

Selection according to Machine and Turret type

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		SL 20 / SL 30	268-271

Selection according to Manufacturers

Manufacturer for Turning Machines	Available	Manufacturer for Turning Machines	Available
GILDEMEISTER	see SAUTER tools	INDEX	on request
emco innovative machine tools	see SAUTER tools	TRAUB	on request
MONFORTS CREATING NEW COMPETENCE	see SAUTER tools	NAKAMURA-TOME	on request
VICTOR®	see SAUTER tools	SPINNER	on request
FAMAR	see SAUTER tools	MAG HESSAPP	on request
DOOSAN	see SAUTER tools	MAG BOEHRINGER	on request
Heyligenstaedt	see SAUTER tools	ROMI®	on request
MAGDEBURG Werkzeugmaschinen AG	see SAUTER tools	HWACHEON	on request
NILES	see SAUTER tools	BOLEY Evolturn	on request
WEILER	see SAUTER tools		
WFL MILLTURN® TECHNOLOGIES	see SAUTER tools	DUPLOMATIC AUTOMAZIONE	on request
Colchester 600 Group	see SAUTER tools	BARUFFALDI	on request
		LARU	on request



Selection according to Tool type

		Manufacturer	Page
Straight Unit		MAZAK OKUMA SAUTER EMAG MORI SEIKI MIYANO BIGLIA HAAS	156 160, 164, 168, 174, 178, 182 186, 194, 202, 210, 216, 226 236, 244 252 262 266 268
Straight Unit, Offset type		MAZAK EMAG MURATEC	116, 124, 132, 136, 144, 152 237 258
Angle Unit		MAZAK OKUMA SAUTER EMAG MORI SEIKI MURATEC MIYANO BIGLIA HAAS	117, 125, 133, 137, 145, 153, 157 161, 165, 169-170, 175, 178, 183 187, 195, 203, 211, 217-218, 227-228 238, 245 253 259 263 267 269
Angle Unit, Offset type		SAUTER EMAG	188, 196, 204, 219-220, 229-230 239, 245
Angle Unit, 2-Axis		MAZAK SAUTER MORI SEIKI	118, 126 221, 231 254
Angle Unit, adjustable 0-100°		MAZAK SAUTER EMAG	119, 127, 138, 146 189, 197, 205, 212, 222, 232 240, 237
Y-Unit, adjustable ± 90°		MAZAK	120, 128, 139, 147
Saw Blade Holder		MAZAK SAUTER EMAG	121, 129, 140, 148 190, 198, 206, 220, 233 241, 248

Economical Complete Machining with Driven Toolholders



As a medium-size company with global activities, we are developing and producing CNC precision standard and special tools for the automotive, mechanical engineering, aircraft and woodworking industries since 1974.

The mimatic® brand is acknowledged worldwide for its compliance with strict quality requirements in the context of integrated system solutions for the machining segment.

The philosophy of the Company is based upon synergy between highly motivated staff and excellent standards in the areas of technology and quality development. These attributes enable us to provide the perfect solution to every specific customer requirement.

Products from mimatic® Zettl:

- Driven toolholders for CNC lathes and machining centers
- Cutting tools
- Clamping systems

Our quality systems have been approved since 1998 and we are certified to DIN EN ISO 9001:2000.

The know-how of our 140 employees worldwide is available to you at any time on location.

Many years ago we started to specialize in the production of driven toolholder units for metal processing. These are installed on CNC lathes.

Our products are used for large volume manufacturing and facilitate complete processing without multiple clamping of complex workpieces.

Our products contribute towards constant improvements in our customers production processes due to the use of the most modern technology allied to the highest levels of quality.



Versions

Our boring and milling units are suitable for most of the popular turning machines and lathe equipment manufacturers. We produce the following types:

- Straight and offset units
- Internal and/or external coolant supply
- Gear multiplication or reduction
- Single or multi-spindle versions
- Angle heads for the production of angled holes, by means of adjustable and fixed angles
- Sawblade holders for sawing or slotting of workpieces
- Every popular type of tool system can be supplied

Technology and quality is at the forefront of our business:

- Highly precise bearing technology (high quality spindle and taper roller bearings)
- Specially optimized gears guarantee an excellently smooth run
- High torque transmission, rigidity and RPM`s
- Highest concentricity and facing accuracy $< 3 \mu\text{m}$
- Internal coolant supply up to 80 bar
- Use of high pressure seals und friction optimized special seals
- Additional labyrinth seals protect the bearings from the penetration of dirt and coolant

- Internal clamping nut guarantees a compact tool length and optimum bearing positioning ensures maximum axial and radial support at the spindle and high stability
- Alignment pins/blocks on angle units for minimum setup time and fine centreline adjustment
- Limited dry usage of driven toolholders with internal coolant through the spindle (i.C.). Running in dry condition should be avoided. Tools should frequently run with coolant. Easily changeable from internal or external coolant supply.
- The coolant filtering capabilities of the machine should be $40 \mu\text{m}$ or less.

Modular Quick Change System „mimatic mi“

Advantages

- Universal tool clamping system for all production areas
- Presetting of the tools off-line by length adjustment screw
- Tool change within seconds
- Concentricity of the interface $< 0,002 \text{ mm}$
- Secure holding force by form-locking
- Very short design
- Toolholders in different sizes
- All toolholders with internal coolant

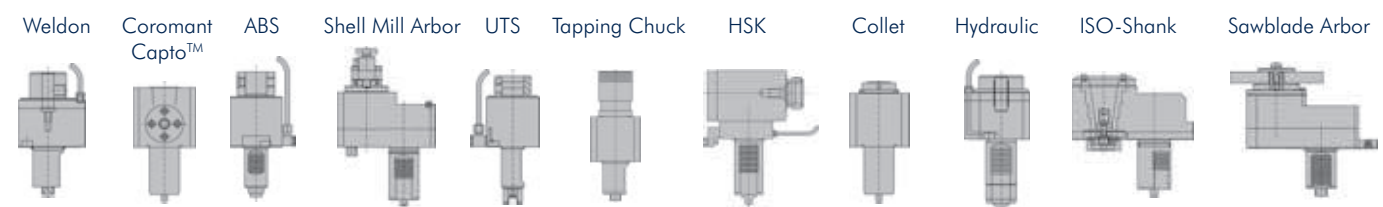
Modular Toolholders in different Sizes for all Production Areas

- Tapping toolholders
- Collet toolholders (internal and external nut)
- Hydro-Flex hydraulic toolholders
- Thread tightening toolholder cutters
- Morse taper shank toolholders
- Weldon and Whistle Notch toolholders
- Shell mill toolholders

All toolholders are available for use with your presetter.

Find more information on „mimatic mi“ on page 282-293.

Tool System Examples



Performance Values

The torques $M_{\max}$ specified in the tables below refer to shock-free processing (e.g. threaded cutting). For processes involving major shock loads (e.g. milling or multi-edge knocking), a value reduction of up to 50 % and more needs to be taken into account. The values $n_{\max}$ and $P_{\max}$ rendered are guideline values for short-time operation.

The permissible relative operating duration depends

- on the version of the spindle unit (with or without gear)
- on the presence of a cooling system and the type of cooling (external or internal through the tool spindle)
- on the processing torque

At a charge of about 60 % of the maximum values the working life calculated amounts to approx. 2.000 hours. Spindle units with gears produce more noise at higher speeds!

Operating Instructions

Initial Start-up: To ensure long tool life it is important to properly “run-in” the tools. This procedure serves to reduce the internal friction in the driven unit and to evenly distribute the grease in the precision bearings.

- **Max. RPM in the first operation hour should not exceed 70 % of the maximum permissible RPM.**
- **Never run the tool above the maximum permissible torque rate and/or maximum permissible RPM (see also the drawing of the unit).**

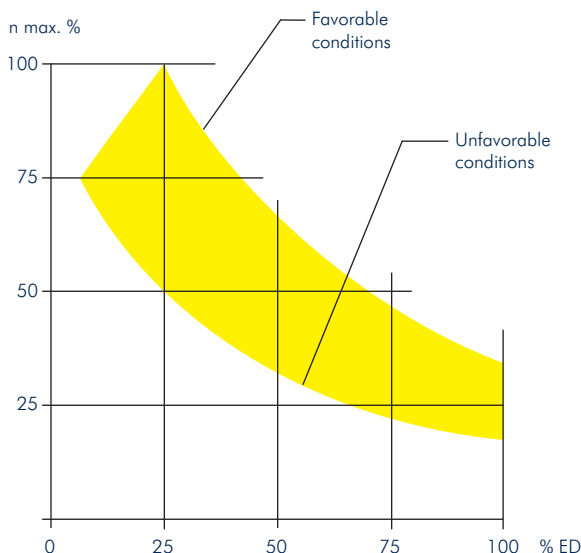
Tools with internal coolant through the spindle (i.C.): To avoid premature wear and damage to the seal system we recommend to filter the coolant to 40 μm minimum.

Filter grades of 40 μm worked in operation with very good results. The maximum permissible coolant pressure can be taken from the technical data of the driven toolholder.

Driven Toolholders with internal coolant through the spindle (i.C.) should **never run without coolant**. The coolant should flow through the tool, before the tool drive is switched on. Running in dry condition damages the internal seals.

Service interval: The tool life of the driven toolholder depends strongly on the application. Wear parts such as bearings and seals should be exchanged. We recommend to send the tools at least once annually to our service center for cleaning and regreasing. Tools with internal coolant through the spindle should be serviced every 6 months.

Optimum relative cycle times (Guideline Values)



Determination of the maximum permissible cycle times per minute $ED_{\max}$

The maximum permissible cycle times per minute may not be under any circumstances exceeded.

CT max: maximum permissible cycle times in percent per minute (%/min.)



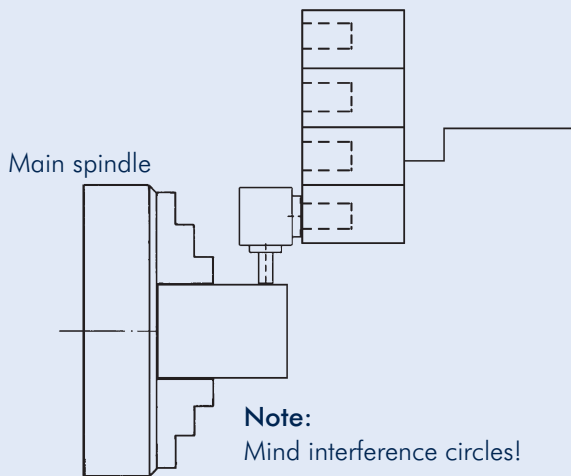
Guideline for Operations with Disc-type Turrets



Tools are fixed on the the revolver face!

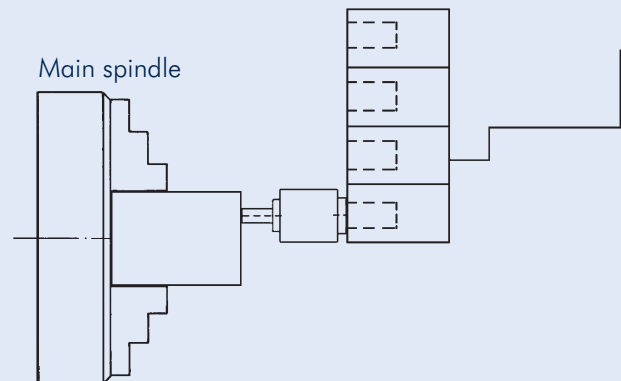
Radial Operation

Radial tool holders
with 90° angle

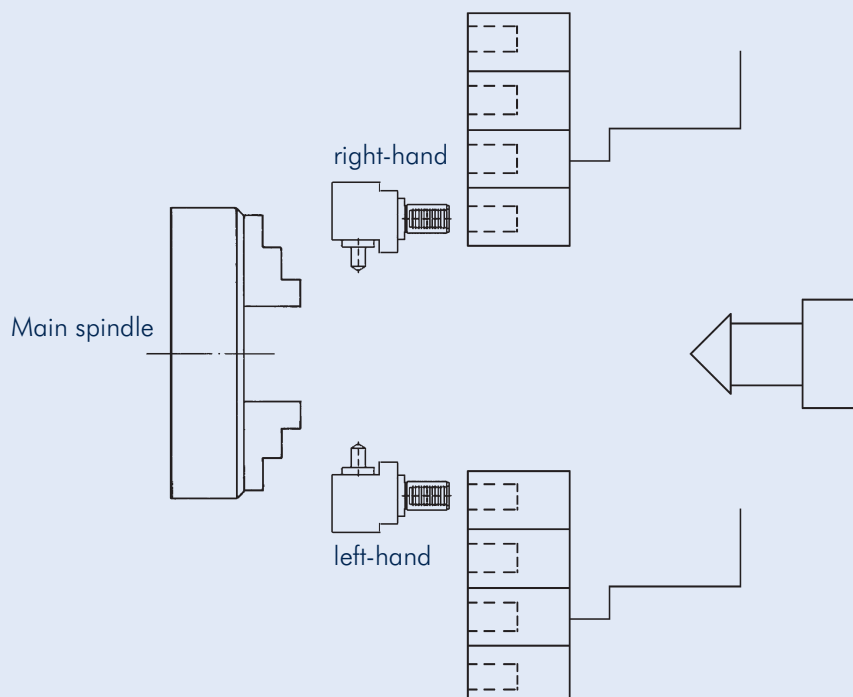


Axial Operation

Axial tool holders
straight version



Right- and left-hand versions of the Driven Toolholders



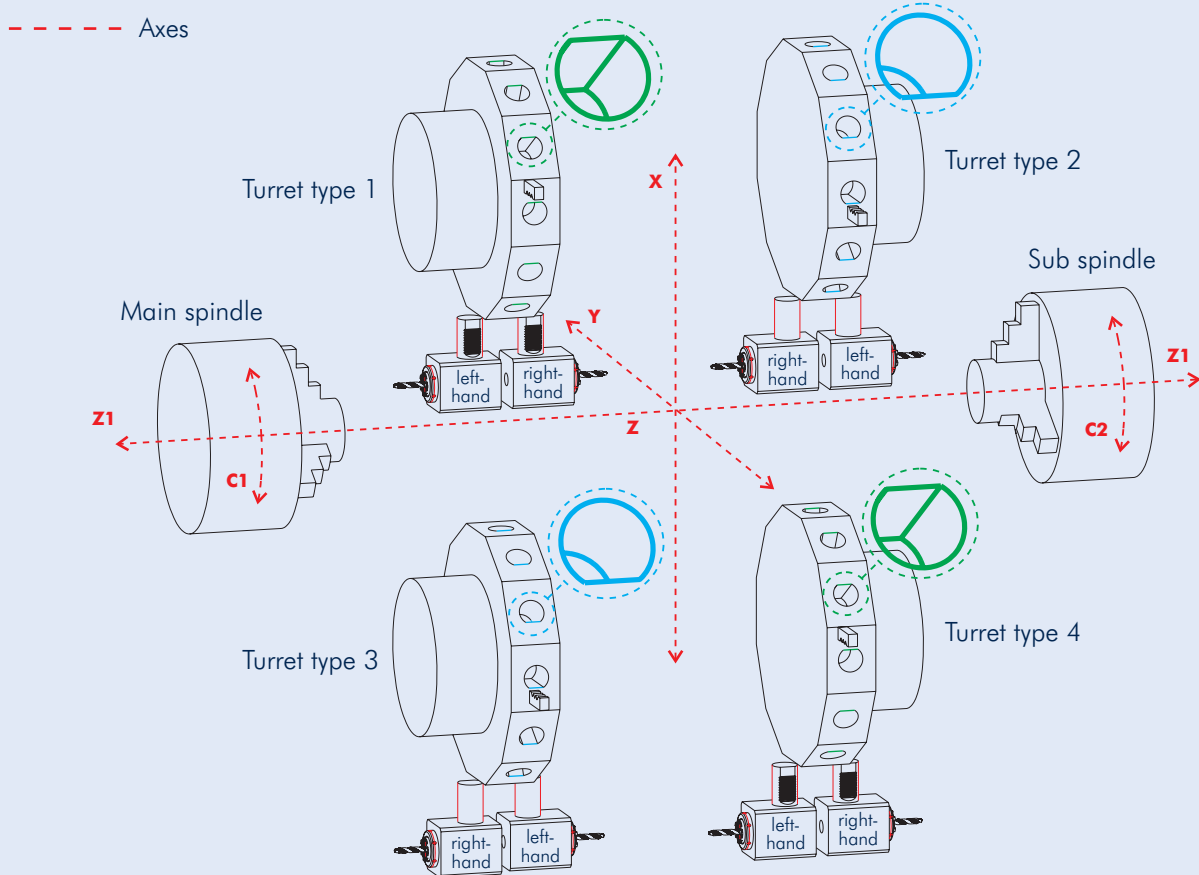
Guideline for Operations with Star-type Turrets



Tools are fixed on the the revolver circuit!

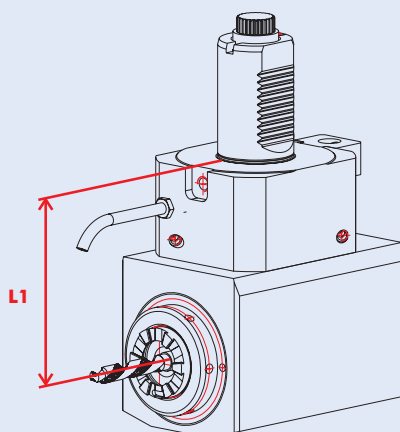
The orientation of the revolver to the spindle is important. Machines with Star-type Turrets often come with a sub spindle.

Right- and left-hand versions on Star-type Turrets with Main- and Sub-Spindle



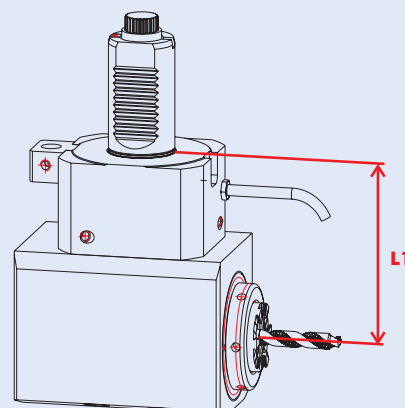
Left-hand version

Please note dimension L1



Right-hand version

Please note dimension L1



Please check interference circles with fixed tools!



Mazak

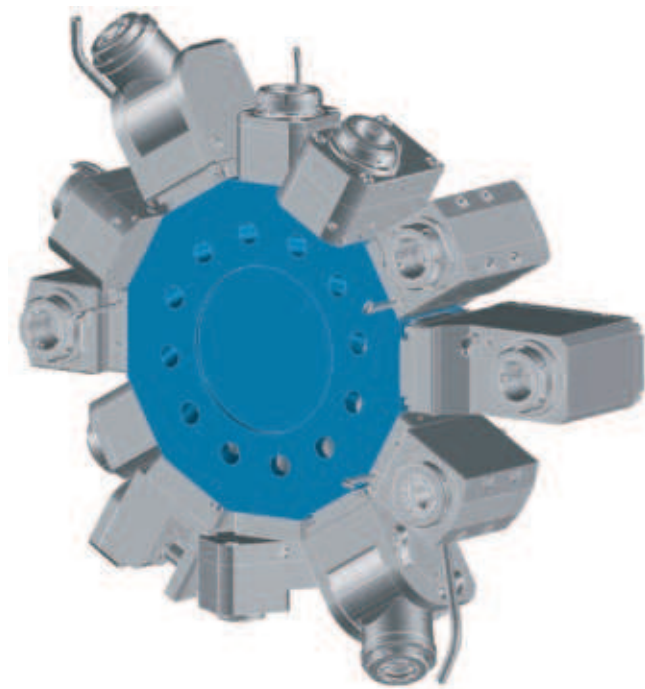
QUICK TURN NEXUS 100 + SUPER QUICK TURN 10

Data

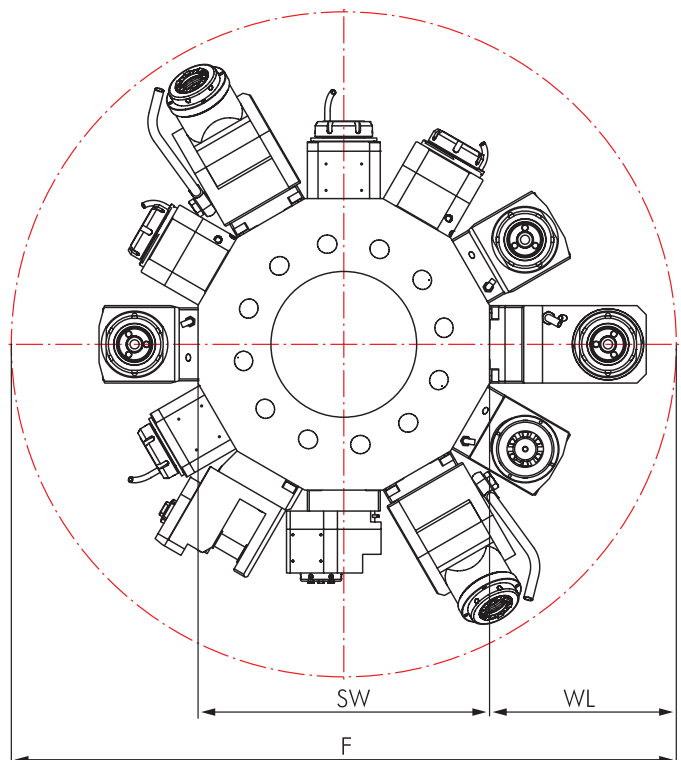
Machine type Series	Turret Stations
QTNX 100/100-II M / MS / MY / MSY	12
QTNX 200 M / MS / MY / MSY	16
QTNX 250 M / MS / MY / MSY	16
SQT 10 M / MS	12
SQT 100 M / MS	12
SQT 15 M / MS	16
SQT 200 M / MS	16
SQT 250 M / MS	16



Star-type Turret VDI 40



Interference Circles



Machine type Series	F	SW	WL
QTNX 100	564	286	139
SQT 10	564	286	139

Driven Toolholders

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Straight Unit, Offset type		116	Angle Unit, adjustable 0-100°		119
Angle Unit		117	Y-Unit, adjustable ± 90°		120
Angle Unit, 2-Axis		118	Saw Blade Holder		121

Options and Accessories

mi Toolholders		mi System Description Toolholders Accessories	283 287-291 290-292
Static Toolholders for MAZAK		Static Toolholders Accessories	297-301 302-303
Accessories		Collets DIN 6499 Threading Collets Wrenches Clamping Nuts Sleeves and Bushings	317 317 317 317 318



Straight Unit, Offset and without Offset T type

for Manufacturer

Mazak

for Machine type

NEXUS QTNX 100/100-II SQT 10

QTNX

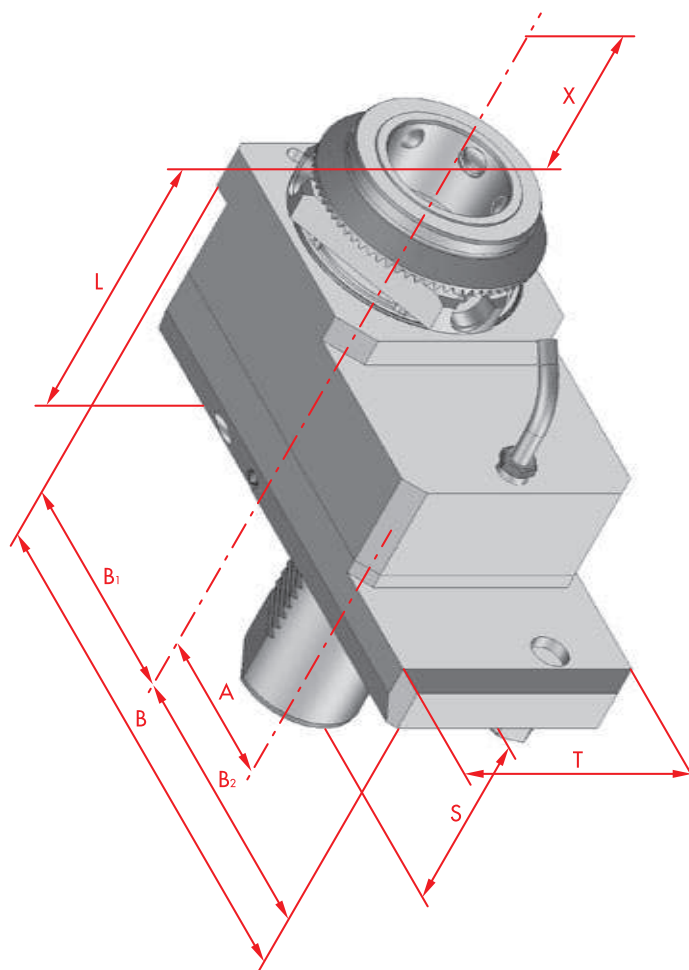
 100 M-12x
 200 M/MS-16x
 250 M/MS-16x

SQT

 10 M/MS-12x
 100 M/MS-12x
 15 M/MS-16x
 200 M/MS-16x
 250 M/MS-16x

Data

 Turret type
 Shank
 Drive
 SW

 Star-type Turret
 VDI 40
 Tang
 10 mm


Order No.	Tool holder	Clamping range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	X mm	L mm	A mm	B mm	B1 mm	B2 mm	S mm	T mm	MAZAK Ref. #
124042	ER 32	1,0-20	50 Nm	6.500 / 6.500	i = 1:1	external	49	90	50	170	90	80	60	80	532 480 30200
124268	ER 32	1,0-20	50 Nm	6.500 / 6.500	i = 1:1	internal	49	90	50	170	90	80	60	80	
124068	ER 25	0,5-16	25 Nm	6.500 / 13.000	i = 1:2	external	67,5	71,5	50	174	90	84	60	68	
124345	ER 25	0,5-16	25 Nm	6.500 / 13.000	i = 1:2	internal	49	90	50	170	90	80	60	80	
167934	MI 50		50 Nm	6.500 / 6.500	i = 1:1	internal	49	97	50	170	90	80	60	80	
Without offset:															
124265	ER 32	1,0-20	80 Nm	6.500/6.500	i = 1:1	internal	54	85	0	87	38	49	60	80	
167717	ER 32	1,0-20	80 Nm	6.500/6.500	i = 1:1	external	54	85	0	87	38	49	60	80	

Angle Unit

for Manufacturer

Mazak

for Machine type

NEXUS QTNX 100/100-II SQT 10

QTNX

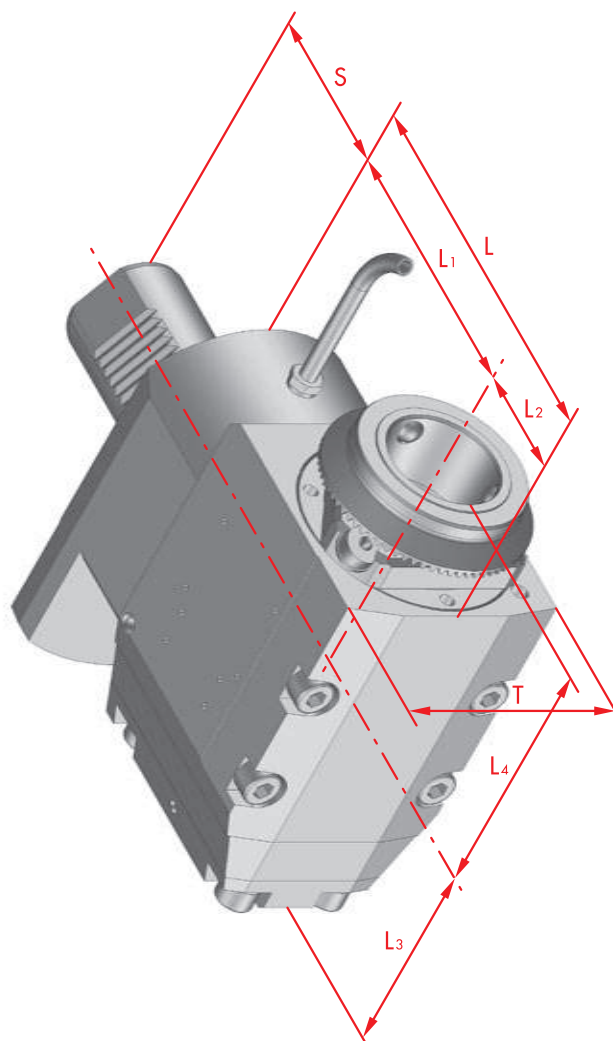
 100 M-12x
 200 M/MS-16x
 250 M/MS-16x

SQT

 10 M/MS-12x
 100 M/MS-12x
 15 M/MS-16x
 200 M/MS-16x
 250 M/MS-16x

Data

 Turret type
 Shank
 Drive
 SW

 Star-type Turret
 VDI 40
 Tang
 10 mm


Order No.	Tool holder	Clamping range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	L mm	L1 mm	L2 mm	L3 mm	L4 mm	S mm	T mm	MAZAK Ref. #
124651	ER 32	1,0-20	50 Nm	6.500 / 6.500	i = 1:1	external	134	95	39	69	76	60	85	532 480 03030
124887	ER 32	1,0-20	50 Nm	6.500 / 6.500	i = 1:1	internal	135	95	40	75,5	76	60	85	
124693	ER 25	0,5-16	25 Nm	6.500 / 13.000	i = 1:2	external	129	95	34	40	78	60	80	
124921	ER 25	0,5-16	25 Nm	6.500 / 13.000	i = 1:2	internal	134	95	39	72,5	75	60	80	
167933	MI 50		50 Nm	6.500 / 6.500	i = 1:1	internal	134	95	39	71	88	60	80	
124886	ER 25	0,5-16	50 Nm	6.500 / 6.500	i = 1:1	internal	135	95	39	75,5	80	60	80	
124652*	ER 32	1,0-20	50 Nm	6.500 / 6.500	i = 1:1	external	134	95	39	76	69	60	80	
170640*	ER 25	0,5-16	50 Nm	6.500 / 6.500	i = 1:1	internal	134	95	39	76	69	60	80	

* Type for Back Sub-Spindle

Angle Unit, 2-Axis

for Manufacturer

Mazak

for Machine type

NEXUS QTNX 100/100-II
SQT 10
QTNX

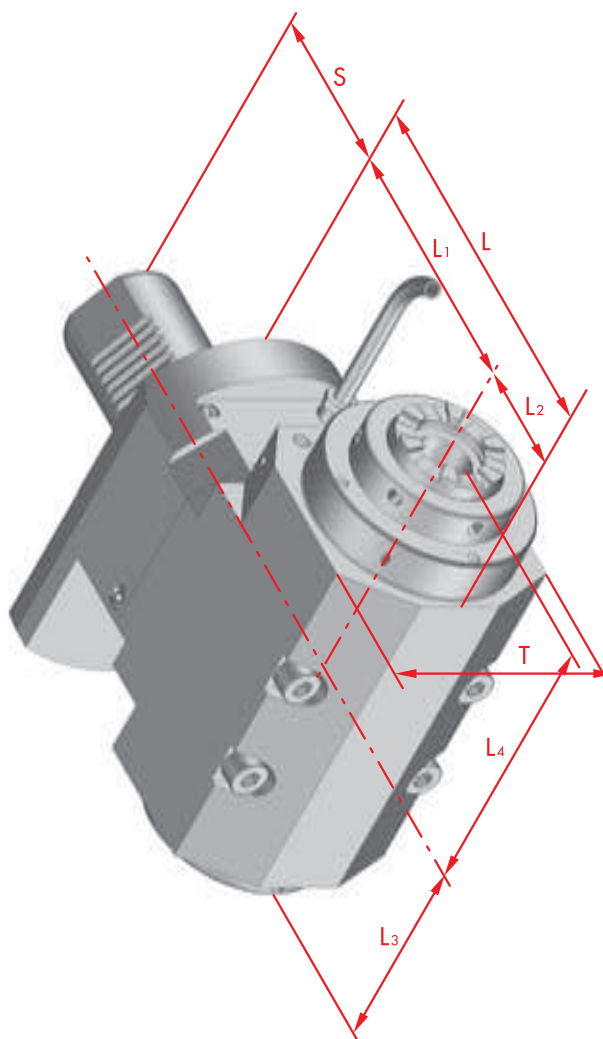
 100 M-12x
 200 M/MS-16x
 250 M/MS-16x

SQT

 10 M/MS-12x
 100 M/MS-12x
 15 M/MS-16x
 200 M/MS-16x
 250 M/MS-16x

Data

 Turret type
 Shank
 Drive
 SW

 Star-type Turret
 VDI 40
 Tang
 10 mm


Order No.	Tool holder	Clamping range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	L mm	L1 mm	L2 mm	L3 mm	L4 mm	S mm	T mm	MAZAK Ref. #
124649*	2 x ER 25	0,5-16	25 Nm	6.500 / 6.500	i = 1:1	external	134	100	34	62	62	60	70	
167306	2 x ER 32	1,0-20	50 Nm	6.500 / 6.500	i = 1:1	internal	134	95	39	70	93	60	80	

Angle Unit, adjustable 0-100°

for Manufacturer

Mazak

for Machine type

NEXUS QTNX 100/100-II SQT 10

QTNX

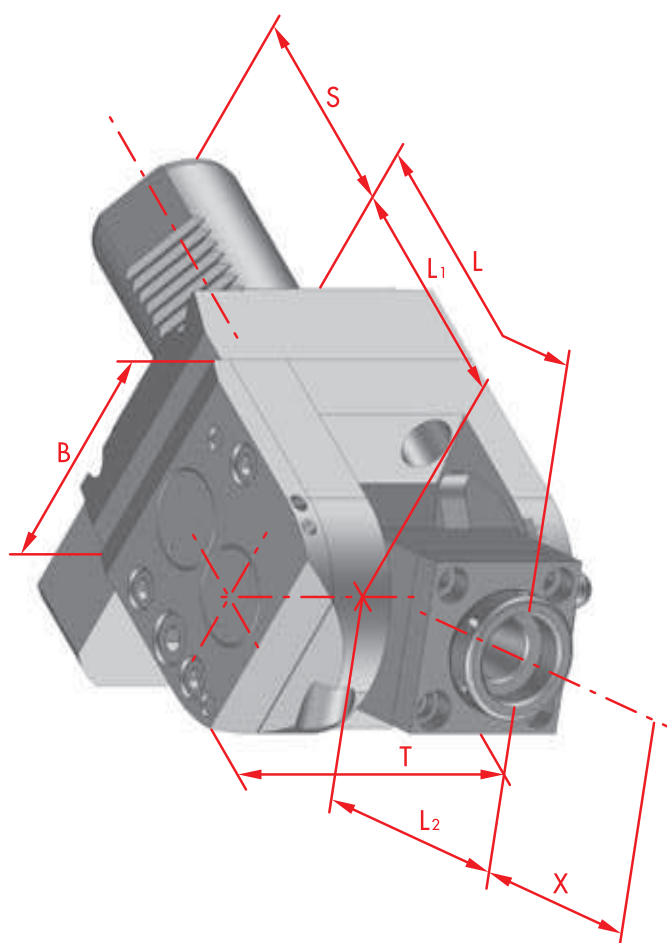
 100 M-12x
 200 M/MS-16x
 250 M/MS-16x

SQT

 10 M/MS-12x
 100 M/MS-12x
 15 M/MS-16x
 200 M/MS-16x
 250 M/MS-16x

Data

Turret type	Star-type Turret
Shank	VDI 40
Drive	Tang
SW	10 mm



Order No.	Tool holder	Clamping range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	X mm	L mm	L1 mm	L2 mm	B mm	S mm	T mm	MAZAK Ref. #
125034	ER 16	0,5-10	6 Nm	6.500 / 6.500	i = 1:1	external	4,5	134,5	73,5	61	114	60	80,5	
125055	ER 16	0,5-10	6 Nm	3.750 / 15.000	i = 1:4	external	4,5	134,5	73,5	61	114	60	80,5	

Y-Unit, adjustable $\pm 90^\circ$

for Manufacturer

Mazak

for Machine type

NEXUS QTNX 100/100-II
SQT 10

QTNX

100 M-12x
200 M/MS-16x
250 M/MS-16x

SQT

10 M/MS-12x
100 M/MS-12x
15 M/MS-16x
200 M/MS-16x
250 M/MS-16x

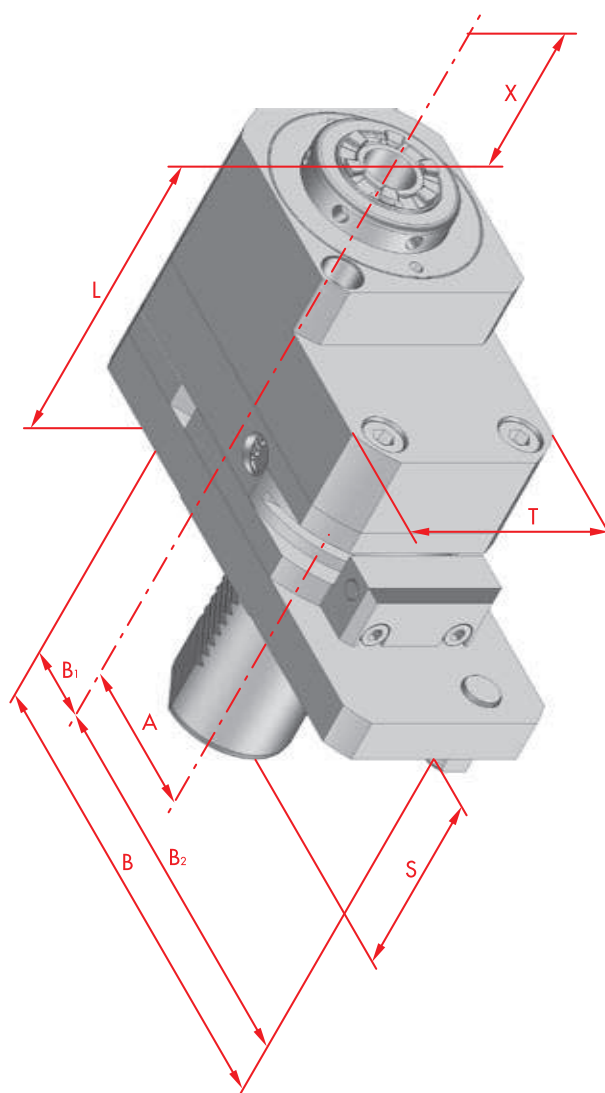
Data

Turret type
Type

Star-type Turret
 $\pm 90^\circ$ continuous
adjustable

Shank
Drive
SW

VDI 40
Tang
10 mm



Order No.	Tool holder	Clamping range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	X mm	L mm	A mm	B mm	S mm	T mm	MAZAK Ref. #
124120	ER 25	0,5-16	25 Nm	6.500 / 6.500	i = 1:1	external	39	100	50	164	60	68	

Saw Blade Holder

for Manufacturer

Mazak

for Machine type

NEXUS QTNX 100/100-II
SQT 10

QTNX

100 M-12x
200 M/MS-16x
250 M/MS-16x

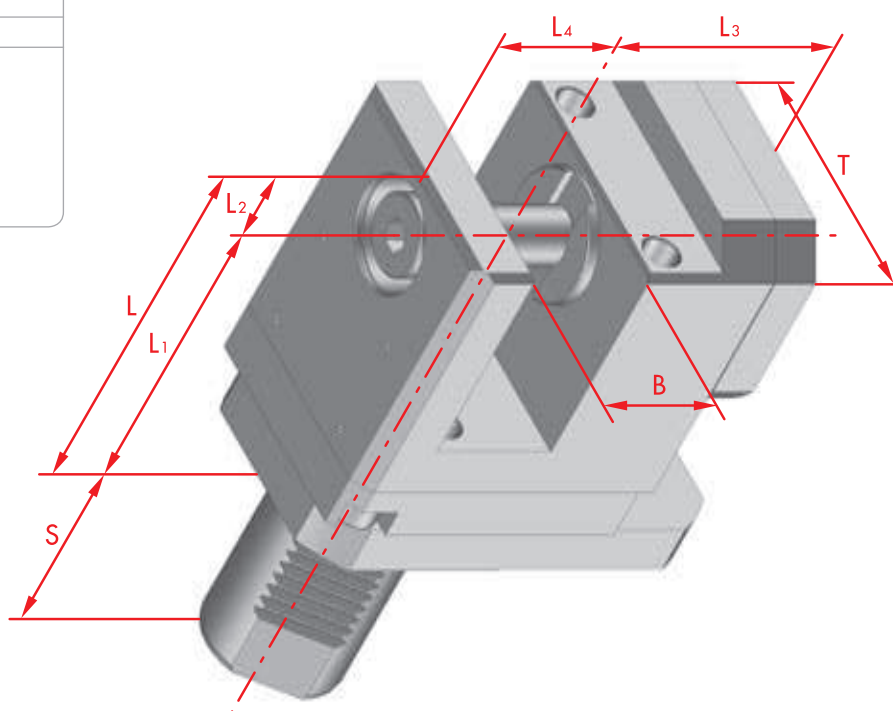
SQT

10 M/MS-12x
100 M/MS-12x
15 M/MS-16x
200 M/MS-16x
250 M/MS-16x

Data

Turret type
Shank
Drive
SW

Star-type Turret
VDI 40
Tang
10 mm



Order No.	Fitting dia. mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Kühlung	L mm	L1 mm	L2 mm	L3 mm	L4 mm	B mm	S mm	T mm	MAZAK Ref. #
125111	16	20 Nm	6.500 / 2.450	i = 2,66:1	external	115	85	30	77,5	36	25	60	72	
125110	22	20 Nm	6.500 / 2.450	i = 2,66:1	external	115	85	30	77,5	36	25	60	72	

