BLUE HITS

WAŻNE DO
31/03/2025

TECHNOLOGIA MOCOWAŃ I AUTOMATYZACJA -
WYDAJNOŚĆ I PRECYZJA W PRODUKCJI

Odkryj **WYJĄTKOWE PRODUKTY** w
BEZKONKURENCYJNYCH CENACH

HAHN+KOLB GROUP

LET'S WORK TOGETHER.

ATORN RS-Z 54 CENTRE CLAMPING DEVICE

Basic body with spindle and without jaws

The RS-Z centre clamping device is specially designed for use in NC machines and machining centres. It helps to increase cost-effectiveness by reducing the number of tool changes and shortening the run times per workpiece. This makes it particularly efficient for series production. It is also suitable for use on pallet and robot changing systems, which further increases flexibility and automation in production.

Type	CF 28793... Ref. no.
RS-Z 54-70	100

ATORN RS-Z 75 CENTRE CLAMPING DEVICE

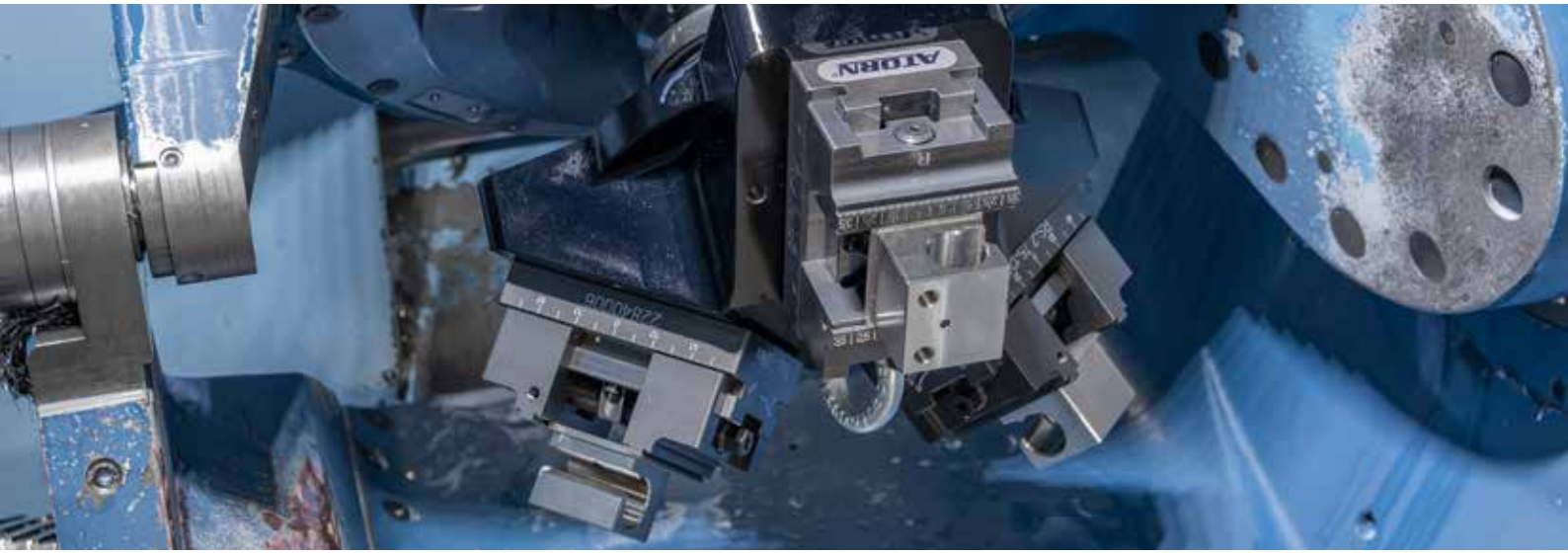
Basic body with spindle and without jaws

Type	CF 28793... Ref. no.
RS-Z 75-125	110
RS-Z 75-150	120
RS-Z 75-175	130
RS-Z 75-200	140

ATORN RS-Z 125 CENTRIC CLAMPING DEVICE

Basic body with spindle and without jaws

Type	CF 28793... Ref. no.
RS-Z 125-180	150
RS-Z 125-230	160
RS-Z 125-280	170
RS-Z 125-330	180



ATORN RS-P 310 3-WAY CLAMPING PYRAMID

includes RS-Z centre clamping device without jaws

The RS-P 3-way clamping pyramid is an innovative clamping technology that has been specially developed for NC machines and machining centres. It offers a variety of advantages that contribute to increasing the cost-effectiveness of production:

1. Fewer tool changes due to multiple clamping: The clamping pyramid enables several workpieces to be clamped simultaneously, which reduces the number of tool changes required. This results in fewer downtimes and increases the efficiency of the machining processes.
2. Shorter run times due to optimisation of cycle times: The ability to process several workpieces in single pass significantly reduces cycle times. This increases production speed and reduces the costs per workpiece.
3. Space-saving and compact: The construction of the clamping pyramid is designed in such a way that it requires little space, which saves valuable work space in the production process.
4. Outstanding accessibility for 5-axis machining: The arrangement of the clamping flats ensures optimum accessibility, so that processing of even complex geometries can be performed efficiently.

Overall, the RS-P 3-way clamping pyramid is an excellent solution for companies that want to optimise their production processes and increase productivity.

Type		RS-P 310	RS-P 310 DMU 110°	RS-P 310 Matsuura
Jaw width (mm)		75	75	75
Basic body dia. (mm)		305	305	305
Body height (mm)		68	68	68
Max. dia. (mm)		310	310	310
Body length (mm)		125	125	125
Total height (mm)		146	146	146
Max. length (mm)		128	128	128
Min./max. clamping width (mm)		8-100	8-100	8-100
Clamping force (kN)		30	30	30
Width across flats (mm)		12	12	12
CF28793...	**Ref. no.**	**300**	**310**	**320**

ATORN RS-P 465 3-WAY CLAMPING PYRAMID

includes RS-Z centre clamping device without jaws

Type		RS-P 465
Jaw width (mm)		125
Basic body dia. (mm)		345
Body height (mm)		92
Max. dia. (mm)		465
Body length (mm)		180
Total height (mm)		184
Max. length (mm)		183
Min./max. clamping width (mm)		8-150
Clamping force (kN)		30
Width across flats (mm)		12
CF28793...	**Ref. no.**	**330**

HIGHLIGHT!

ATORN RS-P 6-WAY CLAMPING PYRAMID

includes 3x RS-Z centre clamping devices without jaws

The RS-P 6-way clamping pyramid offers an innovative solution for the clamping technology of NC machines and machining centres. This system aims to significantly increase the cost-effectiveness of production by reducing the number of tool changes required and shortening the run times per workpiece.

Key features of the RS-P 6-way clamping pyramid:

1. Space-saving design: The compact construction of the clamping pyramid enables efficient use of work space.
2. Excellent accessibility: The design ensures optimum accessibility for 5-axis machining, which makes it easier to process a variety of parts.
3. Fewer tool changes: The multiple clamping makes it possible to process several workpieces simultaneously, which means tool changes are required less frequently.
4. Raw part and finished part machining: The system supports both the machining of raw and finished parts on a single clamping device, which increases the flexibility of the production process.
5. Optimisation of cycle times: Reducing setup and changeover times reduces overall production time, resulting in increased productivity.
6. Patented system: The 6-way clamping pyramid has a patented design and comes with three integrated RS-Z clamps and three interfaces for three additional RS-Z clamps. The integrated zero-point system ensures precise positioning and repeat accuracy.

These features make the RS-P 6-way clamping pyramid an efficient solution for modern manufacturing companies and will optimise their processes and significantly increase cost-effectiveness.

Type		RS-P 54-70 6-way	RS-P 75-125 6-way
Jaw width (mm)		54	75
Dia. (mm)		215	335
Total height (mm)		155	250
Min./max. clamping width		8-100 mm	8-150 mm
Clamping force (kN)		20	30
CF28793...	**Ref. no.**	**430**	**440**

ATORN RS-T 3-WAY CLAMPING TOWER

includes 3x RS75-125 centric clamping devices

The RS-T 3-way clamping tower is an innovative solution that has been specially developed for use in NC machines and machining centres. By reducing the tool change times and shortening the run times per workpiece, the clamping tower helps to increase the cost-effectiveness of production processes.

The main advantages of the 3-way clamping tower include:

1. High productivity: Due to a significant increase in machine utilisation, more parts can be produced in less time.
2. Repeat accuracy: The clamping tower offers a high level of repeat accuracy, which is essential for precise production processes.
3. Efficient and compact: The design is highly efficient and ensures that the available space is used optimally.
4. Maximum part size: The clamping tower can accommodate parts with a size of up to 100 x 100 mm and variable length with a collision circle of 350 mm.
5. Integration into automated systems: It is ideally suited for use in palletising systems and robot changing systems, which makes the automation of production processes considerably easier.

