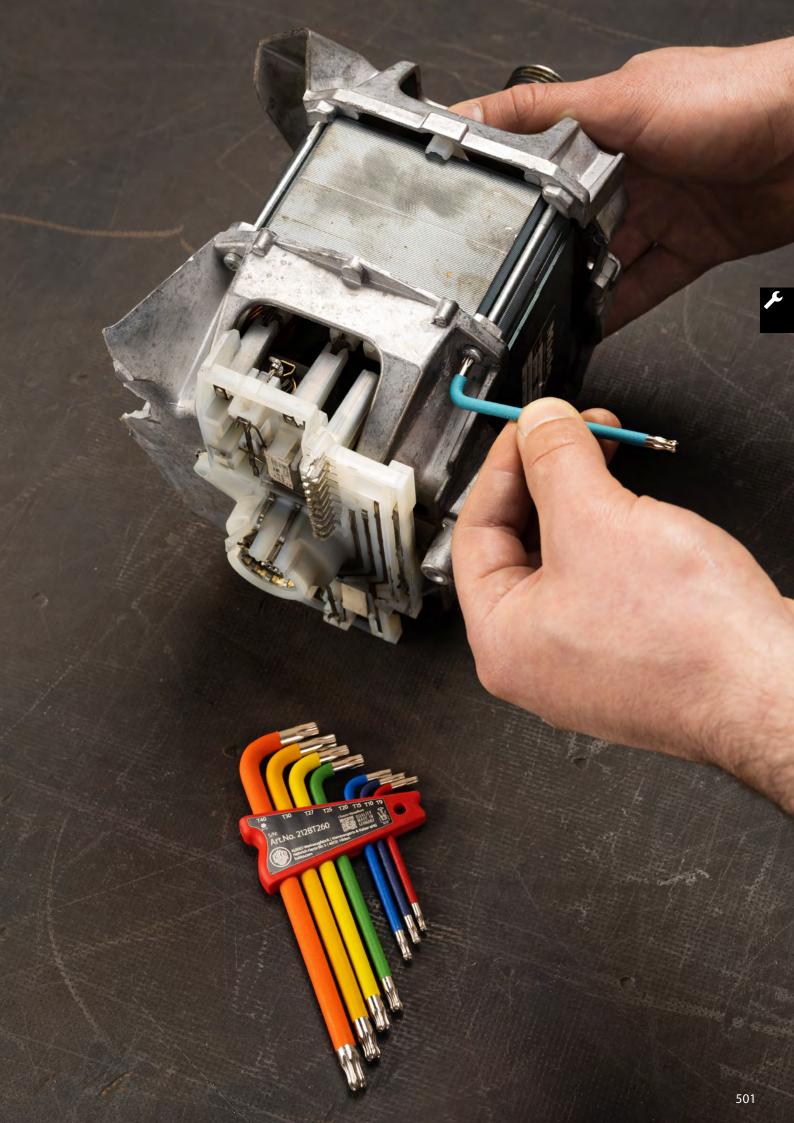
Technical attributes

The long, color-coded angle screwdrivers with ball head of series 213 are used for operating hard-to-reach screw heads in workshops, industry, and trades. Hardness and torque meet the ISO standard. Series 213 is cost-effective and compact, and is housed in a lockable, impact-resistant plastic case.

Benefits

- The ball head allows for problem-free screwing up to an angle of 30°.
- The color coding of the allen keys simplifies the selection.

#	 	sw 	Ī		Profile	i
	EAN	mm/inch	mm/inch	mm/inch		kg/lb
213BT015	-997243	1,5 1/32	15.5 5/8	91.5 3 5/8	Hexagon	0,002 0,004
213BT002	-178550	2 1/16	18 11/16	102 4 1/64	Hexagon	0,004 0,009
213BT025	-997267	2,5 1/16	20.5 13/16	114.5 4 1/2	Hexagon	0,01 0,022
213BT003	-997182	3 1/8	23 7/8	129 5 1/16	Hexagon	0,009 0,020
213BT004	-997199	4 3/16	29 1 1/8	144 5 11/16	Hexagon	0,015 0,033
213BT005	-997205	5 3/16	33 1 5/16	165 6 1/2	Hexagon	0,035 0,077
213BT006	-997212	6 1/4	38 1 1/2	186 7 5/16	Hexagon	0,05 0,110
213BT008	-997229	8 5/16	44 1 3/4	208 8 3/16	Hexagon	0,105 0,232
213BT010	-997236	10 3/8	50 1 15/16	234 9 3/16	Hexagon	0,185 0,408



SERIES 212-260 ALLEN KEY SET



The TX angle screwdrivers in the set of series 212 are used for operating hard-to-reach screw heads in workshops, industry, and crafts. Unlike hex keys, the Torx Profilee engages from the center, providing easier working and less wear.

Benefits

- Due to the wave-like course, a larger contact surface is created between the tool and the screw.
- Strength according to the specifications of the licensor Camcar, Textron, USA

Technical attributes

#	 	sw 	Ī		Profile	i
	EAN	mm/inch	mm/inch	mm/inch		kg/lb
212-260	-695675	9, 10, 15, 20, 25, 27, 30, 40 3/8;3/8;9/16;13/16;1;1 1/16;1 3/16;1 9/16	19-33 3/4-1 5/16	67-139 2 5/8-5 1/2	TORX®	0,16 0,353
212-265	-927608	9, 10, 15, 20, 25, 27, 30, 40 3/8;3/8;9/16;13/16;1;1 1/16;1 3/16;1 9/16	19-33 3/4-1 5/16	59-119 2 5/16-4 11/16	TORX®	0,16 0,353

SERIES 215 ALLEN KEY WITH BALL HEAD IN KUKKO CLIP



The angle screwdrivers with ball head in the KUKKO clip of series 215 are used for operating hard-to-reach screw heads in workshops, industry, and crafts. Hardness and torque comply with ISO standards.

Benefits

- The ball head allows for problem-free screwing up to an angle of 30°
- · Cleanly beveled edges

#	 	sw 	Ī		Profile	i
	EAN	mm/inch	mm/inch	mm/inch		kg/lb
215-000	-588427	1,5, 2,0, 2,5, 3,0, 4,0, 5,0, 6,0, 8,0, 10,0 1/32;1/16;1/16;1/8;3/16;3/16;1/4;5/16;3/8	15,5 - 500 9/16-19 11/16	91,5 - 234 3 9/16-9 3/16	Hexagon	0,439 0,968
215-001	-746414	0,05; 1/16; 5/64; 3/32; 1/8; 5/32; 3/16; 7/32; 1/4; 5/16 0,05; 1/16; 5/64; 3/32; 1/8; 5/32; 3/16; 7/32; 1/4; 5/16	16 - 44 5/8-1 3/4	92 - 208 3 5/8-8 3/16	Hexagon	0,3 0,662
215-002	-700607	1,5, 2,0, 2,5, 3,0, 4,0, 5,0, 6,0, 8,0, 10,0 1/32;1/16;1/16;1/8;3/16;3/16;1/4;5/16;3/8	15,5 - 50 9/16-1 15/16	91,5 - 234 3 9/16-9 3/16	Hexagon	0,4 0,882
215-003	-676032	1,5, 2,0, 2,5, 3,0, 4,0, 5,0, 6,0, 8,0, 10,0 1/32;1/16;1/16;1/8;3/16;3/16;1/4;5/16;3/8	15,5 - 50 9/16-1 15/16	91,5 - 234 3 9/16-9 3/16	Hexagon	0,336 0,741

SERIES 235 HEXAGON CROSS HANDLE SCREWDRIVER WITH DOUBLE-SIDED DRIVE



Technical attributes

The hexagonal cross-grip screwdrivers with double-sided drive from series 235 are used to operate screw heads under high torques in workshops, industry, and crafts. Hardness and torque comply with ISO standards. Series 235 is ideal for use in demanding situations.

Benefits

- The soft finger guard prevents disturbing contact with the blade.
- When using the short jaw arm, the already high torque performance of the cross grip system is additionally enhanced by using the longer arm as a lever.

#	4021176	L	SW 		i⊷i mm	Profile	
	EAN	mm/inch	mm/inch	mm/inch	mm/inch		kg/lb
235-0210	-314255	151	2	60	125	Hexagon	0,15
		5 15/16	1/16	2 3/8	4 15/16		0,331
235-0251	-314262	151	2,5	60	100	Hexagon	0,25
		5 15/16	1/16	2 3/8	3 15/16		0,551
235-0310	-314279	151	3	60	125	Hexagon	0,0002
		5 15/16	1/8	2 3/8	4 15/16		0,000
235-0415	-314286	151	4	60	125	Hexagon	0,035
		5 15/16	3/16	2 3/8	4 15/16		0,077
235-0515	-314293	184	5	80	150	Hexagon	0,065
		7 1/4	3/16	3 1/8	5 7/8		0,143
235-0620	-314309	184	6	80	150	Hexagon	0,085
		7 1/4	1/4	3 1/8	5 7/8		0,187
235-0820	-314316	218	8	100	175	Hexagon	0,175
		8 9/16	5/16	3 15/16	6 7/8		0,386
235-1020	-314323	218	10	100	175	Hexagon	0,245
		8 9/16	3/8	3 15/16	6 7/8		0,540

SERIES 212-TX TX SCREWDRIVER WITH T-HANDLE



Technical attributes

The TX screwdrivers with T-handle from series 212 are used for operating screw heads in workshops, industry, and craftsmanship. Unlike hex keys, the Torx Profilee engages centrally, allowing for easier work and less wear. Series 212 is affordable and compact.

Benefits

- Due to the wave-like course, a larger contact surface is created between the tool and the screw
- The handle made of impact-resistant polypropylene (PPN) enables easy and safe working.

#	4021176	L	SW ⊷		→ I mm	Profile	i
	EAN	mm/inch	mm/inch	mm/inch	mm/inch		kg/lb
212-108	-696177	125	TX 8	70	100	TORX®	0,4
		4 15/16		2 3/4	3 15/16		0,882
212-109	-696252	125	TX 9	70	100	TORX®	0,25
		4 15/16		2 3/4	3 15/16		0,551
212-110	-696337	125	TX 10	70	100	TORX®	0,25
		4 15/16		2 3/4	3 15/16		0,551
212-115	-696412	125	TX 15	70	100	TORX®	0,2
		4 15/16		2 3/4	3 15/16		0,441
212-120	-696580	125	TX 20	90	100	TORX®	0,4
		4 15/16		3 9/16	3 15/16		0,882
212-125	-696665	125	TX 25	90	100	TORX®	0,4
		4 15/16		3 9/16	3 15/16		0,882
212-127	-696740	125	TX 27	90	100	TORX®	0,55
		4 15/16		3 9/16	3 15/16		1,213
212-130	-696825	125	TX 30	90	100	TORX®	0,55
		4 15/16		3 9/16	3 15/16		1,213
212-140	-696900	125	TX 40	90	100	TORX®	0,7
		4 15/16		3 9/16	3 15/16		1,544
212-145	-697082	175	TX 45	90	150	TORX®	0,14
		6 7/8		3 9/16	5 7/8		0,309
212-150	-697167	175	TX 50	90	150	TORX®	0,16
		6 7/8		3 9/16	5 7/8		0,353
212-215	-697242	225	TX 15	90	200	TORX®	0,35
		8 7/8		3 9/16	7 7/8		0,772
212-220	-590550	225	TX 20	90	200	TORX®	0,06
		8 7/8		3 9/16	7 7/8		0,132
212-225	-697327	225	TX 25	90	200	TORX®	0,55
		8 7/8		3 9/16	7 7/8		1,213
212-227	-697402	225	TX 27	90	200	TORX®	0,8
		8 7/8		3 9/16	7 7/8		1,764
212-230	-697570	225	TX 30	90	200	TORX®	0,075
		8 7/8		3 9/16	7 7/8		0,165
212-240	-697655	225	TX 40	90	200	TORX®	0,1
		8 7/8		3 9/16	7 7/8		0,221
212-245	-697730	280	TX 45	110	250	TORX®	0,175
		11 1/32		4 5/16	9 13/16		0,386
212-250	-596750	280	TX 50	110	250	TORX®	0,21
		11 1/32		4 5/16	9 13/16		0,463



SERIES 214-T SCREWDRIVER WITH BALL HEAD AND T-HANDLE



The screwdrivers with ball head and T-handle from series 214 are used for operating screws in workshops, industry, and crafts. Hardness and torque conform to ISO standards. Series 214 is affordable and compact.

Benefits

- The ball head allows for problem-free screwing up to an angle of 30°.
- The handle made of impact-resistant polypropylene (PPN) enables easy and safe working.

Technical attributes

#	 	L ←—→	SW 		→ I I → I mm	Profile	i
	EAN	mm/inch	mm/inch	mm/inch	mm/inch		kg/lb
214-310	-699710	125	3	70	100	Hexagon	0,2
		4 15/16	1/8	2 3/4	3 15/16		0,441
214-410	-699895	125	4	70	100	Hexagon	0,2
		4 15/16	3/16	2 3/4	3 15/16		0,441
214-415	-699970	175	4	70	150	Hexagon	0,3
		6 7/8	3/16	2 3/4	5 7/8		0,662
214-510	-700034	125	5	90	100	Hexagon	0,5
		4 15/16	3/16	3 9/16	3 15/16		1,103
214-515	-700119	175	5	90	150	Hexagon	0,6
		6 7/8	3/16	3 9/16	5 7/8		1,323
214-615	-700294	175	6	90	150	Hexagon	0,7
		6 7/8	1/4	3 9/16	5 7/8		1,544
214-620	-700379	225	6	90	200	Hexagon	0,075
		8 7/8	1/4	3 9/16	7 7/8		0,165
214-815	-700454	175	8	90	150	Hexagon	0,1
		6 7/8	5/16	3 9/16	5 7/8		0,221
214-820	-700522	225	8	90	200	Hexagon	0,125
		8 7/8	5/16	3 9/16	7 7/8		0,276
214-910	-699550	225	10	110	200	Hexagon	0,21
		8 7/8	3/8	4 5/16	7 7/8		0,463

SERIES 222-230 HEXAGON SCREWDRIVER WITH T-HANDLE



The hexagon screwdrivers with T-handle from series 222-230 are used for operating screw heads in workshops, industry, and craftsmanship. Hardness and torque meet the ISO standard. Series 222-230 is affordable and compact.

Benefits

- The handle made of impact-resistant polypropylene (PPN) allows for easy and safe working.
- Various designs allow use with different hex sizes

#	 	L ←→	sw —		i→i mm	Profile	i
	EAN	mm/inch	mm/inch	mm/inch	mm/inch		kg/lb
222-090	-594695	125	2	70	100	Hexagon	0,0014
		4 15/16	1/16	2 3/4	3 15/16		0,003
22-100	-700782	125	2,5	70	100	Hexagon	0,0018
		4 15/16	1/16	2 3/4	3 15/16		0,004
23-121	-594855	125	3	70	100	Hexagon	0,02
		4 15/16	1/8	2 3/4	3 15/16		0,044
23-150	-594930	175	3	70	150	Hexagon	0,2
		6 7/8	1/8	2 3/4	5 7/8		0,441
23-200	-595012	225	3	70	200	Hexagon	0,03
		8 7/8	1/8	2 3/4	7 7/8		0,066
24-100	-700867	125	4	70	100	Hexagon	0,025
		4 15/16	3/16	2 3/4	3 15/16		0,055
24-150	-595272	175	4	70	150	Hexagon	0,03
		6 7/8	3/16	2 3/4	5 7/8	-	0,066
24-200	-595357	225	4	70	200	Hexagon	0,035
		8 7/8	3/16	2 3/4	7 7/8	-	0,077
25-101	-595432	132	5	90	100	Hexagon	0,05
		5 3/16	3/16	3 9/16	3 15/16	· ·	0,110
25-150	-595500	182	5	90	150	Hexagon	0,9
		7 3/16	3/16	3 9/16	5 7/8	3	1,985
25-200	-595685	232	5	90	200	Hexagon	0,06
		9 1/8	3/16	3 9/16	7 7/8	J	0,132
26-100	-595760	132	6	90	100	Hexagon	0,055
		5 3/16	1/4	3 9/16	3 15/16	. 3	0,121
26-150	-595845	182	6	90	150	Hexagon	0,07
		7 3/16	1/4	3 9/16	5 7/8	J.	0,154
26-200	-595920	232	6	90	200	Hexagon	0,082
		9 1/8	1/4	3 9/16	7 7/8		0,181

#	4021176	L ← ← →	SW		i → i → i → i → i → i → i → i → i → i →	Profile	
	EAN	mm/inch	mm/inch	mm/inch	mm/inch		kg/lb
228-100	-596002	132	8	90	100	Hexagon	0,09
		5 3/16	5/16	3 9/16	3 15/16		0,198
228-150	-596187	182	8	90	150	Hexagon	0,12
		7 3/16	5/16	3 9/16	5 7/8	-	0,265
228-200	-596262	232	8	90	200	Hexagon	0,125
		9 1/8	5/16	3 9/16	7 7/8		0,276
230-100	-596347	139	10	110	100	Hexagon	0,145
		5 1/2	3/8	4 5/16	3 15/16		0,320
230-200	-596422	239	10	110	200	Hexagon	0,2
		9 7/16	3/8	4 5/16	7 7/8		0,441

SERIES 236 HEXAGONAL SOCKET WRENCH WITH T-HANDLE



The hexagonal socket wrenches with T-handle of series 236 are used for operating screw heads in workshops, industry, and crafts. Hardness and torque comply with ISO standards. Series 236 is affordable and compact.

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Benefits

- The handle made of impact-resistant polypropylene (PPN) allows for easy and safe working.
- Various designs allow use with different hex sizes

#	4021176	SW 	L		i i mm	Profile	i
	EAN	mm/inch	mm/inch	mm/inch	mm/inch		kg/lb
236-050	-000974	5 3/16	270 10 5/8	110 4 5/16	230 9 1/16	Hexagon	0,14 0,309
236-055	-000981	5,5 3/16	270 10 5/8	110 4 5/16	230 9 1/16	Hexagon	0,11 0,243
236-060	-000998	6 1/4	270 10 5/8	110 4 5/16	230 9 1/16	Hexagon	0,115 0,254
236-070	-001063	7 1/4	270 10 5/8	110 4 5/16	230 9 1/16	Hexagon	0,15 0,331
236-080	-001070	8 5/16	270 10 5/8	110 4 5/16	230 9 1/16	Hexagon	0,14 0,309
236-090	-001087	9 3/8	270 10 5/8	110 4 5/16	230 9 1/16	Hexagon	0,155 0,342
236-100	-001094	10 3/8	270 10 5/8	110 4 5/16	230 9 1/16	Hexagon	0,145 0,320
236-110	-001100	11 7/16	270 10 5/8	110 4 5/16	230 9 1/16	Hexagon	0,19 0,419
236-120	-001117	12 1/2	270 10 5/8	110 4 5/16	230 9 1/16	Hexagon	0,215 0,474
236-130	-001124	13 1/2	270 10 5/8	110 4 5/16	230 9 1/16	Hexagon	0,19 0,419
236-140	-000530	14 9/16	270 10 5/8	110 4 5/16	230 9 1/16	Hexagon	0,18 0,397
236-150	-117399	15 9/16	270 10 5/8	110 4 5/16	230 9 1/16	Hexagon	0,19 0,419
236-160	-117405	16 5/8	270 10 5/8	110 4 5/16	230 9 1/16	Hexagon	0,21 0,463
236-170	-001131	17 11/16	270 10 5/8	110 4 5/16	230 9 1/16	Hexagon	0,215 0,474

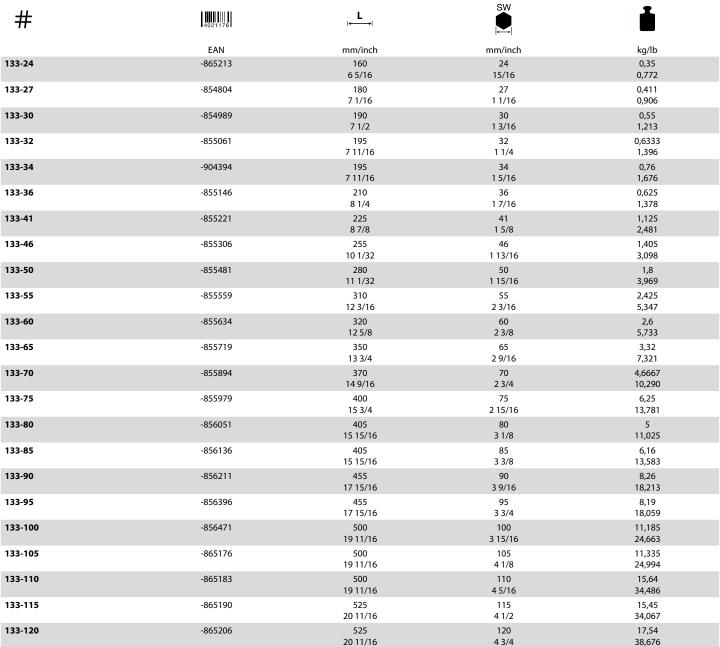
SERIES 133 STRIKE-WRENCH (DIN 133)



The impact wrenches (DIN 133) of series 133 are used in application areas such as commercial vehicles, pipe industry, tank cleaning, petrochemical industry, steel and mining, etc. They can easily operate hexagon or square screw heads or nuts. The series 133 is characterized by its variety of designs. Numerous sizes allow use with different screw sizes.

