



A world **in motion** since 1919!



# General catalogue





# KUKKO tool factory a world in motion since 1919!

KUKKO Werkzeugfabrik Kleinbongartz & Kaiser oHG is the manufacturer of extractor tools for users in trade and industry.

In 1919, Kleinbongartz & Kaiser oHG, the core company of today's KUKKO Group, was founded by Alfred Kleinbongartz and his brother-in-law Emil Kaiser in Remscheid, the centre of the German tool industry.

As of October 2013, the company location is in Hilden. KUKKO has been an independent, owner-run family company for four generations and is one of the world's leading producers of extractor tools of all kinds.

From the very beginning, KUKKO specialized in the development and manufacturing of extractor tools for the non-destructive dismounting of gears, bearings, ball bearings and similar components in all areas of technology. To this day, the product lines, extractor tools and dismounting tools are the core business of the KUKKO Group.

Numerous German and foreign patents, registered designs, and utility models bear witness to the intensive, continuous and successful development work.

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# Hilden Logistics Center

State-of-the-art storage technology - Global distribution - Supply capability as a success factor

An optimized organization, state-of-theart data technology and the new, automated small parts warehouse at the Hilden location guarantee that 95 per cent of customer orders received at the factory are shipped within 24 hours. In the tool industry, this warehouse is the most modern of its kind. In addition to shipping, it also supplies our company's production.







# Innovation, competence, quality, service and customer proximity

have for decades been the foundation of the company's success in the world's markets. More than 60% of production is exported and sold worldwide in more than 100 countries.

The success with more than 150 extractor types in more than 500 different implementation sizes has, over time, resulted in the KUKKO brand name becoming synonymous with extractor tools. Strict adherence to the requirements of the customer benefit – as well its modernity, high technical competence, significant financial power, and timely customer service – has made KUKKO an esteemed partner of the retail trade and one of the top European system suppliers in the workshop area of the automotive industry.

UKKO

**ool factory** tion, design

# Design and modeling

3D printing technology in the early design phase

The tradition of technical drawing on paper was digitalized a long time ago. Today, an engineer can use professional CAD applications for the design and construction of technical solutions. They can be used to create a virtual model of three-dimensional objects using a computer. One great advantage here is the spatial representation of the object as needed.



Meanwhile, it is also possible to quickly create the previously produced 3D model with cutting-edge printing technology early on in the design phase.

# Knowledge management

Shorter distances, faster design

With the integration of Confluence into the operation, the current design status of any product can be viewed at any time. Using defined data on deadlines and allocation to teams and people, what is missing, who is responsible, and when the task must be completed can all be seen at a glance.

> Project status and deadlines globally visualized.

The schedule for the development of a new tool is designed and established from the start through to completion. The clear allocation of tasks and their due dates help prevent unnecessary down times. The development phase is significantly optimized with Confluence.

The customer can also see the transparency of the product development. Specific customer projects can always be monitored and, if necessary, immediately corrected.

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# ThinkPat



# Puller guide

# Use our guide to pullers to help quickly and safely select the right puller.

Not sure which puller is the right one for you? Our guide will ensure that you find the puller best suited for your application. Whether external pulling, interior extraction, separating pulling, or the fitting and removal of ball bearings, you can find the right tool for every application. The guide also serves as a textbook for pulling applications and is available in seven languages.

You can find it under the download section in the service area of our website.



# **TURNUS** catalogue

# Our TURNUS line of products is specially designed for bolting, tensioning, clamping, striking, and marking jobs.

Any time you need to clamp something in place or mark something, the TURNUS catalogue has the solution for your application. Hand vises, screw clamps, door clamps, vises, screwdrivers, pin wrenches, punching and cutting, signing and marking as well as arc-free tools are part of the product range. You can download the current catalogue under downloads in the service area of www.KUKKO.com. Our website also offers you fast access to all TURNUS products via the TURNUS products tab.



KUKKO produkte

uBen-Abzlehen

Ausziehen

# Information about the KUKKO product range

You can find this on our homepage www.kukko.com

We have made plenty of information available for you in the download area. You will also find detailed information and application videos concerning the product.

Would you like to order spare parts? You can do this quickly and easily, because almost all the components are available and numbered as spare parts. In the service area of our homepage, you will find the spare parts list for downloading.

# Videos

The videos will help you with any questions you may have about the application of our tools.

KUKKO Werkzeugfabrik

TURNUS Produkts

What is the proper way to use the tool? The application video is a quick illustration of the safe and correct use of our tools. Almost all our tools have a QR code that you can scan with your smartphone to directly access the corresponding video. All videos are provided directly on your YouTube channel www.youtube.com/kukkotools.



www.youtube.com/kukkotools



# The 4 puller principles

**KUKKO tool factory** The 4 puller principles



# PULLERS -

these original KUKKO designs have been known for decades and have proven themselves in a wide range of application areas worldwide. KUKKO has a very large range of various types of pullers.

## Pullers with sliding, parallel jaws

- Parallel pulling hooks in every position, even with full load.
- Turning the pulling hooks enables them to be used both internally and externally.

## Pullers with swivelling jaws

• The larger the pulling force, the stronger the puller hook's grip on the workpiece to be removed.

## Pullers with self-centering jaws

 Automatic self-tensioning and self-centering pulling hooks auto grip.

# Pullers with reversible jaws

 The pulling hooks are reversible and can be used on both sides with various different types of hooks.

# Pullers with side clamp

- Clamps increase the pressure of the hooks significantly and prevent the puller from slipping.
- When the tension clamp is tightened, the pulling jaws grip below the part to be removed and loosen it before the actual removal process.

# Pullers with adjustable jaws

 The Alligator conversions ensure that the pulling hooks can only be opened and closed by operating the adjustment spanner.
 The grip of the conversions is therefore as strong as an alligator's bite.





# External extracting Außen-Abziehen

# 01

Selection of the right external puller <b>12</b> Auswahl des richtigen Außen-Abziehers
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# Selection of the right external puller



(a)

**(b)** 

 $(\mathbf{C})$ 



# **1st step:** Measuring the space available



- diameter depth available space
  - defines the spreadsdefines max. reach
  - defines the size of the puller jaw
    - / 194-199





A normal amount of pressure is required.

www.KUKKO.com



**Puller with** 

mechanical pressure spindle

High pressure is required because the part to be removed is particularly secure, or rusted.



**Puller with** long hydraulic spindle

**<u>4th step:</u>** Select model

The selected pulling tool normally states the necessary power and pulling force. However, in order to be absolutely sure, you should always choose the largest possible model for dimension ranges which cross over.

Detailed dimension and performance details for all models can be found at www.KUKKO.com

For example:	
	<u>1st step:</u> Measuring the space available
Diameter: Depth: Available space:	142 mm / 120 mm / 135 mm 135 mm / 120 mm / 220 mm unlimited
	2nd step: Selection of puller type
Specification: Target: <b>According to the</b>	There must be pulled various bearings at different depths. We are looking for a puller which can be individually adapted. puller guide should be used pullers with sliding puller arms that are always parallel.
	<u>3rd step:</u> How much force is needed?
The bearings are o According to the	n the shaft. puller guide should be used a puller with a mechanical spindle.
	4th step: Select model
The decision falls t Advantage: • with the 3-jaw me • You can adjust yo	KUKKO website choose the pullers from series 20 and 30 in size 2. o : 30-2+ odel, you have the best possible load distribution and a particularly secure hold. ur puller to the relevant reach by buying the extensions. ng capability allows the reach to be changed quickly.



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You should always give a 3-jaw puller preference if the access conditions permit. The uniform load distribution guarantees a particularly secure hold on the to be extracted part.

# **Mode of operation**

# STANDARD



External pulling is the most common type of pulling. The part to be extracted such as a gear wheel, pulley or ball bearing, is gripped from the outside. The part is loosened from the shaft by the pull of the pressure screw.

# as INTERNAL extractor



The external pullers can also be used as internal extractors by turning the jaws.

Important: When used as internal extractors, a fixed center point is required to brace the pressure screw of the products in these series.

# Accessories: Modular extensions



For the 20 and 30 series, we offer modular extensions. If the part to be removed sits deep on a shaft, jaw extensions will be needed.

# Accessories: Side clamp



The side clamp is available separately (No. 219-1). It is attached to the puller jaw after the puller has been fitted and prevents slippage of the puller jaw under very high forces.

# Accessories: Grease hydraulic pressure spindle



The hydraulic spindle ensures controlled and secure operating of 7-20 t. It uses the entire capability of the puller, over and above what can be achieved with a mechanical spindle. When replacing a mechanical spindle with a hydraulic one, there is also a considerable reduction in the drive force which needs to be used.

# Sliding-arm pullers with constantly parallel jaws

# Accessories: auxiliary grease hydraulic rams



# For use with mechanical KUKKO pullers from size 3.

The auxiliary grease hydraulic rams are a good tool for significantly increasing the pressure when removing very secure parts. The hydraulic rams are simply secured between the spindle and shaft with the mechanical spindle. **No conversion of the puller is needed!** 

# **Accessories: Puller jaws**

Pullers in series 20 and 30 can easily be adjusted using different puller jaws lengths and types.

# Which puller jaws are right for which puller?

The puller jaws that start with -1	fit all pullers of size -1 and -10
The puller jaws that start with -2	fit all pullers of size <b>-2</b> and <b>-20</b>
The puller jaws that start with -3	fit all pullers of size <b>-3</b> and <b>-30</b>
The puller jaws that start with -3	can also use by the pullers of size <b>-4</b> and <b>-40</b>

# Example:

- **20-2** has the puller jaws 2-150-P
  - 🕨 can also use: 2-151-P; 2-152-P; 2-153-P
  - can also use long puller jaws such as: 2-300-P; 2-301-P; 2-302-P; 2-303-P

# **Safety instructions**



The puller must be centrally positioned for center shafts. If the shaft is not centered, pulling with parallel jaws may result asymmetrical pulling.



The jaws must be set firmly and completely against the cross-beam.



If there are several parts to be pulled, always remove them one-by-one. Never remove several parts simultaneously.



If there is adequate free space around the part, we recommend a 3-jaw puller for optimal force distribution.



Jaws must always be positioned directly below the part to be removed.



A 2-jaw puller is always used in situations where there is insufficient space for a 3-jaw puller.





# 2-jaw pullers



#### Description

- Standard pulling hook.
- Parallel pulling hooks in every position, even with full load.
- Pulling hooks with infinitely variable adjustment on the cross-beam.
- Optimal adjustment of the spindle to the shaft with 2-sided spindle tip.
- Mechanical pressure spindle

#### Advantage

- Can be installed on various pulling hooks and variable reach thanks to jaw extensions.
- Turning the pulling hooks enables them to be used both internally and externally.
  - Suitable for pulling asymmetric workpieces.
- Spindle head band prevents the wrench from slipping off.
- Cross-beam, up to size -30, includes hexagonal profile for holding.

Art No.	4021176	<b>لب</b> mm	mm Į	 ↓ mm	max. t	ਜ਼ਾਂ max. Nm
20-1	-009433	90	100	17	4,5	80
20-10	-009921	120	100	17	4,5	80
20-2	-009501	160	150	22	6,0	150
20-20	-010088	200	150	22	6,0	150
20-3	-009686	250	200	27	8,5	300
20-30	-010163	350	200	27	8,5	300
20-4	-009761	520	200	36	12	400
20-40	-411861	650	300	36	12	400
20-5	-009846	750	400-700	41	15	650

## Universal 2-jaw puller with long hydraulic spindle(including mechanical pressure screw)

For pulling particularly tight bearings, gears, discs, etc.



# Description

- Grease hydraulics. Standard pulling hook.
- Parallel pulling hooks in every position, even with full load.
- Pulling hooks with infinitely variable adjustment on the cross-beam.
- Hydraulic and mechanical pressure screw.

#### Advantage

- Easy and even pulling for particularly tight parts. Variable reach thanks to jaw extensions, available up to a puller size of -30.
- Optional conversion to various jaw types for mechanical use. Turning the pulling hooks enables them to be used both internally and externally.
- Suitable for pulling asymmetric workpieces.

Art No.	<b>4</b> 021176	mm	mm Į	↓   mm	t t	mit with
20-2-B	-885815	160	150	12; 22	7	8-01
20-20-В	-885846	200	150	12; 22	7	8-01
20-3-B	-885891	250	200	12; 27	10	8-02
20-30-В	-885945	350	200	12; 27	10	8-02
20-4-B	-885983	520	200	36	15	8-1-B
20-40-В	-886010	650	300	36	15	8-1-B

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# Universal 2-jaw puller with extended jaws

For removing bearings, gears, discs, etc.





#### Description

- Extended standard puller hook.
  - Parallel pulling hooks in every position, even with full load.
  - Pulling hooks with infinitely variable adjustment on the cross-beam.
- Optimal adjustment of the spindle to the shaft with 2-sided spindle tip.
- Mechanical pressure screw.

#### Advantage

- Can be installed on various pulling hooks and variable reach thanks to jaw extensions. Turning the pulling hooks enables them to be used both internally and externally.
- Suitable for pulling asymmetric workpieces. Spindle head band prevents the wrench from slipping off.
- Cross-beam, up to size -30, includes hexagonal profile for holding.

Art No.	<b>                                     </b>	mm	mm Į	 ⊢→  mm	max. t
20-1-2	-466311	90	200	17	4,5
20-1-25	-914362	90	250	17	4,5
20-1-4	-989643	90	400	17	4,5
20-10-2	-466496	120	200	17	4,5
20-10-25	-908682	120	250	17	4,5
20-10-4	-989650	120	400	17	4,5
20-2-3	-466564	160	300	22	6,0
20-20-3	-466649	200	300	22	6,0
20-3-25	-901188	250	250	27	8,5
20-3-3	-466724	250	300	27	8,5
20-3-4	-467066	250	400	27	8,5
20-3-5	-467301	250	500	27	8,5
20-30-3	-466809	350	300	27	8,5
20-30-4	-467141	350	400	27	8,5
20-30-5	-467486	350	500	27	8,5
20-4-3	-466984	520	300	36	12,0
20-4-4	-467226	520	400	36	12,0
20-4-5	-467554	520	500	36	12,0
20-40-4	-730641	650	400	36	12,0
20-40-5	-731976	650	500	36	12,0

# Sales display for 2-jaw pullers

#### For removing bearings, gears, discs, etc.



Descriptio	
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- The sales and workshop stands enable 2-jaw pullers to be stored and presented safely.
- Standard pulling hook. Parallel pulling hooks in every position, even with full load.
- Pulling hooks with infinitely variable adjustment on the cross-beam.
- Optimal adjustment of the spindle to the shaft with 2-sided spindle tip.

#### Advantage

- Can be installed on various pulling hooks and variable reach thanks to jaw extensions.
- Turning the pulling hooks enables them to be used both internally and externally.
- Suitable for pulling asymmetric workpieces.
- Spindle head band prevents the wrench from slipping off.
- Cross-beam with hexagonal profile for good grip.

Art No.	4021176	<b>بنا</b> mm	mm Ī	 ⊢ mm	max. t		Stück pieces
20-ST	-010248	90 - 250	100 - 200	17-27	4,5 - 8,5	20-1, 20-10, 20-2, 20-20, 20-3, 20-STL	5





# Universal 2-jaw puller with long hydraulic spindle and extended jaws(including mechanical pressure screw)

For pulling particularly tight bearings, gears, discs, etc.

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#### Description

- Grease hydraulics.
  - Extended standard puller hook.
  - Parallel pulling hooks in every position, even with full load.
- Pulling hooks with infinitely variable adjustment on the cross-beam.
- Hydraulic and mechanical pressure screw.

#### Advantage

- Easy and even pulling for particularly tight parts.
- Optional conversion to various jaw types for mechanical use.
- Variable reach thanks to jaw extensions, available up to a puller size of -30.
- Turning the pulling hooks enables them to be used both internally and externally.
- Suitable for pulling asymmetric workpieces.

Art No.	4021176	mm	<b>∏</b> <u>]</u> mm	⊷  mm	t t	mit with
20-2-3-В	-885808	160	300	12; 22	7	8-01
20-20-3-B	-885839	200	300	12; 22	7	8-01
20-3-3-В	-885860	250	300	12; 27	10	8-02
20-3-4-B	-885877	250	400	12; 27	10	8-02
20-3-5-B	-885884	250	500	12; 27	10	8-02
20-30-3-B	-885914	350	300	12; 27	10	8-02
20-30-4-B	-885921	350	400	12; 27	10	8-02
20-30-5-B	-885938	350	500	12; 27	10	8-02
20-4-3-B	-885952	520	300	36	15	8-1-B
20-4-4-B	-885969	520	400	36	15	8-1-B
20-4-5-B	-885976	520	500	36	15	8-1-B
20-40-4-B	-885990	650	400	36	15	8-1-B
20-40-5-B	-886003	650	500	36	15	8-1-B

# Universal 2-jaw puller, in set

For removing bearings, gears, discs, etc.



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- Standard pulling hooks in various lengths.
- Parallel pulling hooks in every position, even with full load.
  - Pulling hooks with infinitely variable adjustment on the cross-beam.
- Optimal adjustment of the spindle to the shaft with 2-sided spindle tip.
- Mechanical pressure screw.

#### Advantage

- Variable reach thanks to optional jaw extensions.
- Can be installed on various pulling hooks.
- Turning the pulling hooks enables them to be used both internally and externally.
- Suitable for pulling asymmetric workpieces.
- Spindle head band prevents the wrench from slipping off.

Art No.	4021176	mm t	<b>أ</b> mm	 ↓ ↓   mm	max. t	mit with
20-10-P3	-267611	120	100/200/250/350	17	4,5	1-90-P, 1-190-P, 1-250-P
20-20-P2	-003004	200	150/300	17	6	2-150-P, 2-300-P
20-30-P3	-003011	350	200/300/400	19	8,5	3-200-P, 3-300-P, 3-400-P

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# External extracting

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## Set of universal 2- and 3-jaw pullers

## For removing bearings, gears, discs, etc.



Art No.	4021176	mm	mm	 ⊷   mm	max. t	
K-2030-10	-974748	120 - 130	100 - 350	17	4,5 - 6,0	L-Boxx

Turning the pulling hooks enables them to be used both internally and externally.

The set facilitates the assembly of eight different pulling device models through the combination of

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# For removing large bearings, gears, discs, etc.



Description

Advantage

- The set facilitates the assembly of seven pulling device models through the combination of pulling
- The rugged construction is particularly suitable for large and heavy applications in industrial and commercial vehicles.
- Flexibility assured thanks to two-arm or three-arm design.
- Standard pulling hook.

#### Advantage

- Practical package for universal use.
- Variable reach thanks to optional jaw extensions.
- Can be installed on various pulling hooks.
- Suitable for pulling asymmetric workpieces.



Art No.	4021176	<b>أ</b> mm	mm	 ↓ mm	max. t	
K-2030-20	-161360	150 - 600	200	24	6	L-Boxx

The set facilitates the assembly of 14 pulling device models through the combination of hydraulics,

The rugged construction is particularly suitable for large and heavy applications in industrial and

## Universal hydraulic 2-jaw and 3-jaw puller set





Art No.	4021176	mm mm	mm	 ⊢ mm	mit with		
K-2030-20-B	-123269	150 - 600	200	24	8-01	7	L-Boxx

et of universal	2- and 3-j	aw pullers



7 in 1" kit in the tried-and-tested KUKKO-L-Boxx system.

8 in 1 kit in the tried-and-tested KUKKO-L-Boxx-System.

Flexibility assured thanks to two-arm or three-arm design.

pulling jaws and extensions.

Practical package for universal use.

Variable reach thanks to optional jaw extensions. Can be installed on various pulling hooks.

Suitable for pulling asymmetric workpieces.

Standard pulling hook. Jaw extensions.

- jaws and extensions.

14 in 1" kit in the tried-and-tested KUKKO-L-Boxx system.

Flexibility assured thanks to two-arm or three-arm design.

- Turning the pulling hooks enables them to be used both internally and externally.



pulling jaws and extensions.

commercial vehicles.

Standard pulling hook.

Description

Advantage

# KUKKO **BOX** AND **BOX** SYSTEM

- Save keeping of the tools in special foam
- Instructions in the cover always remain visible with:
  - Statement of contents
  - Usage diagrams
  - Safety notes
- If you register online, the manufacturer's guarantee increased to 5 years.
- KUKKO special sliding grease for pressure spindle included.
- Completeness easy to check at a glance
- Connectable with the systems of other well known manufacturers

# **ONE SYSTEM. A LOT OF POSSIBILITIES.**

With the KUKKO-i and L-BOXX-System you get all opportunities. You can equip it with insert-boxes, thermo formed parts, foam inlets and different applications for the lid. Your tools, small parts or spare parts will be kept and transported safely and well arranged. The KUKKO-i and L-BOXX-System is the perfect mobile solution and can be integrated easily into most vehicles.









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The new front handle for easy carrying the proven L-Boxx





INSERT-BOXES

LOCKABLE

MAX. LOAD 100 KG



CAR HOLDER + CRASHSAFE



# ST

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01

# **Universal 3-jaw pullers**

For removing bearings, gears, discs, etc.



Descri	ption

- Standard pulling hook.
  - Parallel pulling hooks in every position, even with full load.
  - Pulling hooks with infinitely variable adjustment on the cross-beam.
  - Optimal adjustment of the spindle to the shaft with 2-sided spindle tip.
  - Mechanical pressure screw.

#### Advantage

- Can be installed on various pulling hooks and variable reach thanks to jaw extensions. Turning the pulling hooks enables them to be used both internally and externally. Suitable for pulling asymmetric workpieces. Spindle head band prevents the wrench from slipping off.

- Almost all components available as replacement parts, time-saving order process thanks to numbe-
- ring system.

Art No.	4021176	mm	mm t	⊷  mm	max. t	ଟ୍ଟ max. Nm
30-1	-013393	90	100	17	6	80
30-10	-013621	130	100	17	6	80
30-2	-013478	160	150	22	7	150
30-20	-013706	200	150	22	7	150
30-3	-013546	250	200	27	10	250
30-30	-303005	350	200	27	10	250
30-4	-303302	375	200	36	15	500
30-40	-303319	520	200	41	15	500
30-5	-303326	650	300500	41	20	650

# Universal 3-jaw puller with long hydraulic spindle



#### Description

- Grease hydraulics.
- Standard pulling hook.
- Parallel pulling hooks in every position, even with full load.
- Pulling hooks with infinitely variable adjustment on the cross-beam.
- Hydraulic and mechanical pressure screw.

# Advantage

Easy and even pulling for particularly tight parts.

- Optional conversion to various jaw types for mechanical use. Adjustable depth thanks to jaw extensions, available up to a puller size of -30. Turning the pulling hooks enables them to be used both internally and externally.
- Suitable for pulling asymmetric workpieces.

Art No.	4021176I	mm m	mm Ī	↓↓  mm	t t	mit with
30-2-B	-886317	160	150	12	7	8-01
30-20-B	-886348	200	150	12	7	8-01
30-3-B	-886393	250	200	12	10	8-02
30-30-В	-303104	350	200	12	10	8-02

# Universal 3-jaw puller with extended jaws

For removing bearings, gears, discs, etc.





#### Description

Extended standard puller hook.

- Parallel pulling hooks in every position, even with full load.
- Pulling hooks with infinitely variable adjustment on the cross-beam.
- Optimal adjustment of the spindle to the shaft with 2-sided spindle tip.
- Mechanical pressure screw.

#### Advantage

- Can be installed on various pulling hooks and variable reach thanks to jaw extensions.
- Turning the pulling hooks enables them to be used both internally and externally.
- Suitable for pulling asymmetric workpieces.
- Spindle head band prevents the wrench from slipping off.
- Almost all components available as replacement parts, time-saving order process thanks to numbering system.

Art No.	14021176	<b>rit</b> mm	<b>أ</b> لًى mm	 ↓ →  mm	max. t
30-1-2	-730726	90	200	17	6
30-10-2	-730801	130	200	17	6
30-2-3	-730986	160	300	22	7
30-20-3	-731068	200	300	22	7
30-3-25	-901256	250	250	27	10
30-3-3	-731143	250	300	27	10
30-3-4	-731228	250	400	27	10
30-3-5	-731303	250	500	27	10

## Universal 3-jaw puller with long hydraulic spindle and extended jaws(including mechanical pressure screw)

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For pulling particularly tight bearings, gears, discs, etc.



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Descri	ption

Grease hydraulics.

- Extended standard puller hook.
- Parallel pulling hooks in every position, even with full load.
- Pulling hooks with infinitely variable adjustment on the cross-beam.
- Hydraulic and mechanical pressure screw.

#### Advantage

- Easy and even pulling for particularly tight parts.
- Optional conversion to various jaw types for mechanical use.
- Adjustable depth thanks to jaw extensions, available up to a puller size of -30.
- Turning the pulling hooks enables them to be used both internally and externally.
- Suitable for pulling asymmetric workpieces.

Art No.	14021176	mm t	mm Į	 ⊷   mm		mit with
30-2-3-B	-886300	160	300	12	7	8-01
30-20-3-B	-886331	200	300	12	7	8-01
30-3-3-B	-886362	250	300	12	10	8-02
30-3-4-B	-886379	250	400	12	10	8-02
30-3-5-B	-886386	250	500	12	10	8-02

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#### Universal 3-jaw puller-set

# For removing bearings, gears, discs, etc.



•	Mechanical pressure screw.
Adva	ntage
	Variable reach thanks to optional jaw extensions.
	Can be installed on various pulling hooks.
	Turning the pulling hooks enables them to be used both internally and externally.
	Suitable for pulling asymmetric workpieces.
	Spindle head band prevents the wrench from slipping off.

Parallel pulling hooks in every position, even with full load. Pulling hooks with infinitely variable adjustment on the cross-beam. Optimal adjustment of the spindle to the shaft with 2-sided spindle tip.

Standard pulling hooks in various lengths.

Art No.	4021176	mm t	<b>ر أ</b> mm	⊥  mm	max. t
30-10-P3	-111136	130	100/200/250/350	17	6
30-20-P2	-111150	200	150/300	22	7
30-3-P3	-111174	250	200/300/400	27	10

#### Universal 2-jaw puller with narrow jaws

For removing bearings, gears, discs, etc. for tight or difficult-to-access spaces.



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#### Thin pulling hooks.

- Parallel pulling hooks in every position, even with full load.
- Pulling hooks with infinitely variable adjustment on the cross-beam.
- Optimal adjustment of the spindle to the shaft with 2-sided spindle tip.
- Mechanical pressure screw.

#### Advantage

Description

Description

- The thin pulling hooks are suitable for narrow, difficult-to-access locations.
- Can be installed on various pulling hooks and variable reach thanks to jaw extensions.
- Turning the pulling hooks enables them to be used both internally and externally.
- Suitable for pulling asymmetric workpieces. Spindle head band prevents the wrench from slipping off.

Art No.	4021176	mm t	mm Į	 ↓ mm	max. t	₩ max. Nm
20-1-S	-757396	90	100	17	2,5	35
20-10-S	-757471	120	100	17	2,5	35
20-2-S	-727368	160	150	22	5	120
20-20-S	-727443	200	150	22	5	120
20-3-S	-727511	250	200	27	7	220
20-30-S	-727696	350	200	27	7	220

## Sales display for 2-jaw puller with narrow jaws

Glide CFIX ARMOCK SWITCHOLINS

For removing bearings, gears, discs, etc. for tight or difficult-to-access spaces.

# Description

- . The sales and workshop stands enable 2-jaw pullers to be stored and presented safely.
- Thin pulling hooks.
- Parallel pulling hooks in every position, even with full load.
- Pulling hooks with infinitely variable adjustment on the cross-beam.
- Optimal adjustment of the spindle to the shaft with 2-sided spindle tip.

#### Advantage

- The thin pulling hooks are suitable for narrow, difficult-to-access locations.
- Can be installed on various pulling hooks and variable reach thanks to jaw extensions.
- Turning the pulling hooks enables them to be used both internally and externally.
- Suitable for pulling asymmetric workpieces.
- Spindle head band prevents the wrench from slipping off.

Art No.	4021176	mm t	mm mm	 ↓ mm	max. t		Stück pieces
20-ST-S	-906282	90 - 250	100 - 200	17-27	2,5 - 7,0	20-1-S, 20-10-S, 20-2-S, 20-20-S, 20-3-S, 20-STL	5

www.KUKKO.com

# 2-jaw puller with narrow jaw, in set

For removing bearings, gears, discs, etc. for tight or difficult-to-access spaces.





<ul><li>Turning</li><li>Suitable</li></ul>	Suitable for pulling asymmetric workpieces.									
Art No.	4021176	<b>T</b>			max.	mit with				
		mm	mm	mm	t					
20-10-SP	-461514	120	100/200/250/350	17	2,5	1-91-P, 1-191-P, 1-251-P				
20-20-SP	-701856	200	150/300	22	5	2-151-P, 2-301-P				
20-30-SP	-701931	350	200/300/400	27	7	3-201-P, 3-301-P,				

# Set of two- and three-arm pullers with narrow jaws

For removing bearings, gears, discs, etc. for tight or difficult-to-access spaces.

#### Description

Description

Advantage

Thin pulling hooks in various lengths.

Mechanical pressure screw.

Parallel pulling hooks in every position, even with full load. Pulling hooks with infinitely variable adjustment on the cross-beam. Optimal adjustment of the spindle to the shaft with 2-sided spindle tip.

Variable reach thanks to optional jaw extensions. Can be installed on various pulling books

- 8 in 1 kit in the tried-and-tested KUKKO-L-Boxx-System.
- The set facilitates the assembly of eight different pulling device models through the combination of pulling jaws and extensions.
- Flexibility assured thanks to two-arm or three-arm design.
- Thin pulling hooks.
- Jaw extensions.

#### Advantage

- Practical package for universal use.
- Can be installed on various pulling hooks and variable reach thanks to jaw extensions.
  - Turning the pulling hooks enables them to be used both internally and externally.
- Suitable for pulling asymmetric workpieces.
- 2-jaw cross-beam with hexagonal profile for good grip.

Art No.	4021176	mm t	mm Į	↓ mm	max. t		
K-2030-10-S	-306181	120 - 130	100 - 350	17	3	614250, 20-10-SP, 30-10-SP	L-Boxx

# Set of two- and three-arm pullers with narrow jaws

Description

- 7 in 1" kit in the tried-and-tested KUKKO-L-Boxx system.
- The set facilitates the assembly of seven pulling device models through the combination of pulling jaws and extensions.
- Flexibility assured thanks to two-arm or three-arm design.
- Narrow pulling jaws.
- Jaw extensions.

#### Advantage

- Practical package for universal use.
- The thin pulling hooks are suitable for narrow, difficult-to-access locations.
- Variable reach thanks to optional jaw extensions.
- Can be installed on various pulling hooks.
- Turning the pulling hooks enables them to be used both internally and externally.

Art No.	4021176	mm	mm T	↓  mm	max. t	
K-2030-20-S	-123276	200	150 - 600	24	5	L-Boxx



3-401-P

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# Universal 3-jaw puller with narrow jaws

For removing bearings, gears, discs, etc. for tight or difficult-to-access spaces.



- Description
  - Thin pulling hooks.
  - Parallel pulling hooks in every position, even with full load.
- Pulling hooks with infinitely variable adjustment on the cross-beam Optimal adjustment of the spindle to the shaft with 2-sided spindle tip.
- Mechanical pressure screw.

#### Advantage

- The thin pulling hooks are suitable for narrow, difficult-to-access locations.
- Can be installed on various pulling hooks and variable reach thanks to jaw extensions.
- Turning the pulling hooks enables them to be used both internally and externally.
- Suitable for pulling asymmetric workpieces.
- Spindle head band prevents the wrench from slipping off.



Art No.	4021176	Ţ			max.	ਰੂ max.
		mm	mm	mm	t	Nm
30-1-S	-727771	90	100	17	3	40
30-10-S	-728198	130	100	17	3	40
30-2-S	-727856	160	150	22	5	120
30-20-S	-727931	200	150	22	5	120
30-3-S	-728013	250	200	27	7	220

#### Universal 3-jaw puller with narrow jaws, in set

For removing bearings, gears, discs, etc. for tight or difficult-to-access spaces.



Art No.	4021176	l l l	[ [ ' ] <u>!</u>			max.
		mm	mm	mm	t	Nm
30-1-S	-727771	90	100	17	3	40
30-10-S	-728198	130	100	17	3	40
30-2-S	-727856	160	150	22	5	120
30-20-S	-727931	200	150	22	5	120
30-3-S	-728013	250	200	27	7	220
						ST

#### Description

- Thin pulling hooks in various lengths.
  - Parallel pulling hooks in every position, even with full load.
  - Pulling hooks with infinitely variable adjustment on the cross-beam.
  - Optimal adjustment of the spindle to the shaft with 2-sided spindle tip.
  - Mechanical pressure screw.

#### Advantage

The thin pulling hooks are suitable for narrow, difficult-to-access locations.

- Variable reach thanks to optional jaw extensions.
- Can be installed on various pulling hooks.
- Turning the pulling hooks enables them to be used both internally and externally.
- Suitable for pulling asymmetric workpieces.

Art No.	4021176	mm	<b>أ</b> ر mm	l ⊢ mm	max. t	₩ max. Nm	mit with
30-10-SP	-463839	130	100/200/250/350	17	3	40	1-91-S, 1-191-S, 1-251-S
30-20-SP	-728273	200	150/300	22	5	120	2-151-S, 2-301-S
30-3-SP	-728358	250	200/300/400	27	7	220	3-201-S, 3-301-S, 3-401-S

### Universal 2-jaw puller with extremely narrow jaws

For removing gears, bearings, sprockets, synchronizer bodies, etc., in tight or difficult-to-access spaces.

3	

Description

Advantage

Description

Advantage

Extra-thin trapezoidal pulling hooks.

Suitable for pulling asymmetric workpieces.

Extra-thin trapezoidal pulling hooks.

Mechanical pressure screw.

Mechanical pressure screw.

Parallel pulling hooks in every position, even with full load. Pulling hooks with infinitely variable adjustment on the cross-beam. Optimal adjustment of the spindle to the shaft with 2-sided spindle tip.

Spindle head band prevents the wrench from slipping off.

Parallel pulling hooks in every position, even with full load. Pulling hooks with infinitely variable adjustment on the cross-beam. Optimal adjustment of the spindle to the shaft with 2-sided spindle tip.

Variable reach thanks to optional jaw extensions. Can be installed on various pulling hooks.

Suitable for pulling asymmetric workpieces.

Art No.	4021176	Ţ	<b>T</b> <u>I</u>		max.	max.
		mm	mm	mm	t	Nm
20-1-S-T	-321641	90	100	17	2,5	35
20-10-S-T	-201097	120	100	17	2,5	35

The narrow, trapezoidal pulling jaws are suitable for extremely narrow, difficult to access places. Can be installed on various pulling hooks and variable reach thanks to jaw extensions. Turning the pulling hooks enables them to be used both internally and externally.

# 2-jaw puller with extremely narrow jaws, in set

For removing gears, bearings, sprockets, synchronizer bodies, etc., in tight or difficult-to-access spaces.



Art	4021176	,	<b>t</b> ∱	↓↓	max.	mit
No.		mm	mm	mm	t	with
20-10-SP-T	-321658	120	100/200/250/350	17	2,5	1-94-P, 1-194-P, 1-254-P

The narrow, trapezoidal pulling jaws are suitable for extremely narrow, difficult to access places.

Turning the pulling hooks enables them to be used both internally and externally.

#### Set of universal 2- and 3-jaw pullers with extremely narrow jaws

For removing gears, bearings, sprockets, synchronizer bodies, etc., in tight or difficult-to-access spaces.

Description

- 8 in 1 kit in the tried-and-tested KUKKO-L-Boxx-System.
- The set facilitates the assembly of eight different pulling device models through the combination of pulling jaws and extensions.
- Flexibility assured thanks to two-arm or three-arm design.
- Extra-thin trapezoidal pulling hooks.
- Jaw extensions.

#### Advantage

- Practical package for universal use.
- The narrow, trapezoidal pulling jaws are suitable for extremely narrow, difficult to access places.
- Variable reach thanks to optional jaw extensions.
- Can be installed on various pulling hooks.
- Turning the pulling hooks enables them to be used both internally and externally.



Art No.		4021176	mm	mm Į	max. t		
K-2030-10-	S-T	-852022	120 - 130	100 - 350	3	614250, 20-10-SP-T, 30-10-SP-T	L-Boxx

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# Universal 3-jaw puller with extremely narrow jaws

For removing gears, bearings, sprockets, synchronizer bodies, etc., in tight or difficult-to-access spaces. Description

Extra-thin trapezoidal pulling hooks.

- Parallel pulling hooks in every position, even with full load.
- Pulling hooks with infinitely variable adjustment on the cross-beam Optimal adjustment of the spindle to the shaft with 2-sided spindle tip.
- Mechanical pressure screw.

#### Advantage

Description

- The narrow, trapezoidal pulling jaws are suitable for extremely narrow, difficult to access places.
- Can be installed on various pulling hooks and variable reach thanks to jaw extensions.
- Turning the pulling hooks enables them to be used both internally and externally. Suitable for pulling asymmetric workpieces.
- Spindle head band prevents the wrench from slipping off.

Extra-thin pulling hooks in various lengths.

Parallel pulling hooks in every position, even with full load. Pulling hooks with infinitely variable adjustment on the cross-beam.



Art No.	4021176I	<b>t</b> mm	mm Ī	 ↓ mm	max. t	max. Nm
30-1-S-T	-321689	90	100	17	3	40
30-10-S-T	-321696	130	100	17	3	40

# 3-jaw puller with extremely narrow jaws, in set

For removing bearings, gears, discs, etc. for tight or difficult-to-access spaces.



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	Mechanical pressure screw.
Adva	antage
•	The narrow, trapezoidal pulling jaws are suitable for extremely narrow, difficult to access places.
•	Variable reach thanks to optional jaw extensions.
•	Can be installed on various pulling hooks.
•	Turning the pulling hooks enables them to be used both internally and externally.
	Suitable for pulling asymmetric workpieces.

of the spindle to the shaft with 2-sided spindle tip

	Art No.	4021176	mm t	<b>ر أ</b>	 ↓ mm	max. t	ਚੁ max. Nm	mit with
30	0-10-SP-T	-770272	130	100/200/250/350	17	3	40	1-94-S, 1-194-S, 1-254-S



### Universal 2-jaw puller with quick adjusting jaws For removing bearings, gears, discs, etc.

# Glide GITX ARMOCK Quick adjust SWITCH



- Standard pulling hook with quick adjusting capability quick adjust.
- Parallel pulling hooks in every position, even with full load.
- Pulling hooks with infinitely variable adjustment on the cross-beam.
- Optimal adjustment of the spindle to the shaft with 2-sided spindle tip.
- Mechanical pressure screw.

#### Advantage

- A manual adjustment knurl allows rapid loosening and adjusting of the extractor jaws on the cross-beam without using a wrench.
- Can be installed on various pulling hooks and variable reach thanks to jaw extensions.
- Turning the pulling hooks enables them to be used both internally and externally.
- Suitable for pulling asymmetric workpieces.

	Spindle	head band prevents	the wrench fro	m slipping off.	
NOLOST	Art No.	4021176	mm		
	20-1+	-644771	90	100	
	 20-10+	-644856	120	100	
	20-2+	-644931	160	150	
	20-20+	-645013	200	150	
	20-3+	-645198	250	200	

# Universal 2-jaw puller with long hydraulic spindle and quick adjusting jaws(including mechanical pressure screw)

20-30+

For pulling particularly tight bearings, gears, discs, etc.



# Description

Grease hydraulics.

-645273

- Standard pulling hook with quick adjusting capability quick adjust.
- Parallel pulling hooks in every position, even with full load.
- Pulling hooks with infinitely variable adjustment on the cross-beam.

350

200

Hydraulic and mechanical pressure screw.

#### Advantage

- Easy and even pulling for particularly tight parts.
- A manual adjustment knurl allows rapid loosening and adjusting of the extractor jaws on the cross-beam without using a wrench.
- Optional conversion to various jaw types for mechanical use.
  - Variable reach thanks to jaw extensions, available up to a puller size of -30.
- Turning the pulling hooks enables them to be used both internally and externally.

Art No.	4021176	mm t	mm Į	 ↓ mm	t t	mit with
20-2+B	-885792	160	150	12	7	8-01
20-20+B	-885822	200	150	12	7	8-01
20-3+B	-885853	250	200	12	10	8-02
20-30+B	-885907	350	200	12	10	8-02

#### Sales display for 2-jaw pullers For removing bearings, gears, discs, etc.



#### Description

- The sales and workshop stands enable 2-jaw pullers to be stored and presented safely.
- Standard pulling hook with quick adjusting capability quick adjust.
- Parallel pulling hooks in every position, even with full load.
- Pulling hooks with infinitely variable adjustment on the cross-beam.
- Optimal adjustment of the spindle to the shaft with 2-sided spindle tip.

#### Advantage

- A manual adjustment knurl allows rapid loosening and adjusting of the extractor jaws on the cross-beam without using a wrench.
- Can be installed on various pulling hooks and variable reach thanks to jaw extensions.
- Turning the pulling hooks enables them to be used both internally and externally.
- Suitable for pulling asymmetric workpieces.
- Spindle head band prevents the wrench from slipping off.

Art No.	4021176	mm	mm mm	max. t		Stück pieces
20-ST+	-668944	90 - 250	100 - 200	4,5 - 8,5	20-1+, 20-10+, 20-2+, 20-20+, 20-3+, 20-STL	5

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max.

Nm

80

80

150

150

300

300

ST

ST

max.

t

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8,5

8,5

mm

17

17

22

22

27

27

# External extracting

# Universal 2-jaw and 3-jaw puller set with quick-adjusting pulling jaws

#### For removing bearings, gears, discs, etc.



Descri	ipti	ion

- 8 in 1 kit in the tried-and-tested KUKKO-L-Boxx-System.
- The set facilitates the assembly of eight different pulling device models through the combination of pulling jaws and extensions.
- Flexibility assured thanks to two-arm or three-arm design.
- If there is adequate free space around the part to be removed, we recommend using a 3-jaw puller.
- Standard pulling hooks in various lengths with quick adjusting capability quick adjust.

#### Advantage

Description

Advantage

law extensions

Practical package for universal use.

cross-beam without using a wrench.

Easy and even pulling for particularly tight parts.

- Practical package for universal use.
- Variable reach thanks to optional jaw extensions.
- Turning the pulling hooks enables them to be used both internally and externally. Suitable for pulling asymmetric workpieces.
- 2-jaw cross-beam with hexagonal profile for good grip.

7 in 1" kit in the tried-and-tested KUKKO-L-Boxx system. Pulling hook with guick adjusting capability guick adjust.

Parallel pulling hooks in every position, even with full load.



Universal puller set with separator

For removing and separating ball bearings, roller bearings, inner rings and other flush parts.







A manual adjustment knurl allows rapid loosening and adjusting of the extractor jaws on the

# Universal 3-jaw puller with quick adjusting jaws

For removing bearings, gears, discs, etc.



Description

- Standard pulling hook with quick adjusting capability quick adjust.
- Parallel pulling hooks in every position, even with full load.
- Pulling hooks with infinitely variable adjustment on the cross-beam.
- Optimal adjustment of the spindle to the shaft with 2-sided spindle tip.
- Mechanical pressure screw.

#### Advantage

- A manual adjustment knurl allows rapid loosening and adjusting of the extractor jaws on the cross-beam without using a wrench.
- Can be installed on various pulling hooks and variable reach thanks to jaw extensions.
- Turning the pulling hooks enables them to be used both internally and externally.
- Suitable for pulling asymmetric workpieces.
- Spindle head band prevents the wrench from slipping off.

Art No.	4021176	mm	<b>m</b> m <b>™</b>	<b>↓</b> mm	max. t	ਰ max. Nm
30-1+	-731488	90	100	17	6	80
30-10+	-731556	130	100	17	6	80
30-2+	-731631	160	150	22	7	150
30-20+	-731716	200	150	22	7	150
30-3+	-731891	250	200	27	10	250
30-30+	-303333	350	200	27	10	250



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For pulling particularly tight bearings, gears, discs, etc.	<ul> <li>Standard</li> <li>Parallel p</li> <li>Pulling h</li> <li>Hydrauli</li> <li>Advantage</li> <li>Easy and</li> <li>A manua cross-be</li> <li>Optiona</li> <li>Adjustak</li> </ul>	ydraulics. I pulling hooks in e ooks with infinit c and mechanica I even pulling for al adjustment kni am without using conversion to va ole depth thanks the pulling hook	every position, ely variable ad al pressure scre particularly tig url allows rapic g a wrench. arious jaw type to jaw extensio	even with full lo justment on the w. ght parts. I loosening and ts for mechanica ons, available up	ad. cross-beam. adjusting of the l use. t o a puller size	e of -30.	on the
	Art No.	4021176	<b>اللہ</b> mm	mm Į	↓ mm	max. t	mit with
	30-2+B	-886294	160	150	12	7	8-01
	30-20+B	-886324	200	150	12	7	8-01
	30-3+B	-886355	250	200	12	10	8-02
	30-30+B	-303067	350	200	12	10	8-02
Universal 2-jaw puller with narrow, quick adjusting ja For removing bearings, gears, discs, etc. for tight or difficult-to-access spa							

#### Description

- Thin pulling hook with quick adjusting capability quick adjust.
  - Parallel pulling hooks in every position, even with full load.
- Pulling hooks with infinitely variable adjustment on the cross-beam.
- Optimal adjustment of the spindle to the shaft with 2-sided spindle tip.
  - Mechanical pressure screw.

#### Advantage

- The thin pulling hooks are suitable for narrow, difficult-to-access locations.
- A manual adjustment knurl allows rapid loosening and adjusting of the extractor jaws on the cross-beam without using a wrench.
  - Can be installed on various pulling hooks and variable reach thanks to jaw extensions.
  - Turning the pulling hooks enables them to be used both internally and externally.
  - Suitable for pulling asymmetric workpieces.

Art No.	4021176	Ţ	<b>t</b>		max.	ਰੂ max.
		mm	mm	mm	t	Nm
20-1+S	-756221	90	100	17	2,5	35
20-10+S	-756306	120	100	17	2,5	35
20-2+S	-756481	160	150	22	5	120
20-20+S	-756559	200	150	22	5	120
20-3+S	-756634	250	200	27	7	220
20-30+S	-756719	350	200	27	7	220

## Sales display for 2-jaw puller with narrow jaws

Glide ETX ARMOCK Quick adjust SWITCHJIMS

For removing bearings, gears, discs, etc. for tight or difficult-to-access spaces.



TECHNOLOGY

- . The sales and workshop stands enable 2-jaw pullers to be stored and presented safely. Thin pulling hooks.
- Two-arm design for space-saving operation.
- Parallel pulling hooks in every position, even with full load.
- If there is adequate free space around the part to be removed, we recommend using a 3-jaw puller.

#### Advantage

Description

- Turning the pulling hooks enables them to be used both internally and externally.
- Suitable for pulling asymmetric workpieces.
- Cross-beam with hexagonal profile for good grip.
- Spindle head band prevents the wrench from slipping off.
- Almost all components available as replacement parts, time-saving order process thanks to numbering system.