Overall, the RS-T 3-way clamping tower is a powerful solution for companies looking to optimise their production processes and maximise the efficiency of their machines.

CF 28794...
Ref. no.
400

ATORN RS-T 20-WAY CLAMPING TOWER

includes 20 RS75-125 centre clamping devices

The RS-T 20-way clamping tower is an innovative solution that has been specially developed for use in machining centres with pallet stations. The ability to mount up to 20 RS-Z centre clamping devices on a stable cast basic body ensures an extremely high level of productivity.

The construction of the clamping tower not only allows for considerable utilisation of the machine, but also supports autonomous operation across several shifts. If several clamping towers are used in a system, machines can sometimes work for more than one shift without human intervention. This increases efficiency and significantly reduces operating costs.

Thanks to the innovative technology, workpieces can be changed quickly, minimising downtimes and increasing the cost-effectiveness of production processes.

The RS-T 20-way clamping tower is therefore an essential tool for modern, automated production processes.

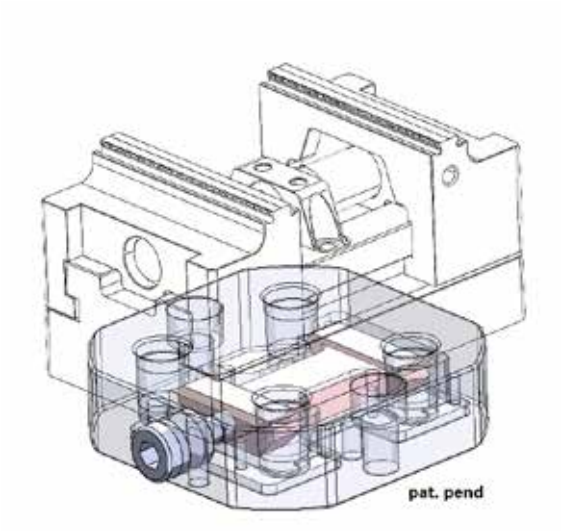
CF 28793...
Ref. no.
700

SUITABLE ACCESSORIES

ATORN RS-NP ZERO-POINT CLAMPING SYSTEM

Accessories for RS-Z clamps and RS-P pyramids

A zero-point clamping system is an advanced clamping technology that is characterised by speed, cost-effectiveness and the highest level of precision and accuracy. The combination of high accuracy, minimal set-up times and flexible handling makes it an important component of modern production technology.



RS 96-NP

NP52, double

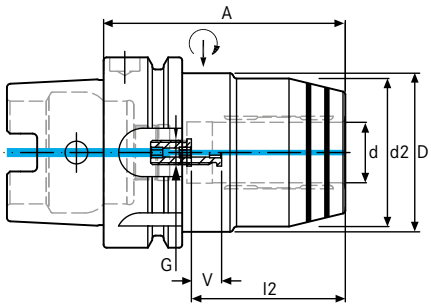
Type	Body width (mm)	Body height (mm)	Body length (mm)	Weight (kg)	CF 28794... Ref. no.
RS 52-NP	102	27	102	1.6	**115**
RS 52/96-NP	102	27	102	2.6	**110**
RS 96-NP	165	27	165	4.6	**105**
RS 96-NP MAM	165	27	165	3.4	**100**