Benefits

- Up to a length of 525 mm made of forged carbon steel
- Until key width 120



SERIES 406 IMPACT RING WRENCH (DIN 7444)



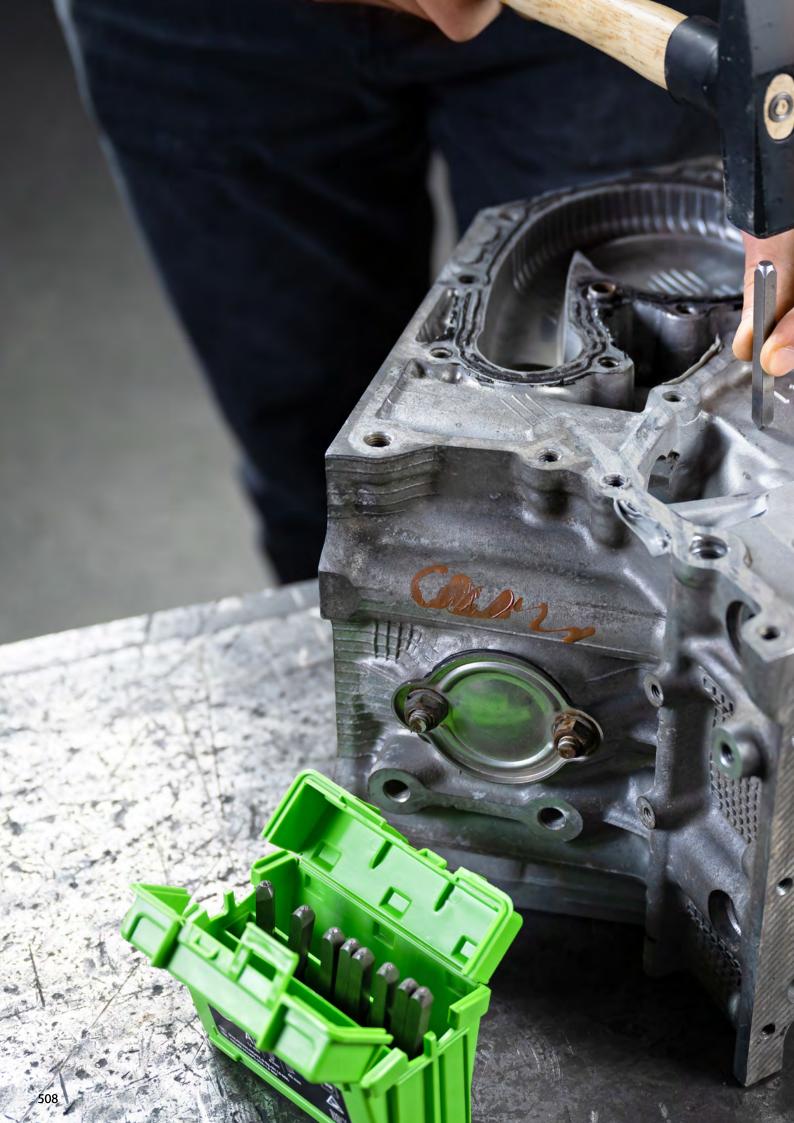
The impact rings (DIN 7444) of series 406 are used in applications such as commercial vehicles, pipe industry, tank cleaning, petrochemical industry, steel and mining, etc. They do not slip off as easily as open-end wrenches and allow for a greater force transmission; however, an open access to the screw is required. The series 406 stands out for its variety of designs. Numerous sizes enable use with different screw sizes.

Benefits

- Up to a length of 480 mm made of forged carbon steel
- Until key width 120

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#	4021176	L ←→	SW •	i
	EAN	mm/inch	mm/inch	kg/lb
06-24	-856549	160 6 5/16	24 15/16	0,23 0,507
06-27	-856624	180 7 1/16	27 1 1/16	0,3333 0,735
06-30	-856709	190 7 1/2	30 1 3/16	0,395 0,871
06-32	-856884	195 7 11/16	32 1 1/4	0,45 0,992
06-34	-904431	195	34	0,44
06-36	-856969	7 11/16 205	1 5/16 36	0,970 0,585
06-38	-865961	8 1/16 205	1 7/16 38	1,290 0,715
06.41	057041	8 1/16	1 1/2	1,577
06-41	-857041	225 8 7/8	41 1 5/8	0,795 1,753
06-46	-857126	240 9 7/16	46 1 13/16	1,75 3,859
06-50	-857201	250 9 13/16	50 1 15/16	1,2143 2,678
06-55	-857386	270 10 5/8	55 2 3/16	1,5833 3,491
06-60	-857461	270 10 5/8	60 2 3/8	1,9 4,190
06-65	-857539	290 11 7/16	65 2 9/16	1,83 4,035
06-70	-857614	320	70	3
06-75	-857799	12 5/8 325	2 3/4 75	6,615 3,8333
06-80	-857874	12 13/16 345	2 15/16 80	8,452 3,75
		13 9/16	3 1/8	8,269
06-85	-857959	360 14 3/16	85 3 3/8	3 6,615
06-90	-858031	400 15 3/4	90 3 9/16	4,78 10,540
06-95	-858116	400 15 3/4	95 3 3/4	5,115 11,279
06-100	-858291	400 15 3/4	100 3 15/16	6,58 14,509
06-105	-858376	435	105	6,595
06-110	-858451	17 1/8 435	4 1/8	14,542 8,985
06-115	-858529	17 1/8 435	4 5/16 115	19,812 7,655
		17 1/8	4 1/2	16,879
106-120	-858604	480 18 7/8	120 4 3/4	11,04 24,343







SIGN AND LABEL

Whether for marking workpieces, labeling boxes or parking spaces, for multi-digit engraving, or for sealing – KUKKO offers the perfect solution for every application.

The activity of Signing & Labeling includes:

- Impact numbers
- Impact letters
- Stencils
- Type holder sets
- Hand punch stamps
- Radial punch stamps
- Seal tools

For the task "Signing & labelling" KUKKO offers various tools in its range. This includes punch numbers and letters, impact stamps, and signing templates. The perfect solution is found for every application case.

ASSORTMENT OVERVIEW

LETTER PUNCHES SERIES 329 | 331



The 27-piece letter punch set is used for the problem-free marking of workpieces. The set has a standardized font according to DIN 1451 and a hardness of the engraving between 58 and 61 HRC.

IMPACT NUMBERS SERIES 328 | 330



The 9-piece standard punch set is used for easy marking of workpieces. The set features a standardized typeface according to DIN 1451 and a hardness of the engraving between 58 and 61 HRC.

HAND PUNCH STAMP SERIES 300



The hand punch stamps of the 300 series are used for the trouble-free marking of workpieces. Each hand punch stamp is manufactured individually according to your wishes

WHEEL PUNCH STAMP SERIES 332 | 333



The die-punch stamps of series 332 and 333 are particularly suitable for marking stainless steel due to their nickel-plated surface.

SEAL TOOLS SERIES 334



The side cutter seal pliers of the series 334 are used for cutting seal wire and sealing with just one tool in crafts, industry, and workshops.

SIGNING TEMPLATES SERIES 327



The professional letter stamping template set with plug-in mechanism of series 327 is used for marking shipping boxes, wooden boxes, parking spaces, etc. using marking paint and a marking roller.

The sets of letter punches and stamps consist of many small individual parts that must be securely stored. For ideal storage and the best possible overview, the signing tools are available in practical plastic boxes or cases.







331-012

333-015

APPLICATION EXAMPLES



Marking a steel plate with a punch stamp from series 333



Sign templates of the series 327 in use



Marking a punching tool with impact numbers of series 328

SERIES 328 STANDARD PUNCH SET, 9-PIECE



The 9-piece standard punch set of the 328 series is used for the trouble-free marking of workpieces with a strength of up to 900 N/mm² (27 HRC) in crafts, industry, and workshops. The set has a standardized font according to DIN 1451 and a hardness at the engraving between 58 and 61 HRC. The standard set of the 328 series is a classic, ideal for universal applications.

Benefits

- Special durability through production in the cold forming process, where the fiber structure of the material is not interrupted.
- To get a better overview, packed in our tried and tested, shatterproof plastic container.

#		L ←──→	Hardness		A <u>Ī</u>	
	EAN	mm/inch	HRC	mm/inch	mm/inch	kg/lb
328-101	-266141	65 2 9/16	58 - 61	6 1/4	1 1/32	0,17 0,375
328-1015	-926274	65 2 9/16	58 - 61	6 1/4	1,5 1/16	0,17 0,375
328-102	-688257	65 2 9/16	58 - 61	6 1/4	2 1/16	0,17 0,375
328-1025	-919320	65 2 9/16	58 - 61	6 1/4	2,5 1/8	0,17 0,375
328-103	-688332	65 2 9/16	58 - 61	6 1/4	3 1/8	0,17 0,375
328-104	-688417	65 2 9/16	58 - 61	7 1/4	4 3/16	0,245 0,540
328-105	-688585	65 2 9/16	58 - 61	8 5/16	5 3/16	0,295 0,650
328-106	-692520	70 2 3/4	58 - 61	9 3/8	6 1/4	0,41 0,904
328-107	-804565	75 2 15/16	58 - 61	10 3/8	7 1/4	0,535 1,180
328-108	-688660	75 2 15/16	58 - 61	11 7/16	8 5/16	0,64 1,411
328-110	-688745	80 3 1/8	58 - 61	12 1/2	10 3/8	0,835 1,841
328-112	-688820	80 3 1/8	58 - 61	14 9/16	12 1/2	1,135 2,503
328-115	-010072	90 3 9/16	58 - 61	16 5/8	15 9/16	1,6 3,528
328-120	-010096	100 3 15/16	58 - 61	20 13/16	20 13/16	2,755 6,075

SERIES 330-000 STAMP SET, EXTRA HEAVY QUALITY, SHINY NICKEL PLATED, 9-PIECE



The chrome-plated 9-piece impact number set with extra heavy quality of the series 330 is used for the problem-free marking of workpieces with a strength of up to 1300 N/mm² (42 HRC) in crafts, industry, and workshops. The set has a standardized letter design according to DIN 1451 and a hardness of the engraving between 58 and 61 HRC. The extra heavy impact numbers of the series 330 have a larger shaft, which increases the weight and significantly facilitates the striking into the workpiece. The nickel-plated surface does not leave any foreign rust and is particularly suitable for marking stainless steel.

Benefits

- Special durability through production using the cold forming process, where the fiber orientation of the material remains uninterrupted.
- Packed in our proven, shatterproof plastic container for overview.

#	4021176	L ←	Hardness		Α <u>Ī</u>	
	EAN	mm/inch	HRC	mm/inch	mm/inch	kg/lb
330-001	-224868	65 2 9/16	58 - 61	6 1/4	1 1/32	0,245 0,540
330-0015	-031718	65 2 9/16	58 - 61	6 1/4	1,5 1/16	0,245 0,540
330-002	-626617	70 2 3/4	58 - 61	7 1/4	2 1/16	0,24 0,529
330-0025	-224875	70 2 3/4	58 - 61	7 1/4	2,5 1/8	0,245 0,540
330-003	-626792	70 2 3/4	58 - 61	7 1/4	3 1/8	0,26 0,573
330-004	-626877	70 2 3/4	58 - 61	8 5/16	4 3/16	0,3 0,662
330-005	-626952	70 2 3/4	58 - 61	9 3/8	5 3/16	0,42 0,926
330-006	-627034	75 2 15/16	58 - 61	10 3/8	6 1/4	0,54 1,191
330-007	-799106	75 2 15/16	58 - 61	10 3/8	7 1/4	0,54 1,191
330-008	-627119	80 3 1/8	58 - 61	12 1/2	8 5/16	0,84 1,852
330-010	-627294	80 3 1/8	58 - 61	14 9/16	10 3/8	1,1135 2,455
330-012	-627379	90 3 9/16	58 - 61	16 5/8	12 1/2	1,665 3,671
330-015	-627454	90 3 9/16	58 - 61	16 5/8	15 9/16	1,645 3,627
330-020	-627522	100 3 15/16	58 - 61	20 13/16	20 13/16	2,745 6,053



Technical attributes

The 9-part impact number set with extra heavy quality of series 330 is used for easy marking of workpieces with a strength of up to 1300 N/mm² (42 HRC) in crafts, industry, and workshops. The set has a standardized font according to DIN 1451 and a hardness at the engraving between 58 and 61 HRC. The extra heavy impact numbers of series 330 feature a larger shaft, which increases the weight and significantly facilitates the striking into the workpiece.

Benefits

- Special durability through production using the cold forming process, where the fiber orientation of the material remains uninterrupted.
- · Packed in our proven, shatterproof plastic container for overview.

#	 	<mark>←</mark>	Hardness		A <u>Ī</u>	i
	EAN	mm/inch	HRC	mm/inch	mm/inch	kg/lb
330-501	-158200	70 2 3/4	58 - 61	7 1/4	1 1/32	0,245 0,540
330-5015	-158217	70 2 3/4	58 - 61	7 1/4	1,5 1/16	0,245 0,540
330-502	-928315	70 2 3/4	58 - 61	7 1/4	2 1/16	0,245 0,540
330-5025	-224899	75 2 15/16	58 - 61	8 5/16	2,5 1/8	0,295 0,650
330-503	-224905	75 2 15/16	58 - 61	8 5/16	3 1/8	0,3 0,662
330-504	-928346	75 2 15/16	58 - 61	9 3/8	4 3/16	0,41 0,904
330-505	-928353	75 2 15/16	58 - 61	10 3/8	5 3/16	0,535 1,180
330-506	-928360	80 3 1/8	58 - 61	12 1/2	6 1/4	0,835 1,841
330-508	-011314	80 3 1/8	58 - 61	14 9/16	8 5/16	1,13 2,492
330-510	-928384	90 3 9/16	58 - 61	16 5/8	10 3/8	1,5 3,308
330-512	-928391	95 3 3/4	58 - 61	18 11/16	12 1/2	2,2 4,851
330-515	-928407	95 3 3/4	58 - 61	18 11/16	15 9/16	2,195 4,840
330-520	-928414	100 3 15/16	58 - 61	20 13/16	20 13/16	2,755 6,075

SERIES 330-P LETTER PUNCH SET, EXTRA HEAVY QUALITY, DOTTED, 9-PIECE



Technical attributes

The dotted 9-piece impact number set with extra heavy quality from series 330 is used for problem-free marking of workpieces with a strength of up to 1300 N/mm² (42 HRC) in crafts, industry, and workshops. The set features a standardized font according to DIN 1451 and a hardness at the engraving between 58 and 61 HRC. The extra heavy impact numbers from series 330 have a larger shank, increasing the weight and significantly facilitating the striking into the workpiece. The dotted font reduces the notch effect of the struck symbol.

Benefits

- Special durability through production using the cold forming process, where the fiber orientation of the material remains uninterrupted.
- Packed in our proven, shatterproof plastic container for overview.

#		L ←—→	Hardness		ΑĪ	i
	EAN	mm/inch	HRC	mm/inch	mm/inch	kg/lb
330-003P	-928155	70 2 3/4	58 - 61	8 5/16	3 1/8	0,3 0,662
330-004P	-928179	70 2 3/4	58 - 61	9 3/8	4 3/16	0,405 0,893
330-005P	-928193	75 2 15/16	58 - 61	10 3/8	5 3/16	0,54 1,191
330-006P	-928216	80 3 1/8	58 - 61	12 1/2	6 1/4	0,835 1,841
330-008P	-010102	80 3 1/8	58 - 61	14 9/16	8 5/16	1,14 2,514
330-010P	-928254	90 3 9/16	58 - 61	16 5/8	10 3/8	1,67 3,682

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SERIES 330-R LETTER PUNCH SET, EXTRA HEAVY QUALITY, RIGHT-ENGRAVED, 9-PIECE



Technical attributes

The right-engraved 9-piece impact number set of extra heavy quality from the 330 series is used for easy marking of workpieces with a strength of up to 1300 N/mm² (42 HRC) in crafts, industry, and workshops. The set features a standardized letter design according to DIN 1451 and a hardness at the engraving between 58 and 61 HRC. The extra heavy impact numbers of the 330 series have a larger shaft, which increases the weight and significantly facilitates the driving into the workpiece. The impact numbers leave a mirror-image print, making it particularly easy to read in hard-to-reach places using a mirror.

Benefits

- Special durability through production using the cold forming process, where the fiber orientation of the material remains uninterrupted.
- To get a better overview, packed in our tried and tested, shatterproof plastic container.

#	 	L ←—→	Hardness		ΑĪ	i
	EAN	mm/inch	HRC	mm/inch	mm/inch	kg/lb
330-001R	-928124	70 2 3/4	58 - 61	7 1/4	1 1/32	0,245 0,540
330-002R	-801700	70 2 3/4	58 - 61	7 1/4	2 1/16	0,245 0,540
330-003R	-801717	75 2 15/16	58 - 61	8 5/16	3 1/8	0,295 0,650
330-004R	-801335	75 2 15/16	58 - 61	9 3/8	4 3/16	0,405 0,893
330-005R	-801724	75 2 15/16	58 - 61	10 3/8	5 3/16	0,53 1,169
330-006R	-802097	80 3 1/8	58 - 61	12 1/2	6 1/4	0,835 1,841
330-008R	-802110	80 3 1/8	58 - 61	14 9/16	8 5/16	1,13 2,492
330-010R	-011352	90 3 9/16	58 - 61	16 5/8	10 3/8	1,67 3,682

SERIES 330-V LETTER PUNCH SET, EXTRA HEAVY QUALITY, IMPACT HEAD-COATED, 9-PIECE



The impact-rated 9-piece impact number set with extra heavy quality from series 330 is used for easy marking of workpieces with a strength of up to 1300 N/mm² (42 HRC) in crafts, industry, and workshops. The set features a standardized typeface according to DIN 1451 and a hardness at the engraving between 58 and 61 HRC. The extra heavy impact numbers from series 330 have a larger shaft that increases the weight and significantly facilitates driving into the workpiece. The tempering of the impact head reduces wear.

