

27.25

27505 - 27508 **Drill vices**

Design

- Made from special cast iron

- Steel jaws with V-shaped recesses for clamping round parts, with contact surfaces for flat workpieces

Applications

For use on drilling stands, bench drills and smaller column drills.

27505

Design

- With a clamping surface and 4 longitudinal grooves

27508 RÖHM

Design

- With additional right-angled machined contact surfaces, so that the right and front side of the vice can be tilted to enable multiple machining options without re-clamping the workpiece





					RÖHM	
Jaw width mm	Clamping width mm	Jaw height mm	27505		27508	
85	70	28.0		201		
100	90	28.0		202		
100	93	15.0				102
120	110	35.0		203		
150	150	13.5		104		

27510 - 27511 **Prismatic vices**

EEKABA

27510
Prismatic vices
Design
- With offset, exchangeable

- le prism jaws for clamping round, hexagonal and flat material
- Open base plate, for clamping and drilling through workpieces
- Long guide covering the entire clamping range
- All jaws with horizontal prisms
- Size 1 with 1 additional vertical prism
- Sizes 2/3/4 with 2 vertical prisms in different sizes







							Vice	Rep	lacement jaws	
Size	Jaw width	Clamping width	Overall height	Base plate L x W		Weight	27510		27511	
	mm	mm	mm	mm	width mm	approx. kg				
1	80	70	62	150 x 140	12	4		101		101
2	100	115	74	280 x 180	14	9		102		102
3	125	130	85	350 x 205	14	15		103		103
4	160	225	102	460 x 255	18	29		104		104

27530

Design

27.26

- Flat and stable

Applications

operation with just one lever handle.

H:M

<u>TOR/</u>

- Max. clamping force 10 kN - Includes guide rail

For fast and safe clamping. Can be used with guide rail, base and side clamping, single-handed

Drill vices with quick adjustment

- 27530 101 Jaw width 110 mm.
- 27530 102 Jaw width 135 mm.



Jaw width mm	Clamping width mm	Jaw height mm	Weight approx. kg	27530
110	130	32	12.5	101
135	160	40	19.0	102



27530

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Drill vices/quick-action clamping vices

RŶHM

27534 - 27535

Design

- With large clamping ranges
- One clamping surface

27534 - 27536

- Long flat guides
- High clamping force and clamping safety
- The rear jaw has additional horizontal
- and vertical V-shaped recesses

27534

Design

- Adjustment via threaded spindle

27535

- Design
- Single-handed quick adjustment via push rod
- with pointed teeth
- Without threaded spindle

27536

Replacement jaws

- **Design** - Prism jaw and normal jaw with
- workpiece support
- Soft and bronzed
- Pairs





27536



							Vice		Vice	Rep	lacement jaw	
Jaw width mm	Clamping width mm	Jaw height mm	Overall height mm	Clamping groove width mm	Base plate L x W mm	Weight approx. kg	27534		27535		27536	
90	90	25	60.0	14	195 x 145	5.5		101				101
110	130	32	72.5	17	315 x 175	9.5		102		101		102
135	160	40	80.5	17	365 x 205	13.5		103		102		103
160	220	50	95.5	17	445 x 245	25.0		104				104

27537 Drill vices

Design - Broad range of uses

Quality

The body and the moving parts are made of special cast iron.



ground - One jaw with horizontal and vertical prism for round material

- Large clamping width, flat design

- The other jaw is grooved
- Both **jaws** have one smooth side and can be
- reversed as required
- For clamping flat parts, both jaws are stepped at the top

- The reversible clamping jaws are hardened and

- Open base plate with 8 chip grooves

Jaw width mm	Clamping width mm	Jaw height mm	Overall height mm	Weight kg	27537	
110	130	32	72.5	9.5		101
135	160	40	80.5	14.0		102
160	220	50	95.5	25.5		103

HIN

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Angle V-blocks | Precision clamps | Vices | Clamping jaws

27610 Adjustable optical squares

Design 27610 Accuracy +/- 0.1 mm, angle accuracy +/- 10 min. Applications Universal use for grinding, drilling, measuring and marking off. The prism is clamped in a vice. The desired angle is set and locked with a locking screw. Quality Alloyed tool steel, hardened to HRC 55. W Weight 27610 Length н h mm mm mm mm approx. g П 75 25 33 23 380 101 102 30 46 29 850 102 27617

Precision clamps



С

Surface precision-ground. Perpendicularity: 0.005/100 mm. Parallelism: 0.005/100 mm. Applications For precise clamping on NC machines during grinding, eroding, measuring and milling work. Quality Tool steel, hardened, HRC 58.

Clamping width B	Α	С	E	F	Weight	27617	
mm	mm	mm	mm	mm	approx. kg		
65	50	25	50	140	1.4		101
100	73	35	67	190	4.1		102
125	100	45	90	245	7.3		103



27620

Grinding and control vices

Design

Surface precision-ground. The precision-angled design allows the machining of workpieces from 4 sides

Perpendicularity: 0.002/100 mm.

Parallelism: 0.002/100 mm.

Applications

For highly accurate machining of workpiecesgrinding, drilling, milling, measuring-on all precision machines. Quality

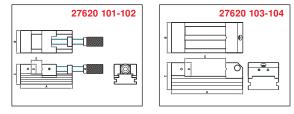
Tool steel, hardened, HRC 60.

27620 101-102 With threaded spindle.

С

27620 103-104

With quick adjustment (no spindle). The movable jaw is pushed towards the workpiece on the V-guide and clamped by a screw.



27620 103-104

27620 101-102

Clamping width E	Α	В	С	D	Weight	27620
mm	mm	mm	mm	mm	kg	
0–35	90	60	50	25	1.6	101
0–80	160	70	62	30	4.3	102
0–80	160	70	62	30	3.3	103
0–120	210	90	80	40	8.3	104

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27622 Sine bar vice 27622 Design Surface precision-ground. Perpendicularity: 0.005/100 mm. Parallelism: 0.005/100 mm. Axis distance: 100 mm. Applications For highly accurate machining of workpieces-grinding, drilling, milling, measuring-on all precision machines. For precise clamping; can be pivoted around the transverse axis. Quality Tool steel, hardened, HRC 58. Width Weight **Clamping width** Height 27622 Length mm mm mm mm kg 190 10 101 0-90 73 112

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27625 - 27627 **Machine vices**

RÖHM

27625 Design

Made of special cast iron, top pressure clamp, long flat track guide for the movable jaw, turned spindle, clamping jaws reversible, smooth and grooved.

27627 Standard turntable Design

With ground support edge for additional support of the vice (for art. no. 27625 105 with additional clamping slots).



								Vice		Turntable	
Jaw width mm	Clamping width mm	Jaw height mm	Overall height mm	Clamping groove width mm	Base plate L x W mm	Clamping force kN	Weight approx. kg	27625		27627	
113	105	31.6	90	14	300 x 160	25	13.5		102		102
135	125	39.6	104	14	365 x 200	35	25.0		103		103
160	145	49.6	120	18	410 x 240	45	40.0		104		104
200	185	62.6	145	22	460 x 280	55	65.0		105		105

27628

Machine vices, type MSR

R**ÖHM** Design

Mechanical clamping system. Body made of hardened steel 60 HRC. Clamping repeat accuracy 0.02 mm.

Scope of delivery: Includes spanner, workpiece stop and 4 adjustable clamps (without T-groove screws). Applications

For milling machines and machining centres.

	Clamping width mm	Jaw height mm	Clamping groove width mm	Base plate L x W mm			27628	
125	150	40	20	345 x 95	30	12.7		101
150	200	50	20	420 x 125	50	25.6		102
150	300	50	20	520 x 125	50	29.5		103
175	400	58	20	655 x 145	60	51.2		104



27629

Adjustable clamps for vices, type MSR

RÖHM	
Design	

Applications For art. no. 27628.

Complete, for base mounting. Individual.	For jaw width 125	For jaw	width 150/175	
Suitable	27629		27629	
for T-groove				
12		101		201
14		102		202
16		103		203
18		104		204

103

Note: Four adjustable clamps are required for proper

clamping

27629

103

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103

() = Items with prices in brackets partly available from stock ena/P

175

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103

27656

NC compact clamp, type RKE

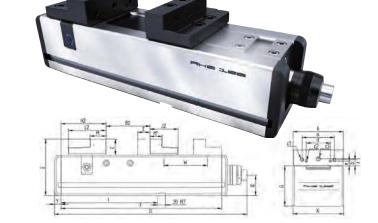
R**OHII** Design

With mechanical power transmission; can be clamped horizontally, vertically or laterally. Steel basic body with all sides hardened and ground. Stepped jaws, fixed, reversible; stepped jaws, movable, reversible. Long sliding clamp with transverse grooves. Drive spindle with default clamping force setting. Mounting thread M12 for workpiece stop. Clamping surfaces for adjustable clamps; reliable chip protection prevents the penetration of chips into the interior of the body.

Note:

For accessories, see art. no. 27657–27663 and 27682–27684.

Standard interchangeable jaw grips on request. Clamping width for reversible stepped jaws: Jaw width 125 = 97–312 mm, 160 = 131–451 mm.



27656

Jaw width A	B2	E	F	G	H2	K	W	Clamping force	Weight	27656	
mm	mm	mm	mm	mm	mm	mm	mm	kN	approx. kg		
125	0-216	140	400	100	112.5	126	1 x 108.0	40	41		201
160	0-320	165	530	115	130.0	162	2 x 102.5	60	79		202

NC compact clamp, type MM-G 125/160

27649

ATORN[®]

Design

Standard version, can be clamped on the base. Clamping system mechanical/mechanical. Basic body made of GGG. Stepped jaws reversible, hardened and ground. Long sliding clamp with transverse grooves, drive spindle with default clamping force setting. Mounting thread M 12 for workpiece stop. Clamping surface for adjustable clamps. Reliable chip protection prevents chips from penetrating into the interior of the body.

Applications

Locating holes compatible with ATORN zero-point clamping system. Depth gauge 200 mm.

Note:

For accessories, see art. no. 27657–27663 and 27682–27684.



	Jaw width mm	Jaw offset range mm	Travel of slide mm	Total length mm	Total height mm	Jaw height mm	Clamping range (high side) mm	Clamping range (step side) mm	Clamping force kN	Weight kq	27649	
j	125	1 x 108.0	109	463	140	40	0-216	97-312	40	41		101
	160	2 x 102.5	117	618	165	50	0-320	131-451	60	79		102

27657 - 27663 Acc	cessories for	NC con	npact clamp, ty	ype RKE	+ MMG			
27657 Set of stepped jaws 27658 Set of support jaws	2	7663 102	A = 133 mm, B = 106 m A = 166 mm, B = 111 m		-	27657	2766:	3 101
27659 Claw insert, single with fastening s support jaws. 27663 Angle drive, 90 ° Applications Ideal for side-mounted clamping or machine tables.					276	27658	27663	3 102
For jaw width	27657		27658		27659		27663	
92–125		101	1	01		201		101
160		102	1	02		202		102

Clamping technolog

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H M

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27651

🚯 kesel°

Design

- ALLMATIC compatible jaw interface
- Small dimensions
- Optimum ratio between the clamping width and overall length
- Rigid basic body made of GJS 600
- Inductively hardened
- Upper and lower side ground - Pairing accuracy 0.02 mm

Advantages:

- Fully enclosed spindle
- Increased functional safety - Optimised chip protection
- Minimal cleaning effort
- Mechanical power booster
- Quick-change system for spindle unit

High-pressure vice, NCA

- Scope of delivery: - Basic body with stepped jaws
- 1 hand crank
- 4 adjustable clamps

Note:

The overall length remains unchanged even when clamping large workpieces.

- (1) Clamping with hand crank; highest clamping forces are achieved with max. 2 spindle revolutions
- 2 Maintenance-free high-pressure spindle with constant pressure. Wear-resistant, purely mechanical power booster. No decrease in clamping force
- 3 Guideways inductively hardened and ground
- ④ Precise cross-directional aligning grooves on the underside
- (5) Thread for workpiece stop
- 6 Quick-change click system, Kesel
- (7) Thread for holding Kesel/ALLMATIC interchangeable jaws (except for ALLMATIC step strips)
- (8) Outlet for chips and coolant



Туре	Jaw width mm	Clamping width (high side) mm	Clamping width (step side) mm	Clamping force Clampi max. kN	ng force steps	Basic body (L x W x H) mm	Total length mm	Bed height mm	Weight kg	27651	
NCA 90	90	0-126	91-217	28	11	305 x 90 x 80	340	80	15		101
NCA 125	125	0-182	131-313	40	4	424 x 126 x 100	483	100	35		102
NCA 160	160	17-263	187-433	60	4	560 x 164 x 115	616	115	65		103

5-axis clamps

27592

5-axis clamp, TCA 70

ATOR/ Design

- Guides hardened and ground on all sides
 Mechanical clamping system without power
- transmission with manual control
- Centric clamping with two movable jaws

Advantage:

- Repeat accuracy 0.02 mm with the same clamping force/clamping properties
- Symmetrical design = workpiece is centred and parallel
- Telescopic spindle; interference contour remains unchanged
- Centric clamping and simple programming without zero offset
- Integrated scale ring for fine adjustment of the centre position
- Material allowance is distributed symmetrically - Conventional clamping and grip clamping
- possible without pre-stamping
- Support height of the workpiece 192 mm
 Quick-change jaw system without tools, using quick-release fastener
- Change time per pair of jaws less than 10 seconds
- Jaws reversible for max./min. clamping widths with one pair of jaws
- Location holes for ATORN zero-point clamping system, depth gauge 200 mm, as standard
- Mounting on machine table with through bolts/ fitting screws in 50/63 mm increments
- Fastening also possible with adjustable clamps
- Low weight (without jaws): TCA 70 K (27592 101) = 17.5 kg TCA 70 M (27592 102) = 19.5 kg

Scope of delivery:

- ATORN TCA 70 without jaws
- Quick start guide
- Hook eye for transport by crane hook
- Hand crank for presetting with hexagon socket AF 14 mm

Applications

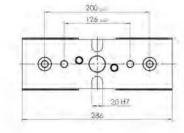
Ideal for use on 5-axis machining centres. Operation with torque wrench/max. 45 Nm = 30 kN clamping force.