Mazak

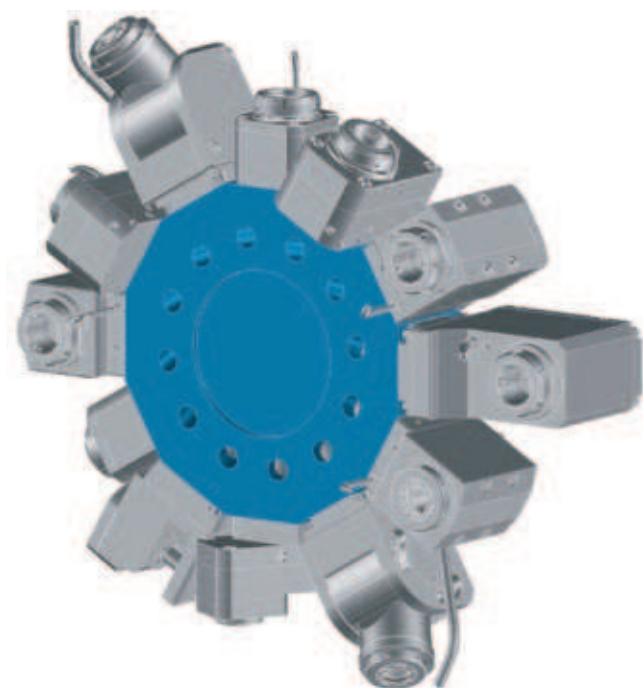
QUICK TURN NEXUS 200/250, SUPER QUICK TURN 15/18, SUPER QUADREX 200/250

Data

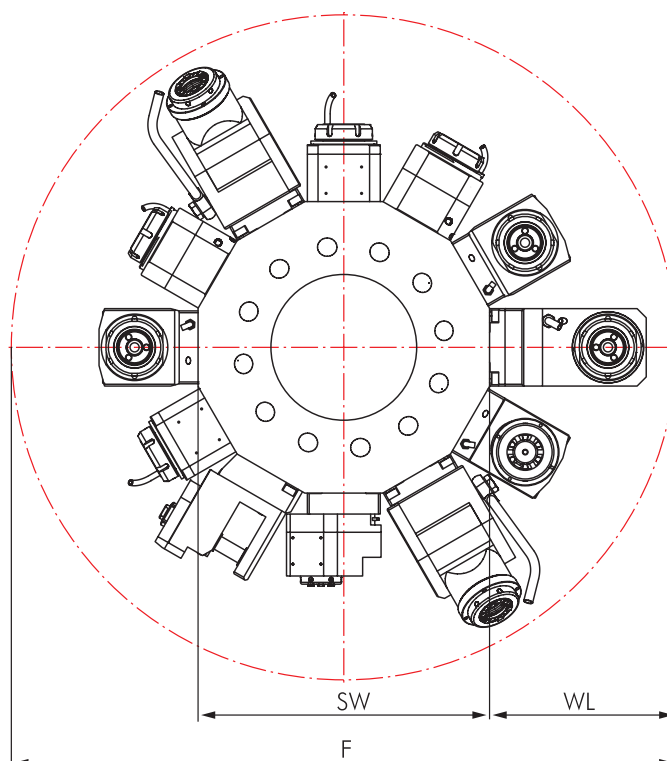
Machine type Series	Turret Stations
QTNX 200/200-II M / MY / MS / MSY	12
QTNX 250/250-II M / MY / MS / MSY	12
SQ 200/250	12
SQT 15 M / MS	12
SQT 18 M / MS	12
SQT 200 M / MS	12
SQT 250 M / MS	12



Star-type Turret VDI 40



Interference Circles



Machine type Series	F	SW	WL
QTNX 200/250	660	320	170
SQT 15/18	660	320	170
Super Quadrex 200/250	660	320	170

Mazak

QUICK TURN NEXUS 200/250, SUPER QUICK TURN 15/18, SUPER QUADREX 200/250

Driven Toolholders

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Straight Unit, Offset type		124	Angle Unit, adjustable 0-100°		127
Angle Unit		125	Y-Unit, adjustable ± 90°		128
Angle Unit, 2-Axis		126	Saw Blade Holder		129



Options and Accessories

mi Toolholders		mi System Description Toolholders Accessories	283 287-291 290-292
Static Toolholders for MAZAK		Static Toolholders Accessories	297-301 302-303
Accessories		Collets DIN 6499 Threading Collets Wrenches Clamping Nuts Sleeves and Bushings	317 317 317 317 318

Straight Unit, Offset and without Offset Type

for Manufacturer

Mazak

for Machine type

**NEXUS QTNX 200/250, SQT 15/18
+ SUPER QUADREX 200/250**
QTNX

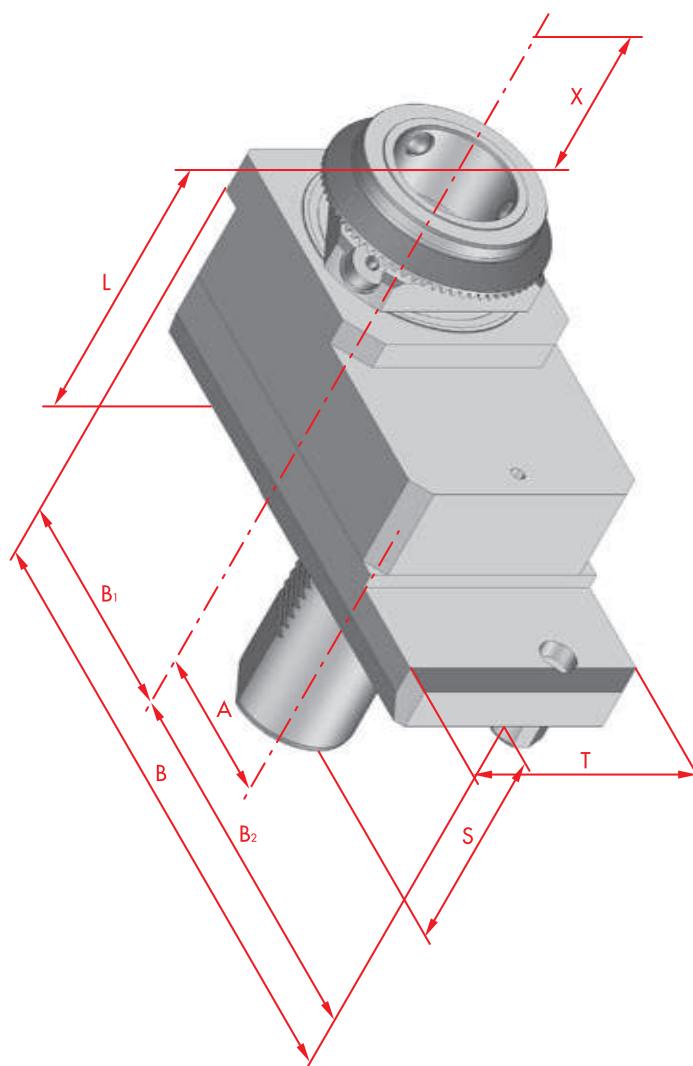
 200 M/MS-12x
250 M/MS-12x

SQT

 15 M/MS-12x
18 M/MS-12x
200 M/MS-12x
250 M/MS-12x

Dimensions

 Turret type
Shank
Drive
SW

 Star-type Turret
VDI 40
Tang
10 mm


Order No.	Tool holder	Clamping range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	X mm	L mm	A mm	B mm	B1 mm	B2 mm	S mm	T mm	MAZAK Ref. #
124034	ER 32	1,0-20	50 Nm	6.500 / 6.500	i = 1:1	external	80	90	50	170	90	80	70	80	532 080 20102
124259	ER 32	1,0-20	50 Nm	6.500 / 6.500	i = 1:1	internal	80	90	50	170	90	80	70	80	
123688	mi 50		50 Nm	6.500 / 6.500	i = 1:1	internal	-	97	50	170	90	80	70	80	
167294	HF 20	6,0-20	50 Nm	6.500 / 6.500	i = 1:1	internal	-	89	50	170	90	80	70	80	
124067	ER 25	0,5-16	25 Nm	6.500 / 13.000	i = 1:2	external	98,5	71,5	50	164	84	80	70	68	
100277	ER 25	0,5-16	25 Nm	6.500 / 13.000	i = 1:2	internal	80	90	50	170	90	80	70	68	
124375*	ER 32	1,0-20	50 Nm	6.500 / 6.500	i = 1:1	external	80	90	50	132	90	42	70	80	
124025	mi 50		50 Nm	6.500 / 6.500	i = 1:1	external	80	97	50	170	90	80	70	80	
123711	mi 40			6.500 / 13.000	i = 1:2	internal	80	112	50	170	90	80	70	80	
124033	ER 25	0,5-16	50 Nm	6.500/6.500	i = 1:1	external	80	90	50	170	90	80	70	80	
Without offset:															
124256	ER 32	1,0-20	80 Nm	6.500/6.500	i = 1:1	internal	85	85	0				70	75	

Angle Unit

for Manufacturer

Mazak

for Machine type

**NEXUS QTNX 200/250, SQT 15/18
+ SUPER QUADREX 200/250**
QTNX

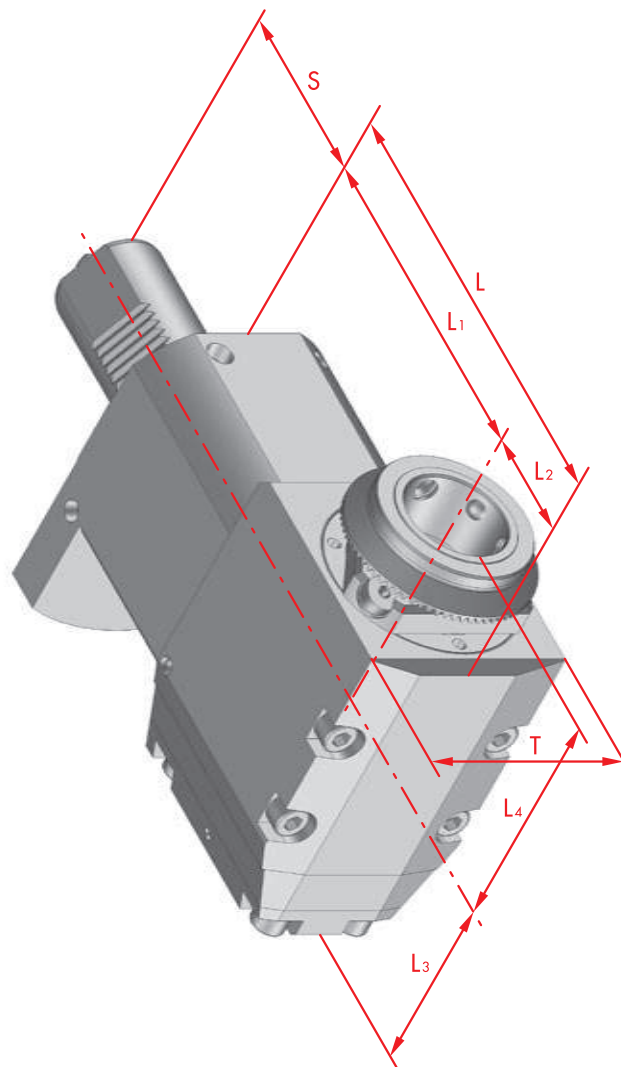
 200 M/MS-12x
250 M/MS-12x

SQT

 15 M/MS-12x
18 M/MS-12x
200 M/MS-12x
250 M/MS-12x

Dimensions

 Turret type
Shank
Drive
SW

 Star-type Turret
VDI 40
Tang
10 mm


Order No.	Tool holder	Clamping range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	L mm	L1 mm	L2 mm	L3 mm	L4 mm	S mm	T mm	MAZAK Ref. #
124635	ER 32	1,0-20	50 Nm	6.500 / 6.500	i = 1:1	external	169	130	39	69	70	70	80	532 080 20202
124691	ER 25	0,5-16	25 Nm	6.500 / 13.000	i = 1:2	external	164	130	34	40	78	70	80	
124918	ER 32	1,0- 20	25 Nm	6.500 / 13.000	i = 1:2	internal	169	130	39	72,5	91	70	80	
124873	ER 32	1,0-20	50 Nm	6.500 / 6.500	i = 1:1	internal	169	130	39	75,5	70	70	80	
124875	mi 50		50 Nm	6.500 / 6.500	i = 1:1	internal	173	130	43	71	88	70	80	
124636*	ER 32	1,0-20	50 Nm	6.500 / 6.500	i = 1:1	external	169	130	39	69	70	70	80	
124874*	ER 32	1,0-20	50 Nm	6.500 / 6.500	i = 1:1	internal	169	130	39	75,5	70	70	80	
101584	ER 25	0,5-16	25 Nm	6.500 / 13.000	i = 1:2	internal	169	130	39	72,5	75	70	80	
124639	mi 50		50 Nm	6.500 / 6.500	i = 1:1	external	173	130	43	71	88	70	80	
124919	mi 40		25 Nm	6.500 / 13.000	i = 1:2	internal	169	130	39	72,5	97	70	80	
167296	HF 20		50 Nm	6.500 / 6.500	i = 1:1	internal	169	130	39	75,5	82	70	80	
With offset 35 mm:														
166541*	ER 32	1,0-20	50 Nm	6.500 / 6.500	i = 1:1	internal	169	130	39	35	110,5	70	80	

* Type for Back Sub-Spindle

Angle Unit, 2-Axis

for Manufacturer

Mazak

for Machine type

**NEXUS QTNX 200/250, SQT 15/18
 + SUPER QUADREX 200/250**
QTNX

 200 M/MS-12x
 250 M/MS-12x

SQT

 15 M/MS-12x
 18 M/MS-12x
 200 M/MS-12x
 250 M/MS-12x

Dimensions

Turret type

Star-type Turret

Shank

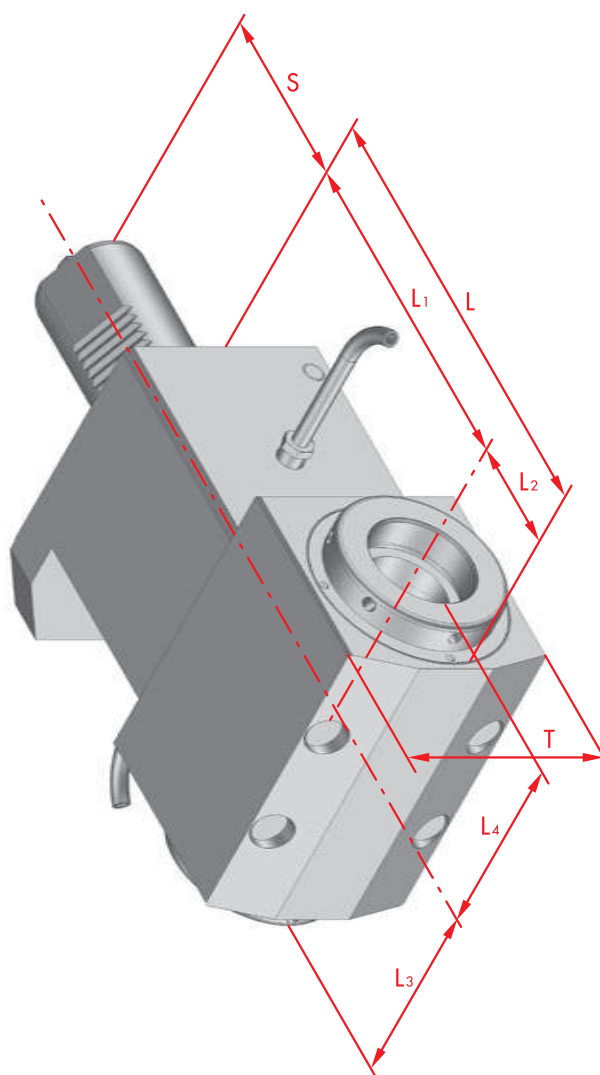
VDI 40

Drive

Tang

SW

10 mm



Order No.	Tool holder	Clamping range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	L mm	L1 mm	L2 mm	L3 mm	L4 mm	S mm	T mm	MAZAK Ref. #
124632*	2 x ER 25	0,5-16	25 Nm	6.500 / 6.500	i = 1:1	external	164	130	34	62	62	70	70	
124638	2 x ER 32	1,0-20	70 Nm	6.500 / 6.500	i = 1:1	external	169	130	39	70	70	70	80	
133725	2 x ER 32	1,0-20	70 Nm	6.500 / 6.500	i = 1:1	internal	169	130	39	70	93	70	80	
167955**	2 x ER 32	1,0-20	70 Nm	6.500 / 6.500	i = 1:1	internal	169	130	39	35	128	70	80	

Angle Unit, adjustable 0-100°

for Manufacturer

Mazak

for Machine type

**NEXUS QTNX 200/250, SQT 15/18
+ SUPER QUADREX 200/250**

QTNX

200 M/MS-12x
250 M/MS-12x

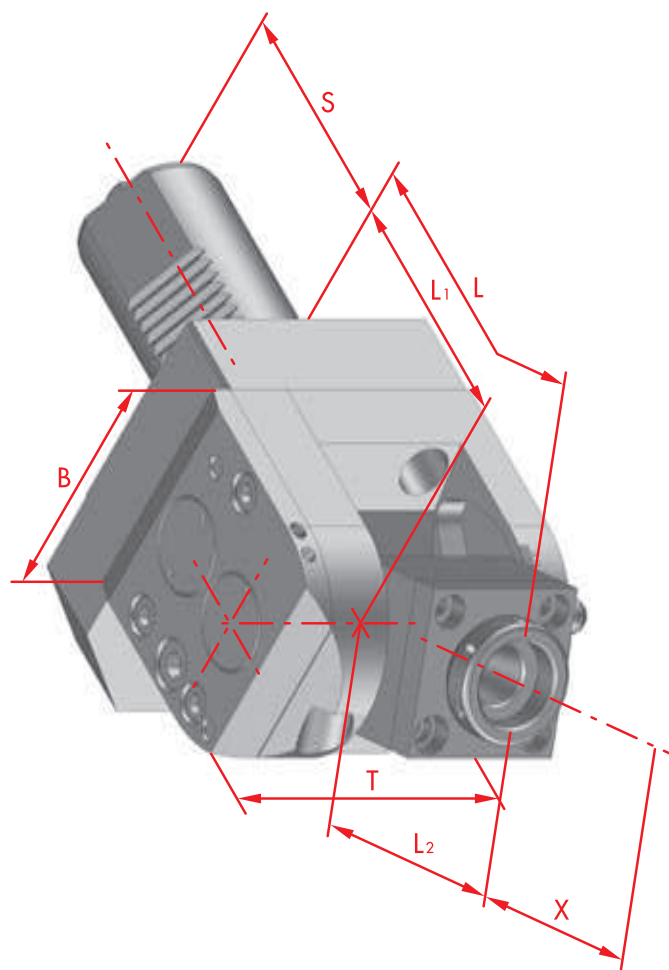
SQT

15 M/MS-12x
18 M/MS-12x
200 M/MS-12x
250 M/MS-12x

Dimensions

Turret type
Shank
Drive
SW

Star-type Turret
VDI 40
Tang
10 mm



Order No.	Tool holder	Clamping range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	X mm	L mm	L1 mm	L2 mm	B mm	S mm	T mm	MAZAK Ref. #
125027	ER 16	0,5-10	6 Nm	6.500 / 6.500	i = 1:1	external	35,5	134,5	73,5	61	114	70	80,5	
125054	ER 16	0,5-10	6 Nm	3.750 / 15.000	i = 1:4	external	35,5	134,5	73,5	61	114	70	80,5	

Y-Unit, adjustable $\pm 90^\circ$

for Manufacturer

Mazak

for Machine type

**NEXUS QTNX 200/250, SQT 15/18
+ SUPER QUADREX 200/250**
QTNX

 200 M/MS-12x
250 M/MS-12x

SQT

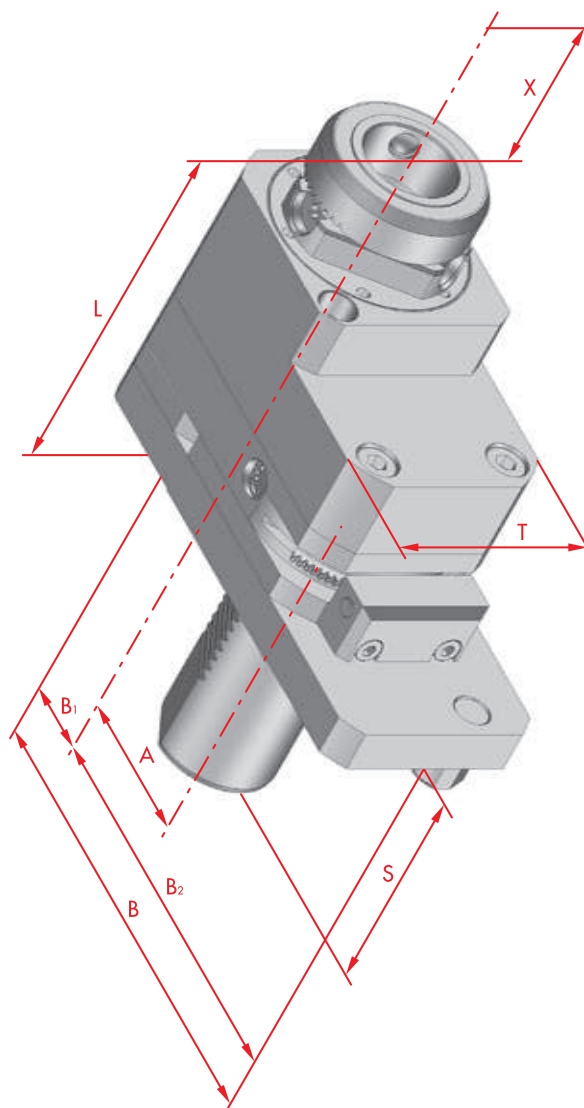
 15 M/MS-12x
18 M/MS-12x
200 M/MS-12x
250 M/MS-12x

Dimensions

 Turret type
Type

 Star-type Turret
 $\pm 90^\circ$ continuous
adjustable

 Shank
Drive
SW

 VDI 40
Tang
10 mm


Order No.	Tool holder	Clamping range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	X mm	L mm	A mm	B mm	S mm	T mm	MAZAK Ref. #
124118	ER 25	0,5-16	25 Nm	6.500 / 6.500	i = 1:1	external	70	100	50	164	70	68	
169140	mi 40		25 Nm	6.500 / 6.500	i = 1:1	external	-	121	50	164	70	68	

Saw Blade Holder

for Manufacturer

Mazak

for Machine type

**NEXUS QTNX 200/250, SQT 15/18
 + SUPER QUADREX 200/250**
QTNX

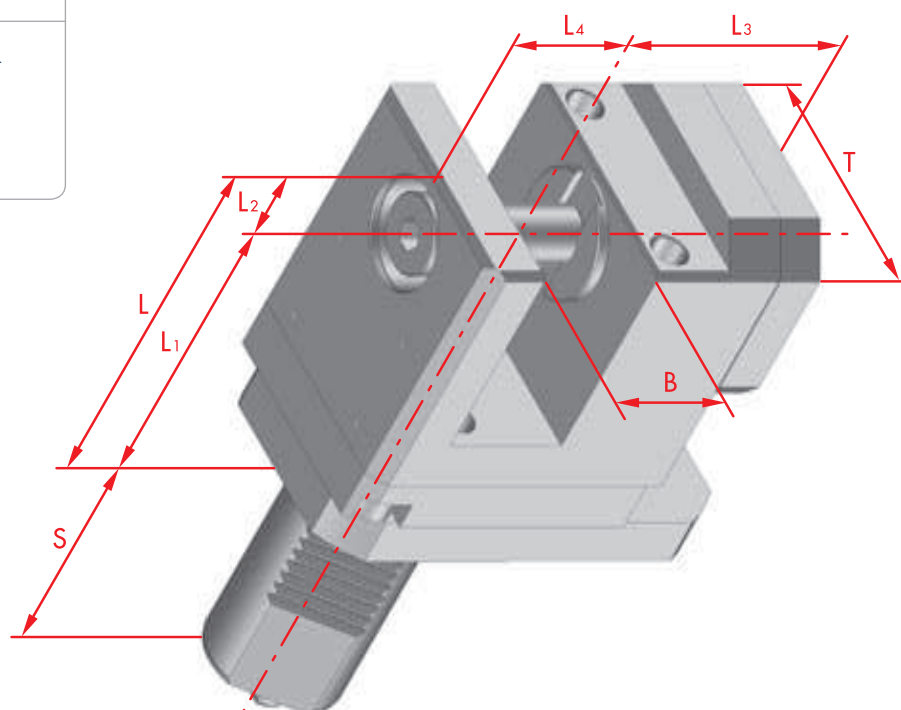
 200 M/MS-12x
 250 M/MS-12x

SQT

 15 M/MS-12x
 18 M/MS-12x
 200 M/MS-12x
 250 M/MS-12x

Dimensions

 Turret type
 Shank
 Drive
 SW

 Star-type Turret
 VDI 40
 Tang
 10 mm


Order No.	Fitting dia. mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	L mm	L1 mm	L2 mm	L3 mm	L4 mm	B mm	S mm	T mm	MAZAK Ref. #
125104	22	20 Nm	6.500 / 2.450	i = 2,66:1	external	115	85	30	77,5	36	25	70	72	
125123	22	40 Nm	6.500 / 2.450	i = 2,66:1	external	165	130	35	87,5	36	25	70	72	

Mazak

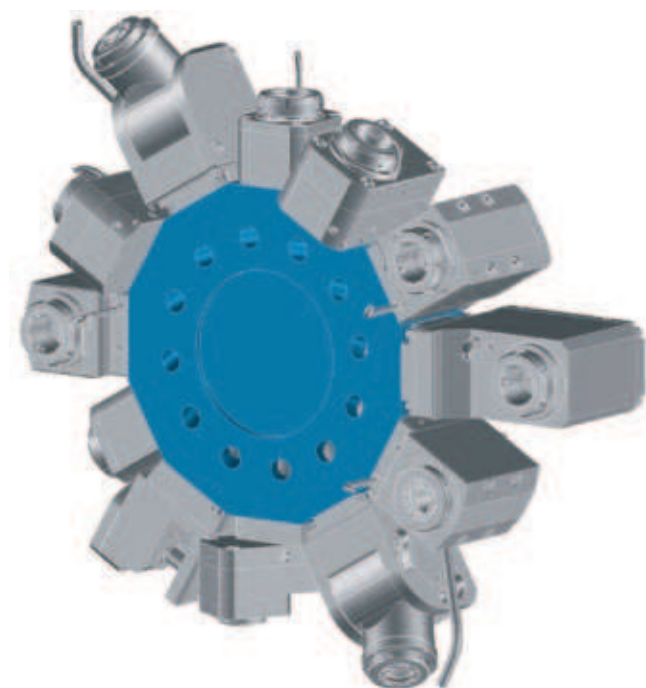
QUICK TURN NEXUS 300/350/400/450 + SUPER QUICK TURN 28/30

Data

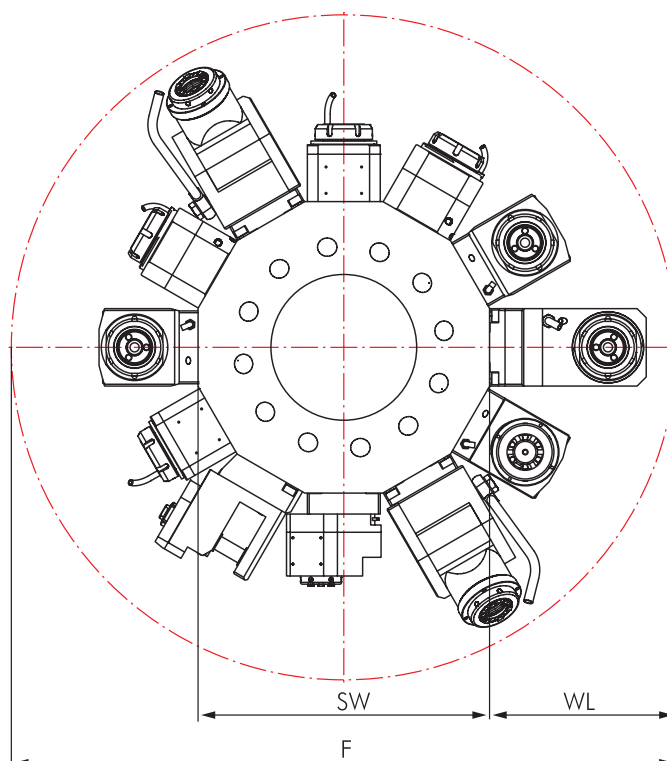
Machine type Series	Turret Stations
QTNX 300/300-II M / MY	12
QTNX 350/350-II M / MY	12
QTNX 400/400-II M	12
QTNX 450/450-II M	12
SQT 28 M / MS	12
SQT 30 M / MS	12
SQT 300 M / MS	12



Star-type Turret VDI 50



Interference Circles



Machine type Series	F	SW	WL
QTNX 300/400	810	380	215
SQT 28/30	810	380	215

Driven Toolholders

	Page		Page		
Straight Unit, Offset type		132	Angle Unit		133

Options and Accessories

mi Toolholders		mi System Description Toolholders Accessories	283 287-291 290-292
Static Toolholders for MAZAK		Static Toolholders Accessories	297-301 302-303
Accessories		Collets DIN 6499 Threading Collets Wrenches Clamping Nuts Sleeves and Bushings	317 317 317 317 318

Straight Unit, Offset type

for Manufacturer

Mazak

for Machine type

**NEXUS QTNX 300/350/
400/450 + SQT 28/30**
QTNX

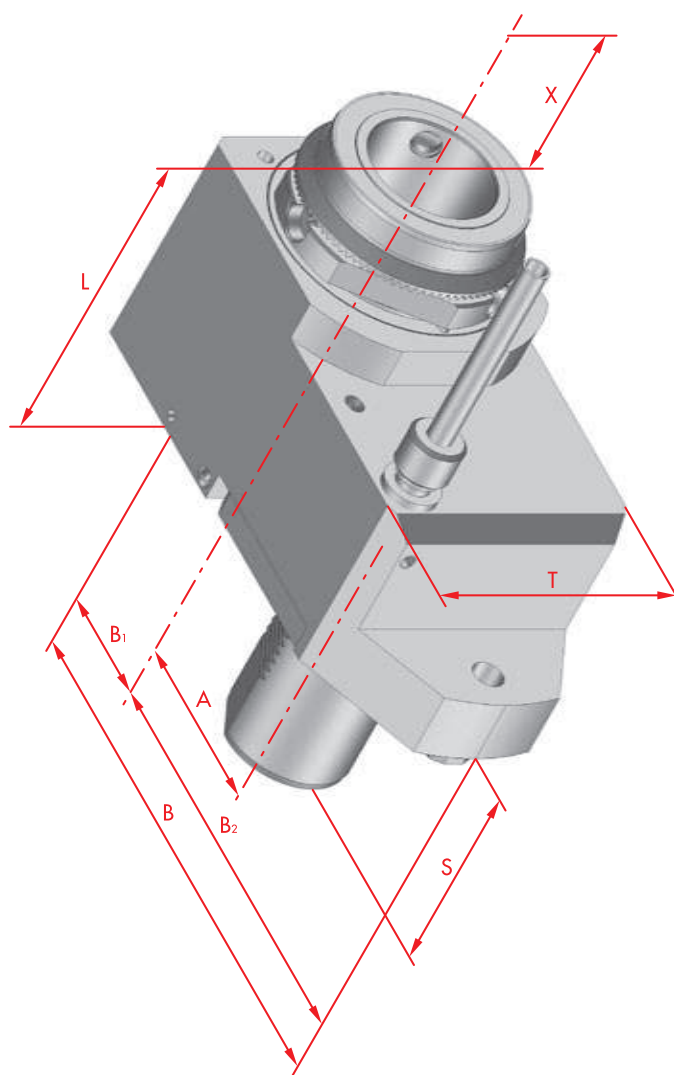
 300 M/MY-12x
 350 M/MY-12x
 400 M-12x
 450 M-12x

SQT

 28 M/MS-12x
 30 M/MS-12x
 300 M/MS-12x

Dimensions

 Turret type
 Shank
 Drive
 SW

 Star-type Turret
 VDI 50
 Tang
 12 mm


Order No.	Tool holder	Clamping range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	X mm	L mm	A mm	B mm	B1 mm	B2 mm	S mm	T mm	MAZAK Ref. #
124037	ER 40	2,0-26	100 Nm	6.500 / 6.500	i = 1:1	external	82	133	76	208	126	82	75	100	
123690	ER 40	2,0-26	100 Nm	6.500 / 6.500	i = 1:1	internal	74	141	76	208	126	82	75	100	
123691	mi 63		100 Nm	6.500 / 6.500	i = 1:1	internal	95	126	76	208	126	82	75	100	
131538	SK 40		100 Nm	5.200 / 5.200	i = 1:1	external	116	99	76	208	126	82	75	96	533 080 20500

Angle Unit

for Manufacturer

Mazak

for Machine type

**NEXUS QTNX 300/350/
400/450 + SQT 28/30**
QTNX

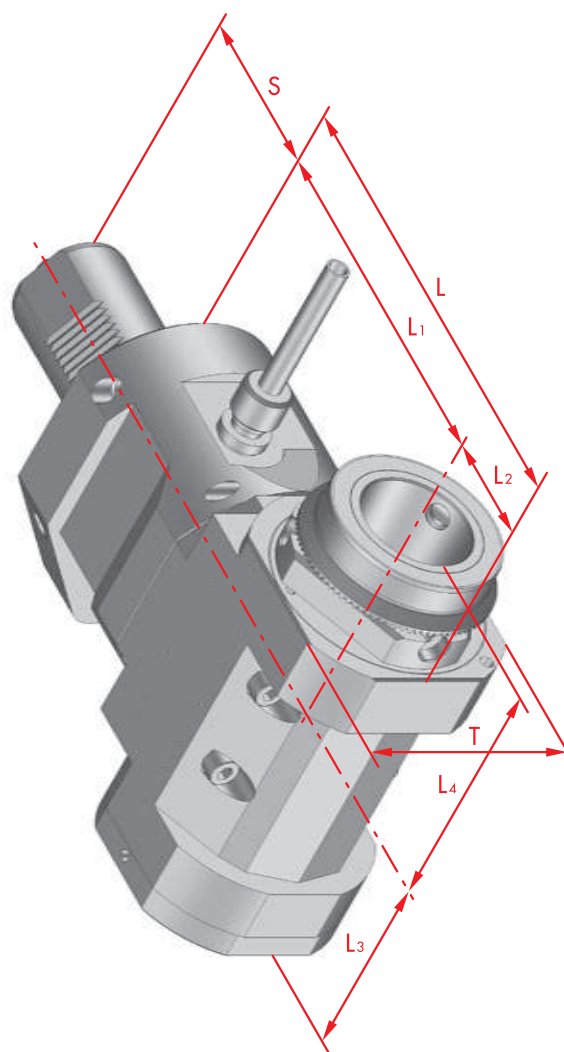
 300 M/MY-12x
 350 M/MY-12x
 400 M-12x
 450 M-12x

SQT

 28 M/MS-12x
 30 M/MS-12x
 300 M/MS-12x

Dimensions

 Turret type
 Shank
 Drive
 SW

 Star-type Turret
 VDI 50
 Tang
 12 mm


Order No.	Tool holder	Clamping range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	L mm	L1 mm	L2 mm	L3 mm	L4 mm	S mm	T mm	MAZAK Ref. #
124641	ER 40	2-30	100 Nm	6.500 / 6.500	i = 1:1	external	210	160	50	91,5	119,5	75	96	
124877	ER 40	2-30	100 Nm	6.500 / 6.500	i = 1:1	internal	210	160	50	91,5	119,5	75	96	
124878	mi 63		100 Nm	6.500 / 6.500	i = 1:1	internal	210	160	50	91,5	103	75	96	
131591	SK 40		80 Nm	5.200 / 5.200	i = 1:1	external	210	160	50	85	78	75	96	533 080 20100

Mazak

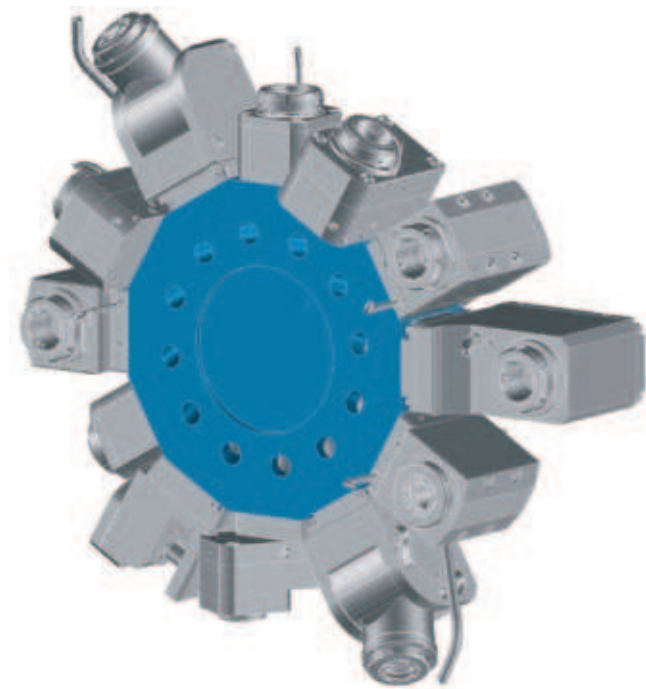
MULTIPLEX 610/6100/6200 + HYPER QUADREX MSY 150

Data

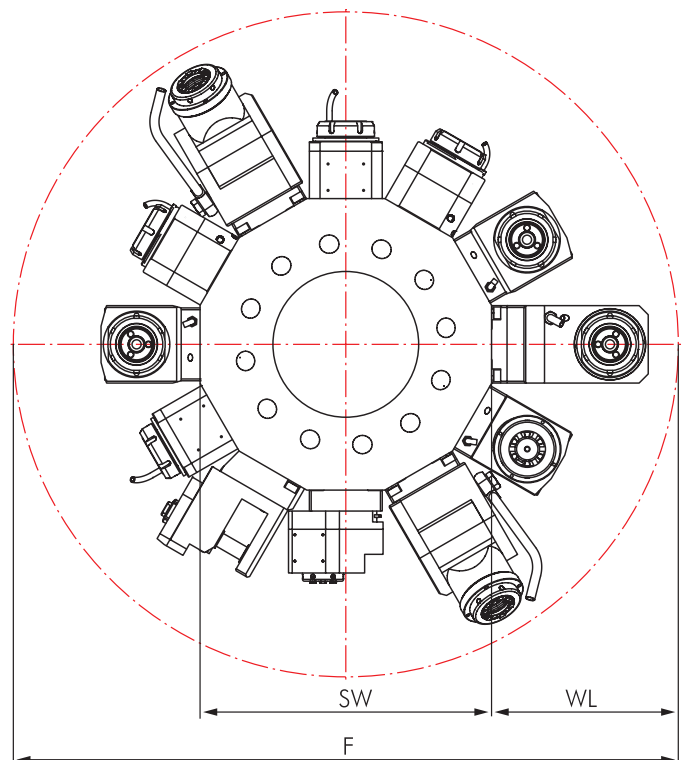
Machine type Series		Turret Stations
MP 610		12
MP 6100/6100	Y	16
MP 6200/6200	Y	16
HQ 150	MSY	12



Star-type Turret VDI 40



Interference Circles



Machine type Series	F	SW	WL
Multiplex 610 / 6100	596	286	155
Multiplex 6200	596	286	155

Driven Toolholders

	Page		Page		
Straight Unit, Offset type		136	Angle Unit, adjustable 0-100°		138
Angle Unit		137	Y-Unit, adjustable ± 90°		139
			Saw Blade Holder		140

Options and Accessories

mi Toolholders		mi System Description Toolholders Accessories	283 287-291 290-292
Static Toolholders for MAZAK		Static Toolholders Accessories	297-301 302-303
Accessories		Collets DIN 6499 Threading Collets Wrenches Clamping Nuts Sleeves and Bushings	317 317 317 317 318