YOU CAN FIND MORE ACCESSORIES IN OUR ONLINE SHOP AT WWW.HAHN-KOLB.NET

ATORN HYDRAULIC EXPANSION CHUCKS

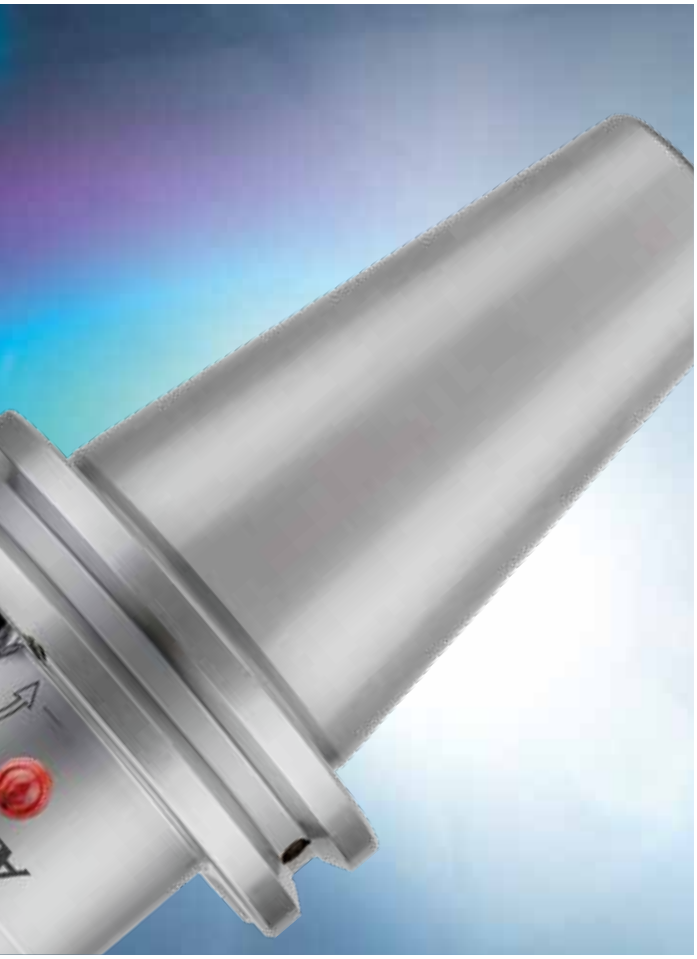
in accordance with ISO 12164 (DIN 69893)

HSK 63 | Form A | IK | G 2,5 25000 rpm | ≤0,003 | DIN 69893



The hydraulic expansion chuck is an excellent tool for highly accurate centre clamping of milling, drilling and reaming tools. It is particularly effective at milling and heavy-duty machining, especially roughing.
A major advantage of this chuck is its damping properties, which not only increase the tool life, but also extend the service life of the machine spindle. The vibration-damping effect helps to reduce micro-cracks and improve the surface of the workpieces.

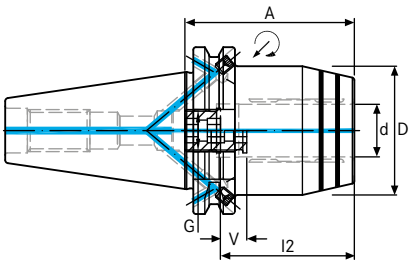
Tool adapter	d (mm)	A (mm)	d2 (mm)	d3 (mm)	D (mm)	l1 (mm)	l2 (mm)	G	max. V (mm)	CF 23738... Ref. no.
HSK 63	20	80	38	49	52.5	36	51	M8 x 1	10	**020**
HSK 63	12	80	32	42	52.5	34	46	M8 x 1	10	**012**



ATORN HYDRAULIC EXPANSION CHUCKS

in accordance with ISO 7388-1 (DIN 69871)

SK 40 | SK 50 | Form AD/AF | IK | G 2,5 25000 rpm | ≤0,003



Tool holder	d (mm)	A (mm)	d2 (mm)	d3 (mm)	D (mm)	l1 (mm)	l2 (mm)	max. V (mm)	G	CF 23338... Ref. no.
SK 40	12	50	32	42	42	36	46	10	M8 x 1	**012**
SK 40	20	64.5	38	49	49	41	51	10	M16 x 1	**020**
SK 50	20	64.5	38	49	49	41	51	10	M16 x 1	**021**
SK 50	32	81	68	72	72	51	61	10	M16 x 1	**032**

ATORN AVM 5-AXIS CLAMP

Mechanical/mechanical clamping system

The AVM 5-axis clamp is an excellent choice for manual and mechanical clamping technology. It is designed to work without power transmission and is therefore suitable for all common materials. An outstanding feature is the technically optimised quick-change jaw system, which enables the clamping jaws to be replaced quickly and easily in seconds.

In addition, the AVM enables a high level of accuracy to be transferred from the machine to the workpiece, which ensures precise machining results. The easy accessibility due to the small interference contour makes handling easier, and easy cleaning ensures maintenance-friendly use. The large clamping range makes the AVM versatile and ideal for a variety of applications.