Benefits

- Special durability through production using the cold forming process, where the fiber orientation of the material remains uninterrupted.
- Packed in our proven, shatterproof plastic container for overview.

#		L	Hardness		AŢ	i
	EAN	mm/inch	HRC	mm/inch	mm/inch	kg/lb
330-001V	-928131	70 2 3/4	58 - 61	7 1/4	1 1/32	0,26 0,573
330-002V	-928148	70 2 3/4	58 - 61	7 1/4	2 1/16	0,24 0,529
330-003V	-928162	70 2 3/4	58 - 61	8 5/16	3 1/8	0,3 0,662
330-004V	-928186	75 2 15/16	58 - 61	9 3/8	4 3/16	0,405 0,893
330-005V	-928209	75 2 15/16	58 - 61	10 3/8	5 3/16	0,535 1,180
30-006V	-928223	80 3 1/8	58 - 61	12 1/2	6 1/4	0,835 1,841
330-008V	-158194	80 3 1/8	58 - 61	14 9/16	8 5/16	1,13 2,492
330-010V	-928261	90 3 9/16	58 - 61	16 5/8	10 3/8	1,5 3,308
330-012V	-928285	95 3 3/4	58 - 61	18 11/16	12 1/2	2,2 4,851

SERIES 329 LETTER PUNCH SET, STANDARD, 27-PIECE



The 27-piece standard letter punch set of the 329 series is used for easy marking of workpieces with a strength of up to 900 N/mm² (27 HRC) in crafts, industry, and workshops. The set has a standardized font according to DIN 1451 and a hardness on the engraving between 58 and 61 HRC. The standard set of the 329 series is a classic, ideal for universal applications.

Benefits

- Special durability through production using the cold forming process, where the fiber orientation of the material remains uninterrupted.
- Packed in our proven, shatterproof plastic container for overview.

#	4021176	L	Hardness		A Ī	
	EAN	mm/inch	HRC	mm/inch	mm/inch	kg/lb
329-201	-266493	65 2 9/16	58 - 61	6 1/4	1 1/32	0,72 1,588
329-2015	-027605	65 2 9/16	58 - 61	6 1/4	1,5 1/16	0,51 1,125
329-202	-688905	65 2 9/16	58 - 61	6 1/4	2 1/16	0,505 1,114
329-2025	-919337	65 2 9/16	58 - 61	6 1/4	2,5 1/8	0,51 1,125
329-203	-692605	65 2 9/16	58 - 61	6 1/4	3 1/8	0,5 1,103
329-204	-689087	65 2 9/16	58 - 61	7 1/4	4 3/16	0,715 1,577
329-205	-689162	65 2 9/16	58 - 61	8 5/16	5 3/16	0,87 1,918
329-206	-689247	70 2 3/4	58 - 61	9 3/8	6 1/4	1,25 2,756
329-207	-804572	70 2 3/4	58 - 61	10 3/8	7 1/4	1,575 3,473
329-208	-689322	75 2 15/16	58 - 61	11 7/16	8 5/16	1,95 4,300
329-210	-689407	80 3 1/8	58 - 61	12 1/2	10 3/8	2,45 5,402
329-212	-689575	80 3 1/8	58 - 61	14 9/16	12 1/2	3,355 7,398
329-215	-002220	90 3 9/16	58 - 61	16 5/8	15 9/16	4,96 10,937
329-216	-039707	90 3 9/16	58 - 61	16 5/8	16 5/8	6,7 14,774
329-220	-002237	100 3 15/16	58 - 61	20 13/16	20 13/16	8,21 18,103

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SERIES 331-000 LETTER PUNCH SET, EXTRA HEAVY QUALITY, GLOSS NICKEL-PLATED, 27-PIECE



The bright nickel-plated 27-piece letter punch set of extra heavy quality from series 331 is used for the problem-free marking of workpieces with a strength of up to 1300 N/mm² (42 HRC) in crafts, industry, and workshops. The set features a standardized typeface according to DIN 1451 and a hardness at the engraving between 58 and 61 HRC. The extra heavy letter punches of series 331 have a larger shaft, which increases the weight and significantly facilitates the striking into the workpiece. The nickel-plated surface leaves no foreign rust and is particularly suitable for marking stainless steel.

Benefits

- Special durability through production using the cold forming process, where the fiber orientation of the material remains uninterrupted.
- Packed in our proven, shatterproof plastic container for overview.

		L	II-udu		ΑŦ	1
#	4021176	←──→	Hardness	Ţ	ΑĪ	
	EAN	mm/inch	HRC	mm/inch	mm/inch	kg/lb
331-001	-917012	65 2 9/16	58 - 61	6 1/4	1 1/32	0,72 1,588
331-002	-627607	70 2 3/4	58 - 61	7 1/4	2 1/16	0,72 1,588
331-003	-627782	70 2 3/4	58 - 61	7 1/4	3 1/8	0,72 1,588
331-004	-627867	70 2 3/4	58 - 61	8 5/16	4 3/16	0,875 1,929
331-005	-627942	70 2 3/4	58 - 61	9 3/8	5 3/16	1,2 2,646
331-006	-628024	75 2 15/16	58 - 61	10 3/8	6 1/4	1,58 3,484
331-007	-911065	75 2 15/16	58 - 61	10 3/8	7 1/4	1,6 3,528
331-008	-628109	80 3 1/8	58 - 61	12 1/2	8 5/16	2,48 5,468
331-010	-628284	80 3 1/8	58 - 61	14 9/16	10 3/8	3,375 7,442
331-012	-628369	90 3 9/16	58 - 61	16 5/8	12 1/2	4,92 10,849
331-015	-628444	90 3 9/16	58 - 61	16 5/8	15 9/16	4,95 10,915
331-020	-628512	100 3 15/16	58 - 61	20 13/16	20 13/16	8,2 18,081



The 27-piece letter punch set with extra heavy quality from series 331 is used for easy marking of workpieces with a strength of up to 1300 N/mm² (42 HRC) in craftsmanship, industry, and workshops. The set features a standardized font according to DIN 1451 and a hardness at the engraving between 58 and 61 HRC. The extra heavy letter punches from series 331 have a larger shaft, which increases the weight and significantly facilitates driving into the workpiece.

Benefits

- Special durability through production using the cold forming process, where the fiber orientation of the material remains uninterrupted.
- Packed in our proven, shatterproof plastic container for overview.

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#	4021176	L ←—→	Hardness		$\mathbf{A}^{\overline{\underline{1}}}$	i
	EAN	mm/inch	HRC	mm/inch	mm/inch	kg/lb
331-501	-928643	70 2 3/4	58 - 61	7 1/4	1 1/32	0,24 0,529
331-5015	-928650	70 2 3/4	58 - 61	7 1/4	1,5 1/16	0,715 1,577
331-502	-928667	70 2 3/4	58 - 61	7 1/4	2 1/16	0,72 1,588
331-5025	-928674	70 2 3/4	58 - 61	8 5/16	2,5 1/8	0,87 1,918
331-503	-928681	70 2 3/4	58 - 61	8 5/16	3 1/8	0,93 2,051
331-504	-928698	70 2 3/4	58 - 61	9 3/8	4 3/16	1,205 2,657
331-505	-928704	75 2 15/16	58 - 61	10 3/8	5 3/16	0,59 1,301
331-506	-928711	80 3 1/8	58 - 61	12 1/2	6 1/4	2,445 5,391
331-508	-928728	80 3 1/8	58 - 61	14 9/16	8 5/16	3,38 7,453
331-510	-928735	90 3 9/16	58 - 61	16 5/8	10 3/8	4,5 9,923
331-512	-928742	95 3 3/4	58 - 61	18 11/16	12 1/2	6,3 13,892
331-515	-928759	95 3 3/4	58 - 61	18 11/16	15 9/16	6,485 14,299
331-520	-928766	100 3 15/16	58 - 61	20 13/16	20 13/16	8,15 17,971

SERIES 331-K LETTER PUNCH SET, EXTRA HEAVY QUALITY, LOWERCASE, 27-PIECE



The 27-piece impact letter punch set with extra heavy quality and lower-case letters from series 331 is used for easy marking of workpieces with a strength of up to 1300 N/mm² (42 HRC) in craftsmanship, industry, and workshop. The set has a standardized font according to DIN 1451 and a hardness at the engraving between 58 and 61 HRC. The extra heavy impact letters of series 331 have a larger shaft, which increases the weight and significantly facilitates striking into the workpiece.

Benefits

- Special durability through production using the cold forming process, where the fiber orientation of the material remains uninterrupted.
- Packed in our proven, shatterproof plastic container for overview.

1

#		L ← →	Hardness		Α Ī	
	EAN	mm/inch	HRC	mm/inch	mm/inch	kg/lb
331-001K	-918439	70 2 3/4	58 - 61	7 1/4	1 1/32	0,78 1,720
331-002K	-915735	70 2 3/4	58 - 61	7 1/4	2 1/16	0,715 1,577
331-003K	-909284	75 2 15/16	58 - 61	8 5/16	3 1/8	0,885 1,951
331-004K	-916718	75 2 15/16	58 - 61	9 3/8	4 3/16	1,205 2,657
331-005K	-909291	75 2 15/16	58 - 61	10 3/8	5 3/16	1,57 3,462
331-006K	-918040	80 3 1/8	58 - 61	12 1/2	6 1/4	2,47 5,446
331-008K	-928551	80 3 1/8	58 - 61	14 9/16	8 5/16	3,365 7,420
331-010K	-928582	90 3 9/16	58 - 61	16 5/8	10 3/8	4,945 10,904
331-012K	-928612	95 3 3/4	58 - 61	18 11/16	12 1/2	6,3 13,892



The dotted, 27-piece letter punch set with extra heavy quality from series 331 is used for problem-free marking of workpieces with a strength of up to 1300 N/mm² (42 HRC) in crafts, industry, and workshops. The set features a standardized font according to DIN 1451 and a hardness at the engraving between 58 and 61 HRC. The extra heavy letter punches from series 331 have a larger shaft, which increases the weight and significantly facilitates driving them into the workpiece. The dotted font reduces the notching effect of the struck character.

Benefits

- Special durability through production using the cold forming process, where the fiber orientation of the material remains uninterrupted.
- Packed in our proven, shatterproof plastic container for overview.

#	 4021176	L	Hardness		ΑĪ	i
	EAN	mm/inch	HRC	mm/inch	mm/inch	kg/lb
331-003P	-006297	70 2 3/4	58 - 61	8 5/16	3 1/8	0,88 1,940
331-004P	-928490	70 2 3/4	58 - 61	9 3/8	4 3/16	1,2 2,646
331-005P	-928513	75 2 15/16	58 - 61	10 3/8	5 3/16	1,58 3,484
331-006P	-928537	80 3 1/8	58 - 61	12 1/2	6 1/4	2,48 5,468
331-008P	-928568	80 3 1/8	58 - 61	14 9/16	8 5/16	3,37 7,431
331-010P	-928599	90 3 9/16	58 - 61	16 5/8	10 3/8	4,94 10,893

1

SERIES 331-R LETTER PUNCH SET, HEAVY QUALITY, RIGHT-ENGRAVED, 27-PIECE



The right-engraved, 27-piece letter punch set of extra heavy quality from the series 331 is used for easy marking of workpieces with a strength of up to 1300 N/mm² (42 HRC) in craft, industry, and workshop. The set has a standardized font according to DIN 1451 and a hardness at the engraving between 58 and 61 HRC. The extra heavy letter punches of series 331 feature a larger shank that increases the weight and significantly facilitates striking into the workpiece. The letter punches leave a mirror-image imprint, making them particularly easy to read at hard-to-reach locations using a mirror.

Benefits

- Special durability through production using the cold forming process, where the fiber orientation of the material remains uninterrupted.
- Packed in our proven, shatterproof plastic container for overview.

#		<u>L</u> ←—→	Hardness		ĄŢ	i
	EAN	mm/inch	HRC	mm/inch	mm/inch	kg/lb
331-001R	-928445	70 2 3/4	58 - 61	7 1/4	1 1/32	0,71 1,566
331-002R	-918446	70 2 3/4	58 - 61	7 1/4	2 1/16	0,71 1,566
331-003R	-802127	75 2 15/16	58 - 61	8 5/16	3 1/8	0,87 1,918
331-004R	-802134	75 2 15/16	58 - 61	9 3/8	4 3/16	1,195 2,635
331-005R	-802141	75 2 15/16	58 - 61	10 3/8	5 3/16	1,57 3,462
331-006R	-811785	80 3 1/8	58 - 61	12 1/2	6 1/4	2,47 5,446
331-008R	-802158	80 3 1/8	58 - 61	14 9/16	8 5/16	3,365 7,420
331-010R	-918453	90 3 9/16	58 - 61	16 5/8	10 3/8	4,93 10,871

SERIES 331-V LETTER PUNCH SET, EXTRA HEAVY QUALITY, STRIKING HEAD COATED, 27-PIECE



The striking head tempered, 27-piece letter punch set of the series 331 is used for the trouble-free marking of workpieces with a strength of up to 1300 N/mm² (42 HRC) in crafts, industry, and workshop. The set has a standardized font according to DIN 1451 and a hardness at the engraving between 58 and 61 HRC. The extra heavy impact letters of the series 331 have a larger shaft, which increases the weight and significantly facilitates striking them into the workpiece. The tempering of the striking head reduces wear.

Benefits

- Special durability through production using the cold forming process, where the fiber orientation of the material remains uninterrupted.
- Packed in our proven, shatterproof plastic container for overview.

#		L ← —→	Hardness		ΑĪ	i
	EAN	mm/inch	HRC	mm/inch	mm/inch	kg/lb
331-001V	-006273	70 2 3/4	58 - 61	7 1/4	1 1/32	0,78 1,720
331-002V	-006280	70 2 3/4	58 - 61	7 1/4	2 1/16	0,24 0,529
331-003V	-006303	75 2 15/16	58 - 61	8 5/16	3 1/8	0,885 1,951
331-004V	-928506	75 2 15/16	58 - 61	9 3/8	4 3/16	1,205 2,657
331-005V	-928520	75 2 15/16	58 - 61	10 3/8	5 3/16	1,58 3,484
331-006V	-928544	85 3 3/8	58 - 61	12 1/2	6 1/4	2,244 4,948
331-008V	-928575	80 3 1/8	58 - 61	14 9/16	8 5/16	3,385 7,464
331-010V	-928605	90 3 9/16	58 - 61	16 5/8	10 3/8	4,5 9,923
331-012V	-928636	95 3 3/4	58 - 61	18 11/16	12 1/2	6,3 13,892

SERIES 300H HAND PUNCH STAMP



The hand punch stamps of series 300 are used for easy marking of workpieces with a strength of up to 900 N/mm² (27 HRC) in crafts, industry, and workshops. The stamps have a hardness of the engraving between 58 and 61 HRC. Each hand punch stamp is manufactured individually according to your wishes. Special characters, numbers, and letters can also be combined as needed and are available framed upon request.

Benefits

- Custom fabrication for personal use
- To enable a precise strike, the stamp is ground down on all sides up to the engraving.

#	4 021176	Hardness	Α Ī	i
	EAN	HRC	mm/inch	kg/lb
300H1010	-010065	58 - 61	10 3/8	0,33 0,728
300H0802	-039769	58 - 61	8 5/16	0,168 0,370
300H0801	-039752	58 - 61	8 5/16	0,175 0,386
300H0610	-039745	58 - 61	6 1/4	0,33 0,728
300H0609	-039738	58 - 61	6 1/4	0,33 0,728
300H0608	-039721	58 - 61	6 1/4	0,625 1,378
300H0607	-039714	58 - 61	6 1/4	0,33 0,728
300H0606	-039691	58 - 61	6 1/4	0,16 0,353
300H0605	-039684	58 - 61	6 1/4	0,33 0,728
300H0604	-039677	58 - 61	6 1/4	0,145 0,320
300H0603	-039660	58 - 61	6 1/4	0,23 0,507
300H0602	-039653	58 - 61	6 1/4	1,7 3,749
300H0601	-039646	58 - 61	6 1/4	0,33 0,728
300H0510	-039639	58 - 61	5 3/16	0,33 0,728
300H0508	-039608	58 - 61	5 3/16	0,33 0,728
300H0507	-039592	58 - 61	5 3/16	0,33 0,728
300H0803	-039776	58 - 61	8 5/16	0,12 0,265
300H0804	-039783	58 - 61	8 5/16	0,33 0,728
300H1009	-010058	58 - 61	10 3/8	0,33 0,728
300H1008	-010041	58 - 61	10 3/8	0,33 0,728
300H1007	-010034	58 - 61	10 3/8	0,33 0,728
300H1006	-010027	58 - 61	10 3/8	0,33 0,728

#	4021176	Hardness	$ar{ar{1}}$	
	EAN	HRC	mm/inch	kg/lb
300H1005	-010010	58 - 61	10 3/8	0,76 1,676
300H1004	-010003	58 - 61	10 3/8	0,33 0,728
300H1003	-009991	58 - 61	10 3/8	0,33 0,728
300H1002	-009984	58 - 61	10 3/8	0,29 0,639
300H1001	-009977	58 - 61	10 3/8	0,17 0,375
300H0810	-009960	58 - 61	8 5/16	0,33 0,728
300H0809	-009953	58 - 61	8 5/16	0,33 0,728
300H0808	-009946	58 - 61	8 5/16	0,33 0,728
300H0807	-039813	58 - 61	8 5/16	0,33 0,728
300H0806	-039806	58 - 61	8 5/16	0,16 0,353
300H0805	-039790	58 - 61	8 5/16	0,33 0,728
300H0506	-039585	58 - 61	5 3/16	0,31 0,684
300H0505	-039578	58 - 61	5 3/16	0,15 0,331
300Н0307	-057312	58 - 61	3 1/8	0,25 0,551
300Н0305	-057299	58 - 61	3 1/8	0,09 0,198
300H0306	-057305	58 - 61	3 1/8	0,23 0,507
300H0304	-057275	58 - 61	3 1/8	0,085 0,187
300H0303	-057268	58 - 61	3 1/8	1,115 2,459
300H0302	-057251	58 - 61	3 1/8	0,03 0,066
300H0301	-057244	58 - 61	3 1/8	0,33 0,728
300H0210	-057237	58 - 61	2 1/16	0,33 0,728
300H0209	-057220	58 - 61	2 1/16	0,115 0,254

SERIES 300H Technical attribute

#	4021176	Hardness	$ar{ar{1}}$	i
	EAN	HRC	mm/inch	kg/lb
300H0208	-057213	58 - 61	2 1/16	0,175 0,386
300H0207	-057206	58 - 61	2 1/16	0,33 0,728
300H0206	-057190	58 - 61	2 1/16	0,33 0,728
300H0205	-057183	58 - 61	2 1/16	0,055 0,121
300H0204	-057176	58 - 61	2 1/16	0,33 0,728
300H0203	-057169	58 - 61	2 1/16	0,33 0,728
300H0202	-057152	58 - 61	2 1/16	0,03 0,066
300H0308	-057329	58 - 61	3 1/8	0,33 0,728
300H0309	-057336	58 - 61	3 1/8	0,15 0,331
300H0504	-039561	58 - 61	5 3/16	0,185 0,408
300H0503	-039554	58 - 61	5 3/16	0,18 0,397
300H0502	-039530	58 - 61	5 3/16	0,07 0,154
300H0501	-039523	58 - 61	5 3/16	0,055 0,121
300H0410	-039516	58 - 61	4 3/16	0,33 0,728

#	4021176	Hardness	$\mathbf{A}\overline{\underline{1}}$	
	EAN	HRC	mm/inch	kg/lb
300H0409	-039509	58 - 61	4 3/16	0,16 0,353
300H0408	-057435	58 - 61	4 3/16	0,33 0,728
300H0407	-057428	58 - 61	4 3/16	0,12 0,265
300H0406	-057411	58 - 61	4 3/16	0,11 0,243
300H0405	-057404	58 - 61	4 3/16	0,225 0,496
300H0404	-057398	58 - 61	4 3/16	0,105 0,232
300H0403	-057381	58 - 61	4 3/16	0,105 0,232
300H0402	-057374	58 - 61	4 3/16	0,09 0,198
300H0401	-057350	58 - 61	4 3/16	0,025 0,055
300H0310	-057343	58 - 61	3 1/8	0,225 0,496
300H0201	-057145	58 - 61	2 1/16	0,33 0,728

SERIES 333-ST TYPES HOLDER SET



The 115-piece type holder set of series 333-ST is used for multi-digit engraving in the industry. The set has a hardness at the engraving between 58 and 60 HRC. The highly flexible engraving system with free combination of the various type stamps is capable of being universally ready for every application. The nickel-plated surface leaves no foreign rust and is particularly suitable for marking stainless steel. The type holder set includes 112 type stamps, one type holder, one hex key, and one pair of tweezers.