Straight Unit, Offset type

for Manufacturer

Mazak

for Machine type

MULTIPLEX 610/6100/6200
HYPER QUADREX MSY 150
MP

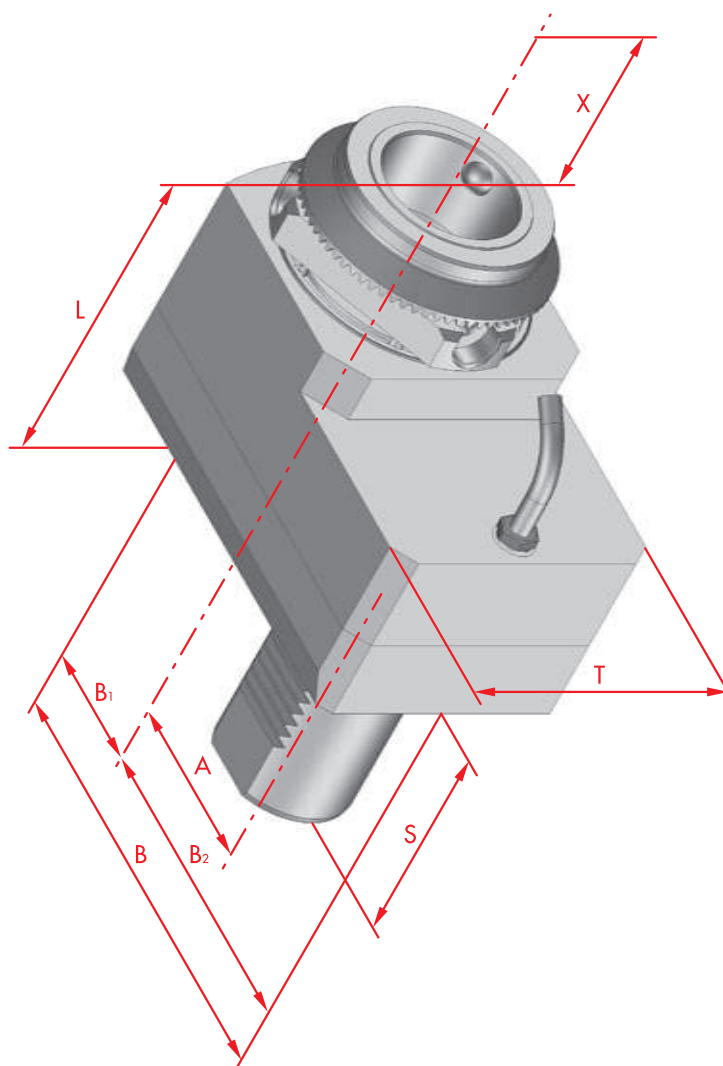
 610 - 12x
 6100 - 16x
 6200 - 16x

HQ MSY

150 - 12x

Dimensions

 Turret type
 Shank
 Drive
 SW

 Star-type Turret
 VDI 40
 Tang
 10 mm


Order No.	Tool holder	Clamping range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	X mm	L mm	A mm	B mm	B1 mm	B2 mm	S mm	T mm	MAZAK Ref. #
124018	ER 32	1,0-20	50 Nm	6.500 / 6.500	i = 1:1	external	65	90	50	132	90	42	60	80	
124252	ER 32	1,0-20	50 Nm	6.500 / 6.500	i = 1:1	internal	65	90	50	132	90	42	60	80	
124064	ER 25	0,5-16	25 Nm	6.500 / 13.000	i = 1:2	external	83,5	71,5	50	118	84	34	60	68	
124342	ER 25	0,5-16	25 Nm	6.500 / 13.000	i = 1:2	internal	65	90	50	132	90	42	60	80	
123681	ER 25	0,5-16	50 Nm	6.500 / 6.500	i = 1:1	internal	65	90	50	132	90	42	60	80	
124013	mi 50		50 Nm	6.500 / 6.500	i = 1:1	external	65	97	50	132	90	42	60	80	
123683	mi 50		50 Nm	6.500 / 6.500	i = 1:1	internal	-	97	50	132	90	42	60	80	
123680	HF 20	6,0-20	50 Nm	6.500 / 6.500	i = 1:1	internal	-	89	50	132	90	42	60	80	

Angle Unit

for Manufacturer

Mazak

for Machine type

MULTIPLEX 610/6100/6200
HYPER QUADREX MSY 150
MP

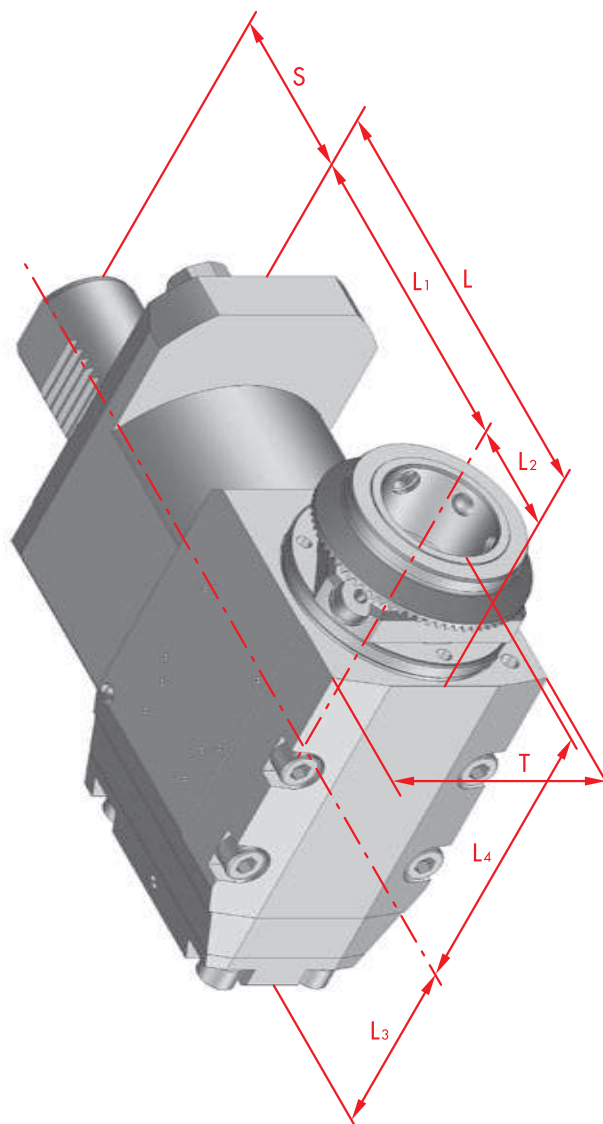
 610 - 12x
 6100 - 16x
 6200 - 16x

HQ MSY

150 - 12x

Dimensions

 Turret type
 Shank
 Drive
 SW

 Star-type Turret
 VDI 40
 Tang
 10 mm


Order No.	Tool holder	Clamping range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	L mm	L1 mm	L2 mm	L3 mm	L4 mm	S mm	T mm	MAZAK Ref. #
124610	ER 32	1,0-20	50 Nm	6.500 / 6.500	i = 1:1	external	154	115	39	69	70	60	85	
124854	ER 32	1,0-20	50 Nm	6.500 / 6.500	i = 1:1	internal	154	115	39	71	70	60	85	
124856	mi 50		50 Nm	6.500 / 6.500	i = 1:1	internal	155	154	39	71	88	60	80	
124689	ER 25	0,5-16	25 Nm	6.500 / 13.000	i = 1:2	external	149	115	34	40	78	60	80	
124850	HF 20	6,0-20	50 Nm	6.500 / 6.500	i = 1:1	internal	149	115	39	71	81	60	80	
170167	mi 40		25 Nm	6.500 / 13.000	i = 1:2	external	149	115	34	40	97	60	80	
124915	mi 40		25 Nm	6.500 / 13.000	i = 1:2	internal	154	115	39	72,5	97	60	80	

Angle Unit, adjustable 0-100°

for Manufacturer

Mazak

for Machine type

MULTIPLEX 610/6100/6200
HYPER QUADREX MSY 150
MP

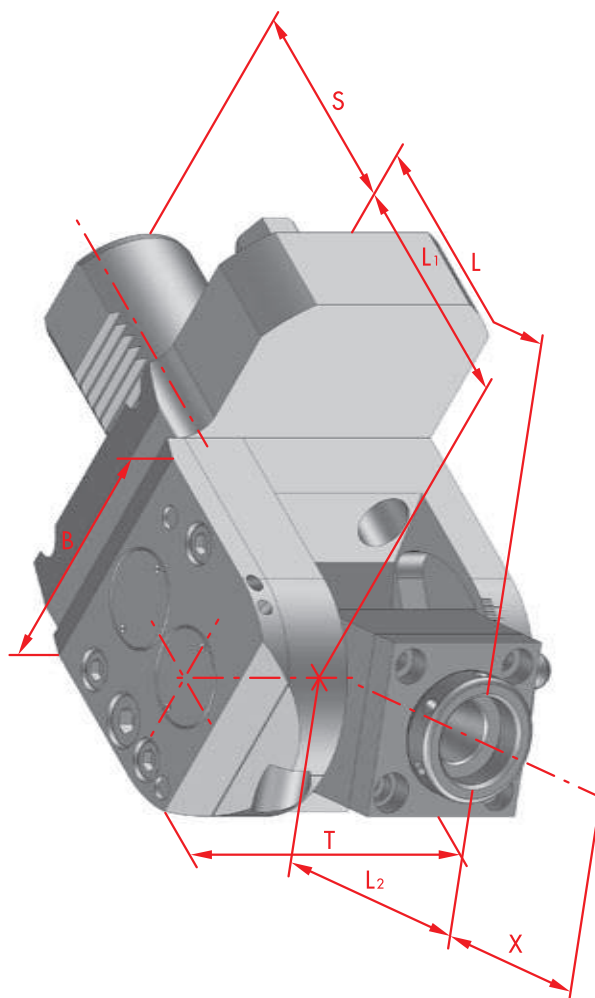
 610 - 12x
 6100 - 16x
 6200 - 16x

HQ MSY

150 - 12x

Dimensions

 Turret type
 Shank
 Drive
 SW

 Star-type Turret
 VDI 40
 Tang
 10 mm


Order No.	Tool holder	Clamping range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	X mm	L mm	L1 mm	L2 mm	B mm	S mm	T mm	MAZAK Ref. #
125024	ER 16	0,5-10	6 Nm	6.500 / 6.500	i = 1:1	external	20,5	134,5	73,5	61	114	60	80,5	
125051	ER 16	0,5-10	6 Nm	3.750 / 15.000	i = 1:4	external	20,5	134,5	73,5	61	114	60	80,5	

Y-Unit, adjustable $\pm 90^\circ$

for Manufacturer

Mazak

for Machine type

MULTIPLEX 610/6100/6200
HYPER QUADREX MSY 150
MP

 610 - 12x
 6100 - 16x
 6200 - 16x

HQ MSY

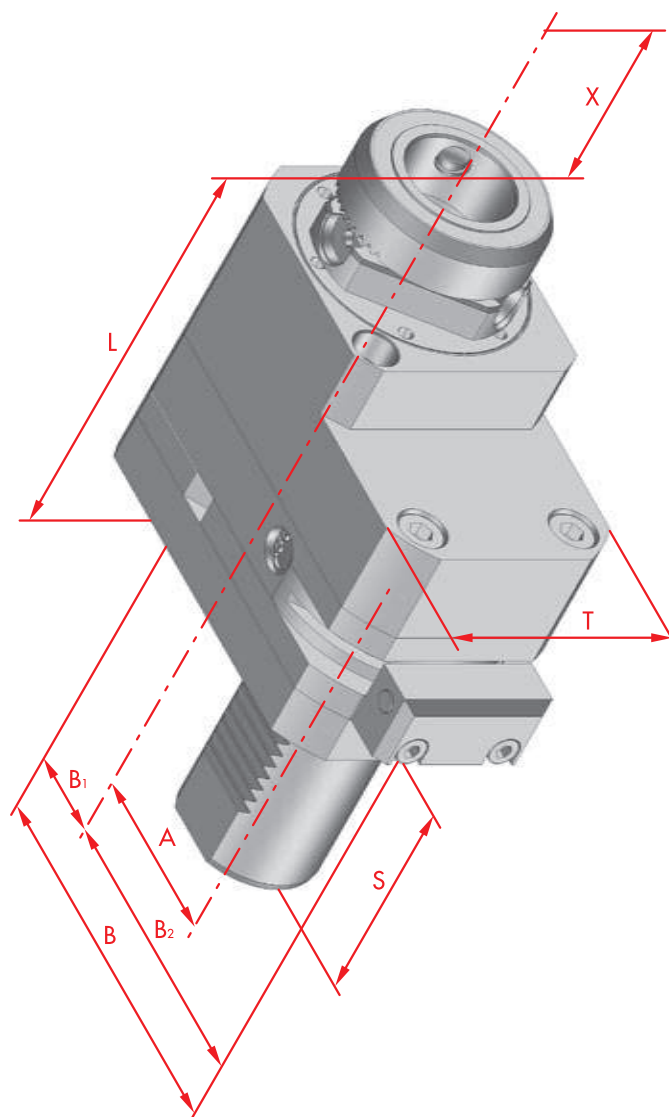
150 - 12x

Dimensions

 Turret type
 Type

 Star-type Turret
 $\pm 90^\circ$ continuous
 adjustable

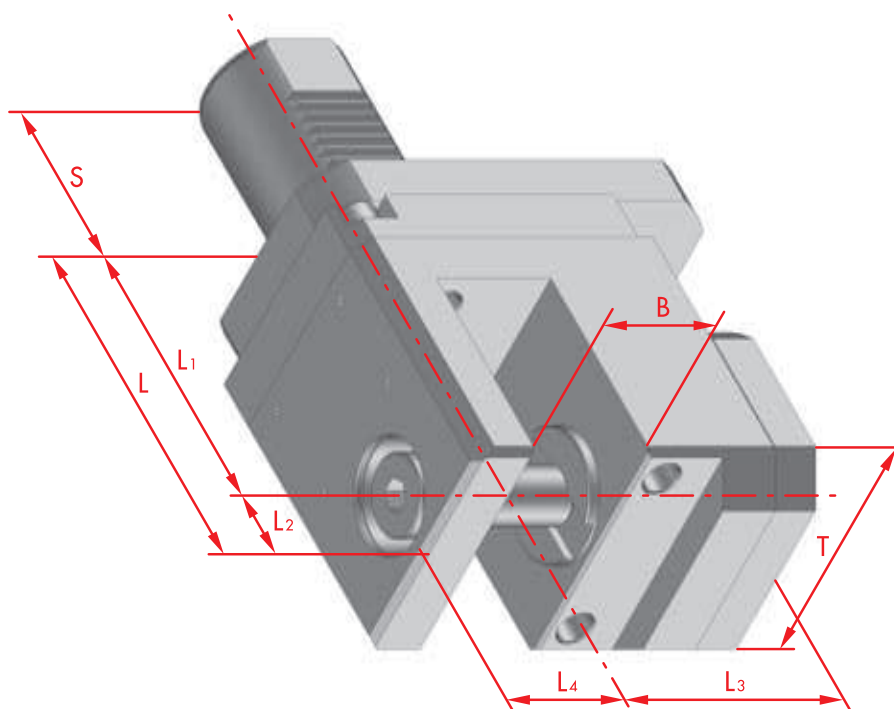
 Shank
 Drive
 SW

 VDI 40
 Tang
 10 mm


Order No.	Tool holder	Clamping range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	X mm	L mm	A mm	B mm	S mm	T mm	MAZAK Ref. #
124114	ER 25	0,5-16	25 Nm	6.500 / 6.500	i = 1:1	external	55	100	50	134	60	68	
169223	mi 40		25 Nm	6.500 / 6.500	i = 1:1	external	-	121	50	134	60	68	

Saw Blade Holder

for Manufacturer	
Mazak	
for Machine type	
MULTIPLEX 610/6100/6200 HYPER QUADREX MSY 150	
MP 610 - 12x 6100 - 16x 6200 - 16x	HQ MSY 150 - 12x
Dimensions	
Turret type	Star-type Turret
Shank	VDI 40
Drive	Tang
SW	10 mm



Order No.	Fitting dia. mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	L mm	L1 mm	L2 mm	L3 mm	L4 mm	B mm	S mm	T mm	MAZAK Ref. #
125101	22	20 Nm	6.500 / 2.450	i = 2,66:1	external	115	85	30	77,5	36	25	60	72	

Picture shows a mimatic® 90° angle driven toolholder for Mazak VDI 40 with modular quick change system „mi” and internal ER 32 clamping jaws. The mimatic® mi interface is a very innovative modular quick change system to reduce machine downtimes because all units can be preset outside the machine.



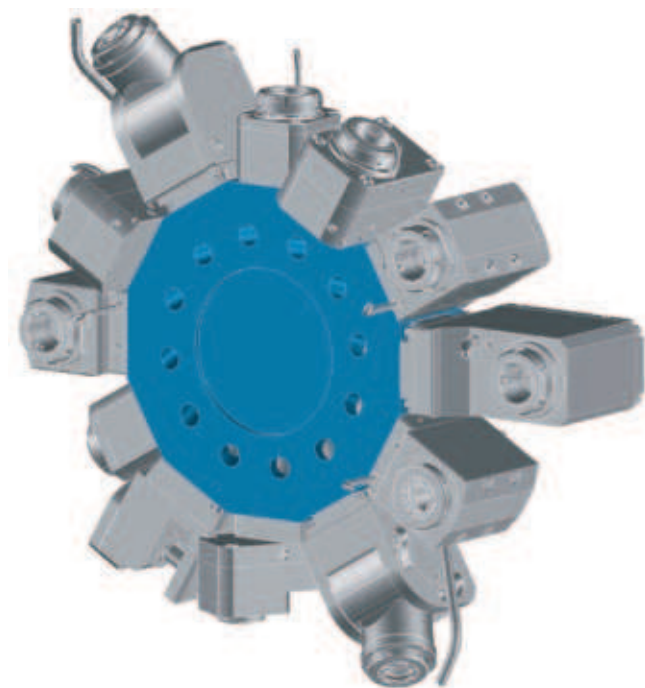
Mazak MULTIPLEX 620/6200 + HYPER QUADREX MSY 200

Data

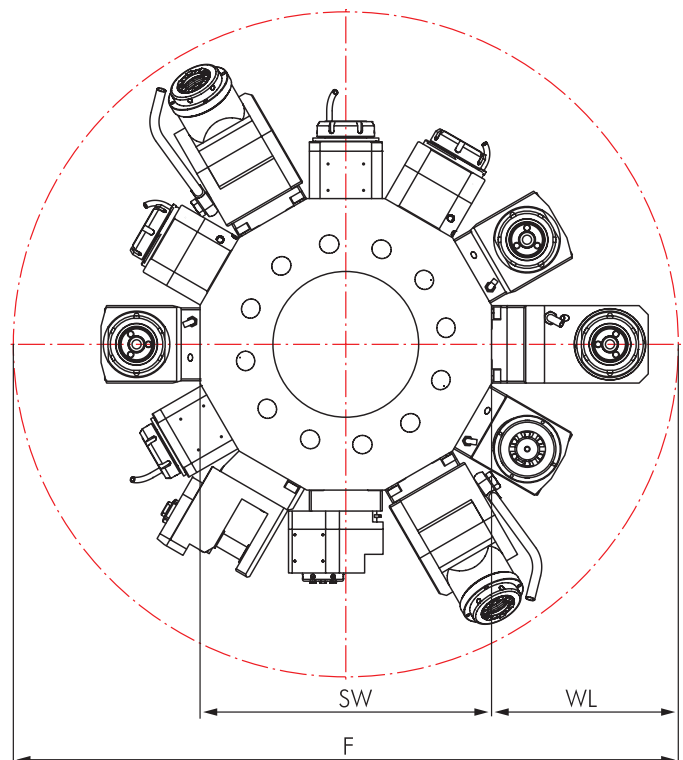
Machine type Series		Turret Stations
MP 620		12
MP 6200/6200	Y	12/16
HQ 200	MSY	12



Star-type Turret VDI 40



Interference Circles



Machine type Series	F	SW	WL
Multiplex 620 / 6200	680	320	180

Mazak MULTIPLEX 620/6200 + HYPER QUADREX MSY 200

Driven Toolholders

	Page		Page
Straight Unit, Offset type	144		
		Angle Unit, adjustable 0-100°	146
			
Angle Unit	145		
		Y-Unit, adjustable ± 90°	147
			
		Saw Blade Holder	148
			

Options and Accessories

mi Toolholders		mi System Description Toolholders Accessories	283 287-291 290-292
Static Toolholders for MAZAK		Static Toolholders Accessories	297-301 302-303
Accessories		Collets DIN 6499 Threading Collets Wrenches Clamping Nuts Sleeves and Bushings	317 317 317 317 318

Straight Unit, Offset type

for Manufacturer

Mazak

for Machine type

MULTIPLEX 620/6200
HYPER QUADREX MSY 200
MP

 620 - 12x
 6200 - 12x

HQ

200 - 12x

Dimensions

Turret type

Star-type Turret

Shank

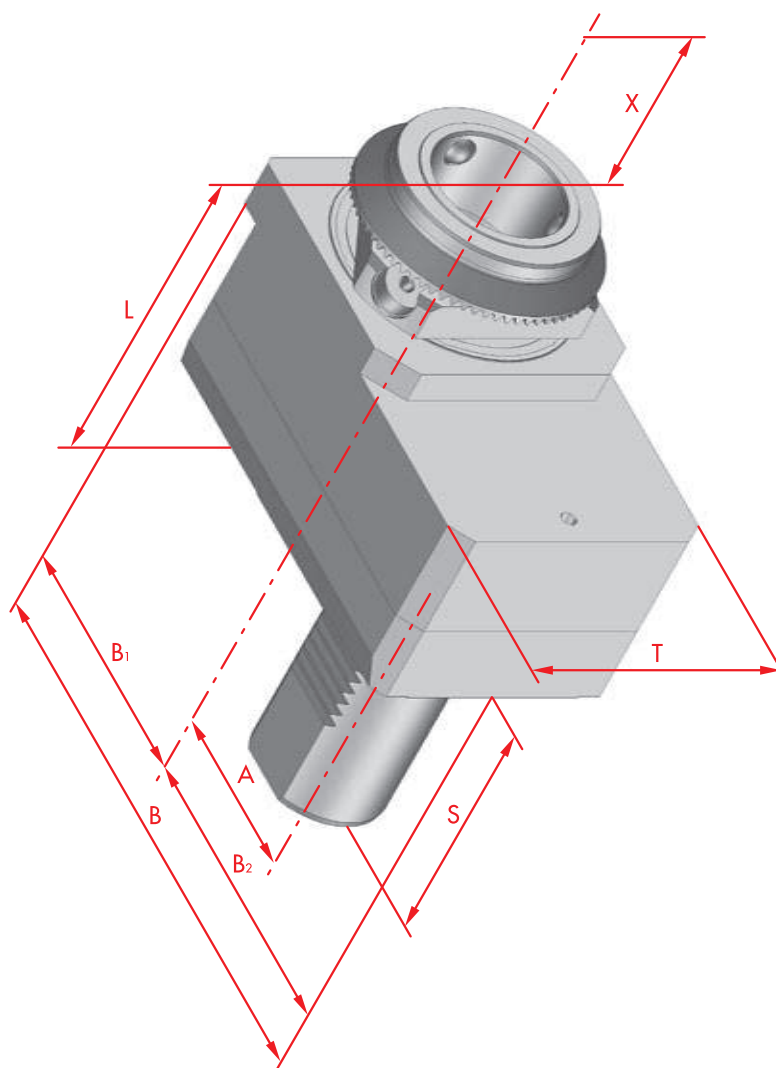
VDI 40

Drive

Tang

SW

10 mm



Order No.	Tool holder	Clamping range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	X mm	L mm	A mm	B mm	B1 mm	B2 mm	S mm	T mm	MAZAK Ref. #
124021	ER 32	1,0-20	50 Nm	6.500 / 6.500	i = 1:1	external	90	90	50	132	90	42	70	80	
124255	ER 32	1,0-20	50 Nm	6.500 / 6.500	i = 1:1	internal	90	90	50	132	90	42	70	80	
124065	ER 25	0,5-16	25 Nm	6.500 / 13.000	i = 1:2	external	108,5	71,5	50	118	84	34	70	68	
124343	ER 25	0,5-16	25 Nm	6.500 / 13.000	i = 1:2	internal	90	90	50	132	90	42	70	80	
124014	mi 50		50 Nm	6.500 / 6.500	i = 1:1	external	90	97	50	132	90	42	70	80	
123684	mi 50		50 Nm	6.500 / 6.500	i = 1:1	internal	90	97	50	132	90	42	70	80	

Angle Unit

for Manufacturer

Mazak

for Machine type

MULTIPLEX 620/6200
HYPER QUADREX MSY 200
MP

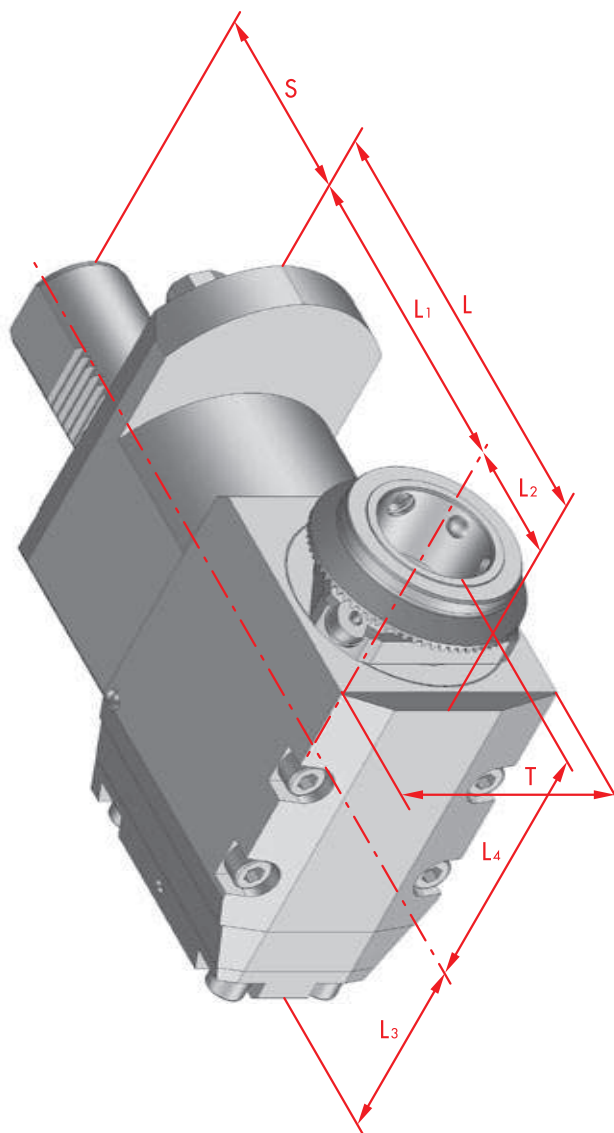
 620 - 12x
 6200 - 12x

HQ

200 - 12x

Dimensions

 Turret type
 Shank
 Drive
 SW

 Star-type Turret
 VDI 40
 Tang
 10 mm


Order No.	Tool holder	Clamping range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	L mm	L1 mm	L2 mm	L3 mm	L4 mm	S mm	T mm	MAZAK Ref. #
124619	ER 32	1,0-20	50 Nm	6.500 / 6.500	i = 1:1	external	169	130	39	69	70	70	85	
124864	ER 32	1,0-20	50 Nm	6.500 / 6.500	i = 1:1	internal	173	130	43	71	70	70	80	
124690	ER 25	0,5-16	25 Nm	6.500 / 13.000	i = 1:2	external	164	130	34	40	78	70	80	
124623	mi 50		50 Nm	6.500 / 6.500	i = 1:1	external	173	130	43	71	88	70	80	
124866	mi 50		50 Nm	6.500 / 6.500	i = 1:1	internal	173	130	43	71	88	70	80	
169446	HF 20		50 Nm	6.500 / 6.500	i = 1:1	internal	169	130	39	71	83,5	70	80	
124916	ER 32	1,0-20	25 Nm	6.500 / 13.000	i = 1:2	internal	169	130	39	72,5	91	70	80	

Angle Unit, adjustable 0-100°

for Manufacturer

Mazak

for Machine type

MULTIPLEX 620/6200
HYPER QUADREX MSY 200
MP

 620 - 12x
 6200 - 12x

HQ

200 - 12x

Dimensions

Turret type

Star-type Turret

Shank

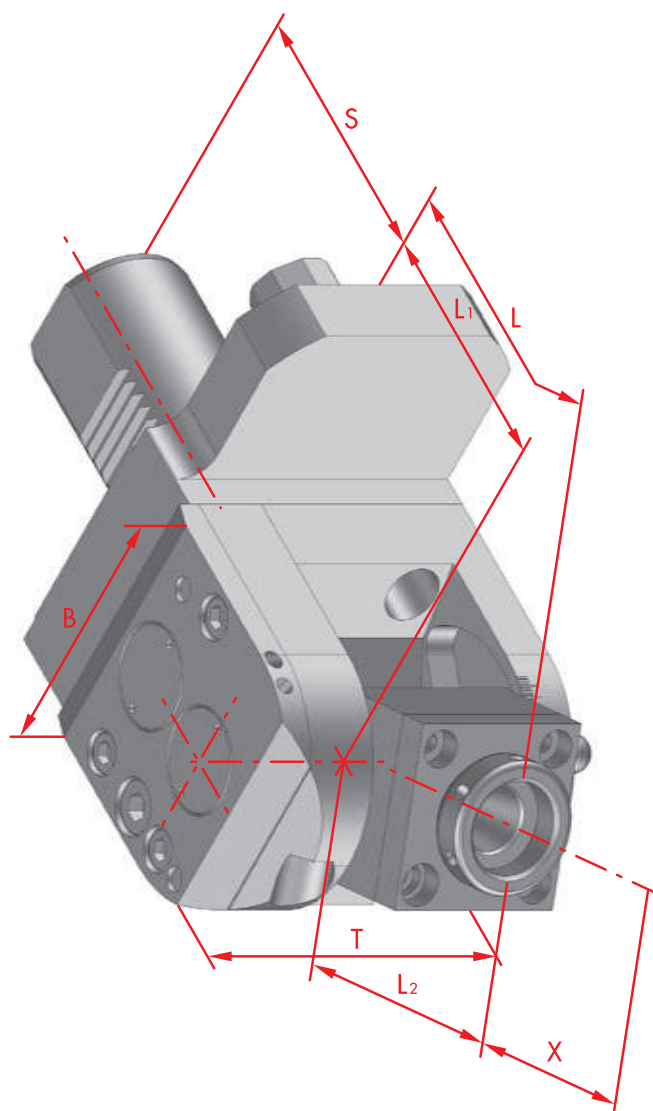
VDI 40

Drive

Tang

SW

10 mm



Order No.	Tool holder	Clamping range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	X mm	L mm	L1 mm	L2 mm	B mm	S mm	T mm	MAZAK Ref. #
125025	ER 16	0,5-10	6 Nm	6.500 / 6.500	i = 1:1	external	45,5	134,5	73,5	61	114	70	80,5	
125053	ER 16	0,5-10	6 Nm	3.750 / 15.000	i = 1:4	external	45,5	134,5	73,5	61	114	70	80,5	

Y-Unit, adjustable $\pm 90^\circ$

for Manufacturer

Mazak

for Machine type

MULTIPLEX 620/6200
HYPER QUADREX MSY 200

MP

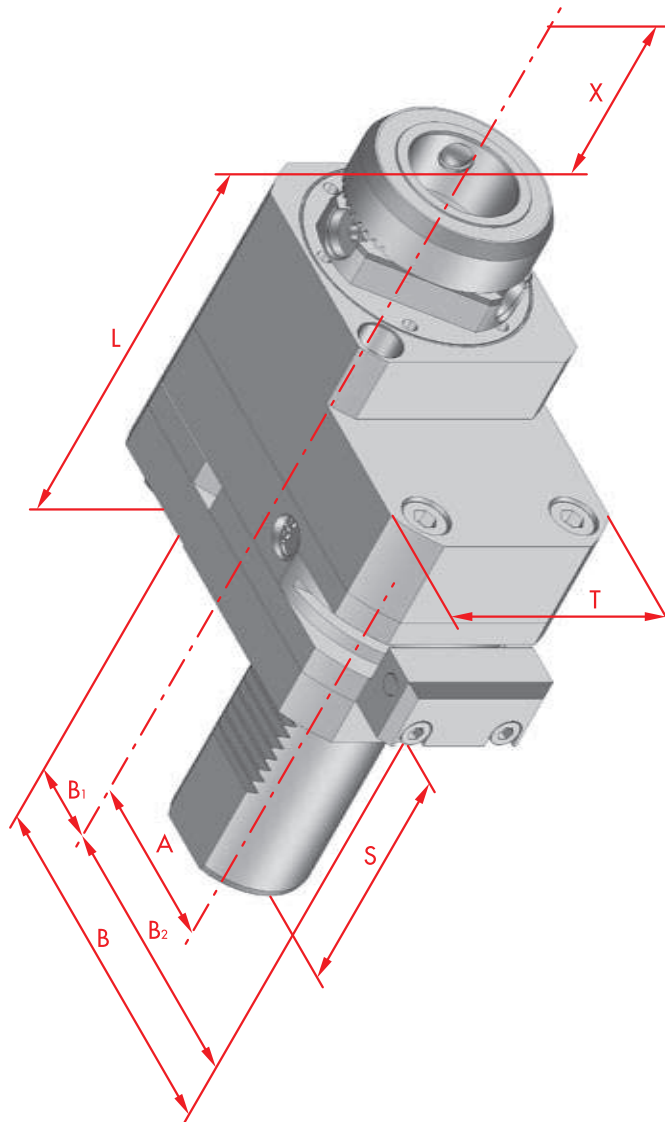
620 - 12x
6200 - 12x

HQ

200 - 12x

Dimensions

Turret type	Star-type Turret
Type	$\pm 90^\circ$ continuous adjustable
Shank	VDI 40
Drive	Tang
SW	10 mm

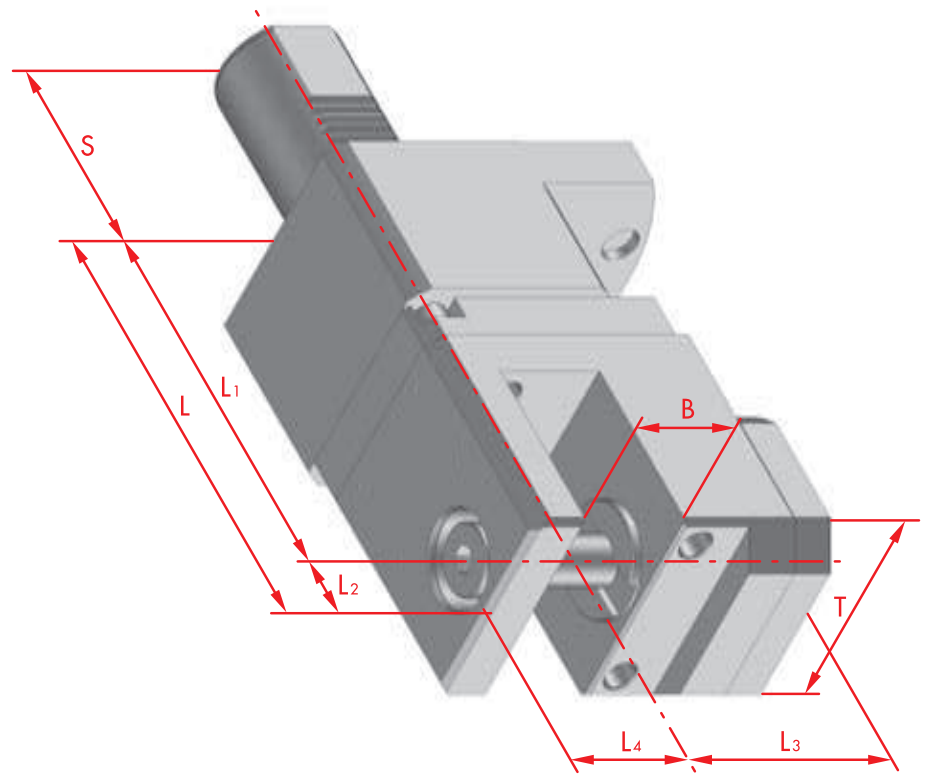


Order No.	Tool holder	Clamping range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	X mm	L mm	A mm	B mm	S mm	T mm	MAZAK Ref. #
124116	ER 25	0,5-16	25 Nm	6.500 / 6.500	i = 1:1	external	80	100	50	118	70	68	
169231	mi 40		25 Nm	6.500 / 6.500	i = 1:1	external	-	121	50	118	70	68	



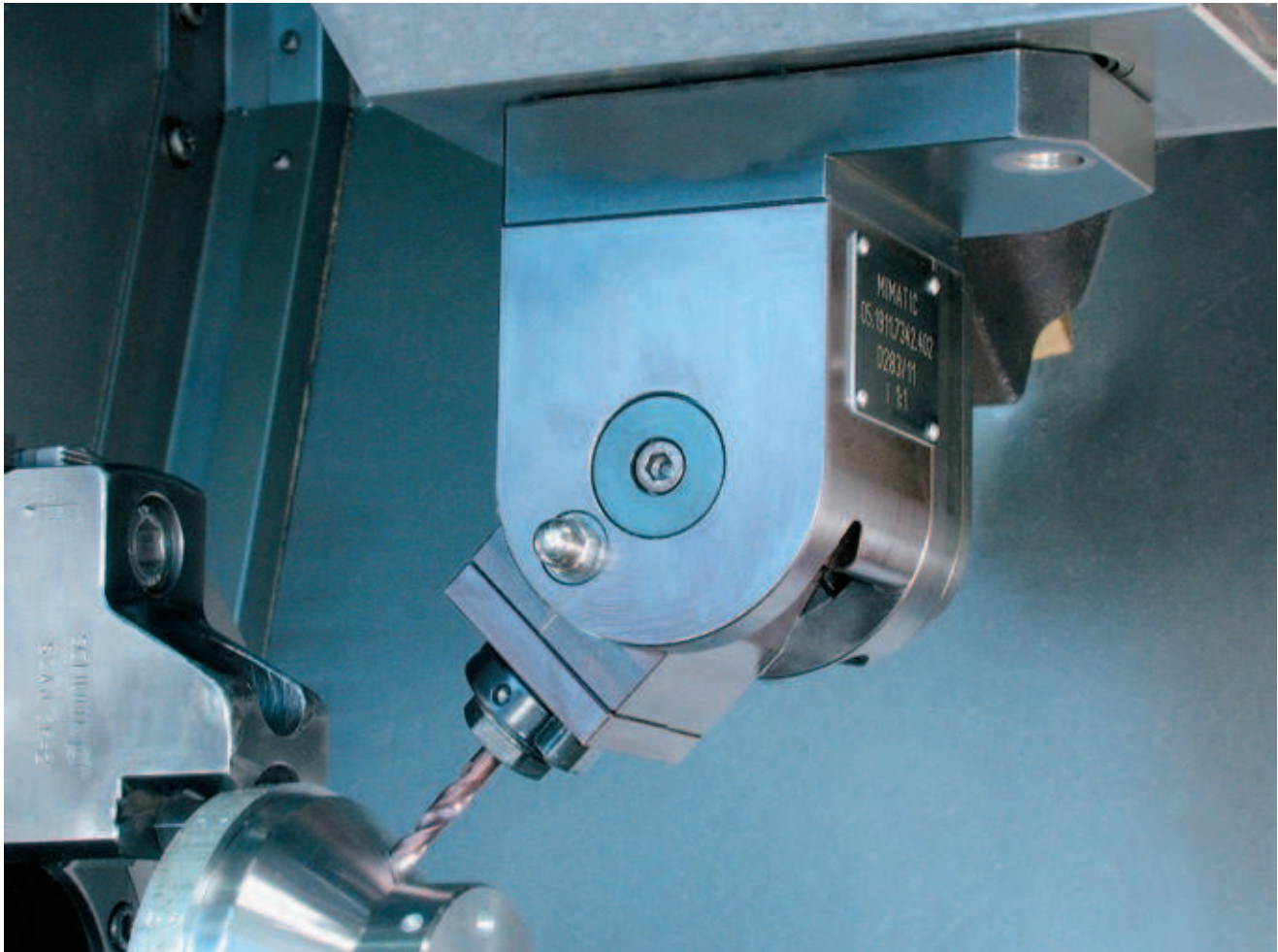
Saw Blade Holder

for Manufacturer	
Mazak	
for Machine type	
MULTIPLEX 620/6200 HYPER QUADREX MSY 200	
MP 620 - 12x 6200 - 12x	HQ 200 - 12x
Dimensions	
Turret type	Star-type Turret
Shank	VDI 40
Drive	Tang
SW	10 mm



Order No.	Fitting dia. mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	L mm	L1 mm	L2 mm	L3 mm	L4 mm	B mm	S mm	T mm	MAZAK Ref. #
125103	22	20 Nm	6.500 / 2.450	i = 2,66:1	external	160	130	30	77,5	36	25	70	80	
101820	22	40 Nm	6.500 / 2.450	i = 2,66:1	external	170	140	30	87,5	36	25	70	80	

Picture shows an adjustable angle head (90°) on a Mazak SQT 18 MS drilling holes on 45°.