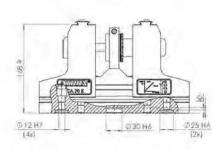
Note:

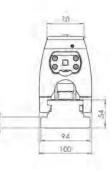
For suitable torque wrench, 1/2 inch, see art. no. 55640 204. For suitable hexagon screwdriver bit see art. no. 51424 120.











Туре	Total length mm	Basic body height mm	Workpiece support height smooth mm/grip mm	Clamping width smooth/grip mm	Groove widths mm (H7)	Max. clamping force kN	Max. required torque Nm	27592	
TCA 70 K	286	168.9	185/191 / 185/192	9-135*/9-134*	20	30	45		101
TCA 70 M	351	168.9	185/191 / 185/192	42-200* / 42-199*	20	30	45		102

*Different clamping steps

For accessories see next page

Accessories for 5-axis clamp, TCA 70

27592 Continued



Stepped jaws

27592 103-105

- Stepped jaws
- Steps are hardened and coated
- For parallel workpieces
- Contents: 1 piece

	Stepped jaw (2nd clamping)	
Jaw width	27592	
mm		
38		103
70		104
100		105

Grip jaws

27592 106-108

Grip jaws

- Clamping of unmachined parts
- Integrated row of grips in horizontal position
- to prevent vibration when parts are placed on edge
- Additional clamping surfaces ground on both sides
- Minimum lost clamping edge 4 mm
- Suitable for material up to 1000 N/mm²
- Contents: 1 piece

	Grip jaw (1st clamping)	
Jaw width	27592	
mm		
38		106
70		107
100		108

Prism jaw

27592 109

- Vee block jaw
- Clamping width at TCA 70 K (27592 101):
- horizontal: 10-40 mm
- vertical: 16 80 mm
- Clamping width at TCA 70 M (27592 102):
- horizontal: 10–40 mm vertical: 47 - 110 mm
- Contents: 1 piece
- Contents. T piece

	Vee block jaw
Jaw width	27592
mm	
70	109

Soft jaws

27592 110-111

- Soft jaws
- For self-production of special jaws
- Max. machining depth 15 mmContents: 1 piece

27592 110 Design Material: Case-hardening steel 21MnCr5G

27592 111 Design Material: AlZn5.5MgCu

		Soft jaw
Jaw width mm	Material	27592
120	Steel	110
120	Aluminium	111







NEW



27592 107











27592 111



Continued

27.33

Accessories for 5-axis clamps | 5-axis compact clamps

27592

Continued

Accessories for 5-axis clamp, TCA 70



Workpiece stops

27592 112 Design - Mechanical, complete

27592 113 Design - Magnetic, complete

Version	27592
Mechanical	112
Magnetic	113

Adjustable clamps (pair)

27592 114

- For mounting the clamp on the
- machine table
- Delivery: 1 pair

Thread	27592
M 10/12/16	114

Alignment and fixing sets

27592 115-117

For aligning (positioning) and mounting the clamp on a pallet or machine table.

Groove size mm	Thread	27592
14	M 12	115
16	M 12	116
18	M 12	117

Alignment and fixing sets including mounting base

27592 118-122

For aligning (positioning) and mounting the clamp on a pallet or machine table.

Groove size mm	Thread	27592	
12	M 10		118
14	M 12		119
16	M 14		120
18	M 16		121
22	M 16		122

Thread

M 12

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Shoulder screw

27.34

Ø

mm 12

HIN,



27592 114

NEW



27592 115-117



27592 118-122



27592 123



27592

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123

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ATORN 5-axis compact clamp

Design

Sturdy, compact basic body (GGG60). Guideways inductively hardened and ground. Maintenance-free, enclosed high-pressure spindle with retensioning spring assembly. Precise aligning grooves. Optimised chip protection. Minimal cleaning effort. Mechanical/mechanical clamping system.

Advantages:

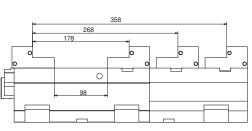
- Max. accessibility during machining

27590

- Patented quick adjustment
- Little clamping loss even when clamping close to the edge
- Very low clamping loss even when clamping with grip inserts
- Stepped jaws with clipping devices for underlay bars

Applications

For 5-axis machines or on CNC machines. Safe and fast clamping of blanks. Exchangeable grip jaws for flame and saw cuts.

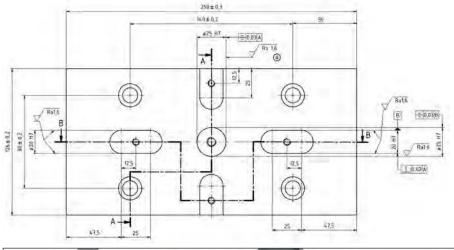


Scope of delivery, basic body:

- Without jaws
- Including 4 adjustable clamps
- Scope of delivery, substructure console: - Without fastening material



Basic body art. no. 27590 101 Height mm: 100 Width mm: 126 Body length mm: 250 Total length mm: 273 Clamping force at 110 Nm kN: 40





Substructure console art. no. 27590	104
Height mm:	100
Width mm:	126
Body length mm:	250



27590 201

27590 202 27590 203

27590 204 27590 301

27590 401 27590 402

27590 501-502 27

27590 601 27590 602



Design	Dimensions H x W x L mm	Clamping width mm	Pieces	27590	
Basic body including accessories	100 x 126 x 250	-	1		101
Substructure console	100 x 126 x 250	-	1		104
Stepped jaws, fixed	39.5 x 125 x 78	0-178	2		201
Stepped jaw, movable	39.5 x 125 x 78	0-178	1		202
Grip jaw, fixed	25 x 160 x 105	10-202	1		203
Grip jaw, movable	25 x 160 x 105	10-202	1		204
Pendulum jaw with 2 grip inserts	20 x 156 x 65	6-168	1		301
Screw-on grip strips	19.5 x 125 x 5	39-172	2		401
Screw-on grip strips	39.5 x 125 x 6.4	5-82	2		402
Step strips for clipping	15-125	10-178	2		501
Step strips for clipping	35-125	10-178	2		502
Screw-on jaws for large clamping widths	15 x 125 x 45	75-240	2		601
Screw-on jaws for narrow workpieces	15 x 60 x 45	7-168	2		602

#37.35

27590 101

27591

🛞 SPREITZER 27591 101-106

Design

- Robust steel design - Basic body, plain jaws and spindle
- surface-hardened - High clamping force
- Compact design
- Maximum freedom of movement for 5-sided and multi-sided machining
- Centring accuracy 0.03 mm
- Mounting drilling template on the underside.

Scope of delivery:

- Includes 1 pair of hard stepped jaws with undercut
- 1 operating key

Jaw width mm	L mm	H mm	H1 mm	H2 mm	Clamping width mm	Clamping force kN	AF mm	Weight approx. kg	27591	
36	80	50	39	48	4-40	8.0	8	1		101
60	170	82	63	80	18-90	12.5	12	4		103
100	280	114	90	112	50-190	22.5	15	15		105
125	360	140	110	138	58-250	32.5	18	30		106

Mechanical centric clamp, MZE

Applications

Specially designed for clamping and machining of

unmachined parts on multi-axis machining centres

and for use as an economical centric clamping

solution on palletising or automation systems.

Short clamping jaws, hardened

27591 201-206 Applications	Jaw width mm	Clamping depth mm	27591	
- For form-fit clamping of	36	4		201
workpieces during roughing	60	4		203
- 15° undercut (dovetail),	100	4		205
maximum retention force on workpiece	125	4		206

Grip jaws, hardened and coated

27591 211-216 Applications - For increasing the retention forces on	Jaw width mm	Clamping depth mm	27591	
workpiece blanks	36	4		211
	60	4		213
	100	4		215
	125	4		216

Interchangeable jaw grips, hardened and ground

27591 223-226					
Applications - Increased clamping position allows the use of short	Jaw width mm	H1 mm	Clamping width mm	27591	
tools, especially for small workpieces	60	20	7-42		223
- Suitable for holding all standard clamping jaws and	100	28	7-146		225
self-manufactured jaws	125	40	7-195		226

Substructure

27591 233-235

Clamping technology

Scope of delivery: Includes centring bolts and fastening screws.

Applications - For collision-free machining with short	Jaw width mm	L mm	W mm	H mm	27591	
tools	60	170	160	78		233
- To reduce the Z movement of the	100	280	160	78		235
machine spindle						

Jaw width

mm

60

100

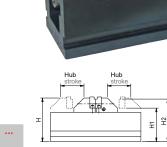
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Fastening material

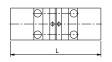
27591 243-246

- Scope of delivery:
- 2 centring pins, d = 14 mm; 4 adjustable clamps; 4 screws, M 12; 4 T-sliding blocks, 14 mm.
- Applications
- For mounting the centring clamp MZE on the machine table
- T-groove dimension 14 mm.

HH







27591 201-206



27591 211-216



27591 223-226



27591 233-235



27591 243-246





27591

243

245

246

27.36

ena/P

27591 101-106

Mechanical centre clamping device

<u>ATORN</u>®

27595

Design

- Robust steel design

- Basic body hardened and ground. spindle nitrided
- Compact design, high clamping force
- Sturdy chip guard and scraper to protect the
- spindle and spindle nut against dirt and damage - Centring and repeat accuracy 0.02 mm
- Mounting of the vice:
- From above through the basic body
- From below with threads in the basic body
- With adjustable clamps

Advantage:

- The precise grinding height means the clamp can also be mounted in series

Applications

Ideal for 5-sided machining or for use as an economical solution on palletising or automation systems.

Scope of delivery:

- Basic body with plain jaw set for ATORN interchangeable jaw click system (art. no. 27870)

Note:

Supplied without interchangeable jaw grips.



					(Centre clamping device	- 4	Adjustable clamp	
Basic body W x D x H mm	System	Max. clamping range* mm	Width of interchangeable jaw grips minmax. mm	Clamping force max. kN	Torque max. Nm	27595		27595	
90 x 180 x 45	2	96	65-180	30	80		101		
125 x 250 x 66	3	152	80-250	40	100		102		
For screw M 10	-	-	-	-	-				110
For screw M 12	-	-	-	-	-				111



_						
To	r٩	IIA	w	rer	ncł	

				Torque Michell	
Driving square	Adjustment range	Scale graduation	Length	55640	
inch	Nm	Nm	mm		
1/2	20-120	1	456		



			Hex socket wrench insert	
AF	Length	Outer Ø	51222	
mm	mm	mm		
15	30	20.8		110



Interchangeable jaws

- Quick-change system can be adapted for use with

- Mounting, guide and lock offer a high degree of

- Interchangeable jaw grips made of high-strength

- Plain jaws and stepped jaws nitrided

aluminium or case-hardening steel

27870 **ATORN**

many common vices

production safety

Design

Interchangeable jaws (single)

Advantage:

- Unprecedented economy and measurable
- advantages in daily use
- Quick change, even of special jaws
- Jaws in the system compatible with one another
- Jaw width up to 400 mm

Note:

Plain jaw sets also deliverable for other vice types on request.