Benefits

- · Application-oriented assembly for universal use
- By storing it in the box, the completeness of the set can be easily overviewed.

Technical attributes

#		L ⊷→	mm	mm	Hardness	A <u>Ī</u>	
	EAN	mm/inch	mm/inch	mm/inch	HRC	mm/inch	kg/lb
333-015	-158255	100 3 15/16	45 1 3/4	18 11/16	58 - 60	1,5 1/32	0,97 2,139
333-020	-158262	100 3 15/16	45 1 3/4	18 11/16	58 - 60	2,0 1/16	0,985 2,172
333-025	-158279	100 3 15/16	45 1 3/4	18 11/16	58 - 60	2,5 1/16	1,115 2,459
333-030	-158286	100 3 15/16	45 1 3/4	18 11/16	58 - 60	3,0 1/8	1,125 2,481
333-040	-158293	125 4 15/16	56 2 3/16	23 7/8	58 - 60	4,0 3/16	1,89 4,167
333-050	-158309	125 4 15/16	56 2 3/16	23 7/8	58 - 60	5,0 3/16	1,925 4,245

SERIES 333 TYPES HOLDER



The type holder of series 333 is used together with types for multi-digit engraving in the industry. The types of series 333 have a hardness at the engraving between 58 and 60 HRC. The highly flexible engraving system with free combination of various type stamps is capable of being universally applicable for every application. The nickel-plated surface leaves no foreign rust and is particularly suitable for marking stainless steel.

Benefits

- · Application-oriented assembly for universal use
- By storing it in the box, the completeness of the set can be easily overviewed.

#	4 4021176	L ←—→	mm	iniii	A Ī	i
	EAN	mm/inch	mm/inch	mm/inch	mm/inch	kg/lb
333-000	-158224	98 3 7/8	45 1 3/4	18 11/16	1,5 - 2,0 1/32-1/16	0,335 0,739
333-001	-158231	98 3 7/8	45 1 3/4	18 11/16	2,5 - 3,0 1/16-1/8	0,33 0,728
333-002	-158248	122 4 13/16	56 2 3/16	23 7/8	4,0 - 5,0 3/16-3/16	0,63 1,389



The hand punch stamps with star of series 300 are used for the problem-free marking of workpieces with a strength of up to 900 N/mm² (27 HRC) in crafts, industry, and workshops. The stamps have a hardness at the engraving between 58 and 61 HRC. The stamps are particularly suitable for limiting texts and serial numbers on nameplates.

Benefits

- Text height adapted to the font image
- To enable a precisely accurate strike, the stamp is ground on all sides up to the engraving.

Technical attributes

#		←	Hardness		ĄŢ	i
	EAN	mm/inch	HRC	mm/inch	mm/inch	kg/lb
300H02S5	-222321	70 2 3/4	58 - 61	7 1/4	2 1/16	0,025 0,055
300H03S5	-222338	75 2 15/16	58 - 61	8 5/16	3 1/8	0,035 0,077
300H04S5	-222369	75 2 15/16	58 - 61	9 3/8	4 3/16	0,045 0,099
300H05S5	-222383	75 2 15/16	58 - 61	10 3/8	5 3/16	0,055 0,121
300H06S5	-023454	80 3 1/8	58 - 61	12 1/2	6 1/4	0,09 0,198
300H07S5	-222413	80 3 1/8	58 - 61	14 9/16	7 1/4	0,102 0,225
300H08S5	-222444	80 3 1/8	58 - 61	14 9/16	8 5/16	0,09 0,198
300H10S5	-023522	90 3 9/16	58 - 61	16 5/8	10 3/8	0,18 0,397

SERIES 300H-S6 HAND PUNCH STAMP, 6-STRIPE STAR



The hand punch stamps with 6-stripe star of the series 300 are used for easy marking of workpieces with a strength of up to 900 N/mm² (27 HRC) in craftsmanship, industry, and workshop. The stamps have a hardness at the engraving between 58 and 61 HRC. The stamps are particularly suitable for the delimitation of texts and serial numbers on nameplates.

Benefits

- Text height adjusted to the letter design
- To enable a precisely accurate strike, the stamp is ground on all sides up to the engraving.

Technical attributes

#	4621176	l ←	Hardness		$oldsymbol{A}\overline{oldsymbol{ol}}}}}}}$	
	EAN	mm/inch	HRC	mm/inch	mm/inch	kg/lb
300H02S6	-023379	70 2 3/4	58 - 61	7 1/4	2 1/16	0,025 0,055
300H03S6	-222345	75 2 15/16	58 - 61	8 5/16	3 1/8	0,025 0,055
300H04S6	-222376	75 2 15/16	58 - 61	9 3/8	4 3/16	0,045 0,099
300H05S6	-222390	75 2 15/16	58 - 61	10 3/8	5 3/16	0,06 0,132
300H06S6	-222406	80 3 1/8	58 - 61	12 1/2	6 1/4	0,09 0,198
300H07S6	-222437	80 3 1/8	58 - 61	14 9/16	7 1/4	0,12 0,265
300H08S6	-222451	80 3 1/8	58 - 61	14 9/16	8 5/16	0,12 0,265
300H10S6	-222468	90 3 9/16	58 - 61	16 5/8	10 3/8	0,18 0,397

1

SERIES 300SZ HAND PUNCH STAMP, SPECIAL CHARACTERS



Technical attributes

The hand punch stamps with special characters from the 300 series are used for easy marking of workpieces with a strength of up to 900 N/mm² (27 HRC) in trades, industry, and workshops. The stamps have a hardness at the engraving between 58 and 61 HRC. Special characters such as grounding symbols, diameter symbols, etc. can be easily ordered with a fixed item number.

Benefits

- Text height adjusted to the letter design
- To enable a precisely accurate strike, the stamp is ground on all sides up to the engraving.

#		ı ←	Hardness		$oldsymbol{A}oldsymbol{\overline{I}}$	
	EAN	mm/inch	HRC	↔ mm/inch	mm/inch	kg/lb
300SZ0201	-464202	70 2 3/4	58 - 61	7 1/4	2 1/16	0,025 0,055
300SZ0202	-464219	70	58 - 61	7	2	0,33
300SZ0203	-464226	2 3/4	58 - 61	1/4 7	1/16 2	0,728 0,03
300SZ0204	-464233	2 3/4	58 - 61	1/4 7	1/16	0,066 0,33
300SZ0205	-464240	2 3/4 70	58 - 61	1/4 7	1/16 2	0,728 0,33
300SZ0206	-464257	2 3/4 70	58 - 61	1/4 7	1/16 2	0,728 0,33
300SZ0207	-464264	2 3/4 70	58 - 61	1/4 7	1/16 2	0,728 0,33
		2 3/4		1/4	1/16	0,728
300SZ0208	-464271	70 2 3/4	58 - 61	7 1/4	2 1/16	0,33 0,728
300SZ0209	-464288	70 2 3/4	58 - 61	7 1/4	2 1/16	0,33 0,728
300SZ0210	-464295	70 2 3/4	58 - 61	7 1/4	2 1/16	0,02 0,044
300SZ0301	-464301	75 2 15/16	58 - 61	8 5/16	3 1/8	0,33 0,728
300SZ0302	-464318	75	58 - 61	8	3	0,03
300SZ0303	-464325	2 15/16 75	58 - 61	5/16 8	1/8 3 1/8	0,066 0,03
300SZ0304	-464332	2 15/16 75	58 - 61	5/16 8	1/8 3	0,066 0,03
300SZ0305	-464349	2 15/16 75	58 - 61	5/16 8	1/8	0,066 0,04
300SZ0306	-464356	2 15/16 75	58 - 61	5/16 8	1/8 3	0,088 0,03
300SZ0307	-464363	2 15/16 75	58 - 61	5/16 8	1/8 3	0,066 0,33
		2 15/16		5/16	1/8	0,728
300SZ0308	-464370	75 2 15/16	58 - 61	8 5/16	3 1/8	0,03 0,066
300SZ0309	-464387	75 2 15/16	58 - 61	8 5/16	3 1/8	0,03 0,066
300SZ0310	-464394	75 2 15/16	58 - 61	8 5/16	3 1/8	0,33 0,728
300SZ0311	-568672	75 2 15/16	58 - 61	8 5/16	3 1/8	0,03 0,066
300SZ0401	-464400	75 2 15/16	58 - 61	9 3/8	4 3/16	0,33 0,728
300SZ0402	-464417	75 2 15/16	58 - 61	9 3/8	4 3/16	0,728 0,33 0,728
300SZ0403	-464424	75 2 15/16	58 - 61	9 3/8	4 3/16	0,728 0,045 0,099
300SZ0404	-464431	75	58 - 61	9	4	0,045
300SZ0405	-464448	2 15/16 75	58 - 61	3/8 9	3/16 4	0,099 0,045
300SZ0406	-464455	2 15/16 75	58 - 61	3/8 9	3/16	0,099 0,33
300SZ0407	-464462	2 15/16 75	58 - 61	3/8 9	3/16 4	0,728 0,33
300SZ0408	-464479	2 15/16 75	58 - 61	3/8 9	3/16 4	0,728 0,33
		2 15/16		3/8	3/16	0,728

#	 	L ←→	Hardness		ΑĪ	i
	EAN	mm/inch	HRC	mm/inch	mm/inch	kg/lb
300SZ0409	-464486	75 2 15/16	58 - 61	9 3/8	4 3/16	0,045 0,099
300SZ0410	-464493	75 2 15/16	58 - 61	9 3/8	4 3/16	0,045 0,099
300SZ0411	-568689	75 2 15/16	58 - 61	9 3/8	4 3/16	0,04 0,088
300SZ0501	-464509	70 2 3/4	58 - 61	10 3/8	5 3/16	0,055 0,121
300SZ0502	-464516	70 2 3/4	58 - 61	10 3/8	5 3/16	0,055 0,121
300SZ0503	-464523	70	58 - 61	10 3/8	5	0,055
300SZ0504	-464530	2 3/4	58 - 61	10	3/16 5	0,121 0,055
300SZ0505	-464547	2 3/4 70	58 - 61	3/8 10	3/16 5	0,121 0,055
300SZ0506	-464554	2 3/4 70	58 - 61	3/8 10	3/16 5	0,121 0,055
300SZ0507	-464561	2 3/4 70	58 - 61	3/8 10	3/16 5	0,121 0,045
300SZ0508	-464578	2 3/4 70	58 - 61	3/8 10	3/16 5	0,099 0,055
		2 3/4		3/8	3/16	0,121
300SZ0509	-464585	70 2 3/4	58 - 61	10 3/8	5 3/16	0,045 0,099
300SZ0510	-464592	70 2 3/4	58 - 61	10 3/8	5 3/16	0,055 0,121
300SZ0511	-568696	70 2 3/4	58 - 61	10 3/8	5 3/16	0,055 0,121
300SZ0512	-005931	70 2 3/4	58 - 61	10 3/8	5 3/16	0,055 0,121
300SZ0601	-464608	80 3 1/8	58 - 61	12 1/2	6 1/4	0,04 0,088
300SZ0602	-464615	80 3 1/8	58 - 61	12 1/2	6 1/4	0,33
300SZ0603	-464622	80	58 - 61	12	6	0,728 0,04
300SZ0604	-464639	3 1/8 80	58 - 61	1/2 12	1/4 6	0,088 0,04
300SZ0605	-464646	3 1/8 80	58 - 61	1/2 12	1/4 6	0,088 0,04
300SZ0606	-464653	3 1/8 80	58 - 61	1/2 12	1/4 6	0,088 0,33
300SZ0607	-464660	3 1/8 80	58 - 61	1/2 12	1/4 6	0,728 0,33
		3 1/8		1/2	1/4	0,728
300SZ0608	-464677	80 3 1/8	58 - 61	12 1/2	6 1/4	0,04 0,088
300SZ0609	-464684	80 3 1/8	58 - 61	12 1/2	6 1/4	0,33 0,728
300SZ0610	-464691	80 3 1/8	58 - 61	12 1/2	6 1/4	0,04 0,088
300SZ0611	-568702	80 3 1/8	58 - 61	12 1/2	6 1/4	0,09 0,198
300SZ0612	-005948	80 3 1/8	58 - 61	12 1/2	6 1/4	0,085 0,187
300SZ0801	-464707	80 3 1/8	58 - 61	14 9/16	8 5/16	0,115 0,254
300SZ0802	-464714	80 3 1/8	58 - 61	14 9/16	8	0,115
300SZ0803	-464721	80	58 - 61	14	5/16 8	0,254 0,12
300SZ0804	-464738	3 1/8 80	58 - 61	9/16 14	5/16 8	0,265 0,1154
300SZ0805	-464745	3 1/8 80	58 - 61	9/16 14	5/16 8	0,254 0,18
300SZ0806	-464752	3 1/8 80	58 - 61	9/16 14	5/16 8	0,397 0,11
300SZ0807	-464769	3 1/8 80	58 - 61	9/16 14	5/16 8	0,243 0,115
300SZ0808	-464776	3 1/8 80	58 - 61	9/16 14	5/16 8	0,254 0,11
		3 1/8		9/16	5/16	0,243
300SZ0809	-464783	80 3 1/8	58 - 61	14 9/16	8 5/16	0,33 0,728
300SZ0810	-464790	80 3 1/8	58 - 61	14 9/16	8 5/16	0,33 0,728
300SZ0811	-568719	80 3 1/8	58 - 61	14 9/16	8 5/16	0,11 0,243
300SZ0812	-005955	90 3 9/16	58 - 61	16 5/8	8 5/16	0,18 0,397



The impact marking stamp device of series 332 is used for problem-free marking of number sequences in workpieces with a strength of up to 1300 N/mm² in crafts, industry, and workshops. The set has a hardness at the engraving between 58 and 61 HRC. The impact marking stamps of series 332 are particularly suitable for marking stainless steel due to their nickel-plated surface.

Benefits

- The visible edge has been ground, allowing for the reading of the set numbers.
- The space-saving design allows for use in narrow installation situations.

Technical attributes

#		L ←—→	Hardness	ΑĪ	
	EAN	mm/inch	HRC	mm/inch	kg/lb
332-352	-928803	150 5 7/8	58 - 61	2 1/16	0,53 1,169
332-353	-928810	150 5 7/8	58 - 61	3 1/8	0,645 1,422
332-354	-928827	150 5 7/8	58 - 61	4 3/16	0,53 1,169

SERIES 332-110 WHEEL STAMPING DIE, NUMBERS



The impact stamp for digits of the series 332 is used together with a stamp holder for easy marking of number sequences on workpieces with a strength of up to 1300 N/mm² in crafts, industry, and workshops. The set has a hardness at the engraving between 58 and 61 HRC. The impact stamps of the series 332 are particularly suitable for marking stainless steel due to their nickel-plated surface.

Benefits

- The visible edge, after being ground, allows for the readout of the set numbers.
- Durable due to robust and high-quality material

Technical attributes

#		≥mm	Hardness	•	$ar{ar{ar{ar{ar{ar{ar{ar{ar{ar{$	
	EAN	mm/inch	HRC	mm/inch	mm/inch	kg/lb
332-102	-918804	73 2 7/8	58 - 61	10 3/8	2 1/16	0,18 0,397
332-103	-918811	73 2 7/8	58 - 61	10 3/8	3 1/8	0,185 0,408
332-104	-804695	73 2 7/8	58 - 61	10 3/8	4 3/16	0,215 0,474
332-105	-918828	73 2 7/8	58 - 61	10 3/8	5 3/16	0,25 0,551
332-106	-803742	73 2 7/8	58 - 61	10 3/8	6 1/4	0,28 0,617
332-108	-918835	73 2 7/8	58 - 61	10 3/8	8 5/16	0,345 0,761
332-110	-803308	73 2 7/8	58 - 61	10 3/8	10 3/8	0,41 0,904
332-112	-924690	73 2 7/8	58 - 61	10 3/8	12 1/2	0,47 1,036

1

SERIES 332-120 WHEEL PUNCH STAMP, LETTERS



The letter punch for the 332 series is used together with a punch holder for the easy marking of number sequences on workpieces with a strength of up to 1300 N/mm² in craft, industry, and workshop. The set has a hardness at the engraving between 58 and 61 HRC. The letter punches of the 332 series are particularly suitable for marking stainless steel due to their nickel-plated surface.

Benefits

- The visible edge, after being ground, allows for the readout of the set numbers.
- · Durable due to robust and high-quality material

Technical attributes

#		€ mm	•	Hardness	ΑĪ	i
	EAN	mm/inch	mm/inch	HRC	mm/inch	kg/lb
332-122	-918859	73 2 7/8	10 3/8	58 - 61	2 1/16	0 0,000
332-123	-918866	73 2 7/8	10 3/8	58 - 61	3 1/8	0,63 1,389
332-124	-918873	73 2 7/8	10 3/8	58 - 61	4 3/16	0,65 1,433
332-125	-918880	73 2 7/8	10 3/8	58 - 61	5 3/16	0,74 1,632
332-126	-918897	73 2 7/8	10 3/8	58 - 61	6 1/4	0,835 1,841
332-128	-918903	73 2 7/8	10 3/8	58 - 61	8 5/16	0,39 0,860
332-130	-918910	73 2 7/8	10 3/8	58 - 61	10 3/8	1,16 2,558
332-132	-924706	73 2 7/8	10 3/8	58 - 61	12 1/2	1,14 2,514

SERIES 332-100 HOLDER FOR WHEEL STAMPS



The holder for impact stamps of the series 332 is used as a universal tool holder for impact stamps in crafts, industry, and workshops. Thanks to the supplied distance sleeves, the holder is able to accommodate various sizes of impact stamps. The impact stamps of the series 332 are particularly suitable for marking stainless steel due to their nickel-plated surface.