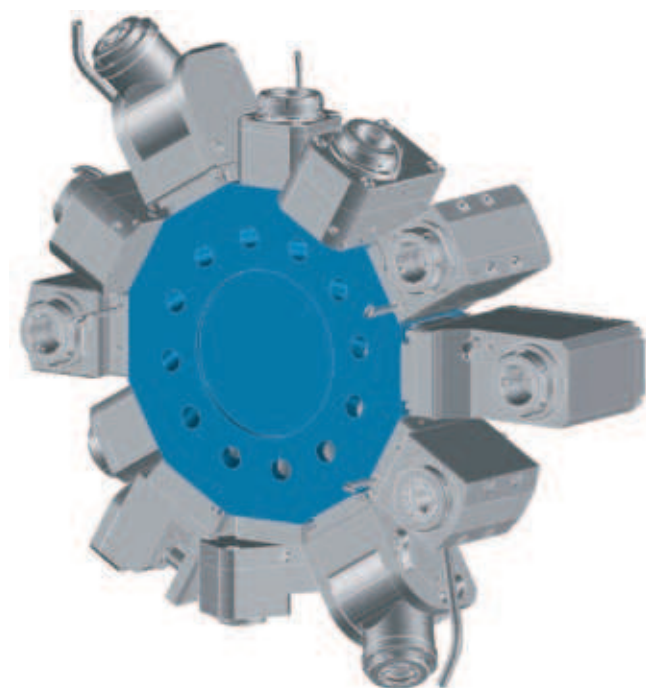
Mazak MULTIPLEX 630 / 6300

Data

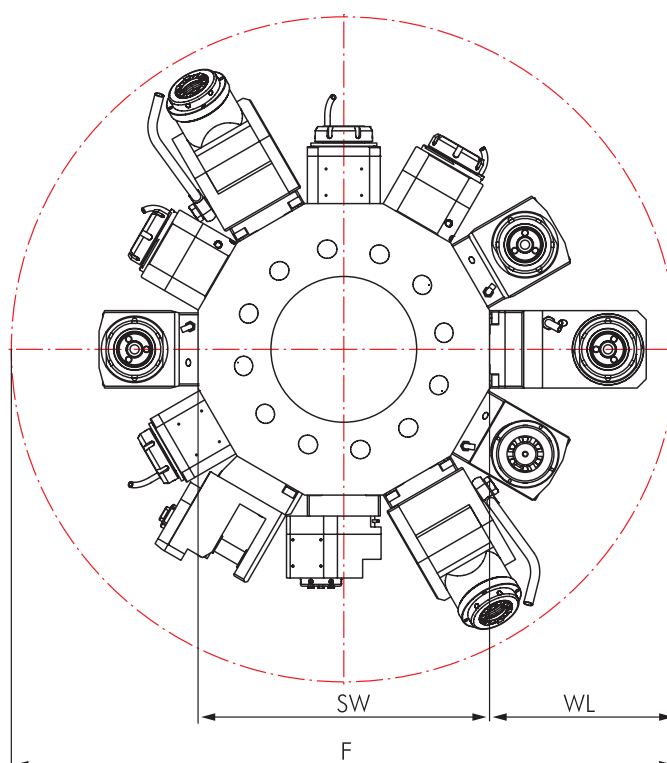
Machine type Series	Turret Stations
MP 630	12
MP 6300/6300 Y	12



Star-type Turret VDI 50



Interference Circles



Machine type Series	F	SW	WL
Multiplex 630 / 6300	840	380	230

Driven Toolholders

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Straight Unit, Offset type		Angle Unit	
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Options and Accessories

mi Toolholders		mi System Description Toolholders Accessories	283 287-291 290-292
Static Toolholders for MAZAK		Static Toolholders Accessories	297-301 302-303
Accessories		Collets DIN 6499 Threading Collets Wrenches Clamping Nuts Sleeves and Bushings	317 317 317 317 318



Straight Unit, Offset type

for Manufacturer

Mazak

for Machine type

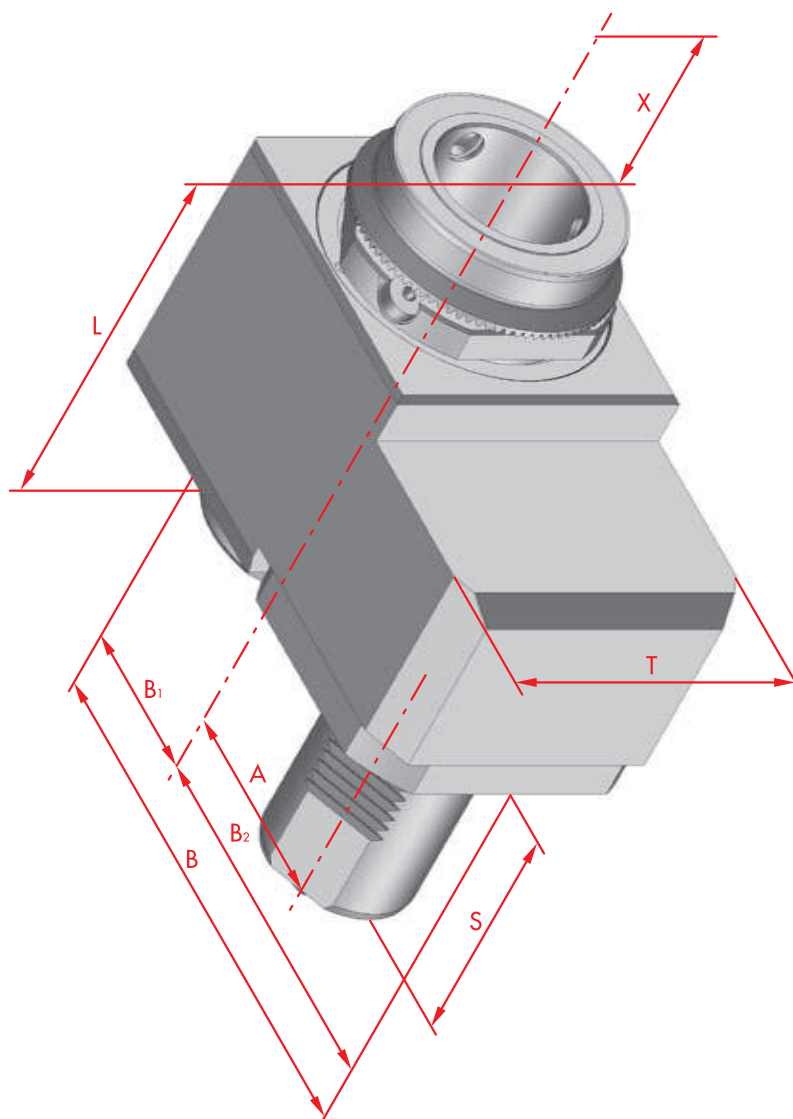
MULTIPLEX 630 / 6300
MP

630 - 12x

6300 - 12x

Dimensions

Turret type	Star-type Turret
Shank	VDI 50
Drive	Tang
SW	12 mm



Order No.	Tool holder	Clamping range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	X mm	L mm	A mm	B mm	B1 mm	B2 mm	S mm	T mm	MAZAK Ref. #
131556	ER 40	2,0-26	100 Nm	6.500 / 6.500	i = 1:1	internal	107,5	122,5	76	186	131	55	75	100	
100245	mi 63		100 Nm	6.500 / 6.500	i = 1:1	internal	-	126	76	179	124	55	75	100	
102793	SK 40		50 Nm	5.400 / 5.400	i = 1:1	external	131	99	76	185	126	59	75	96	

Angle Unit

for Manufacturer

Mazak

for Machine type

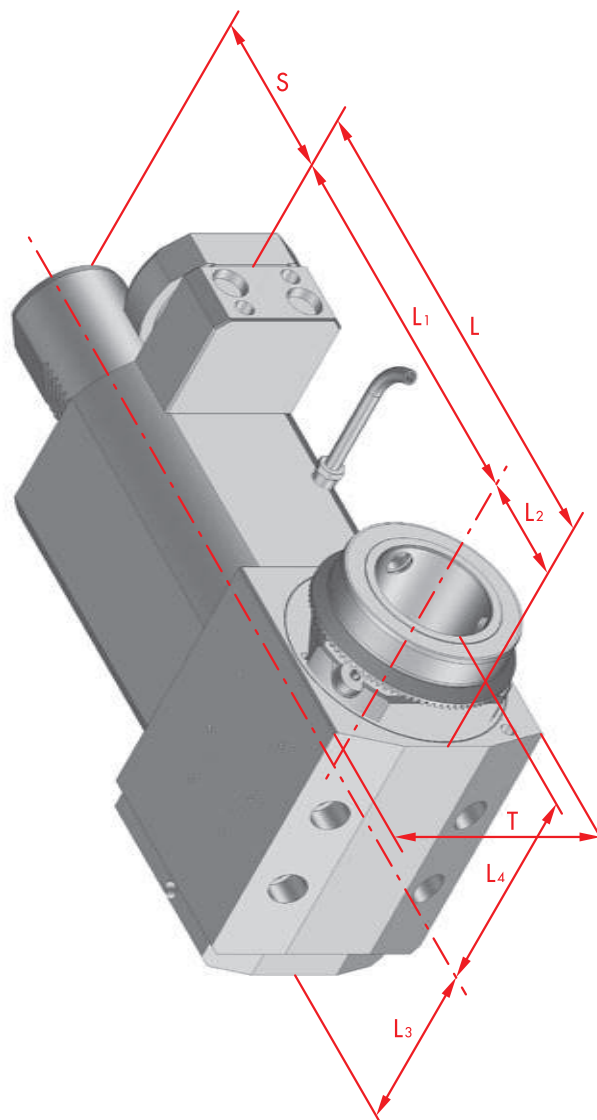
MULTIPLEX 630 / 6300

MP

630 - 12x
6300 - 12x

Dimensions

Turret type	Star-type Turret
Shank	VDI 50
Drive	Tang
SW	12 mm



Order No.	Tool holder	Clamping range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	L mm	L1 mm	L2 mm	L3 mm	L4 mm	S mm	T mm	MAZAK Ref. #
131597	ER 40	2,0-26	80 Nm	5.200 / 5.200	i = 1:1	internal	215	175	40	75,5	97	75	96	
101513	mi 63		80 Nm	6.500 / 6.500	i = 1:1	internal	224	175	49	73,5	97	75	98	
124626	SK 40		50 Nm	6.500 / 6.500	i = 1:1	external	210	160	50	85	81	75	96	

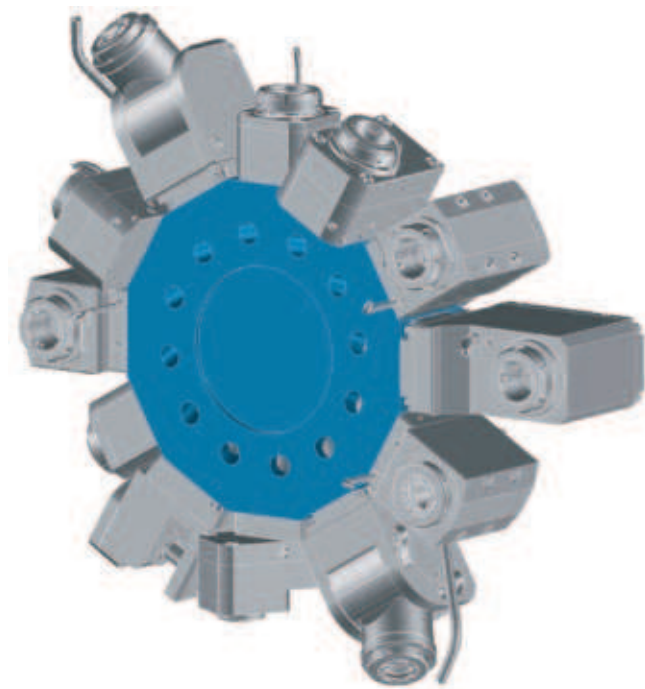
Mazak CYBERTECH TURN 4500 / 5500

Data

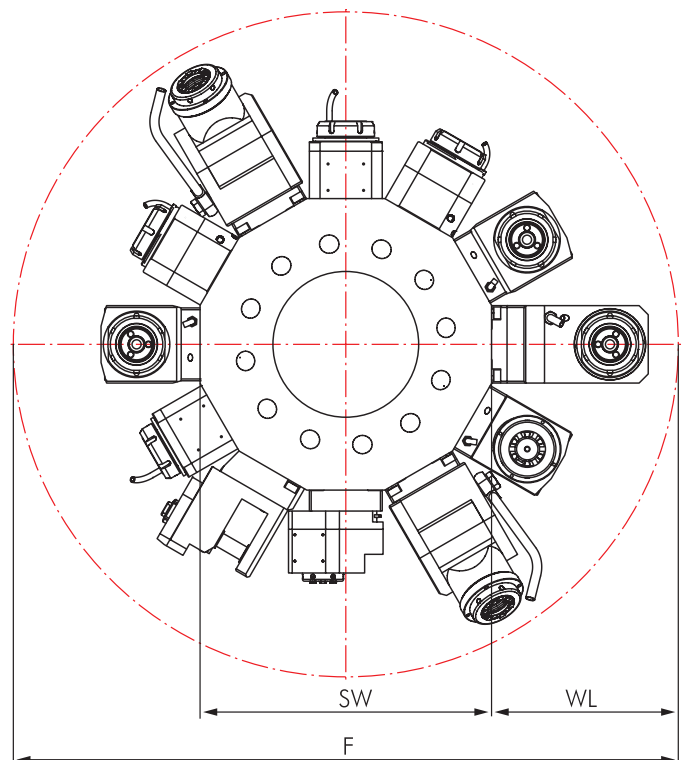


Machine type Series		Turret Stations
CT 4500	M / MT	12
CT 5500	M / MT	12

Star-type Turret „BMT“



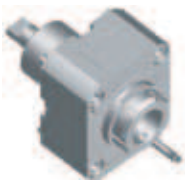
Interference Circles



Machine type Series	F	SW	WL
CT 4500	860	360	250
CT 5500			

Mazak CYBERTECH TURN 4500 / 5500

Driven Toolholders

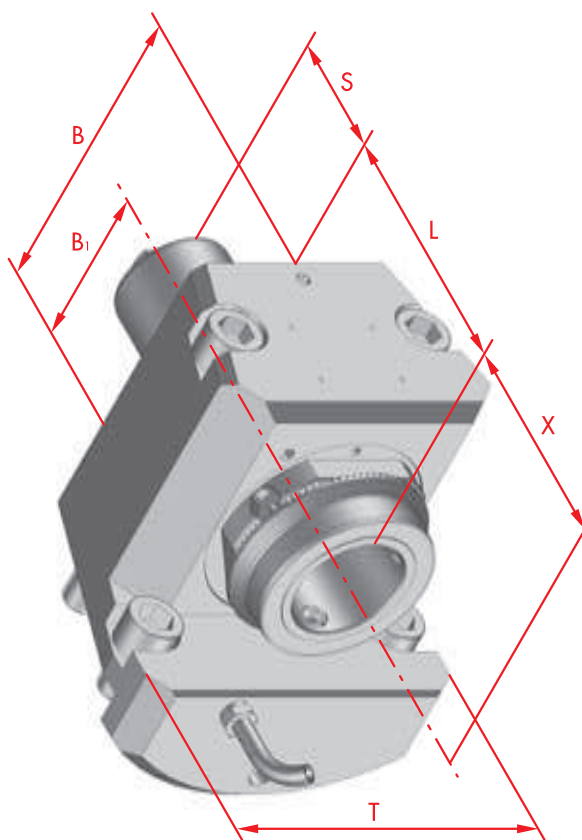
	Page		Page
Straight Unit		Angle Unit	
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Options and Accessories

mi Toolholders		mi System Description Toolholders Accessories	283 287-291 290-292
Static Toolholders for MAZAK		Static Toolholders Accessories	297-301 302-303
Accessories		Collets DIN 6499 Threading Collets Wrenches Clamping Nuts Sleeves and Bushings	317 317 317 317 318

Straight Unit

for Manufacturer	
Mazak	
for Machine type	
CYBERTECH TURN 4500 / 5500 - M / MT	
CT 4500 M/MT - 12x 5500 M/MT - 12x	
Dimensions	
Turret type	Star-type Turret
Shank	BMT Ø 50 mm
Drive	Tang
SW	13,95 mm



Order No.	Tool holder	Clamping range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	X mm	L mm	B mm	B1 mm	S mm	T mm	MAZAK Ref. #
124261	mi 63	-	150 Nm	3.000 / 3.000	i = 1:1	internal	136	116,5	132,5	68	54,23	146	

Angle Unit

for Manufacturer

Mazak

for Machine type

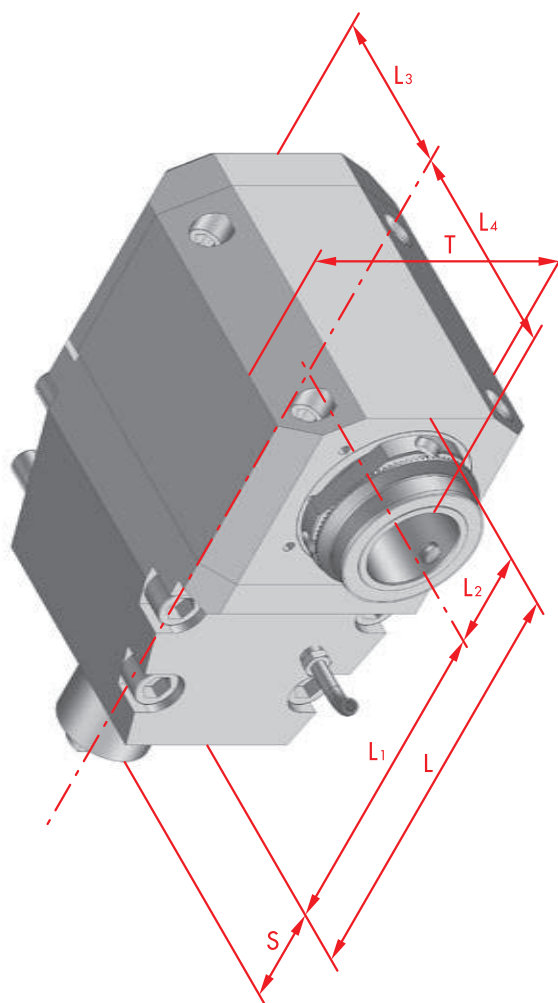
CYBERTECH TURN
4500 / 5500 - M / MT

CT

4500 M/MT - 12x
5500 M/MT - 12x

Dimensions

Turret type	Star-type Turret
Shank	BMT Ø 50 mm
Drive	Tang
SW	13,95 mm



Order No.	Tool holder	Clamping range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	L mm	L1 mm	L2 mm	L3 mm	L4 mm	S mm	T mm	MAZAK Ref. #
124881	mi 63	-	150 Nm	3.000 / 3.000	i = 1:1	internal	149	94	55	94,5	124	54	146	-

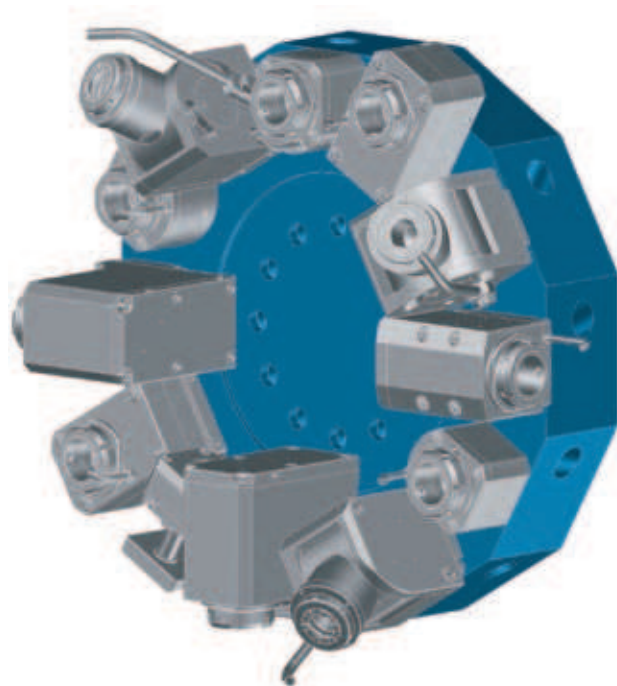
LOKUMA LB / LU 200 - M + ECO - M

Data

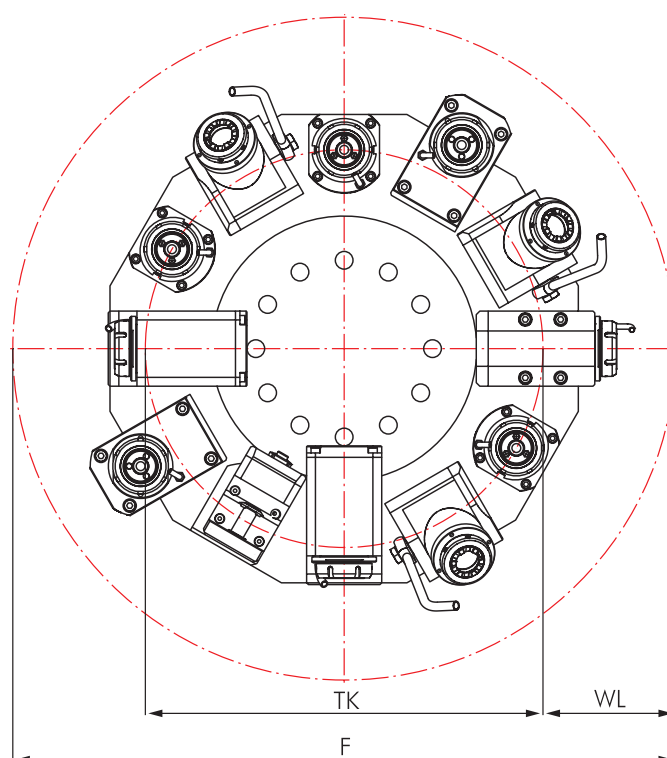
Machine type Series		Turret Stations
LB 200	M	12
ECO ES-L8II	M	12



Disc-type Turret VDI 30



Interference Circles



Machine type Series	F	TK	WL
LB/LU200+ECO	590	310	115

Driven Toolholders

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Straight Unit		Angle Unit	
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Options and Accessories

mi Toolholders		mi System Description Toolholders Accessories	283 287-291 290-292
Standard VDI Toolholders		VDI Toolholders Accessories	310-316 317-318
Accessories		Collets DIN 6499 Threading Collets Wrenches Clamping Nuts Sleeves and Bushings	317 317 317 317 318

Straight Unit

for Manufacturer

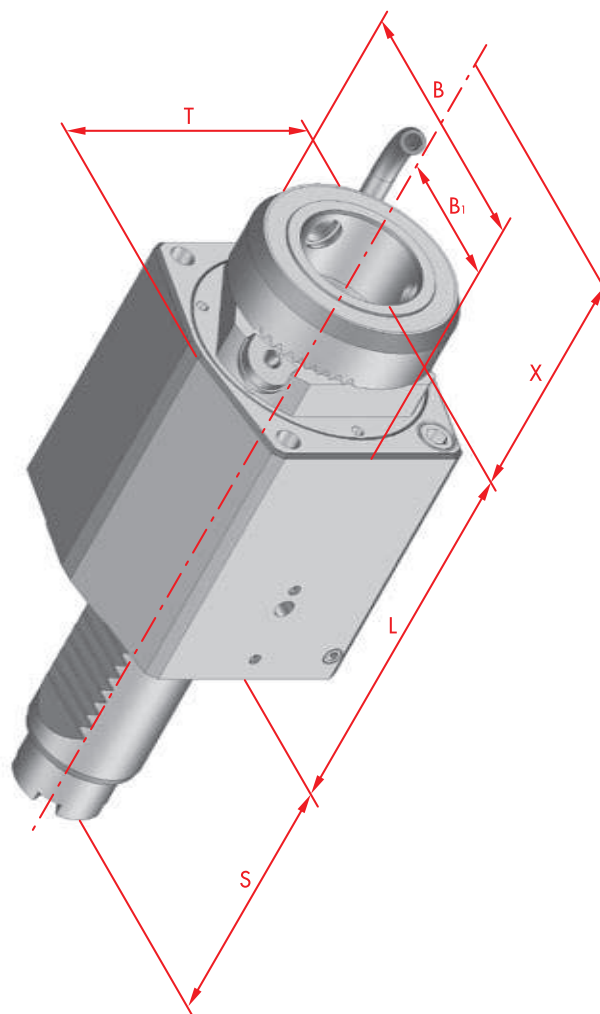
LOKUMA

for Machine type

LB 200-M
ECO ES-L8II-M

Dimensions

Revolver type	Disc-type Turret
Shank	VDI 30
Drive	single level
Graduation	30 / 60°



Order No.	Tool holder	Clamping range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	X mm	L mm	B mm	B1 mm	S mm	T mm
133715	ER 25	0,5-16	40 Nm	6.500 / 6.500	i = 1:1	external	-	81	70	35	69	70
133710	ER 25	0,5-16	40 Nm	6.500 / 6.500	i = 1:1	internal	-	81	70	35	69	70
133734	mi 40		40 Nm	6.500 / 6.500	i = 1:1	internal	-	92	71	35,5	69	65

Angle Unit

for Manufacturer

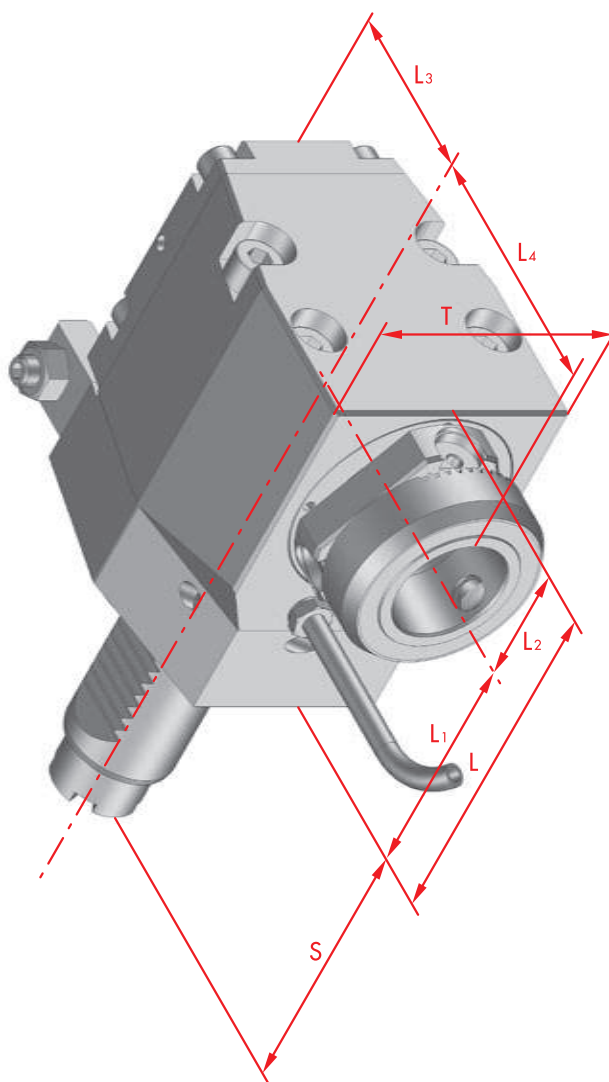
LOKUMA

for Machine type

LB 200-M
ECO ES-L8II-M

Dimensions

Revolver type	Disc-type Turret
Shank	VDI 30
Drive	single level
Graduation	30 / 60°
Note	no reversion of rotation (drive side direction = output side direction)



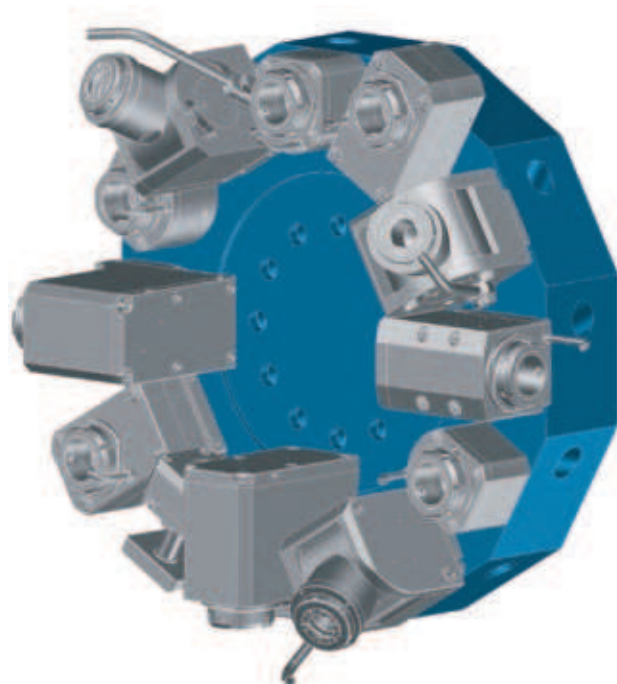
Order No.	Tool holder	Clamping range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	L mm	L1 mm	L2 mm	L3 mm	L4 mm	S mm	T mm
103496	ER 25	0,5-16	30 Nm	6.500 / 6.500	i = 1:1	external	104	70	34	60,5	58	69	76
103520	ER 25	0,5-16	30 Nm	6.500 / 6.500	i = 1:1	internal	104	70	34	60,5	58	69	76
103537	mi 40		30 Nm	6.500 / 6.500	i = 1:1	internal	102	70	32	51	73	69	70

Data

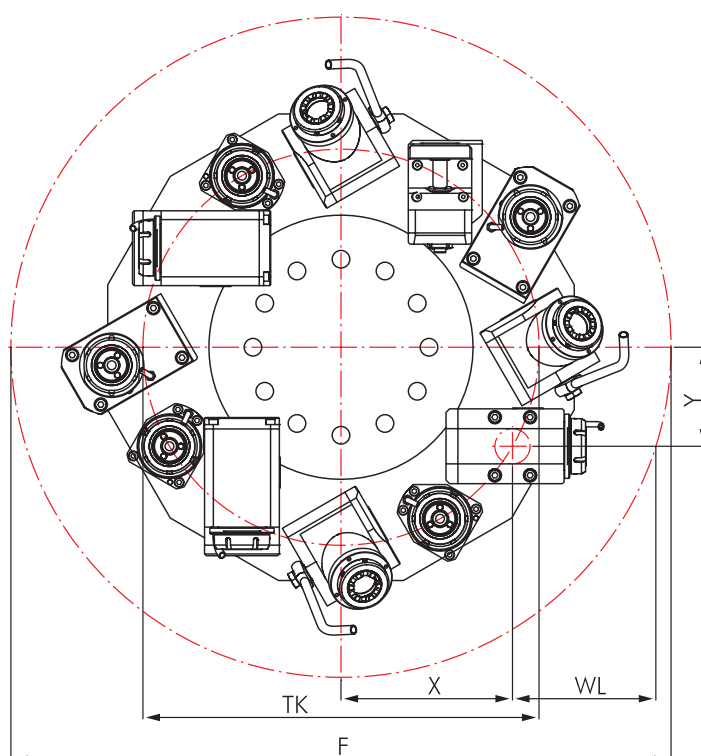
Machine type Series		Turret Stations
LB 300	M / MY	12
LU 300	M / MY	12



Disc-type Turret VDI 40



Interference Circles



Machine type Series	F	TK	X	Y	WL
LB/LU 300 M	690	386	185	55	155
LB/LU 300 MY	700	448	175	140	145

Driven Toolholders

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Straight Unit		Angle Unit	
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Options and Accessories

mi Toolholders		mi System Description Toolholders Accessories	283 287-291 290-292
Standard VDI Toolholders		VDI Toolholders Accessories	310-316 317-318
Accessories		Collets DIN 6499 Threading Collets Wrenches Clamping Nuts Sleeves and Bushings	317 317 317 317 318

Straight Unit

for Manufacturer

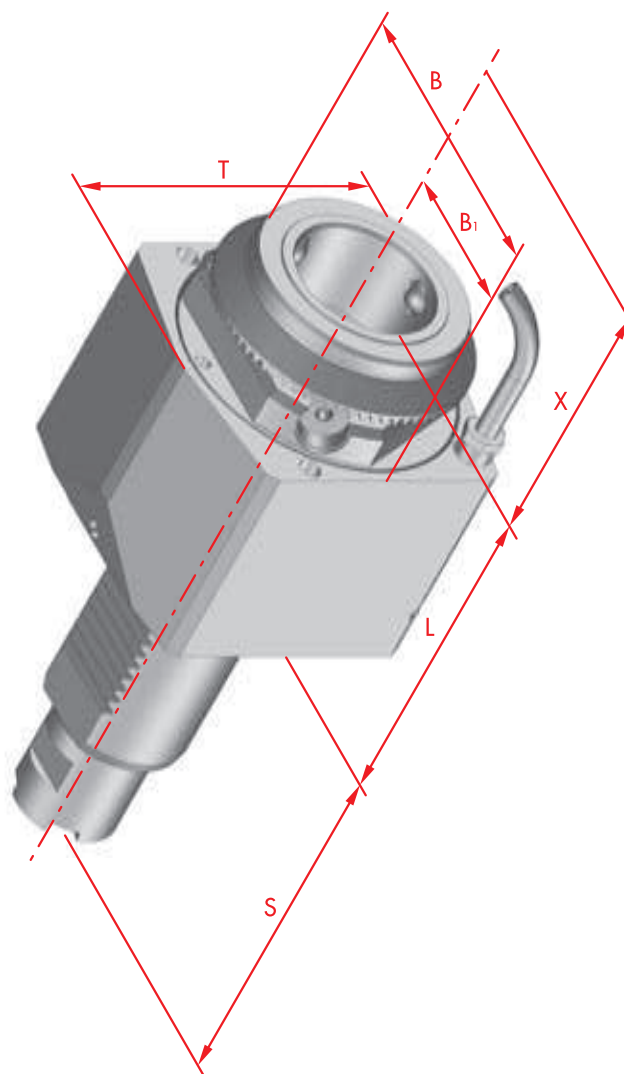
LOKUMA

for Machine type

LB 300 - M / MY
LU 300 - M / MY

Dimensions

Revolver type	Disc-type Turret
Shank	VDI 40
Drive	single level
Graduation	30 / 60°



Order No.	Tool holder	Clamping range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	X mm	L mm	B mm	B1 mm	S mm	T mm
103441	ER 32	1,0-20	80 Nm	6.500 / 6.500	i = 1:1	external	-	75,5	87	38	93	75
133711	ER 32	1,0-20	80 Nm	6.500 / 6.500	i = 1:1	internal	-	75,5	87	38	93	75
133712	mi 50		80 Nm	6.500 / 6.500	i = 1:1	internal	-	92,0	84	42	93	84

Angle Unit

for Manufacturer

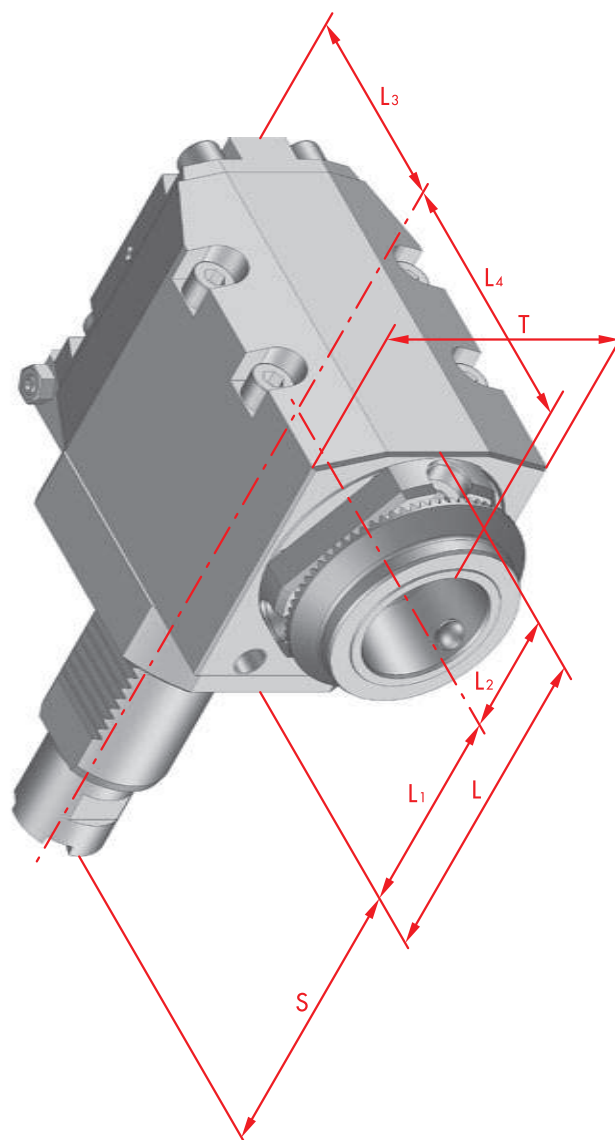
LOKUMA

for Machine type

LB 300 - M / MY
LU 300 - M / MY

Dimensions

Revolver type	Disc-type Turret
Shank	VDI 40
Drive	single level
Graduation	30 / 60°
Note	no reversion of rotation (drive side direction = output side direction)



Order No.	Tool holder	Clamping range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	L mm	L1 mm	L2 mm	L3 mm	L4 mm	S mm	T mm
103497	ER 32	1,0-20	50 Nm	6.500 / 6.500	i = 1:1	external	109	70	39	66	70	93	80
133716	ER 32	1,0-20	50 Nm	6.500 / 6.500	i = 1:1	internal	109	70	39	66	70	93	80
133705	mi 50		50 Nm	6.500 / 6.500	i = 1:1	internal	109	70	39	66	88	93	80

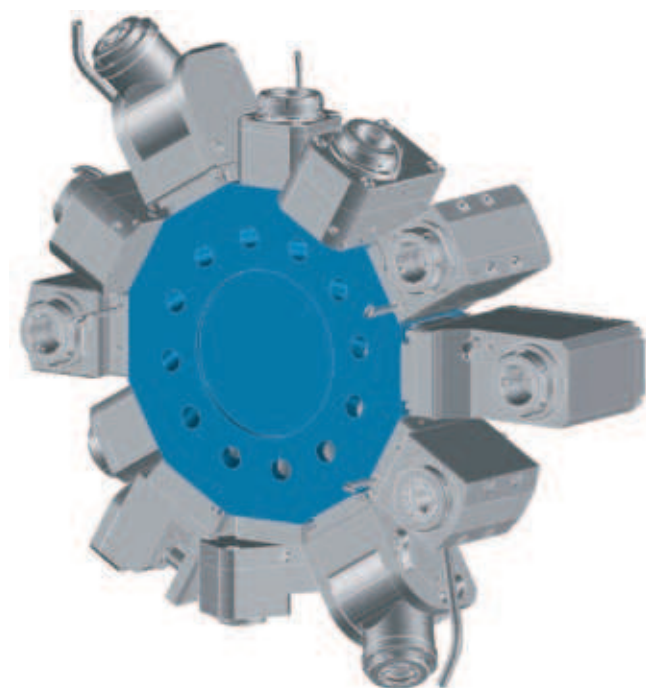
LOKUMA LB 300 - MW/MYW + LT 300 - M/MY

Data

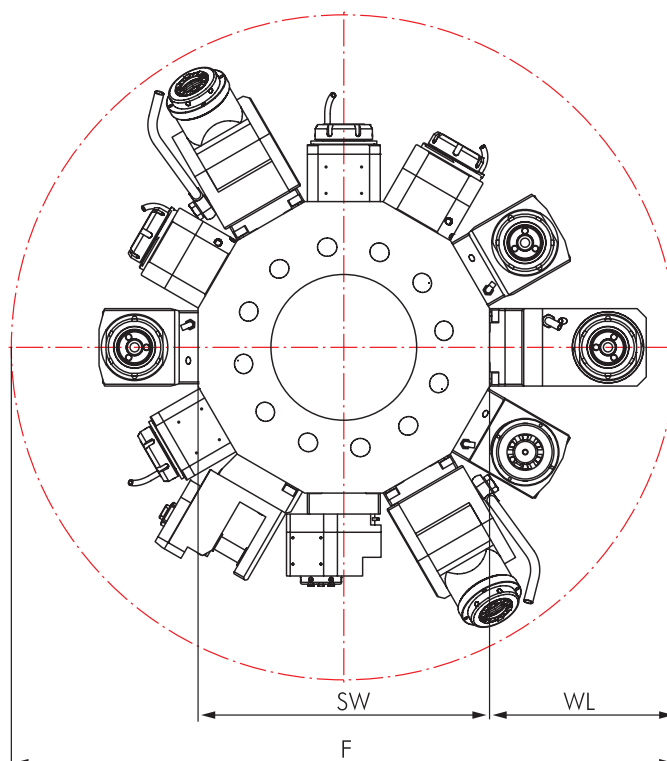
Machine type Series		Turret Stations
LB 300	MW / MYW	12
LT 300	M / MY	12