Art No.	<b>T</b>	<b>T</b> <u>I</u>		max.		Stück pieces
	mm	mm	mm	t		
20-ST+S	90 - 250	100 - 200	17-27	2,5-7,0	20-STL, 20-1+S, 20-10+S, 20-2+S, 20-20+S, 20-3+S	5

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# Universal 2-jaw puller with narrow jaws, in set, quick adjusting jaws

For removing bearings, gears, discs, etc. for tight or difficult-to-access spaces.



Description

- Thin pulling jaws in various lengths with quick-adjusting capability.
- Parallel pulling hooks in every position, even with full load.
- Pulling hooks with infinitely variable adjustment on the cross-beam.
- Optimal adjustment of the spindle to the shaft with 2-sided spindle tip.
- Mechanical pressure screw.

#### Advantage

- The thin pulling hooks are suitable for narrow, difficult-to-access locations.
  - A manual adjustment knurl allows rapid loosening and adjusting of the extractor jaws on the cross-beam without using a wrench.
    - Can be installed on various pulling hooks and variable reach thanks to jaw extensions.
- Suitable for pulling asymmetric workpieces.
- Spindle head band prevents the wrench from slipping off.

Flexibility assured thanks to two-arm or three-arm design.

Variable reach thanks to optional jaw extensions.

Practical package for universal use. Complete easy-to-manage package. Can be installed on various pulling hooks.

Suitable for pulling asymmetric workpieces.

Thin pulling jaws in various lengths with quick-adjusting capability.

Pulling hooks with infinitely variable adjustment on the cross-beam.

Art No.	<b>14021176</b>	<b>ل</b> بُل mm	mm Ī	⊷  mm	max. t
20-10+SP	-181061	120	100/200/250	17	2,5
20-20+SP	-181078	200	150/300	22	5
20-30+SP	-181085	350	200/300/400	27	7

If there is adequate free space around the part to be removed, we recommend using a 3-jaw puller.

# Universal 2-jaw and 3-jaw puller set with narrow, quick-adjusting pulling jaws

For removing bearings, gears, discs, etc. for tight or difficult-to-access spaces.



Art No.	4021176	Ţ	<b>T</b> <u>I</u>		max.		
		mm	mm	mm	t		
K-2030-10+S	-120060	120 - 130	100 - 350	17	2,5-3	20-10+S, 30-10-T, 614250, 1-93-E, 1-193-S, 1-253-S	L-Boxx

Turning the pulling hooks enables them to be used both internally and externally.

# Universal 3-jaw puller with narrow, quick adjusting jaws

For removing bearings, gears, discs, etc. for tight or difficult-to-access spaces.

## Description

- Thin pulling hook with quick adjusting capability quick adjust.
- Parallel pulling hooks in every position, even with full load. Pulling hooks with infinitely variable adjustment on the cross-beam.
- Optimal adjustment of the spindle to the shaft with 2-sided spindle tip.
- Mechanical pressure screw.

#### Advantage

Advantage

- The thin pulling hooks are suitable for narrow, difficult-to-access locations.
- A manual adjustment knurl allows rapid loosening and adjusting of the extractor jaws on the cross-beam without using a wrench.
- Can be installed on various pulling hooks and variable reach thanks to jaw extensions.
- Turning the pulling hooks enables them to be used both internally and externally.
- Suitable for pulling asymmetric workpieces.

Art No.	4021176	Ţ	Ţ		max.	g max.
		mm	mm	mm	t	Nm
30-1+S	-756894	90	100	17	3	40
30-10+S	-756979	130	100	17	3	40
30-2+S	-757051	160	150	22	5	120
30-20+S	-757136	200	150	22	5	120
30-3+S	-757211	250	200	27	7	220



# Universal 2-jaw puller with extremely narrow, quick adjusting jaws

# For removing gears, bearings, sprockets, synchronizer bodies, etc., in tight or difficult-to-access spaces.

Glid

Pulling hooks with infinitely variable adjustment on the cross-beam.
Optimal adjustment of the spindle to the shaft with 2-sided spindle tip.
Mechanical pressure screw.

Parallel pulling hooks in every position, even with full load.

#### Advantage

Description

- The narrow, trapezoidal pulling jaws are suitable for extremely narrow, difficult to access places. A manual adjustment knurl allows rapid loosening and adjusting of the extractor jaws on the cross-beam without using a wrench.
- Can be installed on various pulling hooks and variable reach thanks to jaw extensions.
- Turning the pulling hooks enables them to be used both internally and externally.

Extra-thin trapezoidal pulling hook with quick adjusting capability quick adjust.

Suitable for pulling asymmetric workpieces.

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		SWITCHJUMS TECHNOLOGY	

Art No.	4021176	Ţ			max.	ਰ max.
		mm	mm	mm	t	Nm
20-1+S-T	-321344	90	100	17	2,5	35
20-10+S-T	-321368	120	100	17	2,5	35

#### Universal 3-jaw puller with extremely narrow, quick adjusting jaws

For removing gears, bearings, sprockets, synchronizer bodies, etc., in tight o



or diffi	cult-to-access spaces.
Des • •	cription Extra-thin trapezoidal pulling hook with quick adjusting capability quick adjust. Parallel pulling hooks in every position, even with full load. Pulling hooks with infinitely variable adjustment on the cross-beam. Optimal adjustment of the spindle to the shaft with 2-sided spindle tip. Mechanical pressure screw.
Adv •	antage The narrow, trapezoidal pulling jaws are suitable for extremely narrow, difficult to access places.

- A manual adjustment knurl allows rapid loosening and adjusting of the extractor jaws on the cross-beam without using a wrench.
- Can be installed on various pulling hooks and variable reach thanks to jaw extensions.
  - Turning the pulling hooks enables them to be used both internally and externally.
- Suitable for pulling asymmetric workpieces.

Art No.	₩₩₩₩₩₩₩ 14021176	mm	mm t	⊷ mm	max. t	₩ max. Nm
30-1+S-T	-321320	90	100	17	3	40
30-10+S-T	-321337	130	100	17	3	40

# Set of universal 2- and 3-jaw pullers with extremely narrow, quick adjusting jaws

For removing gears, bearings, sprockets, synchronizer bodies, etc., in tight or difficult-to-access spaces.

Description

- 8 in 1 kit in the tried-and-tested KUKKO-L-Boxx-System.
- The set facilitates the assembly of eight different pulling device models through the combination of pulling jaws and extensions.
- Flexibility assured thanks to two-arm or three-arm design.
- If there is adequate free space around the part to be removed, we recommend using a 3-jaw puller.
- Extra-thin trapezoidal pulling hook with quick adjusting capability quick adjust.

#### Advantage

- The narrow, trapezoidal pulling jaws are suitable for extremely narrow, difficult to access places.
  - Practical package for universal use.
- Variable reach thanks to optional jaw extensions.
- Turning the pulling hooks enables them to be used both internally and externally.
- Suitable for pulling asymmetric workpieces.



Art No.	4021176	mm t	mm	<b>●</b> mm	max. t	
K-2030-10+S-T	-001710	120 - 130	100 - 350	17	2,5	20-10+S-T, 30-10-T, 614250, 1-95-E, 1-195-S, 1-255-S

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# 3-jaw puller, high performance is guaranteed

For removing bearings, gears, discs, etc.



- High performance is guaranteed.
- Standard pulling hook.
- Parallel pulling hooks in every position, even with full load.
- Pulling hooks with infinitely variable adjustment on the cross-beam.
- Mechanical pressure screw.

#### Advantage

- Variable reach thanks to optional jaw extensions. Turning the pulling hooks enables them to be used both internally and externally. Suitable for pulling asymmetric workpieces. Spindle head band prevents the wrench from slipping off.

- Almost all components available as replacement parts, time-saving order process thanks to numbering system.

Art No.	4021176	<b>T</b>	<b>T</b> <u>I</u>		max.	max.
		mm	mm	mm	t	Nm
11-0-A	-005886	375	200	36	15	500
11-0-A3	-729263	375	300	36	15	500
11-0-A4	-729348	375	400	36	15	500
11-0-A5	-729423	375	500	36	15	500
11-1-A	-075421	520	200	41	20	650
11-1-A3	-729591	520	300	41	20	650
11-1-A4	-729676	520	400	41	20	650
11-1-A5	-729751	520	500	41	20	650
11-2-A	-006203	650	200	41	20	650
11-2-A3	-706158	650	300	41	20	650
11-2-A4	-729836	650	400	41	20	650
11-2-A5	-729911	650	500	41	20	650

# 3-jaw puller with long hydraulic spindle, high performance is guaranteed

For pulling particularly tight bearings, gears, discs, etc.



Description

- High performance is guaranteed.
- Grease hydraulics.
- Standard pulling hook.
- Parallel pulling hooks in every position, even with full load.
- Pulling hooks with infinitely variable adjustment on the cross-beam.

#### Advantage

- Easy and even pulling for particularly tight parts.
- Turning the pulling hooks enables them to be used both internally and externally.
- Suitable for pulling asymmetric workpieces.
- Almost all components available as replacement parts, time-saving order process thanks to numbering system. Note: Pressure pads from series 600-17 are a good addition if the shaft is hollow and the spindle cannot be supported.

Art No.				t t	max.	mit with
		mm	mm	t	Nm	
11-0-B	-075346	375	200	15	30	8-1-B
11-1-B	-006128	520	200	20	45	8-2-K
11-2-B	-006388	650	200	20	30	8-2-K
11-3-B	-706073	650	300	20	30	8-2-K





# 2-jaw puller with short hydraulic spindle

# For removing particularly tight gears, sprockets, ball bearings, etc.



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Descr	ipti	ion

- Grease hydraulics.
- Standard pulling hook.
- Parallel pulling hooks in every position, even with full load.
- Pulling hooks with infinitely variable adjustment on the cross-beam.
- Short hydraulic spindle

#### Advantage

- Little force required for a strong pulling performance.
- Piston functions on the axis and does not turn in the hydraulic spindle.
- Turning the pulling hooks enables them to be used both internally and externally.
- Suitable for pulling asymmetric workpieces.
- Spindle extensions enable the unit to be adjusted quickly to a range of different requirements.

Art No.	<b>                                     </b>	<b>ر اللہ</b> mm	<b>أ</b> لًا mm		mit with
20-3-H	-786839	250	200	10	800
20-30-H	-786914	350	200	10	800

Universal 2-jaw pullers with adjustable reach

For removing bearings, gears, discs, etc.



#### Description

- High performance is guaranteed.
- Standard pulling hook with adjustable depths.
- Parallel pulling hooks in every position, even with full load.
- Pulling hooks with infinitely variable adjustment on the cross-beam.
- Mechanical pressure screw.

#### Advantage

- Pulling hooks can be adjusted lengthwise and to meet the required clamping depths.
  - Turning the pulling hooks enables them to be used both internally and externally.
  - Suitable for pulling asymmetric workpieces.
- Spindle head band prevents the wrench from slipping off.
- Almost all components available as replacement parts, time-saving order process thanks to numbering system.

Art No.	4021176	mm t	mm T	<b>↓</b> mm	ଟ୍ଟୁ max. Nm	max. t
20-4-AV	-706233	520	300 - 500	36	400	12
20-40-AV	-973222	650	300 - 500	36	400	12
20-5	-009846	750	400 - 700	41	650	15

#### Universal 2-jaw puller with adjustable reach and long hydraulic spindle (including mechanical pressure screw)

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#### Description

- Grease hydraulics.
- High performance is guaranteed.
- Standard pulling hook with adjustable depths.
- Parallel pulling hooks in every position, even with full load.
- Pulling hooks with infinitely variable adjustment on the cross-beam.

#### Advantage

- Little force required for a strong pulling performance.
- Pulling hooks can be adjusted lengthwise and to meet the required clamping depths.
- Turning the pulling hooks enables them to be used both internally and externally. Suitable for pulling asymmetric workpieces.
- Spindle head band prevents the wrench from slipping off.

Art No.	4021176	<b>ربان</b> mm	mm T		ଟ୍ଟ max. Nm	mit with
20-4-H	-227981	520	300 - 500	15	45	8-1-B
20-40-H	-732218	650	300 - 500	15	45	8-1-B
20-5-H	-228063	750	400 - 700	20	30	8-2-M

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# 3-jaw pullers with adjustable reach

# For removing bearings, gears, discs, etc.





- High performance is guaranteed.
  - Standard pulling hook with adjustable depths.
- Parallel pulling hooks in every position, even with full load.
- Pulling hooks with infinitely variable adjustment on the cross-beam.
- Mechanical pressure screw.

#### Advantage

- Pulling hooks can be adjusted lengthwise and to meet the required clamping depths.
- Turning the pulling hooks enables them to be used both internally and externally.
- Suitable for pulling asymmetric workpieces.
- Spindle head band prevents the wrench from slipping off.
- Almost all components available as replacement parts, time-saving order process thanks to numbering system.

Art No.	4021176	Ţ	Ţ		max.	ਰ max.
		mm	mm	mm	t	Nm
11-0-AV	-730078	375	300 - 500	36	15	500
11-1-AV	-730153	520	300 - 500	41	20	650
11-2-AV	-730238	650	300 - 500	41	20	650

# 3-jaw pullers with adjustable reach and long hydraulic spindle

For pulling particularly tight bearings, gears, discs, etc.



# Spare parts for assembly 11





Art No.	4021176	Bezeichnung description		mm	<b>Ī</b> <u>Ī</u> mm	●  →  mm	
11-0-T	-110306	Traverse cross beam	-	-	-	-	11-0-A, 11-0-A3, 11-0-A4, 11-0-A5, 11-0-AV, 11-0-B, 11-0-BV, 30-4
11-520	-035333	Traverse cross beam	-	-	-	-	11-1-A, 11-1-A3, 11-1-A4, 11-1-A5, 11-1-AV, 11-1-B, 11-1-BV
11-650	-035418	Traverse cross beam	-	-	-	-	11-2-A, 11-2-A3, 11-2-A4, 11-2-A5, 11-2-AV, 11-2-B, 11-3-B, 11-2-BV, 30-5
637350	<b>)</b> -893469	Spindel spindle	G 1.1/8	37,897	350	36	11-1-A, 11-1-A3, 11-1-A4, 11-1-A5, 11-2-A, 11-2-A3, 11-2-A4, 11-2-A5, 11-1-AV, 11-2-AV, 30-40, 30-5
63340	<b>)</b> -765384	Spindel spindle	G 1″	33,249	400	36	11-0-A, 11-0-A3, 11-0-A4, 11-0-A5, 11-0-AV, 18-4

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- Description
  - High performance is guaranteed.
  - Grease hydraulics.
    - Standard pulling hook with adjustable depths.
    - Parallel pulling hooks in every position, even with full load.
  - Pulling hooks with infinitely variable adjustment on the cross-beam.

#### Advantage

- Easy and even pulling for particularly tight parts.
- Pulling hooks can be adjusted lengthwise and to meet the required clamping depths.
- Turning the pulling hooks enables them to be used both internally and externally.
- Suitable for pulling asymmetric workpieces.
- Almost all components available as replacement parts, time-saving order process thanks to numbering system.

Art No.	4021176	mm t	mm t		ଟ୍ଟ max. Nm	mit with
11-0-BV	-730313	375	300 - 500	15	45	8-1-B
11-1-BV	-730498	520	300 - 500	20	30	8-2-K
11-2-BV	-730566	650	300 - 500	20	30	8-2-K

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# 2 pulling jaws (pair)

# For removing bearings, gears, discs, etc.





## 3 pulling jaws (set)

For removing bearings, gears, discs, etc.





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Standard pulling hooks in various lengths.

- Pulling hooks with infinitely variable adjustment on the cross-beam.
- Pulling hook with sliding part only available in pair of 2.

#### Advantage

- Variable reach thanks to jaw extensions, available up to a puller size of -30. Turning the pulling hooks enables them to be used both internally and externally. Suitable for pulling asymmetric workpieces.
- As a replacement part or supplement to your KUKKO puller.

Art No.	4021176	<b>J</b> <u>Ī</u> mm	A mm	B	C	D mm	E mm	COMMITMENT
1-90-P	-001338	100	3,0	20	15	31	10	20-1, 20-10
1-190-P	-001666	200	3,0	20	15	31	10	20-1, 20-10
1-250-P	-001901	250	3,0	20	15	31	10	20-1, 20-10
1-400-P	-975660	400	3,0	20	15	31	10	20-1, 20-10
2-150-P	-002403	150	4,0	24	18	40	9	20-2, 20-20
2-300-P	-002731	300	4,0	24	18	40	9	20-2, 20-20
3-200-P	-003233	200	4,0	35	37	67	20	20-3, 20-30, 20-4, 20-40
3-250-P	-901232	250	4,0	35	37	67	20	20-3, 20-30, 20-4, 20-40
3-300-P	-003561	300	4,0	35	37	67	20	20-3, 20-30, 20-4, 20-40
3-400-P	-003806	400	4,0	35	37	67	20	20-3, 20-30, 20-4, 20-40
3-500-P	-004148	500	4,0	35	37	67	20	20-3, 20-30, 20-4, 20-40

#### Description

Standard pulling hooks in various lengths.

Pulling hooks with infinitely variable adjustment on the cross-beam.

Pulling hook with sliding part only available in set of 3. •

#### Advantage

Adjustable depth thanks to jaw extensions, available up to a puller size of -30.

- Turning the pulling hooks enables them to be used both internally and externally.
- Suitable for pulling asymmetric workpieces.
- As a replacement part or supplement to your KUKKO puller.

Art No.	4021176	<b>J</b> <u>Ī</u> mm	A	B	C mm	D mm	E mm	
1-90-S	-001413	100	3	20	15	31	10	30-1, 30-10
1-190-S	-001741	200	3	20	15	31	10	30-1, 30-10
1-250-S	-002083	250	3	20	15	31	10	30-1, 30-10
1-400-S	-975684	400	3	20	15	31	10	30-1, 30-10
2-150-S	-002571	150	4	24	18	40	9	30-2, 30-20
2-300-S	-002816	300	4	24	18	40	9	30-2, 30-20
3-200-S	-003318	200	4	35	37	67	20	30-3, 30-30, 30-4, 30-40
3-250-S	-901249	250	4	35	37	67	20	30-3, 30-30, 30-4, 30-40
3-300-S	-003646	300	4	35	37	67	20	30-3, 30-30, 30-4, 30-40
3-400-S	-003981	400	4	35	37	67	20	30-3, 30-30, 30-4, 30-40
3-500-S	-004223	500	4	35	37	67	20	30-3, 30-30, 30-4, 30-40

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#### External extracting

20-4, 20-40, 20-3-S, 20-30-S

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#### 2 narrow jaws (pair)

For removing bearings, gears, discs, etc. for tight or difficult-to-access spaces. Description

1-191-P 1-251-P 1-401-P 2-301-P 3-251-P 3-301-P 1-91-P 2-151-P 3-401-P 3-501-P 3-201-P



As a re	eplacement	part or su	pplement	to your K	UKKO pul	ler.	1
Art No.	4021176	ļ	Α	В	С	D	
		mm	mm	mm	mm	mm	
1-91-P	-434716	100	2,6	30	7	14	20-1-S, 20-10-S
1-191-P	-461286	200	2,6	30	7	14	20-1-S, 20-10-S
1-251-P	-461446	250	2,6	30	7	14	20-1-S, 20-10-S
1-401-P	-985010	400	2,3	30	7	14	20-1-S, 20-10-S
2-151-P	-702921	150	4,0	32	8	19	20-2-S, 20-20-S
2-301-P	-703188	300	4,0	32	8	19	20-2-S, 20-20-S
3-201-P	-726521	200	6,5	35	17	52	20-4, 20-40, 20-3-S, 20-30-S
3-301-P	-726781	300	6,5	35	17	52	20-4, 20-40, 20-3-S, 20-30-S
3-401-P	-726941	400	6,5	35	17	52	20-4, 20-40, 20-3-S, 20-30-S

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Pulling hooks with infinitely variable adjustment on the cross-beam.

Variable reach thanks to jaw extensions, available up to a puller size of -30. Turning the pulling hooks enables them to be used both internally and externally. Suitable for pulling asymmetric workpieces.

Pulling hook with sliding part only available in pair of 2.

Thin pulling hooks in various lengths.



For removing bearings, gears, discs, etc. for tight or difficult-to-access spaces.

1-191-S 1-251-S 1-401-S 2-301-S 3-251-S 1-91-S 3-301-S 2-151-S 3-401-S 3-201-S 3-501-S





•	Pulling hook with	sliding part only	/ available in	set of 3.

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Description

3-501-P

-727108

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Advantage

Advantage

 $\bar{\text{Adjustable}}$  depth thanks to jaw extensions, available up to a puller size of -30.

Pulling hooks with infinitely variable adjustment on the cross-beam.

Turning the pulling hooks enables them to be used both internally and externally. Suitable for pulling asymmetric workpieces.

Thin pulling hooks in various lengths.

As a replacement part or supplement to your KUKKO puller.

Art No.	4021176	<b>J</b> <u>Ī</u> mm	A mm	B mm	C mm	D mm	
1-91-S	-497834	100	2,6	30	7	14	30-1-S, 30-10-S
1-191-S	-497919	200	2,6	30	7	14	30-1-S, 30-10-S
1-251-S	-498091	250	2,6	30	7	14	30-1-S, 30-10-S
1-401-S	-985034	400	2,6	30	7	14	30-1-S, 30-10-S
2-151-S	-728686	150	4,0	32	8	19	30-2-S, 30-20-S
2-301-S	-728761	300	4,0	32	8	19	30-2-S, 30-20-S
3-201-S	-728846	200	6,5	35	17	52	30-3-S
3-301-S	-728921	300	6,5	35	17	52	30-3-S
3-401-S	-729003	400	6,5	35	17	52	30-3-S
3-501-S	-729188	500	6,5	35	17	52	30-3-S

#### 2 extremely narrow jaws (pair)

For removing gears, bearings, sprockets, synchronizer bodies, etc., in tight or difficult-to-access spaces.
Description

Art No.	4021176	J <u>Ī</u> mm	A mm	B mm	C mm	D mm	E mm	
1-94-P	-852039	100	3	24	7	12	15	20-1-S-T, 20-10-S-T
1-194-P	-321399	200	3	24	7	12	15	20-1-S-T, 20-10-S-T
1-254-P	-321498	250	3	24	7	12	15	20-1-S-T, 20-10-S-T

3 extremely narrow jaws (set)

For removing gears, bearings, sprockets, synchronizer bodies, etc., in tight or difficult-to-access spaces.



Art No.	4021176	<b>J</b> <u>Ī</u> mm	A mm	B mm	C mm	D mm	E mm	
1-94-S	-321580	100	3	24	7	12	15	30-1-S-T, 30-10-S-T
1-194-S	-321412	200	3	24	7	12	15	30-1-S-T, 30-10-S-T
1-254-S	-484520	250	3	24	7	12	15	30-1-S-T, 30-10-S-T

# **254-P** -321498 250 3 24 7 1

Extra-thin pulling hooks in various lengths.

Suitable for pulling asymmetric workpieces.

Advantage

Description

Advantage

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Pulling hooks with infinitely variable adjustment on the cross-beam.

Variable reach thanks to jaw extensions, available up to a puller size of -30. Turning the pulling hooks enables them to be used both internally and externally.

Pulling hook with sliding part only available in pair of 2.

As a replacement part or supplement to your KUKKO puller.

- Adjustable depth thanks to jaw extensions, available up to a puller size of -30.
- Turning the pulling hooks enables them to be used both internally and externally.

Pulling hooks with infinitely variable adjustment on the cross-beam.

Suitable for pulling asymmetric workpieces.

Extra-thin pulling hooks in various lengths.

As a replacement part or supplement to your KUKKO puller.

Pulling hook with sliding part only available in set of 3.

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#### 2 quick adjusting jaws (pair)

For removing bearings, gears, discs, etc.



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Pulling hooks with infinitely variable adjustment on the cross-beam.

Pulling hook with sliding part only available in pair of 2.

#### Advantage

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- Variable reach thanks to jaw extensions, available up to a puller size of -30.
- Turning the pulling hooks enables them to be used both internally and externally. .
- Suitable for pulling asymmetric workpieces.
- As a replacement part or supplement to your KUKKO puller.

Art No.	4021176	J <u>Ī</u> mm	A mm	B mm	C mm	D mm	E mm	
1-92-P	-732393	100	3	20	15	31	10	20-1+, 20-10+
1-192-P	-973611	200	3	20	15	31	10	20-1+, 20-10+
1-252-P	-973673	250	3	20	15	31	10	20-1+, 20-10+
2-152-P	-973765	150	4	24	18	40	9	20-2+, 20-20+
2-302-P	-973819	300	4	24	18	40	9	20-2+, 20-20+
3-202-P	-732706	200	4	35	37	67	20	20-3+, 20-30+
3-302-P	-973932	300	4	35	37	67	20	20-3+, 20-30+
3-402-P	-974014	400	4	35	37	67	20	20-3+, 20-30+
3-502-P	-974137	500	4	35	37	67	20	20-3+, 20-30+

#### 3 quick adjusting jaws (set)

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For removing bearings, gears, discs, etc.





#### Description

Pulling hooks with infinitely variable adjustment on the cross-beam.

Pulling hook with sliding part only available in set of 3.

- Adjustable depth thanks to jaw extensions, available up to a puller size of -30.
- Turning the pulling hooks enables them to be used both internally and externally.
- Suitable for pulling asymmetric workpieces. KUKKO ouller.

As a replacement	part or	suppleme	ent to you	r kukku	pulle

Art No.	4021176	J <u>Ī</u> mm	A mm	B mm	C mm	D mm	E mm	KOMENNESSAR COMENNESSAR COMENNESSAR
1-92-S	-973741	100	3	20	15	31	10	30-1+, 30-10+
1-192-S	-973635	200	3	20	15	31	10	30-1+, 30-10+
1-252-S	-973697	250	3	20	15	31	10	30-1+, 30-10+
2-152-S	-973772	150	4	24	18	40	9	30-2+, 30-20+
2-302-S	-973833	300	4	24	18	40	9	30-2+, 30-20+
3-202-S	-973895	200	4	35	37	67	20	30-3+, 30-30+
3-302-S	-973956	300	4	35	37	67	20	30-3+, 30-30+
3-402-S	-974038	400	4	35	37	67	20	30-3+, 30-30+
3-502-S	-974151	500	4	35	37	67	20	20-3+, 20-30+

#### 2 narrow, quick adjusting jaws (pair)

For removing bearings, gears, discs, etc. for tight or difficult-to-access spaces.

#### 1-193-P 1-253-P 1-403-P 2-303-P 3-253-P 3-303-P 1-93-P 2-153-P 3-403-P 3-203-P 3-503-P Glide CFIX ARMOCK Quick adjust



Art No.	4021176	JĪ	Α	В	С	D	MIBINGEBAR
		mm	mm	mm	mm	mm	
1-93-P	-973352	100	2,6	30	7	14	20-1+S, 20-10+S
1-193-P	-973642	200	2,6	30	7	14	20-1+S, 20-10+S
1-253-P	-973710	250	2,6	30	7	14	20-1+S, 20-10+S
2-153-P	-973789	150	4,0	32	8	19	20-2+S, 20-20+S
2-303-P	-973857	300	4,0	32	8	19	20-2+S, 20-20+S
3-203-P	-973901	200	6,5	35	17	52	20-3+S, 20-30+S
3-303-P	-973970	300	6,5	35	17	52	20-3+S, 20-30+S
3-403-P	-974052	400	6,5	35	17	52	20-3+S, 20-30+S
3-503-P	-974175	500	6,5	35	17	52	20-3+S, 20-30+S

Pulling hooks with infinitely variable adjustment on the cross-beam.

Adjustable depth thanks to jaw extensions, available up to a puller size of -30. Turning the pulling hooks enables them to be used both internally and externally.

Pulling hook with sliding part only available in set of 3.

As a replacement part or supplement to your KUKKO puller.

Suitable for pulling asymmetric workpieces.

#### 3 narrow, quick adjusting jaws (set)

For removing bearings, gears, discs, etc. for tight or difficult-to-access spaces.





#### J Α В C D Art.-4021176 No. mm mm mm mm mm 30-1+S, 30-10+S 1-93-S -973758 100 2,6 30 7 14 30-1+, 30-10+ 1-193-S -973659 200 2,6 30 7 14 1-253-S -973734 250 2,6 30 7 14 30-1+, 30-10+ 2-153-S -973796 4,0 19 30-2+S, 30-20+S 150 32 8 2-303-S -973871 300 4,0 19 30-2+S, 30-20+S 32 8 3-203-S -973918 17 52 200 6.5 35 30-3+S 3-303-S -973994 17 52 30-3+S 300 6.5 35 3-403-S -974076 17 52 30-3+S 400 6,5 35 3-503-S -974199 500 6,5 35 17 52 30-3+S

#### Description

- Thin pulling hooks with Quickadjust in various lengths.
- Pulling hooks with infinitely variable adjustment on the cross-beam.
- Pulling hook with sliding part only available in pair of 2.

#### Advantage

Description

Advantage

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- Variable reach thanks to jaw extensions, available up to a puller size of -30.
- Turning the pulling hooks enables them to be used both internally and externally.
- Suitable for pulling asymmetric workpieces.
- As a replacement part or supplement to your KUKKO puller.

#### 2 extremely narrow, quick adjusting jaws (pair)

#### For removing gears, bearings, sprockets, synchronizer bodies, etc., in tight or difficult-to-access spaces. Description



Art No.	4021176	JĪ	Α	В	С	D	E	
		mm	mm	mm	mm	mm	mm	
1-95-P	-321610	100	3	24	7	12	15	20-1+S-T, 20-10+S-T
1-195-P	-321443	200	3	24	7	12	15	20-1+S-T, 20-10+S-T
1-255-P	-321542	250	3	24	7	12	15	20-1+S-T, 20-10+S-T

Extra-thin pulling hooks with Quickadjust in various lengths. Pulling hooks with infinitely variable adjustment on the cross-beam.

Variable reach thanks to jaw extensions, available up to a puller size of -30. Turning the pulling hooks enables them to be used both internally and externally.

Pulling hook with sliding part only available in pair of 2.

Suitable for pulling asymmetric workpieces.

Advantage

Description

Advantage

#### 3 extremely narrow, quick adjusting jaws (set)

For removing gears, bearings, sprockets, synchronizer bodies, etc., in tight or difficult-to-access spaces.



Art No.	4021176	<b>J</b> <u>Ī</u> mm	A mm	B mm	C mm	D mm	E mm	COMMUNICATION COMUNICATION COMMUNICATION COM COMMUNICATION COMICATION CO
1-95-S	-321634	100	3	24	7	12	15	30-1+S-T, 30-10+S-T
1-195-S	-321467	200	3	24	7	12	15	30-1+S-T, 30-10+S-T
1-255-S	-321566	250	3	24	7	12	15	30-1+S, 30-10+S

Pulling hooks with infinitely variable adjustment on the cross-beam.

Adjustable depth thanks to jaw extensions, available up to a puller size of -30. Turning the pulling hooks enables them to be used both internally and externally.

Pulling hook with sliding part only available in set of 3.

As a replacement part or supplement to your KUKKO puller.

Suitable for pulling asymmetric workpieces.

### 2 pulling arms with adjustable length (Pair)





#### Description

Standard pulling hook with adjustable depths.

- Pulling hook with sliding part only available in pair of 2.
- Pulling hooks with infinitely variable adjustment on the cross-beam.

#### Advantage

- Pulling hooks can be adjusted lengthwise and to meet the required clamping depths.
- Turning the pulling hooks enables them to be used both internally and externally.
  - Suitable for pulling asymmetric workpieces.
- As a replacement part or supplement to your KUKKO puller.

Art No.	4021176	<b>J</b> <u>Ī</u> mm	A mm	B mm	C mm	D mm	E mm	
4-SP-P	-004636	300-500	7	40	45	85	25	20-3, 20-30, 20-4, 20-40
5-SP-P	-004971	400-700	7	40	45	85	25	20-5
4-SP-S	-004711	300-500	7	40	45	85	25	11-0, 11-1, 11-2, 30-5

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As a replacement part or supplement to your KUKKO puller.



# Mechanical pressure spindle



#### Description

- KUKKO pressure spindles with milled thread have been specifically engineered for use in KUKKO pullers, in order to achieve particularly high tensile forces.
- The pressure spindles are specially coated and therefore guarantee particularly good sliding properties in the thread.
- Optimal adjustment of the spindle to the shaft with 2-sided spindle tip 4
   SWITCH-Technology.
- The mounted, freely-rotating centering point **5** protects the shaft against damage when applying the pulling force.
- Only complete with KUKKO safety-first label 6
- A tube of KUKKO special grease KSF-69 included for pressure spindle.

#### Advantage

- The spindle head 2 and the spindle band 3 are lasered with the item number.
- The spindle heads have a band which prevents the wrench from slipping during the pulling process.

# The correct determination of a replacement spindle if **no item number** is available.





**a** Measure the spindle diameter.



Measure the thread length to the tip of the spindle



Measure the length over three turns of the thread.



Measure the hexagon of the spindle head.

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4

		ArtNo.	6	14	16	0			SWÍ TE				S
		P	ressure screw	Ø mm	b mn	1							
ArtNo.	4021176	suitable for	thread	a a	b b t	C	d sw	i					ArtNo.
608080	-176241	48, 482-1	M 8x1,25	8	80	3,75	-	-	х	-	-	х	-
608130	-481086	482-2, 483-2	M 8x1,25	8	130	3,75	-	-	Х	-	-	Х	-
609087	-102493	41-1, 42-1, 43-1, 43-11, 43-12, 43-2	M 9x1,25	9	87	3,75	-	-	Х	-	-	Х	-
609105	-101403	41-2, 42-2, 43-3, 43-13	M 9x1,25	9	105	3,75	-	-	Х	-	-	Х	-
610070		41-0, 42-0	M 10x1,5	10	75	4,50	13	Х	- V	-	- V	Х	-
610094	-122118	204-0	M 10x1,5	10	94	4,50	-	v	X	-	X	-	-
610110 610120	-433726	208-0, 209-0, 112-1, 112-10 70-01	M 10x1,5 M 10x1,5	10 10	120 120	4,50 4,50	8 13	X	-	-	X X	-	-
612080	-238468	201-0, 202-0, 203-0	M 10x1,5	10	85	4,50	13	X	-	Х	X	-	612140
612110	-112881	205-00, 206-00, 207-00	M 12x1,5	12	110	4,50	13	X	-	X	X	-	612140
612130	-077081	18-0, 44-1, 45-1, 14-01, 14-1	M 12x1,5	12	130	4,50	13	Х	-	Х	Х	-	612140
612150	-790201	41-3, 42-3	M 12x1,5	12	150	4,50	13	Х	-	Х	-	-	-
612200	-480744	482-3, 483-3	M 12x1,75	12	210	5,25	13	Х	-	Х	Х	-	612140
614135	-074271	12-1, 30-1, 30-1+, 30-10, 30-10+, 30-1-S, 30-10-S, 30-1+S, 30-10+S, 30-1-S-T, 30-10-S-T, 30-1+S-T, 30-10+S-T, 30-10-P3 30-10SP, 32-1, 33, 34-0, 34-1, 110-1, 110-10, 112-2, 120-1, 120-10, 130-10, 201-1, 202-1, 203-1,	M 14x1,5	14	135	4,50	17	Х	-	X	X	-	612140
614160	-112966	14-2, 20-1, 20-10, 20-1-S, 20-10-S, 20-1+S, 20-10+S, 20-1+, 20-10+, 20-1+S-T, 20-10+S-T, 20-1-2, 20-1-25, 20-1-4, 20-10-2, 20-10-25, 20-10-4, 20-1-S-T, 20-10-S-T, 20-10-SP, 20-10-P3, 20-10-V, 30-1-2, 30-10-2, 44-2, 45-2, 112-20, 113-20, 120-2, 130-2, 205-01, 206-01, 207-01, 208-01, 209-01	M 14x1,5	14	160	4,50	17	X	-	X	Х	-	612140
614200	-838576	14-3, 14-03 41-4, 42-4	M 14x1,5	14	200	4,50	17	Х	-	Х	-	-	-
614250	-306709	K-2030-10, K-2030-10+S, K-2030-10+S+T, 70-2, 201-S, 202-S	M 14x1,5	14	250	4,50	17	Х	-	Х	Х	-	612140
616220	-420856	112-3, 113-3	M 16x1,5	16	220	4,50	17	X	-	Х	- V	-	-
616270 616325	-480829 -480904	482-4, 483-4 482-5, 483-5	M 16x2,0 M 16x2,0	16 16	270 325	6,00 6,00	17 17	X	-	-	X X	-	-
618068	-123771	127-3, 128-3, 128-G3	M 18x2,0	18	58	4,50	17	X	-	X	-	-	-
618105	-073779	204-1	M 18x1,5	18	105	4,50	19	X	-	X	-	-	-
618175	-074356	12-2, 18-1, 32-2, 110-2, 110-20	M 18x1,5	18	175	4,50	19	Х	-	Х	Х	-	616180
618210	-113048	44-3, 45-3	M 18x1,5	18	210	4,50	19	Х	-	Х	-	-	-
620172	-817946	28-1, 28-2	M 20x2,5*	20	170	7,50	24	Х	Х	Х	Х	-	620260
620230		28-3	M 20x2,5*	20	230	7,50	24	Х	X	-	Х	-	-
620250	-818103		M 20x2,5*	20	250	7,50	24	X	X	-	Х	-	-
621130		204-2, 204-02	G 1/2" / 14"	20,955	130	5,40	22	X	-	X	-	-	-
621170 621220	-067181 -268373	18-2 20-2, 20-20, 20-2+, 20-2+S, 20-20+S, 20-20+, 20-2-S, 20-20+, 20-2-S, 20-20-S, 20-2-3, 20-20-3, 20-20SP, 20-20-P2, 30-2, 30-20, 30-2+, 30-20+, 30-2+S, 30-20+S, 30-2-S, 30-20-3, 30-20-S, 30-20-3, 30-20-SP, 30-20-P2, 31-1, 31-2, 124-20-A, 124-20-1, 200-U, 201-2, 202-2, 203-2, 205-02, 206-02, 207-02, 208-02, 209-02, 210-1	G 1/2" / 14" G 1/2" / 14"	20,955	<u>170</u> 210	5,40 5,40	22 22	X X	-	X	X X	-	620260 620260
621300	1	41-5, 42-5, 110-3, 110-4	G 1/2" / 14"	20,955	300	5,40	22	X	-	X	Х	-	620260
621355 623150	-236228 -018961	70-4, 112-4, 113-4 128-4, 128-5, 128-T-4	G 1/2" / 14" G 5/8" / 14"	20,955 22,911	355 150	5,40 5,40	22 24	X	-	- X	- X	-	-
623150	-018961	128-4, 128-5, 128-1-4 120-20, 130-20, 204-3, 204-30	G 5/8" / 14"	22,911	170	5,40	24	X	-	X	X	-	620260
623230	-074684	12-3, 120-3, 120-30, 130-3	G 5/8" / 14"	22,911	230	5,40	24	X	-	X	X	-	620260
623260	-113123	44-4, 45-4	G 5/8" / 14"	22,911	260	5,40	24	X	-	X	X	-	620260
623325		44-5, 45-5, 113-5, 210-2, 210-3	G 5/8" / 14"	22,911	325	5,40	24	Х	-	Х	-	-	-
623360	-814976	44-6, 45-6	G 5/8" / 14"	22,911	400	5,40	24	Х	-	Х	-	-	-
623450	-832796	45-7	G 5/8" / 14"	22,911	450	5,40	24	Х	-	Х	-	-	-
626300	-765360	18-3, 20-3, 20-30, 20-3+, 20-30+, 20-3-S, 20-30-S, 20-3+S, 20-30+S, 20-3-25, 20-3-3, 20-30-3, 20-3-4, 20-30-4, 20-3-5, 20-30-5, 20-30-P3, 20-30SP, 30-3, 30-30, 30-3+, 30-30+, 30-3-S, 30-3+S, 30-3-25, 30-3-3, 30-30-3, 30-3-4, 30-30-4, 30-3-5, 30-30-5, 30-3-P3, 30-3SP, 201-3, 201-4, 202-3, 202-4, 203-3, 203-4, 205-1, 206-1, 207-1 20-40, 20-40-4, 20-40-5, 12-4, 205-2, 205-3, 206-2, 206-3,	G 3/4" / 14" G 3/4" / 14"	26,441	300	5,40	27	X X	-	X X	- X	-	620260
626500	-765377	207-2, 207-3, 10-M, 12-5	G 3/4" / 14"	26,441	500	5,40	27	x	-	X	-	-	-
633400		11-0, 18-4, 20-4, 46-1, 47-1	G 1" / 14"	33,249	400	6,90	36	X	-	X	-	-	-
633500	-893452	20-AV, 46-2-A, 47-2-A	G 1" / 14"	33,249	500	6,90	36	X	-	X	-	-	-
		12 ( 12 7						V					
633600	-866388	12-6, 12-7	G 1" / 14"	33,249	600	6,90	36	Х	-	Х	-	-	-
633600 637350 637500	-866388 -893469 -893469	12-6, 12-7 11-1, 11-2, 30-40, 30-5 15-E	G 1" / 14" G 1 1/8" / 14" G 1 1/8" / 14"	37,897	600 350 500	6,90 6,90 6,90	36 41 41	X X X	-	X X X	-	-	-

# Backfitting 2- and 3-jaw pullers from mechanic up to hydraulic spindle





















When using pullers with hydraulic spindles, the application of hydraulic pulling force must always be controlled, i.e., by the use of a torque wrench.

•	T	ma	ax.	÷	÷
Art. No.	+ľ	_		max. Nm	" max. Nm
INO.	6	t	kN		
20-2	8-01	7	70	150	12
20-2+	8-01	7	70	150	12
20-20	8-01	7	70	150	12
20-20+	8-01	7	70	150	12
20-2-3	8-01	7	70	150	12
20-20-3	8-01	7	70	150	12
20-3	8-02	8,5	85	300	14
20-3+	8-02	8,5	85	300	14
20-30	8-02	8,5	85	300	14
20-30+	8-02	8,5	85	300	14
20-3-3	8-02	8,5	85	300	14
20-3-4	8-02	8,5	85	300	14
20-3-5	8-02	8,5	85	300	14
20-30-3	8-02	8,5	85	300	14
20-30-4	8-02	8,5	85	300	14
20-30-5	8-02	8,5	85	300	14
20-4	8-1-B	15	150	400	45
20-4-3	8-1-B	15	150	400	45
20-4-5	8-1-F	15	150	400	45
20-40	8-1-B	15	150	400	45
20-40-4	8-1-B	15	150	400	45
20-40-5	8-1-F	15	150	400	45
20-5	8-2-M	15	200	650	30
30-2	8-01	7	70	150	12
30-2+	8-01	7	70	150	12
30-20	8-01	7	70	150	12
30-20+	8-01	7	70	150	12
30-2-3	8-01	7	70	150	12
30-20-3	8-01	7	70	150	12
30-3	8-02	10	100	250	15
30-3+	8-02	10	100	250	15
30-3-3	8-02	10	100	250	15
30-3-4	8-02	10	100	250	15
30-3-5	8-02	10	100	250	15
30-3-5	8-02	10	100	250	15



# 2- and 3-jaw puller with hydraulic spindle



When using pullers with hydraulic spindles, the application of hydraulic pulling force must always be controlled, i.e., by the use of a torque wrench.

Art.	•	ma	ax.			
No.	incl.	t	kN	max. Nm		
20-2-B	8-01	7	70	12		
20-20-В	8-01	7	70	12		
20-3-B	8-02	10	100	15		
20-30-В	8-02	10	100	15		
20-4-B	8-1-B	15	150	45		
20-40-В	8-1-B	15	150	45		
20-2-3-В	8-01	7	70	12		
20-20-3-В	8-01	7	70	12		
20-3-3-В	8-02	10	100	15		
20-3-4-B	8-02	10	100	15		
20-3-5-B	8-02	10	100	15		
20-30-3-В	8-02	10	100	15		
20-30-4-B	8-02	10	100	15		
20-30-5-В	8-02	10	100	15		
20-4-3-B	8-1-B	15	150	45		
20-4-4-B	8-1-B	15	150	45		
20-4-5-B	8-1-B	15	150	45		
20-40-4-B	8-1-B	15	150	45		
20-40-5-В	8-1-B	15	150	45		
20-2+B	8-01	7	70	12		
20-20+B	8-01	7	70	12		
20-3+B	8-02	10	100	15		
20-30+B	8-02	10	100	15		
30-2-B	8-01	7	70	12		
30-20-В	8-01	7	70	12		
30-3-B	8-02	10	100	15		
30-2-3-B	8-01	7	70	12		
30-20-3-В	8-01	7	70	12		
30-3-3-B	8-02	10	100	15		
30-3-4-B	8-02	10	100	15		
30-3-5-B	8-02	10	100	15		
30-2+B	8-01	7	70	12		
30-20+B	8-01	7	70	12		
30-3+B	8-02	10	100	15		

#### Long hydraulic spindles

For pulling particularly tight bearings, gears, discs, etc.



Art No.	4021176	₩ mm		<b>m</b> m	max. t	च max. Nm	Bezeichnung description	Consupression Consumpart				
8-1-B	-034596	250	R1"	10	15	45	Complete spindle	18-4, 20-4, 20-40				
8-1-F	-034671	350	R1"	10	15	45	Complete spindle	46-1-A, 46-2-A, 46-1-B, 46-2-B, 47-1-A, 47-2-A, 47-1-B, 47-2-B				
8-1-ERS	-243721		Verschle	ißteilsatz	/Wearin	g parts se	et	8-1-B, 8-1-F				
8-2-K	-034831	250	G 1 1/8"	10	20	30	Complete spindle	11-1-A, 11-2-A				
8-2-M	-034916	350	G 1 1/8"	10	20	30	Complete spindle	18-5, 20-5				
8-2-ERS	-243806		Verschle	ißteilsatz	Verschleißteilsatz / Wearing parts set							

Almost all components available as replacement parts, time-saving order process thanks to numbe-

Can be combined with various mechanical pulling devices from the KUKKO range.

#### Short hydraulic spindles

800

For pulling particularly tight bearings, gears, discs, etc.

#### Description

Description

Advantage

Grease hydraulics.

ring system.

Milled thread treated with special coating.

Easy and even pulling for particularly tight parts.

Spindle head band prevents the wrench from slipping off.

- Series is built on a modular system.
- Pullers have the same hydraulic spindle.
- Easy-to-replace individual components that can be combined in a number of different ways.
- Grease hydraulics.
- Hydraulic spindle.

#### Advantage

- Available as complete hydraulic pullers, individual parts and sets.
- Little force required for a strong pulling performance.
  - Piston functions on the axis and does not turn in the hydraulic spindle.
- Spindle extensions enable the unit to be adjusted quickly to a range of different requirements.
- Spindle head band prevents the wrench from slipping off.

Art No.	4021176		mm	 ⊢ mm	max. t	₩ max. Nm	
800	-034343	W 1.1/2"-16(55°;16Gang)	10	13	10	40	
801	-784446	W 1.1/2"-16(55°;16Gang)	10	19	15	70	
802	-784514	M40x1,5	10	19	20	100	
804	-456787	W 1.1/2"-16(55°;16Gang)	10	19	15	70	
800-ERS	-244483	Verschleil	ßteilsatz / W	learing part	s set		
801-ERS	-788086	Verschleißteilsatz / Wearing parts set					
802-ERS	-788246	Verschleißteilsatz / Wearing parts set					
800017	-165351	Drue	ckstück / Pr	essure pad			

#### KUKKO Special grease for pressure spindles

hydraulic



801

802 804

#### Description

Detailed information provided in the data sheet.