Benefits

- The ergonomic shaft enables particularly safe working.
- Durable due to robust and high-quality material

#		L ←—→	$\mathbf{A}ar{\underline{\mathbb{I}}}$	i
	EAN	mm/inch	mm/inch	kg/lb
332-100	-997274	183 7 3/16	2-6 1/16-1/4	1,405 3,098

SERIES 327-B PROFESSIONAL SIGN TEMPLATE SET **LETTERS WITH PLUG MECHANISM**





The professional lettering template set with plug-in mechanism of the series 327 is used for marking shipping boxes, wooden crates, parking spaces, etc. with marking paint and marking rollers in crafts, industry, and workshops. The set features a standardized font according to DIN 1451 and is reusable. Thanks to the innovative plug-in system, connecting multiple characters is no problem.

Benefits

- · Made of very durable and flexible special sheet metal.
- Up to a size of 100 mm, the signing templates are bent up on the bottom side, making it easy to pick them up without smudging the color.

Technical attributes

#		${\sf A} ar{\underline{!}}$	i	i
	EAN	mm/inch	mm/inch	kg/lb
327-020-B	-006075	20 13/16	0,15	0,08 0,176
327-040-B	-006099	40 1 9/16	0,15	0,11 0,243
327-050-В	-006129	50 1 15/16	0,15	0,15 0,331
327-070-В	-006204	70 2 3/4	0,15	0,215 0,474
327-100-B	-006419	100 3 15/16	0,15	0,48 1,058
327-150-B	-006594	150 5 7/8	0,3 1/64	0,91 2,007
327-200-B	-006624	200 7 7/8	0,3 1/64	1,415 3,120
327-300-В	-006921	300 11 13/16	0,3 1/64	3,3 7,277

SERIES 327-Z PROFESSIONAL SIGN TEMPLATES SET UMBERS WITH PLUG MECHANISM





Technical attributes

The professional sign stamping template set numbers with plug-in mechanism of series 327 is used for marking shipping boxes, wooden crates, parking spaces, etc. with marking paint and marking roller in crafts, industry, and workshops. The set has a standardized font according to DIN 1451 and is reusable. Thanks to the innovative plug-in system, chaining multiple characters is no problem.

Benefits

- Made of very resilient and flexible special sheet metal
- Up to a size of 100 mm, the marking templates are bent up on the underside, making it easy to lift them without smudging the paint.

#		Α <u>Ī</u>	i	i
	EAN	mm/inch	mm/inch	kg/lb
327-020-Z	-006082	20 13/16	0,15	0,35 0,772
327-040-Z	-006105	40 1 9/16	0,15	0,5 1,103
327-050-Z	-006136	50 1 15/16	0,15	0,65 1,433
327-070-Z	-006389	70 2 3/4	0,15	0,1 0,221
327-100-Z	-006440	100 3 15/16	0,15	0,17 0,375
327-150-Z	-006600	150 5 7/8	0,3 1/64	0,34 0,750
327-200-Z	-006907	200 7 7/8	0,3 1/64	1,8 3,969
327-300-Z	-006945	300 11 13/16	0,3 1/64	1,8 3,969

SERIES 334-900 UNIVERSAL SEAL PLIERS



The wire cutting and sealing pliers of series 334 are used for cutting seal wire and sealing with just one tool in crafts, industry, and workshops. The precisely manufactured combination of sealing pliers and wire cutters is capable of combining multiple tasks into a single tool, thereby ensuring a faster workflow.

Benefits

- Time savings, as the tool does not need to be switched between work steps
- The interchangeable stamp is available with your desired engraving.

Technical attributes

#	4021176	L	i
	EAN	mm/inch	kg/lb
334-900	-928926	155 6 1/8	0,165 0,364

SERIES 334-910 LEAD SEAL PLIERS



The lead seal pliers of the series 334 are used for universal sealing in crafts, industry, and workshops. The lead seal pliers, available in various sizes, can seal workpieces universally and are an all-rounder in their application.

Benefits

- Easy operation by translating the lever
- The interchangeable stamp is available from us in your desired engraving

#		L ←──→	Ø	i
	EAN	mm/inch	mm/inch	kg/lb
334-908	-928933	130 5 1/8	8 5/16	0,245 0,540
334-910	-928940	130 5 1/8	10 3/8	0,49 1,080

SERIES 334S STAMP FOR SEAL PLIERS



The stamps for seal pliers of the series 334 are replacement stamps for marking seal pliers of the series 334. Upon request, we can manufacture custom seal stamps with your logo or a unique embossing.

Technical attributes

#	4021176	Ø	i
	EAN	mm/inch	kg/lb
334-918	-928957	8 5/16	0,0001 0,000
334S918	-121280	8 5/16	0,001 0,002
334-920	-928964	10 3/8	0,005 0,011

SERIES 334-928 SEALS



The lead seals of series 334 are used for universal sealing in crafts, industry, and workshops. Thanks to the lead seals available in different sizes, workpieces can be universally sealed.

Benefits

- Flexible and mobile usable
- Especially suitable for small products like fuel canisters

#	4021176	Ø	i
	EAN	mm/inch	kg/lb
334-928	-998394	8 5/16	1,5 3,308
334-930	-334932	10 3/8	1,02 2,249

SERIES 334-929 GALVANIZED SEAL WIRE, ON SPOOL



The galvanized seal wire, on spool, of the series 334 is used for universal sealing in crafts, industry, and workshops. The seal wire consists of a core and outer cord, and the galvanized iron ensures a good price-performance ratio when sealing.

Benefits

- · Flexible and mobile use
- · Common execution enables universal application

Technical attributes

#	4021176	L ←──→		i
	EAN	mm/inch	mm/inch	kg/lb
334-929	-998400	200.000 7874 1/64	0,5 x 0,3 1/64 x 1/64	0,53 1,169
334-931	-334314	400.000 15748 1/32	0,5 x 0,3 1/64 x 1/64	1,035 2,282

SERIES 334-933 ZINC-PLATED PLOMBING WIRE IN BUNDLES



The galvanized sealing wire, in bundles, of the series 334 is used for universal sealing in crafts, industry, and workshops. The sealing wire consists of a core and outer cord, and the galvanized iron provides a good price-performance ratio for sealing. The wires are conveniently packaged in bundles of uniform length.

Benefits

- Flexible and mobile usable
- The common execution enables universal application.

#	4021176	L ←──→	E	i
	EAN	mm/inch	mm/inch	kg/lb
334-933	-334338	120 4 3/4	0,5 x 0,3 1/64 x 1/64	0 0,000
334-934	-334345	180 7 1/16	0,5 x 0,3 1/64 x 1/64	0,47 1,036

SERIES 334-030 TOOL TAGS



The tool tags of the 334 series are used for marking and labeling tools in trades, industry, and workshops. The tool tags made of brass or aluminum feature an embossed pearl edge and a hole for connection with the workpiece to be marked. Upon request, the tags can also be labeled with your individual symbols.

Benefits

- Simple brands for a diverse application
- Labeling helps to organize tools and prevent them from being mixed up

#	4021176	Ø	i
	EAN	mm/inch	kg/lb
334-030	-334307	27 1 1/16	0,0095 0,021
334-031	-143305	27 1 1/16	0,16 0,353







TESTING & MEASURING

For testing switching pressures, intervals, gradations, control and safety functions, tightness and pressure losses of compressed air brake systems, or for checking the start of delivery in diesel engines – KUKKO offers the perfect solution for every application.

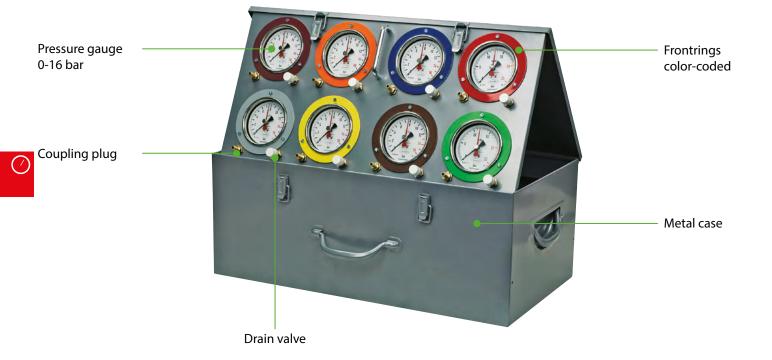
The activity Testing & Measuring includes:

- Pneumatic testing case
- Start of delivery tester

DEPLOYMENT

The Pneumatic testing case of the series W-6050 is used for testing switching pressures, intervals, gradations, control and safety functions, tightness, and pressure losses of compressed air brake systems up to 4 circuits and others in industry and workshop. In buses, the case is used to test all air suspension systems and door actuation devices, as well as control or servo devices on special vehicles.

ASSEMBLY OF A PRESS CASE



APPLICATION EXAMPLES



Connecting a pneumatic hose to the coupling socket



Interior view of the test case

SERIES W-6050 PNEUMATIC TEST CASE



The Pneumatic test cases of the series W-6050 are used for testing switching pressures, intervals, gradations, control and safety functions, tightness, and pressure losses of compressed air brake systems with up to 4 circuits, as well as other applications in industry and workshops. For buses, the case is used to test all air suspension systems and door actuation devices, as well as control or servo devices on special vehicles.

Benefits

- Swingable instrument panel with built-in pressure gauges, using hinges
- · Quick coupling connections on the front of the control panel

Technical attributes

#	4021176				\bigcirc	I 0 5 10	\bigcirc	
	EAN	mm/inch	mm/inch	mm/inch	mm/inch	bar	bar	kg/lb
W-6050/6	-130265	645 25 3/8	355 13 1	250 9 13/16	100 3 15/16	0,1	16	19 41,895
W-6050/8	-605084	645 25 3/8	355 13 1	250 9 13/16	100 3 15/16	0,5	25	23 50,715

SERIES W-6050/9 SPECIAL MANOMETER 0-16 BAR



The special pressure gauges are accessories for the pneumatic testing case W-6050. They are equipped with a rubber protective cap, connecting nipple, and safety chain for quick coupling and securing with the test hoses.

Technical attributes

#	4021176	$\bigodot_{ \longleftarrow }$	[] 0 5 10	\bigcirc	i
	EAN	mm/inch	bar	bar	kg/lb
W-6050/9	-605091	100 3 15/16	0,1	16	0,84 1,852

SERIES W-3209 START-UP TESTER



The start-up tester of the series W-3209 is used for testing the start-up of diesel engines in crafts, industry, and workshops. It has a set of connections for threads M12x1.5 and M14x1.5.

Benefits

• Easy setting by adjusting to the zero point of the motor











STORAGE & PRESENTATION

For clear storage, safe transport, or sales-boosting presentation of tools – KUKKO offers the perfect solution for every application.

The activities related to storage & presentation include:

- Empty cases
- KUKKO-Cube workshop carts
- Workbenches
- Tool cabinets
- Compartment cabinets with power connection
- Wall boards
- Sales displays

DEPLOYMENT

The king class of puller tools demands an optimal and unique storage solution. From the compact To-GO solution in the case set to fixed installed walls, KUKKO offers the full range of transport and presentation of pullers and other accessories.

ASSEMBLY OF A CUBE WORKSHOP TROLLEY



SERIES 20-ST



The sales display is indeed the smallest form of sales presentation, but in its compactness, it has been the eye-catcher at every counter for over 100 years. KUKKO is regarded as the first tool manufacturer to present its products for promotional purposes on a sales stand.

SERIES K-2030





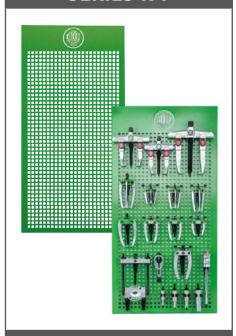
One of KUKKO's bestsellers is the portable, fully equipped case sets in a portable medium size that contain all the necessary tools to solve the desired repair case application or industry-oriented. The cases are equipped with a special foam that completely embeds the tools, ensuring safe storage.

SERIES EVLW



The massive sales wall presents the KUK-KO tools in a maximum range of selection and product variety. The stocking of the wall is done individually based on the application focus or industry orientation. Thanks to generous placement options, the entire tool range can be presented opulently and simultaneously efficiently.

SERIES WT



The attention-grabbing wall panel in the unmistakable KUKKO green is the eye-catcher in every workshop. Like a modern dashboard, it offers a compactly assembled range of tools and accessories in a manageable space.

SERIES K-CUBE



The KUKKO-Cube workshop trolley is the smart solution for all tasks that pose special challenges for transport and storage. With its mobility, it provides everything needed for on-site use in the quickest way possible. Extendable drawers offer space for a total of four L-Boxx cases.

SERIES X-MW



The mobile workbench from KUKKO combines the advantages of a clear and safe storage solution with the provision of a multifunctional workspace for everyday needs. The workbench features five heavy-duty drawers.



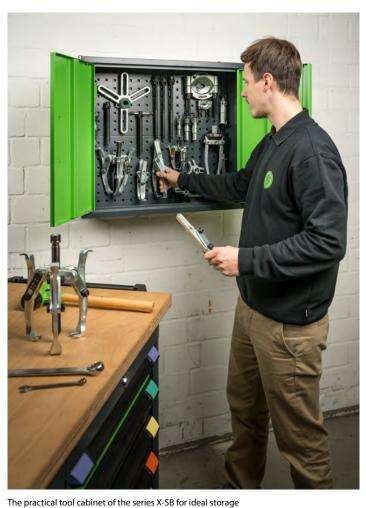
APPLICATION EXAMPLES



KUKKO Cube with pull-out trays



The mobile workbench of the X-MW series





Luggage sets guarantee protection of the tools and ideal storage.

SERIES K-L-BOXX K-L-BOXX (EMPTY BOX FROM SORTIMO)



The portable KUKKO empty box of the K-L-BOXX series from Sortimo offers enough space for a range of tools. For ideal handling and transport, the case is equipped with 2 handles. Particularly practical is the click system, which allows any number of L-BOXXes to be stacked and subsequently transported. With just the push of a button, the L-BOXXes can be quickly separated from each other. Thus, the cases are the perfect mobility and storage solution for craftwork, workshops, and industry.

Benefits

- Integrable and combinable with all common Sortimo L-Boxxes
- Thanks to a click system, the suitcases can be connected to each other and thus transported more easily.

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Technical attributes

#					max. kg	i
	EAN	mm/inch	mm/inch	mm/inch	kg	kg/lb
K-L-BOXX-L-136	-023132	442 17 3/8	357 14 1/16	151 5 15/16	25	2,66 5,865

SERIES K-L-BOXX K-L-BOXX (EMPTY BOX FROM SORTIMO)



The portable KUKKO empty box of the K-L-BOXX series from Sortimo offers enough space for a range of tools. For ideal handling and transport, the case is equipped with 2 handles. Particularly practical is the click system, which allows any number of L-BOXXes to be stacked and subsequently transported. With just the push of a button, the L-BOXXes can be quickly separated from each other. Thus, the cases are the perfect mobility and storage solution for craftwork, workshops, and industry.

Benefits

- Integrable and combinable with all common Sortimo L-Boxxes
- Thanks to a click system, the suitcases can be connected to each other and thus transported more easily.

#	4021176				max. kg	i
	EAN	mm/inch	mm/inch	mm/inch	kg	kg/lb
K-L-BOXX-L-238	-023149	442 17 3/8	375 14 3/4	253 9 15/16	25	3,615 7,971

SERIES K-L-BOXX K-XL-BOXX (EMPTY BOX FROM SORTIMO)



The portable KUKKO empty box from the K-XL-BOXX series by Sortimo offers ample space for a variety of tools. Particularly practical is the click system, which allows for stacking and transporting any number of XL-BOXXes. With just the press of a button, the XL-BOXXes can be separated in no time. The cases are thus the ideal mobility and storage solution for crafts, workshops, and industry.

Benefits

- Integrable and combinable with all common Sortimo L-Boxxes
- Thanks to a click system, the suitcases can be connected to each other and thus transported more easily.



Technical attributes

#	 				max. kg	i
	EAN	mm/inch	mm/inch	mm/inch	kg	kg/lb
K-L-BOXX-XL-BOXX	-023187	607 23 7/8	395 15 9/16	179 7 1/16	25	3,2 7,056

K-L-BOXX K-I-BOXX (EMPTY BOX FROM SORTIMO)



The portable KUKKO empty box from the K-i-BOXX series by Sortimo offers ample space for a selection of tools. The cases are therefore the ideal mobility and storage solution for trades, workshops, and industry.

Benefits

- · Ideal mobility and storage solution
- Thanks to a click system, the suitcases can be connected to each other and thus transported more easily.

#					max. kg	i
	EAN	mm/inch	mm/inch	mm/inch	kg	kg/lb
K-i-BOXX	-002021	367 14 7/16	316 12 7/16	72 2 13/16	3	0,985 2,172

SERIES K-L-BOXX K-L-BOXX-MINIK-XL-BOXX (EMPTY BOX FROM SORTIMO)



The portable KUKKO empty box of the L-BOXX Mini series from Sortimo offers sufficient space for a range of tools. For ideal handling and transportation, the case is equipped with 2 handles. Particularly practical is the click system, allowing an arbitrary number of L-BOXXes to be stacked and then transported. With just the push of a button, the L-BOXXes can be quickly separated from one another. The cases are thus the ideal mobility and storage solution for craftsmen, workshops, and industry.

Benefits

- Integrable and combinable with all common Sortimo L-Boxxes
- Thanks to a click system, the suitcases can be connected to each other and thus transported more easily.

Technical attributes

#					max. kg	
	EAN	mm/inch	mm/inch	mm/inch	kg	kg/lb
K-L-BOXX-MINI	-023156	255 10 1/32	153 6 1/32	63 2 1/2	1,50	0,385 0,849

SERIES K-A-KT KUKKO SMALL PARTS CASE 440x355x76



The KUKKO small parts case with high-impact polycarbonate lid on a solid base allows safe storage of small parts. The cases can be customized with insert boxes and/or dividers and can be securely connected with a connecting clasp.

Benefits

- Transparent lid closes tightly; no mixing of contents
- · Impact-resistant lid made of polycarbonate

#	 4021176				max. kg	i
	EAN	mm/inch	mm/inch	mm/inch	kg	kg/lb
K-A-KT-440-355-76	-007323	440 17 5/16	355 13 1	76 2 1	36	2,16 4,763

SERIES K-A-KT KUKKO TRANSPORT AND STORAGE BOX 600x400x185



The KUKKO small parts case with high-impact polycarbonate lid on a solid base allows safe storage of small parts. The cases can be customized with insert boxes and/or dividers and can be securely connected with a connecting clasp.

Benefits

- Transparent lid closes tightly; no mixing of contents
- Impact-resistant lid made of polycarbonate



Technical attributes

#	4 021176				max. kg	i
	EAN	mm/inch	mm/inch	mm/inch	kg	kg/lb
K-A-KT-440-355-144	-007316	440	355	144	36	0
		17 5/16	13 1	5 11/16		0,000

SERIES K-A-TL KUKKO TRANSPORT AND STORAGE BOX 600X400X185



The KUKKO transport and storage box offers ample storage space for tools, various accessories, and other workshop supplies.

Benefits

- The circulating edge acts locking and self-centering.
- Through the Euromass possibility, logistical advantages are optimally utilized.

#					max. kg	i
	EAN	mm/inch	mm/inch	mm/inch	kg	kg/lb
K-A-TL-600-400-185	-007330	600 23 5/8	400 15 3/4	185 7 5/16	17	0 0,000

SERIES K-L-BOXX KUKKO PADLOCK 45/35



The practical KUKKO padlock guarantees a secure closure of all L-Boxes. The KUKKO L-lock is the comprehensive mobility solution for trades, industry, service, and service companies, impressing with high-quality craftsmanship and versatile application possibilities.

