max. 40 Nm

BLUE

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# ATORN RS-Z 54 CENTRE CLAMPING DEVICE

### Basic body with spindle and without jaws

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





### **ATORN** RS-Z 75 CENTRE CLAMPING DEVICE

Basic body with spindle and without jaws



### ATORN RS-Z 125 CENTRIC CLAMPING DEVICE

### Basic body with spindle and without jaws





## ATORN RS-P 310 3-WAY CLAMPING PYRAMID

### includes RS-Z centre clamping device without jaws

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

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

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

# ATORN RS-P 465 3-WAY CLAMPING PYRAMID

includes RS-Z centre clamping device without jaws



Typ Ma Tot Ма Mir Cla Wid

### **\ BLUE HITS**



Type RS-P 310 RS-P 310 MUU 110° RS-P 310 MUU 110°   Jaw width (mm) 75 75 75   Basic body dia. (mm) 305 305 305   Body height (mm) 68 68 68   Max. dia. (mm) 310 310 310   Body length (mm) 125 125 125   Total height (mm) 146 146 146   Max. clamping width (mm) 8-100 8-100 8-100   Clamping force (kN) 30 30 30 30   Width across flats (mm) 12 12 12   CF28793 Ref. no. 300 310 320					
Jaw width (mm) 75 75 75   Basic body dia. (mm) 305 305 305   Body height (mm) 68 68 68   Max. dia. (mm) 310 310 310   Body length (mm) 125 125 125   Total height (mm) 146 146 146   Max. clamping width (mm) 8-100 8-100 8-100   Clamping force (kN) 30 30 30   Width across flats (mm) 12 12 12   CF28793 Ref. no. 300 310 320	Туре		RS-P 310	RS-P 310 DMU 110°	RS-P 310 Matsuura
Basic body dia. (mm) 305 305 305   Body height (mm) 68 68 68   Max. dia. (mm) 310 310 310   Body length (mm) 125 125 125   Total height (mm) 146 146 146   Max. clamping width (mm) 8-100 8-100 8-100   Clamping force (kN) 30 30 30   Width across flats (mm) 12 12 12   CF28793 Ref. no. 300 310 320	Jaw width (mm)	1	75	75	75
Body height (mm) 68 68 68   Max. dia. (mm) 310 310 310   Body length (mm) 125 125 125   Total height (mm) 146 146 146   Max. length (mm) 128 128 128   Min./max. clamping width (mm) 8-100 8-100 8-100   Clamping force (kN) 30 30 30   Width across flats (mm) 12 12 12   CF28793 Ref. no. 300 310 320	Basic body dia.	(mm)	305	305	305
Max. dia. (mm) 310 310 310   Body length (mm) 125 125 125   Total height (mm) 146 146 146   Max. length (mm) 128 128 128   Min./max. clamping width (mm) 8-100 8-100 8-100   Clamping force (kN) 30 30 30   Width across flats (mm) 12 12 12   CF28793 Ref. no. 300 310 320	Body height (m	m)	68	68	68
Body length (mm) 125 125 125   Total height (mm) 146 146 146   Max. length (mm) 128 128 128   Min./max. clamping width (mm) 8-100 8-100 8-100   Clamping force (kN) 30 30 30   Width across flats (mm) 12 12 12   CF28793 Ref. no. 300 310 320	Max. dia. (mm)		310	310	310
Total height (mm) 146 146 146   Max. length (mm) 128 128 128   Min./max. clamping width (mm) 8-100 8-100 8-100   Clamping force (kN) 30 30 30   Width across flats (mm) 12 12 12   CF28793 Ref. no. 300 310 320	Body length (m	m)	125	125	125
Max. length (mm) 128 128 128   Min./max. clamping width (mm) 8-100 8-100 8-100   Clamping force (kN) 30 30 30   Width across flats (mm) 12 12 12   CF28793 Ref. no. 300 310 320	Total height (m	m)	146	146	146
Min./max. clamping width (mm) 8-100 8-100 8-100   Clamping force (kN) 30 30 30   Width across flats (mm) 12 12 12   CF28793 Ref. no. 300 310 320	Max. length (m	m)	128	128	128
Clamping force (kN) 30 30 30   Width across flats (mm) 12 12 12   CF28793 Ref. no. 300 310 320	Min./max. clamping width (mm)		8-100	8-100	8-100
Width across flats (mm) 12 12 12   CF28793 Ref. no. 300 310 320	Clamping force (kN)		30	30	30
CF28793 Ref. no. 300 310 320	Width across flats (mm)		12	12	12
	CF28793	Ref. no.	300	310	320

Туре		RS-P 465
Jaw width (mm)		125
Basic body dia.	(mm)	345
Body height (mr	n)	92
Max. dia. (mm)		465
Body length (mr	n)	180
Total height (mr	n)	184
Max. length (mr	n)	183
Min./max. clam	ping width (mm)	8-150
Clamping force	(kN)	30
Width across fla	its (mm)	12
CF28793	Ref. no.	330



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## ATORN RS-P 6-WAY CLAMPING PYRAMID

includes 3x RS-Z centre clamping devices without jaws

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

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

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

4

6. Patented system: The 6-way clamping pyramid has a patented design and comes with three integrated RS-Z clamps and three interfaces for three

additional RS-Z clamps. The integrated zero-point system ensures precise positioning and repeat accuracy.