Advantage

Protects the spindle at high pulling forces.

Art No.	4021176	g
699904	-773518	4
699915	-019869	15
699975	-019876	75

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#### Long hydraulic spindles

For pulling particularly tight bearings, gears, discs, etc.



Art No.	4021176	<b>m</b> m		max. t	Bezeichnung description	
8-01	-887871	10	G 1/2"	10	Spindel komplett / Complete spindle	20-2, 20-20, 12-4, 12-5, 18-2, 30-2, 30-20, 41-5, 42-5, 205-02, 206-02, 207-02
8-02	-887901	12	G 3/4"	12	Spindel komplett / Complete spindle	20-3, 20-30, 12-6, 12-7, 18-3, 30-3, 205-1, 205-2, 205-3, 206-1, 206-2, 206-3, 207-1, 207-2, 207-3
8-01ERS	-989452	Versch	leißteilsat	z / Wearii	ng parts set	8-01
8-01-176	-811760	Kopfschrau	lben mit Spin Bolt with sc	idel und Sich rew and safe	8-01	
8-02ERS	-887918	Versch	leißteilsat	z / Wearii	8-02	
8-02-176	-821769	Kopfschrau		idel und Sich rew and safe	erungsschraube / ty pin	8-02

Can be combined with various mechanical pulling devices from the KUKKO range.

Spindle head band prevents the wrench from slipping off. Almost all components available as replacement parts, time-saving order process thanks to numbe-

#### Auxiliary hydraulic ram

To increase the pressure for mechanical pulling devices for particularly tight bearings, gears, discs, etc.

Description

Description

Advantage

Grease hydraulics.

ring system.

Milled thread treated with special coating.

Easy and even pulling for particularly tight parts.

- Grease hydraulics.
- Centering hole for ideal spindle guidance. Milled thread treated with special coating.

#### Advantage

Can be combined with various mechanical pulling devices from the KUKKO range.

- Saves time as spindle does not need to be replaced. Specification for maximum torques.
- Almost all components available as replacement parts, time-saving order process thanks to numbering system.

Art No.	4021176	Ø	<b>₫₩₩₩</b>	mm	max. t	ଟ୍ଟି max. Nm	
9-1	-005053	37	60	10	10	35	
9-2	-005138	50	87	15	15	50	
9-3	-924408	80	113	7	30	35	
9-1-ERS	-243981	Verschleißteilsatz / Wearing parts set					
9-2-ERS	-244063	Verschleißteilsatz / Wearing parts set					
9-3-ERS	-039294		Verschleißt	eilsatz / Wearir	ng parts set		

#### Tool holder with ratchet

For reworking and cleaning damaged internal and external threads.



#### ST

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Each file has different pitches. Advantage

Description

The application is simple and easy.

Art No.	4021176	mm	inch	für for
97-1	-490231	0,8 - 1 - 1,25 - 1,5 1,75 - 2 - 2,5 - 3	-	DIN-ISO
97-2	-490316	-	10 - 11 - 12 - 14 - 16 - 18 - 20 - 24	Whitworth + BSF
97-3	-490491	-	11 - 12 - 14 - 16 - 18 - 20 - 24	SAE / UNF
97-4	-720253	-	11- 14 - 19-28	Whitworth/ Rohrgewinde



# **TIP: Modular extensions**



For the 20 and 30 series, we offer modular extensions. If the part to be removed sits deep on a shaft, jaw extensions will be needed.

+









# 219









The side clamp is available separately (No. 219-1). It is attached to the puller jaw after the puller has been fitted and prevents slippage of the puller jaw under very high forces.

#### 2 jaw extensions (pair)

For removing bearings, gears, discs, etc.



Description Jaw ex Jaw ex
Advantage • As a re
Ai
1-V-100-F
1-V-100-I 1-V-150-I

As a replacement	As a replacement part or supplement to your KUKKO puller.							
Art No.	4021176	Î <u>Ţ</u> mm						
1-V-100-P	-985058	100	20-1, 20-10					
1-V-150-P	-985089	150	20-1, 20-10					
2-V-150-P	-985201	150	20-2, 20-20					

#### 3 jaw extensions (set)

For removing bearings, gears, discs, etc.

#### Description

• Jaw extensions in various lengths.

• Jaw extensions only available in set of 3.

Jaw extensions in various lengths. Jaw extensions only available in set of 2.

#### Advantage

As a replacement part or supplement to your KUKKO puller.

Art No.	4021176	Î <u>Ţ</u> mm	COMMUNICATION OF COMMUN
1-V-100-S	-985065	100	30-1, 30-10
1-V-150-S	-985096	150	30-1, 30-10
2-V-150-S	-985218	150	30-2, 30-20

#### Clamp for 2-jaw pullers

For stability support for the pulling process using V-P series extensions

**ARM**OCK

#### Advantage

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Fixed support for even more accurate removal processes.

Easy, effective assembly.

Art	<b>  ₩₩₩</b> ₩	-€ <u>∽</u> ∎-	l↔
No.	4021176	mm	mm
219-1	-777777	40-190	8

#### Pressure pad bricks

For the support of the pressure spindle with a hollow shaft

)••••

#### Description

A total of 3 different pressure pads.

#### Advantage

•

• Modular system, pressure pads can be combined with each other.

Art No.	<b>  </b>	Ø
600-17	-914188	20; 32; 41

ST

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41-0

## Pullers with swivelling jaws

#### Universal 2-jaw puller with swiveling jaws

41-1 **41-2** 

#### For removing bearings, gears, discs, etc.

#### Description

- Swivelling standard puller jaws.
- Two-arm design for space-saving operation.
- Mechanical pressure screw.
- Milled thread treated with special coating.
- If there is adequate free space around the part to be removed, we recommend using a 3-jaw puller series 42 for optimal force distribution.

#### Advantage

- The larger the pulling force, the stronger the puller hook's grip on the workpiece to be removed. Spindle head band prevents the wrench from slipping off.
- Hydraulic spindle series 8-0 for particularly tight parts, available from a particular puller size.
- Auxiliary hydraulic ram series 9 for particularly tight parts, can be used from a particular puller size.
- Almost all components available as replacement parts, time-saving order process thanks to numbering system.

Art No.	4021176	الم mm	<b>t</b> mm	max. t	ଟ୍ଟ max. Nm	<b>↓</b> mm
41-0	-362859	60	40	1,0	25	13
41-1	-015038	65	65	1,0	-	-
41-2	-015113	80	80	1,5	-	-
41-3	-787829	90	120	3,0	40	13
41-4	-836268	130	160	5,0	85	17
41-5	-836343	180	200	7,0	150	22

#### Universal 2-jaw puller with long hydraulic spindle(including mechanical pressure screw)

41-3

41-4 41-5

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- Grease hydraulics.
- Swivelling standard puller jaws.
- Two-arm design for space-saving operation.
- Hydraulic spindle and mechanical pressure screw.
- Milled thread treated with special coating.

- The larger the pulling force, the stronger the puller hook's grip on the workpiece to be removed.
- Spindle head band prevents the wrench from slipping off.
- Hydraulic spindle series 8-0 for particularly tight parts, available from a particular puller size.
- Auxiliary hydraulic ram series 9 for particularly tight parts, can be used from a particular puller size.
- Almost all components available as replacement parts, time-saving order process thanks to numbering system.

Art No.	14021176	<b>t</b> mm	mm Į	↓ mm	t t	mit with
41-5-B	-887345	180	200	22	7	8-01

#### External extracting

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#### Universal 3-jaw puller with swiveling jaws

For removing bearings, gears, discs, etc.

# 42-0 42-3 42-1 42-2 42-4 42-5



- Swivelling standard puller jaws.
- Mechanical pressure screw.
- Milled thread treated with special coating.
- If there is not adequate free space around the part to be removed, we recommend using a 2-jaw puller (link[MP\_41\_Standard, series 41]).

#### Advantage

- The larger the pulling force, the stronger the puller hook's grip on the workpiece to be removed. Spindle head band prevents the wrench from slipping off.
- Hydraulic spindle series 8-0 for particularly tight parts, available from a particular puller size.
- Auxiliary hydraulic ram series 9 for particularly tight parts, can be used from a particular puller size.
- Almost all components available as replacement parts, time-saving order process thanks to numbering system.

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Art No.	4021176	mm t	mm Į	max. t	₩ max. Nm	 ↓ mm
42-0	-362026	60	40	1,5	25	13
42-1	-015298	65	65	1,5	-	-
42-2	-015373	80	80	1,5	-	-
42-3	-787904	90	120	3,0	40	13
42-4	-836428	130	160	5,0	85	17
42-5	-836596	180	200	7,0	150	22

3-jaw puller with long hydraulic spindle(including mechanical pressure screw)

#### For pulling particularly tight bearings, gears, discs, etc.



#### Description

- Grease hydraulics.
- Swivelling standard puller jaws.
  - Hydraulic spindle and mechanical pressure screw.
- Milled thread treated with special coating. If there is not adequate free space around the part to be removed, we recommend using a 2-jaw

puller (link[MP\_41\_Standard,series 41]).

#### Advantage

The larger the pulling force, the stronger the puller hook's grip on the workpiece to be removed.

- Spindle head band prevents the wrench from slipping off.
- Almost all components available as replacement parts, time-saving order process thanks to numbering system.

Art No.	4021176I	<b>t</b> mm	<b>أ</b> mm	 ↓ mm	t t	mit with
42-5-B	-887352	180	200	22	7	8-01

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#### Description

- Swivelling standard puller jaws.
- Two-arm design for space-saving operation.
- 2-jaw and 3-jaw combination cross beam
- Mechanical pressure screw.
- Milled thread treated with special coating.

- Combi-pullers can be used as a 3-jaw and 2-jaw puller.
- The larger the pulling force, the stronger the puller hook's grip on the workpiece to be removed.
- Spindle head band prevents the wrench from slipping off.
- Hydraulic spindle series 8 for particularly tight-fitting parts also available as an option.
- Auxiliary hydraulic ram series 9 for particularly tight parts, can be used from a particular puller size.

Art No.	4021176l	mm	mm Į	 ↓ mm	max. t	ଟ୍ଟ max. Nm
46-1-A	-016936	300	300	36	12	450
46-2-A	-017193	500	450	36	12	450

#### Universal 2-jaw puller with long hydraulic spindle and swiveling jaws(including mechanical pressure screw)

#### For pulling particularly tight bearings, gears, discs, etc.





•	Swivelling standard puller jaws.
•	Two-arm design for space-saving operation.

Grease hydraulics.

- 2-jaw and 3-jaw combination cross beam
- Hydraulic spindle and mechanical pressure screw.

#### Advantage

Description

- Combi-pullers can be used as a 3-jaw and 2-jaw puller.
- The larger the pulling force, the stronger the puller hook's grip on the workpiece to be removed.
- Spindle head band prevents the wrench from slipping off.
- Almost all components available as replacement parts, time-saving order process thanks to numbering system.

Art No.	<b>4021176</b>	mm	mm mm	 ⊷i mm	t t	₩ max. Nm	mit with
46-1-B	-017018	300	300	36	15	45	8-1-F
46-2-B	-017278	500	450	36	15	45	8-1-F

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#### Universal 3-jaw puller with swiveling jaws For pulling tight-fitting bearings, gears, discs, etc.

#### Description

- Swivelling standard puller jaws.
- 2-jaw and 3-jaw combination cross beam
- Mechanical pressure screw.
- Milled thread treated with special coating.
- If there is not adequate free space around the part to be removed, we recommend using a 2-jaw puller series 46 for optimal distribution of force.

#### Advantage

- Combi-pullers can be used as a 3-jaw and 2-jaw puller.
- The larger the pulling force, the stronger the puller hook's grip on the workpiece to be removed.
- Spindle head band prevents the wrench from slipping off.
- Hydraulic spindle series 8 for particularly tight-fitting parts also available as an option.
- Hydraulic extra press series 9 available as an option for particularly tight parts.

Art No.	4021176	<b>للل</b> mm	mm Į	↓ mm	max. t	max. Nm
47-1-A	-017681	300	300	36	12	450
47-2-A	-017841	500	450	36	12	450

#### Universal 3-jaw puller with long hydraulic spindle and swiveling jaws(including mechanical pressure screw)

For pulling particularly tight bearings, gears, discs, etc.



#### Description

- Grease hydraulics.
- Swivelling standard puller jaws.
- Two-arm design for space-saving operation.
- 2-jaw and 3-jaw combination cross beam
- Hydraulic spindle and mechanical pressure screw.

- Combi-pullers can be used as a 3-jaw and 2-jaw puller.
- The larger the pulling force, the stronger the puller hook's grip on the workpiece to be removed.
- Spindle head band prevents the wrench from slipping off.
- Almost all components available as replacement parts, time-saving order process thanks to numbering system.

Art No.	<b>₩₩₩₩₩₩₩₩</b> 4021176	<b>t</b> mm	mm T	l ⊷I mm		ଟ୍ଟି max. Nm	mit with
47-1-B	-017766	300	300	36	15	45	8-1-F
47-2-B	-017926	500	450	36	15	45	8-1-F

#### Universal 2-jaw puller with adjustable reach and swiveling jaws

For removing bearings, gears, discs, etc.



Description

- Swivelling standard puller jaws.
  - Two-arm design for space-saving operation.
- Mechanical pressure screw.
- Milled thread treated with special coating.
- If there is adequate free space around the part to be removed, we recommend using a 3-jaw puller series 206 for optimal force distribution.

#### Advantage

- The larger the pulling force, the stronger the puller hook's grip on the workpiece to be removed.
  - Universal application thanks to adjustable depths.
- Spindle head band prevents the wrench from slipping off.
- Hydraulic spindle series 8-0 for particularly tight parts, available from a particular puller size. Auxiliary hydraulic ram series 9 for particularly tight parts, can be used from a particular puller size.

Art No.	4021176	<b>t</b> mm	mm	} F×	↓↓  mm	max. t	₩ max. Nm
205-00	-028571	100	100	2	13	3,5	50
205-01	-028656	150	150	2	17	5	120
205-02	-028731	250	220	2	22	7	150
205-1	-028816	300	280	2	27	10	280
205-2	-028991	400	400	3	27	10	300
205-3	-029073	500	540	3	27	12	320

Universal 2-jaw puller with adjustable reach, long hydraulic spindle and swiveling jaws(including mechanical pressure screw)

For pulling particularly tight bearings, gears, discs, etc.



#### Description

Swivelling standard puller jaws.

- Hydraulic and mechanical pressure screw.
- Milled thread treated with special coating.
- Grease hydraulics.
- Two-arm design for space-saving operation.

#### Advantage

- Easy and even pulling for particularly tight parts.
- The larger the pulling force, the stronger the puller hook's grip on the workpiece to be removed.
- Universal application thanks to adjustable depths.
- Spindle head band prevents the wrench from slipping off.
- Almost all components available as replacement parts, time-saving order process thanks to numbering system.

Art No.	14021176	<b>t</b> mm	mm Į	)x	t t	mit with
205-02-В	-886072	250	220	2	7	8-01
205-1-B	-886089	300	280	2	12	8-02
205-2-B	-886096	400	400	3	12	8-02
205-3-B	-886102	500	540	3	12	8-02



#### Universal 3-jaw puller with adjustable reach and adjustable swiveling jaws

For removing bearings, gears, discs, etc.



- Swivelling standard puller jaws.
- The three-arm design ensures that the load is distributed evenly and that the part to be removed is held securely.

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- Mechanical pressure screw.
- Milled thread treated with special coating.
- If there is not adequate free space around the part to be removed, we recommend using a 2-jaw puller series 205.

#### Advantage

- The larger the pulling force, the stronger the puller hook's grip on the workpiece to be removed.
- Universal application thanks to adjustable depths.
- Spindle head band prevents the wrench from slipping off.
  - Hydraulic spindle series 8-0 for particularly tight parts, available from a particular puller size.
- Auxiliary hydraulic ram series 9 for particularly tight parts, can be used from a particular puller size.

Art No.	4021176	mm t	₩ mm	<b>∫</b> ×	 ↓ mm	max. t	ଟ୍ଟ max. Nm
206-00	-029158	100	100	2	13	3,5	50
206-01	-029233	150	150	2	17	5	120
206-02	-029318	250	220	2	22	7	150
206-1	-029493	300	280	2	27	10	280
206-2	-029561	400	400	3	27	10	300
206-3	-029646	500	540	3	27	12	320

Universal 3-jaw puller with adjustable reach, long hydraulic spindle and swiveling jaws(including mechanical pressure screw)



# Description Swive

- Swivelling standard puller jaws.
- The three-arm design ensures that the load is distributed evenly and that the part to be removed is held securely.
  - Hydraulic and mechanical pressure screw.
  - Grease hydraulics.
- Milled thread treated with special coating.

#### Advantage

- Easy and even pulling for particularly tight parts.
- The larger the pulling force, the stronger the puller hook's grip on the workpiece to be removed.
- Universal application thanks to adjustable depths.
- Spindle head band prevents the wrench from slipping off.
- Almost all components available as replacement parts, time-saving order process thanks to numbering system.

Art No.	14021176	<b>t</b> mm	mm	)x		mit with
206-02-B	-886119	100	100	2	7	8-01
206-1-B	-412448	300	280	2	10	8-02
206-2-B	-886126	400	400	3	10	8-02
206-3-B	-886133	500	540	3	12	8-02



hydraulic



#### 3-jaw combination puller with adjustable reach and swiveling jaws

For removing bearings, gears, discs, etc.





Descrip	otion
---------	-------

- Swivelling puller jaws.
  - 2-jaw and 3-jaw combination cross beam
  - Mechanical pressure screw.
- Milled thread treated with special coating.

#### Advantage

- Combi-pullers can be used as a 3-jaw and 2-jaw puller.
  - Universal application thanks to adjustable clamping depths up to a certain size.
  - The larger the pulling force, the stronger the puller hook's grip on the workpiece to be removed. Spindle head band prevents the wrench from slipping off.
- Almost all components available as replacement parts, time-saving order process thanks to numbe
  - ring system.

Art No.	4021176	mm t	mm mm	)  -×	 ⊷i mm	max. t	₩ max. Nm
207-00	-029721	120	100	2	13	3,5	50
207-01	-029806	200	150	2	17	5	120
207-02	-029981	300	220	2	22	7	150
207-1	-030048	400	280	2	27	10	280
207-2	-030123	450	400	3	27	10	300
207-3	-030208	550	540	3	27	12	320

#### 3-jaw combination puller with adjustable reach, long hydraulic spindle and swiveling jaws(including mechanical pressure screw) ST

For pulling particularly tight bearings, gears, discs, etc.



#### Description

- Swivelling standard puller jaws.
  - Two-arm design for space-saving operation.
- 2-jaw and 3-jaw combination cross beam
- Hydraulic and mechanical pressure screw.
- Grease hydraulics.

#### Advantage

- Combi-pullers can be used as a 3-jaw and 2-jaw puller.
- Easy and even pulling for particularly tight parts.
- The larger the pulling force, the stronger the puller hook's grip on the workpiece to be removed.
- Universal application thanks to adjustable depths.
- Spindle head band prevents the wrench from slipping off.

Art No.	4021176	<b>اللہ اللہ</b> mm	<u>mm</u> mm	) ×		mit with
207-02-В	-886140	300	170	2	7	8-01
207-1-B	-886157	400	230	2	10	8-02
207-2-В	-886164	450	350	3	10	8-02
207-3-B	-886171	550	490	3	12	8-02

#### 3-jaw combination puller with adjustable reach and swiveling jaws

For removing bearings, gears, discs, etc.



Description

- Swivelling puller jaws.
- 2-jaw and 3-jaw combination cross beam
- Mechanical pressure screw.
- Milled thread treated with special coating.

#### Advantage

- Combi-pullers can be used as a 3-jaw and 2-jaw puller.
  - Universal application thanks to adjustable clamping depths up to a certain size.
- The larger the pulling force, the stronger the puller hook's grip on the workpiece to be removed.

Art No.	4021176	<b>t</b> mm	mm mm	)  -×		max. t	₩ max. Nm
205-65	-880056	650	650	1	41	12	300
205-80	-880063	800	800	1	41	12	300
205-95	-880049	1000	1000	1	41	12	300
207-65	-880100	650	650	1	41	15	400
207-80	-880117	800	800	1	41	15	400
207-95	-880094	1000	1000	1	41	15	400

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#### 2-jaw pullers with quick adjusting capability and T-jaws with claw feet

For tight spaces when pulling sprockets, bearings and similar parts.



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- Shears pulling hooks.
  - Parallel pulling hooks in every position, even with full load.
  - Mechanical pressure screw.
- Milled thread treated with special coating.

#### Advantage

- Self-securing locking pins do not fall out during work.
- Clamping widths and depths can be selected on an individual basis.

mm

6 - 100

5 - 140

6 - 100

10 - 140

15 - 140

- Puller is self-tensioning and easy to handle.
- Extremely high clamping width range thanks to variable assembly of puller arms.
- Shear-style hook design presses the claw-style feet when pulling the part to be removed.

mm

85

160

85

125

160

mm

13

17

13

17

17

<b>W</b>		1		Art No.	4021176
	Ĩ	ī	BESTSELLER		-459559
22		10 A		14-03	-460111
				14-1	-455421
				14-2	-248443
L • 1	[•]	F • 1		14-3	-248511

#### 2-jaw quick adjusting pullers

For removing bearings, gears, discs, etc.



Description
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- Standard pulling hook.
- Automatic self-centering pulling hooks.
- Two-arm design for space-saving operation.
- Mechanical pressure screw.
- Milled thread treated with special coating.

#### Advantage

After the puller has been set up, the puller hooks lock automatically using a system of cams.
 Almost all components available as replacement parts, time-saving order process thanks to numbering system.

Art No.	4021176	Ţ			max.	ਰ max.
		mm	mm	mm	t	Nm
28-1	-850929	50 - 125	100 - 135	24	6	120
28-2	-851001	50 - 150	125 - 150	24	6	120
28-3	-851186	50 - 200	175 - 200	24	8	150
28-4	-851261	50 - 250	225 - 250	24	8	150



# Pullers with self-centering jaws

#### 3-jaw combination puller with locking mechanism in plastic bag



#### Description

- Universal use with 2-jaw and 3-jaw cross-beam.
- Self-locking stop pins ensure quick and easy replacement of the pulling jaws without having to relieve the pressure spring in advance.
- You can set the pulling jaw position with the easily accessible locking lever.
- The innovative spring technology allows for a compact, maintenance-free design.
- Ergonomic design for better grip.

#### Advantage

- Powerful universal practical.
  - Versatile: can be used as an internal or external extractor, with 2-jaw or 3-jaw pullers, with or without a slide hammer. Automatic tensioning and centering of the extractor jaws.
- No unintentional release of the puller from the bearing thanks to the locking lever and spread adjuster.
- The puller can also be used with a slide hammer.

Art No.	4021176	Ţ	ŢŢ	ŢŢ	max.
		mm	mm	mm	t
486-1	-019753	22 - 160	55-180	130	4

ST

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max.

Nm

30

40

50

80

100

max.

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2,5

3,5

4,5

#### 3-jaw combination puller set with locking mechanism

NEWCOMER

#### Description

- Universal use with 2-jaw and 3-jaw cross-beam.
- Self-locking stop pins ensure quick and easy replacement of the pulling jaws without having to relieve the pressure spring in advance.
- You can set the pulling jaw position with the easily accessible locking lever.
- The innovative spring technology allows for a compact, maintenance-free design.
- Ergonomic design for better grip.

#### Advantage

- Powerful universal practical.
- Versatile: can be used as an internal or external extractor, with 2-jaw or 3-jaw pullers, with or without a slide hammer.
- Automatic tensioning and centering of the extractor jaws.
- No unintentional release of the puller from the bearing thanks to the locking lever and spread adjuster. The puller can also be used with a slide hammer.

Art No.	4021176	mm	<b>ب</b> لم mm	mm mm	<u></u> ∏ mm	) ( ↓← mm	max. t	
K-486-1	-909856	22 - 160	55-180	130	320	M16x1,5	4	L-Boxx

External extracting Internal extracting

#### 2-jaw small part puller with self-centering jaws

SWITCHOLIMS

For removing particularly small bearings, gears or discs, etc. for tight or difficult-to-access spaces.

- Description

  - Automatic self-centering pulling hooks.
  - Two-arm design for space-saving operation.
- Mechanical pressure screw.
- Milled thread treated with special coating.

#### Advantage

- This handy, space-saving model is particularly suited for vehicle electrical equipment, electrical workshops, compressed air repair processes and other similar applications.
- The thin pulling hooks are suitable for narrow, difficult-to-access locations.

shops, compressed air repair processes and other similar applications. The thin pulling hooks are suitable for narrow, difficult-to-access locations.

Art No.	4021176	mm	mm Į	ہ <b>ا</b> mm	∭ J <u>I</u> mm	) mm
43-001	-913518	60	50	1,5	10	4,5

#### 3-jaw small part puller with self-centering jaws

For removing particularly small bearings, gears or discs, etc. for tight or difficult-to-access spaces.

Description

Thin pulling hooks. Automatic self-centering pulling hooks. The three-arm design ensures that the load is distributed evenly and that the part to be removed is

Advantage

held securely.

Mechanical pressure screw.

Milled thread treated with special coating.

|--|--|

Art No.	4021176	<b>اللہ</b> mm	mm Ī	<b>∫</b> mm	∭ V <u>I</u> mm	) mm
43-011	-913501	60	50	1,5	10	4,5

This handy, space-saving model is particularly suited for vehicle electrical equipment, electrical work-

-8	







ST

- Thin pulling hooks.

#### Universal 2-jaw puller with self-centering jaws

For removing small bearings, gears or discs, etc. for tight or difficult-to-access spaces.

<ul> <li>Almost all components available as replacement parts, time-saving order process thanks to numbe- ring system.</li> </ul>							
Art No.	4021176	mm t		max. t			
43-1	-015458	60	50	1			
43-2	-015861	70	70	1			
43-3	-015946	80	80	1			

This handy, space-saving model is particularly suited for vehicle electrical equipment, electrical work-

#### Universal 3-jaw puller with self-centering jaws

For removing small bearings, gears or discs, etc. for tight or difficult-to-access spaces.



# DescriptionThin pulling hooks.

- Automatic self-centering pulling hooks.
- The three-arm design ensures that the load is distributed evenly and that the part to be removed is held securely.
- Mechanical pressure screw.
- Milled thread treated with special coating.

#### Advantage

Description

Advantage

Thin pulling hooks.

Mechanical pressure screw.

Automatic self-centering pulling hooks. Two-arm design for space-saving operation.

Milled thread treated with special coating.

shops, compressed air repair processes and other similar applications. The thin pulling hooks are suitable for narrow, difficult-to-access locations.

- This handy, space-saving model is particularly suited for vehicle electrical equipment, electrical workshops, compressed air repair processes and other similar applications.
- The thin pulling hooks are suitable for narrow, difficult-to-access locations. Almost all components available as replacement parts, time-saving order process thanks to numbe-
- Almost all components available as replacement parts, time-saving order process thanks to numbering system.

Art No.	4021176	<b>بالم</b> mm	<b>₼</b> <u>Ī</u> mm	max. t
43-11	-015526	60	50	1,5
43-12	-015601	70	70	1,5
43-13	-015786	80	80	1,5

#### Universal 2-jaw puller with self-centering jaws

For removing bearings, gears, discs, etc.



#### Description

Standard pulling hook.

- Automatic self-centering pulling hooks.
- Two-arm design for space-saving operation.
- Mechanical pressure screw.
- Milled thread treated with special coating.

#### Advantage

- Spindle head band prevents the wrench from slipping off.
- Almost all components available as replacement parts, time-saving order process thanks to numbering system.

Art No.	4021176	mm t	<u>mm</u> mm	<b>↓</b> mm	max. t	ଟ୍ଟ max. Nm
44-1	-016028	100	100	13	3	50
44-2	-016103	120	120	17	5	85
44-3	-016288	160	160	19	6	140
44-4	-016363	250	200	24	7	190
44-5	-815133	300	250	24	9,5	200
44-6	-815218	375	275	24	9,5	200

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#### Universal 3-jaw puller with self-centering jaws

For removing bearings, gears, discs, etc.





- Standard pulling hook.
  - Automatic self-centering pulling hooks.
  - The three-arm design ensures that the load is distributed evenly and that the part to be removed is held securely.
- Optimal adjustment of the spindle to the shaft with 2-sided spindle tip.
- Mechanical pressure screw.

#### Advantage

- Spindle head band prevents the wrench from slipping off.
- Almost all components available as replacement parts, time-saving order process thanks to numbering system.

Art No.	4021176	Ţ	Ţ	max.	ਰੂ max.
		mm	mm	t	Nm
45-1	-016448	100	100	4	50
45-2	-016516	120	120	6	120
45-3	-016691	160	160	8	180
45-4	-016776	250	200	9,5	200
45-5	-815393	300	250	9,5	200
45-6	-815478	375	275	9,5	200
45-7	-821646	600	350	9,5	200

#### 2-jaw pullers for roller bearings, swedish model

For removing bearings, gears, discs, etc.



#### Description

- Standard pulling hook.
- Automatic self-centering pulling hooks.
- Two-arm design for space-saving operation.
- Mechanical pressure screw.
- Milled thread treated with special coating.

#### Advantage

- Quick adjustment of the spread by a knurled cone.
- Spindle head band prevents the wrench from slipping off.
- Almost all components available as replacement parts, time-saving order process thanks to numbering system.

Art No.	4021176	mm	mm	↓  mm	max. t	ਰ max. Nm
112-1	-418143	55	45	8	1,5	25
112-10	-418891	65	70	8	1,5	25
112-2	-419218	90	70	17	3	55
112-20	-420283	100	100	17	3	55
112-3	-420368	185	165	17	4	65

#### 3-jaw pullers for roller bearings, swedish model

For removing bearings, gears, discs, etc.



#### Description

- Standard pulling hook.
- Automatic self-centering pulling hooks.
- The three-arm design ensures that the load is distributed evenly and that the part to be removed is held securely.
- Mechanical pressure screw.
- Milled thread treated with special coating.

#### Advantage

- Quick adjustment of the spread by a knurled cone.
- Spindle head band prevents the wrench from slipping off.
- Almost all components available as replacement parts, time-saving order process thanks to numbering system.

Art No.	4021176	mm t	<b>أ أ</b>	 ⊷  mm	max. t	₩ max. Nm
113-20	-422423	125	100	17	3	45
113-3	-422751	185	165	17	4	60



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#### Universal 2-jaw pullers with Auto-Snap

For removing bearings, gears, discs, etc. for tight or difficult-to-access spaces.



- Description
  - Automatic tensioning and centering of the extractor jaws.
  - Thanks to the integrated force transmission via the spring mechanism, the clamping force increases in proportion to the pulling force.
  - Two-arm design for space-saving operation.
  - Mechanical pressure screw.
  - Milled thread treated with special coating.

#### Advantage

The elastic effect and slim design enables parts to be pulled in difficult-to-reach places. Almost all components available as replacement parts, time-saving order process thanks to numbering system.

Art No.	4021176	mm h	mm T	l ⊨ mm	max. t	ଟ୍ଟ max. Nm
482-1	-479779	15 - 60	40	-	1,5	-
482-2	-479854	20 - 85	90	-	1,5	-
482-3	-479939	150	150	10	2,5	35
482-4	-480096	200	200	13	3	40
482-5	-480171	250	250	13	3	40

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For removing bearings, gears, discs, etc. for tight or difficult-to-access spaces.



#### Description

- Automatic tensioning and centering of the extractor jaws.
- Thanks to the integrated force transmission via the spring mechanism, the clamping force increases in proportion to the pulling force.
- The three-arm design ensures that the load is distributed evenly and that the part to be removed is held securely.
- Mechanical pressure screw.
- Milled thread treated with special coating.

#### Advantage

- The elastic effect and slim design enables parts to be pulled in difficult-to-reach places.
- Almost all components available as replacement parts, time-saving order process thanks to numbering system.

Art No.	4021176	mm t	mm T	<mark>↓</mark>   mm	max. t	ਰ max. Nm
483-2	-480331	85	90	-	1,5	-
483-3	-480416	150	150	10	2,5	35
483-4	-480584	200	200	13	3	40
483-5	-480669	250	250	13	3	40

#### 2-jaw Auto-Snap pullers in display package

For removing bearings, gears, discs, etc. for tight or difficult-to-access spaces.



Description

- Automatic tensioning and centering of the extractor jaws.
- Thanks to the integrated force transmission via the spring mechanism, the clamping force increases
   in proportion to the pulling force.
- Two-arm design for space-saving operation.
- Mechanical pressure screw.
- Milled thread treated with special coating.

- The elastic effect and slim design enables parts to be pulled in difficult-to-reach places.
  - Almost all components available as replacement parts, time-saving order process thanks to numbering system.
- Complete easy-to-manage package.
- Kit in the tried-and-tested KUKKO-i-Boxx-System.

Art No.	4021176	mm time	mm Į		Stück pieces	
K-482	-123245	150	150	482-1, 482-2, 482-3	3	i-Boxx

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#### 2-jaw puller with cone-driven spread adjuster For removing bearings, gears, discs, etc.

#### Description

Automatic self-centering pulling hooks.

- Cone-guided spread adjustment.
- Two-arm design for space-saving operation.
- Mechanical pressure screw.
- Milled thread treated with special coating.

#### Advantage

- Quick adjustment of the spread by a knurled cone.
- Turning the pulling hooks enables them to be used both internally and externally.
- A tube of KUKKO special grease included for pressure spindle.

Art No.	4021176	rtt mm	<u>mm</u>
220-02	-778919	200	165

#### 3-jaw puller with cone-driven spread adjuster

For removing bearings, gears, discs, etc.



#### Description

- Automatic self-centering pulling hooks.
- Cone-guided spread adjustment.
  - The three-arm design ensures that the load is distributed evenly and that the part to be removed is
  - held securely.
- Mechanical pressure screw. Milled thread treated with special coating.

#### Advantage

- Quick adjustment of the spread by a knurled cone.
- Turning the pulling hooks enables them to be used both internally and externally.
- A tube of KUKKO special grease included for pressure spindle.

Art No.	4021176	mm	<b>†</b> <u>↑</u> mm
220-03	-779091	200	165

#### Universal puller with slide hammer

For removing bearings, gears, discs, etc.



#### Cone-guided spread adjustment.

- Flexibility assured thanks to two-arm or three-arm design.
- Mechanical pressure screw.
- Milled thread treated with special coating.

Automatic self-centering pulling hooks.

#### Advantage

Description

- Quick adjustment of the spread by a knurled cone.
- Turning the pulling hooks enables them to be used both internally and externally.
- Also suitable for removing parts with threaded holes due to the bolt disc included in the set.
- A tube of KUKKO special grease included for pressure spindle.

Art No.	4021176	<b>t</b> mm	mm Į	
220	-030611	0 - 200	165	220-02, 220-03
220-K	-874055	0 - 200	165	220-02, 220-03

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#### aw puller for fan wheels

The extra thin hooks move through the two slits and grip the fan's collar.

#### Description

. The pulling hooks are reversible and can be used on both sides with various different types of hooks.

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- The multiple boreholes in the pulling hooks enable users to work with variable reach.
- Two-arm design for space-saving operation.
- Mechanical pressure screw.
- Spindle head band prevents the wrench from slipping off.

#### Advantage

Universal application thanks to adjustable clamping depths and two types of hook. Almost all components available as replacement parts, time-saving order process thanks to numbering system.

Art No.	4021176	mm m	mm T	}_×
201-S	-026911	200	200	3

#### 3-jaw puller for fan wheels

The extra thin hooks move through the three slits and grip the fan's collar.

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#### Description

- The pulling hooks are reversible and can be used on both sides with various different types of hooks. The multiple boreholes in the pulling hooks enable users to work with variable reach.
- The three-arm design ensures that the load is distributed evenly and that the part to be removed is held securely.
- Mechanical pressure screw.
- Spindle head band prevents the wrench from slipping off.

#### Advantage

- Universal application thanks to adjustable clamping depths and two types of hook.
- Almost all components available as replacement parts, time-saving order process thanks to numbering system.



#### 2-jaw pullers with reversible double-end jaws

For removing bearings, gears, discs, etc.



#### Description

- Swiveling and reversible puller hooks.
- Two-arm design for space-saving operation.
- Mechanical pressure screw.
- Milled thread treated with special coating.

- The pulling hooks are reversible and can be used on both sides with various different types of hooks. The larger the pulling force, the stronger the puller hook's grip on the workpiece to be removed.
- Spindle head band prevents the wrench from slipping off.
- Auxiliary hydraulic ram series 9 for particularly tight parts, can be used from a particular puller size.
- Almost all components available as replacement parts, time-saving order process thanks to numbering system.

Art No.	4021176	mm	mm mm	Ĵ	mm	 ↓ mm	max. t	max.
201-0	-026423	100	75	1	-	14	1,5	25
201-1	-026591	150	85	1	-	17	5	75
201-2	-026676	220	130	1	8	22	7	150
201-3	-026751	300	260	2	8	27	10	250
201-4	-026836	380	300	2	-	27	10	250

External extracting

#### 3-jaw pullers with reversible double-end jaws

# For removing bearings, gears, discs, etc.



Descri	ption
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Swiveling and reversible puller hooks.

- The three-arm design ensures that the load is distributed evenly and that the part to be removed is held securely.
- Mechanical pressure screw.
- Milled thread treated with special coating.
- If there is not adequate free space around the part to be removed, we recommend using a 2-jaw puller serie 201.

#### Advantage

- The pulling hooks are reversible and can be used on both sides with various different types of hooks.
- The larger the pulling force, the stronger the puller hook's grip on the workpiece to be removed. Spindle head band prevents the wrench from slipping off.
- Auxiliary hydraulic ram series 9 for particularly tight parts, can be used from a particular puller size. Almost all components available as replacement parts, time-saving order process thanks to numbering system.

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Art No.	4021176	<b>t</b> mm	mm mm	}_×	mm	 ↓ mm	max. t	max.
202-0	-027093	100	75	1	-	14	1,5	25
202-1	-027178	150	85	1	-	17	5	75
202-2	-027253	220	130	1	8	22	7	150
202-3	-027338	300	260	2	8	27	10	250
202-4	-027413	380	300	2	-	27	10	250

#### 3-jaw combination pullers with reversible double-end jaws

For removing bearings, gears, discs, etc.





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- Combi-pullers can be used as a 3-jaw and 2-jaw puller.
- Swiveling and reversible puller hooks.
- Mechanical pressure screw.
- Milled thread treated with special coating. .

#### Advantage

- The pulling hooks are reversible and can be used on both sides with various different types of hooks.
- The larger the pulling force, the stronger the puller hook's grip on the workpiece to be removed.
- Spindle head band prevents the wrench from slipping off.
- Auxiliary hydraulic ram series 9 for particularly tight parts, can be used from a particular puller size. Almost all components available as replacement parts, time-saving order process thanks to numbering system.

Art No.	₩₩₩₩₩₩ 4021176	mm t	mm	∳_×	<b>●</b> → mm	max. t	ਰਾ max. Nm
203-0	-027666	120	75	1	14	1,5	25
203-1	-027741	180	85	1	17	5	75
203-2	-027826	280	130	1	22	7	150
203-3	-027901	350	260	2	27	10	250
203-4	-028083	400	300	2	27	10	250



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#### Pullers with side clam

#### 2-jaw bearing pullers "Cobra" with separating claw and side clamp

# For removing tight ball bearings, bearing rings and workpieces.

#### Description

Puller hooks are specially hardened and smoothed.

- With integrated clamp.
- Mechanical pressure screw.
- Milled thread treated with special coating.

#### Advantage

When the tension clamp is tightened, the pulling jaws grip below the part to be removed and loosen it before the actual removal process.

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- Clamps increase the pressure of the hooks significantly and prevent the puller from slipping.
- Spindle head band prevents the wrench from slipping off.
- Safe, fast and efficient disassembly.
- No cut-off grinding, chiselling or hammering required

Art No.	4021176	<b>t</b> mm	mm Į	 ↓ mm	max. t	max. Nm
204-0	-028168	50	70	-	1	-
204-02	-339516	90	100	22	4	75

#### Universal 2-jaw pullers with side clamp

For removing particularly tight ball bearings, bearing rings and workpieces.



#### Description

• With integrated clamp.

- Mechanical pressure screw.
  - Milled thread treated with special coating.

- Clamps increase the pressure of the hooks significantly.
- Spindle head band prevents the wrench from slipping off.
- Safe, fast and efficient disassembly.
- Almost all components available as replacement parts, time-saving order process thanks to numbering system.
- Note: Pressure pads from series 600-17 are a good addition if the shaft is hollow and the spindle cannot be supported.

Art No.	4021176	<b>t</b> mm	mm Į	 ↓ mm	max. t	문 max. Nm
204-1	-028243	80	90	19	5	100
204-2	-028328	100	100	22	6	120
204-3	-028403	150	140	24	7,5	175



#### 2-jaw separator pullers "Cobra" with adjustable reach

#### For pulling bearings, gears, discs, etc. that are lying flat against one another.



Two-arm design for space-saving operation.

With integrated clamp.

#### Advantage

Description

- Double-sided hooks.
  - When the tension clamp is tightened, the pulling jaws grip below the part to be removed and loosen it before the actual removal process.

The pulling hooks are reversible and can be used on both sides with 2 different types of hooks.

The multiple boreholes in the pulling hooks enable users to work with variable reach.

Universal application thanks to adjustable clamping depths and two types of hook.

One side features normal pulling claws and the other, separating claws.

Clamps increase the pressure of the hooks significantly.

Puller hooks are specially hardened and smoothed.

Spindle head band prevents the wrench from slipping off.

Art No.	₩₩₩₩₩₩ 4021176	<b>t</b> mm	mm t	) }	 ⊢ mm	max. t	₩ max. Nm
210-1	-030383	95	170	4	22	5	100
210-2	-030468	135	270	5	24	8	140
210-3	-030536	150	325	5	24	10	200

#### Universal puller set with side clamp

For pulling and removing bearings, gears, etc.

#### Description

- . The legs of the puller feature an adjustable height, are partially invertible, and have standard pulling and separating claws.
- Puller hooks are specially hardened and smoothed.
- The multiple boreholes in the pulling hooks enable users to work with variable reach.
- Collar can be used for both pullers and provides additional stability and support for the separation process.
- Mechanical pressure screw.

#### Advantage

- Universal application thanks to adjustable clamping depths and two types of hook.
- Clamps increase the pressure of the hooks significantly.
- Safe, fast and efficient disassembly.
- Almost all components available as replacement parts, time-saving order process thanks to numbering system.
- Practical package for universal use.

Art No.	4021176	mm interest in the second seco	mm mm	<b>↓</b> mm	۲		
K-204-02-210-1	-038464	90 - 100	100 - 170	17, 22	5	204-02, 210-1, 1007-17, 1007-22, 225-150	i-Boxx

























#### 3-jaw "alligator" pullers with pre-settable jaws

For removing bearings, gears, discs, etc.



#### Description

The pulling jaws are fastened with screws and easy to replace.

- Standard pulling hook.
- Moving and slipping is prevented by self lock.
- The three-arm design ensures that the load is distributed evenly and that the part to be removed is held securely.
- Mechanical pressure screw.

#### Advantage

- The Alligator conversions ensure that the pulling hooks can only be opened and closed by operating the adjustment spanner. The grip of the conversions is therefore as strong as an alligator's bite.
- Spindle head band prevents the wrench from slipping off.
- Almost all components available as replacement parts, time-saving order process thanks to numbering system.

Art No.	4021176	mm the second se	mm t	↓↓  mm	max. t	ਰ max. Nm
12-1	-006616	100	100	17	8	180
12-2	-006791	150	125	19	9	190
12-3	-006876	200	165	24	10	250



The pulling jaws are fastened with screws and easy



#### 3-jaw puller with pre-settable jaws for inside and outside pulling

For removing bearings, gears, discs, etc.



Description

- 3-jaw puller with pre-settable jaws for inside and outside pulling
- The three-arm design ensures that the load is distributed evenly and that the part to be removed is held securely.
- Moving and slipping is prevented by self lock.
- Mechanical pressure screw.
- Milled thread treated with special coating.

#### Advantage

- The Alligator conversions ensure that the pulling hooks can only be opened and closed by operating the adjustment spanner. The grip of the conversions is therefore as strong as an alligator's bite.
- Spindle head band prevents the wrench from slipping off.

Art No.	4021176	Ţ			max.	ଟ୍ଟି max.
		mm	mm	mm	t	Nm
12-4	-850509	250	225	27	10	300
12-5	-850684	350	275	27	10	300
12-6	-850769	450	300	36	15	280
12-7	-850844	650	350	36	15	280

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#### Small-part pullers, e.g. for speedometer cable pullers For speedometer cable, pressure gauges, clocks, model building, etc.

#### Description

- Extra narrow gripping jaws.
- With exchangeable centring pin.
- Mechanical pressure screw.

#### Advantage This handy, space-saving model is particularly suited for speedometer cables, pressure gauges, clock

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model making and other similar applications.
The thin jaws are suitable for narrow, difficult-to-access locations.

Art No.	4021176	<b>Ļ</b> mm	LH [	LW mm	mm
140-1	-266720	2,25	10	10	0,9 / 1,3 / 1,8
140-2	-266737	3,50	15	15	0,9 / 1,3 / 1,8 / 2,0
140-3	-266751	5,25	18	18	0,9 / 1,3 / 1,8 / 2,0 / 3,0

#### Small-part pullers set

For speedometer cable, pressure gauges, clocks, model building, etc.



#### Description

- Extra narrow gripping jaws.
- With exchangeable centring pin.
- Mechanical pressure screw.
- Instructions on the cover.
- Secure storage in special foam.

#### Advantage

This handy, space-saving model is particularly suited for speedometer cables, pressure gauges, clock, model making and other similar applications.

- The thin jaws are suitable for narrow, difficult-to-access locations.
- Set also includes 2 precision screwdrivers.

Complete easy-to-manage package. Complete set packaged in a practical KUKKO L-Boxx-Mini.



#### Small-part puller

For speedometer cable, pressure gauges, clocks, model building, etc.





#### Description

- Extra narrow gripping jaws.
- Mechanical pressure screw.

#### Advantage

- This handy, space-saving model is particularly suited for speedometer cables, pressure gauges, clock model making and other similar applications.
- The thin jaws are suitable for narrow, difficult-to-access locations.

Art No.	₩₩₩₩₩₩₩ 4021176	<b>Ļ</b> mm	LH [	Liv mm	mm
Micro	-974755	5	20	18	1

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Puller Economy

#### Universal 2-jaw pullers "Vario"

For removing bearings, gears, discs, etc.

#### Description

- Standard pulling hook.
- The end stop protects the hook from slipping off the cross-beam.
- Pulling hooks with infinitely variable adjustment on the cross-beam.
- Two-arm design for space-saving operation.
- Mechanical pressure screw.

#### Advantage

- Quick change or turning of the pulling jaws by depressing the end stop.
- Turning the pulling hooks enables them to be used both internally and externally. Suitable for pulling asymmetric workpieces.
- Spindle head band prevents the wrench from slipping off.