Benefits

- Integrable and combinable with all common Sortimo L-Boxxes
- Thanks to a click system, the suitcases can be connected to each other and thus transported more easily.



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Technical attributes

#	4021176				max. kg	i
	EAN	mm/inch	mm/inch	mm/inch	kg	kg/lb
L-Schloss-45/35	-752261				-	0,08 0,176

SERIES K-CUBEBOXX EMPTY WORKSHOP TROLLEY KUKKO-CUBE



The KUKKO-Cube workshop cart is the smart solution for all transport and storage problems and is used in the fields of craftsmanship, workshops, and industry. Equipped with four drawers, the workshop cart can be individually stocked with Sortimo® L-Boxxes. The L-Boxxes are securely stored in the KUKKO-Cube, ensuring ideal storage. The perfect working height of the workshop cart is suitable for assembly work directly on-site. Smooth-rolling and stable load wheels ensure effortless transportation without significant effort.

Benefits

- Smooth-rolling extracts as well as self-clamping of the pull-out trays
- $\bullet \ \ \, \text{Torque-resistant and stable construction of the workshop cart}$
- Non-slip rubber mat for assembly work

#	4 021176			<u> </u>	
	EAN	mm/inch	mm/inch	mm/inch	kg/lb
K-CubeBoxx	-909986	620 24 7/16	560 22 1/16	1.035 40 3/4	43 94,815

SERIES X-MW MOBILE WORKBENCH



The KUKKO mobile workbench combines the advantages of clear and secure storage with the provision of a multifunctional workspace for everyday needs. The workbench features five heavy-duty drawers, an additional storage space with a 9-way adjustable intermediate shelf and permanently mounted door, a replaceable worktop, and a robust back wall. The perforated grid on the back wall provides ample space for tool holders. A centrally located lock secures both the drawers and the door.

Benefits

- Mobile workbench on wheels for on-site deployment
- Complete extraction of the drawers with ball bearing telescopic rails
- Loch grids provide enough space for attaching tool holders.



Technical attributes

#	4021176			<u></u>	kg	mm	t mm	mm	mm	mm		Number of doors	
	EAN	mm/ inch	mm/ inch	mm/ inch	kg	mm/ inch	mm/ inch	mm/ inch	mm/ inch	mm/ inch			kg/lb
X-MW-179-5 NEW	-202803	1.590 62 5/8	700 27 9/16	1.730 68 1/8	600	500 19 11/16	100, 300 3 15/16, 11 13/16	600 23 5/8	600 23 5/8	1590 62 5/8	5	1	160 352,800

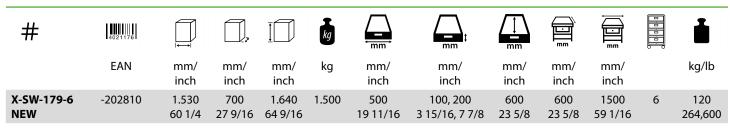
SERIES X-SW STATIONARY WORKBENCH



The stationary workbench from KUKKO combines the advantages of clear and safe storage with the provision of a multifunctional workspace for daily needs. The workbench features seven heavy-duty drawers, additional storage with a 9-fold adjustable intermediate shelf and a fixed-mounted door, a replaceable work surface, and a robust back wall. The perforated grid on the back wall provides ample space for attaching tool holders. A centrally arranged lock simultaneously locks the drawers and the door.

Benefits

- Mobile workbench on wheels for on-site deployment
- · Complete extraction of the drawers with ball bearing telescopic rails
- Loch grids provide enough space for attaching tool holders.





SERIES X-LS BATTERY CHARGING CABINET



The KUKKO locker cabinets with power connection are perfect for the personal and secure storage of battery-operated devices of all kinds. Whether in industry, crafts, offices, schools, universities, or public buildings – thanks to the built-in sockets, batteries can also be charged during storage. This guarantees flexible and immediate usability.

Benefits

- Flexible application possibilities with charging options for batteryoperated electric machines, BDE devices, laptops, tablets, smartphones, or e-bikes
- Thoughtful ventilation optimal air circulation through front and rear ventilation openings.
- Secure Lockable Devices remain locked at all times and are protected from unauthorized access.



Technical attributes

#	 					i
	EAN	mm/inch	mm/inch	mm/inch		kg/lb
X-LS-10 NEW	-080227	410 16 1/8	500 19 11/16	1.790 70 1/2	10	74 163,170

SERIES X-SB EMPTY TOOL CABINET



The tool cabinet from the X-SB series made of stable sheet metal is used for the safe and organized storage of tools. The perforated grid on the back wall provides enough space for attaching tool holders. The tool cabinet features lockable doors with a cylinder lock as well as a maximum load capacity of 50 kg. The high-quality steel cabinets can be flexibly integrated into various work environments, thus adapting to individual requirements.

#	4021176			<u> </u>	kg	Number of doors	
	EAN	mm/inch	mm/inch	mm/inch	kg		kg/lb
X-SB-65x75 NEW	-042058	750 29 1/2	225 8 7/8	650 25 9/16	50	2	0 0,000

SERIES X-SB-224 10-PIECE TOOL CABINET



The tool cabinets of the X-SB-224 series made of stable sheet metal are used for the safe and organized storage of tools. The hole grid on the back wall provides enough space to attach tool holders. The cabinets feature lockable doors with a cylinder lock and a maximum load capacity of 50 kg. The high-quality steel cabinets can be flexibly integrated into various work environments and thus adapt to individual requirements. Depending on the application, the cabinets are equipped with three different assortments.

Technical attributes

#	4021176			$\underline{\overline{1}}$	kg	Number of doors		Components
	EAN	mm/inch	mm/inch	mm/inch	kg		kg/lb	'
224-676 NEW	-042072	750 29 1/2	225 8 7/8	650 25 9/16	50	2	42,8 94,374	022-206, 22-0-17, 15-00, 15-2, 203-1, 203-2, 21-2, 21-4, 21-5, 21-6, 68-0, 68-2, GA7-10, X-SB-65x75
224-677 NEW	-141584	750 29 1/2	225 8 7/8	650 25 9/16	50	2	45 99,225	203-2, 221-G, X-SB-65x75
224-678 NEW	-141614	750 29 1/2	225 8 7/8	650 25 9/16	50	2	0 0,000	18-1, 18-2, 15-2, 15-1, 221-G, 203-1, 203-2, 19-2-P, X-SB-65x75

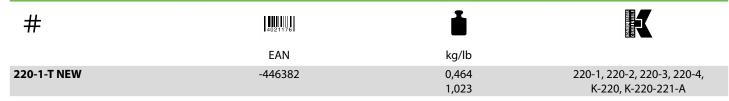
SERIES 220-T PULLER RANGE – UNIVERSAL



The puller assortment for universal application is a wall panel that is stocked with suitable tools for use and storage in workshops and industry. The assortment includes not only the universal puller with sliding hammer but also larger self-centering and combination pullers. The compilation is ideally made for quick and universal applications in 2-jaw and 3-jaw external extraction, removing parts with threaded holes, as well as internal extraction.

Benefits

- Assembly based on years of experience for application in various industries
- · Central availability of the products for every employee





SERIES 30-20-T PULLER SET – INDUSTRY - BASIC



The BASIC puller range for the industry is a wall panel equipped with suitable tools for application and storage in workshops and industry. The range includes not only 2-jaw universal pullers but also 3-jaw traverses and various hooks, which can be combined into different external pullers for various applications thanks to the KUKKO modular system. Together with the included separator device, the range is suitable for external extraction, internal extraction, and bearing separation, making it ideal for versatile use in the industry.

Benefits

- Assembly based on years of experience for application in various industries
- · Central availability of the products for every employee



Technical attributes

#	4 021176		<u> </u>		Components
	EAN	mm/inch	mm/inch	kg/lb	
30-20-T	-875717	500 19 11/16	1.000 39 3/8	24,2 53,361	20-10, 20-20, 15-2, 1-190-S, 2-300-S, 2-150-E, WT-000

SERIES 30-20+T PULLER RANGE – INDUSTRY – BASIC+



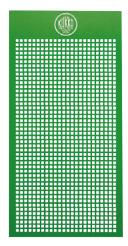
The BASIC+ puller range for industry is a wall panel stocked with suitable tools for use and storage in workshops and industry. The range includes, in addition to 2-jaw universal pullers with quick-adjustable puller jaws, also 3-jaw crossbars as well as various hooks that can be combined into different external pullers for various applications, thanks to the KUKKO modular system. Together with the included separator device, the range is suitable for external extraction, internal extraction, and bearing separation, making it ideal for versatile applications in industry.

Benefits

- Assembly based on years of experience for application in various industries
- · Central availability of the products for every employee

#	4021176		<u> </u>	i	Components
	EAN	mm/inch	mm/inch	kg/lb	
30-20+T	-141454	500 19 11/16	1.000 39 3/8	25,3 55,787	1-92-E, WT-000, 1-192-S, 15-2, 20-10+, 20-20+, 2-302-S

SERIES WT-000 WHITEBOARD, UNSTOCKED



The unfurnished wall board of the series WT is used for clean and tidy storage of KUKKO products in industry and workshops. The board can be stocked in various ways and can be ideally used for organization and overview.

Benefits

- · Central availability of the products for every employee
- Through the storage at the wall panel, the completeness of the range is clearly visible at a glance.



Technical attributes

#			<u> </u>	i
	EAN	mm/inch	mm/inch	kg/lb
WT-000	-890550	500 19 11/16	1.000 39 3/8	4,55 10.033

SERIES WT-002 PULLER RANGE – HYDRAULIC EXTERNAL EXTRACTION - TOP



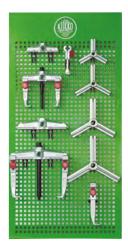
The TOP puller selection for hydraulic external extraction is a wall panel stocked with suitable tools for use and storage in workshops and industry. The selection includes various 2-jaw and 3-jaw crossbars and hooks that can be combined into different external pullers for various applications, thanks to the KUKKO modular principle. This allows for the removal of any components that sit on a shaft and are accessible from the outside. The included hydraulic spindle also enables the easy and controlled removal of particularly stubborn parts.

Benefits

- Assembly based on years of experience for application in various industries
- · Central availability of the products for every employee

#	4 021176			i	Components
	EAN	mm/inch	mm/inch	kg/lb	
WT-002	-890567	500 19 11/16	1.000 39 3/8	16 35,280	20-10+, 20-20+, 1-92-E, WT-000

SERIES WT-003 PULLER RANGE – EXTERNAL EXTRACTION - BASIC



The BASIC puller assortment for external extraction is a wall panel equipped with suitable tools for use and storage in workshops and industry. The assortment includes various 2-jaw and 3-jaw crossbars and hooks that can be combined into different external pullers for various applications, thanks to the KUKKO modular system. This allows for the loosening of any component sitting on a shaft and accessible from the outside.

Benefits

- Assembly based on years of experience for application in various industries
- · Central availability of the products for every employee



Technical attributes

#	4021176		<u> </u>		Components
	EAN	mm/inch	mm/inch	kg/lb	
WT-003	-890574	500 19 11/16	1.000 39 3/8	19,65 43,328	20-10+, 20-20+, 1-92-E, WT-000

SERIES WT-003+S PULLER RANGE – EXTERNAL EXTRACTION – BASIC+



The BASIC+ puller range for external extraction is a wall panel equipped with suitable tools for use and storage in workshops and industry. The range includes various 2-jaw and 3-jaw crossbars and hooks that can be combined into different external pullers for various applications due to the KUKKO modular concept. This allows for the removal of any component that is mounted on a shaft and is freely accessible from the outside. The narrow pulling jaws ensure that tight and hard-to-reach gaps can also be accessed.

Benefits

- Assembly based on years of experience for application in various industries
- · Central availability of the products for every employee

#	4 021176		<u> </u>	i	Components
	EAN	mm/inch	mm/inch	kg/lb	
WT-003+S	-141461	500 19 11/16	1.000 39 3/8	19,39 42,755	20-10+S, 20-20+S, WT-000

SERIES WT-004 PULLER SET – AUTOMOTIVE - BASIC



The BASIC puller range for the automotive is a wall panel stocked with suitable tools for application and storage in workshops and industry. The range includes 2-jaw universal pullers and 3-jaw crossbars and hooks that can be combined into various external pullers for different applications thanks to the KUKKO modular principle. Additionally, specifically designed for use in the automotive sector are nut splitters, ball joint removers, oil filter wrenches, and separator forks.

Benefits

- Assembly based on years of experience for application in various industries
- · Central availability of the products for every employee



Technical attributes

#	4021176		$\overline{\underline{1}}$	i	Components
	EAN	mm/inch	mm/inch	kg/lb	
WT-004	-890581	500 19 11/16	1.000 39 3/8	9,4 20,727	30-1-T, 20-1+, 1-92-S, 1-92-E, 108-1, 129-1, 135-2, 43-1, 50-2, 55-1, WT-000

SERIES WT-008 PULLER SET – NFZ - BASIC



The BASIC puller range for commercial vehicles is a wall-mounted panel stocked with the appropriate tools for application and storage in workshops and industry. The range includes 2-jaw and 3-jaw crossbars and hooks, as well as universal pullers that can be combined into various external pullers for different applications thanks to the KUKKO modular system. Specifically included for commercial vehicles are a separating device and a long hydraulic spindle to effectively remove even particularly stubborn parts.

Benefits

- Assembly based on years of experience for application in various industries
- · Central availability of the products for every employee

#				i	Components
	EAN	mm/inch	mm/inch	kg/lb	
WT-008	-890604	500 19 11/16	1.000 39 3/8	18,1 39,911	20-20, 8-0-621, 15-2, 20-20+, 2-300- S, 2-151-S, 2-302-S, 2-153-S, 2-150-E, WT-000

SERIES WT-010 PULLER SET – NFZ - TOP



The TOP puller range for commercial vehicles is a wall panel equipped with suitable tools for application and storage in workshops and industry. The range includes universal pullers, as well as hooks and a 3-jaw crossbar, which can be combined into different external pullers for various applications thanks to the KUKKO modular system. Specifically for commercial vehicles, it includes a separating and a pulling device, as well as a short hydraulic spindle, nut splitter, and a heavy ball joint press to effectively remove various particularly stuck parts.

Benefits

- Assembly based on years of experience for application in various industries
- · Central availability of the products for every employee



Technical attributes

#	4 021176		<u> </u>	i	Components
	EAN	mm/inch	mm/inch	kg/lb	
WT-010	-890628	500 19 11/16	1.000 39 3/8	39,5 87,098	18-2, 20-3+, 800, 56-1, 129-4, 3-203-S, WT-000, 15-2, 8-02

SERIES WT-014 PULLER RANGE – AUTOMOTIVE – CHASSIS



The puller range for chassis in the automotive industry is a wall panel equipped with suitable tools for application and storage in workshops and industry. The range includes the 2-jaw separator "Cobra" with adjustable reach. Additionally, the assortment features separating forks, spreaders, ball joint extractors, and ball joint pullers in various sizes, specifically designed for work on the chassis.

Benefits

- Assembly based on years of experience for application in various industries
- · Central availability of the products for every employee

#	 		<u> </u>	i	Components
	EAN	mm/inch	mm/inch	kg/lb	
WT-014	-890635	500 19 11/16	1.000 39 3/8	15,3 33,737	210-1, 129-0, 129-0-25, 129-1, 129-4, 128-1, 128-2, 128-3, 135-1, 145-2, 145-3, WT-000

SERIES WT-017 PULLER SET – INTERNAL EXTRACTION – BASIC



The BASIC puller range for internal extraction is a wall panel equipped with suitable tools for application and storage in workshops and industries. The range includes numerous 2-jaw internal extractors, as well as internal extractors with segmented gripping edges, sliding hammers, and counter stays in various sizes, along with two retaining ring pliers. Internal parts of various sizes can be safely and versatilely extracted.

Benefits

- Assembly based on years of experience for application in various industries
- · Central availability of the products for every employee



Technical attributes

#	4021176		<u> </u>		Components
	EAN	mm/inch	mm/inch	kg/lb	
WT-017	-141478	500 19 11/16	1.000 39 3/8	20,93 46,151	22-0-05, 22-0-17, 22-1, 22-2, 21-1, 21-2, 21-3, 21-4, 21-5, 21-6, 21-7, 21-8, 21-1-E, 21-2-E, 21-3-E, 21-4-E, 21-5-E, 728K-A2, 729K-J2, WT-000

SERIES WT-018 PULLER RANGE – INTERNAL EXTRACTION – TOP



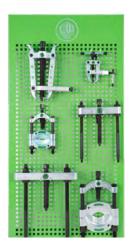
The TOP puller set for internal extraction is a wall panel equipped with appropriate tools for application and storage in workshops and industry. The set includes numerous 2-jaw internal extractors in 8 different sizes, as well as counter stays and universal pullers in various sizes, puller sleeves for grooved ball bearing inner rings, and an additional hydraulic press. Even particularly stubborn internal parts of various sizes can be extracted safely and versatilely this way.

Benefits

- Assembly based on years of experience for application in various industries
- · Central availability of the products for every employee

#	4021176		<u> </u>	i	Components
	EAN	mm/inch	mm/inch	kg/lb	
WT-018	-141485	500 19 11/16	1.000 39 3/8	22,735 50,131	43-1, 22-1, 22-2, 21-1, 21-2, 21-3, 21-4, 21-5, 21-6, 21-7, 21-8, 23, WT-000, 20-1+, 20-2+, 9-1

SERIES WT-019 PULLER SET – BEARING SEPARATOR



The puller range for separation pulling is a wall panel equipped with suitable tools for application and storage in workshops and industry. The range includes the 2-jaw bearing puller "Cobra" in two different sizes, as well as several separation and pulling devices. This allows parts to be gently separated from the seat before they can then be pulled out from the outside.

Benefits

- Assembly based on years of experience for application in various industries
- · Central availability of the products for every employee



Technical attributes

#	4021176		<u> </u>		Components
	EAN	mm/inch	mm/inch	kg/lb	
WT-019	-141492	500 19 11/16	1.000 39 3/8	22,68 50,009	204-0, 17-1, 17-2, 18-1, 18-2, 210-1, WT-000

SERIES WT-020 CLAMPS RANGE – ALL STEEL – PREMIUM



The premium all-steel clamping range is a wall panel equipped with matching tools for use and storage in workshops and industry. The range includes various VIRIDIS all-steel screw clamps with a 3K comfort grip, as well as VIRIDIS all-steel lever clamps. With these, multiple workpieces can be held and clamped gently, effortlessly, and safely.

Benefits

- Assembly based on years of experience for application in various industries
- Central availability of the products for every employee

#	 	4021176			Components
	EAN	mm/inch	mm/inch	kg/lb	
WT-020	-141508	500 19 11/16	1.000 39 3/8	27,7 61,079	469+0160-080, 469+0250-100, 469+0250-120, 469+0300-140, 472H0200-100, WT-000

SERIES WT-021 CLAMP RANGE – DUCTILE IRON – PREMIUM



The Premium ductile cast clamp range is a wall panel stocked with suitable tools for use and storage in workshops and industry. The range includes various ductile cast screw clamps VIRIDIS with a 3K comfort grip. These allow for several workpieces to be held and clamped gently and securely.