Star-type Turret VDI 40



Interference Circles



Machine type Series	F	SW	WL
LB 300 MW/MYW	610	340	135
LT 300 M/MY	650	380	135

Driven Toolholders

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Straight Unit		Angle Unit	
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Options and Accessories

mi Toolholders		mi System Description Toolholders Accessories	283 287-291 290-292
Standard VDI Toolholders		VDI Toolholders Accessories	310-316 317-318
Accessories		Collets DIN 6499 Threading Collets Wrenches Clamping Nuts Sleeves and Bushings	317 317 317 317 318

Straight Unit

for Manufacturer

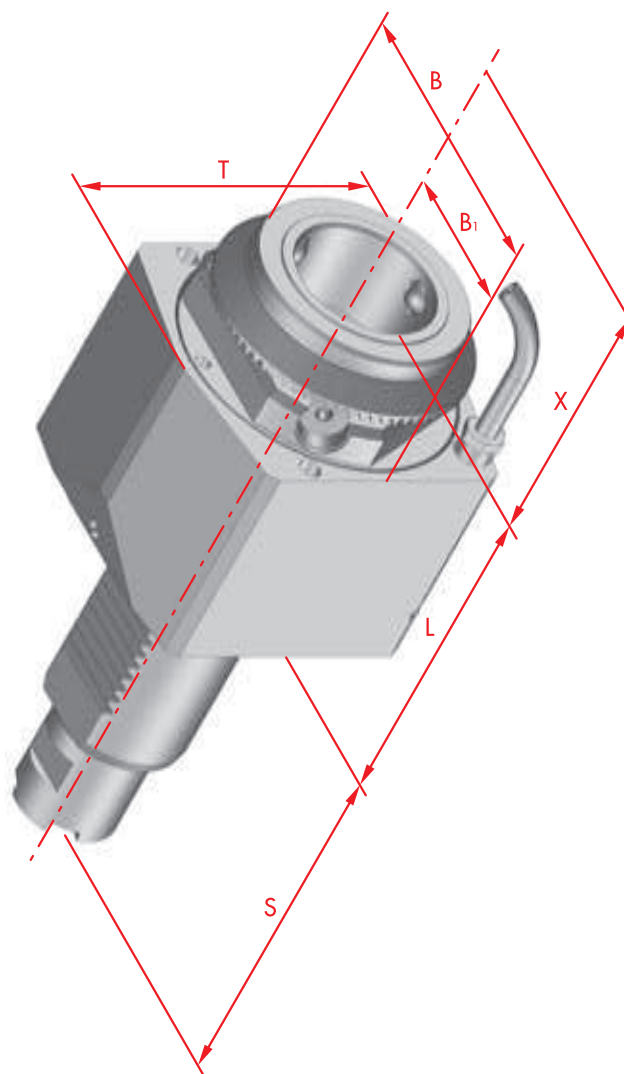


for Machine type

LB 300 - MW / MYW
LT 300 - M / MY

Dimensions

Revolver type	Star-type Turret
Shank	VDI 40
Drive	Layer gear; single level
Graduation	30 / 60°



Order No.	Tool holder	Clamping range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	X mm	L mm	B mm	B ₁ mm	S mm	T mm
103441	ER 32	1,0-20	80 Nm	6.500 / 6.500	i = 1:1	external	59,5	75,5	87	38	93	75
133711	ER 32	1,0-20	80 Nm	6.500 / 6.500	i = 1:1	internal	59,5	75,5	87	38	93	75
133712	mi 50		80 Nm	6.500 / 6.500	i = 1:1	internal	50,0	92,0	84	42	93	84
103644*	ER 25	0,5-16	20 Nm	6.500 / 13.000	i = 1:2	internal	-	90,0	140	50	93	80

Angle Unit, Left-hand Version for Main-Spindle

for Manufacturer

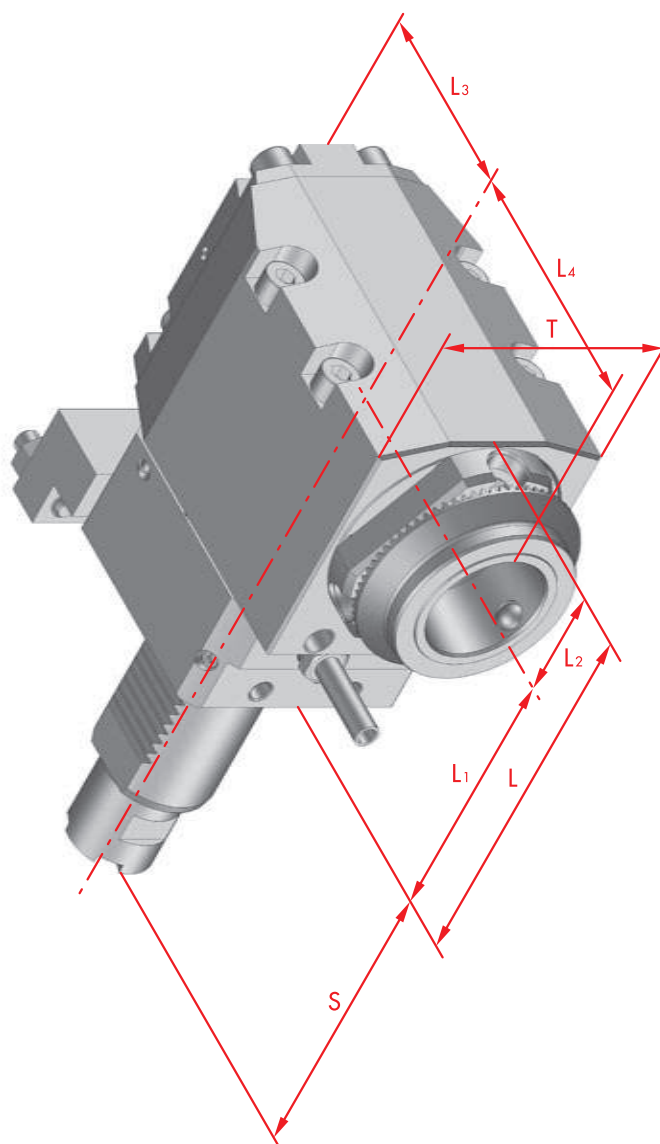
LOKUMA

for Machine type

LB 300 - MW / MYW
LT 300 - M / MY

Dimensions

Revolver type	Star-type Turret
Shank	VDI 40
Drive	Layer gear; single level
Graduation	30 / 60°
Note	no reversion of rotation (drive side direction = output side direction)



Order No.	Tool holder	Clamping range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	L mm	L1 mm	L2 mm	L3 mm	L4 mm	S mm	T mm
133704	ER 32	1,0-20	50 Nm	6.500 / 6.500	i = 1:1	external	129	90	39	66	70	93	80
103478	ER 32	1,0-20	50 Nm	6.500 / 6.500	i = 1:1	internal	129	90	39	66	70	93	80
103462	mi 50		50 Nm	6.500 / 6.500	i = 1:1	internal	129	90	39	66	88	93	80
133818*	mi 40		25 Nm	6.500 / 13.000	i = 1:2		129	90	39	72,5	97	93	85

* Reversion of rotation

Angle Unit, Right-hand Version for Sub-Spindle

for Manufacturer

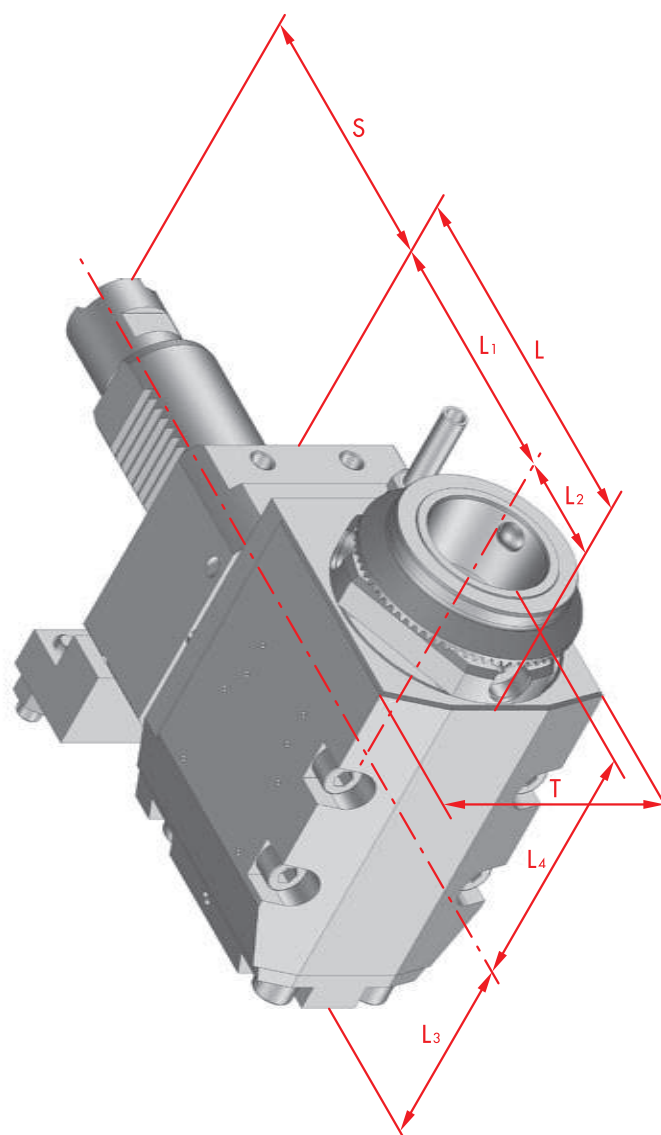
LOKUMA

for Machine type

LB 300 - MW / MYW
LT 300 - M / MY

Dimensions

Revolver type	Star-type Turret
Shank	VDI 40
Drive	Layer gear; single level
Graduation	30 / 60°
Note	no reversion of rotation (drive side direction = output side direction)



Order No.	Tool holder	Clamping range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	L mm	L1 mm	L2 mm	L3 mm	L4 mm	S mm	T mm
103471	ER 32	1,0-20	50 Nm	6.500 / 6.500	i = 1:1	external	129	90	39	66	70	93	80
124845	ER 32	1,0-20	50 Nm	6.500 / 6.500	i = 1:1	internal	129	90	39	66	70	93	80
103523	mi 50		50 Nm	6.500 / 6.500	i = 1:1	internal	129	90	39	66	88	93	80

Picture shows the mimatic® mi interface, a very innovative modular quick change system with one hand operation by Mimatic Tool Systems. It helps you to reduce machine downtimes because all units can be preset outside the machine.

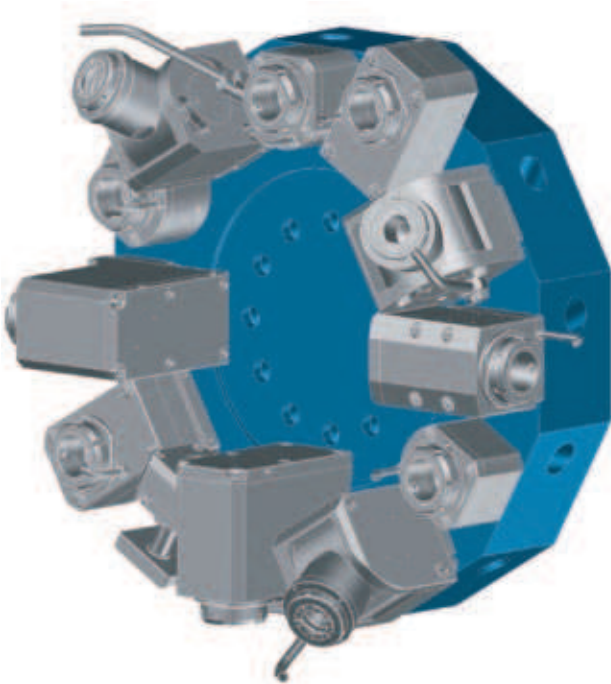


Data

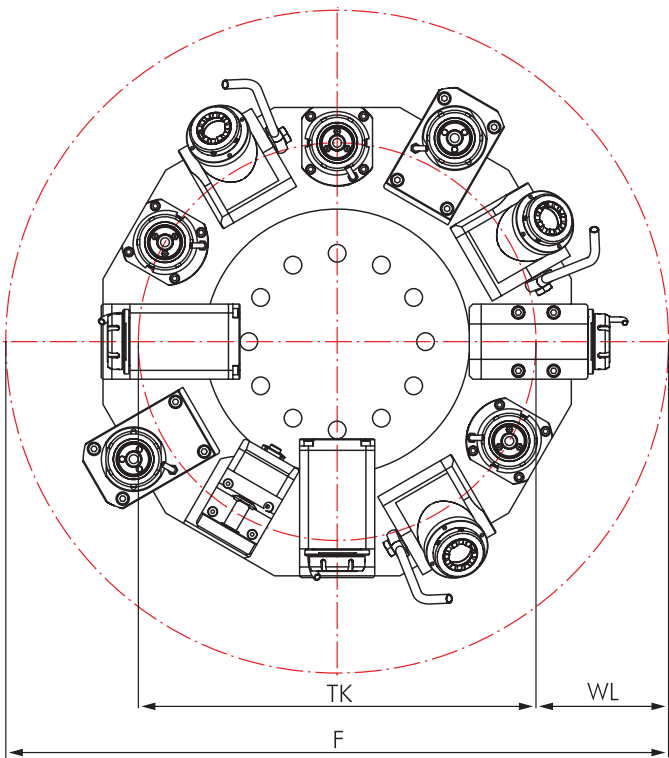
Machine type Series		Turret Stations
LVT 300	M	12



Disc-type Turret VDI 40



Interference Circles



Machine type Series	F	TK	WL
LVT 300	731	376	177

Driven Toolholders

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Options and Accessories

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Accessories		Collets DIN 6499 Threading Collets Wrenches Clamping Nuts Sleeves and Bushings	317 317 317 317 318

Straight Unit

for Manufacturer

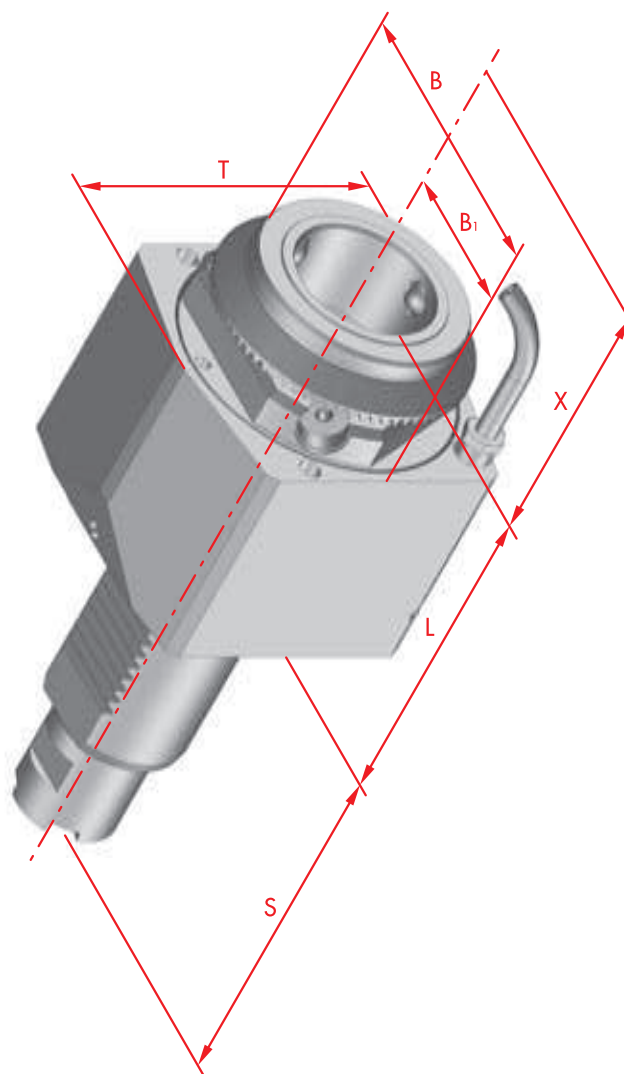
LOKUMA

for Machine type

LVT 300 - M

Dimensions

Revolver type	Disc-type Turret
Shank	VDI 40
Drive	Layer gear; single level
Graduation	30 / 60°



Order No.	Tool holder	Clamping range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	X mm	L mm	B mm	B ₁ mm	S mm	T mm
103441	ER 32	1,0-20	80 Nm	6.500 / 6.500	i = 1:1	external	-	75,5	87	38	93	75
133711	ER 32	1,0-20	80 Nm	6.500 / 6.500	i = 1:1	internal	-	75,5	87	38	93	75
133712	mi 50		80 Nm	6.500 / 6.500	i = 1:1	internal	-	92,0	84	42	93	84

Angle Unit

for Manufacturer

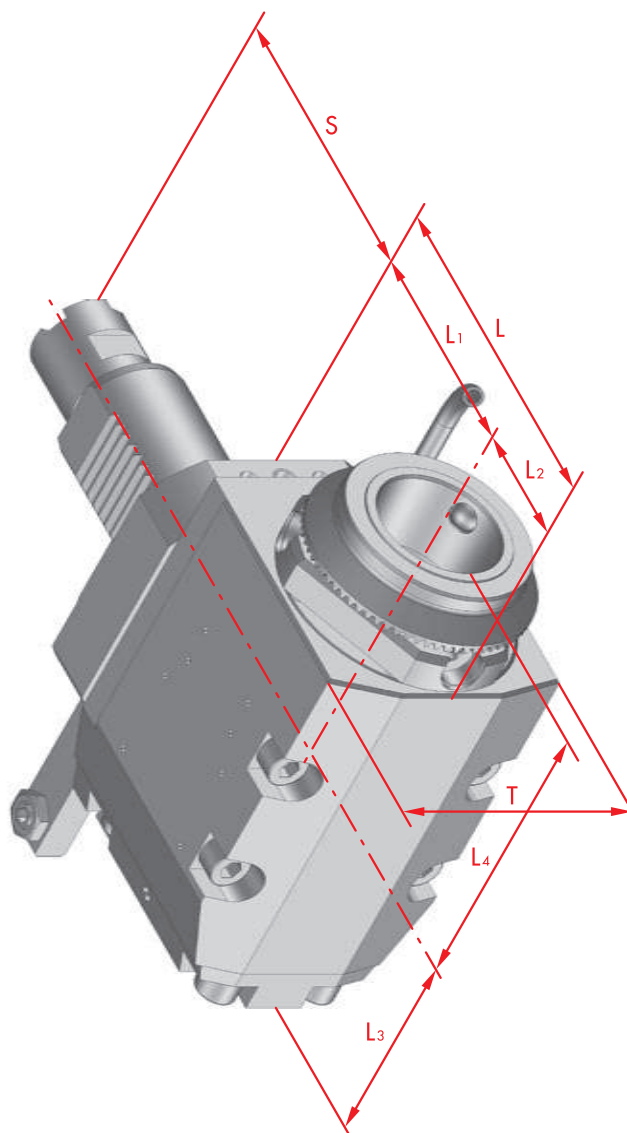
LOKUMA

for Machine type

LVT 300 - M

Dimensions

Revolver type	Disc-type Turret
Shank	VDI 40
Drive	Layer gear; single level
Graduation	30 / 60°
Note	no reversion of rotation (drive side direction = output side direction)



Order No.	Tool holder	Clamping range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	L mm	L1 mm	L2 mm	L3 mm	L4 mm	S mm	T mm
103528	ER 32	1,0-20	50 Nm	6.500 / 6.500	i = 1:1	external	109	70	39	66	70	93	80
133717	ER 32	1,0-20	50 Nm	6.500 / 6.500	i = 1:1	internal	109	70	39	66	70	93	80
103486	mi 50		50 Nm	6.500 / 6.500	i = 1:1	internal	109	70	39	66	88	93	80

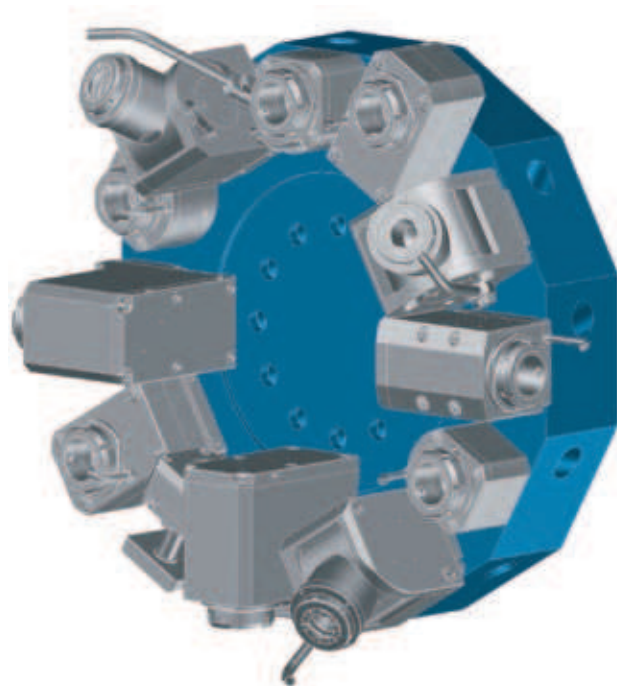
LOKUMA LB 400 - M / LU 400 - M (Upper Turret)

Data

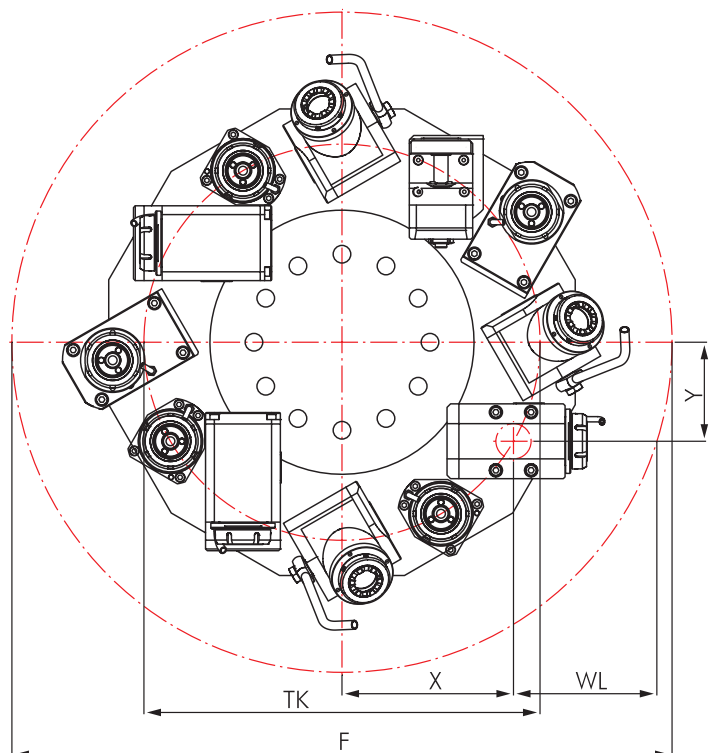
Machine type Series		Turret Stations
LB 400	M	12
LU 400	M	12



Disc-type Turret VDI 40



Interference Circles



Machine type Series	F	TK	X	Y	WL
LB/LU400	736	446	215	60	148

LOKUMA LB 400 - M / LU 400 - M (Upper Turret)

Driven Toolholders

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Straight Unit

for Manufacturer

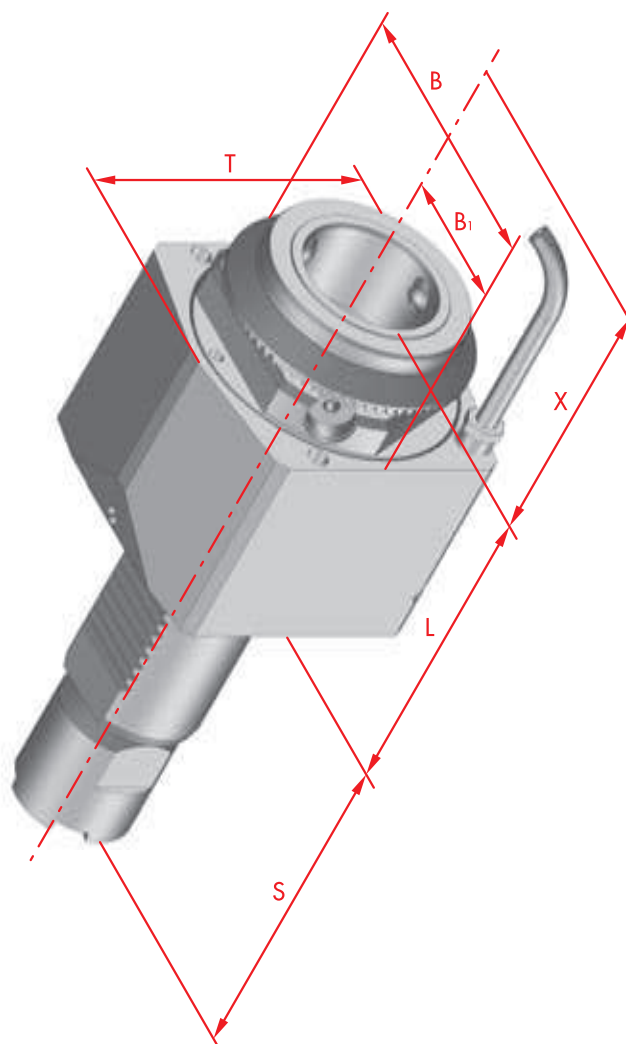
LOKUMA

for Machine type

LB 400-M
LU 400-M (Only for Upper Turret)

Dimensions

Revolver type	Disc-type Turret
Shank	VDI 40
Drive	Layer gear; single level
Graduation	30 / 60°



Order No.	Tool holder	Clamping range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	X mm	L mm	B mm	B1 mm	S mm	T mm
103505	ER 32	1,0-20	80 Nm	6.500 / 6.500	i = 1:1	external	-	75,5	87	38	101	75
103509	ER 32	1,0-20	80 Nm	6.500 / 6.500	i = 1:1	internal	-	75,5	87	38	101	75
103521	mi 50		80 Nm	6.500 / 6.500	i = 1:1	internal	-	92,0	84	42	101	84
124010*	ER 32	1,0-20	50 Nm	6.500 / 6.500	i = 1:1	external	-	95,0	160	70	101	80

Angle Unit

for Manufacturer

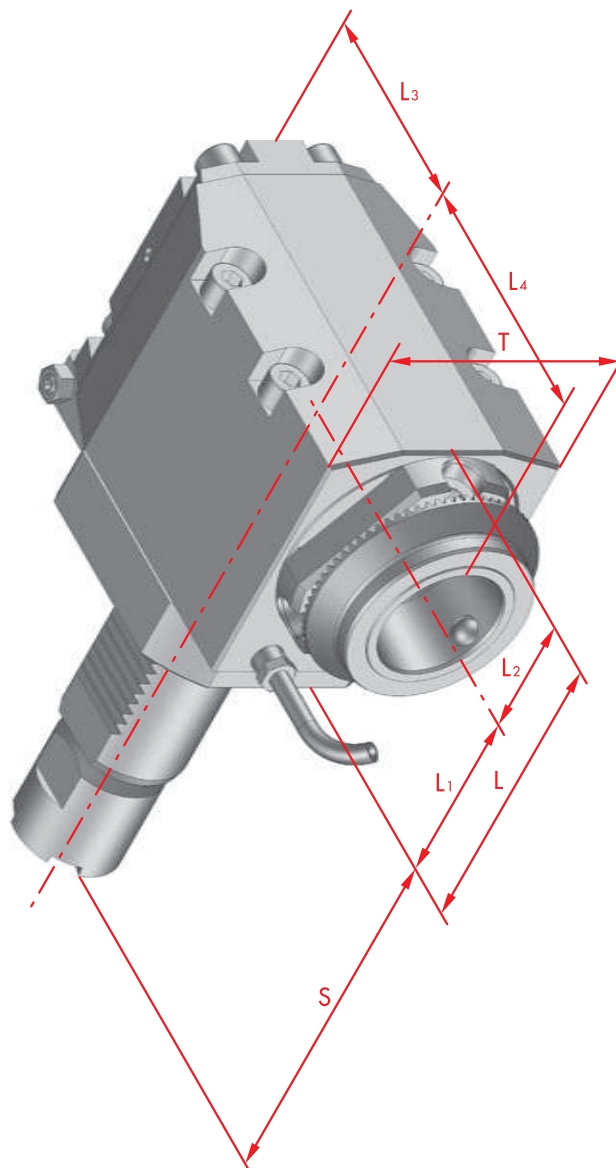
LOKUMA

for Machine type

LB 400-M
LU 400-M (Only for Upper Turret)

Dimensions

Revolver type	Disc-type Turret
Shank	VDI 40
Drive	Layer gear; single level
Graduation	30 / 60°
Note	no reversion of rotation (drive side direction = output side direction)



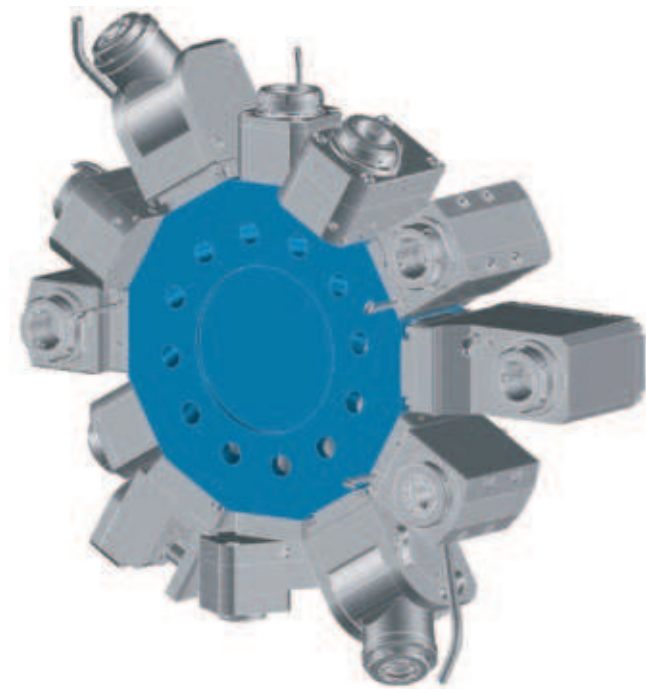
Order No.	Tool holder	Clamping range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	L mm	L1 mm	L2 mm	L3 mm	L4 mm	S mm	T mm
103542	ER 32	1,0-20	50 Nm	6.500 / 6.500	i = 1:1	external	109	70	39	66	70	101	80
103492	ER 32	1,0-20	50 Nm	6.500 / 6.500	i = 1:1	internal	109	70	39	66	70	101	80
103538	mi 50		50 Nm	6.500 / 6.500	i = 1:1	internal	109	70	39	66	88	101	80

Data

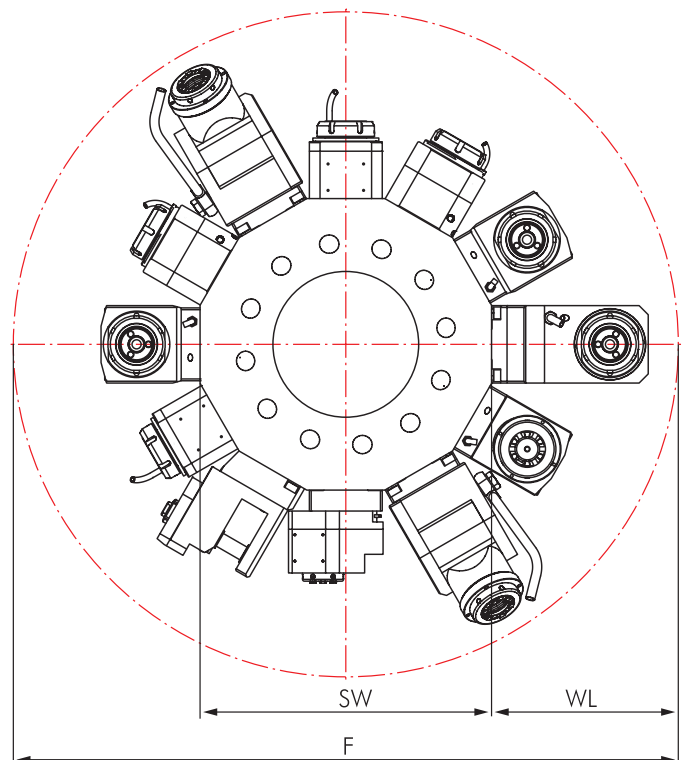


Machine type Series		Turret Stations
LB 3000	EX	12

Star-type Turret „BMT“



Interference Circles



Machine type Series	F	SW	WL
LB 3000 EX			

Driven Toolholders

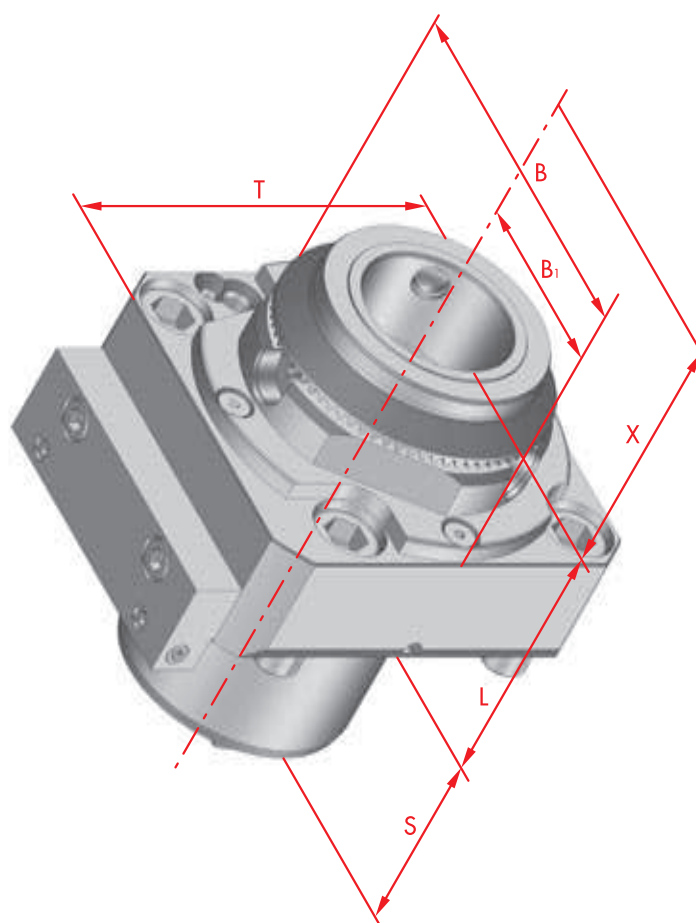
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Straight Unit

for Manufacturer	
LOKUMA	
for Machine type	
LB 3000	
Dimensions	
Turret type	Star-type Turret
Shank	BMT Ø 60 mm
Drive	Tang
SW	10 mm



Order No.	Tool holder	Clamping range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	X mm	L mm	B mm	B1 mm	S mm	T mm
167718	ER 32	1,0-20	80 Nm	6.000 / 6.000	i = 1:1	internal	-	65	100	50	49	97
167714	mi 50	-	80 Nm	6.000 / 6.000	i = 1:1	internal	-	69	100	50	49	97

Angle Unit

for Manufacturer

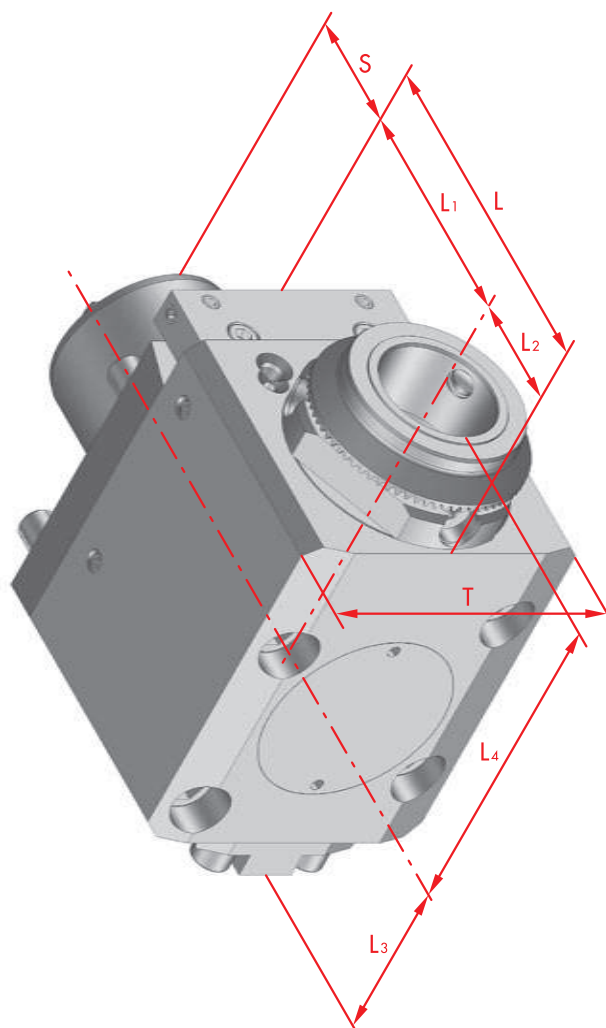
LOKUMA

for Machine type

LB 3000

Dimensions

Turret type	Star-type Turret
Shank	BMT Ø 60 mm
Drive	Tang
SW	10 mm
Note	no reversion of rotation (drive side direction = output side direction)



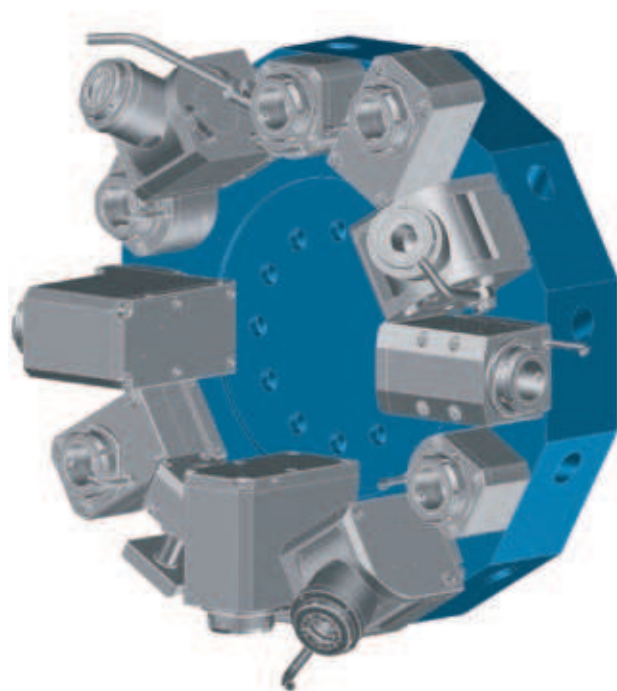
Order No.	Tool holder	Clamping range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	L mm	L1 mm	L2 mm	L3 mm	L4 mm	S mm	T mm
167731	ER 32	1,0-20	50 Nm	6.500 / 6.500	i = 1:1	internal	109	70	39	66	84,5	49	100
167710	mi 50	-	50 Nm	6.500 / 6.500	i = 1:1	internal	109	70	39	66	99,5	49	100

Data

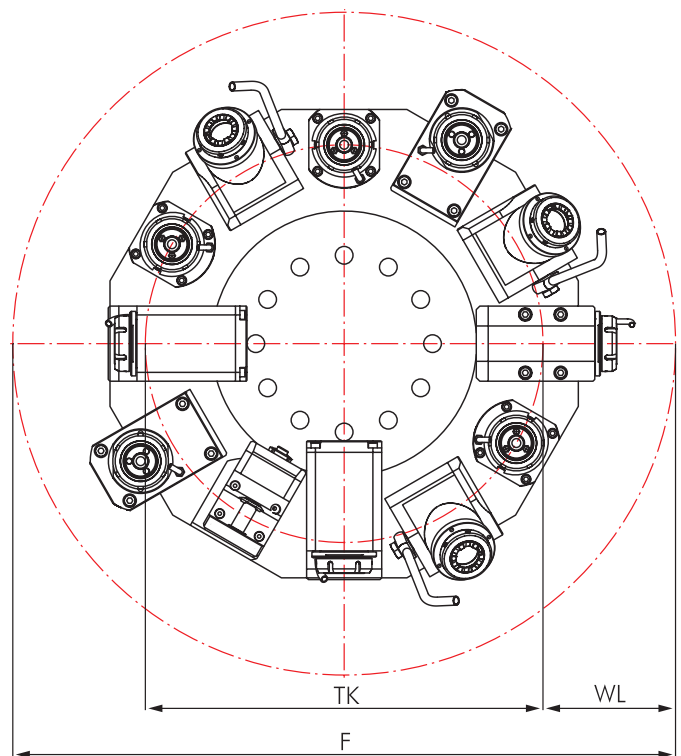
Disc-type Turret	Turret Stations
Drive	DIN 5482 (B 15 x 12)



Disc-type Turret VDI 30



Interference Circles



The interference circles are depending on your CNC machine.
You can find it in your machine instruction manuals.