Plain jaw set

Vice Type Design mm For system 27870 ATORN MM-G 125 3 101 ATORN MM-G 160 4 102 ATORN Saxis clamp 125 3 1142 Allmatic Centro Grip 125 3 103 Allmatic Du Plus 125 3 104 Allmatic L//T from May 98 125 3 105 Allmatic L//T from May 98 125 3 106 Allmatic T-Rex (XL) 125 3 107 Allmatic Trex (XL) 125 3 109 Arnold Arno NC Twin 125 3 111 Fresmak Arno Twin 90 2 112 Fresmak Arno Twin 125 3 111 Garant NC-1C 125 3 113 Gressel Centrinos 100 2 121 Gressel </th <th></th> <th></th> <th></th> <th></th> <th></th>					
ATORN MM-G 160 4 102 ATORN 5-axis clamp 125 3 142 Allmatic Centro Grip 125 3 103 Allmatic Duo Plus 125 3 103 Allmatic LC/TC tro to April 98 125 3 106 Allmatic L/C/TC from May 98 125 3 106 Allmatic T-Rex (XL) 125 3 109 Allmatic Tifan 125 3 109 Arnold Arno NC Twin 125 3 109 Armold Arno NC Twin 125 3 111 Fresmak Arno Min 90 2 112 Graant NC-LC 125 3 113 Graant NC-TC 125 3 119 Gressel Centrinos 65 2 116 Gressel Centrinos 100 3 121 Gressel Gripos </th <th>Vice</th> <th>Туре</th> <th>•</th> <th>For system</th> <th>27870</th>	Vice	Туре	•	For system	27870
ATORN 5-axis clamp 125 3 142 Allmatic Centro Grip 125 3 103 Allmatic Duo Plus 125 3 104 Allmatic LC/TC top to April 98 125 3 105 Allmatic LC/TC trom May 98 125 3 106 Allmatic T.Rex (14 mm groove) 125 3 107 Allmatic T.Rex (XL) 125 3 108 Allmatic Titan 125 3 108 Almod Arno NC Twin 125 3 110 Fresmak Arno Twin 90 2 112 Fresmak Arno Twin 125 3 113 Garant NC-LC 125 3 114 Garant NC-LC 125 3 116 Gressel Centrinos 65 2 116 Gressel Duogrip (all types) 100 3 121 Gressel	ATORN	MM-G	125	3	101
Allmatic Centro Grip 125 3 103 Allmatic Duo Plus 125 3 104 Allmatic L(7TC up to April 98 125 3 105 Allmatic L(7TC up to April 98 125 3 105 Allmatic T-Rex (14 mm groove) 125 3 107 Allmatic T-Rex (XL) 125 3 108 Allmatic Tran 125 3 109 Arnold Arno NC Twin 125 3 110 Fresmak Arno Twin 90 2 112 Fresmak Arno Twin 125 3 113 Garant NC-LC 125 3 114 Gressel Centrinos 65 2 116 Gressel Duogrip (all types) 100 3 121 Gressel Diogrip (all types) 125 3 122 Gressel Gripos 100 3 121	ATORN	MM-G	160	4	102
Allmatic Duo Plus 125 3 104 Allmatic LC/TC up to April 98 125 3 105 Allmatic LC/TC from May 98 125 3 106 Allmatic LC/TC from May 98 125 3 106 Allmatic TRex (14 mm groove) 125 3 108 Allmatic TRex (XL) 125 3 109 Arnold Arno NC Twin 125 3 110 Fresmak Arno MB2 125 3 111 Fresmak Arno Twin 90 2 112 Garant NC-LC 125 3 113 Garant NC-TC 125 3 116 Gressel Centrinos 65 2 116 Gressel Congrip (all types) 100 3 121 Gressel Duogrip (all types) 125 3 120 Gressel Gripos 125 3 122	ATORN	5-axis clamp	125	3	142
Allmatic LC/TC up to April 98 125 3 105 Allmatic LC/TC from May 98 125 3 106 Allmatic T-Rex (14 mm groove) 125 3 107 Allmatic T-Rex (14 mm groove) 125 3 109 Allmatic Tran 125 3 109 Arnold Arno NC Twin 125 3 110 Fresmak Arno MB2 125 3 111 Fresmak Arno Twin 90 2 112 Fresmak Arno Twin 125 3 111 Grant NC-LC 125 3 114 Garant NC-LC 125 3 116 Gressel Centrinos 65 2 116 Gressel Duogrip (all types) 125 3 120 Gressel Gropo SX 125 3 120 Gressel Gripos 125 3 122 Hilma <td>Allmatic</td> <td>Centro Grip</td> <td>125</td> <td>3</td> <td>103</td>	Allmatic	Centro Grip	125	3	103
Allmatic LC/TC from May 98 125 3 106 Allmatic T-Rex (14 mm groove) 125 3 107 Allmatic T-Rex (XL) 125 3 108 Allmatic Titan 125 3 108 Allmatic Titan 125 3 109 Arnold Arno NC Twin 125 3 111 Fresmak Arno MB2 125 3 111 Fresmak Arno Twin 90 2 112 Fresmak Arno Twin 125 3 111 Garant NC-LC 125 3 111 Gressel Centrinos 65 2 116 Gressel Duogrip (all types) 100 3 118 Gressel Gripos 100 3 121 Gressel Gripos 100 3 122 Hilma DS/TS 125 3 126 Hilma DS/TS	Allmatic	Duo Plus	125	3	104
Alimatic T-Rex (14 mm groove) 125 3 107 Alimatic T-Rex (XL) 125 3 108 Alimatic Titan 125 3 109 Arnold Arno NC Twin 125 3 109 Arnold Arno NC Twin 125 3 111 Fresmak Arno Twin 90 2 112 Fresmak Arno Twin 90 2 112 Fresmak Arno Twin 125 3 113 Garant NC-C 125 3 115 Gressel Centrinos 65 2 116 Gressel Duogrip (all types) 100 3 118 Gressel Gripos 125 3 120 Gressel Gripos 125 3 122 Gressel Gripos 125 3 122 Hilma DS/TS 125 3 126 Hilma DS/TS	Allmatic	LC/TC up to April 98	125	3	105
Allmatic T-Rex (XL) 125 3 108 Allmatic Titan 125 3 109 Arnold Arno NC Twin 125 3 110 Fresmak Arno MB2 125 3 111 Fresmak Arno MB2 125 3 111 Fresmak Arno Twin 90 2 112 Garant NC-LC 125 3 113 Garant NC-TC 125 3 116 Gressel Centrinos 65 2 116 Gressel Duogrip (all types) 100 3 118 Gressel Grepos 5X 125 3 120 Gressel Gripos 100 3 121 Gressel Gripos 125 3 122 Hilma DCS 80 2 123 Hilma DS/TS 100 3 127 Hilma DS/TS 100	Allmatic	LC/TC from May 98	125	3	106
Allmatic Titan 125 3 109 Arnold Arno NC Twin 125 3 110 Fresmak Arno MB2 125 3 111 Fresmak Arno Twin 90 2 112 Fresmak Arno Twin 125 3 113 Garant NC-LC 125 3 114 Garant NC-TC 125 3 115 Gressel Centrinos 65 2 116 Gressel Centrinos 100 2 117 Gressel Duogrip (all types) 100 3 118 Gressel Grepos 5X 125 3 120 Gressel Gripos 100 3 121 Gressel Gripos 125 3 122 Hilma DCS 80 2 123 Hilma DS/TS 125 3 126 Hilma KNC 125 3 </td <td>Allmatic</td> <td>T-Rex (14 mm groove)</td> <td>125</td> <td>3</td> <td>107</td>	Allmatic	T-Rex (14 mm groove)	125	3	107
Arnold ArnoNC Twin1253110Fresmak ArnoMB21253111Fresmak ArnoTwin902112Fresmak ArnoTwin1253113GarantNC-LC1253113GarantNC-TC1253116GresselCentrinos652116GresselCentrinos1002117GresselDuogrip (all types)1003118GresselGrepos 5X1253120GresselGripos1003121GresselGripos1003121GresselGripos1003121GresselGripos1003121GresselGripos1253120GresselGripos1253120GresselGripos1253122HilmaDS/TS1002123HilmaSCS802124HilmaKNC1253128HilmaKNC1253133RöhmRKD1253133RöhmRK/Z1253134RöhmRKZ1253138RöhmRKZ1253138WNTDSG1253138WNTNCG1253139	Allmatic	T-Rex (XL)	125	3	108
Fresmak Arno MB2 125 3 111 Fresmak Arno Twin 90 2 112 Fresmak Arno Twin 125 3 113 Garant NC-LC 125 3 114 Garant NC-TC 125 3 115 Gressel Centrinos 65 2 116 Gressel Duogrip (all types) 100 2 117 Gressel Duogrip (all types) 125 3 119 Gressel Duogrip (all types) 125 3 120 Gressel Grepos 5X 125 3 122 Gressel Gripos 100 3 121 Gressel Gripos 125 3 122 Hilma DCS 80 2 123 Hilma DS/TS 125 3 126 Hilma KNC 100 3 127 Hilma KNC 125	Allmatic	Titan	125	3	109
Fresmak Arno Twin 90 2 112 Fresmak Arno Twin 125 3 113 Garant NC-LC 125 3 114 Garant NC-LC 125 3 115 Gressel Centrinos 65 2 116 Gressel Centrinos 100 2 117 Gressel Duogrip (all types) 100 3 118 Gressel Drogrip (all types) 125 3 120 Gressel Grepos SX 125 3 121 Gressel Gripos 100 3 121 Gressel Gripos 100 3 122 Hilma DCS 80 2 123 Hilma DS/TS 100 2 125 Hilma DS/TS 125 3 126 Hilma KNC 100 3 127 Hilma SCS 80 2	Arnold Arno	NC Twin	125	3	110
Fresmak Arno Twin 125 3 113 Garant NC-LC 125 3 114 Garant NC-TC 125 3 115 Gressel Centrinos 65 2 116 Gressel Centrinos 100 2 117 Gressel Duogrip (all types) 100 3 118 Gressel Duogrip (all types) 125 3 119 Gressel Grepos 5X 125 3 120 Gressel Gripos 125 3 120 Gressel Gripos 125 3 122 Gressel Gripos 125 3 122 Hilma DCS 80 2 123 Hilma DS/TS 100 2 125 Hilma SCS 80 2 130 Hilma KNC 100 3 127 Hilma SCS 80 2	Fresmak Arno	MB2	125	3	111
Garant NC-LC 125 3 114 Garant NC-TC 125 3 115 Gressel Centrinos 65 2 116 Gressel Centrinos 100 2 117 Gressel Duogrip (all types) 100 3 118 Gressel Duogrip (all types) 125 3 119 Gressel Grepos 5X 125 3 120 Gressel Gripos 100 3 121 Gressel Gripos 125 3 122 Hilma CS 80 2 123 Hilma DCS 80 2 124 Hilma DS/TS 100 2 125 Hilma DS/TS 100 3 127 Hilma SCS 80 2 130 Hilma KNC 100 3 127 Hilma SCS 80 2 130 </td <td>Fresmak Arno</td> <td>Twin</td> <td>90</td> <td>2</td> <td>112</td>	Fresmak Arno	Twin	90	2	112
Garant NC-TC 125 3 115 Gressel Centrinos 65 2 116 Gressel Centrinos 100 2 117 Gressel Duogrip (all types) 100 3 118 Gressel Duogrip (all types) 125 3 119 Gressel Grepos 5X 125 3 120 Gressel Gripos 100 3 121 Gressel Gripos 125 3 122 Hilma CS 80 2 123 Hilma DCS 80 2 124 Hilma DS/TS 100 2 125 Hilma DS/TS 125 3 126 Hilma KNC 100 3 127 Hilma KNC 125 3 128 Hilma SCS 80 2 130 Hilma SCS 120 3 131 <td>Fresmak Arno</td> <td>Twin</td> <td>125</td> <td>3</td> <td>113</td>	Fresmak Arno	Twin	125	3	113
Cressel Centrinos 65 2 116 Gressel Centrinos 100 2 117 Gressel Duogrip (all types) 100 3 118 Gressel Duogrip (all types) 125 3 119 Gressel Grepos 5X 125 3 120 Gressel Gripos 100 3 121 Gressel Gripos 125 3 122 Hilma CS 80 2 123 Hilma DCS 80 2 124 Hilma DS/TS 100 2 125 Hilma DS/TS 125 3 126 Hilma DS/TS 125 3 126 Hilma KNC 100 3 127 Hilma KNC 100 3 127 Hilma SCS 80 2 130 Hilma SCS 80 2 132	Garant	NC-LC	125	3	114
Gressel Centrinos 100 2 117 Gressel Duogrip (all types) 100 3 118 Gressel Duogrip (all types) 125 3 119 Gressel Grepos 5X 125 3 120 Gressel Gripos 100 3 121 Gressel Gripos 125 3 122 Hilma CS 80 2 123 Hilma DCS 80 2 124 Hilma DS/TS 100 2 125 Hilma DS/TS 125 3 126 Hilma DS/TS 125 3 126 Hilma KNC 100 3 127 Hilma KNC 100 3 127 Hilma KNC 125 3 128 Hilma KNC 120 3 131 Röhm KZS 120 3 133 </td <td>Garant</td> <td>NC-TC</td> <td>125</td> <td>3</td> <td>115</td>	Garant	NC-TC	125	3	115
Gressel Duogrip (all types) 100 3 118 Gressel Duogrip (all types) 125 3 119 Gressel Grepos 5X 125 3 120 Gressel Gripos 100 3 121 Gressel Gripos 100 3 122 Hilma CS 80 2 123 Hilma DCS 80 2 124 Hilma DS/TS 100 2 125 Hilma DS/TS 100 2 125 Hilma DS/TS 125 3 126 Hilma DS/TS 125 3 128 Hilma KNC 100 3 127 Hilma KNC 125 3 128 Hilma KNC 125 3 130 Hilma SCS 80 2 130 Hilma SCS 120 3 131	Gressel	Centrinos	65	2	116
Gressel Duogrip (all types) 125 3 119 Gressel Grepos 5X 125 3 120 Gressel Gripos 100 3 121 Gressel Gripos 125 3 122 Hilma CS 80 2 123 Hilma DCS 80 2 124 Hilma DS/TS 100 2 125 Hilma DS/TS 100 2 125 Hilma DS/TS 125 3 126 Hilma DS/TS 125 3 126 Hilma KNC 100 3 127 Hilma KNC 125 3 128 Hilma KNC 120 3 130 Hilma SCS 80 2 130 Hilma SCS 120 3 131 Röhm KZS 125 3 133	Gressel	Centrinos	100	2	117
Gressel Grepos 5X 125 3 120 Gressel Gripos 100 3 121 Gressel Gripos 125 3 122 Hilma CS 80 2 123 Hilma DCS 80 2 124 Hilma DS/TS 100 2 125 Hilma DS/TS 100 2 125 Hilma DS/TS 100 3 127 Hilma DS/TS 125 3 126 Hilma KNC 100 3 127 Hilma KNC 100 3 127 Hilma KNC 100 3 128 Hilma KNC 160 4 129 Hilma SCS 80 2 130 Hilma SCS 125 3 131 Röhm KZS 80 2 132 Röhm <	Gressel	Duogrip (all types)	100	3	118
Gressel Gripos 100 3 121 Gressel Gripos 125 3 122 Hilma CS 80 2 123 Hilma DCS 80 2 124 Hilma DCS 80 2 124 Hilma DS/TS 100 2 125 Hilma DS/TS 125 3 126 Hilma DS/TS 125 3 127 Hilma KNC 100 3 127 Hilma KNC 125 3 128 Hilma KNC 160 4 129 Hilma SCS 80 2 130 Hilma SCS 120 3 131 Röhm KZS 125 3 133 Röhm RKD 125 3 134 Röhm RKZ 125 3 137 Röhm RKZ	Gressel	Duogrip (all types)	125	3	119
Gressel Gripos 125 3 122 Hilma CS 80 2 123 Hilma DCS 80 2 124 Hilma DS/TS 100 2 125 Hilma DS/TS 125 3 126 Hilma DS/TS 125 3 126 Hilma KNC 100 3 127 Hilma KNC 100 3 127 Hilma KNC 125 3 128 Hilma KNC 160 4 129 Hilma SCS 80 2 130 Hilma SCS 120 3 131 Röhm KZS 125 3 133 Röhm KZS 125 3 133 Röhm RKE 160 4 136 Röhm RKZ 125 3 137 Schunk KSP-250. KSH	Gressel	Grepos 5X	125	3	120
Hilma CS 80 2 123 Hilma DCS 80 2 124 Hilma DS/TS 100 2 125 Hilma DS/TS 125 3 126 Hilma DS/TS 125 3 126 Hilma DS/TS 125 3 126 Hilma KNC 100 3 127 Hilma KNC 125 3 128 Hilma KNC 160 4 129 Hilma SCS 80 2 130 Hilma SCS 120 3 131 Röhm KZS 80 2 132 Röhm KZS 125 3 133 Röhm RKE 160 4 136 Röhm RKZ 125 3 137 Schunk KSP-250. KSH-250 125 3 138 WNT DSG </td <td>Gressel</td> <td>Gripos</td> <td>100</td> <td>3</td> <td>121</td>	Gressel	Gripos	100	3	121
Hilma DCS 80 2 124 Hilma DS/TS 100 2 125 Hilma DS/TS 125 3 126 Hilma DS/TS 125 3 126 Hilma DS/TS 125 3 126 Hilma KNC 100 3 127 Hilma KNC 125 3 128 Hilma KNC 160 4 129 Hilma SCS 80 2 130 Hilma SCS 120 3 131 Röhm KZS 80 2 132 Röhm KZS 125 3 133 Röhm RKD 125 3 134 Röhm RKZ 125 3 135 Röhm RKZ 125 3 137 Schunk KSP-250. KSH-250 125 3 138 WNT DSG<	Gressel	Gripos	125	3	122
Hilma DS/TS 100 2 125 Hilma DS/TS 125 3 126 Hilma DS/TS 125 3 126 Hilma KNC 100 3 127 Hilma KNC 125 3 128 Hilma KNC 125 3 128 Hilma KNC 160 4 129 Hilma SCS 80 2 130 Hilma SCS 120 3 131 Röhm KZS 80 2 132 Röhm KZS 125 3 133 Röhm RKD 125 3 134 Röhm RKE 160 4 136 Röhm RKZ 125 3 137 Schunk KSP-250. KSH-250 125 3 138 WNT DSG 125 3 139 WNT NCG <td>Hilma</td> <td>CS</td> <td>80</td> <td>2</td> <td>123</td>	Hilma	CS	80	2	123
Hilma DS/TS 125 3 126 Hilma KNC 100 3 127 Hilma KNC 100 3 127 Hilma KNC 125 3 128 Hilma KNC 160 4 129 Hilma SCS 80 2 130 Hilma SCS 120 3 131 Röhm KZS 80 2 132 Röhm KZS 125 3 133 Röhm RKD 125 3 134 Röhm RKE/RKG 125 3 135 Röhm RKZ 125 3 135 Röhm RKZ 125 3 137 Schunk KSP-250. KSH-250 125 3 138 WNT DSG 125 3 139 WNT NCG 125 3 140	Hilma	DCS	80	2	124
Hilma KNC 100 3 127 Hilma KNC 125 3 128 Hilma KNC 160 4 129 Hilma KNC 160 4 129 Hilma SCS 80 2 130 Hilma SCS 120 3 131 Röhm KZS 80 2 132 Röhm KZS 125 3 133 Röhm RKD 125 3 133 Röhm RKE/RKG 125 3 135 Röhm RKZ 125 3 135 Röhm RKZ 125 3 135 Röhm RKZ 125 3 137 Schunk KSP-250. KSH-250 125 3 138 WNT DSG 125 3 139 WNT NCG 125 3 140	Hilma	DS/TS	100	2	125
Hilma KNC 125 3 128 Hilma KNC 160 4 129 Hilma SCS 80 2 130 Hilma SCS 120 3 131 Röhm KZS 80 2 132 Röhm KZS 125 3 133 Röhm RKD 125 3 133 Röhm RKE/RKG 125 3 135 Röhm RKZZ 125 3 135 Röhm RKZ 125 3 135 Röhm RKZ 125 3 135 Röhm RKZ 125 3 137 Schunk KSP-250. KSH-250 125 3 138 WNT DSG 125 3 139 WNT NCG 125 3 140	Hilma	DS/TS	125	3	126
Hilma KNC 160 4 129 Hilma SCS 80 2 130 Hilma SCS 120 3 131 Röhm KZS 80 2 132 Röhm KZS 125 3 133 Röhm RKD 125 3 134 Röhm RKL 160 4 136 Röhm RKE/RKG 125 3 135 Röhm RKE/Z 125 3 135 Röhm RKZ 125 3 135 Röhm RKZ 125 3 135 Röhm RKZ 125 3 137 Schunk KSP-250. KSH-250 125 3 138 WNT DSG 125 3 139 WNT NCG 125 3 140	Hilma	KNC	100	3	127
Hilma SCS 80 2 130 Hilma SCS 120 3 131 Röhm KZS 80 2 132 Röhm KZS 125 3 133 Röhm RKD 125 3 133 Röhm RKL 125 3 135 Röhm RKE/RKG 125 3 135 Röhm RKE 160 4 136 Röhm RKZ 125 3 137 Schunk KSP-250. KSH-250 125 3 138 WNT DSG 125 3 139 WNT NCG 125 3 140	Hilma	KNC	125	3	128
Hilma SCS 120 3 131 Röhm KZS 80 2 132 Röhm KZS 125 3 133 Röhm RKD 125 3 133 Röhm RKD 125 3 134 Röhm RKE/RKG 125 3 135 Röhm RKE 160 4 136 Röhm RKZ 125 3 137 Schunk KSP-250. KSH-250 125 3 138 WNT DSG 125 3 139 WNT NCG 125 3 140	Hilma	KNC	160	4	129
Röhm KZS 80 2 132 Röhm KZS 125 3 133 Röhm RKD 125 3 134 Röhm RKE/RKG 125 3 135 Röhm RKE/RKG 125 3 135 Röhm RKZ 160 4 136 Röhm RKZ 125 3 137 Schunk KSP-250. KSH-250 125 3 138 WNT DSG 125 3 139 WNT NCG 125 3 140	Hilma	SCS	80	2	130
Röhm KZS 125 3 133 Röhm RKD 125 3 134 Röhm RKE/RKG 125 3 135 Röhm RKE/RKG 125 3 135 Röhm RKE 160 4 136 Röhm RKZ 125 3 137 Schunk KSP-250. KSH-250 125 3 138 WNT DSG 125 3 139 WNT NCG 125 3 140	Hilma	SCS	120	3	131
Röhm RKD 125 3 134 Röhm RKE/RKG 125 3 135 Röhm RKE 160 4 136 Röhm RKZ 125 3 137 Schunk KSP-250. KSH-250 125 3 138 WNT DSG 125 3 139 WNT NCG 125 3 140	Röhm	KZS	80	2	132
Röhm RKE/RKG 125 3 135 Röhm RKE 160 4 136 Röhm RKZ 125 3 137 Schunk KSP-250. KSH-250 125 3 138 WNT DSG 125 3 139 WNT NCG 125 3 140	Röhm	KZS	125		133
Röhm RKE 160 4 136 Röhm RKZ 125 3 137 Schunk KSP-250. KSH-250 125 3 138 WNT DSG 125 3 139 WNT NCG 125 3 140	Röhm	RKD	125	3	134
Röhm RKZ 125 3 137 Schunk KSP-250. KSH-250 125 3 138 WNT DSG 125 3 139 WNT NCG 125 3 140	Röhm	RKE/RKG	125	3	135
Schunk KSP-250. KSH-250 125 3 138 WNT DSG 125 3 139 WNT NCG 125 3 140	Röhm	RKE	160	4	136
WNT DSG 125 3 139 WNT NCG 125 3 140	Röhm	RKZ	125	3	137
WNT NCG 125 3 140	Schunk	KSP-250. KSH-250	125	3	138
	WNT	DSG	125	3	139
WNT ZSG 125 3 141	WNT	NCG	125	3	140
	WNT	ZSG	125	3	141