Almost all components available as replacement parts, time-saving order process thanks to numbe-

Art No.	4021176	<b>T</b>		
		mm	mm	mm
120-1	-918551	100	100	17
120-10	-918599	125	100	17
120-2	-918636	150	150	17
120-20	-918674	200	150	17
120-3	-918711	250	200	24
120-30	-918759	350	200	24

Sales display "Economy

For removing bearings, gears, discs, etc.

**SMITCHOLINS** 



#### Description

- The sales and workshop stands enable 2-jaw pullers to be stored and presented safely.
- Standard pulling hook
  - The end stop protects the hook from slipping off the cross-beam.
  - Two-arm design for space-saving operation.
  - Pulling hooks with infinitely variable adjustment on the cross-beam.

#### Advantage

- Quick change or turning of the pulling jaws by depressing the end stop.
  - Turning the pulling hooks enables them to be used both internally and externally.
- Suitable for pulling asymmetric workpieces.
- Spindle head band prevents the wrench from slipping off.
- Almost all components available as replacement parts, time-saving order process thanks to numbering system.

Art No.	4021176		Stück pieces
120-ST	-961489	120-1, 120-10, 120-2, 120-20, 120-3, 20-STL	5

#### Universal 3-jaw pullers "Vario



#### Description

- Standard pulling hook.
- The end stop protects the hook from slipping off the cross-beam.
- The three-arm design ensures that the load is distributed evenly and that the part to be removed is held securely.
- Mechanical pressure screw.
- Exchangeable spindle top.

#### Advantage

- Quick change or turning of the pulling jaws by depressing the end stop.
  - Turning the pulling hooks enables them to be used both internally and externally.
- Suitable for pulling asymmetric workpieces.
- Spindle head band prevents the wrench from slipping off.
- Almost all components available as replacement parts, time-saving order process thanks to numbering system.

Art No.	4021176	Ţ			
		mm	mm	mm	
130-10	-918834	110	100	17	
130-2	-918872	150	150	17	
130-20	-918919	200	150	17	
130-3	-918957	250	200	24	

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#### Universal 2-jaw pullers "Techno"

For removing bearings, gears, discs, etc.



#### Description

- Standard pulling hook.
  - The pin protects the pulling jaw from slipping off the cross-beam.
  - The pulling jaws are consistently straight and equally slim.
  - Pulling hooks with infinitely variable adjustment on the cross-beam.
- Two-arm design for space-saving operation.

#### Advantage

- Turning the pulling hooks enables them to be used both internally and externally.
- Spindle head band prevents the wrench from slipping off.
- Almost all components available as replacement parts, time-saving order process thanks to numbering system.

Art No.	4021176	اللہ اللہ اللہ اللہ اللہ اللہ اللہ اللہ	<u>أ</u> mm	 ↓ mm
110-01	-923753	50	50	10
110-02	-923760	80	50	10
110-1	-923777	100	100	17
110-10	-923784	120	100	17
110-2	-923791	160	150	19
110-20	-923807	200	150	19
110-3	-923814	250	200	22
110-4	-956317	350	250	22

#### Farm and workshop puller with jaws of varying lengths, in set

For removing bearings, gears, discs, etc.



#### Description

- Four pairs of jaws for different jobs.
  - Particularly suitable for agricultural machinery.
  - Two-arm design for space-saving operation.
- Pulling hooks with infinitely variable adjustment on the cross-beam.
- Mechanical pressure screw.

#### Advantage

- Versatile and economical.
- By simply turning the pulling jaws, they can be used both internally and externally. The pulling jaws can be connected with bolts (M10 / 3/8") up to a reach of 580 mm (23"). Spindle head band prevents the wrench from slipping off.
- Almost all components available as replacement parts, time-saving order process thanks to numbering system.

Art	4021176	<b>ب</b> ل	<b>t</b> ∱	⊥_
No.		mm	mm	mm
200-U	-025433	250	80 - 180	22

#### Farm and workshop puller with jaws in varying lengths, in set with metal case

For removing bearings, gears, discs, etc.

#### Description

- Four pairs of jaws for different jobs.
- Particularly suitable for agricultural machinery.
- Two-arm design for space-saving operation.
- Pulling hooks with infinitely variable adjustment on the cross-beam.
- Mechanical pressure screw.

- Versatile and economical.
- By simply turning the pulling jaws, they can be used both internally and externally. The pulling jaws can be connected with bolts (M10 / 3/8") up to a reach of 580 mm (23"). Spindle head band prevents the wrench from slipping off.
- Almost all components available as replacement parts, time-saving order process thanks to numbering system.

Art No.	4021176	<b>t</b> mm	mm t	 ↓ mm		
200-UM	-025501	250	80 - 180	22	200-U	Metall

#### Universal 2-jaw puller with adjustable reach and swiveling jaws For removing bearings, gears, discs, etc.

i or removing bearings, gears, uiscs,



	Art No.	4021176	Ţ	<b>דו</b>	Ţx		max.	₩ max.
			mm	mm	J	mm	t	Nm
208	3-01	-432408	20 - 170	95 - 125	2	17	2	20
208	3-02	-432651	20 - 230	150 - 190	2	22	2,5	50

If there is adequate free space around the part to be removed, we recommend a 3-jaw puller series

The larger the pulling force, the stronger the puller hook's grip on the workpiece to be removed.

Almost all components available as replacement parts, time-saving order process thanks to numbe-

#### Universal 3-jaw puller with adjustable reach and adjustable swiveling jaws

For removing bearings, gears, discs, etc.



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Description

Advantage

ring system.

Curved, swiveling standard puller hooks with height adjustment.

Curved, swiveling standard puller hooks with height adjustment.

Two-arm design for space-saving operation.

Milled thread treated with special coating.

Universal application thanks to adjustable depths. Spindle head band prevents the wrench from slipping off.

Mechanical pressure screw.

209 for optimal force distribution.

- Two-arm design for space-saving operation.
- Mechanical pressure screw.
- Milled thread treated with special coating.
- If there is not adequate free space around the part to be removed, we recommend a 2-jaw puller series 208 for optimal force distribution.

#### Advantage

- The larger the pulling force, the stronger the puller hook's grip on the workpiece to be removed.
  - Universal application thanks to adjustable depths.
- Spindle head band prevents the wrench from slipping off.
- Almost all components available as replacement parts, time-saving order process thanks to numbering system.

Art No.	4021176	mm	mm I	) 	 ⊢ mm	max. t	max.
209-01	-432576	20 - 170	95 - 125	2	17	2	20
209-02	-432736	20 - 230	150 - 190	2	22	2,5	50

#### 2-jaw puller with reversible double-end jaws

For removing bearings, gears, discs, etc.





#### Description

- Swiveling and reversible puller hooks.
- Two-arm design for space-saving operation.
- Parallel pulling hooks in every position, even with full load.
- Mechanical pressure screw.
- Milled thread treated with special coating.

#### Advantage

- The pulling hooks are reversible and can be used on both sides with various different types of hooks.
- Universal application thanks to adjustable depths.
- The larger the pulling force, the stronger the puller hook's grip on the workpiece to be removed. Spindle head band prevents the wrench from slipping off.
- Almost all components available as replacement parts, time-saving order process thanks to numbering system.

Art No.	4021176	mm t	mm t	}_×	 ↓ mm	max. t	₩ max. Nm
208-0	-432248	100	50 - 100	2	8	1	20

ST

ST

#### 3-jaw puller with reversible double-end jaws





#### Description

- Swiveling and reversible puller hooks.
- The three-arm design ensures that the load is distributed evenly and that the part to be removed is held securely.
- Parallel pulling hooks in every position, even with full load.
- Mechanical pressure screw.
- Milled thread treated with special coating.

#### Advantage

- The pulling hooks are reversible and can be used on both sides with various different types of hooks.
- Universal application thanks to adjustable depths.
  - The larger the pulling force, the stronger the puller hook's grip on the workpiece to be removed. Spindle head band prevents the wrench from slipping off.
- Almost all components available as replacement parts, time-saving order process thanks to numbering system.



Art No.	4021176	mm t	mm t	) j	<b>●</b>   <b>→</b>   mm	max. t	ଟ୍ଟି max. Nm
209-0	-432323	100	50 - 100	2	8	1	20

#### Universal 2-jaw "economy" puller with adjustable reach, long hydraulic spindle and swiveling jaws

For pulling particularly tight bearings, gears, discs, etc.





- Swivelling standard puller jaws.
- Two-arm design for space-saving operation.
- Grease hydraulics.
- Milled thread treated with special coating.
- If there is adequate free space around the part to be removed, we recommend using a 3-jaw puller series 206-B for optimal force distribution.

#### Advantage

- Easy and even pulling for particularly tight parts.
- The larger the pulling force, the stronger the puller hook's grip on the workpiece to be removed.
- Universal application thanks to adjustable depths.
- Spindle head band prevents the wrench from slipping off.
- Almost all components available as replacement parts, time-saving order process thanks to numbering system.

Art No.	4021176	<b>ر اللہ</b> mm	mm t	) ×	
208-2-B	-432811	400	225 - 400	3	12

#### Universal 3-jaw "economy" puller with adjustable reach, long hydraulic spindle and swiveling jaws

ST

ST





#### Description

- Swivelling standard puller jaws.
- Two-arm design for space-saving operation.
- Mechanical pressure screw.
- Grease hydraulics.
- Milled thread treated with special coating.

#### Advantage

- Easy and even pulling for particularly tight parts.
- The larger the pulling force, the stronger the puller hook's grip on the workpiece to be removed.
- Universal application thanks to adjustable depths.
- Spindle head band prevents the wrench from slipping off.
- Almost all components available as replacement parts, time-saving order process thanks to numbering system.

Art No.	4021176	mm	mm t	) ×		· 문 max. Nm
209-2-B	-432996	500	225 - 400	3	15	45







- Consisting of: Internal extractor and counter support or internal extractor and slide hammer.
- Proven thousands of times for extracting ball bearings, ball bearing outer rings and bushings.
- Even bearings fitted quite tightly to the back wall can be securely grasped and quickly removed with the excellent clamping mechanism.
- Guarantee for high performance and long service life.

KUKKO

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02

Selection of the right internal puller type......**74** Auswahl der richtigen Innen-Ausziehvorrichtung

Combination options Kombinationsmöglichkeiten	76
Internal extractor Innenauszieher	78-79
Slide hammers and sets Gleithämmer und Sätze	80-85
Counterstays and sets Gegenstützen und Sätze	83-84
Dowel-pins Passstifte	84-85



# Selection of the right internal puller type





pressure

pull

# 1st step: What is the interior diameter of the ball bearing





# Combinations of internal pullers with counter stays and slide hammers



Counter stays and slide hammers can be combined with internal extractors of various sizes.

The appropriate thread adapters are delivered with orders for counter stays and slide hammers.

# Mode of operation

For pulling internal ball bearings, ball bearing outer rings and bushings. The bearings are securely grasped by the internal puller, in the inner ring, and quickly removed using the clamping effect. In order to be able to remove a bearing with an internal puller, a counter support or a slide hammer from series 22 will always be required.

# **Accessories: Extensions**



Many of the KUKKO internal extractors in the 21 series (not 21-E) can be expanded using an extension (series 21-V) for extracting parts set deep inside a bushing.

# **Accessories: Thread adapters**



The KUKKO slide hammers can be used in combination with the thread adapters 22-1-AS anywhere where the threaded pin can be screwed directly into the part that needs to be removed.

# Safety instructions for internal pulling





When using a counter stay, ensure that the jaws of the counter stay do not block the part being removed.



Note: the internal extractors must grip firmly underneath the part to be removed.



If there is too little space in the bushing below the part to be removed, an internal extractor from series 21-E may be used..

The QR codes guide you to more information and usage videos online



# Combination of counter stay with internal extractors, series 21



Combination of slide hammer with internal extractors, series 21



A world **in motion** since 1919!

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# Combination of counter stay with segmented internal extractors, series 21-E





# Combination of slide hammer with segmented internal extractors, series 21-E





#### Internal extractors

21-0

For extracting inner bearings, bearing outer rings and bushings.

# 21-1 21-7 21-00 21-8 21-2 21-01 21-3 21-9 21-02 21-4 21-5 21-6



# 21-89 21-90



No.	4021176		Ī		Segment		<b>K</b> (I)
		mm	mm	mm	Segment		
21-0	-010408	5 - 8	14	73	2	22-0	22-1
21-00	-010576	6 - 10	14	73	2	22-0	22-1
21-01	-010651	8 - 12	14	73	2	22-0	22-1
21-02	-010736	10 - 14	14	73	2	22-0	22-1
21-1	-010811	12 - 16	25	72	2	22-0	22-1
21-2	-010996	14 - 19	27	72	2	22-0	22-1
21-3	-011153	18 - 23	35	89	2	22-0, 22-0-1	22-1, 22-2
21-4	-011238	20 - 30	40	92	2	22-0, 22-0-1	22-1, 22-2
21-5	-011498	28 - 40	23	101	2	22-0, 22-0-1	22-1, 22-2
21-6	-011566	35 - 46	50	113	2	22-0-1	22-2, 22-3
21-7	-011641	45 - 58	85	135	2	22-0-1	22-2, 22-3

85

95

120

175

133

166

187

220

2

2

3

3

22-0-1

22-0-1

22-0-2

22-0-2

The 2-shell design with extra large grasp edges ensures safe extraction.

Spare parts are available for internal extractor sizes 21-89 and 21-90.

56 - 70

70 - 100

56 - 110

100 - 200

The internal extractors are equipped with an internal safety stop to protect against excess spreading

Å

22-2, 22-3 22-3

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22-4

22-5

KUKKO internal extractors can be combined with counter supports and slide hammers.

#### Needle bearing extractors

To extract internal needle bearings.





21-8

21-9

21-89

21-90

Description

Advantage

Art.-

and overloading. Mechanical pressure screw.

-011726

-011986

-011801

-012068

The 2-shell design with extra large grasp edges ensures safe extraction.

The internal extractors are equipped with an internal safety stop to protect against excess spreading and overloading.

Mechanical pressure screw.

Milled thread treated with special coating.

#### Advantage

Description

Mechanical pressure screw.

KUKKO internal extractors can be combined with counter supports and slide hammers.

Art No.	4021176	mm	∎ <u>∓</u> mm	∎ Ţ mm	● ♥ ● ♥ Segment	Contention of the second seco	K M
21-40	-411526	9,6 - 18	18	92	2	22-0, 22-0-1	22-1, 22-2
21-41	-186066	11,5 - 19	18	92	2	22-0, 22-0-1	22-1, 22-2
21-42	-186141	12,5 - 21	19	92	2	22-0, 22-0-1	22-1, 22-2
21-43	-186226	14,5 - 22	19	92	2	22-0, 22-0-1	22-1, 22-2
21-44	-186301	16,5 - 23	23	92	2	22-0, 22-0-1	22-1, 22-2
21-45	-186486	18,5 - 24	23	92	2	22-0, 22-0-1	22-1, 22-2
21-46	-186554	20 - 25	23,5	92	2	22-0, 22-0-1	22-1, 22-2

#### **Needle bearing extractors**

For pulling needle bearings, bearing bushings and outer bearing rings which have little or no undercut.



Advantage The needle bearing extractor is particularly suited for removing the guide bearing (06B105313D) on

little room for gripping of the internal extractor "from behind".

the clutches of most models by VW / Audi / Skoda / Seat Besides positive interlocking, force-fitted pulling is also possible through high preloading.

The segmented design with extra short and fine grasp edges facilitates safe removal when there is

- KUKKO internal extractors can be combined with counter supports and slide hammers.
- Art.-4001176 Ī Į ● 🏶 M No. Segment mm mm mm 21-44-Е -039300 15 - 20 50 90 3 22-0, 22-0-1 22-1, 22-2

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### Segmented internal extractor

#### For extracting bearings, bearing outer rings and bushings that lay flat on one another. Description

21-0-E

21-00-E

21-01-E

21-1-Е

21-2-E

21-3-E





The segmented design with extra fine grasp edges ensures safe extraction.

KUKKO internal extractors can be combined with counter supports and slide hammers. Almost all components available as replacement parts, time-saving order process thanks to numbe-

Mechanical pressure screw.

Advantage

ring system.

T

Extensions for internal extractors





# Advantage

extracted.

Description

Almost all components available as replacement parts, time-saving order process thanks to numbering system.

When combined with the internal extractors, extensions from series 21 enable deeper bearings to be

Art No.	4021176	L ∣←→∣ mm	
21-V-040	-909214	40	21-0, 21-00, 21-01, 21-02, 21-2
21-V-060	-909221	60	21-0, 21-00, 21-01, 21-02, 21-2
21-V-080	-909238	80	21-0, 21-00, 21-01, 21-02, 21-2
21-V-310	-914386	100	21-3, 21-4, 21-5, 21-40, 21-41, 21-42, 21-43, 21-44, 21-45, 21-46

#### Set of extensions for internal extractors

Set of extensions for internal extractor.





#### Description

When combined with the internal series 21 extractors, extensions enable deeper bearings to be loosened.

#### Advantage

 Almost all components available as replacement parts, time-saving order process thanks to numbering system.

Art No.	4021176	<b>∟</b> i←→i mm	соонанията		
21-V-0	-909207	40; 60; 80; 100	21-0, 21-00, 21-01, 21-02, 21-2, 21-3, 21-4, 21-5, 21-40, 21-41, 21-42, 21-43, 21-44, 21-45, 21-46	21-V-040, 21-V-060, 21-V-080, 21-V-310	Metall

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#### Slide hammer devices

For use with series 21, series 21-E or series 22-1-AS.



• TIP: 22-0	No supporting surface required. TIP: 22-0-2 The impact of the slide hammer can be increased by increments of 3 kg by screwing in one or multiple supplementary weights 22-0-2-100.										
Art No.	4021176	₩ mm	<b>Å</b> + kg			HG ↓ G					
22-0	-012143	290	0,5	M12	M12/M10	AG: M10 IG: M7	21-0, 21-00, 21-01, 21-02, 21-1, 21-2, 21-3, 21-4, 21-5, 21-0-E, 21-1-E, 21-2-E, 21-3-E, 21-4-E, 21-40, 21-41, 21-42, 21-43, 21-44, 21-45, 21-46				
22-0-1	-555558	320	1,7	M16 x1,5	,5 M16x1,5 - G1/2" AG: G1/2" IG: 15-16G AG: 15-16G IG: M10		21-3, 21-4, 21-5, 21-6, 21-7, 21-8, 21-9, 21-0-E, 21-00-E, 21-01-E, 21-1-E, 21-2-E, 21-3-E, 21-4-E, 21-5-E, 21-6-E, 21-7-E, 21-40, 21-41, 21-42, 21-43, 21-44, 21-45, 21-46				
22-0-2	-111204	700	5,0	G1/2″	-	AG: G1/2" IG: G3/4"	21-89, 21-90 22-0-2-100				
22-0-2-100	-111211	3 kg	Zusatz	gewicht / s	upplementa	ry weight	22-0-2				
G-22	-018442			М		22-0, 22-0-1, 22-02					



#### Advantage

.

Description

Advantage

Contactless and careful pulling of internal bearings, etc.

Space-saving with strong shock effect.

Ergonomically-shaped, solid sliding parts for optimum transfer of force.

3 component handle for maximum transfer of force, even when hands are wet or greasy. You keep a secure grip – before, during and after the removal process.

- Lower risk of injury.
- Fatigue-free operation with the 3-K handle.

## Counterstays

For use with series 21, series 21-E or series 22-1-AS.



- The arms on the counter supports are easy-to-adjust thanks to an internal spring mechanism. (size 1 to 3)
- The counter support nuts' friction resistance is reduced to a minimum as a result of the built-in pressure bearing.
- Thanks to their support struts, sizes (4 and 5) counter struts are particularly suited for large ball bearings, etc., and ensure that the assembly remains stable during the extraction process.
- Mechanical pressure screw.
- Advantage

The counter support can be combined with internal extractors and KUKKO screw adapters.

Almost all components available as replacement parts, time-saving order process thanks to numbering system.

Art No.	4021176	<b>₫</b> mm		max. t	South Here
22-1	-012228	55	120	3	21-0, 21-00, 21-01, 21-02, 21-1, 21-2, 21-3, 21-4, 21-5, 21-0-E, 21-00-E, 21-01-E, 21-1-E, 21-2-E, 21-3-E, 21-4-E, 21-40, 21-41, 21-42, 21-43, 21-44, 21-45, 21-46
22-2	-012303	100	165	4	21-3, 21-4, 21-5, 21-6, 21-7, 21-8, 21-0-E, 21-00-E, 21-01-E, 21-1-E, 21-2-E, 21-3-E, 21-4-E, 21-5-E, 21-6-E, 21-7-E, 21-40, 21-41, 21-42, 21-43, 21-44, 21-45, 21-46
22-3	-012488	180	280	5	21-6, 21-7, 21-8, 21-9
22-4	-112478	200	205	7	21-89
22-5	-012556	300	260	9	21-90







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## Percussion type bearing extractor sets

Non-contact extraction of internal bearing, bushings, etc.

26-A 26-B



- Non-contact extraction.
  - Internal extractor with slide hammer
  - The 2-shell design with extra large grasp edges ensures safe extraction.
- The internal extractors are equipped with an internal safety stop to protect against excess spreading and overloading.
- Mechanical pressure screw.

#### Advantage

- Practical package for universal use.
- KUKKO internal extractors can be combined with counter supports and slide hammers. Almost all components available as replacement parts, time-saving order process thanks to numbe-
- ring system.
- Complete easy-to-manage package.
- Kit in the tried-and-tested KUKKO-i-Boxx-System.

Art No.	mm	∭. mm	<b>Å</b> ← kg	<u>) (</u> Į		tig		Stück pieces	
26-A	6 - 19	290	0,9	M12	M12 - M7; M12 - M10; M 12 - 15-16G	-	21-00, 21-01, 21-02, 21-1, 21-2, KS-22-01-GH, VM12-1516, VM12-10, VM12-7	9	i-Boxx
26-B	12 - 40	320	1,7	M16 x 1,5	M16x1,5 - G1/2"	AG:1/2" IG:15-16G; AG:15-16G IG:M10; AG:M10 IG:M7	22-0-1, 21-1, 21-2, 21-3, 21-4, 21-5, GA7-10	7	i-Boxx

The internal extractors are equipped with an internal safety stop to protect against excess spreading

Almost all components available as replacement parts, time-saving order process thanks to numbe-

KUKKO internal extractors can be combined with counter supports and slide hammers.

#### Set of slide hammer for extracting ball bearings and dowel-pins

For non-contact extraction of interior bearings, outer bearing rings, bushings and components with threads (dowel pins, parallel keys, bolts, etc.).

Description

Advantage

Non-contact extraction.

and overloading.

ring system.

Internal extractor, dowel pins with slide hammer.

For removing parts with centric threaded holes.

Complete easy-to-manage package.

The 2-shell design with extra large grasp edges ensures safe extraction.

Practical assembly is particularly suitable for tool and mold-making.



28-A



Art No.	mm	∭ mm	<b>Å</b> + kg			HG ↓ ↓ ↓ G	Ţ	<b>+</b>	Æ	Stk. Pcs.	C
28-A	6 - 19	290	0,9	M12	M12-M7; M12-M10; M12-15-16G	-	M10	M3-M18	21-00, 21-01, 21-02, 21-1, 21-2, KS-22-01-GH, GE4-10, GE5-10, GE6-10, GE8-10, GE10-10, GE12-10, VM12-1516, VM12-1516, VM12-10, GE13-10, GE14-10, GE13-10, GE18-10, VM12-7	19	i- Boxx
28-B	12 - 40	320	1,7	M16 x1,5	M16x1,5- G1/2″	AG: 1/2 IG: 15-16G AG: M10 IG: M7 AG: 1/2 IG: M18x1,5 AG: 15-16G IG: M10	M18x1,5	M8-M24	22-0-1, 21-1, 21-2, 21-3, 21-4, 21-5, GE14-1815, GE16-1815, GE20-1815, GE22-1815, GE24-1815, GE7-10, GA12- 1815, GE8-1815, GE10-1815, GE12-1815,	17	i- Boxx

28-B



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#### Sets of bearing extracting tools

#### For extracting inner bearings, bearing outer rings and bushings.

# 

25-B

25-A





# Ball bearing extracting set with counterstay and slide hammer

For extracting inner bearings, bearing outer rings and bushings.



K-22-A-E K-22-B-E K-22-C-E



Art No.	4021176	mm		Stück pieces	
25-A	-013058	12 - 46	22-1, 22-2, 21-1, 21-2, 21-3, 21-4, 21-5, 21-6	8	L-Boxx
25-B	-013133	12 - 70	22-1, 22-2, 21-1, 21-2, 21-3, 21-4, 21-5, 21-6, 21-7, 21-8	10	L-Boxx
25-C	-013218	12 - 110	22-1, 22-2, 22-4, 21-1, 21-2, 21-3, 21-4, 21-5, 21-6, 21-7, 21-89	11	L-Boxx (2 St./pcs.)
25-D	-158803	56 - 110	22-4, 21-89	2	L-Boxx
25-К	-863899	6 - 19	22-1, 21-00, 21-02, 21-2	4	i-Boxx
25-N	<b>5-N</b> -787096 115-25		22-1, 21-41, 21-42, 21-43, 21-44, 21-45, 21-46	7	i-Boxx

The 2-shell design with extra large grasp edges ensures safe extraction.

The internal extractors are equipped with an internal safety stop to protect against excess spreading

The arms on the counter supports are easy-to-adjust thanks to an internal spring mechanism. (size 1

Thanks to their support struts, sizes (4 and 5) counter struts are particularly suited for large ball bea-

Almost all components available as replacement parts, time-saving order process thanks to numbe-

KUKKO internal extractors can be combined with counter supports and slide hammers.

rings, etc., and ensure that the assembly remains stable during the extraction process.

#### Description

Description

Advantage

to 3)

ring system.

and overloading. Mechanical pressure screw.

Instructions on the cover.

Milled thread treated with special coating.

Practical package for universal use.

- Use of the internal extractor in combination with slide hammers or counter supports.
- The segmented design with extra fine grasp edges ensures safe extraction.
- Instructions on the cover.
- Secure storage in special foam.
- Personal KUKKO-Chip-Code.

#### Advantage

- Practical package for universal use.
- Thanks to the KUKKO modular system, the counterstay and the sliding hammer can be combined and subsequently completed with segmented internal extractors, needle bearing extractors, threaded inserts, etc.
- Almost all components available as replacement parts, time-saving order process thanks to numbering system.
- Complete easy-to-manage package.

Art No.	mm	∭. mm	<b>Å</b> ← kg	<u>) (</u> T		tig		Stück pieces	Ô
К-22-А-Е	4,8 - 16	240	0,5	M10	M10	AG: M10 - IG: M7	22-0, 22-1, 21-0-E, 21-00-E, 21-01-E, 21-1-E	6	i-Boxx
К-22-В-Е	12 - 34	240	0,5	M10	M10	AG: M10 - IG: M7	22-0, 22-1, 21-1-E, 21-2-E, 21-3-E, 21-4-E	6	i-Boxx
К-22-С-Е	4,8 - 34	240	0,5	M10	M10	AG: M10 - IG: M7	22-0, 22-1, 21-0-E, 21-00-E, 21-01-E, 21-1-E, 21-2-E, 21-3-E, 21-4-E	9	L-Boxx



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## Sets of bearing pulling and extracting tools

PEREN

AVORITE

# For pulling bearings, gears and discs and for extracting interior bearings, outer bearing rings and bushings.

Description

.

- For automotive repairs and servicing.
- Set contains exterior pulling device, internal extractor, counter supports and pulling device chuck.
- The 2-shell design with extra large grasp edges ensures safe extraction.
- The internal extractors are equipped with an internal safety stop to protect against excess spreading and overloading.
- The puller chuck is used for pulling separable bearing inner races on magnets, light machines, electric motors and small electrical machinery.

#### Advantage

- Practical package for universal use.
- Variable reach thanks to jaw extensions, available up to a puller size of -30.
- Suitable for pulling asymmetric workpieces.
- Spindle head band prevents the wrench from slipping off.
- Cross-beam, up to size -30, includes hexagonal profile for holding.

24-B	
24-C	

24-A

Art No.	4021176	mm t	mm		Stück pieces	
24-A	-012716	60 - 90	12 - 46	20-1, 43-1, 22-1, 22-2, 21-1, 21-2, 21-3, 21-4, 21-5, 21-6, 23	11	L-Boxx (2 St./pcs.)
24-B	-012891	60 - 160	12 - 70	20-1, 20-2, 43-1, 22-1, 22-2, 21-1, 21-2, 21-3, 21-4, 21-5, 21-6, 21-7, 21-8, 23	14	L-Boxx (2 St./pcs.)
24-C	-012976	60 - 160	12 - 58	20-1, 20-2, 43-1, 22-1, 22-2, 22-4, 21-1, 21-2, 21-3, 21-4, 21-5, 21-6, 21-7, 21-89, 23	15	L+Boxx (mit/with 2 i-Boxx)

#### Set of slide hammer and counterstays for extracting ball bearings and dowel-pins

For extracting interior bearings, outer bearing rings and bushings and components with threads (dowel-pins, parallel-keys, bolts, etc.).

Description

- The 2-shell design with extra large grasp edges ensures safe extraction.
- The internal extractors are equipped with an internal safety stop to protect against excess spreading and overloading.
- For removing parts with centric threaded holes.
- KUKKO thread inserts can be combined with counter supports and slide hammers.
- Instructions on the cover.

#### Advantage

- Practical assembly is suitable for universal application and particularly for tool and mold-making.
  - KUKKO internal extractors can be combined with counter supports and slide hammers.
- The arms on the counter supports are easy-to-adjust thanks to an internal spring mechanism. (size 1 to 3) Complete easy-to-manage package.
- Almost all components available as replacement parts, time-saving order process thanks to numbering system.



Light SHIFT Casy Screw

Art No.	4021176	mm						Ô	Stück pieces
28-C	-466762	12 - 46	M12	M12 -M7; M12 - M10; M12 - 15-16G	M10	M3; M4; M5; M6; M8; M10; M12; M14; M16; M18	223-K, 25-A	L+Boxx (mit/with 1 i-Boxx)	22
28-D	-466779	12 - 70	M12	M12 -M7; M12 - M10; M12 - 15-16G	M12	M3; M4; M5; M6; M8; M10; M12; M14; M16; M18	223-К, 25-В	L+Boxx (mit/with 1 i-Boxx)	24

## Key-lifter for keys in slots

For easy, damage-free extraction of tight splines from the keyways of shafts.



Art No.	4021176	mm	mm	<b>►∰</b> •] mm	mm
139-1	-779176	122 - 144	0 - 35	110	4

ST

ST

#### Cylinder liner puller set Set for extracting cylinder liners.

# K-16



#### Milled thread treated with special coating. Advantage Almost all components available as replacement parts, time-saving order process thanks to numbering system. Complete easy-to-manage package.

KUKKO-L-Boxx-System compatible with systems by all common manufacturers.

Art No.	4021176	mm		Stück pieces		
K-16	-161506	60 - 155	16-22, 16-21	4	L-Boxx	
16-21	-251559	Innenauszieher / Internal extractor				
16-22	-251634	Gegenstütze / Counterstay				

Three expansion elements guarantee optimal adaptation of the internal extractor to the respective application. The counter support nuts' friction resistance is reduced to a minimum as a result of the built-in pressure bearing. With their support struts, the counter supports are particularly suited for large cylinder liners and ball bearings, etc., and ensure that the assembly remains stable during the extraction process.

#### Set of thread inserts





#### Advantage Almost all components available as replacement parts, time-saving order process thanks to numbering system. ₽. Ŧ Art.-4021176 Ŗ No. M4; M5; M6; M8; M10; M12 22-0, 22-0-1, 22-1, 22-2, 22-3 -339288 M10 22-1-AS

Use of the threaded inserts in combination with slide hammers or counter supports.

#### Sets of slide hammers in case

For extracting bushings and components with threads (dowel-pins, parallel-keys, bolts, etc.).

....

KS-22-01 KS-22-01

Description

Description

Description

Mechanical pressure screw.

- KUKKO screw adapters can be combined with counter supports and slide hammers.
- Milled thread treated with special coating.

For removing parts with centric threaded holes.

Secure storage in special foam.

#### Advantage

- Practical package for universal use.
- Almost all components available as replacement parts, time-saving order process thanks to numbering system.
- Complete easy-to-manage package.
- Clean and convenient storage in the plastic case.

Art No.	∭. mm	<b>Å</b> ← kg	<u>کر</u>		dan da da da da da da da da da da da da da		Stk./ pcs.	
KS-22-01	290	0,9	M12	M12 - M7; M12 - M10; M12 - 15-16G		KS-22-01-GH, GA12-3, GA12-4, GA12-5, GA12-6, GA12-8, GA12-10, VM12-1516, VM12-10, VM12-7	10	Kunst- stoff/ plastic
KS-22-02	290	0,9	M12	M12 - M7; M12 - M10; M12 - 15-16G	IG: M12 AG: M6; M8x1; M10; M10x1; M12x1; M15x1,5	KS-22-01-GH, GA12-6, GA12-10, VM12-1516, VM12-10, VM12-7, GA12-81, GA12-101, GA12-121, GA12-1515	10	Kunst- stoff/ plastic

#### **Extractor for parts with tapholes**



#### Description

KUKKO thread inserts can be combined with counter supports and slide hammers.

#### Advantage

Almost all components available as replacement parts, time-saving order process thanks to numbering system.

Art No.	4021176			<u>) (</u> ]	∭. mm	<b>Å</b> ← kg
223	-309083	M3; M4; M5; M6; M8; M10; M12; M14; M16; M18	10	M12/M10	290	0,9

ST

ST

ST

## Set of parallel-key and dowel-pin extractors

223-K 223-G

# For extracting bushings and components with threads (dowel-pins, parallel-keys, bolts, etc.).

Description

.

- For removing parts with centric threaded holes.
- KUKKO thread inserts can be combined with counter supports and slide hammers.
- Instructions on the cover.
- Secure storage in special foam. Personal KUKKO-Chip-Code.

#### Advantage

- Practical package for universal use.
- Almost all components available as replacement parts, time-saving order process thanks to numbering system.
- Kit in the tried-and-tested KUKKO-i-Boxx-System.

Art No.	∑ mm	<b>Å</b> ← kg			∰ AG ↑IG	<b>□</b>			Stk./ pcs.	Ċ
223-K	290	0,9	M12	M12-M7; M12-M10; M12-15-16G	-	M10	M3; M4; M5; M6; M8; M10; M12; M14; M16; M18	KS-22-01-GH, 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	14	i-Boxx
223-G	320	1,7	M16x1,5	M16x1,5 - G1/2	AG:G1/2 IG:15-16G; AG:15-16G IG:M10; AG:G1/2 IG:M18x1,5		M8; M10; M12; M14; M16; M18; M20; M22; M24	GE20-1815, GE22-1815,	11	i-Boxx

#### Internal extractor with slide hammer



#### Description

- Internal extractor with slide hammer
- Contactless and careful pulling of internal bearings, etc.
- 221-G: Functional model with a wide working range.
- Space-saving with strong shock effect.

#### Advantage

No supporting surface required.

Art No.	4021176	Ø		<b>Å</b> ≁ kg
221-G	-175824	30-180	320	1,7
224-1	-325656	12-35	320	0,8
224-2	-325571	15-50	320	0,8

#### **Universal puller set**

For removal, separation and internal extraction of bearings, gears, discs, etc.



- Description
  - for the 4 basic principles of extraction:
  - 1. External extraction.
- 2. Separating. 3. Internal pulling.
- 4. Internal extraction by intervention in the ball bearing.

#### Advantage

- Practical package for universal use.
- Complete easy-to-manage package.
- Almost all components available as replacement parts, time-saving order process thanks to numbering system.

Art No.	<b>t</b> mm	mm				Stück pieces	
27-A	50 - 60	9,5 - 48	M12	M12 - 1516G M12 - M10	204-0, 21-0-E, 21-00-E, 21-01-E, 21-1-E, 21-2-E, 21-3-E, 21-4-E, 21-5-E, 43-001, 69-1, 69-A2, 69-A3, 22-01-G27-A, GA12-3, GA12-4, GA12-5, GA12-6, GA12-8, GA12-10, VM12-1516	21	L-Boxx

ST

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# Series 15 and 17 separators with series 18 pulling device

For removing ball bearings, roller bearings, inner races and other tight parts if there is not enough space to use pulling hooks.

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@ +E 69-35)

- The sharp, wedge-shaped blades of the separator are pressed behind the part to be removed and, in this process, push between the bearing and seat.
- In order to remove them from the shaft, the tension bolts of the appropriate pulling device must be screwed into the two threaded holes of the separator.

KUNKKO





# 



Selection of the right separating device Auswahl der richtigen Trennvorrichtung	88
Separators Trennvorrichtungen	90
Pulling devices Abziehvorrichtungen	92
Accessories Separating Zubehör Trenn-Abziehen	93



# Selection of the right separating type



The part to be removed is level. It is not possible to use standard puller jaws!



# **<u>1st step:</u>** What is the diameter of the shaft of the flush bearing?





# **<u>3rd step:</u>** Choice of the pulling device

3 pulling device series 18



# 4th step: Combination of the separating blade with the pulling device



# Mode of operation

For pulling tight parts such as ball bearings, roller bearings, inner rings and simliar. The sharp, wedge-shaped blades are pressed behind the parts to be removed and, in this process, push between the bearing and the seat.

For pulling, the tension bolts on the pulling device (series 18) must be screwed into the separator.



Normally, a separator blade is used in combination with a puller device.



If the separating jaws are screwed into the pulling device the other way round, then pulling can be carried out flush and gently.



In some cases, an appropriate puller from the 20 series can be used instead of the puller bar.

**Accessories: Extansions** 



It is also possible to extend the puller bar for jobs involving longer shafts.

# Accessories: long hydraulic spindles



For particularly secure parts, in the larger models (from 18-2), the mechanical pressure spindle can be swapped for a hydraulic pressure spindle.

# **More Separators**



The extensive KUKKO line also supplies separators with side clamps, such as the 204 and 210 Cobra series.

# **Safety instructions for separating**



The adjusting nuts on the separator must be tightened in alternating and equal turns. Otherwise, the separator blade may tilt on the bolt or the thread may be damaged.



When pulling the separator blade, ensure that before the pulling device is pulled upwards the blade is firmly seated up to the stop under the part to be removed.





The side bolts of the pulling device must always be spindleed into the separator blade until they stop.



**KUKKO tool factory** Separating

#### **Separators**

For removing ball bearings, roller bearings, inner races and other tight parts if there is not enough space to use pulling hooks.

#### Description

- The sharp blades enable flush parts to be removed where pulling jaws cannot be used.
- The wedge-shaped separator jaws are secured underneath the component to be removed.

ST

ST

- The large supporting surfaces protect the parts to be pulled.
- Mechanical pressure screw.

#### Advantage

Ultimate stability when removing, as the separator and pulling device are screwed firmly together. Almost all components available as replacement parts, time-saving order process thanks to numbering system.

Art No.	4021176	Ø mm	mm	Constant Fischer Constant Sector
15-00	-101854	6 - 40	40	18-00
15-0	-006951	8 - 60	60	18-0
15-1	-007033	12 - 75	75	18-1
15-2	-007118	22 - 115	115	18-2, 18-2-B
15-3	-007293	25 - 155	155	18-3, 18-3-B
15-4	-007378	30 - 200	200	18-4, 18-4-B
15-5	-007453	30 - 250	250	18-5, 18-5-B

#### Separating-sets

For removing ball bearings, roller bearings, inner races and other tight parts if there is not enough space to use pulling hooks.



15-A 15-K





The sharp blades enable flush parts to be removed where pulling jaws cannot be used. The wedge-shaped separator jaws are secured underneath the component to be removed. The large supporting surfaces protect the parts to be pulled. Instructions on the cover.

#### Advantage

Description

Ultimate stability when removing, as the separator and pulling device are screwed firmly together. Practical package for universal use.

4-parts, the sets contain one separator, one pulling device and a pair of extensions.

- Complete easy-to-manage package.
- Almost all components available as replacement parts, time-saving order process thanks to numbering system.
  - Kit in the tried-and-tested KUKKO-i-Boxx-System.

Art No.	4021176	Ø ₩ mm	<b>††††</b> <u>↑</u> mm	mm		Stück pieces	
15-K	-007941	8 - 60	71 - 250	50 - 110	15-0, 18-0, 19-1-P	4	i-Boxx
15-A	-007521	12 - 75	122 - 300	60 - 150	15-1, 18-1, 19-1-P	4	i-Boxx
15-B	-007606	22 - 115	125 - 350	60 - 200	15-2, 18-2, 19-2-P	4	L-Boxx
15-C	-007781	25 - 155	144 - 400	80 - 300	15-3, 18-3, 19-3-P	4	Metall/Metal
15-D	-007866	30 - 200	134 - 550	120 - 380	15-4, 18-4, 19-4-P	4	Metall/Metal
15-E	-308826	30 - 250	225 - 600	150 - 440	15-5, 18-5, 19-5-P	4	Metall/Metal

ST

#### Separators with quick clamping pressure spindle

For removing ball bearings, roller bearings, inner races and other tight parts if there is not enough space to use pulling hooks.

Description

- With quick-clamping pressure spindle.
- The sharp blades enable flush parts to be removed where pulling jaws cannot be used.
- The wedge-shaped separator jaws are secured underneath the component to be removed.
- The large supporting surfaces protect the parts to be pulled.

-008108

#### Advantage

• Easy to use, as the separator jaws are quickly and centrally tensioned with just one pressure spindle.

Ø

mm

8 - 60

mm

60

- Ultimate stability when removing, as the separator and pulling device are screwed firmly together. Almost all components available as replacement parts, time-saving order process thanks to numbe-
- ring system.

Art.-

No.

17-0

03

18-0 18-1 18-2 18-3

ST

17-1	-008283	12 - 75	75
17-2	-008368	22 - 115	115
17-3	-008443	25 - 155	155

With quick-clamping pressure spindle.

Practical package for universal use. Complete easy-to-manage package.

#### Separating-sets with quick clamping pressure spindle

For removing ball bearings, roller bearings, inner races and other tight parts if there is not enough space to use pulling hooks.

Description

Advantage

4-parts, the sets contain one separator, one pulling device and a pair of extensions.

The large supporting surfaces protect the parts to be pulled.

The sharp blades enable flush parts to be removed where pulling jaws cannot be used. The wedge-shaped separator jaws are secured underneath the component to be removed.









	Almost all components available as replacement parts, time-saving order process thanks to numbe- ring system.								
Art No.	4021176	Ø ₩ mm	<b><b>†††</b><u>†</u> mm</b>	<b>₩</b> mm		Stück pieces			
17-K	-008856	8 - 60	71 - 250	50 - 100	17-0, 18-0, 19-1-P	4	i-Boxx		
17-A	-008511	12 - 75	122 - 300	60 - 150	17-1, 18-1, 19-1-P	4	i-Boxx		
17-B	-008696	22 - 115	125 - 350	60 - 200	17-2, 18-2, 19-2-P	4	L-Boxx		
17-C	-008771	25 - 155	144 - 400	80 - 300	17-3, 18-3, 19-3-P	4	Metall/Metal		

Easy to use, as the separator jaws are quickly and centrally tensioned with just one pressure spindle. Ultimate stability when removing, as the separator and pulling device are screwed firmly together.

#### Universal set of separator, puller and ball bearing extractor

ST

For simple and problem-free free removal of ball bearings, cylinders, discs, pole wheels and similar parts on motorcycles and other small motors

Description

Advantage

ring system.

Instructions on the cover.

Practical package for universal use. Complete easy-to-manage package.

Kit in the tried-and-tested KUKKO-i-Boxx-System.

. Two-arm puller: Clamping span: 95 mm, clamping depth: 115 mm Clamping depth extensions 95 mm

For separating and pulling bearings with an exterior diameter of 6-40 mm. Extraction of ball bearings, series 6004-6013, 6201-6206, 6300-6305



Art No.	4021176	Ţ			(50)		mit with	Stück pieces	Ô
		mm	mm	mm		mm			
29-A-69	-101878	25 - 95	115 - 210	6 - 40	6004–6013; 6201–6206; 6300–6305	12	69-A, 1007-17, 1007-22, 225-150, 15-00	12	i-Boxx

Almost all components available as replacement parts, time-saving order process thanks to numbe-

#### **Pulling devices**

For use with series 17, series 15, series 18-AS and series 18-A.

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- For use with series 15 and 17 separators.
- The pulling device can be combined with the series 18-0-AS screw adapter to remove parts with threaded holes.
- Mechanical pressure screw.
- Milled thread treated with special coating.

#### Advantage

Ultimate stability when removing, as the separator and pulling device are screwed firmly together.
Almost all components available as replacement parts, time-saving order process thanks to numbering system.

18+15	18+17	

Art No.	4021176	<b>ŢŢŢ</b>	<u>†</u> †		max.	ਰੂ max.	COMINABLE
		mm	mm	mm	t	Nm	
18-00	-101939	60	25 - 100	12	1,5	40	15-00
18-0	-075599	71 - 150	50 - 110	13	3	40	15-0, 17-0
18-1	-075674	122 - 200	60 - 150	19	5	70	15-1, 17-1
18-2	-075759	125 - 250	60 - 200	22	7	120	15-2, 17-2
18-3	-005961	144 - 300	80 - 300	27	10	280	15-3, 17-3
18-4	-006043	134 - 350	120 - 380	36	15	450	15-4
18-5	-075834	225 - 400	150 - 440	41	20	500	15-5

#### Hydraulic pulling device(including mechanical pressure screw)

Description

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- For use with series 15 and 17 separators.
- Hydraulic spindle and mechanical pressure screw.
- Milled thread treated with special coating.

#### Advantage

- Easy and even pulling for particularly tight parts.
- Ultimate stability when removing, as the separator and pulling device are screwed firmly together. Almost all components available as replacement parts, time-saving order process thanks to numbering system.

Art No.	4021176				max.	mit with	KOMBIWERBAR
		mm	mm	mm	t		
18-2-B	-885723	125 - 250	60 - 200	22	7	8-01	15-2, 17-2
18-3-B	-885730	144 - 300	80 - 300	27	10	8-02	15-3, 17-3
18-4-B	-885747	134 - 350	120 - 380	36	15	8-1-B	15-4
18-5-B	-885754	225 - 400	150 - 440	41	20	8-2-M	15-5

#### 2 Extensions for pulling devices (pair)

hydraulic





# Description

For increasing the reach of the series 18 pulling device.

Advantage

As a spare part or supplement to the KUKKO pulling device.

Art No.	14021176	L I←→I mm	
19-00-P	-120510	95	18-00
19-2-P	-170041	100	18-2
19-3-P	-170126	100	18-3, 18-3-B
19-4-P	-168321	200	18-4, 18-4-B
19-5-P	-152306	200	18-5, 18-5-B
19-1-P	-169984	100	18-0, 18-1

#### Screw adapters (pair)

#### For extracting and removing parts with threads (dowel-pins, parallel-keys, bolts, etc.) for use with series 18.

Description

For removing parts with threaded holes.

Using the screw adapter in combination with a series 18 separator.

Advantage

Almost all components available as replacement parts, time-saving order process thanks to numbering system.