Type	Jaw width (mm)	Body height (mm)	Body width (mm)	Body length (mm)	Min./max. clamping width (mm)	Clamping force (kN)	Groove width (mm)	Width across flats (mm)	**CF 28765...** Ref. no.
AVM 5-axis clamp	125	152	125	345	13-182	40	20	12	**000**

SUITABLE ACCESSORIES

ATORN AVM STEPPED JAWS

Type	Jaw width (mm)	Jaw length (mm)	Jaw height (mm)	**CF 28765...** Ref. no.
Stepped jaw, 3 mm	125	62	26	**020**
Stepped jaw, 5 mm	125	62	28	**021**

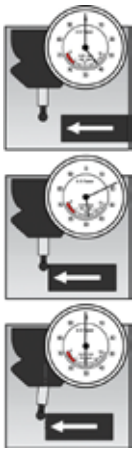
Ref. no. 020

Ref. no. 021

ATORN 3D EDGE FINDER

with dial gauge

The ATORN 3D edge finder is a precise measuring instrument that is ideally suited for use on tool and eroding machines and offers the following advantages:



Readability: Stable and durable, easy-to-read dial gauge.

Versatility: Can be used horizontally and vertically.

Z axis: Precise measurements without conversions.

Concentricity adjustment: Adjustment using four screws for exact calibration.

Predetermined breaking point: Protects against overloading.

Degree of protection IP 67: Dustproof and waterproof.

Overall, the ATORN 3D edge finder offers a combination of precision, flexibility and robustness, which makes it a valuable tool for production technology.

(mm)	20
Probe head dia. (mm)	4
Housing width (mm)	65
Dial gauge dia. (mm)	57
Graduation (mm)	0.01
Probe insert length (mm)	33
Repeatability (+/-) (mm)	0.01
IP degree of protection	IP 67
CF23924... **Ref. no.**	**010**

Clamping shank diameter 20 mm

TSCHORN 3D DIGITAL 3D EDGE FINDER

with shank

Revolutionary! The new 3D Digital edge finder combines the best of two worlds because the results can be displayed either as analogue or digital values. The digital display with figures enables you to read values easily and digitally. However, as it is difficult for your eyes to reliably follow a rapidly changing digital display, the additional analogue display on the 3D Digital edge finder gives you assurance when reading off values because a moving pointer can be kept track of more efficiently and reliably. What's more, an integrated LED shows the probing process status using different colours and helps to prevent overrunning and the resulting defect. With the 3D Digital edge finder, you can determine workpiece points and length dimensions in all axis directions (X/Y/Z) quickly and easily and align the workpiece or vice parallel to the machine axis.

CF 23924... Ref. no.
030

TSCHORN Probes & Tools Technology — DREHPLUS V2 3D EDGE FINDER

with shank

A market sensation!

No other measuring equipment gives you the opportunity to measure your tool to the turning centre simply, precisely and directly in your lathe. Our unique probing technology, which we have developed especially for use in your lathe, makes this possible. It is not possible to measure pointed lathe tools precisely on a ball. That's why the DREHplus 3D edge finder has a patented, conical probe body. This is used to probe directly to the centre of the spindle in both the X axis and the Y axis, which eliminates additional calculations, as X=0 and Y=0.

CF 23924...
Ref. no.
033

FLOTT Werkzeugmaschinen — OP-G GRINDING AND CONTROL VICE

[felix] 2.0

Ref. no. 010-020

The innovative drill vice from Felix Röwekämper offers a user-friendly solution for the safe and precise drilling of workpieces.
The drill vice enables the workpiece to be clamped easily, quickly and securely. The vice can be mounted on the workbench, precisely adjusted and secured in just two operations.
This drill vice is an excellent choice for tradespeople and professionals who value efficiency, safety and precision.

Type		(felix) 80 2.0	(felix) 100 2.0	(felix) 120 2.0	(felix) 150 2.0
Jaw width (mm)		80	100	120	150
Clamping width (mm)		120	135	168	200
Jaw height (mm)		28	32	40	40
Body length (mm)		280	340	400	451
Body height (mm)		78	85	102	103
Body width (mm)		95	122	140	170
Weight (kg)		11.6	12.8	20.3	32.4
CF28680...	**Ref. no.**	**010**	**020**	**030**	**040**

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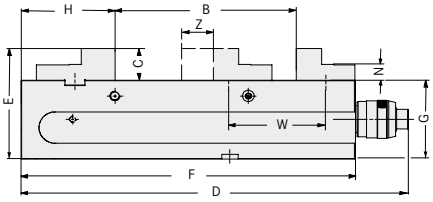
ATORN MM-G HIGH-PRESSURE MACHINE VICES

Mechanical/mechanical clamping system with power transmission



The ATORN MM-G 125 mm is a versatile machine vice that is ideal for NC machines, machining centres, tool, mould and fixture construction. It is also ideal for series production.