Continued

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Interchangeable jaws (single)

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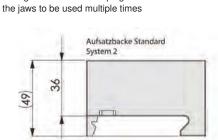
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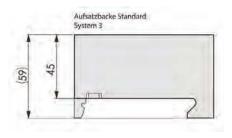
Design

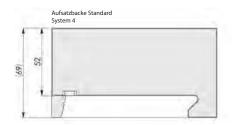
- Block interchangeable jaw grips made of highstrength aluminium or nitrided case-hardening steel
- Stepped jaws made of case-hardening steel

Advantage:

- Wide variety and many possible combinations - Milling down the old clamping contours enables







	nangeable jaw grips	1 piece	
System	Jaw width	27870	
2	mm 65		202
2			
-	70		205
2	80		209
2	90		215
2	100		221
2	150		228
2	160		237
2	180		243
2	200		247
3	80		210
3	90		216
3	100		222
3	125		229
3	140		233
3	160		238
3	180		244
3	225		251
3	250		254
4	80		211
4	100		223
4	125		230
4	160		239
4	200		248
4	250		255
4	300		257
4	400		259



Alu intercha	angeable jaw grips	1 piece	
System	Jaw width mm	27870	
2	65	2	201
2	70	2	204
2	80	2	206
2	90	2	213
2	100	2	218
2	125	2	225
2	160	2	234
2	180	2	241
3	80	2	207
3	90		214
3	100	2	219
3	125	2	226
3	140	2	232
3	160	2	235
3	180	2	242
3	200	2	245
3	225	2	250
3	250	2	252
4	80	2	208
4	100	2	220
4	125	2	227
4	160	2	236
4	200	2	246
4	250	2	253
4	300	2	256
4	400	2	258

Grip inserts

Design

- Optimal clamping results with workpieces that require short-term clamping

Advantage:

- High transmission of clamping forces at minimal clamping depths
- Optimum absorption of vibrations that can occur during machining
- Extension of the service life of the tools used







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Clamping
Clamping

	Grip insert			Grip insert
Size	27870		Size	27870
M 4 x 8		301	M 8 x 16	304
M 5 x 10		302	M 10 x 20	305
M 6 x 12		303	M 12 x 24	306

Note:

on position for your grip inserts.