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Art No.	4021176			KOMEN LEASAR COMEN LEASAR	Inhalt content
18-003A	-788406	M3	M10	18-0, 18-1	Paar / pair
18-004A	-337383	M4	M10	18-0, 18-1	Paar / pair
18-005A	-337468	M5	M10	18-0, 18-1	Paar / pair
18-006A	-337536	M6	M10	18-0, 18-1	Paar / pair
18-008A	-337611	M8	M10	18-0, 18-1	Paar / pair
18-010A	-337796	M10	M10	18-0, 18-1	Paar / pair
18-012A	-337871	M12	M10	18-0, 18-1	Paar / pair
18-016A	-788574	M16	M10	18-0, 18-1	Paar / pair
18-208A	-337956	M8	M14x1,5	18-2	Paar / pair
18-210A	-338113	M10	M14x1,5	18-2	Paar / pair
18-212A	-338298	M12	M14x1,5	18-2	Paar / pair
18-214A	-338373	M14	M14x1,5	18-2	Paar / pair
18-216A	-338458	M16	M14x1,5	18-2	Paar / pair
18-218A	-338526	M18	M14x1,5	18-2	Paar / pair
18-314A	-338601	M14	M18x1,5	18-3	Paar / pair
18-316A	-338786	M16	M18x1,5	18-3	Paar / pair
18-318A	-338861	M18	M18x1,5	18-3	Paar / pair
18-320A	-338946	M20	M18x1,5	18-3	Paar / pair
18-322A	-339028	M22	M18x1,5	18-3	Paar / pair
18-324A	-339103	M24	M18x1,5	18-3	Paar / pair



\*\* \*\* \*\*

For extracting and removing parts with threads (dowel-pins, parallel-keys, bolts, etc.) for use with series 18.

Description

For removing parts with threaded holes.

Using the screw adapter in combination with a series 18 separator.

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Advantage

Almost all components available as replacement parts, time-saving order process thanks to numbering system.

Art No.	4021176			KONARM FERARK COMPANY FERARK	Inhalt content
18-0-AS	-337048	M4-M5-M6-M8-M10-M12	M10	18-0, 18-1	Satz/Set
18-2-AS	-337123	M8-M10-M12-M14-M16-M18	M14x1,5	18-2	Satz/Set
18-3-AS	-337208	M14-M16-M18-M20-M22-M24	M18x1,5	18-3	Satz/Set



03



- For removal of ball bearings of any type, which are inside a casing and on a shaft at the same time.
- To remove grooved ball bearings without causing damage and without having to dismantle the shaft.
- Non-contact, gentle removal of ball bearings, in combination with a slide hammer, if support on a shaft is not possible.

KUKKO

69-A





# Ball Bearing Removal and Fitting Kugellager Aus- & Einbau

# 04

Selection of the right bearing puller Auswahl des richtigen Lager-Abziehers	96	04
Ball bearing removal Kugellager-Ausbau	98	AV.
Ball bearing fitting Kugellager-Einbau	102	
Accessories for ball bearing removal and fitting Zubehör für den Kugellager Aus- und Einb		

# Selection of the right ball bearing extractor



The ball bearing is in a housing and on a shaft at the same time.



The ball bearing is inside a casing, but has no shaft for support.



# <u>1st step:</u> What is the ISO number of the ball bearing?





For an especially reliable fit of the ball bearing onto the shaft, we recommend our inductive ball bearing heater, T-AW.

The ball bearing is heated, mounted on the shaft, and as it cools, is firmly pressed to the shaft.







04

T

# Cross beam

Special cross-beam form ensures spread adjustment of the pulling jaws.

Adjusting Mount the jaws by turning them 90°.

> Spindle head rounding Can be used in combination with the slide hammer as a spindle top.

Magnets 4 magnets for simple grip of the counterpressure ring.

> Color coding Quick, secure selection of the pulling jaws through color coding.

Counter-pressure ring Ball bearing extraction without contact to the casing.

## PULLPO" ball bearing puller sets

To remove grooved ball bearings without causing damage and without having to dismantle the shaft.

Description

NEWC MER K-70-C PULLPO



#### Advantage Puller is self-tensioning and easy to handle.

be quickly and easily removed. Puller is self-tensioning and easy to handle.

Simple, self-explanatory use with a small number of individual components.

Special cross-beam design ensures spread adjustment of the pulling jaws.

Magnets under the cross-beam ensure simple mounting of the support rings on the ball bearing. Simple mounting of the pulling jaws with 90° rotation in the cross-beam.

Pulling jaws made of two parts. Dowel pin is hammered into the upper end of the jaw.

- The special cross-beam design ensures secure retention of the the part to be removed by the pulling jaws thanks to the spread adjuster.

With this puller, grooved ball bearings that are simultaneously located on a shaft and in a casing can

Pulling jaws specifically developed for precise mounting in bearing tracks for optimal support and better extension force.

Art No.	4021176	mm		Stück	X Stück	J×	<b>J</b> <u>Ī</u> mm	Stück pieces	
K-70-A	-058851	10 - 30	6000-6006 6200-6205 6300-6304	7	3	6	70	18	i-Boxx
К-70-В	-058868	37 - 100	6007-6020 6206-6212 6305-6311 6403-6408	7	4	8	156	21	i-Boxx
К-70-С	-019999	10 - 100	6000-6020 6200-6212 6300-6311 6403-6408	13	7	14	70 156	38	L-Boxx

#### Ball bearing puller "PULLPO"

To remove grooved ball bearings without causing damage and without having to dismantle the shaft.

E:

- Description
- Special cross-beam design ensures spread adjustment of the pulling jaws.
- Mechanical pressure spindle
- Milled thread treated with special coating.

#### Advantage

- The special cross-beam design ensures secure retention of the the part to be removed by the pulling jaws thanks to the spread adjuster.
- 4 magnets for simple grip of the counter-pressure ring.
  - Secure, form-fitting connection of the pulling jaws with the cross-beam.
- Spindle head band prevents the wrench from slipping off.
- Almost all components available as replacement parts, time-saving order process thanks to numbering system.

Art No.	<b>                                     </b>		Stück pieces
70-01	-908972	70-011, 70-012	2
70-02	-909580	70-021, 70-022	2

#### **Pulling hook sets**

70-01

To remove grooved ball bearings without causing damage and without having to dismantle the shaft.

70-02

Description

- Pulling jaws specifically developed for precise mounting in bearing tracks for optimal support and better extension force.
- Pulling jaws made of two parts. Dowel pin is hammered into the upper end of the jaw.
- The proven KUKKO claw in a newly developed, modern jaw design.
- The two pulling jaw versions are color-coded for easier distinction.
- The pulling jaws are tempered for a long service life.

#### Advantage

- Simple mounting of the pulling jaws with 90° rotation in the cross-beam.
- Only two pulling jaw types required.
- Machined, lateral jaw surfaces ensure optimal jaw alignment with the cross-beam.
- Secure, form-fitting connection of the pulling jaws with the cross-beam.

Art No.	4021176		J×	J <u>Ī</u> mm	X Stück
70-011	-909184	6000-6004; 6200-6202; 6301	3	70	3
70-012	-909368	6005-6006; 6203-6205; 6300; 6302-6304	3	70	6
70-021	-909597	6007-6013; 6206; 6210; 6211; 6306; 6307	4	156	5
70-022	-909603	6014-6020; 6207-6209; 6212; 6305; 6308-6311; 6403-6408	4	156	7



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A world in motion since 1919

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# Ball bearing extractor sets for deep-groove ball bearings

To remove grooved ball bearings without causing damage and without having to dismantle the shaft.

Description

- With these pulling devices, grooved ball bearings that are located in the same casing and on one shaft can be quickly and easily removed.
- Quick and secure selection thanks to markings on the pulling hooks.
- Ball bearing puller
- Pulling hook sets
- Support rings

#### Advantage

- Pulling hook developed specifically for precise installation in the bearing's tracks for ideal level of support and better extension force.
- Spindle head band prevents the wrench from slipping off.
- Almost all components available as replacement parts, time-saving order process thanks to numbering system.
- Practical package for universal use.
- Complete easy-to-manage package.



#### Ball bearing extractors and pulling arm sets

To remove grooved ball bearings without causing damage and without having to dismantle the shaft.

- Description 70-4 70-4730
  - Mechanical pressure screw. Milled thread treated with special coating.
  - Pulling hooks.

#### Advantage

- Pulling hook developed specifically for precise installation in the bearing's tracks for ideal level of support and better extension force.
- Quick and secure selection thanks to markings on the pulling hooks.
- Almost all components available as replacement parts, time-saving order process thanks to numbering system.

Art No.	4021176		) mm	× Stück	COMBINEESSAR
70-4	-316418	6014-6020 6213-6222 6312-6317 6410-6415	-	-	70-4730, 70-4731, 70-4733, 70-4734
70-4730	-320453	6014–6017	217	4	70-4
70-4731	-320521	6018–6020; 6213–6213	217	6	70-4
70-4733	-320781	6216–6222; 6312–6317; 6410–6415	290	19	70-4
70-4734	-320606	6021; 6409	290	1	70-4

#### **Ball bearing extractor sets "Universal**

For removing grooved ball bearings without having to dismantle the shaft.







Description

- With these pulling devices, ball bearings of all types that are located in the same time in a casing and on a shaft can be quickly and easily removed. To this end, the ball bearing cage must be destroyed.
- Quick and secure selection thanks to markings on the bearing adapters.
- Mechanical pressure screw.
- Milled thread treated with special coating.
- Instructions and conversion table in the cover.

- The tight fit of the bearing adapter facilitates secure removal by placing an even load on the inner and outer bearing rings.
- Practical package for universal use.
- Complete easy-to-manage package.
- Almost all components available as replacement parts, time-saving order process thanks to numbering system.

Art No.	4021176	mm		Stück pieces	
69-A	-781391	20 - 110	6004–6013; 6201–6206; 6300–6305	7	L-Boxx MINI
69-B	-781476	40 - 110	6011–6020; 6206–6212; 6305–6309; 6403–6407	7	L-Boxx MINI
69-C	-781544	56 - 240	6021–6032; 6213–6230; 6310–6321; 6406–6417	10	L-Boxx

# Bearing fitting tool kit made of steel, heavy duty

For bearing installation with a hydraulic press or hammer.



#### Description

- For mobile use, we recommend Series 71-L.
  - 33 impact rings made of extra strong steel.
  - 5 strike pipes made of extra strong steel.
- 1 dead blow hammer
- Instructions and conversion table in the cover.

#### Advantage

• The combination of impact ring and impact sleeve required for the installation of the ball bearing can be found in the table inside the case cover.

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- The axes, bearing casings and gaskets of the bearing will not be damaged.
  - With the combination of the impact ring and the impact pipe, the installation forces are never directed through the rolling elements of the bearing.
- Almost all components available as replacement parts, time-saving order process thanks to numbering system.
- Complete easy-to-manage package.

Art No.		Ö	×	Ë	Ī	×	Stück pieces	
	mm	mm	Stück	mm	mm	Stück		
71	10 - 50	26 - 110	5	15; 20; 30; 40; 55	225	33	39	L-Boxx

#### Bearing fitting tool kit made of steel, heavy duty

For bearing installation with a hydraulic press.



#### Description

- 15 impact rings made of extra strong steel.
- 3 strike pipes made of extra strong steel.
- For mobile use, we recommend Series 71-L.
- Instructions and conversion table in the cover.
- Secure storage in special foam.

#### Advantage

- The combination of impact ring and impact sleeve required for the installation of the ball bearing can be found in the table inside the case cover.
- The axes, bearing casings and gaskets of the bearing will not be damaged.
- With the combination of the impact ring and the impact pipe, the installation forces are never directed through the rolling elements of the bearing.
- Complete easy-to-manage package.



# Bearing fitting tool kit, light outdoor installation set

For quick, precise and secure installation of bearings and seals.





#### Description

- 33 impact rings made of extremely shockproof plastic
- 3 strike pipes made of anodized aluminum
- 1 dead blow hammer
- Instructions and conversion table in the cover.
  - Secure storage in special foam.

- The combination of impact ring and impact sleeve required for the installation of the ball bearing can be found in the table inside the case cover.
- The axes, bearing casings and gaskets of the bearing will not be damaged.
- The impact rings have a rubber ring and ensure locking at the strike pipe.
- With the combination of the impact ring and the impact pipe, the installation forces are never directed through the rolling elements of the bearing.
- Almost all components available as replacement parts, time-saving order process thanks to numbering system.

Art No.	mm	mm	x Stück	☐ mm	<u>]</u> mm	× Stück	Stück pieces	
71-L	10 - 50	26 - 110	3	19, 32, 50	220	33	37	L-Boxx

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mm

5 - 32

#### Steering head bearing fitting tool kit

For installation of steering head bearings on motorcycles





Set	is s	uitabl	e for	all	motorc

- ycles. The following are also included in the set: 1 sealing grip device for hoses.
- Specifically intended for the replacement of the steering head bearing.
- Instructions and conversion table in the cover.
- Secure storage in special foam.

#### Advantage

Description

- The special shape of the impact ring allows for the power to be transmitted only to the internal ring during pressing or hammering of the tapered roller bearing.
- This means that the bearing cage will not be destroyed.
- The combination of impact ring and impact sleeve required for the installation of the ball bearing can be found in the table inside the case cover.
- The axes, bearing casings and gaskets of the bearing will not be damaged.
- The impact rings have a rubber ring and ensure locking at the strike pipes.

Art No.	4021176		X	Ö		×	04
		mm	Stück	mm	mm	Stück	
71-M	-772788	25 - 35	1	32	360	4	

#### Pulling chuck for deep groove bearing inner races

For pulling separable bearing inner races with a diameter of 5-32 mm on magnets, light machines, electric motors and small electrical machinery.



#### Seal disassembly tools

222-S

Seal extractor for oil seals, axial shaft seals, sealing sleeves and other bearing seals.

Description

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- Slide hammer with 2K Powergrip.
- Milled thread treated with special coating.
- Depending on space, the removal process can be performed with the 222-U universal release lever. •

#### Advantage

- Quick and easy to use due to 2K-Powergrip
- The slide hammer can be combined with internal extractors and KUKKO screw adapters.

Art No.		L I←→I mm	mm
222-U	-777790	300	-
222-S	-018497	430	230

#### Seal pulling set (radial shaft seal) in case

For the extraction of radial shaft seal, oil seals, sealing sleeves, seals, bearing seals and shaft gaskets.

222-U



lescr	int	:	

- Instructions on the cover.
- Secure storage in special foam.

- Practical package for universal use.
- Almost all components available as replacement parts, time-saving order process thanks to numbering system.
- Complete easy-to-manage package.
- KUKKO-L-Boxx-System compatible with systems by all common manufacturers.

Art No.	4021176		Stück pieces	
K-222-1/7	-222757	222-100, 222-1, 222-U	7	L-Boxx

#### Circlip pliers, external For assembling circlips on shafts.



#### Description

.

Body of pliers and tips: Chrome vanadium steel, forged, oil-hardened. Non-slip, stable tips.

- Powerful design, forged.

#### Advantage

- Work comfortably in hard-to-reach places.
- Unimpeded view of work peaks. .
- Easy access to covered retaining rings.

Art No.	4021176	Ö mm	L  ←→  mm		
728T-A0	-139567	3 - 10	135	x	-
728T-A1	-790546	10 - 25	135	х	-
728T-A2	-790560	19 - 60	180	х	-
728T-A3	-545764	40 - 100	225	x	-
728T-A4	-790591	85 - 140	320	х	-
728T-A01	-545757	3 - 10	135	-	х
728T-A11	-790553	10 - 25	135	-	x
728T-A21	-790577	19 - 60	180	-	x
728T-A31	-790584	40 - 100	225	-	x
728T-A41	-545771	85 - 140	320	-	x

# **Circlip pliers, internal**





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# Description Body of pliers and tips: Chrome vanadium steel, forged, oil-hardened. Non-slip, stable tips. Powerful design, forged.

#### Advantage

. •

- Work comfortably in hard-to-reach places.
- Unimpeded view of work peaks. .
- . Easy access to covered retaining rings.

Art No.	4021176	С mm	L ∣←→∣ mm	K	
729T-J0	-139574	3 - 10	135	x	-
729T-J1	-545788	10 - 25	135	x	-
729T-J2	-545801	19 - 60	180	x	-
729T-J3	-545825	40 - 100	225	x	-
729T-J4	-545726	85 - 140	320	x	-
729T-J01	-139581	3 - 10	135	-	x
729T-J11	-545795	10 - 25	135	-	x
729T-J21	-545818	19 - 60	180	-	x
729T-J31	-545832	40 - 100	225	-	х
729T-J41	-545849	85 - 140	320	-	x

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## Circlip pliers service set

For fitting circlips on shafts and into bores.



•

Clean and convenient storage in the plastic case.									
Art No.	4021176	Ö	C) mm				Stück pieces		
728T729	-647734	10 - 60	10 - 60	x	x	728T-A1, 728T-A2, 728T-A11, 728T-A21, 729T-J1, 729T-J2, 729T-J21, 729T-J21	8	Kunst- stoff / Plastic	0 1

#### Inductive heater

For universal use when heating bearings and other rotationally symmetrical workpieces.



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Description

Advantage

.

Non-slip, stable tips. Powerful design, forged.

Secure storage in special foam.

Work comfortably in hard-to-reach places. Unimpeded view of work peaks. Easy access to covered retaining rings.

- Quick, even and continuous heating of the workpiece.
- The bearings can be pulled vertically across the yoke (normal heating process).

Body of pliers and tips: Chrome vanadium steel, forged, oil-hardened.

- Turbo boost: double-quick heating process; the bearing is placed horizontally on the block.
- Individual settings provided by temperature and time programming.

- Bearings are easier to mount if pre-heated.
- Only the workpiece is heated up.
- Always fits due to various yokes.

	The temperature can be monitored at all times with the integrated display.									
	Art No.	4021176		Ô			4			
			mm	mm	kg	°C	Volt			
a∎ ××	T-AW-20	-830976	20, 35, 60	215, 225, 290	15-40	0-240	110-230 V AC - 16 A - 50 Hz			
	T-AW-40	-831133	15, 20, 35, 60, 70	330, 345, 355, 360, 410	5-70	0-240	110-230 V AC - 16 A - 50 Hz			





The KUKKO 800 modular system is a pull-apart system, which consists of single parts that can be put together individually from finished pullers or complete sets.

# ONE for ALL

All pullers have the same hydraulic spindle and consist of easily exchangeable single parts that can be combined in many different ways.

# High pull-off force

The short KUKKO hydraulic spindle means that little manual effort is required for maximum pulling performance. No additional drive tools are needed.

# Wersatility

The modular system allows for a large number of different pulling options.



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Modular system 800 Baukasten-System 800	110
Series 800 Baureihe 800	
Accessoires series 800 Zubehör Baureihe 800	
Series 13 Baureihe 13	



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#### The KUKKO 800 modular system is a pull-apart system, which consists of single parts that can be put together individually from finished pullers or complete sets.

#### **ONE for ALL**

All pullers have the same hydraulic spindle and consist of easily exchangeable single parts that can be combined in many different ways.

#### **High pull-off force**

The short KUKKO hydraulic spindle means that little manual effort is required for maximum pulling performance. No additional drive tools are needed.

#### Versatility

The modular system allows for a large number of different pulling options.

- All pulling tools in the 800 modular system only require one drive unit the compact high performance spindle 800 or 801.
   With its favorable installation dimensions, it has frequently proven itself in toolmaking and many other areas as a force-generating component and problem solver.
   The low-maintenance original KUKKO construction with the air trapping and slippage-free hydraulic system guarantees reliable use and and high
- performance.
- Complete hydraulic pullers, individual parts and pre-assembled sets are available, from which a variety of pulling tools can be put together.
- The pullers, separators or internal extractors can be combined and used for all types of extraction jobs in the industrial and automotive sector.




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Assembly of the hydraulic puller









Universal 2-jaw puller with short hydraulic spindle and self-centering jaws









Universal 3-jaw puller with short hydraulic spindle and self-centering jaws











## COMBINATION Kombination















818-0+

818-021

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A world in motion since 1919

KUKKO tool factory Series 800



## Universal 2-jaw puller with short hydraulic spindle and self-centering jaws

For pulling particularly tight bearings, gears, discs, etc.



• • •	Piston fu Spindle	inctions on the axis extensions enable th Il components availabl	and does not to ne unit to be ac	urn in the hydr ljusted quickly	to a range of d		
	Art No.	4021176i	mm		max.	₩ max. Nm	mit with
844	4-1-B	-031601	50 - 100	100	10	40	800
844	4-2-B	-031946	75 - 150	150	10	40	800
844	4-3-B	-032448	75 - 150	250	10	40	800

200

250

10

10

If there is adequate free space around the part to be removed, we recommend a 3-jaw puller series

Easy-to-replace individual components that can be combined in a number of different ways.

Available as complete hydraulic pullers, individual parts and sets. Little force required for a strong pulling performance.

100 - 200

130 - 250

Universal 3-jaw puller with short hydraulic spindle and self-centering jaws
---

8-HP-100

For pulling particularly tight bearings, gears, discs, etc.

844



#### Description

844-4-B

844-5-B

Description

Advantage

845 for optimal force distribution. Series is built on a modular system. Pullers have the same hydraulic spindle.

Standard pulling hook.

Series is built on a modular system.

-076091

-032776

- Pullers have the same hydraulic spindle.
- Easy-to-replace individual components that can be combined in a number of different ways. Standard pulling hook.
- Two-arm design for space-saving operation.

Series is built on a modular system. Pullers have the same hydraulic spindle.

4021176

-031458

-033018

-135651

-075919

-031861

-032363

-032103

-032691

#### Advantage

Description

Advantage

Art.-

No.

844-000

844-250

844-251

- Available as complete hydraulic pullers, individual parts and sets.
- Little force required for a strong pulling performance.
- Piston functions on the axis and does not turn in the hydraulic spindle.
- Spindle extensions enable the unit to be adjusted quickly to a range of different requirements.
- Almost all components available as replacement parts, time-saving order process thanks to numbering system.

Art No.	4021176	<b>T</b>		max.	₩ max.	mit with
		mm	mm	t	Nm	
845-1-B	-033278	50 - 100	100	10	40	800
845-2-B	-033438	75 - 150	150	10	40	800
845-3-B	-033681	75 - 150	250	10	40	800
845-4-B	-033841	100 - 200	200	10	40	800
845-5-B	-034008	130 - 250	250	10	40	800

Easy-to-replace individual components that can be combined in a number of different ways.

Available as complete hydraulic pullers, individual parts and sets. Little force required for a strong pulling performance.

Bezeichnung

description

Traverse / Cross-beam

Traverse / Cross-beam

Gewindebuchse /

Thread sleeve

Abzughaken / Jaw: 100 mm

Abzughaken / Jaw: 150 mm

Abzughaken / Jaw: 250 mm

Abzughaken / Jaw: 200 mm

Abzughaken / Jaw: 250 mm

#### Spare parts for assembly 844/845









845-000
844-020
844-100
844-150
844-200

ST

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800

800

ST

844-1-B, 844-2-B, 844-3-B, 844-4-B, 844-5-B

845-1-B, 845-2-B, 845-3-B, 845-4-B, 845-5-B

844-1-B, 844-2-B, 844-3-B, 844-4-B, 844-5-B,

845-1-B, 845-2-B, 845-3-B, 845-4-B, 845-5-B

844-1-B, 845-1-B

844-2-B, 845-2-B

844-4-B, 845-4-B

844-3-B, 845-3-B

844-5-B, 845-5-B

#### Hydraulic "4 Puller" - Set with self-centering pulling jaws

#### Description

- Series is built on a modular system.

  - Pullers have the same hydraulic spindle. Milled thread treated with special coating.
  - Standard pulling hook.
- 2-jaw and 3-jaw combination cross beam

#### Advantage

- Little force required for a strong pulling performance.
- Piston functions on the axis and does not turn in the hydraulic spindle.
- Spindle extensions enable the unit to be adjusted quickly to a range of different requirements.
- Available as complete hydraulic pullers, individual parts and sets.
- Almost all components available as replacement parts, time-saving order process thanks to numbering system.

hydraulic	

Art No.	4021176	mm	mm T	max. t	Stück pieces	
845-150	-717871	50 - 150	150	10	11	L-Boxx

#### Hydraulic "6 Pullers" - Set with self-centering pulling jaws

For removing bearings, gears, discs, etc.

For removing bearings, gears, discs, etc.

#### Description

- Series is built on a modular system.
- Pullers have the same hydraulic spindle.
- Milled thread treated with special coating.
- Standard pulling hook.
- 2-jaw and 3-jaw combination cross beam

## Advantage

- Little force required for a strong pulling performance.
- Piston functions on the axis and does not turn in the hydraulic spindle.
- Spindle extensions enable the unit to be adjusted quickly to a range of different requirements.
- Available as complete hydraulic pullers, individual parts and sets.
- Almost all components available as replacement parts, time-saving order process thanks to numbering system.

Art No.	4021176	<b>t</b> in mm	<b>أ</b> mm	max. t	Stück pieces	
845-250	-717956	75 - 250	250	10	15	L-Boxx

#### Hydraulic "10 Pullers" - Set with self-centering pulling jaws

For removing bearings, gears, discs, etc.



#### Description

- Series is built on a modular system.
- Pullers have the same hydraulic spindle.
- Milled thread treated with special coating.
- Standard pulling hook.
- Flexibility assured thanks to two-arm or three-arm design.

#### Advantage

- Little force required for a strong pulling performance. Piston functions on the axis and does not turn in the hydraulic spindle.
- Spindle extensions enable the unit to be adjusted quickly to a range of different requirements.
- Available as complete hydraulic pullers, individual parts and sets.
- Almost all components available as replacement parts, time-saving order process thanks to numbering system.

Art No.	4021176	mm t	mm T	max. t	Stück pieces	
845-851	-172854	50 - 250	250	10	21	Tanos Systainer

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## Universal hydraulic puller set with separator







Almo	olete hydrau	ilic pullers, i	ndividual par cement parts	ts and sets.		•	to numbe
Art	rth (		₽₽₽₽		max.	Stück	

Piston functions on the axis and does not turn in the hydraulic spindle.

Flexibility assured thanks to two-arm or three-arm design.

Little force required for a strong pulling performance.

Art No.	4021176	<b>m</b> m	<b>أ</b> mm	<b>₩</b> ₩ mm	<b>₽</b> mm	max. t	Stück pieces	
845-855	-172939	50 - 250	250	280 - 780	25 - 155	10	29	Tanos Systainer

Spindle extensions enable the unit to be adjusted quickly to a range of different requirements.

#### Pulling device with hydraulic screw

For universal application with pullers from series 800.



Desc	cription
•	Series is built on a modular system.

Description

Advantage

Pullers have the same hydraulic spindle.

Series is built on a modular system. Pullers have the same hydraulic spindle. Milled thread treated with special coating.

Standard pulling hook.

- Easy-to-replace individual components that can be combined in a number of different ways.
- Hydraulic spindle.
- Milled thread treated with special coating.

#### Advantage

Available as complete hydraulic pullers, individual parts and sets.

- Little force required for a strong pulling performance.
- Piston functions on the axis and does not turn in the hydraulic spindle.
- Spindle extensions enable the unit to be adjusted quickly to a range of different requirements.
- Almost all components available as replacement parts, time-saving order process thanks to numbering system.

Art No.	4021176	<b>†††</b>	† <b>††</b>	max.	max.	mit witł
818-0	-173196	mm 280	mm 240	t 10	Nm 40	800

#### **Internal extractors**

For extracting inner bearings, bearing outer rings and bushings.



D	escription
	Sorios

Series is built on a modular system.

#### Advantage

Almost all components available as replacement parts, time-saving order process thanks to numbering system.

Art No.	4021176	Ø		
		mm		
818-021	-757969	30-180	818-0	

ST

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#### Hydraulic bearing puller set

#### For removing ball bearings, roller bearings, inner races and other tight parts if there is not enough space to use pulling hooks.

Description

- Series is built on a modular system.
  - Pullers have the same hydraulic spindle.
  - Milled thread treated with special coating
- Easy-to-replace individual components that can be combined in a number of different ways.
- Instructions on the cover.

#### Advantage

- Little force required for a strong pulling performance.
- Piston functions on the axis and does not turn in the hydraulic spindle.
- Spindle extensions enable the unit to be adjusted quickly to a range of different requirements.
- Available as complete hydraulic pullers, individual parts and sets.
- Complete easy-to-manage package.

Art No.	4021176	<b>†††</b> † mm	mm	max. t		Stück pieces
818-100	-717611	280 - 530	22 - 115	10	L-Boxx	10

#### Hydraulic bearing puller set

hydraulic

For removing ball bearings, roller bearings, inner races and other tight parts if there is not enough space to use pulling hooks.

- Description
  - Series is built on a modular system.
  - Pullers have the same hydraulic spindle.
  - Milled thread treated with special coating.
  - Easy-to-replace individual components that can be combined in a number of different ways.
  - Instructions on the cover.

#### Advantage

- Little force required for a strong pulling performance.
- Piston functions on the axis and does not turn in the hydraulic spindle.
- Spindle extensions enable the unit to be adjusted quickly to a range of different requirements.
- Available as complete hydraulic pullers, individual parts and sets.
- Complete easy-to-manage package.

Art No.	4021176	<b>†††</b> mm	mm	max. t	Stück pieces	
818-150	-717796	280 - 780	25 - 155	10	12	L-Boxx

#### Hydraulic bearing puller and extractor set

hydraulic

For extraction and internal extraction of ball bearings, roller bearings, inner races and other tight-fitting parts if there is not enough space to use pulling hooks.

Description

- Series is built on a modular system.
- Pullers have the same hydraulic spindle.
- Milled thread treated with special coating.
- Easy-to-replace individual components that can be combined in a number of different ways.
  - Secure storage in special foam.

#### Advantage

- Little force required for a strong pulling performance.
- Piston functions on the axis and does not turn in the hydraulic spindle.
- Spindle extensions enable the unit to be adjusted quickly to a range of different requirements.
- Available as complete hydraulic pullers, individual parts and sets.
- Complete easy-to-manage package.



	rt Io.	4021176	<b>₩</b>	mm	mm	max. t	Stück pieces	
818-	215	-173271	280 - 780	25 - 155	30 - 180	10	16	Tanos Systainer



## Universal hydraulic puller and extractor set with self-centering jaws with separator

#### For removal, separation and internal extraction of bearings, gears, discs, etc.

#### Description

- Series is built on a modular system.
  - Pullers have the same hydraulic spindle.
  - Milled thread treated with special coating.
- Standard pulling hook.
- Flexibility assured thanks to two-arm or three-arm design.

#### Advantage

- Little force required for a strong pulling performance.
- Piston functions on the axis and does not turn in the hydraulic spindle.
- Spindle extensions enable the unit to be adjusted quickly to a range of different requirements.
- Available as complete hydraulic pullers, individual parts and sets.
- Almost all components available as replacement parts, time-saving order process thanks to numbering system.

Art No.	4021176	mm mm	<b>أ أ</b>	<b>₩</b> mm	mm	mm	max. t	Stück pieces	Ċ
845-858	-173011	50 - 250	250	280 - 780	25 - 155	30 - 180	10	30	Tanos Systainer

#### 2-jaw puller with short hydraulic spindle

For removing particularly tight gears, sprockets, ball bearings, etc.

AUTOGRP hydraulic



#### Description

- Grease hydraulics.
- Standard pulling hook.
- Parallel pulling hooks in every position, even with full load. Pulling hooks with infinitely variable adjustment on the cross-beam.
- Short hydraulic spindle
- Advantage
  Little force required for a strong pulling performance.
- Piston functions on the axis and does not turn in the hydraulic spindle.
- Turning the pulling hooks enables them to be used both internally and externally.
- Suitable for pulling asymmetric workpieces.
- Spindle extensions enable the unit to be adjusted quickly to a range of different requirements.

Art No.	<b> </b>	<b>اللہ</b> mm	mm Į	max. t	mit with
20-3-H	-786839	250	200	10	800
20-30-H	-786914	350	200	10	800

#### 2-jaw puller with short hydraulic spindle

For removing bearings, gears, discs, etc.



Description	
-------------	--

- Standard pulling hook.
- Pulling hooks with infinitely variable adjustment on the cross-beam.
- Two-arm design for space-saving operation.
- Parallel pulling hooks in every position, even with full load.
- Hydraulic spindle.

#### Advantage

- Turning the pulling hooks enables them to be used both internally and externally.
- Available as complete hydraulic pullers, individual parts and sets.
- Little force required for a strong pulling performance.
  - Piston functions on the axis and does not turn in the hydraulic spindle.
- Spindle extensions enable the unit to be adjusted quickly to a range of different requirements.

Art No.	4021176	<b>t</b> mm	mm	max. t	ਜੂ max. Nm	mit with
820-0	-173684	225	225	10	40	800

ST

#### Universal press frame for silent bushings

For replacing bearings on front and rear axles without dismantling the axle, e.g. silent bearings, hydraulic supports, plastic bearings, supporting joints, absorber rubber.
Description

Advantage

•

Series is built on a modular system.

Milled thread treated with special coating.

Grease hydraulics. Hydraulic spindle.

hydraulic

11101



Art No.	4021176	max. t	mit with
880-801	-433696	15	801
880-800	-433689	10	800
880-802	-433702	20	802

ntage Pressure pad sets available for a variety of vehicle types. Little force required for a strong pulling performance. Piston functions on the axis and does not turn in the hydraulic spindle. Spindle extensions enable the unit to be adjusted quickly to a range of different requirements. Spindle head band prevents the wrench from slipping off.

Easy-to-replace individual components that can be combined in a number of different ways.



#### Short hydraulic spindles For pulling particularly tight bearings, gears, discs, etc. Description Series is built on a modular system. Pullers have the same hydraulic spindle. Easy-to-replace individual components that can be combined in a number of different ways. . Grease hydraulics. Hydraulic spindle. • Advantage Available as complete hydraulic pullers, individual parts and sets. . Little force required for a strong pulling performance.

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Description

Advantage

ring system.

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Mechanical pressure screw.

Milled thread treated with special coating.

Piston functions on the axis and does not turn in the hydraulic spindle.

Spindle extensions enable the unit to be adjusted quickly to a range of different requirements.

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Spindle head band prevents the wrench from slipping off.





801

802 804

Art No.	4021176				max.	
			mm	mm	t	
800	-034343	W 1.1/2"-16(55°;16Gang)	10	13	10	
801	-784446	W 1.1/2"-16(55°;16Gang)	10	19	15	
802	-784514	M40x1,5	10	19	20	
804	-456787	W 1.1/2"-16(55°;16Gang)	10	19	15	
800-ERS	-244483	Verschleißteilsatz / Wearing parts set				
801-ERS	-788086	Verschleißteilsatz / Wearing parts set				
802-ERS	-788246	Verschleißte	eilsatz / We	aring parts	set	

Spindle extension

800

Art No.	4021176	⊢ <b>L</b> mm	
800-050	-031113	50	818-0 820-0, 844, 845
800-100	-031298	100	818-0 820-0, 844, 845
800-150	-031373	150	818-0 820-0, 844, 845

#### Mechanical pressure screw

For pulling particularly tight bearings, gears, discs, etc.



Art No.	4021176		
800-626	-969980	1.1/2"-16	818-0, 820-0, 844-000, 845-000

Can be combined with various mechanical pulling devices from the KUKKO range.

Almost all components available as replacement parts, time-saving order process thanks to numbe-

Pulling for particularly tight parts thanks to transfer of force.

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max.

max.

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#### Pulling bolts and extensions



Art No.	<b>                                    </b>	<mark>L</mark> mm	
818-250	-173356	250	818-0
818-280	-173431	250	818-0

Almost all components available as replacement parts, time-saving order process thanks to numbe-

Mechanical pressure screws





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.

Description

- Easy and even pulling for particularly tight parts thanks to transfer of force.
- Can be combined with various mechanical pulling devices from the KUKKO range.
- Almost all components available as replacement parts, time-saving order process thanks to numbering system.



Mechanical pressure screw.

Milled thread treated with special coating.

Advantage

ring system.

•

## Series 13

#### Long hydraulic spindles with handle

#### For use with pulling devices series 844, series 845 and series 13-HP

#### Description

- Series is built on a modular system.
- With the new KUKKO hydraulic spindles, it is now even easier to generate high pulling forces without having to apply a great deal of force.
- Three extension parts are included in the scope of delivery.
- Hydraulic spindle.

#### Advantage

- Clear reduction of dismantling times thanks to simple and fast handling.
- The hydraulic spindle can be combined with a number of pullers from the KUKKO range.
- No additional oil pumps required as the system is closed.
- Hydraulic spindle is protected by an overloading valve.
- The pump's lever arm can be rotated by 360°.

Art No.	4021176	mm		₩ mm	max. t	
8-HP-100	-101281	80	W 1.1/2"-16	135	10	818-0, 818-100, 818-150, 818-215, 820-0, 845-150, 845-250, 845-851, 845-855, 845-858, 880-801, 844-1-B, 844-2-B, 844-3-B, 844-4-B, 844-5-B, 845-1-B, 845-2-B, 845-3-B, 845-4-B, 845-5-B, 880-800, 880-802, 13-HP-100, 13-HP-180, 13-ME-180

#### 3-jaw bearing puller with self-centering pulling hook and long hydraulic spindle (with handle)

For pulling particularly tight ball bearings, roller bearings, etc.



#### Description

- Series is built on a modular system.
- With the new KUKKO hydraulic spindles, it is now even easier to generate high pulling forces without having to apply a great deal of force.
- Three extension parts are included in the scope of delivery.
- Standard pulling hook.
- Hydraulic spindle.

#### Advantage

- Clear reduction of dismantling times thanks to simple and fast handling.
- The hydraulic spindle can be combined with a number of pullers from the KUKKO range.
- No additional oil pumps required as the system is closed.
- Hydraulic spindle is protected by an overloading valve.
- The pump's lever arm can be rotated by 360°.

Art No.	4021176	mm	mm mm	max. t	mit with
13-HP-100	-101236	130 - 250	250	10	8-HP-100

#### ST

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#### Pulling device with hydraulic spindle (with handle)

#### For gentle pulling for spherical roller bearings and angular roller bearings.



ring syst	em.				
Art No.	4021176	<b>†††</b> mm	mm	max. t	CONSILIERAR CONSILIERAR CONSILIERAR
13-HP-180	-101250	245	80-280	10	13-TP-2, 13-TP-3

Advantage
Ultimate stability when pulling as the segments and pulling device are screwed firmly together. Almost all components available as replacement parts, time-saving order process thanks to numbe-

The pulling device comes complete with hydraulic spindle, 50, 100 and 150 mm extension pieces, and

#### **Pulling device**

For gentle pulling for spherical roller bearings and angular roller bearings.



## Description

Description

centring pin.

Comes with mechanical pressure spindle and centring piece.

ensure that the force is applied evenly.

#### Advantage

Advantage

Ultimate stability when pulling as the segments and pulling device are screwed firmly together. . Almost all components available as replacement parts, time-saving order process thanks to numbering system.

Art No.	4021176				
		mm	mm	mm	
13-ME-180	-101922	245	80-280	24	13-TP-2, 13-TP-3

#### Seperators with 3 segments

For gentle pulling for spherical roller bearings and angular roller bearings.







ensure that the force is applied evenily.
The force-fit arrangement of the separators on the inner ring protect the bearing against damage
during removal; pulling forces are not transferred to the outer ring or rolling elements.
The even transfer of force on the inner race prevents the bearing ring from bending or warping when
pulling.

Segments are arranged on the inner race behind the bearing and therefore grip the entire bearing to

designed and the base designed and

Art No.	4021176	mm			Ø			Construction
13-TP-1	-101823	12 - 50	21304- 22310	C 2205- C 2210	61801- 6410	-	-	30-10
13-TP-2	-101830	25 - 100	22205- 22320	C 2205- C 2320	61805- 6320	BT2B 332759- 617335	NN 4920- NN 4120	13-HP-180, 13-ME-180
13-TP-3	-101847	50 - 160	22211- 23232	C 2211- C 3232	61811- 6232	BT2B 332759- BT2B 332758	NN 4920- NNU4132	13-HP-180, 13-ME-180



For splitting tight or over-twisted nuts without damaging the bolt thread.

No. 55-1 10-18 mm made in Germany

10-27 mm

(KUKAD)

100 Ho, 54 3 17 35 mm

ND. 54-2

СТО — вож мин

Installer

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4-10 mm



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## 06

Double-edged, mechanic nut splitters......**124** Zweischneidige, mechanische Mutternsprenger

Single-edged, mechanical nut splitters......**124** Einschneidige, mechanische Mutternsprenger

Single-edged, grease hydraulic nut splitters......**125** Einschneidige, fetthydraulische Mutternsprenger

Pump hydraulic nut splitter, in case......**125** Pumpenhydraulischer Mutternsprenger im Koffer

(M) No. 54-2

#### Double-edged, mechanic nut splitters

Double-edged models exerting twice the normal splitting force on irretrievable nuts in quality classes 5, 6 and 8.

Description

Advantage

Chisel available as a replacement part, time-saving order process thanks to numbering system.							
Art No.	4021176	<b>O</b> I↔I mm	<b>O</b> M	<b>₩</b> mm	mm		
54-2	-170614	10-27	6 - 18	14	109		
54-3	-170799	17-36	12 - 24	16	134		
54-2-M	-253041	Ersatzmeißel / Replacement chisel					
54-3-M	-253126	Ersatzmeißel / Replacement chisel					

Splitting nuts can be done without damaging the threaded bolt. The nut splitter's band provides additional support when turning the chisel back.

#### Mechanical nut splitter set

Double-edged models exerting twice the normal splitting force on irretrievable nuts in quality classes 5, 6 and 8.

Description

- For splitting nuts size 10-36 mm.
- Two hardened chisel cutting edges.

Two hardened chisel cutting edges.

One operation through double cutting action.

Turn the chisel gently back in the other direction by pull back. Gently turn the chisel in the other direction by pulling back.

- Gently turn the chisel in the other direction by pulling back.
- Set includes replacement chisel.
- Including 2 ring spanners for operating the nut splitter.

#### Advantage

- One operation through double cutting action.
- Splitting nuts can be done without damaging the threaded bolt.
- The nut splitter's band provides additional support when turning the chisel back.
- Practical package for universal use.



The nut splitter's band provides additional support when turning the chisel back.

#### Single-edged, mechanical nut splitters

For splitting tight or over-twisted nuts without damaging the bolt thread of quality grades 6.

Description

Advantage

- Hardened chisel cutting edge.
- Turn the chisel gently back in the other direction by pull back.



Pullback

Pullback



Art No.	<b>1</b> 4021176	<b>O</b> I↔I mm	<b>O</b> M	₩ mm	mm		
55-0	-019906	4-10	M2 - M6	8	58		
55-1	-020063	10-18	M6 - M12	12	80		
55-2	-020148	19-27	M12 - M18	14	105		
55-3	-020223	27-36	M18 - M24	16	125		
55-4	-020308	32-50	M22 - M33	26	203		
55-0-M	-252549	En	satzmeißel / Re	placement chi	sel		
55-1-M	-252624	En	satzmeißel / Re	placement chi	sel		
55-2-M	-252709	Ersatzmeißel / Replacement chisel					
55-3-M	-252884	Ersatzmeißel / Replacement chisel					
55-4-M	-252969	En	satzmeißel / Re	placement chi	sel		

Chisel available as a replacement part, time-saving order process thanks to numbering system.

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#### Single-edged, grease hydraulic nut splitters

For splitting particularly large tight or over-twisted nuts without damaging the bolt thread of quality grades 5, 6, 8 and 10.

#### Description

- Very sharp cutting through facet cut. •
  - Hardened chisel cutting edge.

#### Advantage

.

Due to the hydraulics, only a little force is needed.

Chisel available as a replacement part, time-saving order process thanks to numbering system.

<b>56</b> -1	
56-2	



Art No.	4021176	<b>●</b> I↔I mm	<b>O</b> M	Edelstahl / stainless steel	t ∭ mm	mm	ਰਾ max. Nm
56-1	-020483	7-24	M4 - M14	-	18	167	60
56-2	-020551	22-36	M14 - M24	-	30	249	70
56-3	-111501	27 - 46	M18 - M30	50, 70, 80	37	210	50
56-1-M	-244223	Ersatzmeißel / Replacement chisel					
56-2-M	-253386	Ersatzmeißel / Replacement chisel					
56-3-M	-111518		Ersatzı	meißel / Repl	acement ch	nisel	

#### Pump- driven hydraulic nut splitter in a case

For use in commercial vehicles, the pipe industry, tank cleaning, the petrochemical industry, steel construction, mining, etc.

- Description
- hydraulic, single-acting with spring return
- compact ergonomic construction
- Easy handling

#### Advantage

- unique slanting head for use on flat surfaces

  - faster spring removal Almost all components available as replacement parts, time-saving order process thanks to numbering system.

Art No.	4021176	<b>●</b> I↔I mm	<b>O</b> M	
Y-57-10	-123559	10-19	M6 - M12	i-Boxx
Y-57-19	-123566	19-24	M12 - M16	i-Boxx
Y-57-24	-870675	24-32	M16 - M22	L-Boxx
Y-57-32	-870682	32-41	M22 - M27	L-Boxx
Y-57-41	-870699	41-50	M27 - M33	L-Boxx
Y-57-50	-870705	50-60	M33 - M39	Metall
Y-57-60	-870712	60-75	M39 - M48	Metall
Y-5724M	-803741	Ersatzm	neißel / Replacemer	nt chisel
Y-5732M	-803826	Ersatzm	neißel / Replacemer	nt chisel
Y-5741M	-803901	Ersatzmeißel / Replacement chisel		
Y-5750M	-804083	Ersatzmeißel / Replacement chisel		
Y-5760M	-804168	Ersatzmeißel / Replacement chisel		
Y-5719M	-058738	Ersatzm	neißel / Replacemer	nt chisel
Y-5710M	-058721	Ersatzm	neißel / Replacemer	nt chisel



A hydraulic pump (YHP-320) with a hose (YF-200) is required to drive the tool. Not included in delivery.

125



Special tools for the automotive and truck sector.





# Ball joint extractors Kugelgelenk-Ausdrücker

## 07

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Splintentreiber





## Choice of the correct ball joint puller / extractor

## **1st step:** What is the installation situation?



## 2nd step: How big is the ball joint?





#### TIP: It is simplest to measure the thread on the new ball joint to be replaced.

## **<u>3rd step:</u>** Choice of the ball joint extractor type



## Ball joint puller/extractor





#### **Ball joint extractor**

For extracting ball pins when dismantling ball joints, track-rod ends on track rods.





ring syste	em.			
Art No.	4021176	<b>Ļ</b> mm	LH I	für for
127-2	-123290	33	58	Porsche Cayenne 03/2010<; VW Touareg 2003>; Seat Ibiza 2008>; Seat Leon 2013>
127-3	-981784	34	63	VW Touareg, Bj. 2003-2009; Mercedes Sprinter; VW-LT 1998; Fiat Ducato 1994;
127-4	-123306	37	58	VW Touareg, ab Bj. 2010; Audi Q7 ab Bj. 2007;

Almost all components available as replacement parts, time-saving order process thanks to numbe-

. Made from sturdy, alloyed, hardened and tampered steel, gun-metal finished.