Driven Toolholders

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Angle Unit		187	Angle Unit, adjustable 0-100°		198
			Saw Blade Holder		190

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Accessories		Collets DIN 6499 Threading Collets Wrenches Clamping Nuts Sleeves and Bushings	317 317 317 317 318

Straight Unit

for Turret Manufacturer

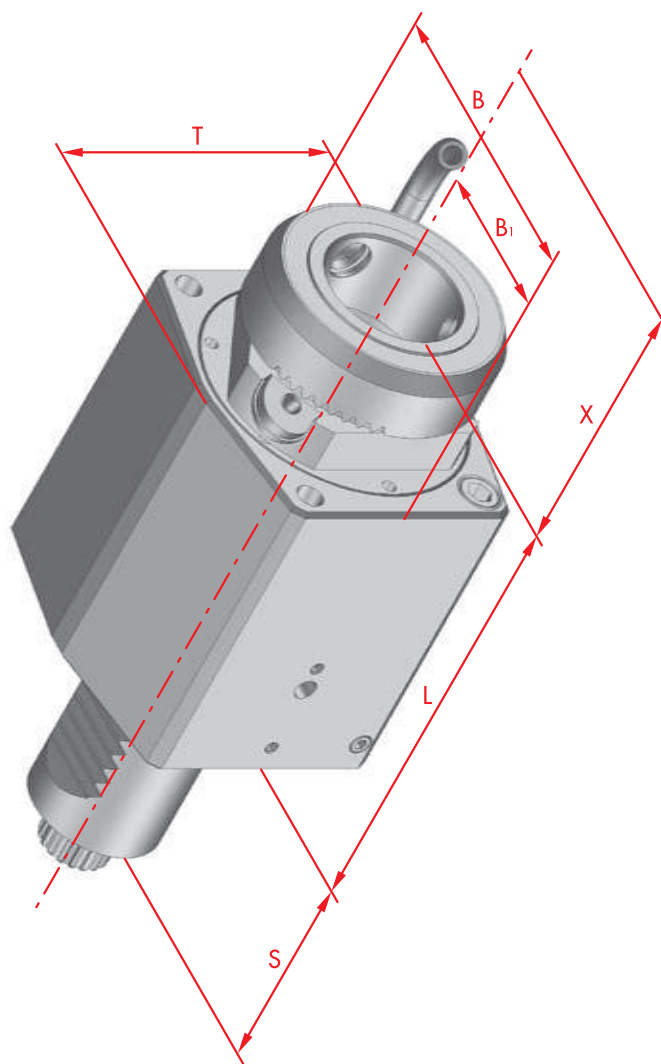
SAUTER

with Drive

DIN 5482 (B 15 x 12)

Dimensions

Revolver type	Disc-type Turret
Shank	VDI 30
Drive	DIN 5482
	B 15 x 12
	Z = 8
	Ø 14,5 mm



Order No.	Tool holder	Clamping range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	X mm	L mm	B mm	B1 mm	S mm	T mm
123780	ER 25	0,5-16	40 Nm	6.500 / 6.500	i = 1:1	external	-	77	70	35	45	70
124135	ER 25	0,5-16	25 Nm	6.500 / 6.500	i = 1:1	internal	-	77	70	35	45	70
124137	mi 40		25 Nm	6.500 / 6.500	i = 1:1	internal	-	92	71	35,5	45	65

Angle Unit

for Turret Manufacturer

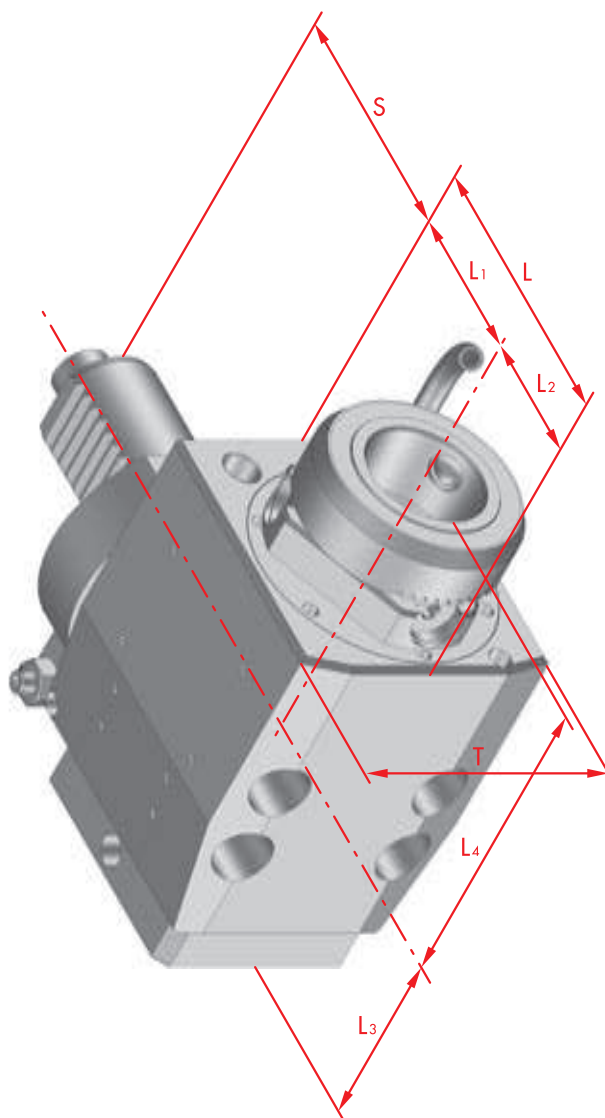
SAUTER

with Drive

DIN 5482 (B 15 x 12)

Dimensions

Revolver type	Disc-type Turret
Shank	VDI 30
Drive	DIN 5482
	B 15 x 12
	Z = 8
	Ø 14,5 mm



Order No.	Tool holder	Clamping range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	L mm	L1 mm	L2 mm	L3 mm	L4 mm	S mm	T mm
124491	ER 25	0,5-16	25 Nm	6.500 / 6.500	i = 1:1	external	94	60	34	36,5	60	45	70
101413	ER 25	0,5-16	25 Nm	6.500 / 6.500	i = 1:1	internal	94	60	34	54,0	60	45	70
169181	mi 40		25 Nm	6.500 / 6.500	i = 1:1	internal	94	60	34	48,5	81	45	70

Angle Unit, Offset type

for Turret Manufacturer

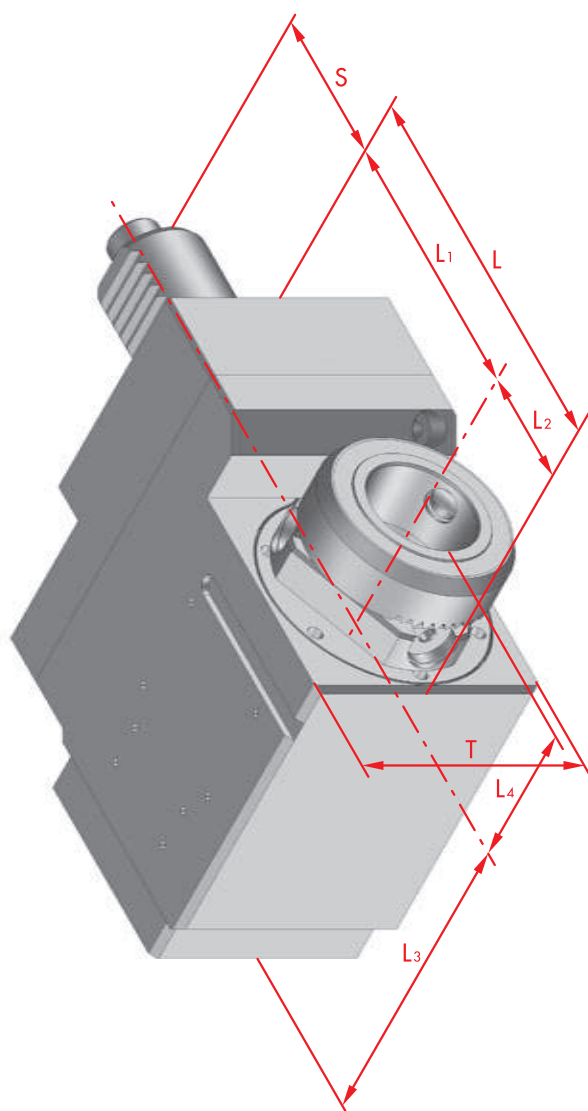
SAUTER

with Drive

DIN 5482 (B 15 x 12)

Dimensions

Revolver type	Disc-type Turret
Shank	VDI 30
Drive	DIN 5482
	B 15 x 12
	Z = 8
	Ø 14,5 mm



Order No.	Tool holder	Clamping range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	L mm	L1 mm	L2 mm	L3 mm	L4 mm	S mm	T mm
124497	ER 25	0,5-16	25 Nm	6.500 / 6.500	i = 1:1	external	114	80	34	76,8	20	45	68
166412	ER 25	0,5-16	20 Nm	6.500 / 6.500	i = 1:1	internal	114	80	34	88,4	20	45	68
124401	mi 40		20 Nm	6.500 / 6.500	i = 1:1	internal	114	80	34	88,4	41	45	68

Angle Unit, adjustable 0-100°

for Turret Manufacturer

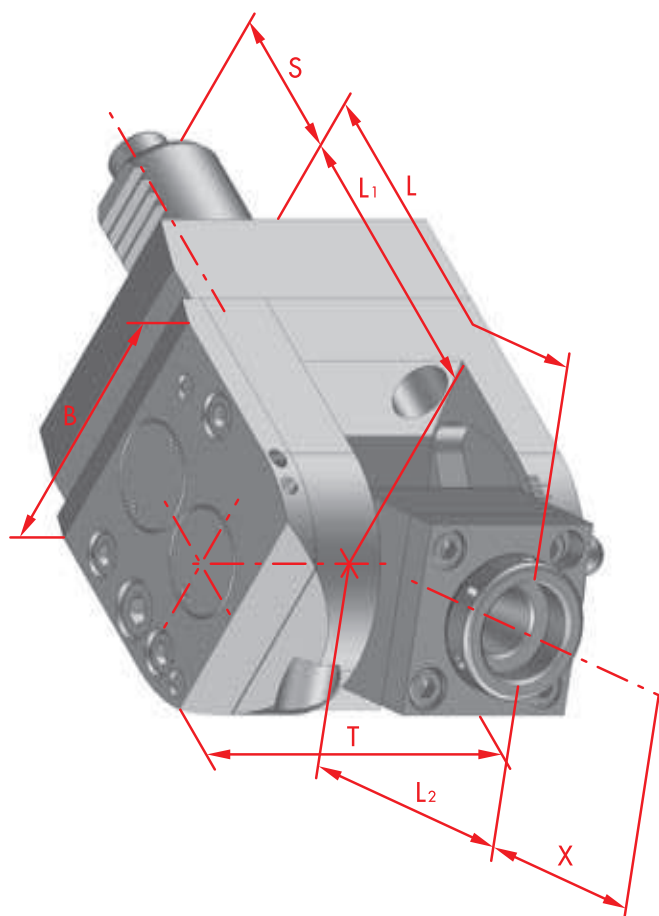
SAUTER

with Drive

DIN 5482 (B 15 x 12)

Dimensions

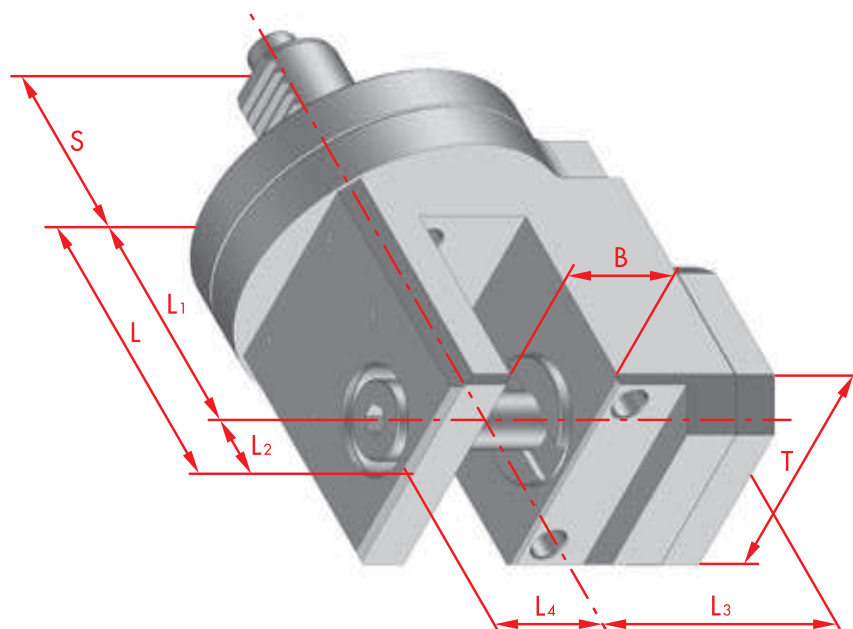
Revolver type	Disc-type Turret
Shank	VDI 30
Drive	DIN 5482
	B 15 x 12
	Z = 8
	Ø 14,5 mm



Order No.	Tool holder	Clamping range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	X mm	L mm	L1 mm	L2 mm	B mm	S mm	T mm
101705	ER 16	0,5-10	6 Nm	6.500 / 6.500	i = 1:1	external	-	138	73,5	64,5	85,5	45	68

Saw Blade Holder

for Turret Manufacturer	
	
with Drive	
DIN 5482 (B 15 x 12)	
Dimensions	
Turret type	Disc-type Turret
Shank	VDI 30
Drive	DIN 5482 B 15 x 12 Z = 8 Ø 14,5 mm



Order No.	Fitting dia. mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	L mm	L1 mm	L2 mm	L3 mm	L4 mm	B mm	S mm	T mm
101777	16	20 Nm	6.500 / 2.450	i = 2,66:1	external	115	85	30	77,3	36	25	45	72

Picture shows angle driven toolholder (90°) for a Sauter VDI 40 turret with a mimatic® mi50 interface. The mimatic® mi interface is a very innovative modular quick change system to reduce machine downtimes because all units can be preset outside the machine.

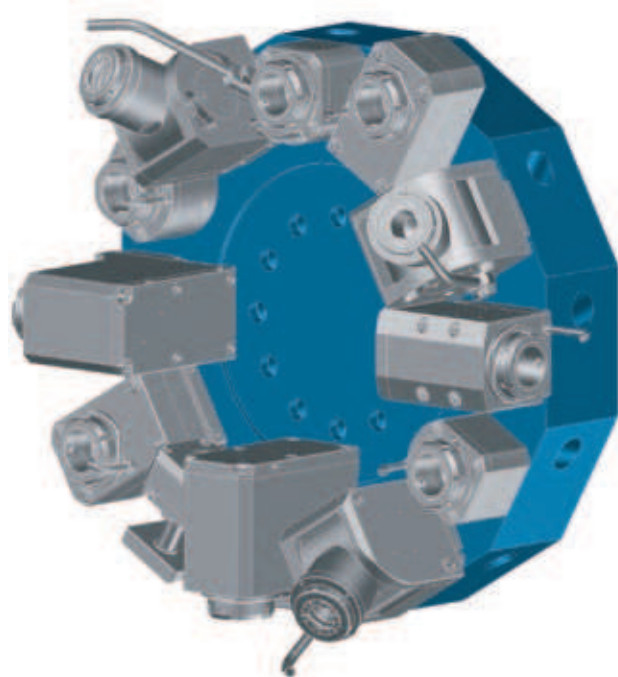


Data

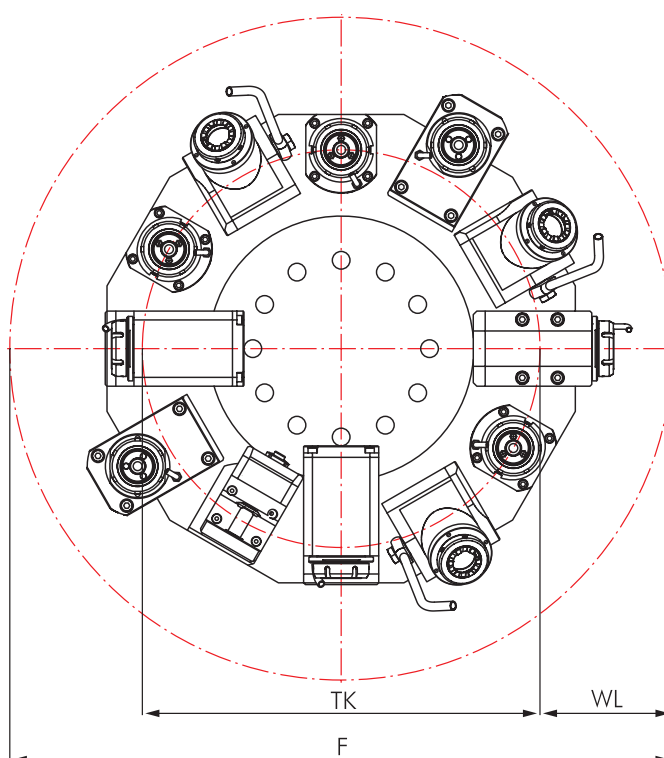
Disc-type Turret	Turret Stations
Drive	DIN 5482 (B 17 x 14)



Disc-type Turret VDI 40



Interference Circles



The interference circles are depending on your CNC machine.
You can find it in your machine instruction manuals.

Driven Toolholders

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Angle Unit		195	Angle Unit, adjustable 0-100°		197
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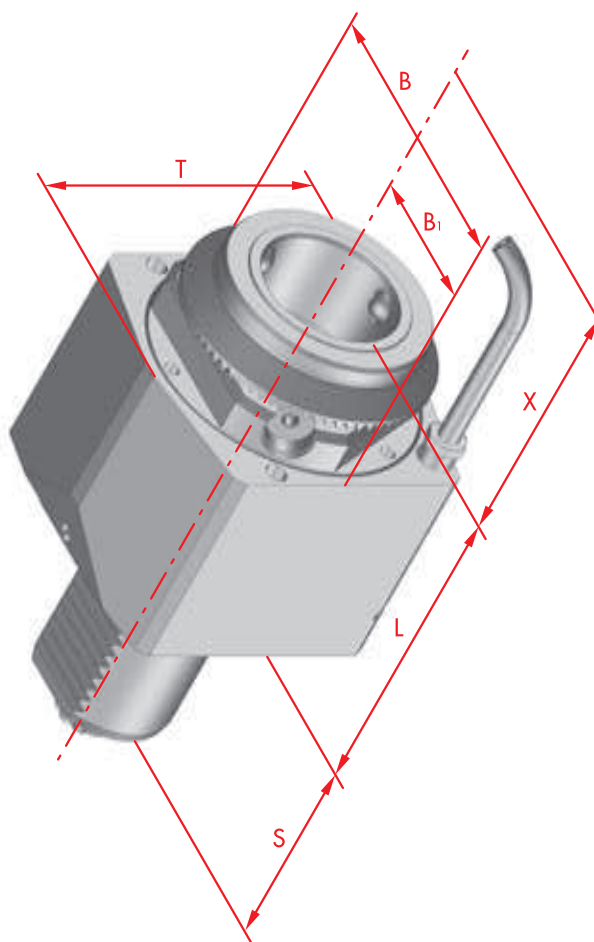
Options and Accessories

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Accessories		Collets DIN 6499 Threading Collets Wrenches Clamping Nuts Sleeves and Bushings	317 317 317 317 318



Straight Unit

for Turret Manufacturer	
	
with Drive	
DIN 5482 (B 17 x 14)	
Dimensions	
Revolver type	Disc-type Turret
Shank	VDI 40
Drive	DIN 5482
	B 17 x 14
	Z = 9
	Ø 16,5 mm



Order No.	Tool holder	Clamping range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	X mm	L mm	B mm	B1 mm	S mm	T mm
123797	ER 32	1,0-20	80 Nm	5.400 / 5.400	i = 1:1	external	-	95	80	40	53	80
124154	ER 32	1,0-20	80 Nm	6.000 / 6.000	i = 1:1	internal	-	80	89	40	53	80
124157	mi 50	0,5-20	80 Nm	6.000 / 6.000	i = 1:1	internal	-	92	89	40	53	80
124146	Hydro-Flex 20	6,0-20	80 Nm	8.000 / 8.000	i = 1:1	internal	-	83	89	40	53	80

Angle Unit

for Turret Manufacturer

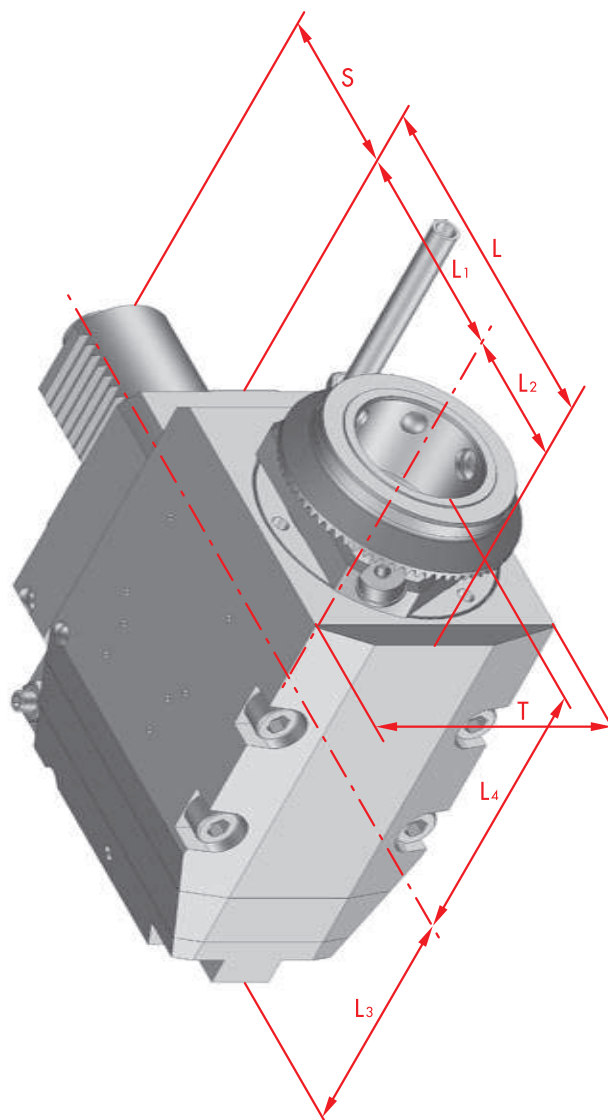
SAUTER

with Drive

DIN 5482 (B 17 x 14)

Dimensions

Revolver type	Disc-type Turret
Shank	VDI 40
Drive	DIN 5482
	B 17 x 14
	Z = 9
	Ø 16,5 mm



Order No.	Tool holder	Clamping range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	L mm	L1 mm	L2 mm	L3 mm	L4 mm	S mm	T mm
124516	ER 32	1,0-20	50 Nm	5.400 / 5.400	i = 1:1	external	113	70	43	69,0	70	53	80
124804	ER 32	1,0-20	50 Nm	5.200 / 5.200	i = 1:1	internal	113	70	43	75,5	70	53	80
124805	mi 50		50 Nm	6.500 / 6.500	i = 1:1	internal	113	70	43	75,5	88	53	80
124801	Hydro-Flex 20	6,0-20	50 Nm	5.200 / 5.200	i = 1:1	internal	113	70	43	75,5	82	53	80
124909	ER 25	0,5-16	20 Nm	6.000 / 12.000	i = 1:2	internal	109	70	39	72,5	75	53	85
124683	mi 40		20 Nm	6.000 / 12.000	i = 1:2	external	109	70	39	72,5	95	53	85

Angle Unit, Offset type

for Turret Manufacturer

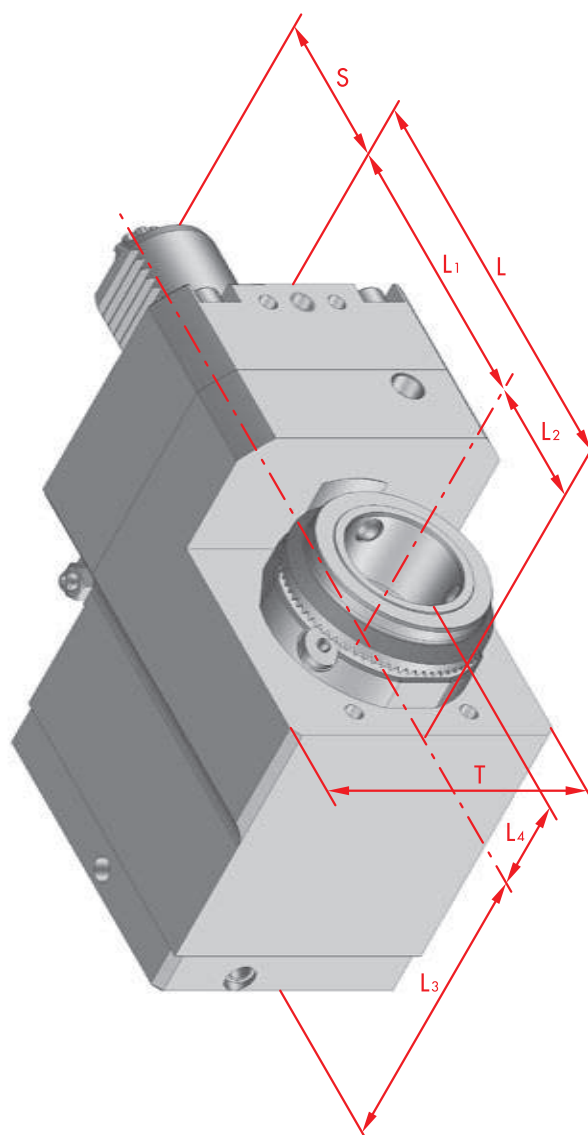
SAUTER

with Drive

DIN 5482 (B 17 x 14)

Dimensions

Revolver type	Disc-type Turret
Shank	VDI 40
Drive	DIN 5482
	B 17 x 14
	Z = 9
	Ø 16,5 mm



Order No.	Tool holder	Clamping range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	L mm	L1 mm	L2 mm	L3 mm	L4 mm	S mm	T mm
124740	ER 32	1,0-20	25 Nm	6.500 / 6.500	i = 1:1	external	120	86	34	76,5	37	53	72
124407	ER 32	1,0-20	80 Nm	6.500 / 6.500	i = 1:1	internal	112	70	42	110,0	20	53	84
124408	mi 50		100 Nm	4.000 / 4.000	i = 1:1	internal	145	100	45	107,5	31	53	96

Angle Unit, adjustable 0-100°

for Turret Manufacturer

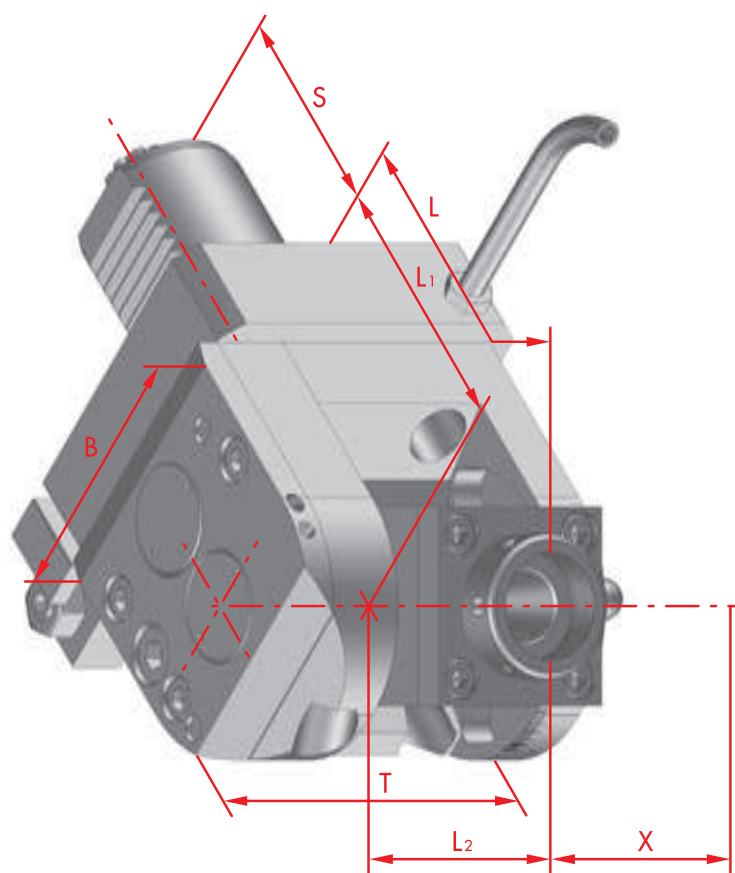
SAUTER

with Drive

DIN 5482 (B 17 x 14)

Dimensions

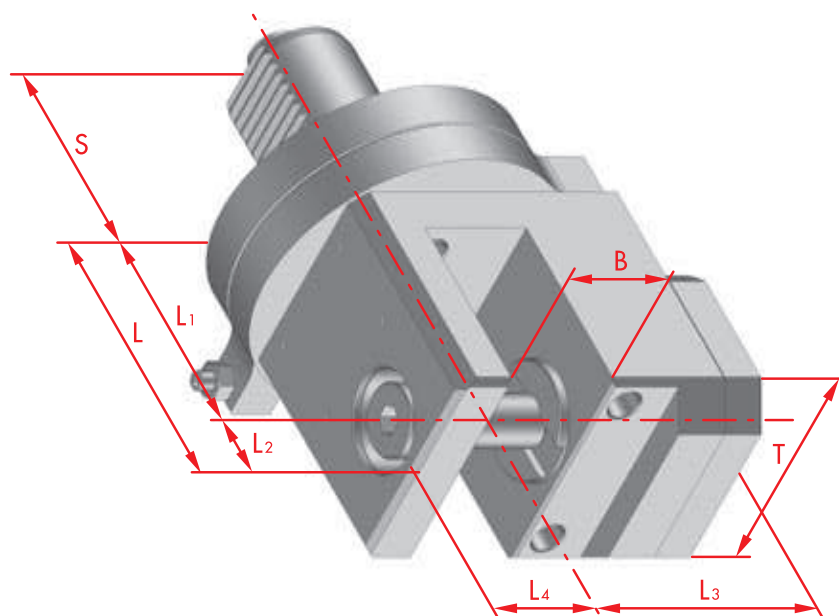
Revolver type	Disc-type Turret
Shank	VDI 40
Drive	DIN 5482
	B 17 x 14
	Z = 9
	Ø 16,5 mm



Order No.	Tool holder	Clamping range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	X mm	L mm	L1 mm	L2 mm	B mm	S mm	T mm
125009	ER 16	0,5-10	6 Nm	6.500 / 6.500	i = 1:1	external	-	134,5	73,5	61	92	53	90

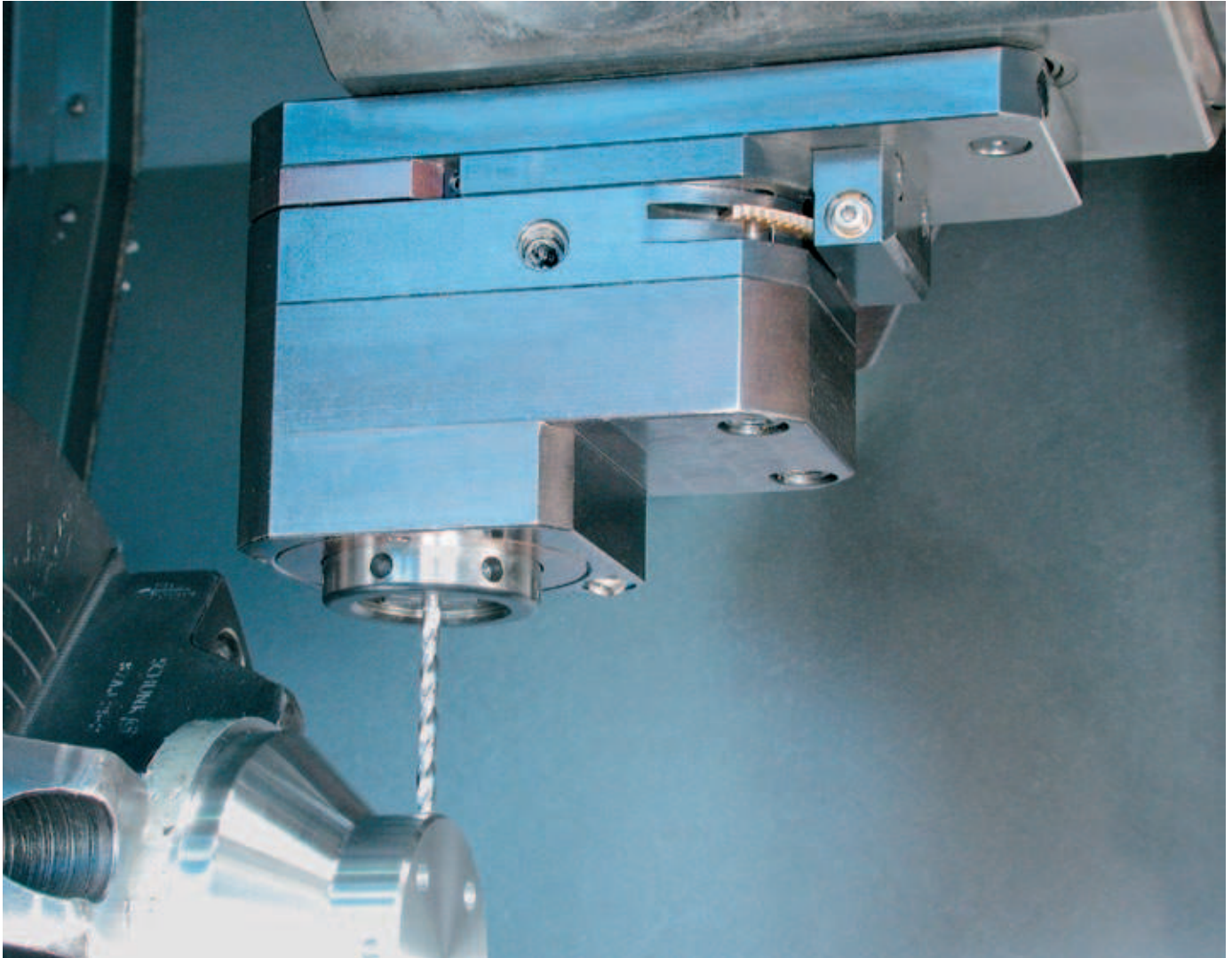
Saw Blade Holder

for Turret Manufacturer	
	
with Drive	
DIN 5482 (B 17 x 14)	
Dimensions	
Turret type	Disc-type Turret
Shank	VDI 40
Drive	DIN 5482 B 17 x 14 Z = 9 Ø 16,5 mm



Order No.	Fitting dia. mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	L mm	L1 mm	L2 mm	L3 mm	L4 mm	B mm	S mm	T mm
125087	22	20 Nm	6.500 / 2.450	i = 2,66:1	external	115	85	30	77,5	36	25	53	72
101810	22	40 Nm	6.500 / 2.450	i = 2,66:1	external	130	95	35	87,5	36	25	53	72

Picture shows a Y-axis driven toolholder with an adjustment range of ± 50 mm in Y-axis.

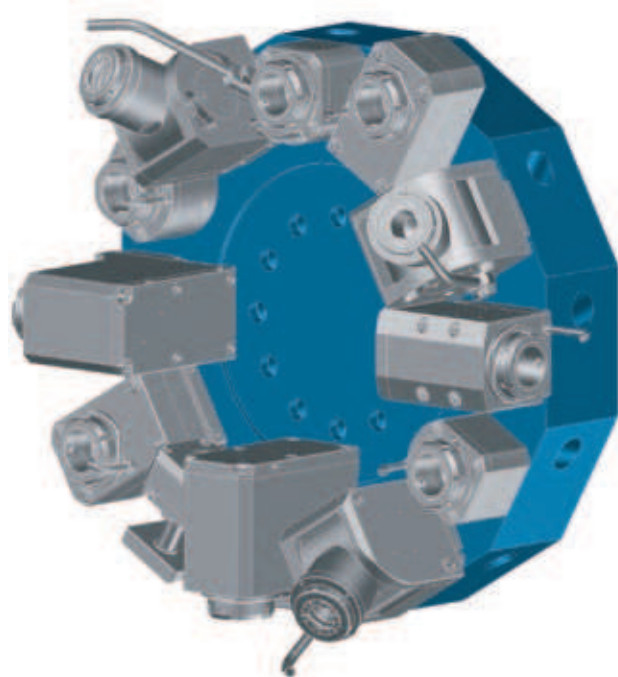


Data

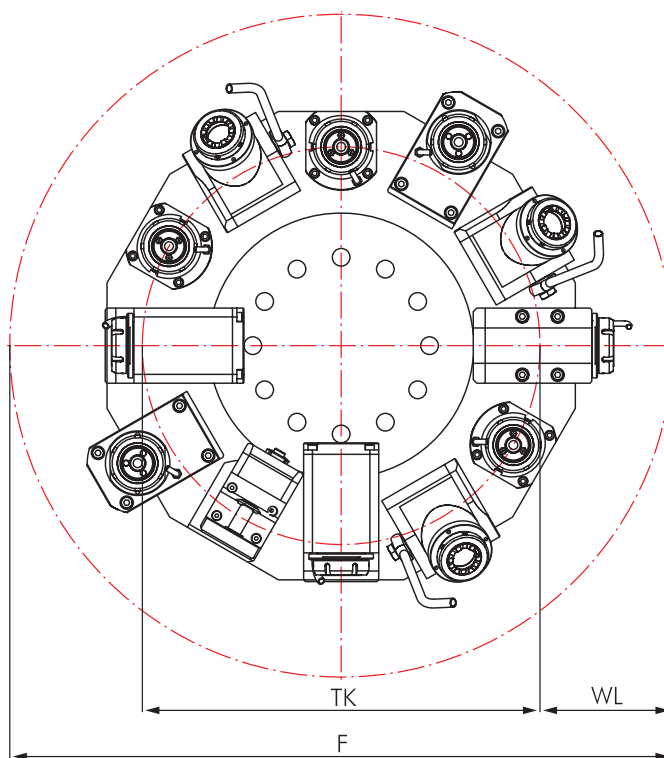
Disc-type Turret	Turret Stations
Drive	DIN 5482 (B 20 x 17)



Disc-type Turret VDI 50

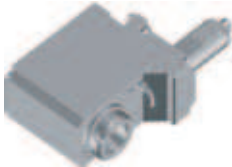


Interference Circles



The interference circles are depending on your CNC machine.
You can find it in your machine instruction manuals.