Accessories

Accessone	5
2787	0
Lifting device for clamping jaws	401

Clamping systems 3AX and 5AX

Clamping systems 3AX-100 and 5AX-100

<u>ATORN</u>®

27669

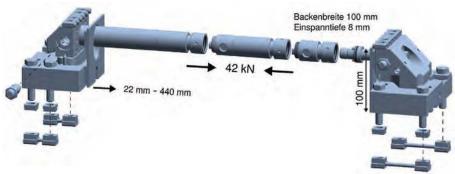
27669 301-302

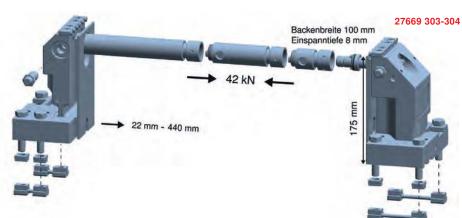
Design

- High clamping force (up to 42 kN) where it is required - Feed spindle immediately below the workpiece support
- No widening of the jaws under load
- No distortion of the machine table
- Extreme system rigidity
- Clamping depth of 3 or 8 mm
- 3- or 5-axis machining with no projecting edges
- Any clamping width

Applications

- For clamping workpieces on
- a 3- or 5-axis milling machine.





For groove	27669
mm	
14	301
18	302
14	303
18	304
	mm 14 18 14

Exter	nsion shaft with nut	
Length mm	27669	
60		305
120		306
240		307
480		308



For	Height increase to	27669	
clamp	mm		
3AX-100	125		309
3AX-100	150		310
5AX-100	200		311
5AX-100	225		312
5AX-100	250		313

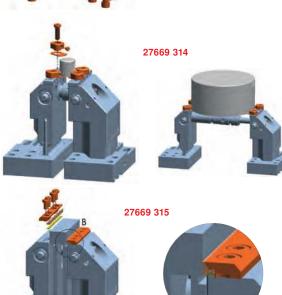




27669 305-308



Description	27669	
Round clamping chucks including pins,		
fastening material and support		314



Description	27669
Pull-down jaws, smooth	

eng/P

Continued



HIM

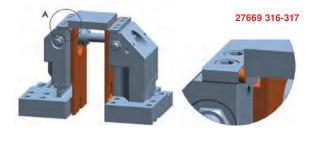
315

Clamping systems 3AX-100 and 5AX-100

Continued

27669

Designation	For clamp	27669	
Support strip, 105 mm,			
clamping depth 3 mm including 12 pins,			
ring cutter, 6 mm	3AX-100		316
Support strip, 180 mm,			
clamping depth 3 mm including 12 pins,			
ring cutter, 6 mm	5AX-100		317



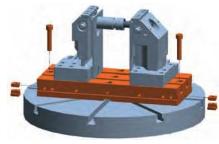


27669 318

Description	27669	
Stop set, swivelling		318

Designation	27669	
T-groove plate, 400 mm,		
including mounting for		
groove width 14 mm		319
T-groove plate, 400 mm,		
including mounting for		
groove width 18 mm		320

27	66	9	31	9.	-3	20



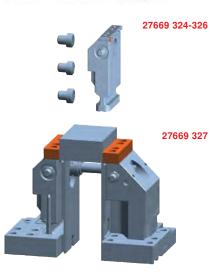


technology
Clamping t

Description	27669	
T-groove plate, 400 mm, with NP pin bore		323

Designation	27669	
Pin, smooth		324
Pin with ring cutter Ø 4 mm		325
Pin with ring cutter Ø 6 mm		326

Description	27669	•
Clamping jaw, rough	327	1



HIM

27.41



ZERO POINT

Your benefits at a glance!

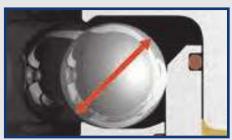
10 distinctive features give you priceless benefits. The sum of these benefits is a new product line that meets your requirements 100% with experience in zero point clamping technology since 1985.

Form fit!



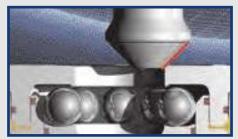
The balls are optimally enclosed on three sides.

Large ball diameter!



Ball surfaces 784% larger than conventional ball systems.

Large catchment!



Pre-positioning of 12 mm is sufficient.

- Secure the future by optimising the product quality (repeat accuracy up to 2 μm
- Increase the efficiency of processes
 to ensure competitiveness

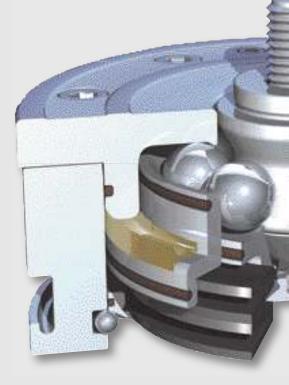
HW

 Increase profitability by minimising set-up costs, increasing product quality and protecting the machine

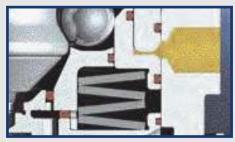
Stainless steel!



High-alloy hardened tool steel - so no corrosion.



Safety system!



Process-safe - The clamping module can always be opened.

- **Optimisation of production** through variability and flexibility with the market-leading system
- Precise and user-friendly clamping with maximum precision for a wide and demanding range of users

eng/P

Zero-point clamping system

Three-cycle principle!



Power transmission by means of three-stroke principle. Due to the optimum distribution of force, there is no shear stress on the balls.

No ball cage!



The balls lie freely in the ball channel. Due to the freedom of movement of the balls, they always reposition themselves.

High holding, retraction and sealing forces!



	Holding	Retraction/sealing	g force up to [kN]
size	force [kN]	hydr.	pneum.
K 5	[kN] 13	5	1.5
K 10	25	10	8
K 20	55	20	17
K 40	105	40	30

Tilt-free!



Tilt-free retraction and extension over the own supporting edge.

Optimum safety

even under difficult operating conditions for the demanding user

 Individual adaptation to the various tasks in order to meet the diverse requirements of the market

RE

Media supply system!

Low installation depth, fewer supply holes required.

- Sustainability and longevity outstanding product quality and precision ensure the long-term success of the company
- Technology transfer through optimal consulting achieves success with difficult machining tasks, especially with 6-sided machining

HIN,

27.43

Zero point clamping system

<u>Atorn</u>®

- Cover and piston hardened

cal and chemical industries.

- Repeat accuracy < 0.005 mm

- Open operating pressure: min. 50 bar to

Zero-point clamping system for clamping with

optimised setup time, for cutting and non-cutting

machining in all areas and in the food, pharmaceuti-

Design

- Hydraulic opening

max. 60 bar

Applications

- Pneumatic blow-out

27830 - 27845 Integrated clamping modules K10.2 and K20

Note:

The integrated clamping module K10.2 is opened via the air hydraulic pump (optional, see art. no. 27843 201) with pneumatic input pressure of 5 bar.

The clamping module has high retention, retracting and locking forces. It is opened hydraulically (1) and locked mechanically by spring force. Subsequent uncoupling of the pressure lines is possible at any time (module is clamped without pressure).

The clamping module with blow-out and support control has two connections: 1x hydraulic opening (1), 1x pneumatic blow-out and support control (3). (The pneumatic blow-out and support control can be connected optionally.)



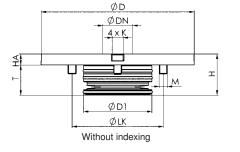
Rost frei

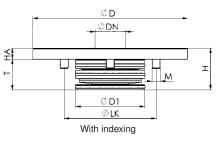




With indexing

K10.2





													K10.2	
Design	Retention force	Retracting/	D	DN	D1	Н	HA	LK	М	K	т	Weight	27830	
	N	locking force kN	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg		
K10.2/without indexi	ng 25	10	112	22	50	30	8	77	M6	-	22	0.6		201
K10.2/with indexing	25	10	112	22	50	30	8	77	M6	8	22	0.6		202

													K20	
Design	Retention force	Retracting/	D	DN	D1	Н	HA	LK	М	K	т	Weight	27845	
	N	locking force kN	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg		
K20/without indexin	g 55	20	112	32	78	44	10	88	M6	-	34	1.4		101
K20/with indexing	55	20	112	32	78	44	10	88	M6	8	34	1.4		201



ena/P

Multiple clamping stations, K10.2



27831

Design

- Hydraulic unlocking
- Pneumatic blow-out
- Steel, unhardened
- Repeat accuracy < 0.005 mm

Advantage:

- Low overall height of just 36 mm

Applications

Hydraulic clamping stations for clamping with optimised setup time on machine tables with 63, 100 and 125 mm groove spacing. Mounted using M12 cheese head screws. At least two locating holes are provided for alignment. The pitch of the clamping modules is 200 mm. The quick-action coupling plug is pre-assembled and the integrated blow-out function can be connected individually.

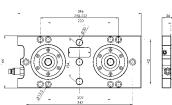
NEW

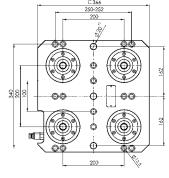


27831 202

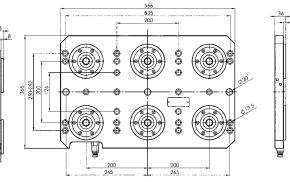
27831 203







Multiple clamping stations, K20



				K10.2	
Design	Retraction/	Retention force	Weight	27831	
	locking force up to kN	kN	kg		
K10.2/2x	2 x 10	2 x 25	14		201
K10.2/4x	4 x 10	4 x 25	30		202
K10.2/6x	6 x 10	6 x 25	46		203



Design

- Hydraulic unlocking - Steel, unhardened
- Repeat accuracy < 0.005 mm

Note:

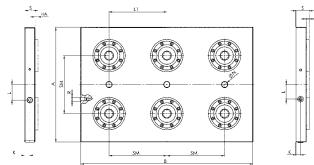
On request, mounting holes can be created in the base plate according to your specifications.





27846 201

27846 101 \odot Θ 5 è O) \odot 0 0 6 SM B



														K 20	
Design	Retraction/	Retention force	Α	В	HA	K	L	L1	Ν	R	S	SM	Weight	27846	
	locking force up to kN	kN	mm	mm	mm	mm	mm	mm	mm		mm	mm	kg		
K20/2x	2 x 20	2 x 55	196	396	10	19	45	180	20	G1/4	46	200	21.9		101
K20/4x	4 x 20	4 x 55	396	396	10	19	50	180	20	G1/4	46	200	44.0		201
K20/6x	6 x 20	6 x 55	396	596	10	20	50	200	20	G1/4	46	200	75.0		301

H M

27.45

27836 - 27847 Replacement pallets for K10.2 and K20 NEW 27836 202 B SN Design - High-strength aluminium - Including clamping nipple and nipple 0 0]] catchment screw SM Note: \odot 0 · o]]] On request, mounting holes can be drilled into the replacement pallet according to your specifications. 5 as c 🛶 🖌 S Different dimensions, pitches and number of

Different dimensions, pitches and number of clamping nipples deliverable on request.

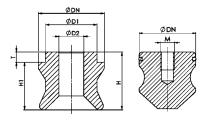
, , , , ,	,							K10.2	K20	
For clamping station	Α	В	L	R	S	SM	Weight	27836	27847	
Size/design	mm	mm	mm		mm	mm	kg			
K10.2/2x	166	396	90	M12	30	200	6	201		
K10.2/4x	366	366	200	M12	30	200	10	202		
K10.2/6x	366	566	200	M12	30	200	16	203		
K20/2x	196	396	120	M12	40	200	6			101
K20/4x	396	396	200	M12	40	200	16			201
K20/6x	396	596	200	M12	40	200	25			301

27837 - 27848

Clamping nipples



- Hardened, for hydraulic and pneumatic clamping modules





										K10.2		K20	
Size	Туре	ØDN	ØD1	ØD2	н	H1	М	Т	Weight	27837		27848	
		mm	mm	mm	mm	mm	mm	mm	g				
K10.2	Zero-point nipple	22.0	15	8	19	16	-	3	30		201		
K10.2	Sword nipple	22.0	15	8	19	16	-	3	30		202		
K10.2	Undersize nipple	21.8	15	8	19	16	-	3	30		203		
K10.2	Protection nipple	21.8	-	-	-	-	M8	-	30		204		
K20	Zero-point nipple	32.0	25	12	28	23	-	5	110				101
K20	Sword nipple	32.0	25	12	28	23	-	5	110				102
K20	Undersize nipple	31.8	25	12	28	23	-	5	110				103
K20	Protection nipple	31.8	-	-	-	-	M8	-	110				104

27838 - 27849

Μ

mm

M8

M12

L

mm

37

54

L1

mm

6

9

Weight

g

30

70

Nipple catchment screws

ATORN Design - Strength class 10.9

Size

K10.2

K20

Applications

Suitable for clamping nipples.

K10.2

27838

Note:

Versions in different lengths and materials (e.g. stainless steel) on request.

....

201

K20

101

27849













27.46

HIM

High-pressure hose

NEW

Design

27840

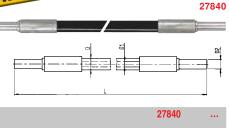
TDRN

- Fitting made of steel, zinc-plated and passivated - Plastic hose with brass-plated steel wire and high tensile strength

Applications

The high-pressure hose is used for the hydraulic connection of surface-mounted clamping modules or clamping stations to the pressure generator, e.g. pressure booster or air hydraulic pump. Bending radius min. 30 mm.