#### **Ball joint extractors**

For extracting ball pins when dismantling ball joints, track-rod ends on track rods.

Description

Description

Advantage

Made from sturdy, alloyed, hardened and tampered steel, galvanized.

Milled thread treated with special coating.

Milled thread treated with special coating.

#### Advantage

Almost all components available as replacement parts, time-saving order process thanks to numbering system.

Art No.	4021176	<b>ل</b> mm	∟н <b>⊥</b> mm	<b>Ċ</b> ⊡w mm	∣ mm
128-1	-024108	18	38	36	17
128-2	-024283	23	48	45	17
128-3	-024368	29	60	60	19

#### **Ball joint extractor**

For extracting ball pins when dismantling ball joints, track-rod ends on track rods.

Description

. Made from sturdy, alloyed, hardened and tampered steel, galvanized.

Milled thread treated with special coating.



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Almost all components available as replacement parts, time-saving order process thanks to numbering system.



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Art No.	4021176	<b>ل</b> mm	∟н <b>∐</b> mm	<b>Ċ</b> ⊡w mm	 mm
128-4	-024443	40	106	76	24
128-5	-024511	46	106	76	24

## Universal KUKKO system for ball joint repairs

For assembly and disassembly of ball joints on the T4.



#### Description

The tool was specifically developed for uses on the VW T4.

- Two additional insertion plates of 40 mm and 46 mm are included.
- For installation and removal of ball joints.

Advantage

Saves a lot of time when replacing suspension joints.

Art No.	<b>₩₩₩₩₩₩</b> ₩₩₩	<b>Ļ</b> mm	⊔H <b>∐</b> mm		 ↓→  mm	für for
128-T-4	-018022	40 - 46	80	60	24	VW T4

ST

## Adjustable ball joint extractors lever type for passenger-cars

## For extracting ball pins when dismantling ball joints, track-rod ends on track rods, for passenger cars and light delivery vehicles.

Description

- Made from sturdy, alloyed, hardened and tampered steel, galvanized.
- Milled thread treated with special coating.

#### Advantage

Clamping width can be increased by simple conversion.

Almost all components available as replacement parts, time-saving order process thanks to numbering system.



Art No.	4021176	Г. mm	t <b>ar</b>	für for
129-0	-410536	20	50	universal
129-0-25	-989667	25	50	VAG, Universal, kleinere Modelle
129-0-29	-989674	29,5	50	Polo (02), Golf (04/05), Caddy, A 2 (01), A 6(98), A 8 (94), Passat (06), TT (99), Touran (04), LT (97)u.a.
129-0-DC-1	-923920	20	50	Mercedes C, E
129-0-DC-2	-923647	20	50	Smart

#### Universal adjustable ball joints extractors

For extracting ball pins when dismantling ball joints, track-rod ends on track rods, in passenger vehicles.

Description

- Made from sturdy, alloyed, hardened and tampered steel, galvanized.
- Milled thread treated with special coating.
- Advantage

.

Clamping width can be increased with simple 3-level conversion.

Almost all components available as replacement parts, time-saving order process thanks to numbering system.

Art No.	4021176	Ð		für for
		mm	mm	
129-25	-967924	19	24 -30 40 - 45	universal

#### Fork separators

To loosen ball bearing joints wedged into the cone seat, for loosening steering column levers, for disassembly of shock absorbers and for other separation projects of all kinds.
Description
Made from sturdy, alloyed, hardened and tampered steel, galvanized.

Universal application.

Advantage





Art No.	4021176	۲. mm
135-1	-024856	18
135-2	-024931	23
135-3	-025013	29
135-4	-025198	39
135-5	-220531	45



ST

## Adjustable ball joint extractors lever type for passenger cars and light commercial vehicles

For extracting ball pins when dismantling ball joints, track-rod ends on track rods, for passenger cars and light delivery vehicles.

Description

- Made from sturdy, alloyed, hardened and tampered steel, galvanized.
- Milled thread treated with special coating.

Milled thread treated with special coating.

Universal application thanks to three jaw widths.

#### Advantage

Continuously adjustable clamping widths.

Almost all components available as replacement parts, time-saving order process thanks to numbering system.

ST

ST

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Art No.		۲ mm	t 🕽	für for
129-1	-024696	18-22	50	universal
129-1-B-1	-923654	30	50	BMW

## Adjustable ball joint extractors lever type, for all passenger cars, commercial vehicles and medium-sized trucks

Advantage

For extracting ball pins when dismantling ball joints, track-rod ends on track rods, universal use for passenger cars, delivery vehicles and medium-sized commercial goods vehicles. Description



Almost a	Continuously adjustable clamping widths. Almost all components available as replacement parts, time-saving order process thanks to numbe- ring system.								
Art No.	4021176	(F)	(III)	L.	I.	für for			
		mm	mm	mm	mm				
129-2	-024771	16	22	32	70	universal			

#### Adjustable ball joint extractors lever type, special model for passenger cars with aluminium chassis

For extracting ball pins when dismantling ball joints, track-rod ends on track rods, especially for passenger cars with aluminium chassis.

Description

Made from sturdy, alloyed, hardened and tampered steel, galvanized.

Made from sturdy, alloyed, hardened and tampered steel, galvanized.

Milled thread treated with special coating.

Advantage

- Simple adjustment of clamping depths thanks to spring mechanism.
- Continuously adjustable clamping widths.
- Almost all components available as replacement parts, time-saving order process thanks to numbering system.

Art No.	4021176		H	für for
		mm	mm	
129-3-A	-803178	30	65	ALU-Fahrwerke / ALU chassis
129-3-A-32	-989681	32	65	ALU-Fahrwerke, A 8 ab 03 (hinten) ALU chassis, A 8 from 03 (back)
129-3-A-34	-989698	34	65	ALU-Fahrwerke, A 8 ab 03 (vorne) ALU chassis, A 8 from 03 (front)



Art No.	4021176	A	I.	für for
		mm	mm	
129-3-A	-803178	30	65	ALU-Fahrwerke / ALU chassis
129-3-A-32	-989681	32	65	ALU-Fahrwerke, A 8 ab 03 (hinten) ALU chassis, A 8 from 03 (back)
129-3-A-34	-989698	34	65	ALU-Fahrwerke, A 8 ab 03 (vorne) ALU chassis, A 8 from 03 (front)

## Adjustable ball joint extractors lever type, universal for medium-sized and heavy trucks, busses and construction vehicles For extracting ball pins when dismantling ball joints, track-rod ends on track rods.

Description

- Simple adjustment of clamping depths thanks to spring mechanism. Made from sturdy, alloyed, hardened and tampered steel, galvanized.
- Milled thread treated with special coating.

Advantage

- Better haptics through modern and ergonomic design.
  - Self-alignment of the opposite legs by concave pressure spindle rails.
- Thanks to the pressure spindle adapters (screw adapter), an upgrade is possible at any time with the hydraulic spindle 800 to the hydraulic socket joint ejector element.
- Continuously adjustable clamping widths.
- Little force required for a strong pulling performance.

Art No.	4021176	€ mm	: <b>F</b> mm	für for
129-3	-270949	31	70	mittlere LKW, Busse und Baufahrzeuge / medium-sized trucks, busses and construction vehicles
129-4	-271021	40	85	schwere LKW, Busse und Baufahrzeuge / heavy trucks, busses and construction vehicles

#### Ball joints extractor with short hydraulic spindle

For extracting particularly tight ball pins when dismantling ball joints, track-rod ends on track rods, for medium-sized heavy goods vehicles, buses and construction vehicles.

- Description Grease hydraulics.
- Simple adjustment of clamping depths thanks to spring mechanism.
- Hydraulic and mechanical pressure screw. Milled thread treated with special coating.
- Made from sturdy, alloyed, hardened and tampered steel, galvanized.

#### Advantage

- Little force required for a strong pulling performance.
- Piston functions on the axis and does not turn in the hydraulic spindle.
- Spindle head band prevents the wrench from slipping off.
- Almost all components available as replacement parts, time-saving order process thanks to numbering system.

	Art No.	4021176	Ð	: <b>H</b> mm	max. t	für for	mit with
1	29-3-H	-803253	31	70	10	mittlere LKW, Busse, Baufahrzeuge / medium-sized trucks, busses and construction vehicles	800
1	29-4-H	-803666	40	85	15	schwere LKW, Busse, Baufahrzeuge / heavy trucks, busses and construction vehicles	801

#### Adjustable ball joint extractors lever type for passenger-cars

hydraulic

For extracting ball pins when dismantling ball joints, track-rod ends on track rods, in passenger vehicles.



	protects sensitive surfaces and enables disassembly of the supporting rod without touching other
	axle components.
•	Simple adjustment of clamping depths thanks to spring mechanism.
•	Made from sturdy, alloyed, hardened and tampered steel, galvanized.

Tight spaces leave little room for the material-saving attachment of the extractor. The special design mbly of th

Milled thread treated with special coating.

#### Advantage

Description

Better haptics through modern and ergonomic design.

- Self-alignment of the opposite legs by concave pressure spindle rails.
- Thanks to the pressure spindle adapters (screw adapter), an upgrade is possible at any time with the hydraulic spindle 800 to the hydraulic socket joint ejector element.
- Little force required for a strong pulling performance.
- Almost all components available as replacement parts, time-saving order process thanks to numbering system.

Art No.	4021176	mm	t <b>X</b> mm	für for
129-4-30	-102653	30	70	insb. Audi R8

ST

#### Adjustable ball joint extractors for heavvy trucks

For extracting tight-fitting ball pins when dismantling ball joints, track-rod ends on track rods, for medium-sized heavy goods vehicles, buses and construction vehicles.
Description

Advantage



ring syste	em.			
Art No.	4021176	P	H	für for
		mm	mm	
129-5	-865084	36	70	mittlere und schwere LKW, Busse und Baufahrzeuge / medium-sized and heavy trucks, busses and construction vehicles

Almost all components available as replacement parts, time-saving order process thanks to numbe-

## Adjustable ball joint extractors with hydraulic ram for heavvy trucks

For extracting particularly tight-fitting ball pins when dismantling ball joints, track-rod ends on track rods, for heavy goods vehicles, buses and construction vehicles.

Description

Made from sturdy, alloyed, hardened and tampered steel, galvanized.

Made from sturdy, alloyed, hardened and tampered steel, galvanized.

Milled thread treated with special coating.

Clamping width can be increased by simple conversion.

- Grease hydraulics.
- Hydraulic spindle.
- Milled thread treated with special coating.

#### Advantage

- Little force required for a strong pulling performance.
- Piston functions on the axis and does not turn in the hydraulic spindle.
- Spindle head band prevents the wrench from slipping off.
- Almost all components available as replacement parts, time-saving order process thanks to numbering system.



Art No.	4021176	Э mm	t <b>æ</b>	für for	max. t
129-5-H	-865091	36	70	mittlere und schwere LKW, Busse und Baufahrzeuge / medium-sized and heavy trucks, busses and construction vehicles	15

## Tie and connection rod joint puller for heavy trucks

Used for extracting ball pins when dismantling ball joints on push and tie rods.

Description

- High performance is guaranteed by the extra-powerful design of the basic body and reinforced fork.
- The central spindle can be used to preload and adjust the extractor.
- Mechanical pressure screw.
- Milled thread treated with special coating.
  - Suitable for the following motor vehicle types: Mercedes Benz: ACTROS, ATEGO over 18 tonnes, SKO 405, -N,-GN (low-floor buses), MAN: F2000, TG, A 23 (low-floor articulated buses), Scania models 3 and 4, Icarus.

#### Advantage

- Depending on the positioning requirements, the mechanical drive spindle can be converted for operation from above or below.
- This extractor can be used both mechanically and with a hydraulic cylinder series 129-5-xx-H.
- Almost all components available as replacement parts, time-saving order process thanks to numbering system.

Art No.	4021176	Ð	t <b>X</b> mm	für for
129-5-45	-333316	35 - 45	120	schwere LKW's, Busse, Niederflurbusse von DAF, IVECO, MAN, Mercedes, Renault, Scania, Volvo / heavy trucks, busses, low-floor buses DAF, IVECO, MAN, Mercedes, Renault, Scania, Volvo
129-5-50	-123313	50	120	Speziell / special Liebherr LTC, LTM

ST

ST



## Tie and connecting rod joint puller with hydraulic lift cylinder

#### Used for hydraulic extraction of ball pins when dismantling ball joints on connecting and steering tie rods, especially, for trucks and low-floor buses. Description

hydraulic



ring system.	•		sreplacen		numbe
Art No.	4021176	∫⊋ mm	i <b>Ja</b> mm	für for	max. t
129-5-45-H10	-333361	35 - 45	120	schwere LKW's, Busse, Niederflurbusse von DAF, IVECO, MAN, Mercedes, Renault, Scania, Volvo / heavy trucks, busses, Iow-floor buses DAF, IVECO, MAN, Mercedes, Renault, Scania, Volvo	10
129-5-45-H20	-333422	35 - 45	120	schwere LKW's, Busse, Niederflurbusse von DAF, IVECO, MAN, Mercedes, Renault, Scania, Volvo / heavy trucks, busses, Iow-floor buses DAF, IVECO, MAN, Mercedes, Renault, Scania, Volvo	20
129-5-50-Н10	-000317	50	120	Speziell / special Liebherr LTC, LTM	10
129-5-50-Н20	-000324	50	120	Speziell / special Liebherr LTC, LTM	20

High performance is guaranteed by the extra-powerful design of the basic body and reinforced fork.

The hydraulic extractors are driven by a hydraulic cylinder, which ensures controlled and safe opera-

They use the entire performance range of the puller, well beyond the possibilities of a mechanical

Almost all components available as replacement parts, time-saving order process thanks to numbe-

The central spindle can be used to preload and adjust the extractor.

Mercedes Benz: ACTROS, ATEGO over 18 tonnes, SKO 405, -N,-GN (low-floor buses)

Suitable for the following motor vehicle types:



Hydraulic cylinder.

Advantage

tions.

pressure screw

## Tie and connecting rod joint puller with hydraulic lift cylinder

Used for hydraulic extraction of ball pins when dismantling ball joints on connecting and steering tie rods, especially, for trucks and low-floor buses.

Description

- Heavy duty version for hydraulic extraction and separation of the ball joints on the connecting rods and steering tie rods.
- The low design is especially well-suited for low-floor buses as supplied by MAN, Mercedes Benz, CITARO and others.
- High performance is guaranteed by the extra-powerful design of the basic body and reinforced fork. Hydraulic cylinder.

#### Advantage

- The hydraulic extractors are driven by a hydraulic cylinder, which ensures controlled and safe operations.
- They use the entire performance range of the puller, well beyond the possibilities of a mechanical pressure screw
- Almost all components available as replacement parts, time-saving order process thanks to numbering system.

	Art No.	4021176	Ð	t <b>æ</b> mm	für for	max. t	
12	9-36-H	-222894	36	60	schwere LKW's, Niederflur- busse, speziell MB Citaro / heavy trucks, low-flo- or especially for MB Citaro	10	129-36, YSM-100
12	9-36	-865077	Grundgerät / Basic device				





#### **Ball joint extractors**

For extracting ball pins when dismantling ball joints, track-rod ends on track rods, commercial vehicle sector.

Description

Advantage

Description

Advantage

.

Grease hydraulics. Hydraulic spindle.

ring system.

- Made from sturdy, alloyed, hardened and tampered steel, gun-metal finished.
  - Milled thread treated with special coating.

Milled thread treated with special coating.

Little force required for a strong pulling performance.

ring system.					
Art No.	4021176	Ļ	Щ <sub>±</sub>		
		mm	mm	mm	
128-G-3	-831324	30	6,5	19	
128-G-4	-831331	39	8,0	24	

Made from sturdy, alloyed, hardened and tampered steel, gun-metal finished.

Piston functions on the axis and does not turn in the hydraulic spindle. Spindle head band prevents the wrench from slipping off.

Almost all components available as replacement parts, time-saving order process thanks to numbe-

#### Hydraulic bell-shaped drop arm puller

With lubricated hydraulics.





Art No.	4021176	ф	Ē	max.	
No.	4021176	mm	mm	t	
128-G-6-H15	-341724	58	10	15	

Almost all components available as replacement parts, time-saving order process thanks to numbe-

**Ball joints extractor for trucks "Universal** 

For extracting particularly tight-fitting ball pins when dismantling ball joints, track-rod ends on track rods, for heavy goods vehicles, buses and construction vehicles.

#### Description

• To loosen ball pin joints chocked in the conical lug.

- Made from sturdy, alloyed, hardened and tampered steel, gun-metal finished.
- Milled thread treated with special coating.

#### Advantage

Universal application as the delivery scope includes three different separator jaws.

Almost all components available as replacement parts, time-saving order process thanks to numbering system.

Art	4021176	)	für	
No.		mm	for	
129-6	-971662	24 - 32 - 47	schweres Werkstattmodell	

hydraulic



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## Spreader for shock absorber mountings and steering parts

## For the safe and completely risk-free spreading of shock absorber mountings and steering parts.

Description

- Specifically suitable for carefully widening clamps on aluminium chassis.
  - For example, the spreader has a fixed hinge and is firmly attached to a control arm after installation so that the assembly and disassembly of the strut can be accomplished with no additional effort in one job step.
- It is impossible for the toll to slip thanks to the screw connection on the control arm or supporting rod.
- The design facilitates compliance with the expansion force specified by the automotive industry by means of a ball bearing mounted nut.
- Mechanical pressure screw.

#### Advantage

- In particular, for very close and difficult space conditions, the small and maneuverable tool is a problem solver in every workshop.
- The use of chisels, screwdrivers, or complicated special solutions is not necessary.

Art No.	4021176	<b>Î</b> <u>Ī</u> mm	Ċ	↓↓  mm	<b>∔</b> mm	<u>⊥</u> mm
145-2	-123337	75	M10	17	5	59,5
145-3	-001420	90	M12	19	5	71,0



-					
Pi	n	d	Т	V	e

To drive out pins and similar parts.





#### Description

- chrome-plated surface
- Specially tempered extra chrome vanadium steel ensures a long service life and reduces "mushrooming.
  - Quick determination of sizes with a color code

#### Advantage

The curved shape of the handle ensures optimal grip and prevents slippage of the tool, also ensuring particularly safe work conditions.

Art No.	4021176	d mm	∏Ì ∭ mm	L I←→I mm	∏ ⊕Ø mm	•
720-002	-103216	2	42	150	11	
720-003	-103230	3	44	150	11	
720-004	-103247	4	45	150	11	
720-005	-103254	5	48	150	11	
720-006	-103261	6	48	150	11	
720-008	-103278	8	49	150	11	

#### Pin drive set

To drive out pins and similar parts.







The set includes six pin drives with various diameters.

- chrome-plated surface
- Specially tempered extra chrome vanadium steel ensures a long service life and reduces "mushroo-
- ming.
- Quick determination of sizes with a color code

#### Advantage

- The curved shape of the handle ensures optimal grip and prevents slippage of the tool, also ensuring
  particularly safe work conditions.
- Organized storage in a practical metal case.

Art No.	4021176	, ¶Ø mm	∏ț mm	ו <b>⊥</b> וּ⊷ִדוֹן mm	_ ⊷Ø mm
720-028	-058714	2; 3; 4; 5; 6; 8	42; 44; 45; 48; 48; 49	150	11



## Workshop tool trolley, K-CubeBoxx

that can be combined with drawers for the proven KUKKO L-BOXX system.



The new KUKKO workshop car system is an ideal complement to the traditional wall panel. The stability of the trolley is due to the base frame. Additional advantages include its mobile use for repairs directly on the vehicle or using it for orderly, central storage of pulling tools in the operation. The system can be individually combined with Sortimo boxes from the KUKKO product range or from other manufacturers.



## **Description:**

- Tilt-resistant with stable design.
- Smooth and stable load castors, including two with brakes.
- Simple loading of extracts with KUKKO-L-Boxx cases.
- Fully assembled prior to delivery, including black rubber mat in the storage compartment.

## Advantage:

- Ideal work height for use in workshops and industry.
- Smooth-running extracts and self-closing mechanism for the drawers.
- KUKKO L-BOXX quickly and easily adjustable with quick locking mechanism.







Special tools for the automotive and truck sector.

- Axles
- Brakes
- Springs
- Pistons
- Steering wheel
- Hubs
- ScheibenwischerWindshield wipers





## Automotive Special Automotive Spezial

**08** 

Thread repair <b>142</b> Gewindereparatur
Tools for removal of axles <b>143</b> Werkzeuge für den Ausbau von Achsen
Tools for exhaust systems <b>146</b> Werkzeuge für Auspuffanlagen
Tools for brake systems <b>144</b> Werkzeuge für Bremsanlagen
Spring compressor <b>145</b> Federspanner
Tools for piston rings <b>146</b> Werkzeuge für Kolbenringe
Steering wheel pullers <b>147</b> Lenkradabzieher
Oil filter wrench <b>149</b> Ölfilterschlüssel
Hub and rim puller <b>150</b> Radnaben- und Felgenabzieher
Tools for exchanging wipers <b>152</b> Werkzeuge für Scheibenwischeraustausch
Others Automotive <b>153</b> Sonstiges Automotive

#### KUKKO Thread Repair Set

For producing heavy-duty screw joints for distorted interior threading.





Art No.	4021176	Provenue ↓			X	
		mm	mm	mm	Stück	
K-58-M05-M10	-038853	M5 - M10	0,8 - 1,0	7,6 - 15	8x5	i-Boxx

Fully-equipped with drill holder, 4 drills, 4 cutters, 4 thread cutters, 4 insertion tools and organic

The bond eliminates the need for additional mounting in the workpiece and provides stability

The synchronous threading also enables thin wall thicknesses to be repaired. Thread Repair can do more than just repairs, it can also be used as a fully functional thread in new

The original insert sleeve from the USA is made from a solid steel bushing manufactured from whole

#### KUKKO Thread Repair System in the TANOS<sup>®</sup> - Systainer For producing heavy-duty screw joints for distorted interior threading.

#### Des







#### Description

Description

Advantage

multi-oil spray.

Instructions on the cover. Secure storage in special foam.

without extra space requirement.

material.

For metric threads M5, M6, M8 and M10.

The shape of the bushing prevents unscrewing.

Also capable of repairing short and small threads.

workpieces (during a production process).

- . The original insert sleeve from the USA is made from a solid steel bushing manufactured from whole material.
- Instructions on the cover.
- Secure storage in special foam.

#### Advantage

- The shape of the bushing prevents unscrewing.
- The bond eliminates the need for additional mounting in the workpiece and provides stability without extra space requirement.
- Also capable of repairing short and small threads.
  - The synchronous threading also enables thin wall thicknesses to be repaired.
  - Thread Repair can do more than just repairs, it can also be used as a fully functional thread in new workpieces (during a production process).

Art No.	4021176	inch	inch	] inch	St. / pcs.	
58-UNC10	-690419	10" 10"	24 Gang 24 Gang	0,30 0,37	5 5	Tanos® - Systainer
58-UNC12	-690518	1/2" 1/2"	13 Gang 13 Gang	0,65 1,00	5 5	Tanos® - Systainer
58-UNC14	-690617	1/4" 1/4"	20 Gang 20 Gang	0,38 0,50	5 5	Tanos® - Systainer
58-UNC38	-690716	3/8" 3/8"	16 Gang 16 Gang	0,52 0,75	5 5	Tanos® - Systainer
58-UNC58	-690921	5/8" 5/8"	11 Gang 11 Gang	0,85 1,25	5 5	Tanos® - Systainer
58-UNC516	-690815	5/16" 5/16"	18 Gang 18 Gang	0,45 0,62	5 5	Tanos® - Systainer
58-UNC716	-691027	7/16" 7/16"	14 Gang 14 Gang	0,60 0,87	5 5	Tanos® - Systainer
58-UNC916	-695025	9/16" 9/16"	12 Gang 12 Gang	0,75 1,12	5 5	Tanos® - Systainer

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## **Pulling device**

For removing hubs on SAF and BPW axes for cars and commercial vehicles

Î	

ring system.							
Art No.	4021176	M18 x 1,5	M20 x 1,5	M22 x 1,5	mm		
226-4/11	-831362	DAF, Daimler, Faun, IVECO, EVO Bus, Setra, MAN, VW LT35, 40, 45, 50	Auwärter, DAF, Daimler, Faun, IVECO, EVO Bus, Setra, MAN, Steyr-Daimler- Puch, VOLVO, Anhänger	Auwärter, Bedford, DAF, Daimler, Faun, IVECO, EVO Bus, RVI, Setra, MAN, Steyr-Daimler- Puch, VOLVO,	90x30; 110x30		

Almost all components available as replacement parts, time-saving order process thanks to numbe-

#### Pulling device for truck axles, in case

For removing hubs on SAF and BPW axes for cars and commercial vehicles

Description

Advantage

.

Description

Auxiliary hydraulic ram

- Screw adapters (pairs): M18x15 / M20x1,5 / M22x1,5
- Pressure pads and extensions includes in the set. •

Screw adapters (pairs): M18x15 / M20x1,5 / M22x1,5 Pressure pads and extensions includes in the set.

Advantage

Almost all components available as replacement parts, time-saving order process thanks to numbering system.



Art No.	M18 × 1,5	M20 x 1,5	M22 x 1,5	mm	max. t	mit with	Ĉ
K-226-4/12	DAF, Daimler, Faun, IVECO, EVO Bus, Setra, MAN, VW LT35, 40, 45, 50	Auwärter, DAF, Daimler, Faun, IVECO, EVO Bus, Setra, MAN, Steyr-Daimler- Puch, VOLVO, Anhänger	Auwärter, Bedford, DAF, Daimler, Faun, IVECO, EVO Bus, RVI, Setra, MAN, Steyr-Daimler- Puch, VOLVO,	90x30; 110x30	15	226-4/11 9-2	Kunst- stoff / Plastic

Flang type axle puller



Art No.	4021176			
		mm	mm	mm
230	-031038	4-14	100 - 150	265
230-S	-893377	4-14	100 - 150	-

## Brake caliper tools set

## For quick, timesaving repair.



#### Description

Pulling hook for brake linings.

Piston resetting equipment for controlled, damage-free and tilt-free resetting of the pistons on disc brakes in cars, motorcycles and trucks with fixed-caliper disc brakes.

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- Brake piston bracket allows the reset brake pistons to be held in place during installation and removal of the brake caliper with the brake hose connected.
- Piston turning pliers, for accurate adjustment of the piston heel with disc brakes and to screw the piston back in brake calipers with integrated parking brake.
- Brake caliper brush to clean the brake caliper from brake wear when replacing the coverings.

#### Advantage

Almost all components available as replacement parts, time-saving order process thanks to numbering system.

Art No.	4021176		Stück pieces
126-10	-534966	126-00, 126-01, 126-02, 126-03, 126-04, 127	6

#### Disk brake pad remover



The tool allows the removal of stuck brake pads from the fixed caliper of disc brakes.

Art No.	4021176	Bezeichnung description	L ∣←→∣ mm
123	-270789	Mercedes	
123-2	-431586	Vierkant / Square profile	400 x 14
123-3	-804243	Sechskant / Hexagon profile	400 x 17

#### 2-jaw puller for brake linkage adjusters

For removing particularly tight ball bearings, bearing rings and workpieces.

#### Description

- Note: Pressure pads from series 600-17 are a good addition if the shaft is hollow and the spindle cannot be supported.
- Milled thread treated with special coating.

#### Advantage

- Clamps increase the pressure of the hooks significantly and prevent the puller from slipping.
- Almost all components available as replacement parts, time-saving order process thanks to numbering system.



Art No.	4021176	<b>ر اللہ</b> mm	mm Į	für for
204-30	-914379	150	140	für Achsen an LKW-Anhängern
## For 6-piston brake callipers Description Heavy design for retraction of the high-performance brake callipers in heavy or extremely high-performance vehicles. The solid design ensures that all pistons are retracted synchronously. Advantage With a universal fit, the retractor is suitable for the following vehicles: Touareg, Phaeton, Porsche Cayenne, Audi A8, Q7, BMW M3, etc. Art.-4031176 No. mm mm mm -018954 126-15 73 134 174

# Set of stud pulling devices with screw adapters

For pulling bolts, such as brake shoe bolts or spring bolts, on commercial vehicles.



# GE81-1615, GE101-1615, GE142-1615, GE1615-1615, GE1415-1615, GE162-1615, GE2015-1615, 225-GH M8x1; M10x1; M14x2; 14x1,5; M16x2; M16x1,5; M20x1,5

# Spring compressor "Universal

For dismounting of coil springs.

**Brake piston retractor** 



# Description

Connecting bracket is adjustable.

Advantage

Does not take up much space.

Art No.	<b>           </b>	ø] <b>://///</b>	, mm	max. t
65-0	-020636	110 - 180	100 - 200	2
65-1	-020711	110 - 180	100 - 300	2
65-2	-020896	110 - 180	100 - 400	2

# Spring compressor "MacPherson

For dismounting of coil springss.



# Description

Connecting bracket is adjustable.

Item 66-3 consists of the spring compressor item 66-2 and two additional, short thread rods.

# Advantage

Does not take up much space.

Art No.	4021176l	Ø <b>1∎₩₩₩</b> mm	 mm	max. t
66-1	-020971	110 - 180	100 - 250	2,5
66-2	-170201	110 - 180	100 - 400	2,5
66-3	-170386	110 - 180	100 - 400	2,5



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08



# Clamp spring spreader for VW-exhaust system





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# Set of clamp spring tension wedges for VW-exhaust system



Art No.	4021176	für for
119-1	-365904	VW

# Piston ring compressor

For tensioning the piston rings when mounting the pistons in the cylinder.



Art No.	4021176	mm	mm
100-0	-428203	40 - 75	50
100-1	-022203	57 - 125	80
100-2	-022388	90 - 175	80
100-3	-022463	90 - 175	165

# **KUKKO** Special grease for pressure spindles



# Piston ring spreaders

For spreading the piston rings.



Art No.	4021176		L ∣←──→I
		mm	mm
101-1	-022531	50 - 100	200
101-2	-022616	90 - 150	240

# Piston pin driver

For gentle insertion and removal of the piston pins.

# Description

- Item 102-0 with two additional pressure pads.
- Item 102-1 with three additional pressure pads.
- Advantage
- Pistons will not be damaged.

Art No.	<b>  </b>     4021176	, i↔→i mm
102-0	-170874	38
102-1	-022791	100

# Universal piston ring spreader

for efficient assembly of piston rings



# Description

With scale for reading the spread and locking bolt. •

# Advantage

.

.

.

Stop screw for limiting the respective spreading setting for the piston ring. •

- No increased wear of the cylinder wall through deformed piston rings No oil leakage due to increased cylinder wear No piston ring cracks due to overstretching during spreading.
- No piston seizure due to piston ring fractures.

Art No.	4021176	
		mm
101-3	-974489	60 - 140

# **Steering wheel pullers**



# Description

Particularly strong design for the strongest loads.

# Advantage

- Exchangeable inlay rings. Almost all components available as replacement parts, time-saving order process thanks to numbering system.

Art No.	4021176	<mark>↓</mark>   mm
31-1	-013881	22
31-2	-013966	22

ST

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# Steering wheel puller for steering wheel with spokes



Art No.	4021176		
		mm	mm
32-1	-014048	100	17
32-2	-014123	120	19

With one tensile ring each in 100 and 150 mm diameter for steering wheels with three or four spokes

Almost all components available as replacement parts, time-saving order process thanks to numbe-

# **Steering wheel pullers**

For cars with narrow puller slits.



### Description

Description

Advantage

ring system.

•

.

One pair of short puller hooks for sports steering wheels.

For steering wheels with three or four spokes

One pair of long puller hooks for standard steering wheels.

# Advantage

Cap for protection of the thread in the steering column.

Almost all components available as replacement parts, time-saving order process thanks to numbering system.

Art No.	4021176	<b>ر اللہ</b> mm	<u>mm</u>	 ↓ ↓ mm	für for
33	-014208	50 - 150	90,130	17	Opel

# Steering wheel pullers

For universal application with steering wheels with large puller slits.



Model 34-0 with one pair of short puller hooks (87 mm)

Model 34-1 with one pair of short puller hooks (87 mm) and one pair of long puller hooks (135 mm)

# Advantage

Cap for protection of the thread in the steering column.

Almost all components available as replacement parts, time-saving order process thanks to numbering system.

Art No.	4021176	L ∣←→I		für for
		mm	mm	
34-0	-865879	35-90	17	GM 3/Opel
34-1	-865886	35-90	17	Universal

# Universal drop arm puller

П 34-0

For removing drop arms from medium and heavy commercial vehicles.

34-1



Adva	antage		
•	With	increasing	spind

Mechanical pressure screw.

Milled thread treated with special coating.

Description

- le pressure, the pulling hooks clasp the part to be removed with an increasing amount of force.
- Almost all components available as replacement parts, time-saving order process thanks to numbering system.

Art No.	4021176	mm	<b>m</b> m <b>⊡</b>	 ⊢ mm	für for	
204-44	-969539	90	70	24	für mittlere und schwere Nutzfahrzeuge for medium-sized and heavy utility vehicles	

### A world in motion since 1919

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Strap wrench				(	ST
To loosen the oil filter.					
	Description				
	Chrome-plated	<b>6</b> 1 1 1 1 1			
	With strong, non-slip	fabric tape and rubber g	ıp.		
T.	Advantage				
	Extra wide =25 mm				
	Art			Ø	
	No.	40	21176	Ø	
				mm	
	104	-02	3606	180	
Chain wrench				9	ST
104		ſ	1		
			a		
	Art No.	4021176	Ø		
	10.		mm	mm	
	104-32	-790751	0-110	24	
			0.110		
Throad L					
Oil filter wrench				2	ST
Oil filter wrench To disconnect the oil filter and other round screwed joints.				2	ST
	Description			2	ST
	<ul> <li>Steel tape is adjustable</li> </ul>		pplication.	2	ST
	<ul> <li>Steel tape is adjustat</li> <li>Item 105-0 with rugg</li> </ul>	ole. ged handle grip for quick a :e-saving square drive for			ST
	<ul> <li>Steel tape is adjustat</li> <li>Item 105-0 with rugg</li> </ul>	ged handle grip for quick a			ST
	<ul> <li>Steel tape is adjustat</li> <li>Item 105-0 with rugg</li> </ul>	ged handle grip for quick a			ST
	Steel tape is adjustat     Item 105-0 with rugg     Item 105-1 with space	ged handle grip for quick a		spaces.	ST
	Steel tape is adjustat     Item 105-0 with rugg     Item 105-1 with space     Art	ged handle grip for quick a centre of the saving square drive for the saving square dr	working in the tightest		ST
To disconnect the oil filter and other round screwed joints.	Steel tape is adjustat     Item 105-0 with rugg     Item 105-1 with space	ged handle grip for quick a centre of the saving square drive for the saving square dr		spaces. Ø	ST
	Steel tape is adjustat     Item 105-0 with rugg     Item 105-1 with space     Art     No.	ged handle grip for quick a ce-saving square drive for guide drive for	working in the tightest	spaces. Ø mm	ST
To disconnect the oil filter and other round screwed joints.	Steel tape is adjustat     Item 105-0 with rugg     Item 105-1 with space     Art     No.  105-0	ged handle grip for quick a ce-saving square drive for	Working in the tightest	spaces. Ø mm 70-110	ST
To disconnect the oil filter and other round screwed joints.	Steel tape is adjustat     Item 105-0 with rugg     Item 105-1 with space     Art     No.	ged handle grip for quick a ce-saving square drive for	working in the tightest	spaces. Ø mm	ST
To disconnect the oil filter and other round screwed joints.	Steel tape is adjustat     Item 105-0 with rugg     Item 105-1 with space     Art     No.  105-0	ged handle grip for quick a ce-saving square drive for	Working in the tightest	spaces. Ø mm 70-110 70-110	
To disconnect the oil filter and other round screwed joints.	Steel tape is adjustat     Item 105-0 with rugg     Item 105-1 with space     Art     No.  105-0	ged handle grip for quick a ce-saving square drive for	Working in the tightest	spaces. Ø mm 70-110 70-110	ST
To disconnect the oil filter and other round screwed joints. To disconnect the oil filter and other round screwed joints. Diffilter wrench To disconnect the oil filter and other round screwed joints.	Steel tape is adjustat     Item 105-0 with rugg     Item 105-1 with space      Art     No.  105-0 105-1	ged handle grip for quick a ce-saving square drive for	Working in the tightest	spaces. Ø mm 70-110 70-110	
To disconnect the oil filter and other round screwed joints. The second screwed joints is a second screwed joint is a second screwed scre	Steel tape is adjustat     Item 105-0 with rugg     Item 105-1 with space      Art     No.  105-0 105-1  Description     Extremely strong and	ged handle grip for quick a ce-saving square drive for	Working in the tightest	spaces. Ø mm 70-110 70-110	
To disconnect the oil filter and other round screwed joints. To disconnect the oil filter and other round screwed joints. Diffilter wrench To disconnect the oil filter and other round screwed joints.	Steel tape is adjustat     Item 105-0 with rugg     Item 105-1 with space      Art     No.  105-0 105-1  Description     Extremely strong and     Designs with profile	ged handle grip for quick a ce-saving square drive for	working in the tightest	spaces. Ø mm 70-110 70-110	
To disconnect the oil filter and other round screwed joints. The second screwed joints is a second screwed joint is a second screwed scre	<ul> <li>Steel tape is adjustat</li> <li>Item 105-0 with rugg</li> <li>Item 105-1 with space</li> <li>Art No.</li> <li>105-0</li> <li>105-1</li> </ul> Description <ul> <li>Extremely strong and</li> <li>Designs with profile</li> <li>Drive via external here</li> </ul>	ged handle grip for quick a ce-saving square drive for	working in the tightest	spaces. Ø mm 70-110 70-110	
To disconnect the oil filter and other round screwed joints. The second screwed joints is a second screwed joint is a second screwed scre	<ul> <li>Steel tape is adjustation</li> <li>Item 105-0 with rugging</li> <li>Item 105-1 with space</li> <li>Art No.</li> <li>105-0</li> <li>105-1</li> <li>Description</li> <li>Extremely strong and</li> <li>Designs with profile</li> <li>Drive via external her</li> <li>Advantage</li> </ul>	ged handle grip for quick a ce-saving square drive for	working in the tightest	spaces. Ø mm 70-110 70-110	
To disconnect the oil filter and other round screwed joints. The second screwed joints is a second screwed joint is a second screwed scre	<ul> <li>Steel tape is adjustat</li> <li>Item 105-0 with rugg</li> <li>Item 105-1 with space</li> <li>Art No.</li> <li>105-0</li> <li>105-1</li> <li>Description</li> <li>Extremely strong and</li> <li>Designs with profile</li> <li>Drive via external he</li> <li>Advantage</li> </ul>	ged handle grip for quick a ce-saving square drive for	working in the tightest	spaces. Ø mm 70-110 70-110	
To disconnect the oil filter and other round screwed joints. The second screwed joints is a second screwed joint is a second screwed scre	<ul> <li>Steel tape is adjustation</li> <li>Item 105-0 with rugging</li> <li>Item 105-1 with space</li> <li>Art No.</li> <li>105-0</li> <li>105-1</li> <li>Description</li> <li>Extremely strong and</li> <li>Designs with profile</li> <li>Drive via external her</li> <li>Advantage</li> </ul>	ged handle grip for quick a ce-saving square drive for	working in the tightest	spaces. Ø mm 70-110 70-110	
To disconnect the oil filter and other round screwed joints. The second screwed joints is a second screwed joint is a second screwed scre	<ul> <li>Steel tape is adjustate</li> <li>Item 105-0 with rugg</li> <li>Item 105-1 with space</li> <li>Art No.</li> <li>105-0</li> <li>105-1</li> </ul> Description <ul> <li>Extremely strong and</li> <li>Designs with profile</li> <li>Drive via external he</li> </ul> Advantage <ul> <li>Universal use also in I</li> </ul>	ged handle grip for quick a ce-saving square drive for	working in the tightest	spaces. Ø mm 70-110 70-110	



Art No.	4021176	Ø	 ⊷ I mm	mm €	. mm
108-1	-760426	60-100	10	12,5	21
108-2	-965487	65-120	10	12,5	21
108-3	-967900	90-140	12,5	12,5	-

www.KUKKO.com

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# Universal hub puller

# For cars and trucks with 250 mm bolt circle.



Art No.	4021176		₽× ₽×	
		mm	Stück	mm
38	-014383	250	5	27

Almost all components available as replacement parts, time-saving order process thanks to numbe-

Short hydraulic spindle series 800 for simple work can also be used as an option.

Protection of the wheel studs with the movable nut pocket.

# Universal hub puller, impact-/shock design

For cars and trucks with 225 mm bolt circle.



# Advantage

Advantage

ring system.

The spindle runs in an axially moveable mounted threaded bushing, if the spindle head needs to be pounded t to loosen the wheel hub.

Almost all components available as replacement parts, time-saving order process thanks to numbering system.

Art No.	4021176	mm	<b>S</b> tück
40-3	-014611	225	3
40-5	-014956	225	5

# Hydraulic hub puller

Universal application for removing hubs from cars and trucks



# Description

Damage to the wheel bolts can be prevented by using different sized index plates.

- Possible to adjust the jaws to two different lengths
- With centering-pin and 50, 100 and 150 mm extension pieces

# Advantage

Easy handling

- Flexibility through variably sized index plates
- Protection of wheel bolts through consistently flush captive-nut retainers

Art No.	4021176	mm	<b>L</b> Stück	max. t	
10-A	-005626	250	6	20	L-Boxx
10-G	-005701	350	7	20	L-Boxx

# Hydraulic wheel puller for low-floor bus: MB Citaro, MAN, Neoplan Safe and fast disassembly of the hub on commercial vehicles and buses.

Description

- Bolt circle disc with different radii and bore diameters.
- 30-tonne cylinder ram

# Advantage

- Very tight, difficult-to-remove hubs are loosened.
- Gentle removal process.
- Arranged and space-efficient custody in the suitcase.
- Almost all components available as replacement parts, time-saving order process thanks to numbering system.

Art No.	4021176		max. t	für for	KOMBINERBAR	Stück pieces	
Y-60-100	-356780	M16; M18; M20	30	ZF A, B und C-Achsen (Typ AV132)RL 75 E, RL 75 EC ; ZF A, B and C-Axes (type AV132 ) RL 75 E, RL 75 EC	YHP-321	22	L-Boxx







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# Hub puller

Universal application for removing hubs from cars and trucks



<ul> <li>Protection of wheel bolts through consistently flush captive-nut retainers</li> </ul>							
Art No.	4021176		<b>Å</b> ×	max.			
		mm	Stück	t			
10-M	-862311	350	6	15			

# Bracket hook with slide hammer

Specially profiled bracket hooks for releasing the control arm from the suspension joint clamp and body work.

- Description
- Bracket hook with slide hammer

Heavy-duty mechanical design

Possible to adjust the jaws to two different lengths

Elevibility through variably sized index plates

- Extra heavy, with 5 kg impact weight.
- Advantage

Description

Advantage

Description

Advantage

Easy handling

Can be combined with series 229 for disassembly of the wheel hub.

The flange is equipped with variable spaced slits for standard screw use.

- TIP: 22-0-2 The impact of the slide hammer can be increased by increments of 3 kg by screwing in one or multiple supplementary weights 22-0-2-100.
- Almost all components available as replacement parts, time-saving order process thanks to numbering system.

Art No.	4021176I	mm		
229-1	-995002	340	229-03	22-0-2, 229-01

# Hub puller with slide hammer (4 and 5 hole hub)

ØB

For pulling all 4 and 5-hole hubs on almost all passenger car models.





Art No.	4021176				COMBINERBAR	
		mm	mm	mm		
229-1-2	-545733	97-145	14	340	229-01	22-0-2, 229-03

Almost all components available as replacement parts, time-saving order process thanks to numbering system.

# Hydraulic hub puller

For pulling all 4 and 5-hole hubs on almost all passenger car models.

hydraulic



- The flange is equipped with variable spaced slits for standard screw use.
- For pulling all 4 and 5-hole hubs for VW, Audi, Seat, Skoda, Opel, Volvo, Fiat, Renault etc.

# Advantage

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- Also for extracting drive shafts for vehicles with front wheel drive.
- This puller can be driven by the 22-0-2 slide hammer instead of the hydraulic spindle.
- Almost all components available as replacement parts, time-saving order process thanks to numbering system.

Art No.	4021176	mm	mm	max. t	
229-2	-995026	97 - 145	0-14	10	22-0-2, 229-3/20
229-3	-995033	97 - 145	0-14	15	22-0-2, 229-3/20



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For safe and simple 204-V disassembly of the bearing inner race.







For pulling all 4 and 5-hole hubs for VW, Audi, Seat, Skoda, Opel, Volvo, Fiat, Renault etc.

# Universal whiper-arm puller

# For pulling tight-fitting, rusted and deep-set windscreen whiper arms.



ſ	ring system.			
	Art No.	4021176	Ţ	

Almost all components available as replacement parts, time-saving order process thanks to numbe-

mm

60

Suitable for front and rear wipers with the washing fluid hose passing through the hub.

# Universal wiper arm puller

For pulling tight-fitting, rusted and deep-set windscreen whiper arms.

### Description

128-F-SW

Description

Advantage

Mechanical pressure screw.

Milled thread treated with special coating.

- . The one-piece bell-shaped design fits on all VW, Audi, Seat, Skoda and other models.
- Shaped for optimal fit with all commonly used types of wiper arms.

-971242



# Advantage

- Windshield wiper arms can be pulled without removing the bonnet.
- The threaded spindles are guided by a movable bush, which allow the puller to be fitted to the edge of the arm at the start and in the middle at the end of the removal process.
- Special threads enable especially high pulling forces.
- Solid, single-piece milled body for high strength.
- No damage to wiper arm, shaft, etc.

Art No.	4021176	in a mm	<b>Å</b> mm	mm	<b>الم</b> mm
142-1	-555572	15	64,5	2,5	47,5
142-2	-555602	23,5	65	3	48
142-3	-555619	15	46	2,5	29
142-4	-555626	26,5	30	5	16

# Universal wiper arm puller sets

General purpose set used for pulling tight-fitting, rusted and deep-set windscreen whiper arms.



K-142/4



K-142/6



Art No.	<b>أ</b> mm	<b>₫</b> mm	a mm	∎ mm	mm mm	nm		Stück pieces	Ô
K-142/6	60	50	15-26,5	30-64,5	2,5-5	16 - 48	128-F-SW 43-1 142-1 142-2 142-3 142-4	8	i-Boxx
K-142/4	60	50	15; 26,5	30; 64,5	2,5; 5	16; 47,5	128-F-SW 43-1 142-1 142-4	4	L-Boxx MINI

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mm

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The one-piece bell-shaped design fits on all VW, Audi, Seat, Skoda and other models. Shaped for optimal fit with all commonly used types of wiper arms. Mechanical pressure screw.

- Milled thread treated with special coating.
- Instructions on the cover.

# Advantage

Description

- Windshield wiper arms can be pulled without removing the bonnet.
- The threaded spindles are guided by a movable bush, which allow the puller to be fitted to the edge of the arm at the start and in the middle at the end of the removal process.
- Suitable for front and rear wipers with the washing fluid hose passing through the hub.
- Special threads enable especially high pulling forces. Solid, single-piece milled body for high strength.