Benefits

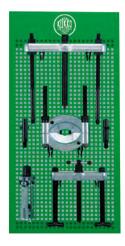
- Assembly based on years of experience for application in various industries
- · Central availability of the products for every employee



Technical attributes

#	4021176				Components
	EAN	mm/inch	mm/inch	kg/lb	
WT-021	-141515	500	1.000	0	490+0160-080, 490+0250-100,
		19 11/16	39 3/8	0,000	490+0250-120, 490+0300-140, WT-000

SERIES WT-030 PULLER RANGE – AUTOMOTIVE – AXLE



The puller assortment for axles in the automotive industry is a wall panel equipped with suitable tools for application and storage in workshops and industry. The assortment includes a puller device with a pair of extensions, as well as a corresponding separator, internal extractor, and counter stays in a large version specifically for work on axles.

Benefits

- Assembly based on years of experience for application in various industries
- Central availability of the products for every employee

#	4021176		<u> </u>	i	Components
	EAN	mm/inch	mm/inch	kg/lb	
WT-030	-893490	500 19 11/16	1.000 39 3/8	27,91 61,542	15-3, 18-3, 19-3-P, 22-4, 21-89, WT-000

SERIES WT-031 PULLER RANGE – COMMERCIAL VEHICLES – AXLE



The puller range for axles at commercial vehicles is a wall panel stocked with suitable tools for application and storage in workshop and industry. The range includes a puller device in extra large version specifically for work on axles of commercial vehicles, as well as corresponding pressure pieces, connection nuts, and thread inserts.

Benefits

- Assembly based on years of experience for application in various industries
- · Central availability of the products for every employee



Technical attributes

#	######################################		<u> </u>	i	Components
	EAN	mm/inch	mm/inch	kg/lb	
WT-031	-914584	500 19 11/16	1.000 39 3/8	27,96 61,652	18-4, VM2215-58, 18-4S0117, 18-4S0217, WT-000

SERIES WT-50 PULLER RANGE – INDUSTRY - TOP



The TOP puller range for the industry is a wall panel that is equipped with matching tools for application and storage in workshops and industry. In addition to 2-jaw universal pullers, the range includes 3-jaw crossbars as well as various hooks that can be combined into different external pullers for different applications thanks to the KUKKO modular system. Together with the included separator and the additional hydraulic press, the range is suitable for external extraction, internal extraction, and separating particularly stubborn parts, making it ideal for versatile applications in the industry.

Benefits

- Assembly based on years of experience for application in various industries
- · Central availability of the products for every employee

#	 		<u> </u>		Components
	EAN	mm/inch	mm/inch	kg/lb	
WT-50	-951114	500 19 11/16	1.000 39 3/8	26,44 58,300	1-V-150-S, 2-V-150-S, 1-92-E, WT-000, 15-2, 18-2, 20-10+, 20-20+, 9-1

SERIES WT-1-INDUSTRIE PULLER SET – INDUSTRY



The puller range for industry is a wall panel equipped with suitable tools for application and storage in workshops and industry. The range includes various 2-jaw and 3-jaw universal pullers, as well as internal extractors and matching sliding hammer and counter stays. Together with the included separator device and a nut splitter, the range is suitable for external extraction, internal extraction, and bearing separation, making it ideal for versatile applications in the industry.

Benefits

- Assembly based on years of experience for application in various industries
- · Central availability of the products for every employee

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Technical attributes

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	EAN	mm/inch	mm/inch	kg/lb	
WT-1-INDUSTRIE	-003608	500 19 11/16	1.000 39 3/8	21,9 48,290	20-1+, 20-10+, 20-2+, 21-2, 21-3, 21-4, 21-5, 22-0-05, 22-1, 43-1, 43-2, 43-3, 43-11, 43-12, 43-13, 44-1, 45-1, 55-2, WT-000, 15-0, 18-0

SERIES EVLW-INDUSTRIE-BASIC SALES WALL INDUSTRY BASIC



The sales wall Industry serves the optimal presentation of KUKKO tools in your store. The illuminated sales wall is stocked with an assortment that has been compiled based on years of experience for use in the industry. In addition to pullers, the range also includes internal extractors, sliding hammers, counter stays, separation and puller devices, bearing pullers, and nut splitters. Together with the two case sets, customers in the industry should be able to find the right product for their needs.

Benefits

- KUKKO is happy to support you in the setup and training of your employees regarding the respective products and pulling principles. Contact us and get personalized advice.
- Simple reorder of the sold products through clear labeling

#	4021176			<u> </u>		Components
	EAN	mm/inch	mm/inch	mm/inch	kg/lb	
EVLW-INDUSTRIE- BASIC	-123689	1.030 40 9/16	550 21 5/8	2.250 88 9/16	123 271,215	8-0-621, 9-1, 12-1, 12-2, 14-3, 17-0, 17-1, 18-0, 18-1, 20-10+, 20-20+, 20-1+S-T, 21-0, 21-01, 21-1, 21-2, 21-3, 21-4, 21-5, 21-6, 22-0-05, 22-0-17, 22-1, 22-2, 30-1+S, 30-2+S, 41-0, 41-2, 41-3, 42-0, 42-2, 42-3, 43-1, 43-3, 43-11, 44-1, 44-3, 55-0, 55-1, 55-2, 55-3, 55-4, 56-2, 204-0, 204-02, 210-1, 219-1, K-2030-10+S, K-70-C

SERIES EVLW-2-INDUSTRIE SALES WALL INDUSTRY



The sales wall Industry serves the optimal presentation of KUKKO tools in your store. The illuminated sales wall is stocked with an assortment that has been compiled based on years of experience for use in the industry. In addition to pullers, the range also includes internal extractors, sliding hammers, counter stays, separation and puller devices, bearing pullers, and nut splitters. Together with the two case sets, customers in the industry should be able to find the right product for their needs.

Benefits

- KUKKO is happy to assist you in building and training your employees on the respective products and pulling principles. Contact us and let us provide you with personalized advice.
- · Simple reordering of sold products through clear labeling

Technical attributes



#	 			<u> </u>	i	Components
	EAN	mm/inch	mm/inch	mm/inch	kg/lb	
EVLW-2-INDUSTRIE	-141522	1.030 40 9/16	550 21 5/8	2.250 88 9/16	0 0,000	8-0-621, 9-1, 12-1, 12-2, 14-3, 17-0, 17-1, 18-0, 18-1, 20-10+, 20-20+, 20-1+S-T, 21-0, 21-01, 21-1, 21-2, 21-3, 21-4, 21-5, 21-6, 22-0-05, 22-0-17, 22-1, 22-2, 30-1+S, 30-2+S, 41-0, 41-2, 41-3, 42-0, 42-2, 42-3, 43-1, 43-3, 43-11, 44-1, 44-3, 55-0, 55-1, 55-2, 55-3, 55-4, 56-2, 204-0, 204-02, 210-1, 219-1, K-2030-10+S, K-70-C

SERIES EVLW-2-KFZ SALES WALL AUTOMOTIVE



The sales wall Automotive serves the optimal presentation of KUKKO tools in your store. The illuminated sales wall is equipped with a compilation that has been assembled based on many years of experience for application in the Automotive sector. In addition to pullers, the range also includes internal extractors, sliding hammers, counter stays, separating and pulling devices, bearing pullers, lock nut splitters, ball joint pullers, and other automotive tools. Together with the two case sets, customers from the industry should be able to find the right product for their needs.

Benefits

- KUKKO is happy to support you in the setup and training of your employees regarding the respective products and pulling principles. Contact us and get personalized advice.
- Simple reorder of the sold products through clear labeling

#	4 021176			$\underline{\bar{1}}$		Components
	EAN	mm/inch	mm/inch	mm/inch	kg/lb	
EVLW-2-KFZ	-141539	1.030 40 9/16	550 21 5/8	2.250 88 9/16	110 242,550	17-1, 18-1, 20-10+, 20-20+, 20-3+, 20-1+S-T, 21-1, 21-2, 21-3, 21-4, 21-5, 21-6, 21-7, 22-0-05, 22-0-17, 22-1, 22-2, 43-3, 43-13, 48, 54-2, 54-3, 128-F-SW, 128-2, 128-3, 129-0-25, 129-1, 204-0, 204-V, 210-1, 210-2, K-2030-10+S, K-22-A, 9-1

SERIES EVLW-2-NFZ SALES WALL AUTOMOTIVE / COMMERCIAL VEHICLES / AGRICULTURAL MACHINERY



The sales display for Automotive / Commercial Vehicles / Agricultural Machinery serves to optimally present KUKKO tools in your store. The illuminated display is equipped with an assortment that has been compiled based on many years of experience for applications in commercial vehicles. In addition to pullers, the range also includes internal extractors, sliding hammers, counter stays, separating and pulling devices, bearing pullers, nut splitters, ball joint pullers and extractors, as well as other automotive tools. Together with the two tool case sets, customers from the industry should be able to find the suitable product for their needs.

Benefits

- KUKKO is happy to support you in the setup and training of your employees regarding the respective products and pulling principles. Contact us and get personalized advice.
- Simple reorder of the sold products through clear labeling



#	4021176			$\overline{\underline{[}}$	i	Components
	EAN	mm/inch	mm/inch	mm/inch	kg/lb	
EVLW-2-NFZ	-141546	1.030 40 9/16	550 21 5/8	2.250 88 9/16	0 0,000	9-2, 17-1, 18-1, 20-10+, 20-20+, 20-3+, 20-1+S-T, 21-1, 21-2, 21-3, 21-4, 21-5, 21-6, 21-7, 22-1, 22-2, 22-0-05, 22-0-17, 43-3, 43-13, 48, 54-2, 54-3, 128-F-SW, 128-3, 128-4, 128-5, 129-0-25, 129-3, 204-V, 204-0, 210-1, 210-2, 129-5, K-2030-20, K-16, 9-1







For precise aligning, editing, and positioning of impact-sensitive surfaces or various assembly, repair, and maintenance tasks – KUKKO provides the perfect solution for every application.

The activities involving hammers include

- Soft-face hammer "SFI FCTHOR"
- Soft-face hammer



DEPLOYMENT

Soft-face hammers are the ideal choice for precisely processing, aligning, and positioning impact-sensitive surfaces. Depending on the surface, different impact inserts made of rubber, plastic, or nylon can be selected, which exhibit varying degrees of hardness. The anti-rebound inlay ensures optimal impact power with minimal joint stress. Soft-face hammers are multifunctional and can be used across various industries.

FEATURES OF THE SERIES

SERIES SELECTHOR



Soft-face hammers with interchangeable impact inserts

Description

With the Selecthor KU soft-face hammer featuring plastic impact inserts, sensitive surfaces can be processed, positioned, and aligned precisely. The impact inserts are universally applicable and are particularly used in assembly, repair, maintenance work, sheet metal processing, prefabricated house construction, carpentry, scaffolding, and tent construction. For even more versatile applications, the soft-face hammer can be combined with impact inserts made of rubber and/or nylon. The innovative anti-recoil inlay ensures optimal impact force with minimal stress on the joints.

Application area

For precise processing, positioning, and aligning of various surfaces.

Benefits

- · Non-rebound with simultaneous increase in impact energy in sizes D30 D80
- · Joint-saving with anti-recoil inlay
- · Stable and precise investment casting housing made of high-quality alloy steel
- · Ergonomically designed handles made of durable hickory wood
- · Oil and grease resistant inserts
- · No chipping at the inserts

SERIES 343



Recoil-free soft-face hammer rubber

Description

With the shock-free soft-face hammer, various surfaces can be precisely processed, positioned, and aligned. The soft-face hammer is used for assembly/repair/maintenance work on sensitive materials that must not be damaged, as well as in the food industry. The steel ball filling inside the hammer head ensures optimal striking power with minimal joint stress. Made from durable nitrile rubber. The operating temperature ranges from -20 °C to 90 °C.

Application area

For precise processing, positioning, and aligning of different surfaces and in the food industry.

Benefits

- · Knurling on the handle ensures an ideal grip
- · Absolutely rebound-free
- · Joint-friendly working





ANTI-BACKLASH PRINCIPLE OF THE SOFT-FACE HAMMER

1. THE IMPACT STROKE PHASE

The micro-fine metal balls of the antibacklash inlay are moved backwards by the centrifugal force.



2. THE CLAMPING PHASE

The impact insert strikes the material and the metal balls move towards the impact point.



3. THE ANTI-ROLLBACK EFFECT

The complete mass of the anti-rebound insert is now thrust forward, generating 1.5 times the impact energy. At the same time, a rebound of the Selecthor is prevented.



LUGGAGE SETS



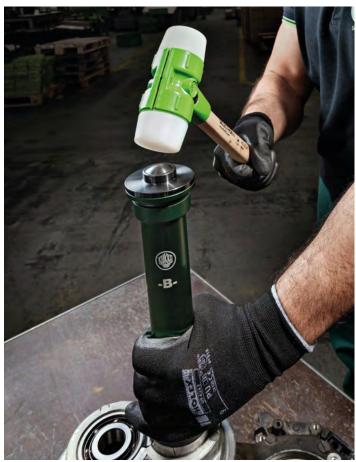


The set includes various impact inserts made of rubber, plastic, and nylon, which can be combined or exchanged depending on the application. The impact inserts are durable, damping, and last longer than a conventional rubber hammer. They are particularly used in gardening/landscaping, paving work, setting curbstones, masonry and stairs, as well as in fence construction, scaffolding, tent construction, prefabricated house construction, carpentry, and maintenance/repair work.

APPLICATION EXAMPLES



Use of a Schonhammer Selecthor when laying paving stones



Installation of a bearing with a soft-face hammer Selecthor in combination with the 71-L

SERIES 3-KU-KU-1 SOFT-FACE HAMMER "SELECTHOR"



With the soft-face hammer Selecthor KU featuring plastic impact inserts, sensitive surfaces can be precisely processed, positioned, and aligned. The impact inserts are universally applicable and are particularly used for assembly, repair, and maintenance work, sheet metal processing, prefabricated house construction, carpentry, scaffolding, and tent construction. For even more versatile applications, the soft-face hammer can be combined with impact inserts made of rubber and/or nylon. The innovative anti-recoil inlay ensures optimal impact force with minimal strain on the joints.

Benefits

- Impact-free while simultaneously increasing the impact energy in sizes D30 - D80
- · Joint-friendly through anti-kickback inlay
- High-quality screws with spring washer to prevent accidental loosening

Technical attributes

#	4 021176	L ← →			I		i
	EAN	mm/inch	mm/inch	kg	mm/inch		kg/lb
3-030111-KU-KU-1	-020186	300 11 13/16	92 3 5/8	0,02	30 1 3/16	75	0,785 1,731
3-040111-KU-KU-1	-020230	330 12 63/64	116 49/16	0,06	40 1 9/16	75	0,762 1,680
3-050111-KU-KU-1	-020278	380 14 15/16	138 5 7 /16	0,14	50 1 15/16	75	1,32 2,911
3-060111-KU-KU-1	-020322	410 16 1/8	149 5 7 /8	0,21	60 2 3/8	75	1,758 3,876





With the soft-face hammer Selecthor GU with impact inserts made of rubber, sensitive surfaces can be processed, positioned, and aligned precisely. The impact inserts are low-wear, damping, and last longer than a conventional rubber hammer. They are particularly used in landscaping, paving work, setting curbs, masonry, and stairs, as well as in fence construction, scaffolding, tent construction, prefabricated house construction, carpentry, and maintenance/repair work. For even more versatile application possibilities, the soft-face hammer can be combined with impact inserts made of plastic and/or nylon. The innovative anti-recoil inlay ensures optimal impact force while minimizing joint stress.

Benefits

- Free from backlash while simultaneously increasing impact energy in sizes D30 - D80
- · Joint-friendly through anti-rebound inlay
- High-quality screws with spring washer to prevent accidental loosening

#	4 021176	L ←—→	<u> </u>				i
	EAN	mm/inch	mm/inch	kg	mm/inch		kg/lb
3-030111-GU-GU-1	-020179	300 11 13/16	92 3 5/8	0,02	30 1 3/16	50	0,4 0,882
3-040111-GU-GU-1	-020216	330 12 63/64	116 49/16	0,06	40 1 9/16	50	0,76 1,676
3-050111-GU-GU-1	-020261	380 14 15/16	138 5 7 /16	0,14	50 1 15/16	50	1,325 2,922
3-060111-GU-GU-1	-020315	410 16 1/8	149 5 7 /8	0,21	60 2 3/8	50	1,75 3,859
3-080111-GU-GU-1	-020353	500 19 11/16	175 6 7 /8	0,6	80 3 1/8	50	3,768 8,308
3-080112-GU-GU-1	-003325	900 35 7/16	175 6 7 /8	0,6	80 3 1/8	50	4,045 8,919

SERIES 3-NY-NY-1 SOFT-FACE HAMMER "SELECTHOR"



• FI

With the Selecthor NY soft-face hammer featuring impact inserts made of nylon, sensitive surfaces can be processed, positioned, and aligned accurately. The impact inserts are particularly used in tool and machine engineering, during bending and folding work, in body construction, or for loosening tires/wheels. For even more versatile application possibilities, the soft-face hammer can be equipped with impact inserts made of rubber and/or nylon plastic. The innovative anti-kickback inlay provides optimal impact force while minimally stressing the joints.

Benefits

- Free from backlash while simultaneously increasing impact energy in sizes D30 - D80
- · Joint-friendly through anti-kickback inlay
- · High-quality screws with spring washer against accidental loosening

Technical attributes

#	4 021176	L ←—→	 				i
	EAN	mm/inch	mm/inch	kg	mm/inch		kg/lb
3-030111-NY-NY-1	-039492	300 11 13/16	92 3 5/8	0,02	30 1 3/16	85	0,4 0,882
3-040111-NY-NY-1	-039515	330 12 63/64	116 49/16	0,06	40 1 9/16	85	0,76 1,676
3-050111-NY-NY-1	-039522	380 14 15/16	138 5 7 /16	0,14	50 1 15/16	85	1,32 2,911
3-060111-NY-NY-1	-039553	410 16 1/8	149 5 7 /8	0,21	60 2 3/8	85	1,72 3,793
3-080111-NY-NY-1	-039560	500 19 11/16	175 6 7 /8	0,6	80 3 1/8	85	3,7 8,159
3-080112-NY-NY-1	-003349	900 35 7/16	175 6 7 /8	0,6	80 3 1/8	85	3,94 8,688

SERIES 3-NY-NY-0 SOFT-FACE HAMMER "SELECTHOR"



The Selecthor NY/NY sledgehammer is equipped on both sides with nylon inserts and offers excellent striking properties. The white nylon striking insert with a hardness of Shore 85D is a very hard, durable insert with very high strength. This sledgehammer is suitable for universal use, for driving in wooden posts, for disassembly, or for demolition work. It is available in sizes D100 and D125. The innovative anti-kickback inlay ensures optimal striking power with minimal joint stress.

Benefits

- Impact-free while simultaneously increasing the impact energy in sizes D100 and D125
- Joint-friendly working with many impact repetitions through antirecoil inlay
- High-quality screws with spring washer against accidental loosening

#	4 021176	L	} —		1 ← → → 1		
	EAN	mm/inch	mm/inch	kg	mm/inch		kg/lb
3-100111-NY-NY-0	-003356	1.020 47 1/4	204 8 1 /16	0	100 3 15/16	85	6,19 13,649
3-125111-NY-NY-0	-003363	1.020 47 1/4	204 8 1 /16	0	125 4 15/16	85	6,37 14,046

SERIES K-SELECTHOR SELECTHOR SOFT-FACE HAMMER IN THE CASE SET WITH INTER-CHANGEABLE IMPACT INSERTS



With the soft-face hammer Selecthor in the K-Selecthor case, sensitive surfaces can be precisely processed, positioned, and aligned. The set includes various impact inserts made of rubber, plastic, and nylon, which can be combined or exchanged depending on the application. The impact inserts are low-wear, damping, and last longer than a conventional rubber hammer. They are particularly used in gardening/landscaping, paving work, setting curbs, masonry and stairs, as well as in fence construction, scaffolding, tent construction, prefabricated house building, carpentry, and maintenance/repair work. The innovative anti-rebound inlay ensures optimal impact force with minimal strain on the joints.