Flat-sealing quick-action coupling with female



Size	Test pressure	Operating pressure	ØD	ØD1	ØD2	L	Weight
	bar	bar	mm	mm	mm	mm	g
K10.2/K20	750	375	9.8	5	8	2000	265

Note:

thread G1/4.

27841 T(), R/L

Quick-action coupling

Design

 Zinc-plated - Max. operating pressure 325 bar

Applications

Because the clamping modules are mechanically locked after the opening pressure is released, the hose can then be uncoupled using the quick-action couplings. The advantage is that there are no annoying leads.

27841 202 thread G1/4. A set screw is included for male 48,2 10

> G1/4 SW 22

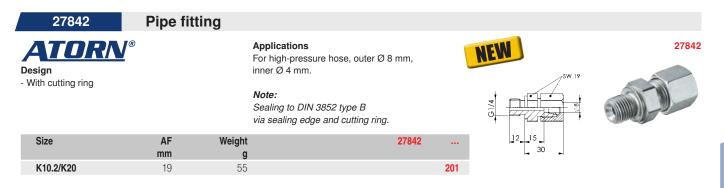
NEW

H			
	54,8	•	
4			¢.28
SW 22 G1/4			

201

27841 201

Size	Туре	Nominal width NW	Nominal flow I/min	AF mm	Weight g	27841	
K10.2/K20	Plug	6	12	22	100	2	01
K10.2/K20	Sleeve	6	12	22	170	2	02



27843

Air hydraulic pump

TDRA

Design

- Compact, compressed air operated hydraulic pump for single-acting circuits
- The pump is equipped with an integrated safety valve which regulates the hydraulic output pressure
- The factory default setting for the safety valve is a max. operating pressure of 60 bar
- The expansion body in the oil tank enables the pump to be used horizontally and vertically
- Connecting thread, air: G1/4
- Connecting thread, oil: G1/4

Applications

The air hydraulic pump is used to open hydraulic clamping modules or hydraulic clamping stations.

Note:

When operating the pump, the use of cleaned and lubricated compressed air is recommended.





Inlet, air	Output, hydrai

Usable oil volume **Delivery volume** Size Air pressure min. Air pressure max. Weight 27843 bar cm³ max. cm³/min bar kq K10.2/K20 6 1000 750 5.9 201 4

H M 27.47

27701 Force measuring cell for machine vices Note: Applications For more force measuring cells, see HHW catalogue For monitoring the clamping force. volume 2 (Tools + Machines) art. no. 38801.

clamping possible.

For use on vices. Easily screwed onto ROHM NC

compact clamps. Simple and secure clamping of

parallel blanks and sawn parts. Hydraulic or manual



For jaw width mm	Display range kN	27701	
100/125/160	0-60		101

27680 RŷHM

Design

Applications

Claw jaw sets, SKB

Form-fit clamping due to penetration of the hardened claw tips. Retention force 3-5 times higher than with standard jaws. 5-sided machining

in one clamping operation, low material loss, shortened throughput times, reduced production and

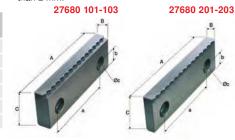
unit costs.

Fine step	Clamping depth	Α	В	С	а	b	Øc	27680	
		mm	mm	mm	mm	mm	mm		
х	Less than 2 mm	92	14	32	63	13.6	7 (M 6)		101
х	Less than 2 mm	125	16	40	80	15.6	9 (M 8)		102
Х	Less than 2 mm	160	18	50	100	19.6	9 (M 8)		103
-	More than 2 mm	92	14	32	63	13.6	7 (M 6)		201
-	More than 2 mm	125	16	40	80	15.6	9 (M 8)		202
-	More than 2 mm	160	18	50	100	19.6	9 (M 8)		203

27680 101-103 Desian With fine step for clamping depth to 2 mm.

27680 201-203

Design Without fine step for clamping depth greater than 2 mm.



27682 RÔHM

Design

Suitable for

27683

27684

T-aroove 12

14

Applications

Single adjustable clamps for NC clamps

For art. no. 27655, 27656.



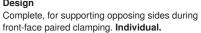
27682	Suitable for T-groove
201	16
202	18

Double adjustable clamp for NC clamps

Applications

RÇHM

Design



Complete, for front and base mounting. Individual.



27682

203

204

201

101



Clamping technolog

Workpiece stop for NC clamps

Applications

For art. no. 27655

Design Connecting thread M 12, universally adjustable.







= The specified prices are unit prices. Only sold in the specified packing units. Always specify number of units in order information.



Multiple clamping rails (sets)

27750 208

ATORN® Design

Multiple clamping system based on the wedge clamping device principle. Simple yet precise design. Extension of the clamps by means of a connecting system, resulting in optimum utilisation of the machine table. Excellent price/performance ratio.

Applications

Fast and precise clamp for all machine tools. Advantage:

- All components of the system are compatible
- Can also be used on the ATORN zero-point
- clamping system
- Completely flexible

- Easy-to-mount stop system
- Solve all clamping tasks with one clamping system
- Replaces any vice

Note:

Very high clamping forces can be generated with the wedge clamping device. However, workpieces that only allow a low clamping force can also be clamped without any problems.

The clamping elements are mounted on the rail. Other combinations must be assembled individually. See art. no. 27751–27754.



Clamping rail L x W x H mm	Jaws L x W x H mm	Fixed jaw (pieces)	Wedge clamping device (pieces)	27750	
200 x 50 x 80	50 x 42 x 22	2	1		201
200 x 80 x 80	72 x 42 x 29	2	1		202
300 x 50 x 80	50 x 42 x 22	3	2		203
300 x 80 x 80	72 x 42 x 29	3	2		204
400 x 50 x 80	50 x 42 x 22	3	2		205
400 x 80 x 80	72 x 42 x 29	3	2		206
500 x 50 x 80	50 x 42 x 22	3	2		207
500 x 80 x 80	72 x 42 x 29	3	2		208

27751

Length

mm

200

200

300

300

400

400

500

500

ATORN[®]

Width

mm

50

80

50

80

50

80

50

80

Height

mm

80

80

80

80

80

80

80

80

27751

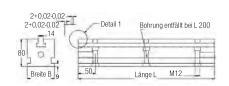
Multiple clamping rails (individual)

Design

Without jaws (see art. no. 27752) and wedge clamping device (see art. no. 27753).

Note:

For additional accessories, see art. no. 27754.





27752

ATORN[®]

Design Includes sliding block and screw.

27752 101-109 Design With smooth clamping surface.

27752 201-209 Design With serrated clamping surface.

Fixed jaws (individual)

101

102

103

104

105

106

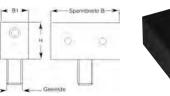
107

108

27752 301-309 Design With claws.

Note:

T-sliding block with M 8 thread required for art. no. 27752 101–103, 27752 201–203 and 27752 301–303.



-

HIN

27.49

27752 201-209

				Smooth	Serrated	With claws	
Clamping width B	B1	Н	Screw	27752	27752	27752	
mm	mm	mm	DIN 912				
22	22	15	M 8	101	2	201	301
32	22	15	M 8	102	: 2	202	302
42	22	15	M 8	103	1 2	203	303
30	42	22	M 12	104	2	204	304
40	42	22	M 12	105	i 2	205	305
50	42	22	M 12	106	i 2	206	306
42	42	29	M 12	107	' 2	207	307
57	42	29	M 12	108	1 2	208	308
72	42	29	M 12	109) 2	209	309

Wedge clamping device (individual) Note:

T-sliding block with M 8 thread required for

art. no. 27753 101-103, 27753 201-203,

27753 301-303 and 27753 401-403.

27753 TDRA

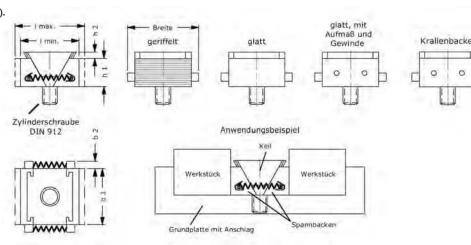
Design Includes sliding block and screw.

27753 101-109 Design With smooth clamping surface (standard clamp).

27753 201-209 Design With serrated clamping surface (blank clamp).

27753 301-309 With allowance.

27753 401-409 With claws.



Width Clamping L min. L max. h1 b1 b2 h2 Screw 27753 27753 27753 27753 27753 27753 27753 27753 27753 27753 27753 27753 27753 27753 27753 27753 27753 27753 27753 27753 27753 27753 27753 27753 27753 27753 27753 27753 27753 27753 27753 27753 27753 27753 27753 27753 27753 27753 27753 27753 27753 27753	 401 402
30 15 27 31 15 22 4 4 M 8 101 201 301	
	402
40 15 27 31 15 32 4 4 M 8 102 202 302	402
50 15 27 31 15 42 4 4 M 8 103 203 303	403
40 30 39 45 22 30 5 7 M 12 104 204 304	404
50 30 39 45 22 40 5 7 M 12 105 205 305	405
60 30 39 45 22 50 5 7 M 12 106 206 306	406
54 50 52 62 29 42 6 11 M 12 107 207 307	407
69 50 52 62 29 57 6 11 M 12 108 208 308	408
84 50 52 62 29 72 6 11 M 12 109 209 309	409

27754

Accessories

TOR

Applications Accessories for ATORN multiple clamping rails, see art. no. 27750-27751.

Note:

Clamping technology

* The length of the adapter is 72 mm. The adapter is used to connect two clamping rails without spacing. Any length is deliverable on request to provide appropriate spacing between the clamping . rails.

Designation	Pieces	27754	
Adapter set*	1		101
Stop, adjustable	1		102
Stop, fixed	1		103
Sliding block, short, M 8	5		104
Sliding block, short, M 12	5		105
Sliding block, long, M 12	5		107
Screw bushing	5		108
Positioning sleeve, 20 x 14	1		109
Positioning sleeve, 20 x 18	1		110
Adjustable clamps	4		111

27754 101

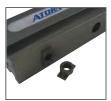
27754 102

27754 103



27754 104-107

27754 109-110











27753 101-109

H M





27724

High-pressure machine vices

Design

- Basic body and upper slide made of spheroidal graphite iron GGG60
- Guideways hardened and ground
- Ground camber to compensate for tilting - Maintenance-free and fully enclosed high-pressure
- spindle with integrated mechanical power amplifier - Lower section with longitudinal and transverse
- grooves for exact alignment
- Quick adjustment via stud bolts

Scope of delivery:

- 4 adjustable clamps
- 1 pair of hardened clamping jaws
- 1 hand crank

Applications

For vibration-free, absolutely safe clamping with extremely high cutting and feed forces.

Technical data:		
	07704 404	07704 400
Art. no.	27724 101	27724 102
Jaw width mm:	125	160
Clamping range S, step 1/2 mm:	0-105/100-205	0-155/150-305
Clamping range, extended mm*:	255	365
Clamping force, max. kN:	40	50
L1 mm:	425	570
L2 mm:	80	90
L3 mm:	60	95
L4 min./max. mm:	489/694	575/880
L5 min./max. mm:	613/818	712/1007
h mm:	107	130
h1 (+0.002) mm:	65	80
d1:	M 12	M 16

C Clamping range extended by fixing the bolt in the transverse groove of the spindle nut

	Vices	
Jaw	27724	
width mm		
125		101
160		102

27725 201-202 Turntables

Design

- Turntable with 360 easily readable
- graduation lines (4 x 90°)
- Clamping slots for easy fastening on the

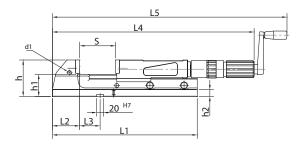
machine table

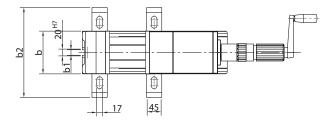
							Turntables	
For jaw width mm	L mm	L1 F mm	leight mm	b mm	b1 mm	Weight kg	27725	
125	264	16	28	270	240	10.8		201
160	325	16	32	325	295	18.4		202

27725 301-305 **Clamping jaws**

Clamping jaws	With longitudinal groove		With step	
For jaw width mm	27725		27725	
125		301		304
160		302		305

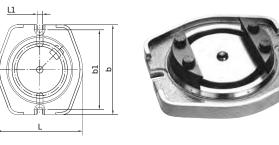
H keser Note: Narrow production tolerances allow subsequent assembly of several vices next to one another.