# 2-jaw puller

# For VW/Audi coupling gear combination from construction year 2007.





# on

- With slim but strong special hooks and retrofittable side clamp for VW/Audi coupling gear combination from construction year 2007.
  - Can be used for many gears and ball bearings where standard pullers cannot be used.
- Mechanical pressure spindle
- Milled thread treated with special coating.
- Optimal adjustment of the spindle to the shaft with 2-sided spindle top.

# Advantage

- Clamps increase the pressure of the hooks significantly.
  - Spindle head band prevents the wrench from slipping off.
- Safe, fast and efficient disassembly.

Art No.	4021176	mm.	mm Į	    mm	max.
20-10-V	-907944	120	100	17	4.5
20-10-0	-907944	120	100	17	4,5

# **Battery terminal puller**





Two-arm design for space-saving operation. Mechanical pressure screw.

One-hand automatic system.

Milled thread treated with special coating.

Advantage

Description

- The one-hand automatics allow for safe work even in tight spaces.
- The thin pulling hooks are suitable for narrow, difficult-to-access locations.

Art	4021176	rt	<b>رأي</b>
No.		mm	mm
48	-170539	60	40

# 2-jaw puller "Cobra" for inner races with side clamp

For safe and simple disassembly of the bearing inner race.





- Adapter fits on all common axial holes, e.g. on VAG and other models.
- Puller hooks are specially hardened and smoothed.
- With integrated clamp.
- Mechanical pressure screw.
- Milled thread treated with special coating.

# Advantage

- When the tension clamp is tightened, the pulling jaws grip below the part to be removed and loosen it before the actual removal process.
- Clamps increase the pressure of the hooks significantly.
- Spindle head band prevents the wrench from slipping off.
- Safe, fast and efficient disassembly.
- No cut-off grinding, chiselling or hammering required

Art No.	4021176	Ţ	ŢŢĴ	
		mm	mm	mm
204-V	-974533	90	100	22



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# Puller for cam wheels (VW/Audi)

For removing the camshaft sprockets.



Description

- Four special pulling claws.
- Mechanical pressure screw.

Milled thread treated with special coating.

# Advantage

Spindle head band prevents the wrench from slipping off.

Almost all components available as replacement parts, time-saving order process thanks to numbering system.

Art No.	  4021176	für for
118-0	-860904	TDI (4-6-8 Zyl., V6, V8
118-1	-989636	FSI; 2 Liter

# Valve lifters

For OHV engines.

# Description

Item 103-1 designed with straight claws.

Item 103-2 and 103-3 designed with straight and curved claws.

Item 103-3 for used in large cars and delivery vans.



Art No.	4021176	mm
103-1	-022876	60 - 230
103-2	-022951	40 - 230
103-3	-023378	115 - 290

# **Clipping device for fluid hoses**



Art No.	<b>4</b> 021176	Ø
116-20	-971631	5-20

# 2-jaw puller for vibration dampers with quick adjusting jaws



Description

 Pulling hook with quick adjusting capability quick adjust.

Dulling hook with quick adjusting capability quick adjust.

Pulling hooks with infinitely variable adjustment on the cross-beam.

Two-arm design for space-saving operation. Parallel pulling hooks in every position, even with full load.

Mechanical pressure screw.

incentarinear pressure

# Advantage

Can be installed on various pulling hooks.

- Variable reach thanks to jaw extensions, available up to a puller size of -30.
- Spindle head band prevents the wrench from slipping off.

Cross-beam with hexagonal profile for good grip.

Suitable for pulling asymmetric workpieces.

Art No.	4021176	mm	Bezeichnung description
124-20-A	-985140	200	VW T4; VAG Transporter (96)
124-20-B	-985157	225	VW T4; VAG Transporter (96)
124-20-U	-985164	45 - 200	universal

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# Passenger car V-belt pulley set for all passenger car types

For multi-grooved pulleys up to 195 mm diameter.

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Art No.	4021176	ŢŢ,	<b>דו</b>
		mm	mm
124-K	-736841	195	68 - 88

Almost all components available as replacement parts, time-saving order process thanks to numbe-

# Detaching tool for car-door inside panel



# Description

Description

Advantage

ring system.

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2--component handle.

Advantage

Practical tool for professional removal of vehicle trim.

Two-arm design for space-saving operation.

Milled thread treated with special coating.

Universally applicable for most vehicle types.

Mechanical pressure screw.

Parallel pulling hooks in every position, even with full load.

Spindle head band prevents the wrench from slipping off.

Art No.	4021176	>	<b>L</b>  ←→
		mm	mm
134	-975981	175	285

# **Deflection tool for injectors**





Art No.	4021176	mm	für for
230-I	-977626	280	MB CDI

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# 3-jaw puller with self-centering jaws

For safe and damage-free removal of plugged wheel covers, dust and grease covers.

AUTOGRIP

Description

- Spring-loaded, special shape with self-centring pulling jaws.
- The quick-release lock allowed a fast replacement of the jaws.



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- Particularly well-suited for narrow grooves on dust and grease covers
- The extractor can be combined with the KUKKO counterstay 22-2 and with slide hammer 22-0-1.

Art No.	4021176	mm	<b>J</b> <u>Ī</u> mm	CONSULT STATE
225-SK	-324215	65	15	22-0-1, 22-2



# 3-jaw puller with self-centering jaws

For removing bearings, gears, discs, etc.



22 0 1.				
Art No.	4021176	, mm	J <u>Ī</u> mm	
225-1	-123405	30 - 50	25	22-0-1, 22-2
225-2	-123412	50 - 70	25	22-0-1, 22-2
225-3	-123429	70 - 90	30	22-0-1, 22-2

The extractors can be combined with the KUKKO counterstays 22-2, 22-3 and with slide hammers

Spring-loaded, special shape with self-centring pulling jaws. The quick-release lock allowed a fast replacement of the jaws.

Spring-loaded hooks hold the device in place on the object to be pulled.



# Chain splitting and riveting tool

For splitting and riveting single strand roller chains.



# Description

Description

Advantage

22-0-1

- For single strand roller chains per DIN 8187 and a bolt diameter of 3.28 5.72 mm
- The frame of the motorcycle (frame, swing arm) often makes it necessary to separate the chain directly on the vehicle. Use of "inappropriate" tools such as screwdrivers or something similar is very likely to result in injury.

# Advantage

Set includes a pressure adapter to properly adjust the distance of the riveting bolts. This ensures there is never too much pressure on the chain during attachment.

Art No.	I4021176	mm	<u>کېکې (</u> mm		Stück pieces	Ô
K-59-1/14	-000461	3,28 - 5,72	6,3 - 19	59-1, 59-1-1, 59-1-2, 58-1	14	i-Boxx

# Steering head bearing fitting tool kit

For installation of steering head bearings on motorcycles



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11	escr	int	ion
-			

- Set is suitable for all motorcycles.
- The following are also included in the set: 1 sealing grip device for hoses.
- Specifically intended for the replacement of the steering head bearing.
- Instructions and conversion table in the cover.
- Secure storage in special foam.

# Advantage

- The special shape of the impact ring allows for the power to be transmitted only to the internal ring during pressing or hammering of the tapered roller bearing.
- This means that the bearing cage will not be destroyed.
- The combination of impact ring and impact sleeve required for the installation of the ball bearing can be found in the table inside the case cover.
- The axes, bearing casings and gaskets of the bearing will not be damaged.
- The impact rings have a rubber ring and ensure locking at the strike pipes.

Art No.	4021176		×	Ë		×
		mm	Stück	mm	mm	Stück
71-M	-772788	25 - 35	1	32	360	4

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# Single soft scraper

For the careful removal of bonded weights, bonded protective strips, stickers, vignettes, etc. Description

2200 2200-1 2200-2 2200-3 2200-4

Art No.		∎ mm	Stück pieces
2200	-001611	22 x 60; 22 x 80; 22 x 150; 28 x 150	4
2200-1	-324284	22 x 60	1
2200-2	-324291	22 x 80	1
2200-3	-324307	22 x 150	1
2200-4	-324314	28 x 150	1

Professional quality made from POM (polyoxymethylene). Particularly sharp due to polished scraper blade.

Reinforced connection between handle and blade. Good surface feel due to ergonomic handle.

# Pulse wheel puller

For the maintenance and servicing of alternators and ignition systems.

# Description

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Advantage

Slip protection.

Solvent-resistant.

Does not damage surfaces. Robust blade, can be sharpened.

- Mechanical pressure screw.
  - Milled thread treated with special coating.





Art No.			L I←→I mm
98-1	-433719	M27x1,0	55
98-2	-433733	M26x1,5; M22x1,5	55

# **Bolt hole puncher**

For uniform, deformation-free punching of sheet metal, such as steel, V2A, copper and aluminum.

- Description
  - Guaranteed long service life
  - Material thickness up to max. 4 mm
  - Special grade tool steel, burnished



Advantage
I deal for hard to reach places, such as in switch cabinets, junction boxes, instrument panels, sinks basins, vehicle bodies





Art No.	4021176I	Ø
121-182	-831379	18,2
121-260	-831386	26
121-266	-403187	26,6
121-319	-403194	31,9
121-326	-403200	32,6
121-389	-403224	38,9
121-190	-079092	19
121-200	-202544	20
121-225	-202575	22,5
121-184	-403163	18,4
121-293	-058776	29,3
121-265	-058752	26,5
121-186	-058745	18,6







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Bolt extractors	160
Schraubenausdreher	



No.5

\$ 5-10

# Bolt extractors with drills and drill-guide to bore out worn bolts, etc.

# 

# Advantage

Almost all components available as replacement parts, time-saving order process thanks to numbering system.

### Art.-4021176 No. mm 49-U-11 -799549 M5- M7 3,2 49-U-12 M8 - M9 -799624 4,8 49-U-13 M10 - M10 6,4 -799709 49-U-14 M12 - M12 -799884 8,0 49-U-15 M 14 - M 16 8,7 -799969

# **Bolt extractor set**

Universal set for drill out worn bolts, etc.





# Description

Instructions and conversion table in the cover.

- Secure storage in special foam.
- Personal KUKKO-Chip-Code.

Advantage

- Practical package for universal use.
- Complete easy-to-manage package.
- Almost all components available as replacement parts, time-saving order process thanks to numbering system.



**Bolt extractors "Super Traction** 

To drill out worn bolts with right-hand thread, etc.





# Description Chrome vanadium steel

• Square for operation with a tap spanner and an open-end spanner.

Advantage

Narrow grooves offer better traction for convenient operation.

Art No.	4021176	mm
49-T-1	-758461	4 - 5
49-T-2	-758539	5 - 7
49-T-3	-758614	8 - 12
49-T-4	-758799	12 - 14
49-T-5	-758874	16 - 20

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# Bolt extractor set "Super Traction

To drill out worn bolts with right-hand thread, etc., in a set.



Description

Description

:

Chrome vanadium steel

Chrome vanadium steel

	Advantage <ul> <li>Narrow grooves offer better traction for convenient operation.</li> </ul>						
	Art No.	4021176	mm	Stück pieces			
Ī	49-T-A	-758959	4 - 20	5	Kunststoff / Plastic		

Square for operation with a tap spanner and an open-end spanner.

# Bolt extractors, american shape with broad flutes

To drill out worn bolts with right-hand thread, etc.

# 49





# Advantage • Wide grooves for soft materials, e.g. brass, aluminum, VA, etc.

Square for operation with a tap spanner and an open-end spanner.

Art No.	4021176	mm	
49-01	-490569	3 - 6	
49-02	-490644	6 - 8	
49-03	-490729	8 - 11	
49-04	-490804	11 - 14	
49-05	-490989	14 - 18	
49-06	-491061	18 - 24	

# Bolt extractor set, american shape with broad flutes

To drill out worn bolts with right-hand thread, etc., in a set.



Chrome vanadium steel

Square for operation with a tap spanner and an open-end spanner.

# Advantage

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Wide grooves for soft materials, e.g. brass, aluminum, VA, etc.

Art No.	4021176	mm	Stück pieces	0
49-0-S	-491146	3 - 24	б	

Polt outro store	sermen che	no with norrow	flute
<b>Bolt extractors</b>	jerman, sna	ipe with harrow	nuces

To drill out worn bolts with right-hand thread, etc.



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# Description

Chrome vanadium steel

• Square for operation with a tap spanner and an open-end spanner.

Advantage

• Fine grooves offer better traction for convenient operation.

Art No.	4021176	mm	
49-1	-018008	3 - 6	1,8
49-2	-018183	6 - 8	3,2
49-3	-018268	8 - 11	4,5
49-4	-018343	11 - 14	6,5
49-5	-018428	14 - 18	8,5
49-6	-018596	18 - 24	12,0
49-7	-018671	24 - 33	15,3
49-8	-018756	33 - 45	20,0
49-9	-018831	45 - 52	25,0

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# **Bolt extractor sets**

To drill out worn bolts with right-hand thread, etc., in a set.



Fine grooves offer better traction for convenient operation.						
Art No.	4021176	mm	Stück pieces			
49-A	-018916	3 - 18	5	Kunststoff / Plastic		
49-B	-019098	3 - 24	6	Kunststoff / Plastic		
49-C	-019173	3 - 45	8	Kunststoff / Plastic		

Stud pullers with internal serration For extracting stud bolts or torn parts.



# Description

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Description

Advantage

Chrome vanadium steel

The knurling wheel presses the stud bolt securely against the internal serration.

Square for operation with a tap spanner and an open-end spanner.

Advantage While being bored out, the stud bolt is located in the key area and cannot break off.

Art No.		mm	<u>↓</u>   mm
50-1	-019258	5 - 10	17
50-2	-019333	8 - 19	27
50-3	-019418	18 - 25	36

# Stud pullers with internal serration

For extracting out stud bolts or torn parts.



# Description

The knurling wheel presses the stud bolt securely against the internal serration. •

### Advantage

While being bored out, the stud bolt is located in the key area and cannot break off.

Art No.	₩₩₩₩₩₩ 14021176	mm	⊷  mm
51-1	-019586	5 - 10	19
51-2	-019661	8 - 19	19
51-3	-019746	18 - 25	19

# Stud puller with extra wide working range

For extracting stud bolts or torn parts.





# Description

The knurling wheel presses the stud bolt securely against the internal serration.

Extra large working range.

## Advantage

While being bored out, the stud bolt is located in the key area and cannot break off.

Art	<b>  ₩₩₩ ₩</b> ₩₩	mm	⊷
No.	4021176		mm
52	-019821	5 - 19	19

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# Stud pullers for confined spaces

For extracting stud bolts or torn parts.







Art No.	4021176				
		mm	mm	mm	mm
53-5	-137860	5	24	65	21
53-6	-342318	6	24	65	21
53-7	-866234	7	24	65	21
53-8	-342493	8	24	65	21
53-10	-342561	10	28	75	21
53-12	-342646	12	28	75	21
53-14	-984563	14	34	75	27
53-16	-388774	16	34	75	27
53-18	-137846	18	48	100	36
53-20	-745591	20	48	100	36
53-22	-971082	22	48	100	36
53-24	-966774	24	48	100	36
53-30	-966781	30	63	125	46

# Stud pullers set for confined spaces

For extracting stud bolts or torn parts in a set.







Advantag	Ad	Var	ntaa

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Advantage

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Extra large working range. Use in cramped spaces.

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Extra large working range. Use in cramped spaces.

Art No.	4021176	mm	mm	mm	<b>↓</b> mm	Stück pieces	
53	-342233	6; 8; 10; 12	24-28	65-75	21	4	Kunststoff / Plastic





# 

Flange spreaders Flanschentreiber	166
Open-end slogging spanners Schlag-Maulschlüssel	166
Slogging spanners Schlag-Ringschlüssel	167
Europäer Europäer	167





# Flange spreaders (Pair)

# For separating and fixing the flange joints of pipelines



# Description

- Always used in pairs.
  - Fast and secure separation of the flange joints of pipelines.
  - Allows easy performance of maintenance operations such as seal replacement.
  - Mechanical pressure screw.

# Advantage

After completion of the work, the flanges are returned to their precise starting position.

Art No.	<b>↓↓↓</b> ↓↓↓↓  4021176
160-1	-025273
160-2	-025358

# **Universal spreader**

For quick, safe spreading of flanges and similar parts of all types and sizes.

# Description

Universal tool for many applications.

Design according to DIN 133

Spanner size up to 120

Up to 525 mm length, made of forged carbon-steel.

- A built-in reversible ratchet allows smooth operation of the spreader.
- The flange spreaders are designed to be used in pairs.

# Advantage

Description

Advantage

- Allows easy performance of maintenance operations such as seal replacement.
  - After completion of the work, the flanges are returned to their precise starting position.



# Open-end slogging spanners (~DIN 133)

For use in commercial vehicles, the pipe industry, tank cleaning, the petrochemical industry, steel construction, mining, etc.



opullier size up to			
Art No.	4021176	  →   mm	L I←→I mm
133-24	-865213	24	160
133-27	-854804	27	180
133-30	-854989	30	190
133-32	-855061	32	195
133-34	-904394	34	195
133-36	-855146	36	210
133-41	-855221	41	225
133-46	-855306	46	255
133-50	-855481	50	280
133-55	-855559	55	310
133-60	-855634	60	320
133-65	-855719	65	350
133-70	-855894	70	370
133-75	-855979	75	400
133-80	-856051	80	405
133-85	-856136	85	405
133-90	-856211	90	455
133-95	-856396	95	455
133-100	-856471	100	500
133-105	-865176	105	500
133-110	-865183	110	500
133-115	-865190	115	525
133-120	-865206	120	525

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# Slogging spanners (~DIN 7444)

For use in commercial vehicles, the pipe industry, tank cleaning, the petrochemical industry, steel construction, mining, etc.



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Design according to DIN 7444

# Advantage

Up to 480 mm length, made of forged carbon-steel.

Spanner size up to 120

Art No.	4021176		L ∣←→)
		mm	mm
406-24	-856549	24	160
406-27	-856624	27	180
406-30	-856709	30	190
406-32	-856884	32	195
406-34	-904431	34	195
406-36	-856969	36	205
406-38	-865961	38	205
406-41	-857041	41	225
406-46	-857126	46	240
406-50	-857201	50	250
406-55	-857386	55	270
406-60	-857461	60	270
406-65	-857539	65	290
406-70	-857614	70	320
406-75	-857799	75	325
406-80	-857874	80	345
406-85	-857959	85	360
406-90	-858031	90	400
406-95	-858116	95	400
406-100	-858291	100	400
406-105	-858376	105	435
406-110	-858451	110	435
406-115	-858529	115	435
406-120	-858604	120	480

# Europäer

For pressing and clamping several workpieces.





- Further development of the adjustable spanner "monkey wrench"
- Adjustable, open-jawed wrench.
  - Serrated gripping jaws on one side for attaching round or multi-angle objects.
- Soft plastic protective caps improve the grip in the case of metallic objects.
- Locked-Unlocked System.

# Advantage

- No uncontrolled adjustment by arresting mechanism. Serrated gripping jaws for improved possibilities of use. Lockable flat on flat or flat on round.

- Soft plastic caps enable non slip jaws. Optimally converts to different sizes.

Art No.	4021176	<b>L</b> mm	<b>B</b> i↔→i mm	Ţ≻ mm
1900-30	-000355	150	60	21
1900-50	-000362	175	95	21
1900-75	-000416	250	150	34







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# Pulling and extracting tools with hydraulic rams, pressure range 5, 10, 20, 30 and 50 t

These sturdy hydraulic pullers will solve practically any conceivable pulling problem while considerably improving productivity in repair shops and industrial facilities. They facilitate heavy manual labor and minimize lost repair time and machine outages. By exerting a precisely defined hydraulic force, they enable careful gentle application.

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Hydraulic wheel puller <b>170</b> Hydraulisches Radnabenabziehwerkzeug
Pump- driven hydraulic nut splitter <b>170</b> Pumpenhydraulische Mutternsprenger
Hydraulic 2-jaw puller with swiveling jaws and accessories <b>170</b> Hydraulische 2-armiger Abzieher mit schwenkbaren Abzughaken und Zubehör
Hydraulic 3-jaw pullers with swiveling jaws and accessories
Hydraulic push/pulling device with hydraulic hollow ram and accessories <b>175</b> Hydraulische Abziehvorrichtungen für Innenauszieher- und Trennvorrichtungen sowie Zubehör
Hydraulic hollow ram <b>178</b> Hydraulische Zylinder
Pressure pads <b>179</b> Druckstücke
Mobile hydraulic puller <b>180</b> Mobile Hydraulik-Abzieher
Protective blankets <b>184</b> Unfallschutzplane
Hydraulic push/pull device sets <b>185</b> ydraulische Abziehersätze



# Hydraulic wheel puller for low-floor bus: MB Citaro, MAN,Neoplan

Safe and fast disassembly of the hub on commercial vehicles and buses.





	ring sy	stem.		·		·		
	Art No.	4021176		max. t	für for	KOMBINERSAR COMBINABLE	Stück pieces	
Y-6	50-100	-356780	M16; M18; M20	30	ZF A, B und C-Achsen (Typ AV132)RL 75 E, RL 75 EC ; ZF A, B and C-Axes (type AV132 ) RL 75 E, RL 75 EC	YHP-321	22	L-Boxx

Almost all components available as replacement parts, time-saving order process thanks to numbe-

# Pump- driven hydraulic nut splitter in a case

hydraulic

For use in commercial vehicles, the pipe industry, tank cleaning, the petrochemical industry, steel construction, mining, etc.

Description

hydraulic, single-acting with spring return

Bolt circle disc with different radii and bore diameters.

Very tight, difficult-to-remove hubs are loosened.

Arranged and space-efficient custody in the suitcase.

30-tonne cylinder ram

Gentle removal process.

Advantage

- compact ergonomic construction
- Easy handling

Advantage

unique slanting head for use on flat surfaces

- faster spring removal
- Almost all components available as replacement parts, time-saving order process thanks to numbering system.

Art No.	4021176	<b>○</b> I↔ I mm	<b>O</b> M			
Y-57-10	-123559	10-19	M6 - M12	i-Boxx		
Y-57-19	-123566	19-24	M12 - M16	i-Boxx		
Y-57-24	-870675	24-32	M16 - M22	L-Boxx		
Y-57-32	-870682	32-41	M22 - M27	L-Boxx		
Y-57-41	-870699	41-50	M27 - M33	L-Boxx		
Y-57-50	-870705	50-60	M33 - M39	Metall		
Y-57-60	-870712	60-75	M39 - M48	Metall		
Y-5724M	-803741	Ersatzm	eißel / Replacemer	nt chisel		
Y-5732M	-803826	Ersatzm	eißel / Replacemer	nt chisel		
Y-5741M	-803901	Ersatzm	eißel / Replacemer	nt chisel		
Y-5750M	-804083	Ersatzmeißel / Replacement chisel				
Y-5760M	-804168	Ersatzmeißel / Replacement chisel				
Y-5719M	-058738	Ersatzm	eißel / Replacemer	nt chisel		
Y-5710M	-058721	Ersatzm	eißel / Replacemer	nt chisel		

# Hydraulic 2-jaw puller with swiveling jaws, with hydraulic hollow ram for pump drive

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For removing particularly large and tight bearings, gears, discs, etc.



# Description

- Hydraulic hollow ram.
- 2-jaw puller
- Swivelling puller jaws.

# Advantage

- Universal application thanks to adjustable clamping depths.
- The larger the pulling force, the stronger the puller hook's grip on the workpiece to be removed.
- Almost all components available as replacement parts, time-saving order process thanks to numbering system.

Art No.	4021176	Ţ	ŢŢ	max.	max.
		mm	mm	bar	t
Y28-205	-036088	420	300	525	15
Y38-205	-037078	700	520	580	25
Y58-205	-038068	1000	700	525	45

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# Hydraulic 3-jaw puller with swiveling jaws, with hydraulic hollow ram for pump drive

For removing particularly large and tight bearings, gears, discs, etc.

# 

Art No.	4021176	Ţ		max.	max.
		mm	mm	bar	t
Y28-206	-036248	280 - 500	300	700	20
Y38-206	-037238	330 - 900	520	700	30
Y58-206	-038228	460 - 1200	700	580	50

The larger the pulling force, the stronger the puller hook's grip on the workpiece to be removed. Almost all components available as replacement parts, time-saving order process thanks to numbe-

If there is adequate free space around the part to be removed, we recommend using a 3-jaw puller.

# Hydraulic external puller sets

For removal of particularly large and tight bearings, gears, discs, etc. in industry and commercial vehicles.

Description
 Large range for use in industry, commercial vehicles and farm machinery.

Advantage

Description

Advantage

Hydraulic hollow ram.

Swivelling puller jaws.

Hydraulic hollow ram.

2- and 3-jaw pullers.

Hydraulic hand pump, gauge and hoses.

Arranged and space-efficient custody in the metal case.

ring system.

Flexibility assured thanks to two-arm or three-arm design.

Universal application thanks to adjustable clamping depths.

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ring system	ı.		,	5 F	
Art No.	4021176	Ţ	<b>t</b> <u>j</u> ī	max. t	max. t
		mm	mm	t	t
Y28-256	-036811	280 - 500	300	15	20
Y38-356	-037801	330 - 900	520	25	30
Y58-556	-038631	460 - 1200	700	45	50

Almost all components available as replacement parts, time-saving order process thanks to numbe-

# Hydraulic hand pump, gauge and hoses

For use with pullers in the KUKKO line of hydraulic products.



YHP-320







- . The KUKKO product range includes high-pressure hydraulic hand pumps, pressure gauges and hoses, as well as various connections and adapters that are designed for durability and ease of use. The entire series is also equipped with various safety features that provide reliable performance and occupational safety.
- Almost all components available as replacement parts, time-saving order process thanks to numbering system.

# Advantage

KUKKO provides maintenance and services for registered product serial numbers.

Art No.	4021176	Ø	oil		max.	Consint Frank	
		bar	cm <sup>3</sup>	mm	t		
YHP-320	-045721	700	900	23		YF-200, YM-235	
YHP-321	-111198	700	900	23	50	-	YHP-320, YF-200
YHP-324	-045806	700	900	23	50	-	YHP-320, YM-235
YHP-325	-045981	700	900	23	50	-	YHP-320, YF-200, YM-235
YHP-326	-046483	700	900	23	50	-	YHP-325
YF-200	-045646	2 m Schlauch / 2 m hose YHP-320					-
YM-235	-157769	700 bar Nanometer / 700 bar gauge YHP-320, YF-200					-
YGA-2	-458644				Adapter		

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# Accessories for hydraulic pullers

For use with pullers in the KUKKO line of hydraulic products.



# Description

- The KUKKO product range includes high-pressure hydraulic hand pumps, pressure gauges and hoses, as well as various connections and adapters that are designed for durability and ease of use. The entire series is also equipped with various safety features that provide reliable performance and occupational safety.
- Almost all components available as replacement parts, time-saving order process thanks to numbering system.

Art No.	4021176	Bezeichnung description	max. t	соминати
Y205-00	-273759	Abzughaken mit Laschen, Schrauben und Muttern / Jaw (individual) with accessories	20	Y28-205, Y28-206, Y20-206, Y20-205
Y205-20	-038976	2-Arm Traverse / 2-jaw cross-beam	20	Y28-205, Y28-206, Y20-206, Y20-205
Y206-30	-039478	3-Arm Traverse / 3-jaw cross-beam	20	Y28-205, Y28-206, Y20-206, Y20-205
Y305-00	-273834	Abzughaken mit Laschen, Schrauben und Muttern / Jaw (individual) with accessories	30	Y38-205, Y38-206, Y30-206, Y30-205
Y305-20	-040931	2-Arm Traverse / 2-jaw cross-beam	30	Y38-205, Y38-206, Y30-206, Y30-205
Y306-30	-041433	3-Arm Traverse / 3-jaw cross-beam	30	Y38-205, Y38-206, Y30-206, Y30-205
Y505-00	-273919	Abzughaken mit Laschen, Schrauben und Muttern / Jaw (individual) with accessories	50	Y58-205, Y58-206, Y50-206, Y50-205
Y505-20	-042911	2-Arm Traverse / 2-jaw cross-beam	50	Y58-205, Y58-206, Y50-206, Y50-205
Y506-30	-043413	3-Arm Traverse / 3-jaw cross-beam	50	Y58-205, Y58-206, Y50-206, Y50-205

# 2-jaw puller with swiveling jaws (without hydraulic hollow ram for pump drive)

For removing particularly large and tight bearings, gears, discs, etc.



Jescri	ption

- 2-jaw puller
- Swivelling puller jaws.

# Advantage

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- Universal application thanks to adjustable clamping depths.
- The larger the pulling force, the stronger the puller hook's grip on the workpiece to be removed.
- YRH series hydraulic hollow ram is required for use.

Almost all components available as replacement parts, time-saving order process thanks to numbering system.

Art No.	4021176	<b>T</b>		max.	für for	
		mm	mm	t		
Y20-205	-035906	420	300	15	KUKKO, Enerpac, OTC, Powerteam, NIKE	
Y30-205	-036996	700	520	25	KUKKO, Enerpac, OTC, Powerteam, NIKE	
Y50-205	-037986	1000	700	45	KUKKO, Enerpac, OTC, Powerteam, NIKE	

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# 3-jaw puller with swiveling jaws (without hydraulic hollow ram for pump drive)

For removing particularly large and tight bearings, gears, discs, etc.

-	
Descri	iption

- 3-jaw puller
- Swivelling puller jaws.

# Advantage

Description

occupational safety.

ring system.

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- Universal application thanks to adjustable clamping depths. .
- The larger the pulling force, the stronger the puller hook's grip on the workpiece to be removed.
- YRH series hydraulic hollow ram is required for use. .
  - Almost all components available as replacement parts, time-saving order process thanks to numbering system.

Art No.	4021176	Ţ		max.	für for
		mm	mm	t	
Y20-206	-036163	280 - 500	300	20	KUKKO, Enerpac, OTC, Powerteam, NIKE
Y30-206	-037153	330 - 900	520	30	KUKKO, Enerpac, OTC, Powerteam, NIKE
Y50-206	-038143	460 - 1200	700	50	KUKKO, Enerpac, OTC, Powerteam, NIKE

The KUKKO product range includes high-pressure hydraulic hand pumps, pressure gauges and

hoses, as well as various connections and adapters that are designed for durability and ease of use. The entire series is also equipped with various safety features that provide reliable performance and

Almost all components available as replacement parts, time-saving order process thanks to numbe-

# Accessories for hollow rams

For use with pullers in the KUKKO line of hydraulic products.



Y218-10 Y318-10 Y518-10



Y218-10 Y318-10 Y518-10

Art No.	4021176	Bezeichnung description	max. t	CONSTANT RESERVE
Y218-10	-040368	Handkurbel / Crank	20	YRH-202
Y218-11	-040443	Mittelspindel / Mechanical screw	20	YRH-202
Y318-10	-041761	Handkurbel / Crank	30	YRH-302
Y318-11	-041846	Mittelspindel / Mechanical screw	30	YRH-302
Y518-10	-044243	Handkurbel / Crank	50	YRH-603
Y518-11	-044328	Mittelspindel / Mechanical screw	50	YRH-603

# Hydraulic 3-jaw combination puller with swiveling jaws, with hydraulic cylinder for pump drive

For removing particularly large and tight bearings, gears, discs, etc.



Art No.	4021176	Ţ	Ţ			max.
		mm	mm	mm		t
Y08-208	-461774	250	215	125	1 1/2" - 16 UN	5
Y18-208	-461699	500	500	250	2 1/4 - 14 UNS	10

Combi-pullers can be used as a 3-jaw and 2-jaw puller. Universal application thanks to adjustable clamping depths. The larger the pulling force, the stronger the puller hook's grip on the workpiece to be removed. Almost all components available as replacement parts, time-saving order process thanks to numbe-

# 3-jaw combination puller with swiveling jaws (without hydraulic cylinder for pump drive)

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For removing particularly large and tight bearings, gears, discs, etc.



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D	escr	ipt	ion

Description

Advantage

Swivelling puller jaws.

ring system.

Swivelling puller jaws.

# Advantage

- Combi-pullers can be used as a 3-jaw and 2-jaw puller.
- Universal application thanks to adjustable clamping depths.
- The larger the pulling force, the stronger the puller hook's grip on the workpiece to be removed.
- YRE series hydraulic cylinder ram with collar threads is required for use.
- Almost all components available as replacement parts, time-saving order process thanks to numbering system.

Art No.	4021176	mm	mm t		für for	max. t
Y05-208	-172366	250	215	1 1/2"- 16UN	KUKKO, Enerpac, OTC, Powerteam, REHOBOT	5
Y10-208	-172441	500	500	2 1/4 - 14 UNS	KUKKO, Enerpac, OTC, Powerteam, REHOBOT	10

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# Hydraulic push/pulling device with hydraulic hollow ram for pump drive

# For removing particularly large and tight bearings, gears, discs, etc. using separator blades and internal extractors.

Description

Hydraulic hollow ram.

# Advantage

Easy and even pulling for particularly tight parts.

Almost all components available as replacement parts, time-saving order process thanks to numbering system.

Art No.	4021176	<b>ŢŢŢ</b>	ŢŢŢ	Ø	max.
		mm	mm	bar	t
Y28-180	-036408	470	300	525	15
Y38-180	-037498	520	420	580	25
Y58-180	-038488	660	540	405	45

# Internal extractors

For extracting inner bearings, bearing outer rings and bushings.

<u>hydraulic</u>



# Description

Mechanical pressure screw.

Milled thread treated with special coating.

# Advantage

The 2-shell design with extra large grasp edges ensures safe extraction.

KUKKO internal extractors can be combined with counter supports and slide hammers.

Art No.	4021176		<b>L</b> ∣←──→	max.
		mm	mm	t
Y-221-E	-040856	30 - 180	140	15
Y-321-E	-042836	75 - 230	150	20
Y-521-E	-044656	75 - 230	150	25

# Separators for hydraulic push/pull devices



Art No.	4021176			max.
		mm	mm	t
Y-215-2	-172106	22 - 115	115	15
Y-215-3	-039546	25 - 155	152	15
Y-215-4	-385629	30 - 200	200	15
Y-315-4	-398186	30 - 200	200	20
Y-315-5	-041501	30 - 250	250	20
Y-515-5	-400063	30 - 250	250	30
Y-515-6	-043581	75 - 330	330	30
Y-515-7	-172281	80 - 420	420	30

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# Hydraulic push/pull device sets

For separation and internal extraction of particularly large and tight bearings, gears, discs, etc. in industry and commercial vehicles.

# 

# Description

- Large range for use in industry, commercial vehicles and farm machinery.
- Hydraulic hollow ram.
- Hydraulic hand pump, gauge and hoses.
  - Separator blade.
- Internal extractor.

# Advantage

- Arranged and space-efficient custody in the metal case.
- Almost all components available as replacement parts, time-saving order process thanks to numbering system.

	Art No.	4021176	<u>†</u> <u> </u>	<b>†††</b>			┝╈┥	7	ŧ
			mm	mm	mm	mm	t	t	t
Y	28-218	-036651	135 - 300	470	25 - 155	30 - 180	15	15	10
Y:	38-318	-037641	180 - 420	520	30 - 250	75 - 230	25	20	20
Y!	58-518	-038891	235 - 540	660	75 - 330	75 - 230	35	30	25

# Accessories for hydraulic pulling devices

For use with pullers in the KUKKO line of hydraulic products.





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- The KUKKO product range includes high-pressure hydraulic hand pumps, pressure gauges and hoses, as well as various connections and adapters that are designed for durability and ease of use. The entire series is also equipped with various safety features that provide reliable performance and occupational safety.
- Almost all components available as replacement parts, time-saving order process thanks to numbering system.

Art No.	4021176	Bezeichnung description	max. t	CONSIDERAR CONSIDERAR
Y218-03	-039706	Traverse / Cross-beam	20	Y28-180, Y20-180
Y218-04	-529818	Befestigungsmaterial für 1 Paar Zugbolzen / Fastening material kit for 1 pair of tension bolts	20	Y28-180, Y20-180
Y218-06-P	-056420	Paar Zugbolzen / bolts, pair: 240 mm	20	Y28-180, Y20-180
Y218-07-P	-056437	Paar Zugbolzen / bolts, pair: 420 mm	20	Y28-180, Y20-180
Y218-08-P	-056444	Paar Zugbolzen / bolts, pair: 570 mm	20	Y28-180, Y20-180
Y218-09-P	-218095	Paar Stützmuttern für Zugbolzen / Pair of support nuts for tension bolts	20	Y28-180, Y20-180
Y218-12-P	-097157	Paar Zugbolzen / bolts, pair: 115 mm	20	Y28-180, Y20-180
Y218-31-P	-218316	Paar Verbinder für Zugbolzen / Pair of connectors for tension bolts	20	Y28-180, Y20-180
Y218-33	-040771	Schnellverstellmutter / Quick-adjust nuts	20	Y28-180, Y20-180
Y318-03	-041686	Traverse / Cross-beam	30	Y38-180, Y30-180
Y318-04	-318047	Befestigungsmaterial für 1 Paar Zugbolzen / Fastening material kit for 1 pair of tension bolts	30	Y38-180, Y30-180
Y318-36-P	-056338	Paar Zugbolzen / bolts, pair: 205 mm	30	Y38-180, Y30-180
Y318-33	-042188	Schnellverstellmutter / Quick-adjust nuts	30	Y38-180, Y30-180
Y318-37-P	-305863	Paar Zugbolzen / bolts, pair: 460 mm	30	Y38-180, Y30-180
Y318-38-P	-056345	Paar Zugbolzen / bolts, pair: 710 mm	30	Y38-180, Y30-180
Y318-39-P	-318399	Paar Stützmuttern für Zugbolzen / Pair of support nuts for tension bolts	30	Y38-180, Y30-180
Y318-41-P	-318412	Paar Verbinder für Zugbolzen / Pair of connectors for tension bolts	30	Y38-180, Y30-180
Y518-03	-043826	Traverse / Cross-beam	50	Y58-180, Y50-180
Y518-07-P	-056468	Paar Zugbolzen / bolts, pair: 610 mm	50	Y58-180, Y50-180
Y518-08-P	-056475	Paar Zugbolzen / bolts, pair: 865 mm	50	Y58-180, Y50-180
Y518-09-P	-518096	Paar Stützmuttern für Zugbolzen / Pair of support nuts for tension bolts	50	Y58-180, Y50-180
Y518-31-P	-518317	Paar Verbinder für Zugbolzen / Pair of connectors for tension bolts	50	Y58-180, Y50-180
Y518-33	-044571	Schnellverstellmutter / Quick-adjust nuts	50	Y58-180, Y50-180

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# Step plate adapter sets for center-bored parts





Art No.	4021176	Ø	Bezeichnung description
Y-18-17	-235078	20-62	12-teilig
Y-19-17	-235153	33-81	12-teilig
Y-20-17	-235238	55-88	6-teilig
Y-01-17	-233173	20-23	einzeln
Y-02-17	-233258	23-26	einzeln
Y-03-17	-233333	26-30	einzeln
Y-04-17	-233418	29-33	einzeln
Y-05-17	-233586	33-39	einzeln
Y-06-17	-233661	36-42	einzeln
Y-07-17	-233746	39-46	einzeln
Y-08-17	-233821	42-48	einzeln
Y-09-17	-233906	45-52	einzeln
Y-10-17	-234163	49-58	einzeln
Y-11-17	-234248	51-62	einzeln
Y-12-17	-234408	55-65	einzeln
Y-13-17	-234576	58-68	einzeln
Y-14-17	-234651	61-71	einzeln
Y-15-17	-234736	65-74	einzeln
Y-16-17	-234811	71-81	einzeln
Y-17-17	-234996	77-88	einzeln

# Push/pulling device (without hydraulic hollow ram for pump drive)

For removing particularly large and tight bearings, gears, discs, etc. using separator blades and internal extractors.

Advantage

Description

occupational safety.

ring system.

Easy and even pulling for particularly tight parts.

Almost all components available as replacement parts, time-saving order process thanks to numbering system.

Art No.	4021176	<b>†††</b> <u>†</u>	<b>†††</b>	max.	für for
		mm	mm	t	
Y20-180	-036323	470	135 - 300	15	KUKKO, Enerpac, OTC, Powerteam, NIKE
Y30-180	-037313	520	180 - 420	25	KUKKO, Enerpac, OTC, Powerteam, NIKE
Y50-180	-038303	660	235 - 540	35	KUKKO, Enerpac, OTC, Powerteam, NIKE

The KUKKO product range includes high-pressure hydraulic hand pumps, pressure gauges and hoses, as well as various connections and adapters that are designed for durability and ease of use. The entire series is also equipped with various safety features that provide reliable performance and

Almost all components available as replacement parts, time-saving order process thanks to numbe-

# Accessories for hollow rams

For use with pullers in the KUKKO line of hydraulic products.



www.KUKKO.com





Art No.	4021176	Bezeichnung description	max. t	KOMBIN EREAR
Y218-10	-040368	Handkurbel / Crank	20	YRH-202
Y218-11	-040443	Mittelspindel / Mechanical screw	20	YRH-202
Y318-10	-041761	Handkurbel / Crank	30	YRH-302
Y318-11	-041846	Mittelspindel / Mechanical screw	30	YRH-302
Y518-10	-044243	Handkurbel / Crank	50	YRH-603
Y518-11	-044328	Mittelspindel / Mechanical screw	50	YRH-603



# For use with the KUKKO hydraulics range.



# Description

- Use as pull- and pressure cylinder.
  - Single-acting with spring return.
- Complete with threaded pressure piece.
- Manufactured from high-strength, alloyed steel
- All models have a CR-400 coupler and dust cap. .

# Advantage

- External threads on cylinder head, piston-rod internal threads and mounting threads on the cylinder bottom enable easy assembly (applies to most models).
- Preloaded return spring reduces the entry speed and thus improves performance.
- The radial shaft seal removes impurities on the piston and extends the service life of the cylinder.

Art No.	<b>                                   </b>		max.
		mm	t
YRH-202	-046711	50	20
YRH-206	-870934	150	20
YRH-302	-046896	63	30
YRH-603	-046971	75	50

# Hydraulic cylinder rams with collar threads

Developed for use in all situations



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- Encloses the seal of models with longer hub length, for longer service life and lower storage load.
- Manufactured from high-strength, alloyed steel
- All models have a CR-400 coupler and dust cap.

•

- Advantage

  Developed for use in all situations.
- External threads on cylinder head, piston-rod internal threads and mounting threads on the cylinder bottom enable easy assembly (applies to most models).
- Preloaded return spring reduces the entry speed and thus improves performance.
- The radial shaft seal removes impurities on the piston and extends the service life of the cylinder.

Art No.	4021176l	mm		max. t
YRE-050	-046551	125	1 1/2" - 16 UN	5
YRE-101	-870927	250	2 1/4" - 14 UNS	10
YRE-102	-160660	250	2 1/4" - 14 UNS	10

# Lift cylinder

For use where other cylinders are too big.



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# Description

- Pistons made of hard chrome high quality steel
- All models have a CR-400 coupler and dust cap.

# Advantage

- Mounting holes make assembly easy.
- Grooved piston ends mean pressure pads are not needed.
- Preloaded return spring reduces the entry speed and thus improves performance.
- The radial shaft seal removes impurities on the piston and extends the service life of the cylinder.

Art No.	4021176		max.				
		mm	t	mm	mm	mm	
YSM-100	-101007	12	10	82	55	43	
YSM-200	-102004	11	20	101	76	51	

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Pressure pads for hollow rams						НҮ	
YDB			Art No.		4021176	max.	
	ear:					t	
STATISTICS IN THE REAL PROPERTY OF		YDB-27E			-400223	20	
		YDB-33E			-400308	30	
		YDB-55E			-400483	50	
		YDG-20E			-399091	20	
		YDG-30E			-399176	30	
		YDG-50E			-399251	50	
		YDM-20E			-414183	20	
		YDM-30E			-414268	30	
		YDM-50E			-414343	50	
Pressure pads for hollow rams						НҮ	
YDG			Art No.		4021176	max.	
						t	
		YDG-20E			-399091	20	
		YDG-30E			-399176	30	
		YDG-50E			-399251	50	
						1	
Pressure pads for hollow rams		YDM-20E YDM-30E YDM-50E	Art No.		-414183 -414268 -414343	max. t 20 30 50	
		Art No.			4021176	für for	
		YCH-604			-440731	Schlauch / hose	
		YCR-400			-201318	Zylinder / ram	
Mounting for hydraulic cylinder			1	1		НҮ	
0		Art No. 14021176		für for			
		Y200-00	-507724	YRH-202	256, GOLIATH-556, GO GOLIATH-318, GOLIAT		
		Y300-00	-507748	YRH-302	Y38-180, Y38-205, Y38-206, Y38-300, Y38-318, Y38- 356, GOLIATH-556, GOLIATH-256, GOLIATH-518, GOLIATH-218, GOLIATH-200, GOLIATH-500		
		Y500-00         -507755         YRH-603         Y58-180, Y58-205, Y58-206, Y58-			DLIATH-256, GOLIATH-318,		

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# **Mobile hydraulic puller 20-50 t** Mobiler Hydraulik-Abzieher 20-50 t

**GOLIATH** is the first mobile KUKKO puller for heavy industry, railways, power plants and other applications where large bearings, gear wheels or similar parts must be dismounted. With a pulling force of 50 tonnes, it is ideal for really big pulling jobs. The puller can be used with two or three arms. An accessory separator fixture can also be fitted quickly and easily. The central pressure spindle of the GOLIATH puller can be attached to the part to be pulled very easily and precisely thanks to the combination of hydraulic height adjustment and mechanical fine adjustment. The puller can be positioned easily and conveniently by one person using the Y-shaped mobile support frame with four easy-rolling, lockable castors, which also ensures stable placement for all applications.

The pulling force is applied by a pressure cylinder equipped with a central pressure spindle, which is actuated by a two-stage electrically driven hydraulic pump with remote motor control. This avoids exposing users to the risk of injury from flying parts. The GOLIATH puller also sets standards with other safety features. For example, a mechanical safety device and additional hydraulic valves allow the puller height to be adjusted and ensure safe operation even under extremely high stress.

Der **GOLIATH** ist der erste mobile KUKKO-Abzieher für Schwerindustrie, Eisenbahn, Kraftwerke und andere Anwendungen bei denen große Lager, Zahnräder und ähnliche Teile demontiert werden müssen. Mit einer Abziehkraft von bis zu 50 t ist er die Lösung für wirklich große Abziehvorgänge.

Der Abzieher kann 2- oder 3-armig eingesetzt werden. Auch eine separat erhältliche Trennvorrichtung kann einfach und schnell montiert werden. Der GOLIATH kann durch die hydraulische Höhenverstellung und in Kombination mit der mechanischen Feineinstellung, über die zentrale Druckspindel sehr einfach und präzise von nur einer Person an dem abzuziehenden Teil angesetzt werden. Das Y-förmige fahrbare Trägergestell mit den 4 Leichtlaufrollen, inklusive Feststellmöglichkeit, ermöglicht die einfache und komfortable Anbringung des Abziehers und garantiert einen sicheren Stand bei allen Anwendungen.