The vice has a stable cast steel basic body that ensures durability and stability. The guideways are hardened and ground, ensuring high precision and reliability during operation.

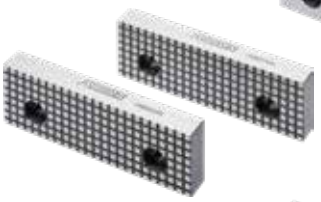
Another practical feature is the clamping force preset on the drive spindle, which enables simple and precise adjustment of the clamping force. In addition, the ATORN MM-G is equipped with clamping nipple boreholes for the ATORN K10.2 zero-point clamping system, which facilitates integration into existing systems.

The clamping repeatability is an impressive 0.01 mm with the same clamping force, which ensures a high level of accuracy during machining.

Jaw width	Jaw height	Body length	Max. length	Min./max. clamping width	Min./max. clamping width for reversible stepped jaws	Clamping force (kN)	Weight (kg)	Travel of slide	Offset range 2	**CF 28874...** Ref. no.
125 mm	40 mm	400 mm	463 mm	0-216 mm	97-312 mm	40	41	109 mm	1 x 108 mm	**125**
160 mm	50 mm	530 mm	618 mm	0-320 mm	131-451 mm	60	79	117 mm	2 x 102.5 mm	**160**


Ref. no. 203-204


Ref. no. 214-215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Ref. no. 210-211


Ref. no. 220-221


Ref. no. 208-209

SUITABLE ACCESSORIES

ATORN SCREW-IN JAWS

Accessories for type MM-G high-pressure machine vices

Application:
Jaws for universal use according to requirements. The jaws are screwed directly into the screw-on jaws.

Design:
- With smooth clamping jaw, with claws, soft jaws and much more.
- Partially hardened and polished

Advantage:
- Easy and quick to change
- Partially reversible

Scope of delivery:
One set of screw-in jaws for MM-G, includes fastening screws. Vee block jaw supplied as one piece =


Ref. no. 212-213


Ref. no. 218-219


Ref. no. 222-223

Type	Jaw design	Jaw width (mm)	Jaw thickness (mm)	Jaw height (mm)	Hole spacing (mm)	Hole spacing (vertical) (mm)	CF 28885... Ref. no.	CF 28885... Ref. no.
WB-S reversible jaw	With longitudinal grooves | smooth	125	16	40	80	15.6	**203**	-
WB-S reversible jaw	With longitudinal grooves | smooth	160	16	50	100	19.6	**204**	-
WB-K reversible jaw	With longitudinal grooves | with cross-grooves	125	16	40	80	15.6	**206**	-
WB-K reversible jaw	With longitudinal grooves | with cross-grooves	160	16	50	100	19.6	**207**	-
SB-K stepped jaw	Smooth	125	16	40	80	15.6	**208**	-
SB-K stepped jaw	Smooth	160	16	50	100	19.6	**209**	-
SB-G stepped jaw	Smooth	125	16	40	80	15.6	**210**	-
SB-G stepped jaw	Smooth	160	16	50	100	19.6	**211**	-
KB-K claw jaw	With claws	125	16	40	80	15.6	**212**	-
KB-K claw jaw	With claws	160	16	50	100	19.6	**213**	-
KB-G claw jaw	With claws	125	16	40	80	15.6	**214**	-
KB-G claw jaw	With claws	160	16	50	100	19.6	**215**	-
KB-O claw jaw	With claws | without jaw steps	125	16	40	80	15.6	**216**	-
KB-O claw jaw	With claws | without jaw steps	160	16	50	100	19.6	**217**	-
Clamping jaws, soft, steel	Smooth	125	20	40	80	15.6	**218**	-
Clamping jaws, soft, steel	Smooth	160	20	50	100	19.6	**219**	-
Clamping jaws, soft, aluminium	Smooth	125	20	40	80	15.6	**220**	-
Clamping jaws, soft, aluminium	Smooth	160	20	50	100	19.6	**221**	-
PB vee block jaw	Smooth | with vee block	125	20	40	80	15.6	-	**222**
PB vee block jaw	Smooth | with vee block	160	20	50	100	19.6	-	**223**

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