Driven Toolholders

	Page		Page
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Angle Unit		Angle Unit, adjustable 0-100°	
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Accessories		Collets DIN 6499 Threading Collets Wrenches Clamping Nuts Sleeves and Bushings	317 317 317 317 318

Straight Unit

for Turret Manufacturer

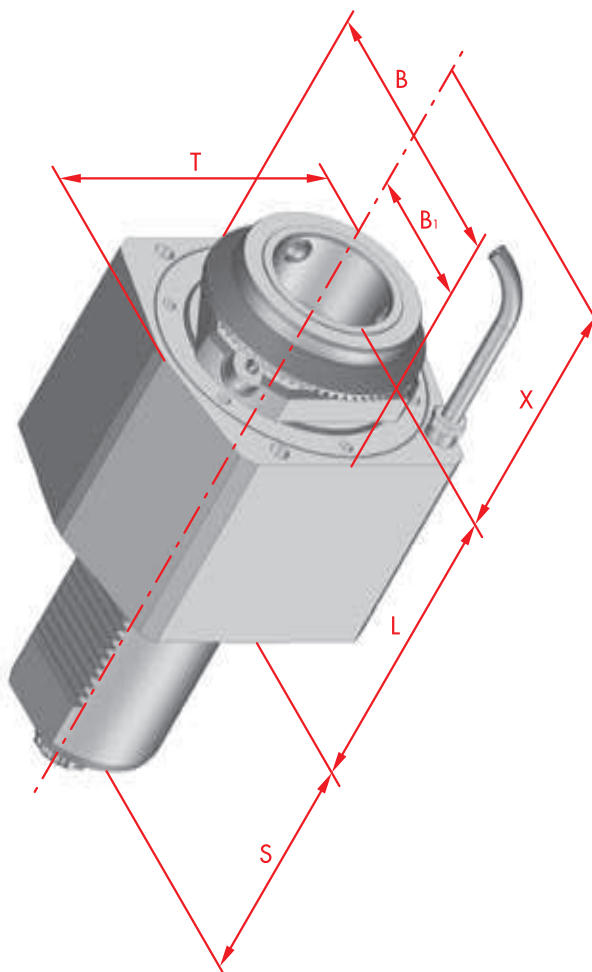
SAUTER

with Drive

DIN 5482 (B 20 x 17)

Dimensions

Revolver type	Disc-type Turret
Shank	VDI 50
Drive	DIN 5482
	B 20 x 17
	Z = 12
	Ø 19,5 mm



Order No.	Tool holder	Clamping range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	X mm	L mm	B mm	B ₁ mm	S mm	T mm
123815	ER 32	1,0-20	80 Nm	6.000 / 6.000	i = 1:1	external	-	86,0	96	48	78	96
124188	ER 32	1,0-20	80 Nm	5.200 / 5.200	i = 1:1	internal	-	86,0	96	48	78	96
124191	mi 50		80 Nm	6.000 / 6.000	i = 1:1	internal	-	105,5	96	48	78	96
124180	Hydro-Flex 20	6,0-20	80 Nm	6.000 / 6.000	i = 1:1	internal	-	104,0	96	48	78	96

Angle Unit

for Turret Manufacturer

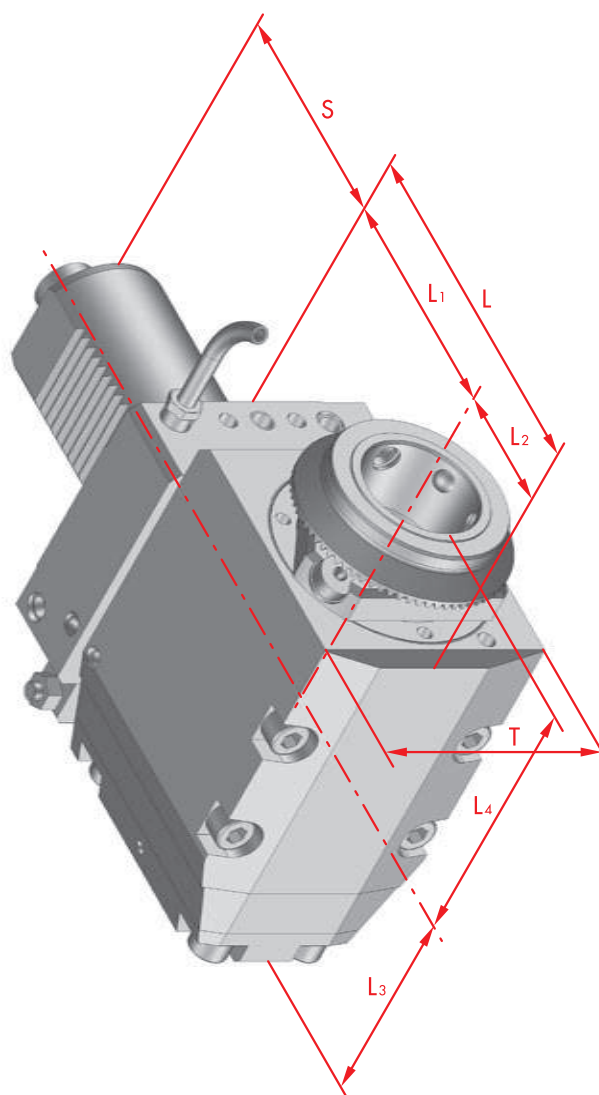
SAUTER

with Drive

DIN 5482 (B 20 x 17)

Dimensions

Revolver type	Disc-type Turret
Shank	VDI 50
Drive	DIN 5482
	B 20 x 17
	Z = 12
	Ø 19,5 mm


 Illustration show
 right version

Order No.	Tool holder	Clamping range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	L mm	L1 mm	L2 mm	L3 mm	L4 mm	S mm	T mm
124532	ER 32	1,0-20	80 Nm	5.200 / 5.200	i = 1:1	external	119	80	39	69,0	70	78	88
124818	ER 32	1,0-20	80 Nm	5.200 / 5.200	i = 1:1	internal	119	80	39	75,5	70	78	88
124819	mi 50		80 Nm	6.500 / 6.500	i = 1:1	internal	123	80	43	75,5	88	78	88
101443	Hydro-Flex 20	6,0-20	50 Nm	6.000 / 6.000	i = 1:1	internal	119	80	39	75,5	85	78	88
171907*	Hydro-Flex 20	6,0-20	50 Nm	6.000 / 6.000	i = 1:1	internal	119	80	39	75,5	85	78	88
124820*	mi 50		50 Nm	6.500 / 6.500	i = 1:1	internal	123	80	43	75,5	88	78	88

* left version

Angle Unit, Offset type

for Turret Manufacturer

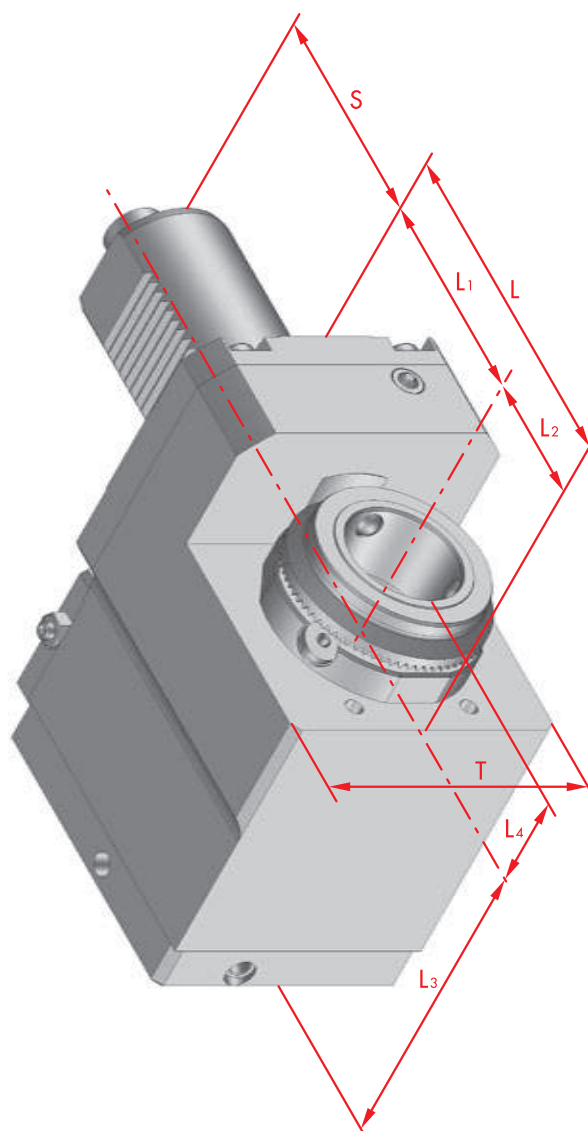
SAUTER

with Drive

DIN 5482 (B 20 x 17)

Dimensions

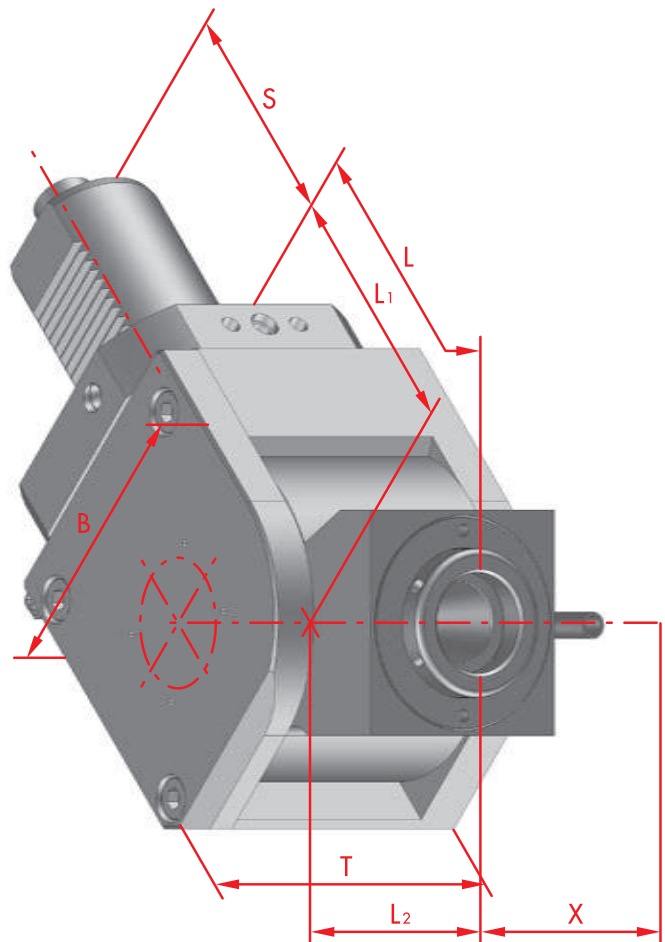
Revolver type	Disc-type Turret
Shank	VDI 50
Drive	DIN 5482
	B 20 x 17
	Z = 12
	Ø 19,5 mm



Order No.	Tool holder	Clamping range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	L mm	L1 mm	L2 mm	L3 mm	L4 mm	S mm	T mm
124745	ER 32	1,0-20	80 Nm	4.000 / 4.000	i = 1:1	external	112	70	42	111,0	20	78	84
124414	ER 32	1,0-20	80 Nm	4.000 / 4.000	i = 1:1	internal	112	70	42	111,0	20	78	84
124415	mi 50		100 Nm	4.000 / 4.000	i = 1:1	internal	120	75	45	107,5	31	78	96

Angle Unit, adjustable 0-100°

for Turret Manufacturer	
SAUTER	
with Drive	
DIN 5482 (B 20 x 17)	
Dimensions	
Revolver type	Disc-type Turret
Shank	VDI 50
Drive	DIN 5482 B 20 x 17 Z = 12 Ø 19,5 mm

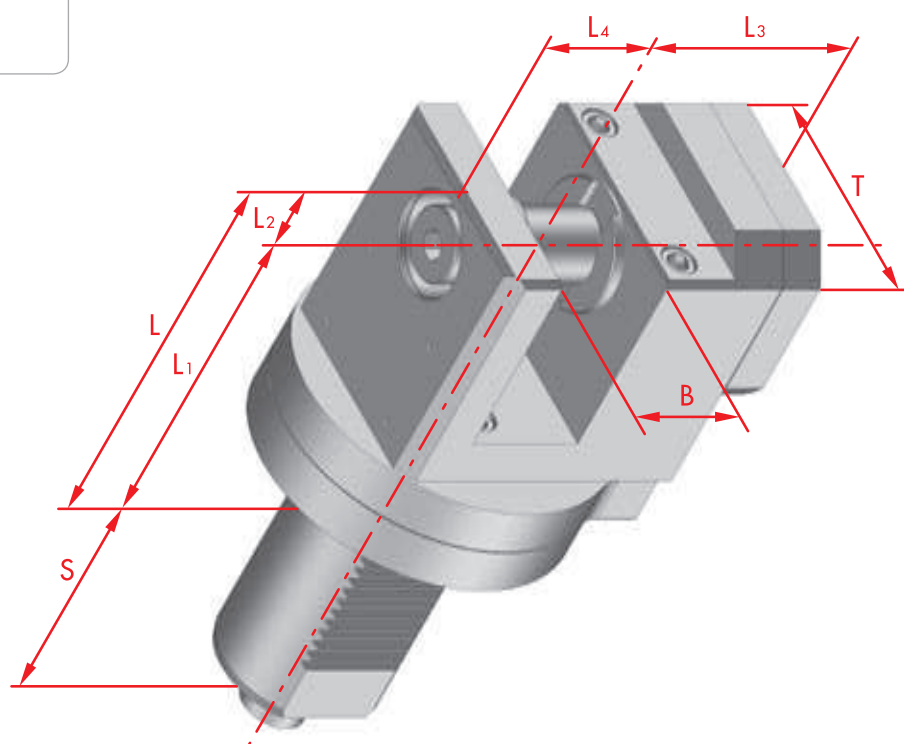


Order No.	Tool holder	Clamping range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	X mm	L mm	L1 mm	L2 mm	B mm	S mm	T mm
101715	ER 25	0,5-16	35 Nm	6.500 / 6.500	i = 1:1	external	-	178	88	90	102	78	96



Saw Blade Holder

for Turret Manufacturer	
SAUTER	
with Drive	
DIN 5482 (B 20 x 17)	
Dimensions	
Turret type	Disc-type Turret
Shank	VDI 50
Drive	DIN 5482 B 20 x 17 Z = 12 Ø 19,5 mm



Order No.	Fitting dia. mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	L mm	L1 mm	L2 mm	L3 mm	L4 mm	B mm	S mm	T mm
101812	22	40 Nm	6.500 / 2.450	i = 2,66:1	external	130	95	35	87,5	36	25	78	72

Picture shows a 90° angle head with ER 32 collet

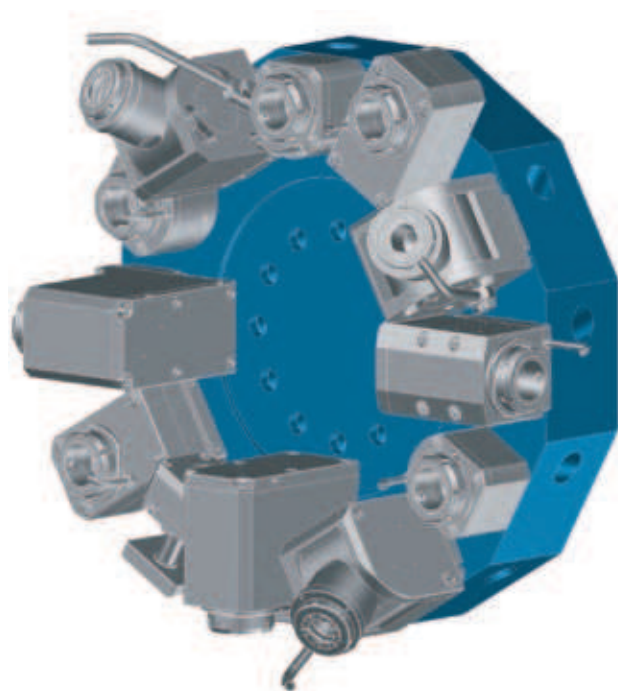


Data

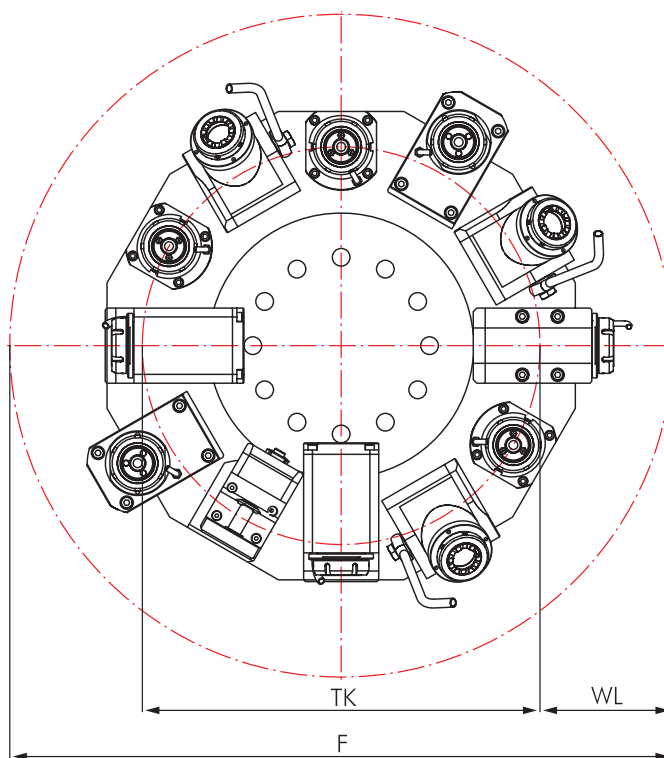
Disc-type Turret	Turret Stations
Drive	DIN 5482 (B 25 x 22)



Disc-type Turret VDI 60



Interference Circles



The interference circles are depending on your CNC machine.
You can find it in your machine instruction manuals.

Driven Toolholders

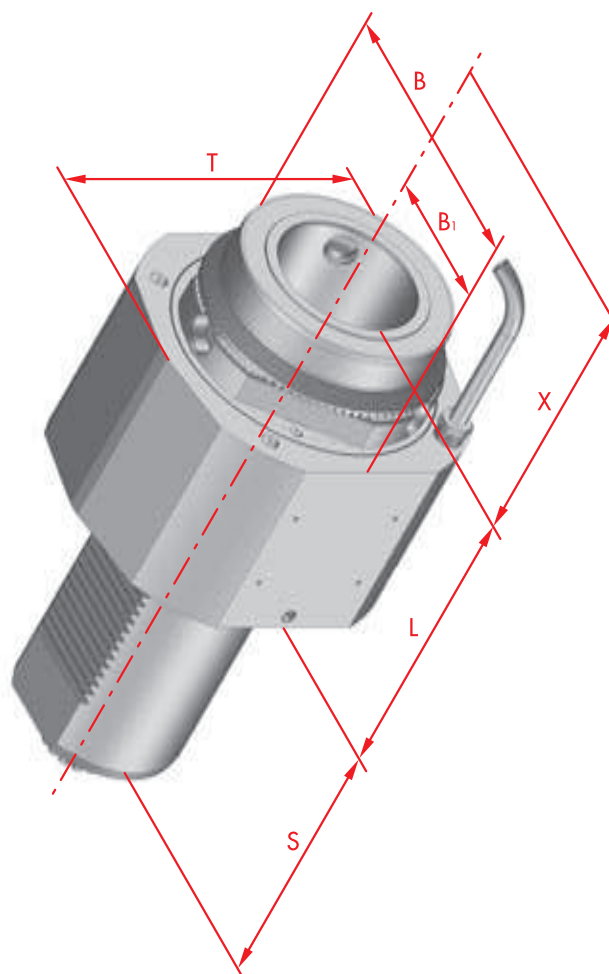
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Angle Unit			
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Options and Accessories

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Straight Unit

for Turret Manufacturer	
	
with Drive	
DIN 5482 (B 25 x 22)	
Dimensions	
Revolver type	Disc-type Turret
Shank	VDI 60
Drive	DIN 5482 B 25 x 22 Z = 14 Ø 24,5 mm



Order No.	Tool holder	Clamping range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	X mm	L mm	B mm	B1 mm	S mm	T mm
123820	ER 40	3,0-26	140 Nm	4.000 / 4.000	i = 1:1	external	-	118,0	108	54	94	104
124204	ER 40	3,0-26	140 Nm	4.000 / 4.000	i = 1:1	internal	-	123,0	106	52	94	96
124206	mi 63		140 Nm	4.000 / 4.000	i = 1:1	internal	-	105,5	108	54	94	110

Angle Unit

for Turret Manufacturer

SAUTER

with Drive

DIN 5482 (B 25 x 22)

Dimensions

Revolver type	Disc-type Turret
Shank	VDI 60
Drive	DIN 5482
	B 25 x 22
	Z = 14
	Ø 24,5 mm

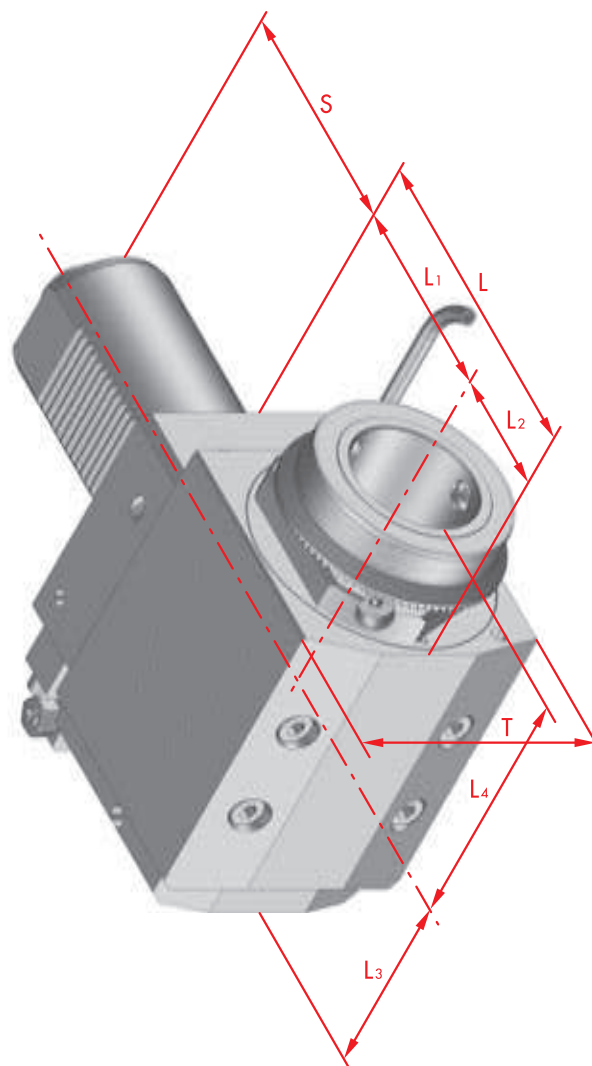


Illustration shows
right version

Order No.	Tool holder	Clamping range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	L mm	L1 mm	L2 mm	L3 mm	L4 mm	S mm	T mm
124537	ER 40	3,0-26	80 Nm	5.200 / 5.200	i = 1:1	external	135	85	50	69,0	107,5	94	100
101453	ER 40	3,0-26	80 Nm	6.000 / 6.000	i = 1:1	internal	129	80	49	73,5	107,5	94	100
124823	mi 63		80 Nm	4.000 / 4.000	i = 1:1	internal	130	80	50	73,5	97	94	105
133738*	mi 63		80 Nm	4.000 / 4.000	i = 1:1	internal	130	80	50	73,5	97	94	102

* Left version

Angle Unit, adjustable 0-100°

for Turret Manufacturer	
	
with Drive	
DIN 5482 (B 25 x 22)	
Dimensions	
Revolver type	Disc-type Turret
Shank	VDI 60
Drive	DIN 5482
	B 25 x 22
	Z = 14
	Ø 24,5 mm

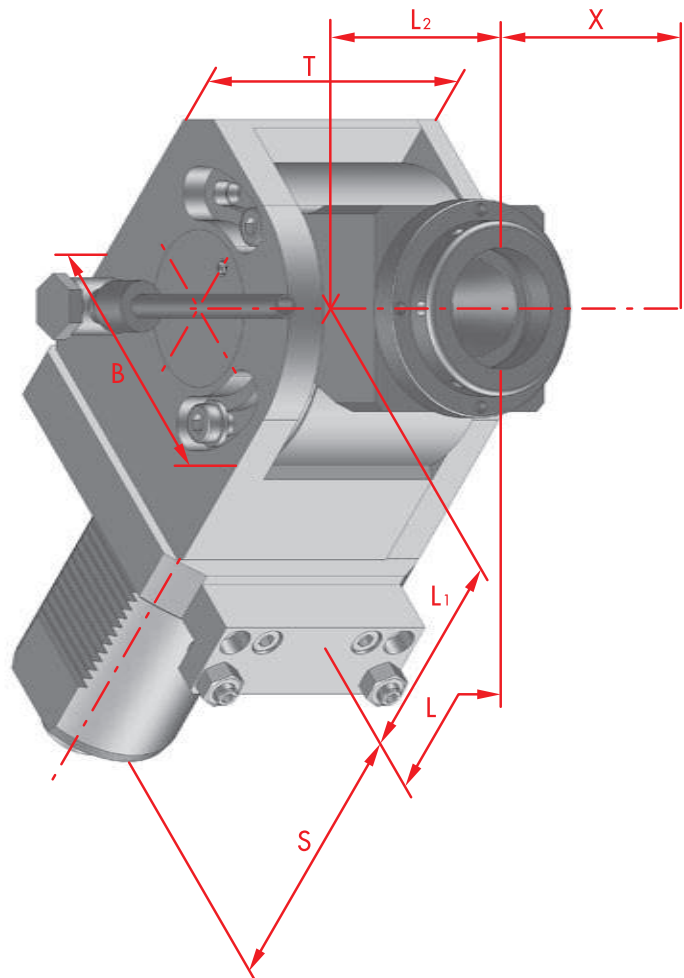


Illustration shows
left version

Order No.	Tool holder	Clamping range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	X mm	L mm	L1 mm	L2 mm	B mm	S mm	T mm
125015	ER 32	1,0-20	35 Nm	6.000 / 6.000	i = 1:1	external	-	192,5	88	104,5	107,5	94	106

Picture shows a 90° angle head with ER 25 collet

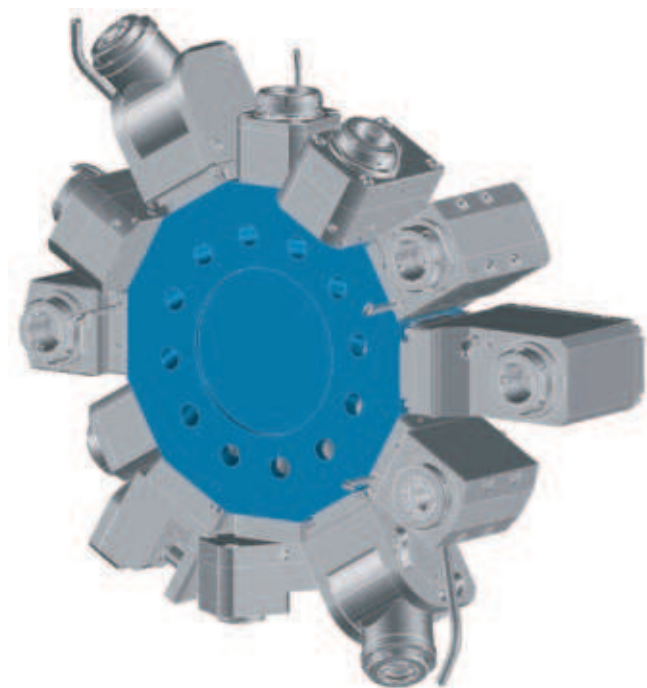


Data

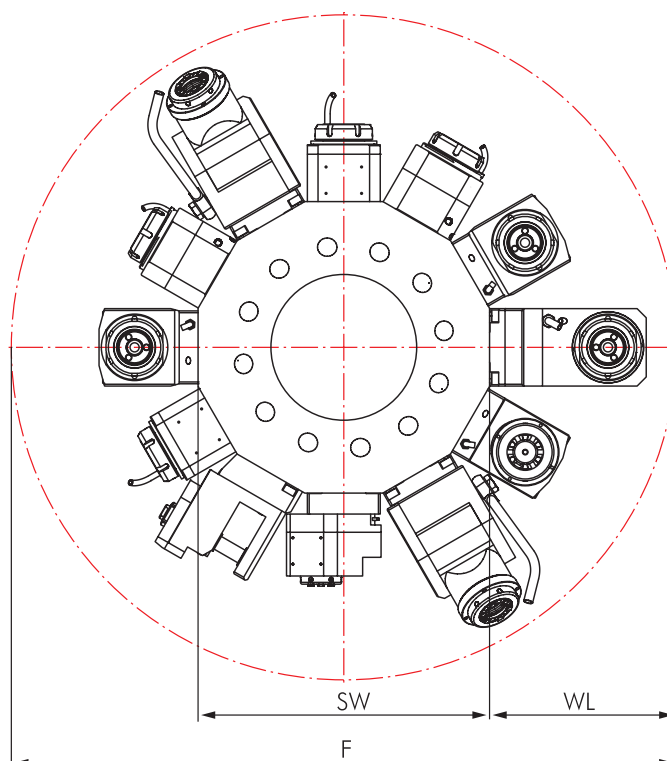
Star-type Turret	Turret Stations
Drive	DIN 5480 (W16x0,8x30x18/9b)



Star-type Turret VDI 30



Interference Circles



The interference circles are depending on your CNC machine.
You can find it in your machine instruction manuals.

Driven Toolholders

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Straight Unit

for Turret Manufacturer

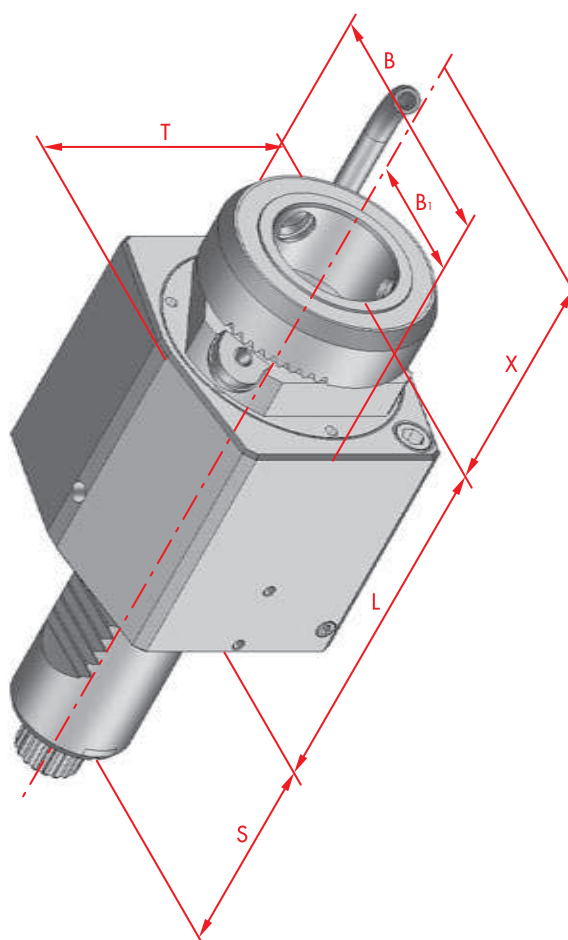
SAUTER

with Drive

DIN 5480
(W 16 x 0,8 x 30 x 18 / 9b)

Dimensions

Revolver type	Star-type Turret
Shank	VDI 30
Drive	DIN 5480 with spindle orientation detent (Patent Sauter) W 16x0,8x30x18 / 9b Ø 15,9 mm



Order No.	Tool holder	Clamping range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	X mm	L mm	B mm	B1 mm	S mm	T mm
133756	ER 25	0,5-16	40 Nm	6.500 / 6.500	i = 1:1	external	-	81	71	35	55	65
133736	ER 25	0,5-16	40 Nm	6.500 / 6.500	i = 1:1	internal	-	81	71	35	55	65
133762	mi 40		40 Nm	6.500 / 6.500	i = 1:1	internal	-	92	71	35	55	65

Angle Unit, Right-hand Version

for Turret Manufacturer

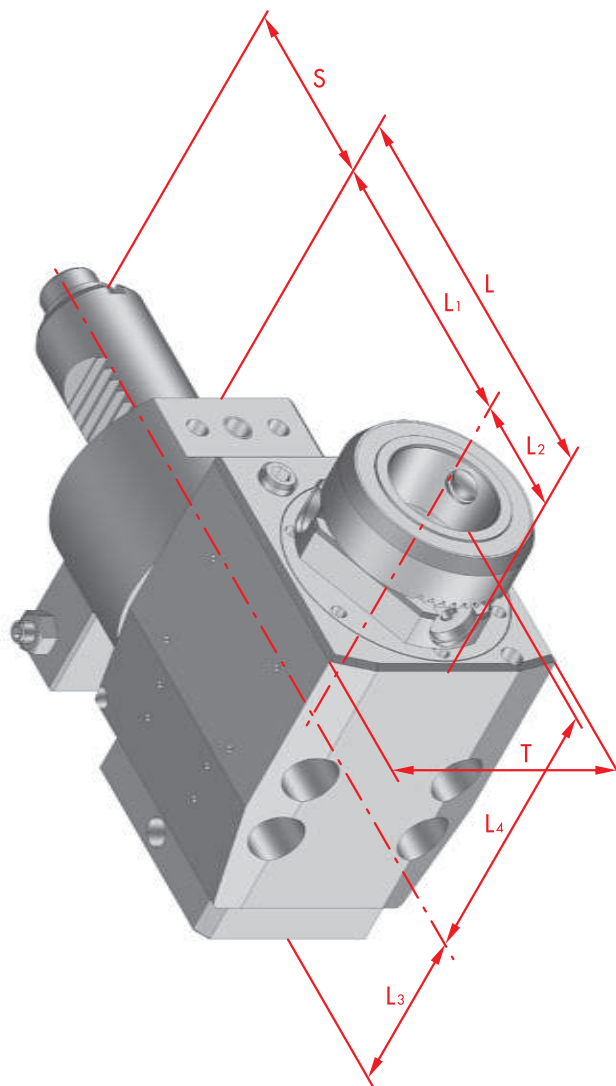
SAUTER

with Drive

DIN 5480
(W 16 x 0,8 x 30 x 18 / 9b)

Dimensions

Revolver type	Star-type Turret
Shank	VDI 30
Drive	DIN 5480 with spindle orientation detent (Patent Sauter) W 16x0,8x30x18 / 9b Ø 15,9 mm



Order No.	Tool holder	Clamping range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	L mm	L1 mm	L2 mm	L3 mm	L4 mm	S mm	T mm
103554	ER 25	0,5-16	25 Nm	6.500 / 6.500	i = 1:1	external	89	55	34	36,5	60	55	70
103536	ER 25	0,5-16	25 Nm	6.500 / 6.500	i = 1:1	internal	89	55	34	36,5	60	55	70
168443	ER 25	0,5-16	20 Nm	6.000 / 12.000	i = 1:2	internal	90	55	35	62	72,5	55	70
133763	ER 25	0,5-16	25 Nm	6.500 / 6.500	i = 1:1	external	119	85	34	36,5	60	55	70
133739	ER 25	0,5-16	25 Nm	6.500 / 6.500	i = 1:1	internal	119	85	34	36,5	60	55	70
133733	mi 40		25 Nm	6.500 / 6.500	i = 1:1	internal	119	85	34	48,5	81	55	70
133771	ER 25	0,5-16	25 Nm	6.500 / 6.500	i = 1:1	external	134	100	34	36,5	60	55	70
133772	ER 25	0,5-16	25 Nm	6.500 / 6.500	i = 1:1	internal	134	100	34	36,5	60	55	70
133764	mi 40		25 Nm	6.500 / 6.500	i = 1:1	internal	134	100	34	48,5	81	55	70
171413*	ER 25	0,5-16	25 Nm	6.500 / 6.500	i = 1:1	external	119	85	34	36,5	60	55	70

* steel housing

Angle Unit, Left-hand Version

for Turret Manufacturer

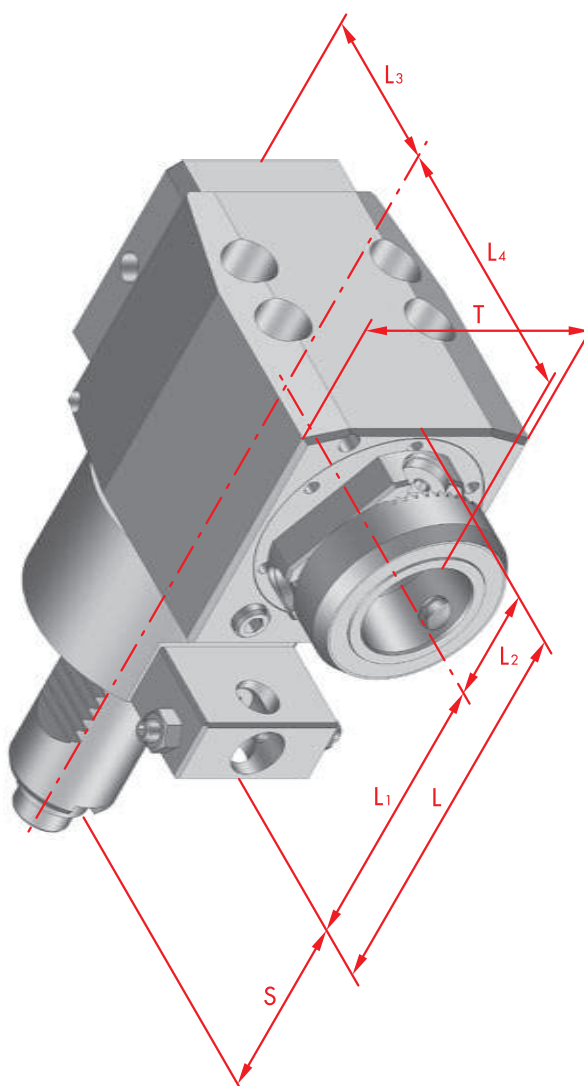
SAUTER

with Drive

DIN 5480
(W 16 x 0,8 x 30 x 18 / 9b)

Dimensions

Revolver type	Star-type Turret
Shank	VDI 30
Drive	DIN 5480 with spindle orientation detent (Patent Sauter) W 16x0,8x30x18 / 9b Ø 15,9 mm



Order No.	Tool holder	Clamping range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	L mm	L1 mm	L2 mm	L3 mm	L4 mm	S mm	T mm
103545	ER 25	0,5-16	25 Nm	6.500 / 6.500	i = 1:1	external	89	55	34	36,5	60	55	70
103515	ER 25	0,5-16	25 Nm	6.500 / 6.500	i = 1:1	internal	89	55	34	36,5	60	55	70
133730	ER 25	0,5-16	25 Nm	6.500 / 6.500	i = 1:1	external	119	85	34	36,5	60	55	70
133731	ER 25	0,5-16	25 Nm	6.500 / 6.500	i = 1:1	internal	119	85	34	36,5	60	55	70
133732	mi 40		25 Nm	6.500 / 6.500	i = 1:1	internal	119	85	34	48,4	81	55	70
168324	ER 25	0,5-16	20 Nm	6.000 / 12.000	i = 1:2	external	120	85	95	62	72,5	55	70
168444	ER 25	0,5-16	20 Nm	6.000 / 12.000	i = 1:2	internal	135	85	35	62	72,5	55	70
133766	mi 40		25 Nm	6.500 / 6.500	i = 1:1	external	134	100	34	48	81	55	70
103507	ER 25	0,5-16	25 Nm	6.500 / 6.500	i = 1:1	internal	134	100	34	36,5	60	55	70
133747	ER 25	0,5-16	25 Nm	6.500 / 6.500	i = 1:1	external	134	100	34	36,5	60	55	70
168325	ER 25	0,5-16	20 Nm	6.000 / 12.000	i = 1:2	internal	135	100	35	62	72,5	55	70
168445	ER 25	0,5-16	20 Nm	6.000 / 12.000	i = 1:2	internal	135	100	35	62	72,5	55	70

Angle Unit, Offset type, Right-hand Version

for Turret Manufacturer

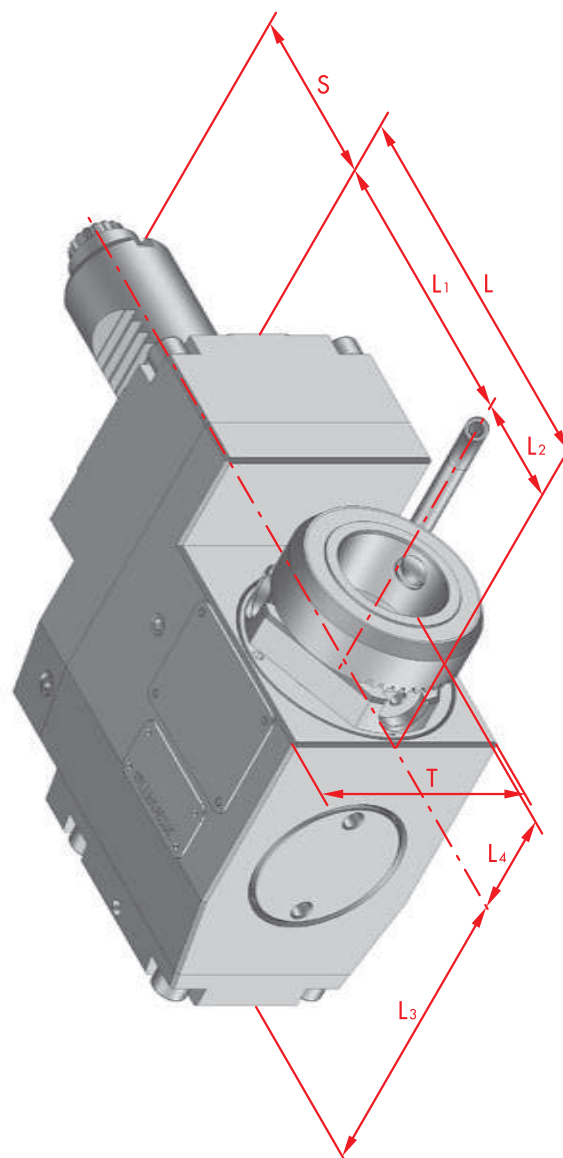
SAUTER

with Drive

DIN 5480
(W 16 x 0,8 x 30 x 18 / 9b)