Das Aufbringen der Abziehkraft auf den mit einer zentralen Druckspindel ausgestatteten Druckzylinder erfolgt durch eine zweistufige Elektro-Hydraulikpumpe, welche mittels Motorfernbedienung bedient wird. Der Anwender wird so nicht der Verletzungsgefahr durch evtl. abspringende Teile ausgesetzt. Einen zusätzlichen Schutz bietet dabei auch die Unfallschutzplane, welche den Abzieher beim Abziehvorgang umhüllt. Auch in weiteren Sicherheitsmerkmalen setzt der GOLIATH Maßstäbe. So gewährleisten eine mechanische Sicherung und zusätzliche Hydraulikventile eine Höhenverstellung des Abziehers und ein sicheres Arbeiten, selbst unter höchster Belastung.

Art No.	4021176	Ţ	Ţ				max.	4	$\Delta^{\dagger}\Delta$
		mm	inch	mm	inch		t	Volt	kg
GOLIATH-256	102714	500	<b>19</b> <sup>11</sup> / <sub>16</sub>	300	11 <sup>13</sup> / <sub>16</sub>	400-1000	20	230	234
GOLIATH-356	102752	900	<b>35</b> <sup>7</sup> / <sub>16</sub>	520	<b>20</b> <sup>15</sup> / <sub>32</sub>	400-1000	30	230	257
GOLIATH-556	102783	1200	<b>47</b> <sup>1</sup> / <sub>4</sub>	700	<b>27</b> <sup>9</sup> / <sub>16</sub>	400-1000	50	230	328

# PULLING INSTRUCTION / ABZIEHANLEITUNG

# 1. Preparing / Vorbereitung



The puller can be moved by a crane using the provided mounting eyelets. Durch die vorhandenen Aufhängungs-ösen kann der Abzieher mit Hilfe von Kransystemen bewegt werden.



Close the shut-off valve before operating the hand pump.

Das Absperrventil muss vor Betätigung der Handpumpe geschlossen werden.



Use the hand pump to raise the puller to the necessary height.

Durch Betätigen der Handpumpe wird die Abziehvorrichtung auf die erforderliche Höhe gebracht.


Fit the pulling hooks to the part to be pulled.

Die Abzughaken müssen am abzuziehenden Teil angebracht werden.



Place the pulling hooks on the part to be pulled and secure them with a wrench. Ensure that they are properly fitted and make uniform contact.

Die Abzughaken an das abzuziehende Teil anlegen und mit einem Schraubenschlüssel festziehen. Auf den richtigen Sitz und ein gleichmäßiges Anliegen der Haken achten!



Fit the hand crank on the square end of the spindle. Then turn the crank until the spindle is centered and pretensioned hand-tight.

Die Handkurbel wird auf den Vierkant der Spindel gesteckt. Dann wird die Spindel mit der Handkurbel zentriert und handfest vorgespannt.

## 2. Safety protection / Sicherung



The spindle must be centered and pre-tensioned hand-tight using the hand crank.

Die Spindel muss mit Hilfe der Handkurbel zentriert und handfest vorgespannt werden.



Completely surround the puller with a protective tarp (UFP-3).

Die Abziehvorrichtung komplett mit Schutzplane (UFP-3 )umhüllen.



Keep a safe distance away during the removal process. If possible, leave the hazard area. Always wear protective goggles. (This applies to all people in the area. Danger from breakage and splinters!)

Maximalen Schutzabstand während des Abziehvorgangs einnehmen. Gefahrenzone möglichst verlassen. Unbedingt eine Schutzbrille tragen. (Gilt für alle Personen im Raum / Bruch- und Splittergefahr!)

## 3. Durchführung / Performance



Plug the power cable of the GOLIATH puller into a 230-V electrical outlet. Den GOLIATH mit dem Netzkabel an eine 230 Volt Stromguelle anschließen.



Put the power switch in the On (I) position.

Netzschalter auf Ein=I stellen.



A pressure gauge can be fitted to check the applied pulling force. Zum kontrollierten Aufbringen der Abziehkraft ist ein Manometer angebracht.





Close the shut-off valve for starting the pulling process.

Das Absperrventil muss auf "zu" gestellt werden um den Abziehvorgang zu starten.



Start the pulling process with the remote control unit.

Den Abziehvorgang mit der Fernbedienung starten.



The pulling process. Der Abziehvorgang.



After completion of the pulling process, open the shut-off valve. The spindle retracts automatically.

Nach Beendigung des Abziehvorgangs das Absperrventil in Position "Auf" bringen. Die Spindel fährt automatisch zurück.



Step on the foot pedal while opening the shut-off valve of the hand pump. Das Fußpedal treten und dabei gleich-

zeitig das Absperrventil der Handpumpe öffnen.



The puller returns to the initial position. Der Abzieher fährt auf die Ausgangspositon zurück.





Attention! Wear eyeprotection and safety shoes! Wichtig! Schutzbrille und Sicherheitsschuhe tragen!



#### **Attention! Safety first!**

For additional protection, we recommend wrapping a KUKKO UFP-3 accident prevention tarp around the puller and the part to be pulled.

#### Achtung! Safety first!

Als zusätzlicher Schutz wird die KUKKO Unfallschutzplane **UFP-3** empfohlen, die über den Abzieher und das abzuziehende Teil gespannt wird.

#### Mobile hydraulic puller "GOLIATH

# Mobile KUKKO puller for heavy industry, railways, power plants and other applications where large bearings, gear wheels or similar parts must be dismounted. Description

- . With a pulling force of up to 50 tonnes, it is ideal for really big pulling jobs. The central pressure spindle of the GOLIATH puller can be attached to the part to be pulled very easily and precisely by just one person thanks to the combination of hydraulic height adjustment and mechanical fine adjustment.
- The puller can be positioned easily and conveniently using the Y-shaped mobile support frame with four easy-rolling, lockable castors, which also ensures stable placement for all applications.
- The pulling force is applied by a cylinder ram equipped with a central pressure spindle, which is actuated by a two-stage, electrically-driven hydraulic pump with remote motor control.
- This avoids exposing users to the risk of injury from flying parts.

#### Advantage

- The puller can be used with 2 or 3 jaws.
- An accessory separator fixture can be fitted quickly and easily.
- Modular system can be expanded with other extractor types.
- Almost all components available as replacement parts, time-saving order process thanks to numbering system.

Art No.	4021176	Ţ		max.	4
		mm	mm	t	Volt
GOLIATH-256	-102714	500	300	20	230
GOLIATH-356	-102752	900	520	30	230
GOLIATH-556	-102783	1200	700	50	230

#### Mobile hydraulic separator "GOLIATH" and hydraulic puller

hydraulic

Mobile KUKKO puller for heavy industry, railways, power plants, and other applications requiring the removal of large bearings, gear wheels, or similar parts.

Description

- With a pulling force of up to 50 tonnes, it is ideal for really big pulling jobs.
- The central pressure spindle of the GOLIATH puller can be attached to the part to be pulled very easily and precisely by just one person thanks to the combination of hydraulic height adjustment and mechanical fine adjustment.
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- The pulling force is applied by a cylinder ram equipped with a central pressure spindle, which is actuated by a two-stage, electrically-driven hydraulic pump with remote motor control.
- This avoids exposing users to the risk of injury from flying parts.



#### Advantage

- The model is equipped with a separator, but can also be combined with hydraulic systems. Modular system can be expanded with other extractor types.
- Almost all components available as replacement parts, time-saving order process thanks to numbering system.

Art No		Ţ		Ħ	<b>†††</b>		max. t	┝╋┥		4
		mm	mm	mm	mm	mm	t	t	t	Volt
GOLIAT	H-200	500	300	135-300	300	25 - 155	20	15	15	230
GOLIAT	H-300	900	520	180-420	520	30 - 250	30	25	20	230
GOLIAT	H-500	1200	700	180-420	520	75 - 330	50	35	30	230

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#### Mobile hydraulic separator "GOLIATH

Mobile KUKKO puller for heavy industry, railways, power plants, and other applications requiring the removal of large bearings, gear wheels, or similar parts.

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Art No.	4021176	<u>†</u> ††	<b>†††</b> <u>]</u>		max.	4
		mm	mm	mm	t	Volt
GOLIATH-218	-102707	135-300	300	25 - 155	15	230
GOLIATH-318	-102745	180-420	520	30 - 250	20	230
GOLIATH-518	-102776	180-420	520	75 - 330	30	230

#### **David extraction cart**



hydraulic

Des	cription
	The C

- The DAVID workshop system is designed for use with a variety of tools.
- Workshop trolley also suitable for individual use when uncoupled from the work unit.
- Can be equipped with up to three of the popular KUKKO WT workshop wall panels.
- Continuous height adjustment of 500 to 1000 mm with self-locking lifting spindle, adjustable pivot angle.
- Extendable tool tray.

#### Advantage

- Available anywhere anytime in your workshop thanks to the mobility of the workshop trolley.
- Individual assembly of components for your workshop system.
- Safe operations.
- Supports easy installation of the puller.
- Ergonomic design ensures easy handling with heavy pullers and components.

Art No.	4021176	L ∣←→∣	н <u>⊺</u>	B	B2		, <b>1</b>
		mm	mm	mm	mm	mm	mm
David-0	-140617	1250	1360	730	550	500	630

#### Protective blankets for extraction jobs



- For disassembly and extraction jobs, the application of greater force is often necessary. It can happen that whole parts abruptly detach themselves, that parts break, disassemble themselves and debris starts flying around uncontrollably. To prevent these potential risks of an accident, KUKKO accident protection tarps can be used to safely enclose workpieces and tools before any force is applied.
- Highly elastic, tear-resistant and oil-resistant material.
- Protective blankets are delivered for careful storage in the Sortimo case.

#### Advantage

The transparent blanket enables close observation, control and monitoring of all removal processes safely while working

Art No.	4021176	∏ i↓↓ mm	<u>Ţ</u> mm	
UFP-1	-445118	1100	500	L-Boxx
UFP-2	-445293	1500	670	L-Boxx
UFP-3	-445378	4000	1300	L-Boxx



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#### Hydraulic external puller sets

For removal of particularly large and tight bearings, gears, discs, etc. in industry and commercial vehicles.



ring system	ring system.										
Art No.	4021176	Ţ		max. t	max. t						
		mm	mm	t	t						
Y28-256	-036811	280 - 500	300	15	20						
Y38-356	-037801	330 - 900	520	25	30						
Y58-556	-038631	460 - 1200	700	45	50						

Almost all components available as replacement parts, time-saving order process thanks to numbe-

#### Hydraulic push/pull device sets

For separation and internal extraction of particularly large and tight bearings, gears, discs, etc. in industry and commercial vehicles.

Description

Large range for use in industry, commercial vehicles and farm machinery.

Large range for use in industry, commercial vehicles and farm machinery.

- Hydraulic hollow ram.
- Hydraulic hand pump, gauge and hoses.
- Separator blade.
- Internal extractor.

#### Advantage

Description

Advantage

Hydraulic hollow ram.

2- and 3-jaw pullers.

Hydraulic hand pump, gauge and hoses.

Arranged and space-efficient custody in the metal case.

Arranged and space-efficient custody in the metal case.

Almost all components available as replacement parts, time-saving order process thanks to numbering system.

Art No.	4021176			mm	mm	<b>₩</b>	Ť	t
Y28-218	-036651	135-300	470	25 - 155	30 - 180	15	15	10
Y38-318	-037641	180-420	520	30 - 250	75 - 230	25	20	20
Y58-518	-038891	235-540	660	75 - 330	75 - 230	35	30	25

#### Universal hydraulic gear and bearing puller set

hydraulic

For removal, separation and internal extraction of particularly large and tight bearings, gears, discs, etc. in industry and commercial vehicles.

#### Description

- Large range for use in industry, commercial vehicles and farm machinery.
- Hydraulic hollow ram.
- Hydraulic hand pump, gauge and hoses.
- 2- and 3-jaw pullers.
- Separator blade.



#### Advantage

Arranged and space-efficient custody in the metal case.

Almost all components available as replacement parts, time-saving order process thanks to numbering system.

Art No.	mm	Ħ mm	<b>†</b> mm	<b>†††</b> mm	mm	mm	t t	t		t t	t
Y28-200	280-500	300	300	300	25 - 155	30-180	15	20	15	15	10
Y38-300	330-900	520	300	300	30-250	75 - 230	25	30	25	20	20
Y58-500	460 - 1200	700	540	400	75-330	75-230	45	50	35	30	25







## Display

For optimal display of KUKKO tools in your business.

## 🖤 Wall panel

For the clean and orderly storage of **KUKKO** various KUKKO pullers in your workshop.

## Workshop tool trolley

that can be combined with drawers for the proven KUKKO L-BOXX system



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A world **in motion** since 1919!

W.KUK

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# Workshop equipment Werkstatt-Ausrüstung

# 12

Merchandiser Verkaufswand	
Wall panels Wandtafeln	
K-Cube K-Cube	



For optimal display of KUKKO tools in your business.



#### Description

More information about the products on this wall is provided on our website in the field "+ content. Illuminated display.

#### Advantage

- The combination of tools is based on many years of user experience in various industries.
   KUKKO supports the setup and training of your employees on the various products and p
  - KUKKO supports the setup and training of your employees on the various products and pulling principles. Contact us for an individual consult.
- Labeling ensures simple replenishment of all distributed products.
- Complete easy-to-manage package.

Art	₩₩₩₩₩₩
No.	#021176
EVLW-1-INDUSTRIE	-487842

ST

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#### Merchandiser, automotiv pullers

For optimal display of KUKKO tools in your business.



#### Description

More information about the products on this wall is provided on our website in the field "+ content. Illuminated display.

#### Advantage

- The combination of tools is based on many years of user experience in various industries.
  - KUKKO supports the setup and training of your employees on the various products and pulling principles. Contact us for an individual consult.
- Labeling ensures simple replenishment of all distributed products.
  - Complete easy-to-manage package.

Art No.	
EVLW-1-KFZ	-487866

#### Merchandiser, automotive pullers / commercial vehicle / agricultural machinery

For optimal display of KUKKO tools in your business.



#### Description

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- More information about the products on this wall is provided on our website in the field "+ content.
- Illuminated display.

#### Advantage

- The combination of tools is based on many years of user experience in various industries.
  - KUKKO supports the setup and training of your employees on the various products and pulling principles. Contact us for an individual consult.
  - Labeling ensures simple replenishment of all distributed products.
  - Complete easy-to-manage package.

Art No.	<b>                                    </b>
EVLW-1-NFZ	-487873



Puller product range - commercial vehic									ST	
For clean and orderly storage of various KUKKO produ	icts in your workshop	o. Description								
		The com	bination of tools prmation about t						⊦ content.	
		<ul> <li>Advantage <ul> <li>Complete easy-to-manage package.</li> <li>Central access to products for every employee in the workshop.</li> <li>Appreciate the KUKKO modular principle and combine the various types of pullers "Made in Germany".</li> </ul> </li> </ul>								
<b>文語</b>		Art No.	4021176	r t		<b>Ŋ</b> <u>Ī</u> ım	mm	max. t	Stück pieces	
	in stat	WT-008	-890604	200	150	- 200 2	2 - 115	10	11	
Puller product range - commercial vehic For clean and orderly storage of various KUKKO produced		Description • The tools	are compiled es					in the Cold "	ST	
T		Advantage • Complete • Central a	ormation about t e easy-to-manag ccess to product te the KUKKO mo	e package. s for every em	nployee in the	e workshop.				
<b>NIT</b> PP		Art No.	4021176	<u>الم</u>	Ē		Ð	max.	Stück pieces	
				mm	mm	mm	mm	t		
		WT-010	-890628	mm 250	mm 200	mm 22 - 115	mm 36 - 40	t 8	10	
ARMOCK QUICK SUMME OF THE POINT		Description The com More info Advantage Complet	-890628 bination of tools ormation about t e easy-to-manag ccess to product	250 is based on n the products of re package.	200 nany years of on this wall is	22 - 115 user experie	36 - 40 ence in various	8 s industries.	ST	
Puller product range - automotive - axle		Description The com More info Advantage Complet	bination of tools ormation about t e easy-to-manag ccess to product	250 is based on n the products of re package.	200 nany years of on this wall is	22 - 115 user experie	36 - 40 ence in various	8 s industries. in the field "-	ST	
Puller product range - automotive - axle		D. Description • The com • More info Advantage • Complet • Central a	bination of tools prmation about t e easy-to-manag ccess to product	250 is based on n the products of pe package. s for every en	200 nany years of on this wall is nployee in th	22 - 115 user experie provided or e workshop.	36 - 40	8 s industries. in the field "- Si pi	ST ⊦ content. tück	
Puller product range - automotive - axle For clean and orderly storage of various KUKKO product Puller product range - commercial vehic	ctes - axle	<ul> <li>Description</li> <li>The com</li> <li>More info</li> <li>Advantage</li> <li>Complet</li> <li>Central a</li> <li>Art No.</li> <li>WT-030</li> </ul>	bination of tools prmation about t e easy-to-manag ccess to product	250 is based on n the products of pe package. s for every en	200 nany years of on this wall is nployee in th	22 - 115 user experie provided or e workshop.	36 - 40 ence in various nour website i	8 s industries. in the field "- Si pi	ST + content. tück eces	
Puller product range - automotive - axle For clean and orderly storage of various KUKKO production Production in the storage of various in the stora	ctes - axle	<ul> <li>Description</li> <li>The com</li> <li>More info</li> <li>Advantage</li> <li>Complet</li> <li>Central a</li> <li>Art No.</li> <li>WT-030</li> <li>Description</li> </ul>	bination of tools ormation about t e easy-to-manag ccess to product	250 is based on n the products of re package. s for every en	200 nany years of on this wall is nployee in th ployee in th 25 - 15.	22 - 115 user experie provided or e workshop. 5	36 - 40 ence in various nour website mm 56 - 110	8 s industries. in the field "- St pi	ST + content. tück eces 6	
Puller product range - automotive - axle For clean and orderly storage of various KUKKO product Puller product range - commercial vehic	ctes - axle	<ul> <li>Description         <ul> <li>The com</li> <li>The com</li> <li>More info</li> </ul> </li> <li>Advantage         <ul> <li>Complet</li> <li>Central a</li> </ul> </li> <li>Art         <ul> <li>No.</li> </ul> </li> <li>WT-030</li> <li>Description         <ul> <li>The com</li> <li>The com</li> </ul> </li> </ul>	bination of tools prmation about t e easy-to-manag ccess to product	250 is based on n the products of re package. s for every en	200 nany years of on this wall is nployee in th ployee in th 25 - 15.	22 - 115 user experie provided or e workshop. 5	36 - 40 ence in various nour website i mm 56 - 110	8 s industries. in the field "- Sf pi	ST + content. tück eces 6 ST	
Puller product range - automotive - axle For clean and orderly storage of various KUKKO product Puller product range - commercial vehic	ctes - axle	<ul> <li>Description</li> <li>The com</li> <li>More info</li> <li>Advantage</li> <li>Complet</li> <li>Central a</li> <li>ArtNo.</li> <li>WT-030</li> <li>Description</li> <li>The com</li> <li>More info</li> <li>Advantage</li> <li>Complet</li> <li>Complet</li> </ul>	bination of tools prmation about t e easy-to-manag ccess to product 	250 is based on n the products of package. is for every en is based on n the products of is based on n the products of the products o	200 hany years of pon this wall is hployee in th 25 - 15 hany years of pon this wall is	22 - 115	36 - 40 ence in various nour website i mm 56 - 110 ence in various nour website i	8 s industries. in the field "- Sf pi	ST + content. tück eces 6 ST	
<section-header><table-row>         Image: State of the state o</table-row></section-header>	ctes - axle	<ul> <li>Description</li> <li>The com</li> <li>More info</li> <li>Advantage</li> <li>Complet</li> <li>Central a</li> <li>ArtNo.</li> <li>WT-030</li> <li>Description</li> <li>The com</li> <li>More info</li> <li>Advantage</li> <li>Complet</li> <li>Complet</li> </ul>	bination of tools prmation about t e easy-to-manag ccess to product 	250 is based on n the products of package. is for every en is based on n the products of is based on n the products of the products o	200 hany years of pon this wall is hployee in th 25 - 15 hany years of pon this wall is	22 - 115	36 - 40 ence in various nour website i mm 56 - 110 ence in various nour website i	s industries. in the field "- Si pi s industries. in the field "-	ST + content. tück eces 6 ST	



## Puller product range - interior pulling - BASIC

For clean and orderly storage of various KUKKO products in your workshop.

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#### Complete easy-to-manage package. Central access to products for every employee in the workshop. (1) Art.max. Stück 4021176 I (!) Ī No. pieces mm mm mm mm mm t

72 - 133

55 - 100

120 - 165

4

19

ST

The combination of tools is based on many years of user experience in various industries. More information about the products on this wall is provided on our website in the field "+ content.

Puller product range - interior pulling - TOP



Description

Advantage

WT-017

-141478

12 - 70

25-85

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- The combination of tools is based on many years of user experience in various industries. More information about the products on this wall is provided on our website in the field "+ content.
- Complete easy-to-manage package. Central access to products for every employee in the workshop. Stück Art.max. Ī No. pieces mm mm mm mm mm mm t WT-018 -141485 60 - 160 50 - 150 12 - 70 25 - 85 55 - 100 120 - 165 4 15

Puller product range - separating         For clean and orderly storage of various KUKKO prod	lucts in your worksho	Description • The co	mbination of							ST
		ete easy-to-n l access to pro			ee in the w	orkshop.	+++			
++++++++++++++++++++++++++++++++++++++		Art No.	4021176	Ē	<u>ן</u> ון	<b>     </b> <u>†</u>			max.	Stück pieces
	Real Contraction			mm	mm	mm	mm	mm	t	
an parameter an an an an an an an an an an an an an	回游理	WT-019	-141492	50 - 95	70 - 170	122 -	12 - 155	200	5	6
Puller product range - automotive - ch	assis suspensio	n								ST
For clean and orderly storage of various KUKKO prod	ucts in your workshop									
			mbination of nformation at				•			content.





#### Advantage Complete easy-to-manage package.

Central access to products for every employee in the workshop.

	Art No.	4021176	mm'	mm mm	Г. mm	t <b>Ja</b> mm	t <b>æ</b> mm	Stück pieces
W	T-014	-890635	95	170	18 - 40	50	85	10

ST



Art No.	4021176		∏ ↓ ↓ ↓ mm	<u></u> ∏ mm	mm	
K-CubeBoxx	-909986	4	620	1035	560	

## Pulling jaws, series 20 and 30

							Ī	
Series	Dimensions of the puller jaws	A mm	B mm	C mm	D mm	E mm	J⊥ mm	
20		3,0	20	15	31	10	100	
20+ 30	C + + A E → A	4,0	24	18	40	9	150	
30+	$  \underbrace{\bullet}_{B}   \underbrace{\bullet}_{D}   \underbrace{\bullet}_{D}   \underbrace{\bullet}_{B}   \underbrace{\bullet}_{D}   \underbrace{\bullet}_{D$	4,0	35	37	67	20	200	
		3,0	20	15	31	10	200	
		3,0	20	15	31	10	250	
20 20+		4,0	24	18	40	9	300	
30 30+	$  \longrightarrow D  ^{\uparrow}$	4,0	35	37	67	20	300	
		4,0	35	37	67	20	400	
		4,0	35	37	67	20	500	
20-S		2,6	30	7	14	-	100	
20+S 30-S		4,0	32	8	19	-	150	
30+S		6,5	35	17	52	-	200	
		2,6	30	7	14	-	200	
20-S		2,6	30	7	14	-	250	
20+S		4,0	32	8	19	-	300	
30-S 30+S	$ \begin{array}{ c c c c } \hline \\ \hline \\ \hline \\ \hline \\ \hline \\ \hline \\ \hline \\ \hline \\ \hline \\ \hline $	6,5	35	17	40	-	300	
		6,5	35	17	40	-	400	
		6,5	35	17	40	-	500	
20-S-T 20+S-T 30-S-T 30+S-T	$ \begin{array}{ c c } \hline \\ \hline \\ \hline \\ \hline \\ \hline \\ \hline \\ \hline \\ \hline \\ \hline \\ \hline $	3,0	24	7	12	15	100	
20-S-T 20+S-T		3,0	24	7	12	15	200	
30-S-T 30+S-T	$ \begin{array}{ c c } \hline \\ \hline \\ \hline \\ \hline \\ \hline \\ \hline \\ \hline \\ \hline \\ \hline \\ \hline $	3,0	24	7	12	15	250	

	QUICK adjust	suitable for		QUICK adjust	suitable for
ArtNo.	ArtNo.		ArtNo.	ArtNo.	
Pair	Pair	KUKKO-pullers:	Set	Set	KUKKO-pullers:
1-90-P	1-92-P	20-1; 20-10	1-90-S	1-92-S	30-1; 30-10
2-150-Р	2-152-P	20-2; 20-20	2-150-S	2-152-S	30-2; 30-20
3-200-P	3-202-P	20-3; 20-30; 20-4; 20-40	3-200-S	3-202-S	30-3; 30-30; 30-4; 30-40
1-190-P	1-192-P	20-1; 20-10	1-190-S	1-192-S	30-1; 30-10
1-250-P	1-252-P	20-1; 20-10	1-250-S	1-252-S	30-1; 30-10
2-300-Р	2-302-P	20-2; 20-20	2-300-S	2-302-5	30-2; 30-20
3-300-P	3-302-P	20-3; 20-30; 20-4; 20-40	3-300-S	3-302-5	30-3; 30-30; 30-4; 30-40
3-400-Р	3-402-Р	20-3; 20-30; 20-4; 20-40	3-400-S	3-402-S	30-3; 30-30; 30-4; 30-40
3-500-P	3-502-P	20-3; 20-30; 20-4; 20-40	3-500-S	3-502-S	30-3; 30-30; 30-4; 30-40
1-91-P	1-93-P	20-1; 20-10	1-91-S	1-93-S	30-1; 30-10
2-151-P	2-153-P	20-2; 20-20	2-151-S	2-153-S	30-2; 30-20
3-201-P	3-203-P	20-3; 20-30	3-201-S	3-203-S	30-3; 30-30
1-191-P	1-193-P	20-1; 20-10	1-191-S	1-193-S	30-1; 30-10
1-251-P	1-253-P	20-1; 20-10	1-251-S	1-253-S	30-1; 30-10
2-301-P	2-303-P	20-2; 20-20	2-301-S	2-303-S	30-2; 30-20
3-301-P	3-303-P	20-3; 20-30	3-301-S	3-303-S	30-3; 30-30
3-401-P	3-403-Р	20-3; 20-30	3-401-S	3-403-S	30-3; 30-30
3-501-P	3-503-P	20-3; 20-30	3-501-S	3-503-S	30-3; 30-30
1-94-P	1-95-P	20-1; 20-10	1-94-S	1-95-S	30-1; 30-10
1-194-P	1-195-P	20-1; 20-10	1-194-S	1-195-S	30-1; 30-10
1-254-P	1-255-P	20-1; 20-10	1-254-S	1-255-S	30-1; 30-10

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## **Pulling hooks**

Series	Dimensions of the puller jaws	A mm	B mm	C mm	D mm	E mm	C2 mm	E2 mm	
12-1		3,0	14	13	25	17	-	-	
-		3,0	17	13	27	20	-	-	
12-3	$  \underset{B}{\longleftarrow}   \qquad   \underset{D}{\longleftarrow}   \uparrow \uparrow$	4,0	20	15	35	28	-	-	
12-4		4	18	19	63	20	21	30	
12-7		4	18	19	63	20	21	30	
12-7		4	28	22	70	20	21	30	
12-7	$  \longleftrightarrow   \uparrow   \longleftrightarrow D   \uparrow$	4	28	22	70	20	21	30	
	ртт Г	2,5	21	3,5	8,5	-	-	-	
		4,0	30	4	1-2	-	-	-	
14		4,0	30	5	1-3	-	-	-	
		2,5	11	3,5	8,5	-	-	-	
		4,0	30	5	1-3	-	-	-	
		2,0	10	7	15	4	-	-	
		2,0	11	8	15	4	-	-	
41		2,0	11	9	16	5	-	-	
42	$ \underset{B}{\overset{\bullet}{\overset{\bullet}}}  \qquad  \underset{D}{\overset{\bullet}{\overset{\bullet}}} ^{\frac{1}{2}}$	3,0 4,0	18 24	13 18	22 35	7,5 9	-	-	
		5,0	34	23	35	15	-	-	
		2,0	11	10	17	5	-	-	
		2,0	11	10	17	5	-	-	
		2,0	11	11	18,5	5	-	-	
43		3,0 3,0	16 17	11 14	20 30	7 10	-	-	
44		3,0	20	19	32	12	-	-	
45	$ \underset{B}{\longleftrightarrow}  \qquad  \underset{D}{\longleftrightarrow}  \xrightarrow{T}$	3,0	26	22	17	12	-	-	
		4,0	28	24	40	16	-	-	
		4,0 7,0	28 10	24 22	40 60	16 22	-	-	
46		8,0	30	22	50	22	-	-	
46 47	$  \underbrace{E}_{B}   =   \underbrace{E}_{T}   \underbrace{E}_{T}   A  $	6,0	30	24	50	22	-	-	
		2,5	12	5	15	7	-	-	
110		5	15	10	25	13	-	-	
110		6 9	18 20	12 12	30 35	14 18	-	-	
	$  \underbrace{\bullet}_{\mathbf{B}}   \underbrace{\bullet}_{\mathbf{D}}   \uparrow$	9	20	12	35	18	-	-	
		10°	10	7	12	5	-	-	
112		15°	10	7	12	5	-	-	
112		15°	15	8	15	6	-	-	
113	$ \underbrace{\bullet}_{B}  \qquad  \underbrace{\bullet}_{D}  \uparrow$	15°	15	8	15	5,5	-	-	
		5°	20	11	20	6,5	-	-	<u> </u>
	$/ $ $\backslash$ $/$ $/$	4	21	15	32	9	-	-	
120		4	21	15	32	9	-	-	
130		4	28	18	43	15	-	-	
	B D "	4	28	18	43	15	-	-	

Art No. Pair	built in Constant KUKKO-pullers:	Art No. Set	built in KUKKO-pullers:
 <u>-</u>		12-1-100-S	12-1
-	-	12-2-125-5	12-2
-	-	12-3-180-S	12-3
-	-	12-4-225-Е	12-4
-	-	12-5-275-Е	12-5
-	-	12-6-300-Е	12-6
-	-	12-7-350-Е	12-7
14-1-85-P	14-1	-	-
14-2-125-P	14-2	-	-
14-3-160-P	14-3	-	-
14-01-85-P	14-01	-	-
14-03-160-P	14-03	-	-
41-0-40-P	41-0	42-0-40-S	42-0
41-1-65-P	41-1	42-1-65-S	42-1
41-2-80-P	41-2	42-2-80-S	42-2
41-3-120-P	41-3	42-3-120-S	42-3
41-4-160-P	41-4	42-4-160-S	42-4
41-5-200-P	41-5	42-5-200-S	42-5
43-1-50-P	43-1	43-11-50-S	43-11
43-2-70-P 43-3-80-P	43-2 43-3	43-12-70-S 43-13-80-S	43-12 43-13
44-1-100-P	44-1	45-1-100-S	45-1
44-2-120-P	44-2	45-2-120-S	45-2
44-3-160-P	44-3	45-3-160-S	45-3
44-4-200-P	44-4	45-4-200-S	45-4
44-5-250-P	44-5	45-5-250-S	45-5
44-6-275-P -	44-6	45-6-275-S 45-7-350-S	46-6 45-7
46-300	46-1-A; 46-1-B 46-2-A; 46-2-B	46-300	47-1-A; 47-1-B 47-2-A; 47-2-B
46-450	46-2-A; 46-2-B	46-450	47-2-A; 47-2-B
110-01-50-Р	110-01; 110-02	-	-
110-1-100-Р	110-1; 110-10	-	-
110-2-150-P	110-2; 110-20	-	-
110-3-200-P	110-3	-	-
110-4-250-P 112-1-45-P	110-4	-	-
112-10-70-P	112-1	-	-
112-2-70-P	112-2	-	-
112-20-100-P	112-20	113-20-100-S	113-20
112-3-165-P	112-3	113-3-165-S	113-3
0-100-P	120-1; 120-10	0-100-S	130-10
0-148-P	120-2	0-148-S	130-2
0-150-P	120-20	0-150-S	130-20
0-200-Р	120-3; 120-30	0-200-S	130-3

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## Pulling hooks

Series	Dimensions of the puller jaws	A mm	B mm	C mm	D mm	E mm	A2 mm	B2 mm	C2 mm	D2 mm	E2 mm	mm	
		3,0	11	8	17	6	2	11	5	14	6	-	
201		3,0	15	12	25	7	2	9	9	22,5	7	-	
202		4,0	26	20	35	7	3	20	18	33	7	8	
203		5,0	26	20	35	12	4	26	20	35	12	8	
203		8,0	26	21	45	20	8	26	17	40	20	-	
200-0		7,5	8,5 10	3,5 9	11,5 15	7,5 5	6 5	6 10	3,5 9	8,5 20	6 5	-	
		5,0	10	9	15	5	5	10	9	20	5	-	
208		3,5	16	13	26	10	-	-	-	-	-	-	
209	$ \overbrace{B}  \qquad  \overbrace{D} ^{\frac{1}{2}}$	4,5	20	20	30	13	-	-	-	-	w-	-	
		4,0	22	12	22	8,5	-	-	-	-	-	-	
204		3,5	24	12	25	10	-	-	-	-	-	-	
	$  \underset{B}{   }   = 0$	4,0	30	21	35	15	-	-	-	-	-	-	
204-0		2,5	18	10	20	5	-	-	-	-	-	-	
204-0	$  \underbrace{-}_{B} +   \underbrace{-}_{T} + \underbrace{-}_$	3,0	24	9	20	6	-	-	-	-	-	-	
		4,0	25	15	35	11	2	25	5	25	17	-	
210		4,0	25	15	40	15	1,5	25	5	36	22	-	
	$ \begin{array}{ c c } \hline \hline \hline \hline \hline \hline \hline \hline \hline \hline \hline \hline \hline \hline \hline \hline \hline \hline \hline$	4,0	25	15	50	15	2,0	25	5	31	22	-	
		2,0	14	12	27	7,5	-	-	-	-	-	-	
205		3,0	18 24	14 15	41 50	8 18	-	-	-	-	-	-	
206		4,0 5,0	30	19	48	18	-	-	-	-	-	-	
207	$  + \frac{E}{D}   + \frac{E}{D}  $	8,0	30	22	46	20	-	-	-	-	-	-	
		4,5	30	22	58	19	-	-	-	-	-	-	
		2,0	8	8	11	4	-	-	-	-	-	-	
482		2,5	8	8	12	5	-	-	-	-	-	-	
483		3,0	14	8	17	8	-	-	-	-	-	-	
-105	$ \stackrel{\leftarrow}{\longrightarrow} $	3,5	16	9	22	9	-	-	-	-	-	-	
		3,5	16	12	25	10	-	-	-	-	-	-	
		5,0	30	20	40	8	-	-	-	-	-	-	
820		6,5 6,5	25,5 25,5	13 13	40 38	-	-	-	-	-	-	-	
844		6,5	25,5	16	44	-	-	-	-	-	-	-	
845		6,5	25,5	13	42	-	-	-	-	-	-	-	
	B B D	6,5	25,5	13	44	-	-	-	-	-	-	-	
Y-205		5,0	29	25	102	33	-	-	-	-	-	-	
Y-205		5,0	38,5	30	125	41	-	-	-	-	-	-	
. 200	$ \underbrace{}_{B}  \qquad _{D} $	10,0	30	42	155	63	-	-	-	-	-	-	
Y-208	A	4,0	24	15	50	18	-	-	-	-	-	-	
	$ \underset{B}{\overset{\bullet}{\longrightarrow}}  \qquad  \underset{D}{\overset{\bullet}{\longrightarrow}} $	4,5	30	22	58	19	-	-	-	-	-	-	

	built in		built in	built in
Art		Art		
No.		No.		
Pair	KUKKO-pullers:	Set	KUKKO-pullers:	KUKKO-pullers:
201-075-P	201-0	202-075-S	202-0	203-0
201-1-85-P	201-1	202-1-85-S	202-1	203-1
201-2-130-Р	201-2	202-2-130-S	202-2	203-2
201-3-260-P	201-3	202-3-260-S	202-3	203-3
201-4-300-P	201-4	202-4-300-S	202-4	203-4
201-S-P	201-S	202-S-S	202-S	_
 208-0-100-P	208-0	209-0-100-S	209-0	-
208-01-125-P	208-01	209-01-125-S	209-01	-
208-02-190-P	208-02	209-02-190-S	209-02	-
204-1-90-P	204-1	-	-	-
204-2-100-P	204-2	-	-	-
204-3-140-P	204-3	-	-	-
204-0-70-Р	204-0	-	-	-
204-02-100-P	204-02 204-V	-	-	-
210-1-170-Р	210-1	-	-	-
210-2-270-Р	210-2	-	-	-
210-3-325-P	210-3	-	-	-
205-00-100-Р	205-00	206-00-100-S	206-00; 207-00	-
205-01-150-Р	205-01	206-01-150-S	206-01; 207-01	-
205-02-220-Р	205-02	206-02-220-S	206-02; 207-02; 206-02-B; 207-02-B	-
205-1-280-P	205-1	206-1-280-S	206-1; 207-1; 206-1-B; 207-1-B	-
205-2-400-P	205-2	206-2-400-S	206-2; 207-2; 206-2-B; 207-2-B209-2-B	-
 205-3-540-P	205-3	206-3-540-S	206-3; 207-3; 206-3-B; 207-3-B	-
482-1-40-P	482-1	-	-	-
482-2-90-P	482-2	483-2-90-S	483-2	-
482-3-150-P	482-3	483-3-150-S	483-3	-
482-4-200-P	482-4	483-4-200-S	483-4	-
 482-5-250-P	482-5	483-5-250-S	483-5	-
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844-100 844-150	844-1-B 844-2-B	844-100 844-150	845-1-B 845-2-B	-
844-150 844-200	844-2-B 844-4-B	844-150	845-2-B 845-4-B	_
844-200	844-3-В	844-250	645-4-Б 845-3-В	-
844-250	844-5-B	844-250	845-5-B	-
Y205-00	Y20-205 ; Y28-205	Y205-00	Y20-206; Y28-206	-
Y305-00	Y30-205; Y38-205	Y305-00	Y30-206; Y38-206	-
Y505-00	Y50-205; Y58-205	Y505-00	Y50-206; Y58-206	-
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-	-	206-3-540-S	Y10-208; Y18-208	-

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Y-521-E       175         Y-57-10       125         Y-57-10       170         Y-57-19       125         Y-57-19       125         Y-57-24       125         Y-57-32       125         Y-57-32       125         Y-57-32       125         Y-57-32       125         Y-57-32       125         Y-57-32       125         Y-57-41       125         Y-57-50       170         Y-57-60       125         Y-57-60       125         Y-57-60       125         Y-5710M       170         Y-5710M       170         Y-5710M       170         Y-5724M       170         Y-5724M       170         Y-5724M       170         Y-5724M       170         Y-5724M       170         Y-5732M       125         Y-5732M       125         Y-5741M       170         Y-5750M       125         Y-5760M       125         Y-5760M       125         Y-5760M       125         Y-5760M       125         Y-		
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Fairs KUKKO is on the spot

KUKKO Tool factor

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We are on several industry trade fairs, Innotrans, Automechanika, BearingNet Conference and Eisenwarenmesse. We always have an open ear for you. Just visit us or make an appointment at the booth.

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**KUKKO tool factory** Leaend





Spanntiefe depth

Höhe des Abzughakenfußes length of claw

Abzughakenlänge length of the jaw

Höhe der Verlängerung length of extension

Fußöffnung des Abzughakens opening of claw end

Länge der Spindel spindle length

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Antrieb Außensechskant hexagon drive (male)

Antrieb Außenvierkant square drive (male)

Antrieb Innensechskant hexagon drive (female)

Antrieb Innenvierkant square drive (female)

Gabelöffnung fork opening

Gabelöffnung konisch fork opening (conical)

Hebelspannbereich opening range

Gabelöffnung fork opening

lichte Höhe clear height

lichte Weite clear width

Fußstärke thickness (of material)

Durchmesser der Trennmesser diameter of separator

Abstand der Seitenbolzen distance of side screw

Zugbolzenweite distance of side screw

Zugbolzentiefe depth

Einsatztiefe effective depth

Länge der Innenauszieher length of internal

Anzahl Segmente number of segments

Gewinde des Adapters (Werkstückseite) thread of adapter

Gewinde des Adapters (Zugbolzenseite) thread of adapter

Anzahl der Adapter number of adapters

Adapter Innensechskant  $\cap$ inner hexagon drive (adapter)







Federspannbereich spread Federdurchmesser

Adapter Innenvierkant

Gewinde

thread

inner square drive (adapter)



Anzahl der Federhalter number of segments



diameter

Breite des Grundgerätes width of basic unit



Spannweite der Klemmbacken spread





**Kugellager ISO** ball bearing ISO

Innendurchmesser des Kugellagers inner diameter of ball bearings



Durchmesser des Kolbenringes diameter of piston ring



Spannhöhe height

Durchmesser des Sicherungs-Außenringes diameter of circlip (outer ring)





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compatible with Farbe color

Verpackungseinheit package unit



Gewicht weight

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Segment JU.

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#### **KUKKO tool factory** Precautionary notes and helpful hints

Sicherheits- und Gebrauchshinweise

**Precautionary Notes and Helpful Hints** 

Werkzeuge dürfen grundsätzlich nur ihrem Zweck entsprechend, unter den vorgesehenen Bedingungen und innerhalb der Gebrauchsbeschränkungen benutzt werden.

All tools must always be used for the intended purposes under the envisioned conditions and within their postulated limitations.



Überprüfen Sie regelmäßig den Zustand des Werkzeuges und ersetzen Sie beschädigte oder abgenutzte Teile. Check the condition of your tools at regular intervals, and replace any damaged

or worn parts.

Halten Sie die Gewinde von Spindeln und Traversen stets rein und immer gut geölt. Keep the threads of all spindles, heads, etc. clean and well oiled.



Informieren Sie sich vor dem Einsatz über den richtigen Gebrauch des anzuwendenden Abziehwerkzeuges, unter Berücksichtigung der dabei erforderlichen Sicherheitsmaßnahmen. Before you start work, acquaint yourself with the proper use of the tool or tools in question, with due attention to pertinent safety measures.



Sofern über einen der genannten Punkte die geringste Unsicherheit besteht, sollte zur Klärung werkseitige Anwendungsberatung eingeholt werden. If anything at all is unclear about any of the above, it is best to call the factory for some firsthand advice.



Vergewissern Sie sich vor dem Einsatz, daß sich das Abziehwerkzeug in einwandfreiem Zustand befindet. Prior to starting work, make sure that the pulling tool is in good working order.

Überprüfen Sie die korrekte Anbringung des Werkzeuges und überwachen Sie während des Abziehvorganges die auftretenden Kräfte.

Double-check the tool for correct mounting, and monitor the forces incidental to the pulling process. Überschreiten Sie niemals, die für das Werkzeug vorgegebenen Belastungswerte. Kontrollieren Sie die



bei pumpenbetriebenen, hydr. Abziehwerkzeugen durch ein Manometer. Never violate the maximum load data prescribed for the tool in question. Use a torque wrench (for mechanical/pressure-screw-driven tools) or a pressure gauge (hydraulic/pump-driven tools) to keep tabs on the applied forces.

Aufbringung der Abziehkraft bei mech. Abziehwerkzeugen durch Verwendung eines Drehmomentschlüssels und



Tragen Sie stets eine Schutzbrille und geeignete Schutzkleidung. Always wear suitable personal protective equipment, including protective goggles.

Umhüllen Sie zum Schutz gegen das bei Abzieharbeiten immer mögliche ruckartige Ablösen Abziehwerkzeug und abzuziehendes Teil mit einer Unfallschutzplane. Always wrap the pulling tool and the workpiece in a protective blanket as a precaution against the potential effects of sudden release



Bei Überlastungserscheinungen, Schwergängigkeit usw. ist der Abziehvorgang zu unterbrechen und eine größere Ausführung der entsprechenden Series einzusetzen. If the tool appears to be overloaded, works sluggishly, or is otherwise negatively conspicuous, interrupt the pulling process, and replace the tool with a larger model.



Verwenden Sie keine elektrischen oder pneumatischen Kraft- oder Schlagschrauber zum Betätigen von Abziehwerkzeugen.

Never use an electric- or pneumatic-powered impact/hammer drill for driving a pulling tool.



Verwenden Sie keine Verlängerungen zur Erhöhung des übertragenen Drehmomentes. Never use extensions to increase the applied torque



Nehmen Sie keinerlei Veränderung an den Produkten vor. Never alter a pulling tool or related product in any way.



Da Stahl unter Wärmeeinfluß seine Festigkeitseigenschaften verändert, dürfen Abziehwerkzeuge bei evtl. Anwärmen abzuziehender Teile nicht miterwärmt werden. Since heat detracts from the thermal properties of steel, and since some parts require heating to facilitate their removal, remember to never heat the pulling tool along with the part.





Die optimierte Geometrie von Traverse und Gleitstücken sorat für besonders leichtes Verschieben der Abzughaken auf der Traverse. The geometry of the cross-bar and sliding parts has been optimized to ensure particularly easy movement of the extractor jaws along the cross-bar.



Die Kreuzhaken garantieren maximale Sta-bilität der Aufhängung der Abzughaken im Gleitstück.

The cross-jaws guarantee maximum stabi-lity for the mounted sliding parts and jaws.



Ermöglicht durch die Handstellrändel ein schnelles Lösen und Verschieben, der Abzughaken auf der Traverse, ohne Schraubenschlüssel.

A manual adjustment knurl allows rapid loosening and adjusting of the extractor jaws without using a wrench.



Leichtes Drehen der Betätigungsmutter durch eingebautes Drucklager. Der Rei-bungswiderstand wird auf ein Minimum reduziert.

The operating nut is easy to turn thanks to a built-in pressure bearing. Resistance from friction is reduced to a minimum.



Leichtgängige, selbstverstellbare Abzugha-ken mit innenliegender Federung. Smooth-running, self-adjusting spring-back jaws



Automatische Selbstspannung und Selbstzentrierung der Abzughaken. Automatic tensioning and centering of the extractor jaws.



Durch das Drehen der Feststellschraube werden die Durch das Drehen der Feststellschraube werden die Abzughaken zentrisch angespannt und greifen so fest um das abzuziehende Teil. Ein Bewegen oder Abrutschen wird so verhindert. By turning the locking bolt the jaws are centered and tensioned and therefore firmly grip the piece to be pulled off. This prevents the jaws moving or diaping off.

slipping off



Einzigartiges, leichtes Zurückdrehen des Muttern-sprenger-Meißels aus verformten oder gesprengsprenger-Meißels aus verformten oder gespreng-ten Muttern. Der Meißel bleibt nicht in der Mutter hängen.

Unique, simple pullback of the nut splitter chisel to remove it from deformed or split nuts. The chisel does not get stuck in the nut.

hydraulic

Abziehwerkzeuge mit Hydraulik-Funktion. Tools with hydraulic function.



Optimale Anpassung der Spindel an die Welle durch 2-seitige Spindelspitze. Optimal adjustment of the spindle to the shaft with 2-sided spindle top.





















**KUKKO tool factory** A world in motion since 1919!

ADDD PACKAGING

# UNBOXING



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