27724



27725 301-302

27725 304-305







High-pressure machine vices

High-pressure machine vices

Scope of delivery:

- 1 set of jaws (1 side smooth, 1 side serrated)
- 4 adjustable clamps
- Hand crank
- Design - Mechanical/hydraulic

27708 101-102

27708

TORN

- Steel body, guideways hardened and ground
- Alignment on the machine table: longitudinal and transverse via groove and sliding blocks
- Rough adjustment of the clamping range via
- rigging pin - Clamping repeat accuracy with a constant
- clamping force: 0.01 mm
- Clamping force adjustment for fast pre-selection of the clamping force, precise repeatability
- Pre-clamping facility for elastic parts
- Package clamping
- Compensation jaws

Technical data:

Clamping width S mm:

Jaw thickness L10 mm:

Jaw width

mm 90

125

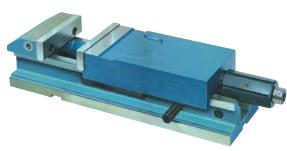
Jaw height h mm:

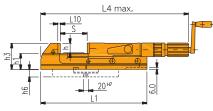
h3 x h1 x b8 mm:

Clamping force kN:

L1 x l4 mm:

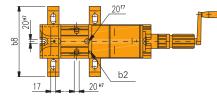
Item no. Jaw width b2 mm:





27708 101-102

27708 201-202



p.

27708 201-202 Turntables

			Turntables	
Slot width b1	d x h6	b5 x L8 x h6	27708	
mm	mm	mm		
14	242 x 30	230 x 220 x 25		201
16	280 x 30	270 x 264 x 28		202
	mm 14	mm mm 14 242 x 30	mm mm mm 14 242 x 30 230 x 220 x 25	Slot width b1 d x h6 b5 x L8 x h6 27708 mm mm mm mm 14 242 x 30 230 x 220 x 25

Single, double and multiple vices

MULTI 2000 - versatile, economical, compact -

- A sophisticated enhancement to the standard double vice and single vice ranges.
- Multifunctional use possible
- · Mechanical or fully hydraulic operation
- · Change to other workpiece sizes in seconds
- · High clamping and repeat accuracy
- · Same clamping pressure at both clamping points
- · Basic body made of case-hardening steel, guides inductively hardened
- Two independent spindles (only one operating side)
- · Can be equipped with workpieces of different sizes
- · Side slots on the underside of the vice divert chips and cooling water
- Small dimensions

Info

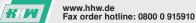
- · Ideal for use on vertical machining centres
- Please contact us!

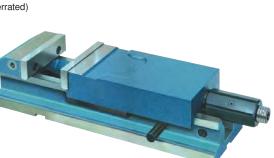


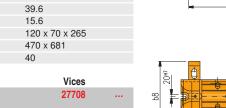




27.52







101

102

99 x 53 x 230

370 x 553

25



Flexibility with Röhm clamping jaws

Can be used on NC compact clamps and machine vices



QUATRO clamping tower With four NC compact clamps RKD mounted in a star shape



5-sided machining: Multiple clamping (blank) in RKD 125 with pull-down claw inserts



Clamping jaws with 4 pendulum supports, serrated, compensation +/-9°, pendular movable jaw, without pull-down for clamping forged parts



27710 - 27715 High-pressure machine vices, RB

27710 101

113

170

31.6

583

97

390

65.5

160

13

12

30

24

RÖHM

27710 High-pressure machine vices, RB

Design - Mechanical/hydraulic

- With mechanical pre-clamping via hand crank
- Clamping force can be preset via stop
- Alignment on the machine table via
- longitudinal grooves
- Rough adjustment of the clamping range via rigging pin
- Clamping repeat accuracy with a constant clamping force: 0.01 mm

Scope of delivery:

Technical data:

1 set of standard jaws

Clamping width B mm:

Height G +/- 0.02 mm:

Jaw thickness y mm:

Clamping force, max. kN:

Jaw height C mm:

Length D mm:

Height E mm:

Length F mm:

Width K mm:

Weight kg:

Slot width Q mm:

- (1 side smooth, 1 side grooved)
- Hand crank

Art. no. Jaw width mm:

Applications

27710 102

135

220

39.6

681

112

468

72.5

200

13

16

40

39

For individual and series production on drills and milling machines. Quality Steel body, forged (jaws made from nodular cast

27710 103

160

310

49.6

817

133

574

83.5

240

17

16

50

60

fixing the vice on the turntable

- Graduation, fastening screws and sliding blocks for

27710 104

200

350

66.6

1022

171

685

280

21

20

100

112

104.5

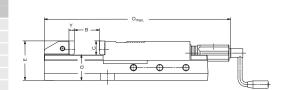
Steel body, forged (jaws made from nodular ca iron, jaw width 200 mm). Guideways hardened and ground.

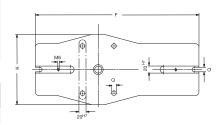
Note:

For workpiece stop see art. no. 27684. Vices with jaw width 250 and 315 mm and additional angle drive deliverable on request.









	Vices	
Jaw width	27710	
mm		
113		101
135		102
160		103
200		104

27711

Turntables

Design

- With ground support edge to support the vice

	Turntables
For jaw width	27711
mm	
113	101
135	102
160	103
200	104

Applications

Screw-on.

27711 101-103

27711 104





27715 Prism and normal jaw Design

- With workpiece support
- Soft and bronzed

- Pairs

Clamping technolog

For jaw width	27715	
mm		
113		101
135		102
160		103



H M

27716

Machine vice, MH-S 125

ATORN®

Design

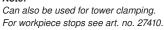
- Basic body and jaws made of case-hardening steel, nitrided on all sides
- Repeat accuracy ≤ 0.01 mm
- Clamping force up to 40 kN
 Mechanical/hydraulic spindle made of
- high-strength special steel
- Transverse grooves for fast positioning on tool table
- Basic body clampable and ground on 3 sides (for bed length 470 mm, otherwise optional)
- Ground internal guideway 58 HRC
- Positioning holes Ø 12H7 on underside
 in 40 and 50 mm aitab for axid plate alar
- in 40 and 50 mm pitch for grid plate clamping - Use of pull-down quick-change jaws and interchan-
- geable stepped jaw grips - Spindle nut with double trapezoidal thread for quick adjustment
- Thread for workpiece stop

Scope of delivery:

- Delivery includes reversible screw-in jaws
- (serrated and smooth side)
- Hand crank
- Crank extension
- For bed length greater than 662 mm,
- crank extension deliverable on request

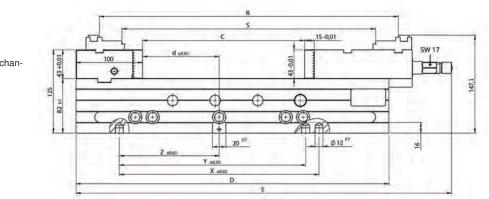
Applications For precise clamping of workpieces.

Note:





Bed length up to 1200 mm and hydraulically operated versions deliverable on request.



Multiple clamping optionally possible with interchangeable slide (art. no. 27716 232)

Fast retooling even with pull-down quick-change jaws

TORN'

27716 101-108

Groove and thread for interchangeable jaw grips

Flexible

clamping

Optimum positioning

Fast presetting through 64 mm grid hole

Clamping force: hydraulic up to 40 kN/ mechanical up to 10 kN

Mounting hole for optional angle drive

Ground internal guideway 58 HRC

Jaw width	Bed length D	Total length E	Clamping width C	Clamping width R	Clamping width S	Bed height	Groove width	Jaw height	27716
mm	mm	mm	mm	mm	mm	mm H7	mm H7	+/- mm	
125	470	564	0-239	131-445	63-377	82	20	43	101
125	534	628	0-303	131-509	63-441	82	20	43	102
125	598	692	0-367	131-573	63-505	82	20	43	103
125	662	756	0-431	131-637	63-569	82	20	43	104
125	726	820	0-495	131-701	63-633	82	20	43	105
125	790	884	0-559	131-765	63-697	82	20	43	106
125	854	948	0-623	131-829	63-761	82	20	43	107
125	918	1012	0-687	131-893	63-825	82	20	43	108

See next page for accessories

HW

27.55

Accessories for machine vices | Hydro machine vices | Workpiece stops

27716 Acces	sories for machine vice I	MH-S 125	
Continued Scope of delivery: All jaws 1 piece each.	27716 201	27716 202	27716 203
NEW			
27716 204	27716 205	27716 206	27716 207
27716 210	27716 211	27716 220	27716 221
27716 222	27716 223	27716 224	27716 225
27716 230	27716 231	27716 232	27716 233
Туре	A B mm mm	n mm mm mm mm	G H 27716 mm mm
Soft jaw Stepped jaw	125 43.4 125 43		201 8.5 - 202

Туре	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	27716	
Soft jaw	125	43.4	15.4	80	16	-	-	-		201
Stepped jaw	125	43	11.5	80	16	35	8.5	-		202
Grip stepped jaw	125	43	11.5	80	16	40	8.5	-		203
Prism jaw, vertical	125	43	20	80	16	8-38	-	-		204
Prism jaw, horizontal and vertical	125	43	20	80	16	8-38	-	-		205
Reversible screw-in jaw	125	43	15	80	16	-	-	-		206
Pull-down jaw with spring plate	125	43	11.5	80	16	21.5	-	-		207
Interchangeable stepped jaw	125	19	58	9	14	4	-	-		210
Interchangeable stepped jaw with grip insert	125	26.1	58	9	4	4	3	19		211
Plain jaw with two permanent magnets	125	43	6	80	16	-	-	-		220
Interchangeable jaw, smooth	125	43	21.5	-	-	-	-	-		221
Interchangeable jaw, serrated	125	43	21.5	-	-	-	-	-		222
Line interchangeable jaw	125	43	21.5	37	2	-	-	-		223
Serrated line interchangeable jaw	125	43	21.5	37	2	-	-	-		224
Stepped interchangeable jaw	125	43	26.9	33	4	-	-	-		225
Angle drive	-	-	-	-	-	-	-	-		230
Rhombic T-sliding block	-	-	-	-	-	-	-	-		231
Interchangeable slide	-	-	-	-	-	-	-	-		232
Interchangeable stepped jaw for interchangeable slide	124.9	-	-	105	-	-	-	-		233

HIN

www.hhw.de Fax order hotline: 0800 0 915910

eng/P

27695

Design

Mechanical/hydraulic. The redesigned power transmission requires a minimum crank force. An angle drive (see art. no. 27703) facilitates operation, e.g. for longitudinal clamping on the machine table. An optional clamping force pre-selector (see art. no. 27705) enables 6-stage limitation of the maximum clamping force to partial values.

Function:

When the hand crank is turned, the mechanical/hydraulic clamping jaw is quickly brought to the workpiece via a steep threaded hollow spindle. After contact with the workpiece: Automatic disengagement of the inner pressure spindle. When the hand crank is turned further: Infinitely variable increase in the clamping force up to the maximum. To release the clamping force, the hand crank is turned in the opposite direction.

Hydro machine vices, EuroLine

Scope of delivery:

Standard reversible jaws, smooth/serrated, hand crank and operating instructions.

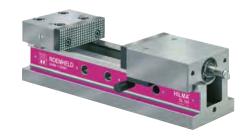
Applications

For tool and mould making, jig manufacturing and production.

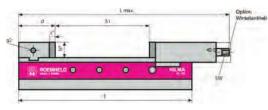
Note:

Cannot be used with turntable. For adjustable clamp sets, see art. no. 27805.





27695 302



Туре	Jaw width mm	Clamping width S1 mm	Clamping force approx. kN	Jaw height b mm	Total length L max. mm	Lower section f mm	Crank force N	Crank radius mm	Weight approx. kg	27695	
EL 100	100	205	25	34	464	380	50	80	18.5		301
EL 125	125	225	40	45	526	430	75	100	31.5		302
EL 160	160	309	50	54	684	550	95	125	58.5		303
EL 160 L	. 160	509	50	54	884	750	95	125	75.0		304

27800

Design

Mechanical/hydraulic. Manual clamping with hydraulic power transmission. Precise alignment on the machine table using longitudinal and transverse grooves. Extension of the clamping range with interchangeable stepped jaws or customer-specific special jaws via grooves and threaded holes on slides and fixed jaws. Threaded holes for holding extra-high clamping jaws as standard.

Function:

When the hand crank is turned, the mechanical/hydraulic clamping jaw is quickly brought to the workpiece via a steep threaded hollow spindle. After contact with the workpiece: Automatic disengagement of the inner pressure spindle. When the hand crank is turned further: Infinitely variable increase in the clamping force up to the maximum. To release the clamping force, the hand crank is turned in the opposite direction.

Hydro machine vices, type NC

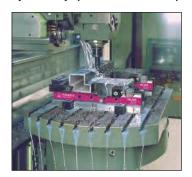
Applications

For tool and mould making, jig manufacturing and production.

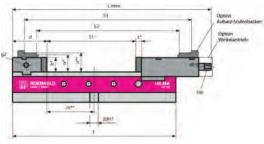
Note:

Workpiece stops for type EL, NC

- 1 = Interchangeable stepped jaws option
- 2 = Angle drive option
- 3 = Clamping force display in kN option For adjustable clamp sets, see art. no. 27805. Hydraulically operated version on request.