Benefits

- Impact-free while simultaneously increasing the impact energy in sizes D30 - D80
- · Joint-friendly through anti-kickback inlay
- High-quality screws with spring washer to prevent accidental loosening

Technical attributes

#	4 021176	L ←──→	I		14			Components
	EAN	mm/inch	mm/inch	kg	mm/inch		kg/lb	
K-SELECTHOR-01	-040320	300 11 13/16	116 49/16	0,01	40 1 9/16	45/75/82	4,565 10,066	3-040111-GU-KU-1

SERIES 343 NON-REBOUND SOFT-FACE HAMMER RUBBER



With the recoil-free soft-face hammer, various surfaces can be processed, positioned, and aligned precisely. The soft-face hammer is used for assembly, repair, and maintenance work on sensitive materials that must not be damaged. The steel ball filling inside the hammer head guarantees optimal impact power with minimal strain on the joints. Made of durable nitrile rubber. The operating temperature ranges from -20 °C to 90 °C.

Benefits

- · Knurling on the handle guarantees ideal grip
- · Absolutely impact-free
- · Hammers do not break or split

#	 	←	14		i
	EAN	mm/inch	mm/inch		kg/lb
343-050	-911119	320 12 5/8	50 1 15/16	85	0,82 1,808
343-060	-911126	360 14 3/16	60 2 3/8	85	1,265 2,789







CARE & SAFETY

To ensure the safety of the puller and prevent falls, to secure loads in transport, to protect during pulling operations, or to maintain the spindle under high pulling forces - at KUKKO, safety is a top priority.

The activities related to care & safety include:

- Fall protection
- Tension strap
- Accident protection tarp
- Special grease



DEPLOYMENT

Even the best tools require proper handling and maintenance to minimize the risk of injury at the workplace. Especially in the field of occupational safety, KUKKO provides essential equipment for daily needs.

FEATURES OF THE SERIES

SERIES KFS-69



The green KUKKO special grease for pressure spindles protects and maintains applied spindles, and is especially used under high pulling forces in crafts, industry, and workshops. Each KUKKO puller comes with a tube of special grease.

SERIES 660



The fall protection of the series 660 is used to secure and prevent the puller from falling during application. The carabiner hook is capable of attaching the puller to a designated attachment point. The fastening ring prevents the tool from falling.

SERIES UFP



The accident protection tarpaulins for puller operations are necessary for protection and safety when using large forces. During disassembly and pulling operations, it may happen that entire parts are abruptly released or break. The special tarpaulins serve to prevent potential accident hazards.

SERIES USB



The tension belt is used for securing small to medium loads in transportation. The clamp lock features a serrated clamping jaw with a spring mechanism that ensures a firm hold. If hook eyes are present on the puller, the tension belt can be used to better secure and hold the pull hooks together.

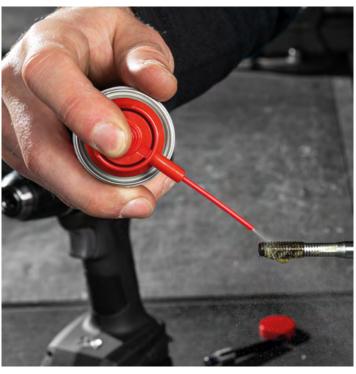
SAFETY INSTRUCTIONS

All pullers with spindle are equipped with a KUKKO Safety-First label. This ensures that one always keeps an eye on the safety instructions before each use of the puller. After use, the label must be reattached to the spindle. All KUKKO tools have special labels that contain the most important safety instructions and technical attributes.

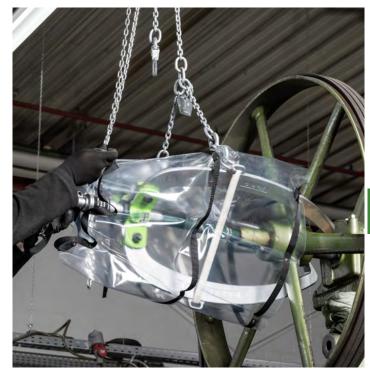




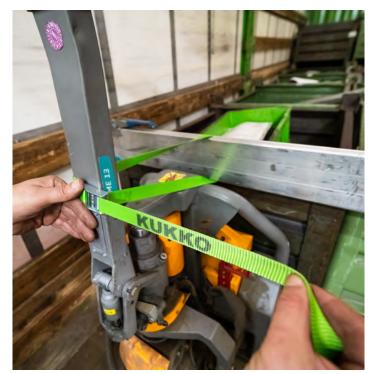
APPLICATION EXAMPLES



Greasing the thread



Safety cover guarantees a secure removal



Load securing with KUKKO strap



Safety puller secures ball joint puller

SERIES USB STRAP

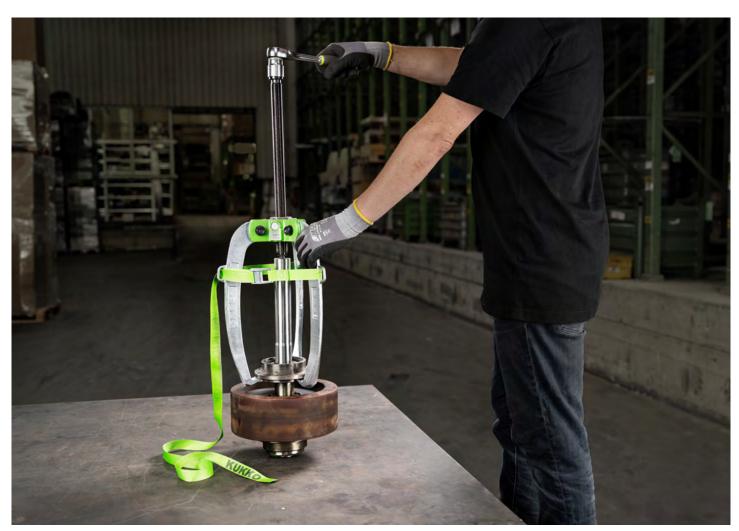


The tension strap is used for securing small to medium loads in transportation. The clamp lock features a serrated clamping jaw with a spring mechanism that guarantees a firm grip. If hook eyes are present on the puller, the tension strap can be used for better fixing and holding of the extraction hooks. This ensures an even safer extraction.

Benefits

- The grooved clamping jaw ensures ideal grip.
- For tensioning small to medium loads

#	4 021176		←	↔ → → max. %	daN	i
	EAN	mm	mm	%	daN	kg
USB-1	-041952	25	2.000	5 %	450	0,12



The USB-1 tensioning strap secures a 3-armed industrial puller during pulling

SERIES UFP PULLING SAFETY COVER FOR PULLER OPERATIONS



The accident protection tarpaulins for disassembly work of the UFP series are necessary for protection and safety when using large forces. During disassembly and pulling operations, it can happen that entire parts are suddenly loosened or break. The tarpaulins serve to prevent potential accident hazards, with which workpieces and tools can be safely enclosed even before the forces are applied.

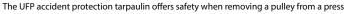
Benefits

- Highly elastic, tear-resistant, and oil-resistant material
- The tarp is delivered in the suitcase for careful storage.

#			<u> </u>	i
	EAN	mm/inch	mm/inch	kg/lb
UFP-2	-445293	1.500 59 1/16	670 26 3/8	1,75 3,859
UFP-3	-445378	4.000 157 1/2	1.300 51 3/16	7,705 16,990







SERIES 660 FALL PROTECTIONS FOR EXTRACTORS



The fall protection devices of the series 660 are used to secure the puller and prevent falls during external extraction in crafts, industry, and workshops. The carabiner hook is capable of attaching the puller to a designated fixing point, and the fixing ring prevents falling.

Benefits

- The elastic pull line provides enough space to work and stops the puller from falling.
- The tool is continuously secured during the pulling process.

#		L ← — →	Ø	kg
	EAN	mm/inch	mm/inch	kg
660-614	-006197	700 27 9/16	19 3/4	20
660-616	-006210	700 27 9/16	21 13/16	20
660-618	-006227	700 27 9/16	23 7/8	20
660-620	-006234	700 27 9/16	25 1	20





The 660 series safety catches offer protection against accidents and damage if the puller falls

SERIES KSF-69 KUKKO SPECIAL GREASE FOR SPINDLE PRESSES



The green KUKKO special grease for pressure spindles protects and maintains applied spindles and is particularly used under high pulling forces in crafts, industry, and workshops. The reduced friction increases the efficiency during pulling and minimizes wear.

Benefits

· Increases the longevity of the spindle

Technical attributes

#	4021176		i
	EAN	g	kg/lb
699904	-773518	4	0,5 1,103
699915	-019869	15	0,2 0.441



SERIES KSF-69-C KUKKO SPECIAL GREASE FOR PRESSURE SPINDLES



The green KUKKO special grease for pressure spindles protects and maintains applied spindles and is particularly used in crafts, industry, and workshops under high pulling forces. By reducing friction, the efficiency during pulling is increased and wear is minimized.

Benefits

• Increases the longevity of the spindle

#			i
	EAN	g	kg/lb
699975	-019876	75	0,1 0,221

SERIES 699990 BIO-MULTI-OIL



The bio-multi-oil "6 in 1" from KUKKO protects and cares for the spindle under high pulling forces in craftsmanship, industry, and workshops.

Benefits

• Increases the longevity of the spindle





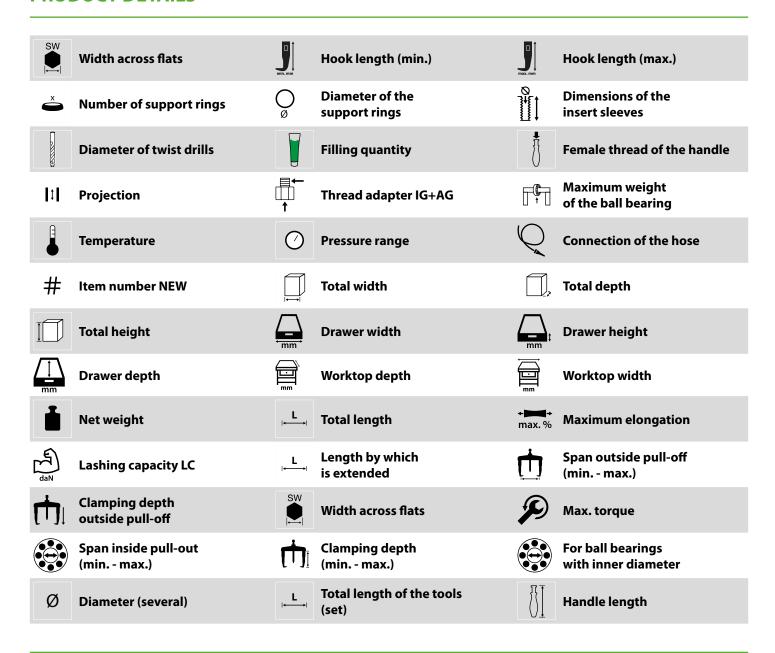
#	Article number	4021176	GTIN		Total width
	Total depth	<u> </u>	Total height		Spacing of support arms
kg	Load capacity		Gross Weight	<u></u>	Span (max.)
The same of the sa	Jaw width vice		Jaw height		Clamping height
	Width of the clamping rail	<u> </u>	Depth of the clamping rail	mm	Drawer width
mm t	Drawer height	mm	Drawer depth	mm	Worktop depth
mm	Worktop width		Number of drawers	Q	Valve available
L ←—→	Total length	Ø	Diameter	Ø	Hose diameter
	Hub	ф	Outer pull-off span (min max.)	\Box	Clamping depth (max.)
	Inner pull-out span (min max.)	P	Max. Torque		Ball bearing ISO
Ţ	Insert depth	ğ	Diameter of the puller		Mounting thread
	Width across flats hexagon socket	SW 	Width across flats hexagon socket	J mm	Total hook foot depth (total claw depth H)
I D	Total claw thickness (L+1mm) (claw distance to base surface)		Hook foot width (claw width J)	□	Hook foot depth usable (claw depth usable O)
± mm	Hook foot thickness at the tip (claw thickness K)	KOMBINEBAR	Suitable for (list)		Outer pull-off span (max.)
	Tension depth A1-A2		Thread dimension		Puller span (min max.)
Ħį	Clamping depth of puller		For ball bearings with inside diameter		Internal thread of the connecting nut
	Separation diameter (min max.)	0	Max. Pressure		Outer pull-off span (min.)
	Clamping depth outside draw-off		Separation diameter (min.)		Separation diameter (max.)
	Peel height	4	Voltage range	0	Max. Pressure of hydraulics
KOMBNIEBAR COMBINABLE	Matching (back reference list)		Length of the slide hammer		Impact distance
	Impact mass	↑ min.	Inner pull-out span (min.)	max.	Internal pull-out span (max.)
min.	Insertion depth (min.)	max.	Insertion depth (max.)	<u> </u>	Span (min.)

	Clamping depth (min.)	-	Insert thread		Internal thread of the thread adapter
	For bushes with diameter		For bushes with diameter (set)	Ū	Counter support span (min max.)
 	Projection (from to)		Length of jaws	Power	Clamping force
	Clamping thread		Jaw width		Diameter of the impact insert
	Shore hardness		Head length	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Beater insert filling quantity
	Length of the blade		Width across flats connecting nut	SW ♠	Width across flats
	Width of the T-handle	→ I I → I mm	Length of the screwdriver blade		Clamping jaw width
Ð	Fork opening (jaw opening)	O	Diameter of the circlip	Ö	Diameter of the tip
	Length of the tip (pin punch)	Ø	Shank diameter	<u></u>	Width across flats
mm	Blade width	mm	Blade length	Ø	Hole diameter
of mm	Length of cutting edge		Sheet thickness max. (steel)	X	> Cutting direction
	Length of the handle	I mm	Total width (for multi-position holders)	mm	Total depth (for multi-position holders)
ΑĪ	Font height set		Wire thickness	∮ ⊗mm	Handle diameter
<u> </u>	Blade width screwdriver	mm	Blade thickness	\bigoplus	Phillips profile
Ø	Diameter (several)	mm	Length of cutting edge set	Ø	Diameter of tip set
max.	Max. Jaw opening		Clamp grip dimensions		Shank length
	Width of T-handle (set)	•	Number of pressure pieces	Ø	Diameter of punching insert
	Clamping width pliers		Thread diameter screw (min - max)	←→	Mounting square
$\bigcup_{ \longleftarrow }$	Diameter of the piston ring (min - max)		Clamping diameter (min - max)	ØĴ=₩₩	Spring diameter (min - max)
<u> </u>	Spring clamping range (min - max)		Valve spring insertion depth (min max.)		Span width / extension clamp
<u> </u>	Cross-section of the slide rail	4	Maximum current	KOMBINERAR	Hook sets Suitable for (list)

<u>}</u>	Spindle thread dimension		Mounting thread for tension bolt		Screw-in length of the thread adapter
	For hand taps according to DIN 352		For hand reamers according to DIN 206		Clamping range for square mounts
	Shank width	A Ī	Font height		Flankenwinkel
	Thread pitch	KOMBINERBAR COMBINABLE	Beating insert fits	ĪŢ	Total length of the spindle
######################################	Stud bolt diameter	<u></u> <u></u>	Leg length, short		Leg length, long
L ←—→	Length to be extended	KOMBINEBAR	Spare part from		Separating pull-off span (min max.)
	Thread dimension (set)	<u>•</u>	Outer diameter	Ţ	Diameter of the fork opening
	Diameter of the bolt circle	耳	Lever clamping range	P	Max. torque (hydraulic)
	Fork height (jaw height)		Fork thickness at the tip, K		Diameter of the impact sleeves
	Length of the impact sleeves		For ball bearings with outside diameter		Outer diameter of impact sleeves
ŢĪ,	Diffuser width	LH	Diffuser height	H	Total height of press frame
	Stroke of the cylinder		Angle of the swivel unit		Diameter of the flanges
Ø min. mm	Minimum screw hole diameter	<i>[</i>] _ L	Chain length	res_{Γ}	Chain length balanced
ĄŢ	Chain length Y-strand		Bolt spacing	©©© mm	Width of the chain passage
	Diameter of the ejector pins		Suitable for chain pin diameter	mm mm	Radius of the rounding pins
	Sheet thickness	<u>Ī</u>	Height of the cylinder	L	Total length of tools (set)
	Diameter of the interchangeable thrust pads	İ	Mounting diameter of thrust piece	11	Length of concave
11	Length of the panel	‡]	Length of the tip	Ømm ·	Outer diameter
•	Inner diameter	mm	Blade length of the tools (set)	Ø	Hole diameter set
	Thread diameter screw set (min - max)	←→	Receptacle square set	L ←→	Extensions set
SW 	Width across flats hexagon socket (set)		Width of the tarpaulin		Height of the tarpaulin
	Diameter of the barometer	[] [] [] [] [] []	Division of the scale of the barometer	Ø	Max. Rivet diameter

	Suitable for fork tubes with diameter	Щ	Span of counter support (min max.)	İψ	Clamping depth (min.)
	Length of the slide hammer		Impact distance		Diameter of fork opening set
mm	Chisel cutting edge width set	0	Width across flats of the nut (min - max)	Ô	For strength classes of the nut
Ø	Body diameter	Ø	Diameter of the oil filter	<u></u>	Square drive
	Adapter square socket		Hexagon drive		Collar diameter of the power groove
	Thread dimension of the power groove		Total height of the power groove		Diameter of the bolt hole circles (set)
	Length of the stud extractor		Diameter of the stud extractor	L ←—→	Total length (set)
	Stroke cylinder width		Stroke-cylinder length		Stroke-cylinder height
•	Usable oil volume		Total width of hydraulic cylinder		Total depth of hydraulic cylinder
	Total height of hydraulic cylinder		Outer diameter of hydraulic pressure piece		External thread pressure cylinder
	Internal thread hydraulic cylinder		Internal thread hydraulic pressure piece		Overall length of case
	Total case depth		Total case height	max. kg	Load capacity
Ħ	Chisel cutting edge width	Ø	Cutting range (diameter) (min - max)		Piston ring clamping height
 ↔	Clamping range (min - max)	+ 1	Width of the base unit	femme	Drill diameter
<u> </u>	Spread range (min - max)	KOMBINERBAR CONSTINUELE	Suitable hydraulic spindles (list)	Ĩ	Diameter of the center point
1	Diameter of the centering tip set		Clamping depth (min max.)	()	Clamping depth of counter support
F → mm	Total cutting edge height	† mm	Cutting edge thickness at the tip	T mm	Rear cutting edge thickness
T mm	Usable snow depth	<u> </u>	Span (min max.)	†† †	Clamping depth
	Internal thread of the spindle		Width of hooks	Imm	Hook thickness
‡ mm	Insertion depth of internal puller	∏ 5 √ ⊩ Ø	Diameter of the bearing adapter	3	External thread of the spindle
J <u></u>	Hook length (min max.)	Jx	Number of hooks	Ð	Fork opening
O	Sealing diameter (max)	\$£	Outer diameter of the extension	SW →	Width across flats

PRODUCT DETAILS



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