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

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



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

# ATORN RS-T 3-WAY CLAMPING TOWER

### includes 3x RS75-125 centric clamping devices

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

#### The main advantages of the 3-way clamping tower

1. High productivity: Due to a significant increase in machine utilisation, more parts can be produced in

2. Repeat accuracy: The clamping tower offers a high

level of repeat accuracy, which is essential for precise production processes. 3. Efficient and compact: The design is highly efficient and ensures that the available space is used optimally.

4. Maximum part size: The clamping tower can accommodate parts with a size of up to 100 x 100 mm and variable length with a collision circle of 350 mm. 5. Integration into automated systems: It is ideally suited for use in palletising systems and robot changing systems, which makes the automation of production processes considerably easier.

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

<u>ATORN</u>	RS-T	20-WAY	CLAM	PING	TOWER
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### includes 20 RS75-125 centre clamping devices

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

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

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

CF 28793 Ref. no.
700



CF 28794... Ref. no

400



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Tool

adapter

HSK 63

HSK 63



### SUITABLE ACCESSORIES

# ATORN RS-NP ZERO-POINT CLAMPING SYSTEM

#### Accessories for RS-Z clamps and RS-P pyramids

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









Туре	Body width (mm)	Body height (mm)	Body length (mm)	Weight (kg)	CF 28794 Ref. no.
RS 52-NP	102	27	102	1,6	100
RS 52-NP double	102	27	102	2,6	105
RS 96-NP	165	27	165	4,6	110
RS 96-NP MAM	165	27	165	3,4	115





# **ATORN** HYDRAULIC EXPANSION CHUCKS

### in accordance with ISO 12164 (DIN 69893)





The hydraulic expansion chuck is an excellent tool for highly accurate centre clamping of milling, drilling and reaming tools. It is particularly effective at milling and heavy-duty machining, especially roughing.

A major advantage of this chuck is its damping properties, which not only increase the tool life, but also extend the service life of the machine spindle. The vibration-damping effect helps to reduce micro-cracks and improve the surface of the workpieces.

d (mn	A n) (mm)	d2 (mm)	d3 (mm)	D (mm)	11 (mm)	12 (mm)	G	max. V (mm)	CF 23738 Ref. no.	
20	80	38	49	52.5	36	51	M8 x 1	10	020	
12	80	32	42	52.5	34	46	M8 x 1	10	012	

# ATORN HYDRAULIC EXPANSION CHUCKS





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

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## ATORN AVM 5-AXIS CLAMP

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#### Mechanical/mechanical clamping system

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

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



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

### SUITABLE ACCESSORIES

### **ATORN** AVM STEPPED JAWS

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





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

8

# **ATORN** 3D EDGE FINDER

#### with dial gauge

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

- Readability: Stable and durable, easy-to-read dial gauge.
- Versatility: Can be used horizontally and vertically.
- Z axis: Precise measurements without conversions.
- Concentricity adjustment: Adjustment using four screws for exact
- Predetermined breaking point: Protects against overloading.
- Degree of protection IP 67: Dustproof and waterproof.
- Overall, the ATORN 3D edge finder offers a combination of precision, flexibility and robustness, which makes it a valuable tool for production technology.

		20		
d dia.	(mm)	4		
idth (	mm)	65		
dia. (	mm)	57		
n (mm	ı)	0.01		
rt len	gth (mm)	33		
ity (+	/-) (mm)	0.01		
of pro	tection	IP 67		
1	Ref. no.	010		

Clamping shank diameter 20 mm



### **3D DIGITAL 3D EDGE FINDER**

with shank

Q,



CF 23924... Ref. no. 030









# HORN DREHPLUS V2 3D EDGE FINDER

with shank



#### A market sensation!

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



# FLOTT DRILL VICE

### [felix] 2.0



The innovative drill vice from Felix Röwekämper offers a user-friendly solution for the safe and precise drilling of workpieces.

The drill vice enables the workpiece to be clamped easily, quickly and securely. The vice can be mounted on the workbench, precisely adjusted and secured in just two operations.

This drill vice is an excellent choice for tradespeople and professionals who value efficiency, safety and precision.

Туре	(felix) 80 2.0	(felix) 100 2.0	(felix) 120 2.0	(felix) 150 2.0
Jaw width (mm)	80	100	120	150
Clamping width (mm)	120	135	168	200
Jaw height (mm)	28	32	40	40
Body length (mm)	280	340	400	451
Body height (mm)	78	85	102	103
Body width (mm)	95	122	140	170
Weight (kg)	11.6	12.8	20.3	32.4
CF28680 Ref. 1	no. 010	020	030	040



# **ATORN** MM-G HIGH-PRESSURE MACHINE VICES

#### Mechanical/mechanical clamping system with power transmission



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

precision and reliability during operation.

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

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

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

### $\ BLUE HITS$



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





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

#### Visit us at:





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