Туре	Jaw width mm	Clamping width S1/S2/S3 max. mm	Clamping force kN	Jaw height b mm	Total length L max. mm	Lower section f mm	Crank force N	Crank radius mm	Weight approx. kg	27800	
NC 100	100	205/330/386	25	34	464	380	50	80	18.5		101
NC 125	125	225/363/431	40	45	526	430	75	100	31.5		102
NC 160	160	309/503/573	50	54	684	550	95	125	58.5		103

27702

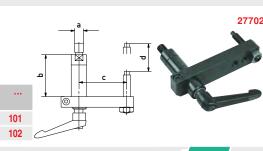
27702

Applications

eng/P

Orodinate workpiece stops, for self-assembly on all HILMA machine vices; can be swivelled away for 3-sided machining.

Туре	For jaw width	а	b	С	d
	mm		mm	mm	mm
9.3291.0201	100/125	M 12	61	95	46
9.3291.0401	160	M 20	81	124	66



1 27.57

Angle drives | Clamping force pre-selector | Clamping jaws | Prism jaws | Stepped jaws | Pendulum jaws | Adjustable clamps

27703 Angle drives for type EL, NC-M Applications Design Important accessory for longitudinal clamping on the Fast assembly with just 2 screws (overall length machine table or when normal crank operation is L max. of the machine vice does not change). difficult. Supplied without hand crank. 27703 b For jaw width 27703 Type b mm mm 0 9.3294.0605 125 43 102 9.3294.0705 160 46 103 27705 Clamping force pre-selector, 6-stage Scope of delivery: 27705 Design 6-stage clamping force pre-selector, including The clamping force pre-selector limits the travel of fastening screw and two shims for tolerance the pressure spindle and thus enables gradual compensation. adjustment of the clamping force. The maximum Applications clamping force is reached in stage 6. The 6-stage clamping force pre-selector is used to clamp thin-walled parts, sensitive materials and Safety instructions:

The set clamping force must be high enough to ensure that the machining forces cannot move the workpiece.

workpieces for fine machining with an adapted clamping force. For mechanical/hydraulic machine vices, type EL, NC-M.

Туре	For jaw width mm	Thread of pressure spindle	Spacing X mm	27705	
9.3762.0100	100	M 6 x 12	0.7-1.0		101
9.3762.0125	125	M 8 x 14	1.0-1.5		102
9.3762.0160	160	M 8 x 14	1.0-1.5		103

Standard clamping jaws



Design

Can be used on both sides 1. Serrated side.

27729

2. Smooth side.

Pieces 27729 Туре а b С mm mm mm 5.2058.1003 100 34 13 101 5.2058.1004 125 45 15 102 5.2058.1005 160 54 18 103

Applications

For hydro machine vices, type EL, NC.

0 \bigcirc

27734

Vee block jaw

45

54

27

32

Precision stepped jaws

19

21

ROEMHELD ** Applications

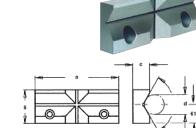
Туре

For clamping round workpieces horizontally and vertically. For hydro machine vices, type EL, NC.

Pieces b b1 С d 27734 mm mm mm mm 34 19 8-35 17

10-50

12-60



101

102

103

27738

5.3030.0002

5.3030.0003

5.3030.0004

×× ♦♦

Applications

For use in pairs. For clamping rectangular workpieces without parallel pieces. For producing bores close to the edge. For hydro machine vices, type EL.

а

mm

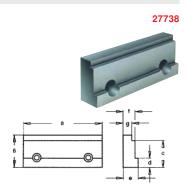
100

125

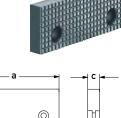
160

NC

								Pieces	
Туре	а	b	С	d	е	f	g	27738	
	mm	mm	mm	mm	mm	mm	mm		
5.2082.0001	100	34	29	10	19	15	11		201
5.2082.0002	125	45	39	13	25	20	16		202
5.2082.0003	160	54	45	15	25	20	16		203









27734





Pendulum jaws

b

mm

34

45

54

b

mm

34

45

54

27739

* <u>*</u> Applications

Туре

8.3711.0208

8.3711.0308

8.3711.0408

normal jaw widths.

5.2058.1025

Applications

Туре

For clamping workpieces with non-parallel clamping

а

mm

100

125

160

а

mm

100

125

160

surfaces or 2 workpieces with different tolerances. For hydro machine vices, type EL, NC.

27739

Pieces

27741

101

102

103

201

202

203

Pieces

				ł	
6				d	
	0		0	1	
	\leq	- 8 -	2	4	

27741

Clamping jaws, extra-wide

С

mm

13

15

18

С mm

35

50

55

For use in pairs.

d

mm

125

160

200

27803

27804

Note:

For fixed jaws.

d

mm

16

22

26

For hydro machine vices, type EL, NC.

0	O	н Б Т
<u> </u>	•	c c
•	d — 🕞 🕨	ſ



5.2058.1026 5.2058.1027

Interchangeable stepped jaws

**

27803 - 27804

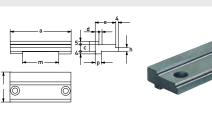
Design

For achieving very large clamping widths. Includes fastening screws. Applications

For safe clamping of workpieces that exceed the

For machine vices art. no. 27800.

For slides.



Туре	а	С	d	е	h	m	р	27803 27804
	mm	mm	mm	mm	mm	mm	mm	
9.3284.0201	100	11.5	6	34	6.5	60	10h6	101
9.3284.0301	125	14.0	6	40	9.0	58	12h6	102
9.3284.0401	160	17.0	8	43	12.0	64	18h6	103
9.3284.1201	100	11.5	6	34	6.5	60	10h6	201
9.3284.1301	125	14.0	6	40	9.0	58	12h6	202
9.3284.1401	160	17.0	8	43	12.0	64	18h6	203

Recess dimension m for art. no. 27804 only.

	27805
	ROEMHELD HILMA • STARK
Des	ian

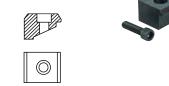
4 pieces, with screws.

Adjustable clamp sets for type EL/NC/DS

Applications

For machine vices art. no. 27695, 27800.

Туре	For type	Clamping edge mm	Groove mm	Cheese head	27805	
9.3777.2011	EL/NC 100, DS 100	24	14	M 12		101
9.3777.3011	EL/NC 125/160, DS 12	25 27	14	M 12		102
9.3777.3021	EL/NC 125/160, DS 12	25 27	18	M 16		103



Info

Double clamping system, DS

The ideal component for efficient multiple clamping. One-sided spindle action and 3rd manual function enables successive loading and unloading of the clamping points with workpieces of the same size or different sizes. The spindle chamber is completely enclosed, providing optimum protection against chips and coolant. A zero-backlash linear guide ensures maximum precision. Pre-selectable clamping force via torque wrench.

Please enquire as necessary.



HIN 27.59

27741

27803

27739

Clamping jaws | Parallel rests

27895

Design

V (0) R / N

- Fast and precise clamping

high clamping forces

thus low maintenance

on both front ends

- Contents: 1 piece

of a wide variety of workpieces - Changeover in seconds for

different machining operations

- Loose surfaces become superfluous,

- Stable and robust construction, also suitable for

as does time-consuming cleaning

- Compressed air supply via valves

- Enclosed on all sides when installed,

- Recommended air pressure: 5.5 bar

Clamping jaws with positioning pins, pneumatic operation

ground and treated with a special

Advantage: Actuate once with the blow-out gun and all pins are driven out

oxidation process.

Applications

Clamping jaw system with positioning pins eliminates the need for complex and time-consuming clamping devices; practical, fast and uncomplicated position fixing of workpieces in seconds.

Quality High-quality tool steel, hardened,

NEW

27895 202

27895 201



27895 203



ATORN.





Jaw width mm	For vice brand	For vice type	Pitches of mounting hole (w x h)	27895	
125	Hilma:	NC 125, NC 125 H, EL 125, KNC 125	2 x M 8		201
125	ATORN:	MM-G 125			202
	Gressel:	Gripos GPS 125, Gripos GPS 125-VS, Gripos2,			
		Grepos-5X, Grepos-5X-S, Grefors, S2, Duogrip, C2, Ecopos	2 x M 8/1 x M 10		
	Kesel:	CNC 125, Bull pneumatic 125, Bull 125 mechanical, ARNO 125			
	Röhm:	RKE 125, RKE-L 125, RKE-U 125, RKG-L 125, RKE-LV 125			
160	Hilma:	NC 160, NC 160 H, EL 160, KNC 160	2 x M10		203
160	ATORN:	MM-G 160			204
	Gressel:	Gripos GPS 160, Gripos GPS 160-VS, Gripos2,			
		Grepos-5X, Grefors, S2, Duogrip, C2, Ecopos	3 x M 10		
	Kesel:	CNC 160, Bull pneumatic 160, Bull 160 mechanical, ARNO 160			
	Röhm:	RKE 160, RKE-L 160, RKE-U 160, RKG-L 160, RKE-LV 160			



H M

27890

Magnetic parallel rest sets

TORN[®]

Design - Made from hardened, bronzed and distortion-free tool steel

- High retention force of the magnets

Advantage:

Strip width 2.5 mm, enabling machining close to the edge.

Height tolerance Width Lenath Contents. Contents. 27890 +/- mm mm mm pairs height mm 0.01 100 2.5 5 20/27/29/31/32 101 0.01 125 2.5 5 15/30/35/37/39 102 2.5 22/30/37/42/47 0.01 160 5 103

Precision parallel rest sets



36600 ₳₥₣ᠿ

Design

- Pairs

- Plane parallel, finely ground
- Size specifications on the face
- Sets cover a wide range with 1 mm increment - Case-hardened.
- Nominal dimension tolerance +/- 0.01 mm
- Remaining dimensions in accordance with DIN ISO 2768 m
- In wooden holder

Applications

For clamping and positioning a wide range of workpieces, e.g. when grinding, milling, eroding, measuring and marking off.

In connection with corresponding clamping tools such as the precision grinding and eroding vice, ideal for exact-angle or exact-parallel processing of a wide range of workpieces.

Note:

Designs of special dimensions, in high precision or as individual pairs available on request. 36600 101

Design

Length 100 mm.

Box contents one pair each: 2 x 5 / 2 x 10 / 2 x 15 / 2 x 20 / 3 x 6 / 3 x 11 / 3 x 16 / 3 x 21 / 4 x 7 / 4 x 12 / 4 x 17 / 4 x 22 / 5 x 8 / 5 x 13 / 5 x 18 / 5 x 23 / 6 x 9 / 6 x 14 / 6 x 19 / 6 x 24 mm.

36600 103 Design

Length 125 mm.

Box contents one pair each: 8 x 11 / 8 x 16 / 8 x 21 / 8 x 26 / 8 x 31 / 8 x 36 / 10 x 13 / 10 x 18 / 10 x 23 / 10 x 28 / 10 x 33 / 10 x 38 / 12 x 15 / 12 x 20 / 12 x 25 / 12 x 30 / 12 x 35 / 12 x 40 / 14 x 17 / 14 x 22 / 14 x 27 / 14 x 32 / 14 x 37 / 14 x 42 mm.

36600 102 Design
Length 150 mm.
Box contents one pair each:
8 x 11 / 8 x 16 / 8 x 21 / 8 x 26 / 8 x 31 / 8 x 36 /
10 x 13 / 10 x 18 / 10 x 23 / 10 x 28 / 10 x 33 /
10 x 38 / 12 x 15 / 12 x 20 / 12 x 25 / 12 x 30 /
12 x 35 / 12 x 40 / 14 x 17 / 14 x 22 / 14 x 27 /
14 x 32 / 14 x 37 / 14 x 42 mm.

36600



Pair tolerance in height mm	Length mm	Contents pairs	36600	
IT 5	100	20		101
IT 5	125	24		103
IT 5	150	24		102

36602

Parallel rest sets

Parallel rest sets

Design

- Case-hardened and ground
- Contact surfaces finely ground
- Nominal dimension tolerance up to height 30 mm = +/- 0.2 mm, from height 35 mm = +/- 0.3 mm.
- Nominal dimensions in accordance with ISO 2768 m
- In wooden case with removable hinged lid

С	onte	nts:
1	pair	each

Applications

machining operations.

be built up in height.

open in the tool cabinet.

h (= 14 pairs). Height of the measuring surfaces mm: 14/16/18/20/22/ 24/26/28/30/32/35/40/45/50.

As spacers for workpieces in a wide variety of

The constant width means that the parallel rests can

The removable hinged lid allows the set to be stored



Pair tolerance, height mm	Length mm	Width mm	Contents, pairs	36602	
0.01	150	10	14		101

36615 AMEG

Design

- Case-hardened and ground
- Contact surfaces finely ground
- Nominal dimension tolerance, height +/- 0.004 mm
- Nominal length and width in accordance with
- ISO 2768 m - In wooden case with removable hinged lid
- Contents:
- 1 pair each (= 14 pairs).
- Height of the measuring surfaces mm:

14/16/18/20/22/24/26/28/30/32/35/40/45/50.

Pair tolerance, height mm	Length mm	Width mm	Contents, pairs	36615	
0.004	150	10	14		101



1

HIM 27.61

36615

Clamping technology