Dimensions

Revolver type	Star-type Turret
Shank	VDI 30
Drive	DIN 5480 with spindle orientation detent (Patent Sauter) W 16x0,8x30x18 / 9b Ø 15,9 mm



Order No.	Tool holder	Clamping range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	L mm	L1 mm	L2 mm	L3 mm	L4 mm	S mm	T mm
103539	ER 25	0,5-16	25 Nm	6.500 / 6.500	i = 1:1	external	119	85	34	76,5	20	55	68
103555	ER 25	0,5-16	25 Nm	6.500 / 6.500	i = 1:1	internal	119	85	34	88,4	20	55	68
169187	mi 40		25 Nm	6.500 / 6.500	i = 1:1	internal	117	85	32	91	33	55	64
103546	ER 25	0,5-16	25 Nm	6.500 / 6.500	i = 1:1	external	134	100	34	76,5	20	55	68
103547	ER 25	0,5-16	25 Nm	6.500 / 6.500	i = 1:1	internal	134	100	34	88,4	20	55	68

Angle Unit, Offset type, Left-hand Version

for Turret Manufacturer

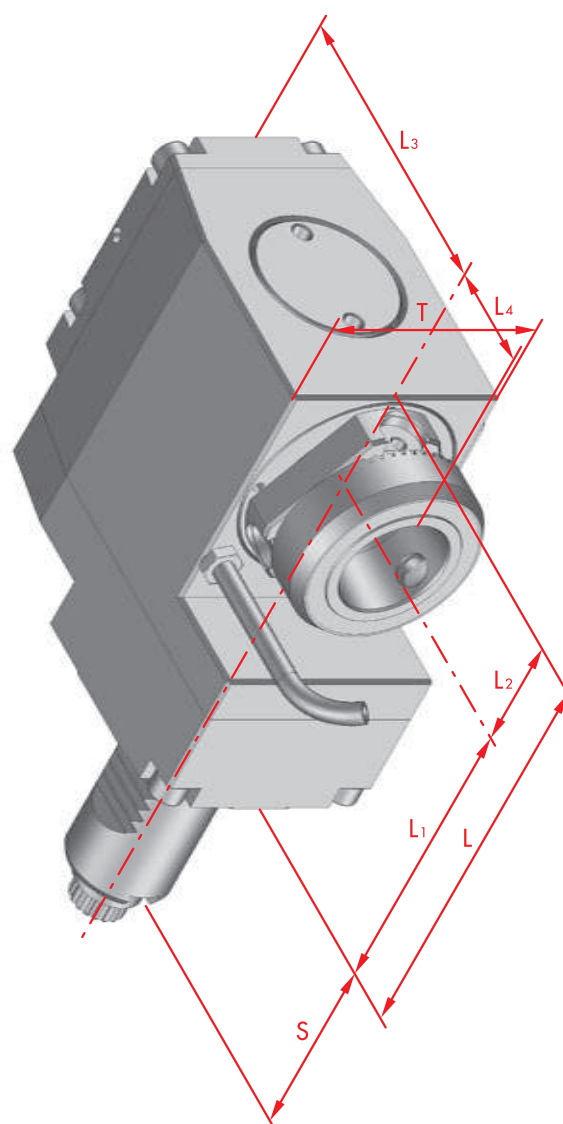
SAUTER

with Drive

DIN 5480
(W 16 x 0,8 x 30 x 18 / 9b)

Dimensions

Revolver type	Star-type Turret
Shank	VDI 30
Drive	DIN 5480 with spindle orientation detent (Patent Sauter) W 16x0,8x30x18 / 9b Ø 15,9 mm



Order No.	Tool holder	Clamping range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	L mm	L1 mm	L2 mm	L3 mm	L4 mm	S mm	T mm
103526	ER 25	0,5-16	25 Nm	6.500 / 6.500	i = 1:1	external	119	85	34	76,5	20	55	68
103565	ER 25	0,5-16	25 Nm	6.500 / 6.500	i = 1:1	internal	119	85	34	88,4	20	55	68
169191	mi 40		25 Nm	6.500 / 6.500	i = 1:1	internal	117	85	32	91	33	55	64
103551	ER 25	0,5-16	25 Nm	6.500 / 6.500	i = 1:1	external	134	100	34	76,5	20	55	68
103517	ER 25	0,5-16	25 Nm	6.500 / 6.500	i = 1:1	internal	134	100	34	88,4	20	55	68

Angle Unit, 2-Axis

for Turret Manufacturer

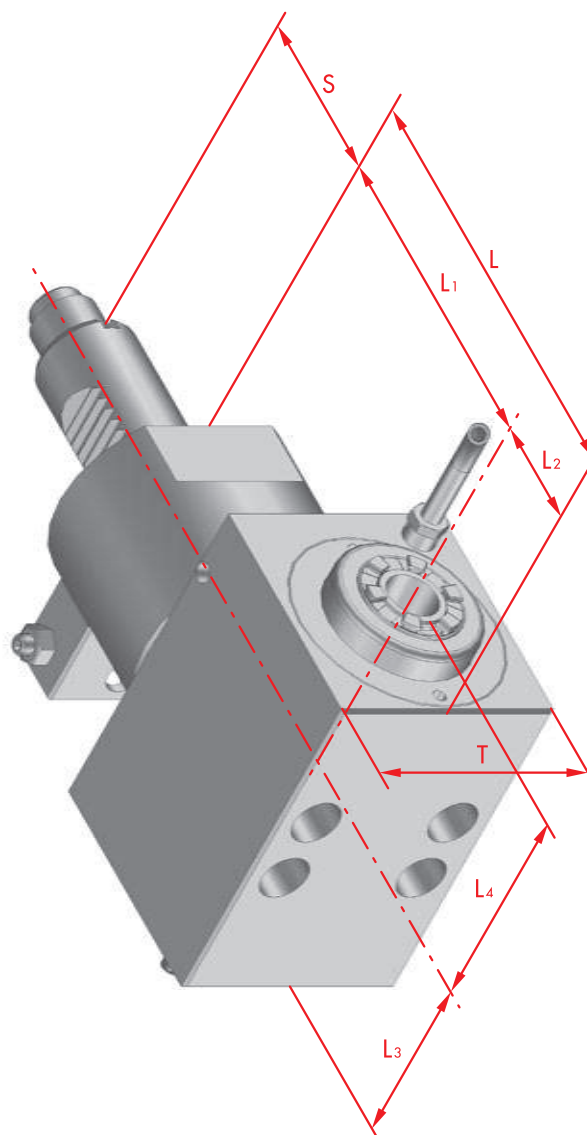
SAUTER

with Drive

DIN 5480
(W 16 x 0,8 x 30 x 18 / 9b)

Dimensions

Revolver type	Star-type Turret
Shank	VDI 30
Drive	DIN 5480
	with spindle orientation
	detent (Patent Sauter)
	W 16x0,8x30x18 / 9b
	Ø 15,9 mm



Order No.	Tool holder	Clamping range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	L mm	L1 mm	L2 mm	L3 mm	L4 mm	S mm	T mm
103622	2 x ER 25	0,5-16	20 Nm	6.500 / 6.500	i = 1:1	external	119	85	34	62	62	55	70
103556	2 x ER 25	0,5-16	20 Nm	6.500 / 6.500	i = 1:1	external	134	100	34	62	62	55	70

Angle Unit, adjustable 0-100°

for Turret Manufacturer	
	
with Drive	
DIN 5480 (W 16 x 0,8 x 30 x 18 / 9b)	
Dimensions	
Revolver type	Star-type Turret
Shank	VDI 30
Drive	DIN 5480 with spindle orientation detent (Patent Sauter) W 16x0,8x30x18 / 9b Ø 15,9 mm

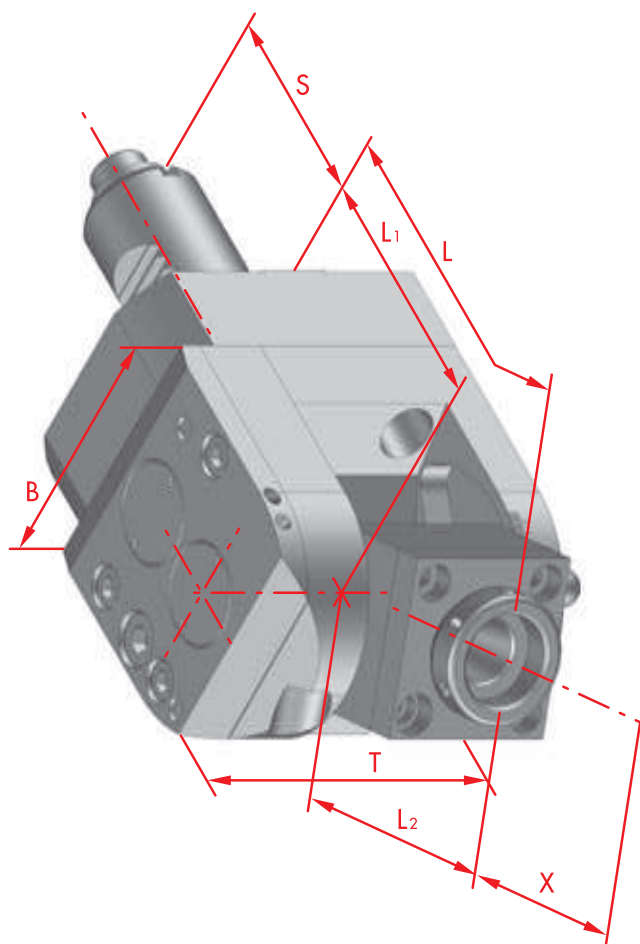


Illustration shows
right version

Order No.	Tool holder	Clamping range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	X mm	L mm	L1 mm	L2 mm	B mm	S mm	T mm
right version:													
103566	ER 16	0,5-10	6 Nm	6.500 / 6.500	i = 1:1	external	-	138	73,5	64,5	68	55	80,5
left version:													
125008	ER 16	0,5-10	6 Nm	6.500 / 6.500	i = 1:1	external	-	138	73,5	64,5	68	55	80,5

Saw Blade Holder

for Turret Manufacturer

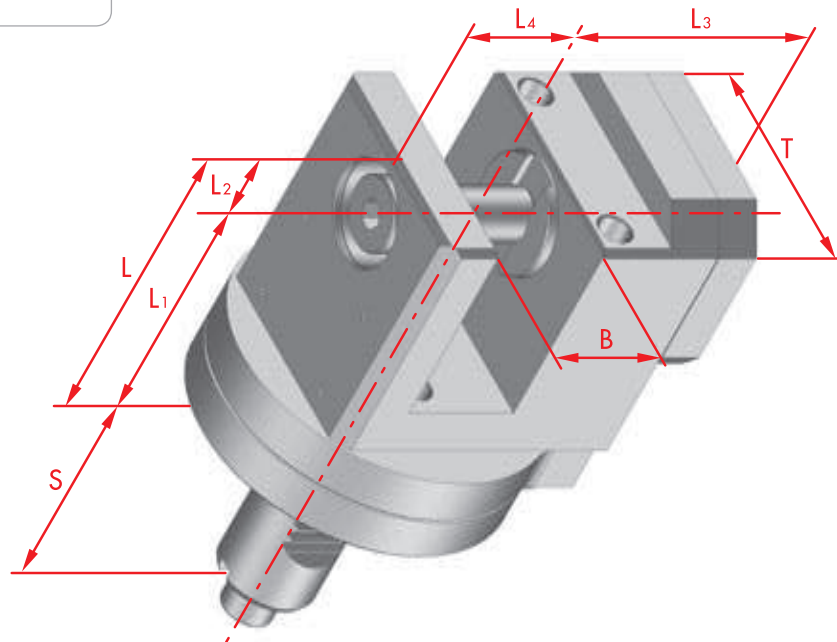
SAUTER

with Drive

DIN 5480
(W 16 x 0,8 x 30 x 18 / 9b)

Dimensions

Revolver type	Star-type Turret
Shank	VDI 30
Drive	DIN 5480 with spindle orientation detent (Patent Sauter) W 16x0,8x30x18 / 9b Ø 15,9 mm



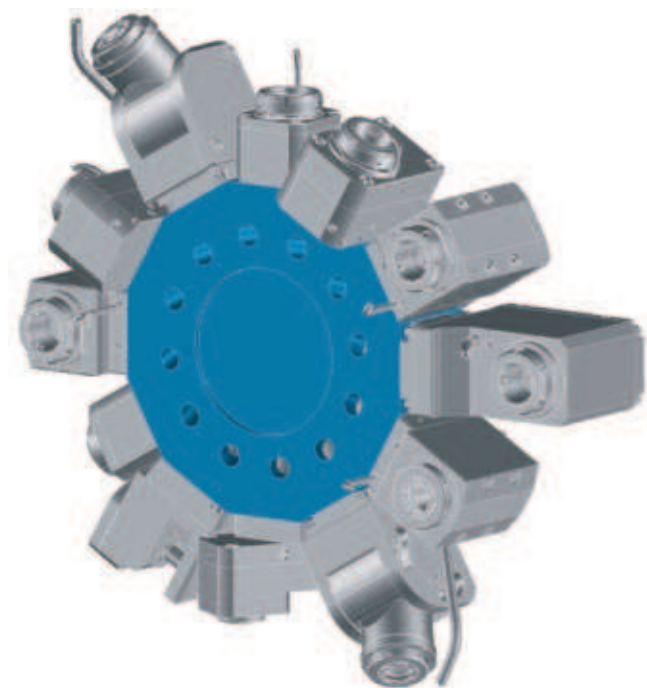
Order No.	Fitting dia. mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	L mm	L1 mm	L2 mm	L3 mm	L4 mm	B mm	S mm	T mm
133767	16	20 Nm	6.500 / 2.450	i = 2,66:1	external	115	85	30	78	36	25	55	104

Data

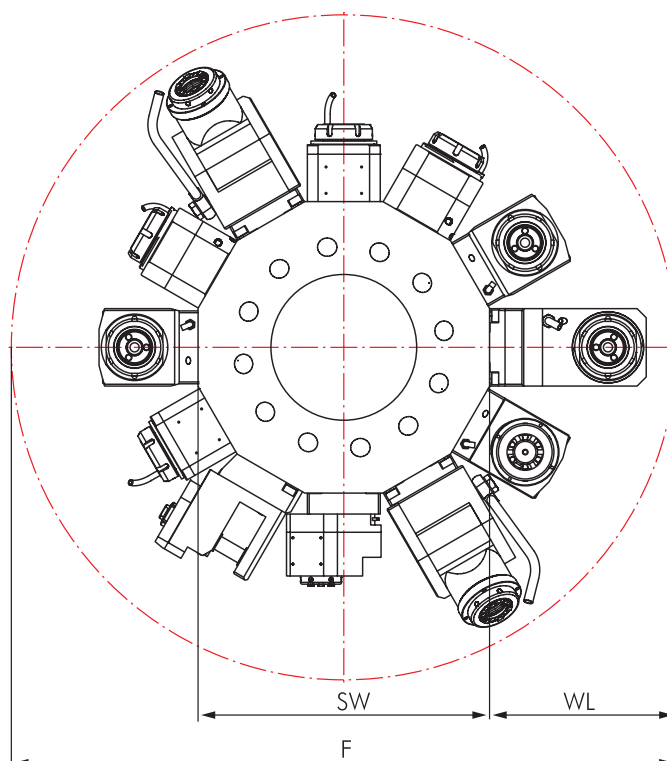
Star-type Turret	Turret Stations
Drive	DIN 5480 (W20x0,8x30x24/9b)



Star-type Turret VDI 40



Interference Circles



The interference circles are depending on your CNC machine.
You can find it in your machine instruction manuals.

Driven Toolholders

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Accessories		Collets DIN 6499 Threading Collets Wrenches Clamping Nuts Sleeves and Bushings	317 317 317 317 318



Straight Unit

for Turret Manufacturer

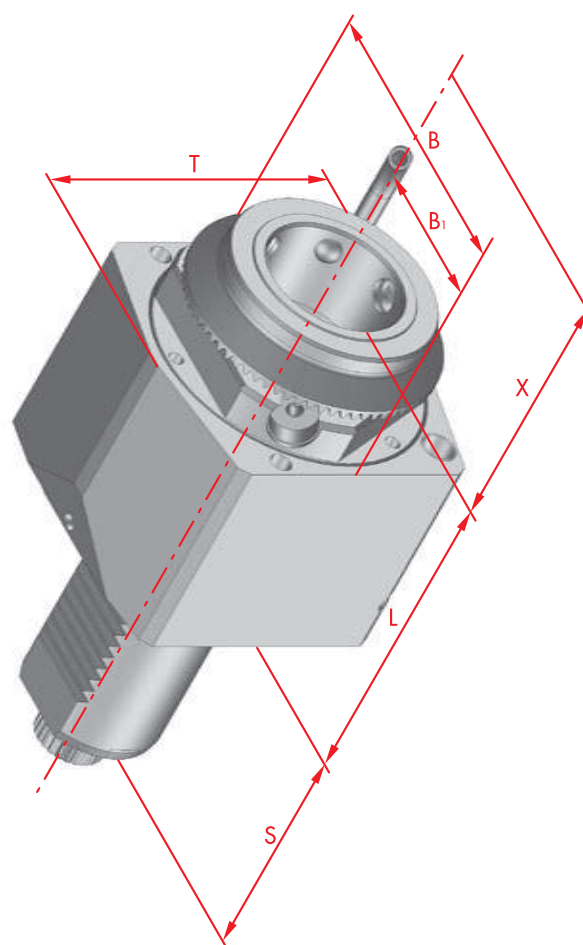
SAUTER

with Drive

DIN 5480
(W 20 x 0,8 x 30 x 24 / 9b)

Dimensions

Revolver type	Star-type Turret
Shank	VDI 40
Drive	DIN 5480 with spindle orientation detent (Patent Sauter) W 20x0,8x30x24 / 9b Ø 19,84 mm



Order No.	Tool holder	Clamping range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	X mm	L mm	B mm	B1 mm	S mm	T mm
133778	ER 32	1,0-20	80 Nm	6.500 / 6.500	i = 1:1	external	-	80	80	40	63	80
133740	ER 32	1,0-20	80 Nm	6.500 / 6.500	i = 1:1	internal	-	80	89	40	63	80
133743	mi 50	0,5-20	80 Nm	6.500 / 6.500	i = 1:1	internal	-	92	84	42	63	84
124161	HF 20	1,0-20	80 Nm	6.500 / 6.500	i = 1:1	internal	-	83	89	40	63	80

Angle Unit, Right-hand Version

for Turret Manufacturer

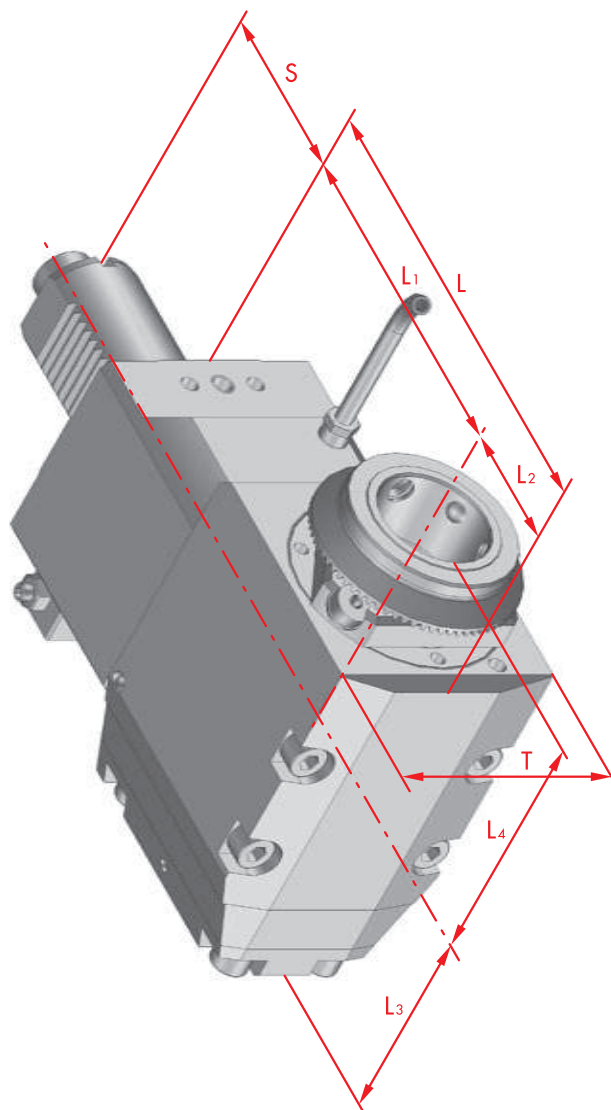
SAUTER

with Drive

DIN 5480
(W 20 x 0,8 x 30 x 24 / 9b)

Dimensions

Revolver type	Star-type Turret
Shank	VDI 40
Drive	DIN 5480 with spindle orientation detent (Patent Sauter) W 20x0,8x30x24 / 9b Ø 19,84 mm



Order No.	Tool holder	Clamping range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	L mm	L1 mm	L2 mm	L3 mm	L4 mm	S mm	T mm
133765	ER 32	1,0-20	80 Nm	5.400 / 5.400	i = 1:1	external	139	100	39	69,0	70	63	85
133780	ER 32	1,0-20	80 Nm	5.400 / 5.400	i = 1:1	internal	139	100	39	75,5	70	63	85
133754	mi 50		80 Nm	5.400 / 5.400	i = 1:1	internal	143	100	43	75,5	88	63	80
133748	ER 32	1,0-20	80 Nm	5.400 / 5.400	i = 1:1	external	159	120	39	69,0	70	63	85
133773	ER 32	1,0-20	80 Nm	5.400 / 5.400	i = 1:1	internal	159	120	39	75,5	70	63	85
133757	mi 50		80 Nm	5.400 / 5.400	i = 1:1	internal	163	120	43	75,5	88	63	80
101568	ER 25	0,5-16	20 Nm	6.000 / 12.000	i = 1:2	internal	159	120	39	72,5	75	63	85
133802	HF 20	6,0-20	20 Nm	6.500 / 13.000	i = 1:2	internal	139	100	39	72,5	92	63	85

Angle Unit, Left-hand Version

for Turret Manufacturer

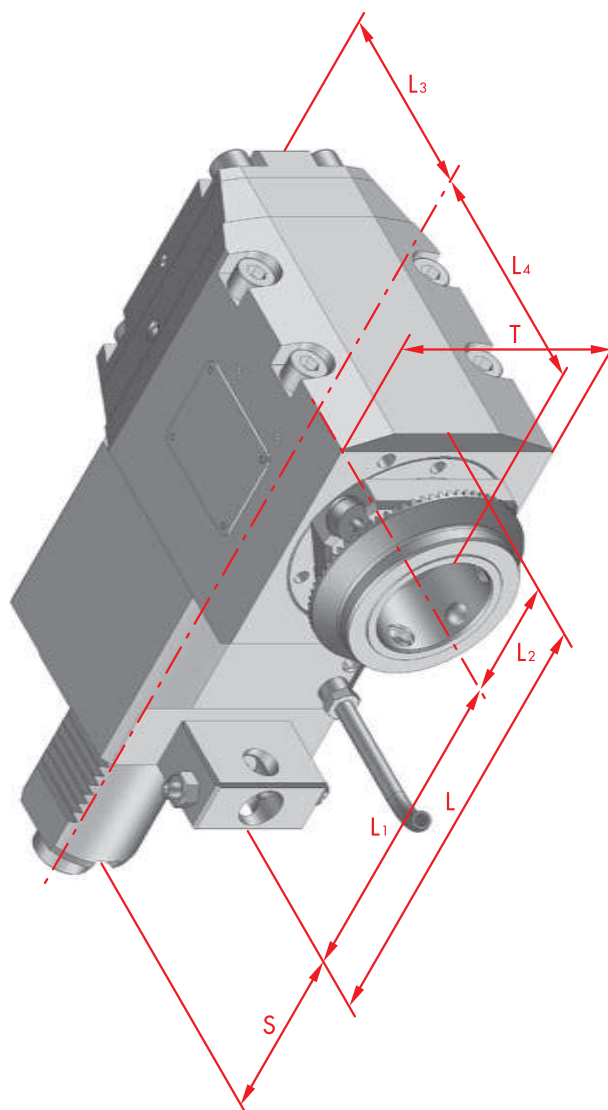
SAUTER

with Drive

DIN 5480
(W 20 x 0,8 x 30 x 24 / 9b)

Dimensions

Revolver type	Star-type Turret
Shank	VDI 40
Drive	DIN 5480 with spindle orientation detent (Patent Sauter) W 20x0,8x30x24 / 9b Ø 19,84 mm



Order No.	Tool holder	Clamping range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	L mm	L1 mm	L2 mm	L3 mm	L4 mm	S mm	T mm
133741	ER 32	1,0-20	80 Nm	5.400 / 5.400	i = 1:1	external	139	100	39	69,0	70	63	85
133779	ER 32	1,0-20	80 Nm	5.400 / 5.400	i = 1:1	internal	139	100	39	75,5	70	63	85
133744	mi 50		80 Nm	5.400 / 5.400	i = 1:1	internal	143	100	43	75,5	88	63	80
103561	ER 32	1,0-20	80 Nm	5.400 / 5.400	i = 1:1	external	159	120	39	69,0	70	63	85
133776	ER 32	1,0-20	80 Nm	5.400 / 5.400	i = 1:1	internal	159	120	39	75,5	70	63	85
133768	mi 50		80 Nm	5.400 / 5.400	i = 1:1	internal	163	120	43	75,5	88	63	80
133802	HF 20	6,0-20	20 Nm	6.500 / 13.000	i = 1:2	internal	139	100	39	72,5	92	63	85

Angle Unit, Offset type, Right-hand Version

for Turret Manufacturer

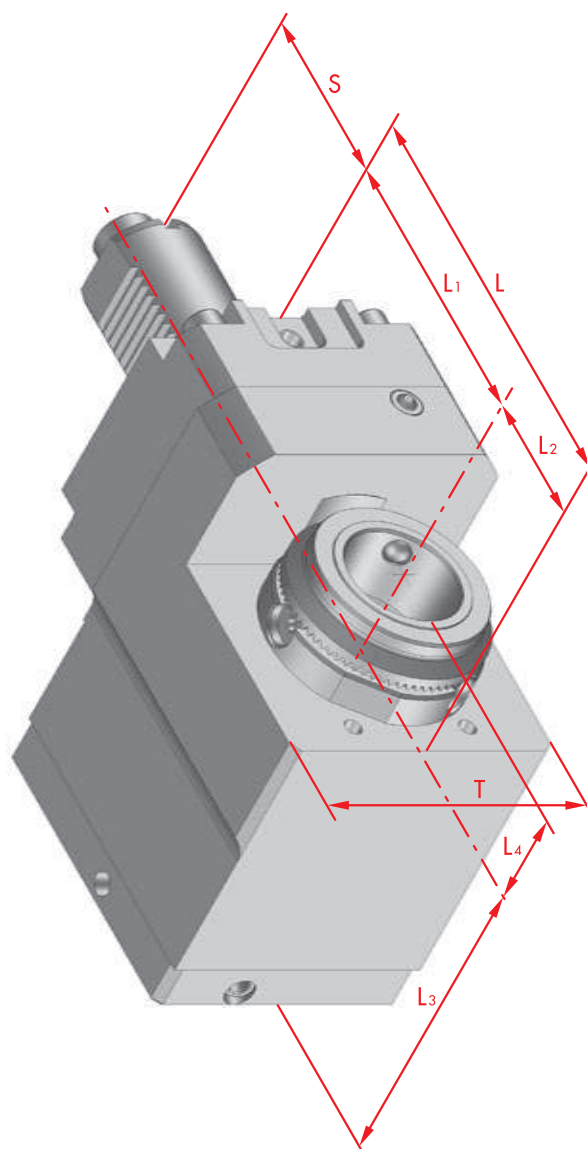
SAUTER

with Drive

DIN 5480
(W 20 x 0,8 x 30 x 24 / 9b)

Dimensions

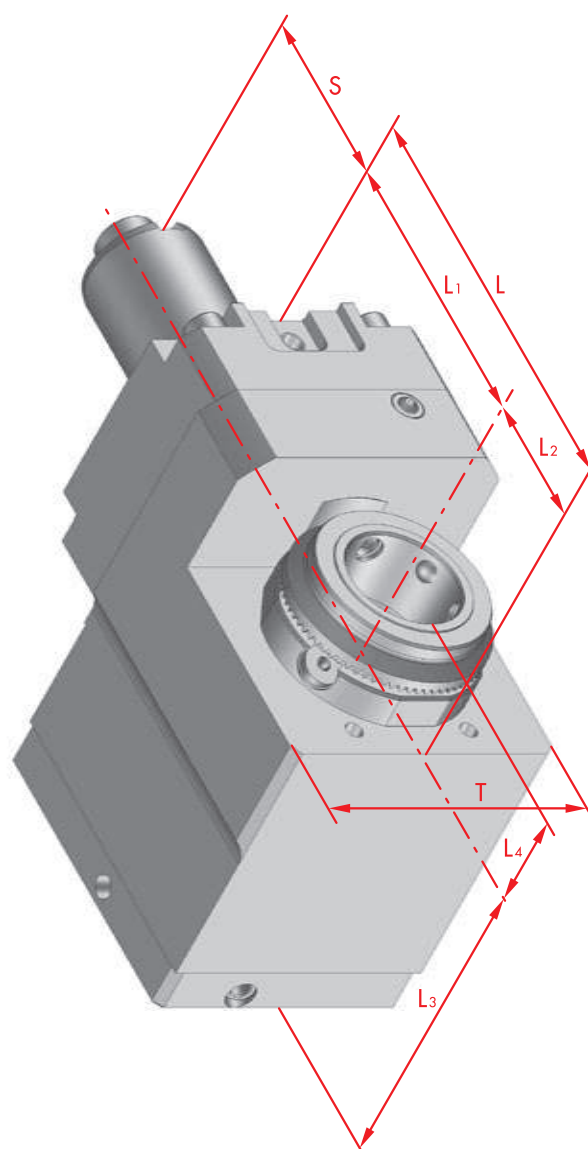
Revolver type	Star-type Turret
Shank	VDI 40
Drive	DIN 5480 with spindle orientation detent (Patent Sauter) W 20x0,8x30x24 / 9b Ø 19,84 mm



Order No.	Tool holder	Clamping range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	L mm	L1 mm	L2 mm	L3 mm	L4 mm	S mm	T mm
133759	ER 32	1,0-20	80 Nm	5.400 / 5.400	i = 1:1	external	142	100	42	111,0	20	63	85
133774	ER 32	1,0-20	80 Nm	5.400 / 5.400	i = 1:1	internal	142	100	42	111,0	20	63	85
133782	mi 50		80 Nm	4.000 / 4.000	i = 1:1	internal	145	100	45	107,5	31	63	96
103552	ER 32	1,0-20	80 Nm	5.400 / 5.400	i = 1:1	external	162	120	42	111,0	20	63	85
103540	ER 32	1,0-20	80 Nm	5.400 / 5.400	i = 1:1	internal	162	120	42	111,0	20	63	85
103553	mi 50		80 Nm	4.000 / 4.000	i = 1:1	internal	165	120	45	107,5	31	63	96

Angle Unit, Offset type, Left-hand Version

for Turret Manufacturer	
	
with Drive	
DIN 5480 (W 20 x 0,8 x 30 x 24 / 9b)	
Dimensions	
Revolver type	Star-type Turret
Shank	VDI 40
Drive	DIN 5480 with spindle orientation detent (Patent Sauter) W 20x0,8x30x24 / 9b Ø 19,84 mm



Order No.	Tool holder	Clamping range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	L mm	L1 mm	L2 mm	L3 mm	L4 mm	S mm	T mm
133781	ER 32	1,0-20	80 Nm	5.400 / 5.400	i = 1:1	external	142	100	42	111,0	20	63	85
133758	ER 32	1,0-20	80 Nm	5.400 / 5.400	i = 1:1	internal	142	100	42	111,0	20	63	85
103572	mi 50		80 Nm	4.000 / 4.000	i = 1:1	internal	145	100	45	107,5	31	63	96
103567	ER 32	1,0-20	80 Nm	5.400 / 5.400	i = 1:1	external	162	120	42	111,0	20	63	85
103548	ER 32	1,0-20	80 Nm	5.400 / 5.400	i = 1:1	internal	162	120	42	111,0	20	63	85
103584	mi 50		80 Nm	4.000 / 4.000	i = 1:1	internal	165	120	45	107,5	31	63	96

Angle Unit, 2-Axis

for Turret Manufacturer

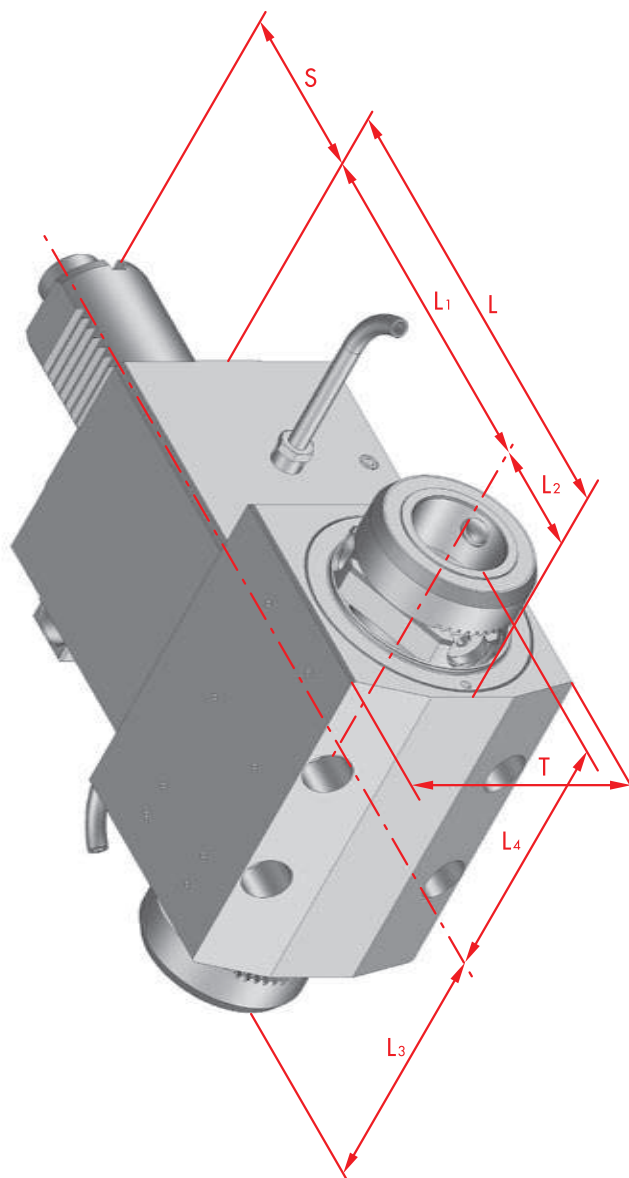
SAUTER

with Drive

DIN 5480
(W 20 x 0,8 x 30 x 24 / 9b)

Dimensions

Revolver type	Star-type Turret
Shank	VDI 40
Drive	DIN 5480 with spindle orientation detent (Patent Sauter) W 20x0,8x30x24 / 9b Ø 19,84 mm



Order No.	Tool holder	Clamping range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	L mm	L1 mm	L2 mm	L3 mm	L4 mm	S mm	T mm
103585	2 x ER 25	0,5-16	20 Nm	6.500 / 6.500	i = 1:1	external	154	120	34	62	62	63	70
103593	2 x mi 40		20 Nm	6.500 / 6.500	i = 1:1	external	154	120	34	88	88	63	70

Angle Unit, adjustable 0-100°

for Turret Manufacturer

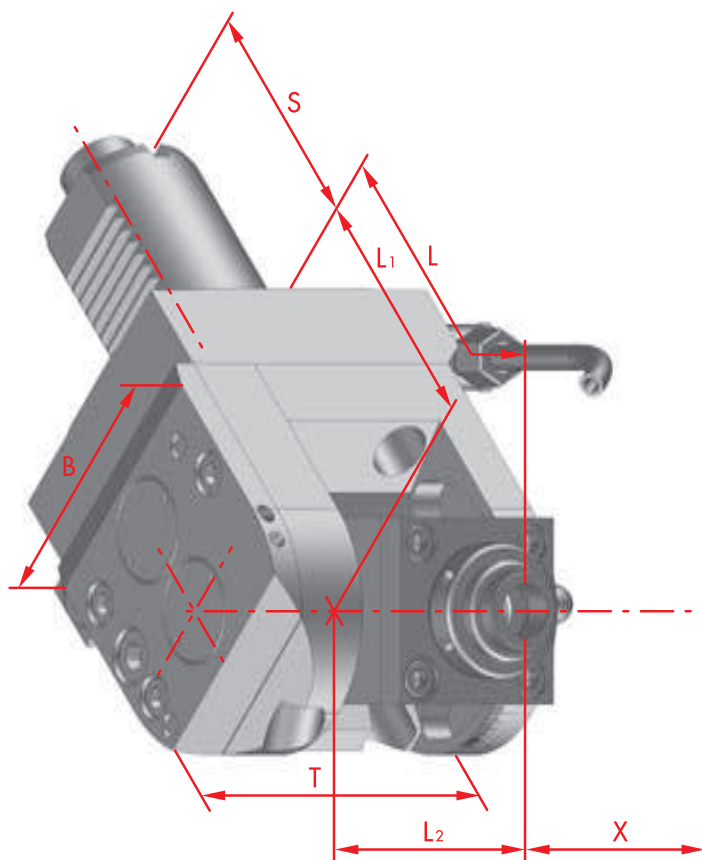
SAUTER

with Drive

DIN 5480
(W 20 x 0,8 x 30 x 24 / 9b)

Dimensions

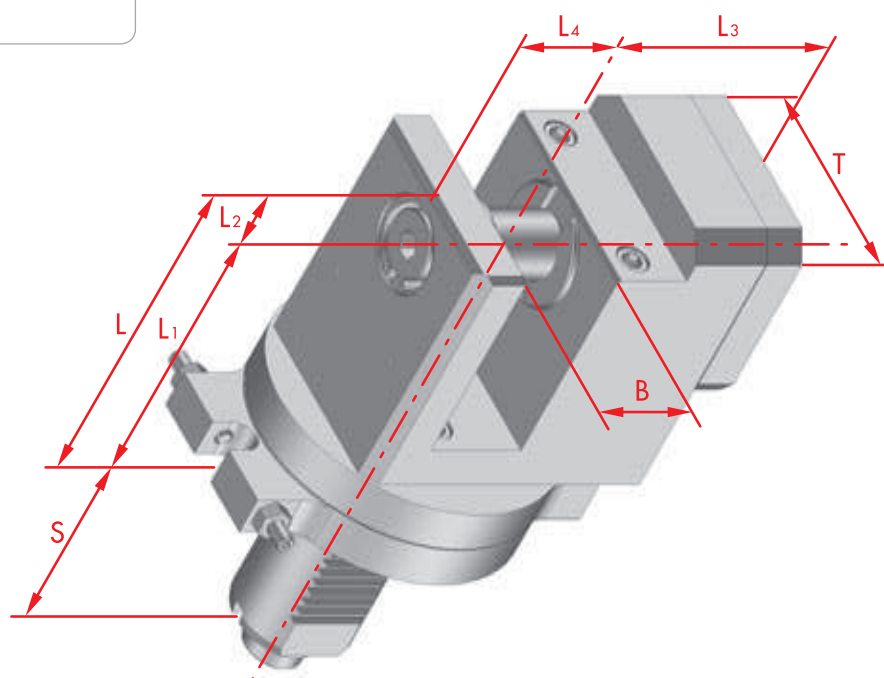
Revolver type	Star-type Turret
Shank	VDI 40
Drive	DIN 5480 with spindle orientation detent (Patent Sauter) W 20x0,8x30x24 / 9b Ø 19,84 mm



Order No.	Tool holder	Clamping range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	X mm	L mm	L1 mm	L2 mm	B mm	S mm	T mm
103541	ER 16	0,5-10	6 Nm	6.500 / 6.500	i = 1:1	external	-	134,5	73,5	61	68	63	80,5
125010	ER 25	1,0-16	35 Nm	6.000 / 6.000	i = 1:1	external	-	178	88	93	102	63	96

Saw Blade Holder

for Turret Manufacturer	
	
with Drive	
DIN 5480 (W 20 x 0,8 x 30 x 24 / 9b)	
Dimensions	
Revolver type	Star-type Turret
Shank	VDI 40
Drive	DIN 5480 with spindle orientation detent (Patent Sauter) W 20x0,8x30x24 / 9b Ø 19,84 mm



Order No.	Fitting dia. mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	L mm	L1 mm	L2 mm	L3 mm	L4 mm	B mm	S mm	T mm
133749	22	40 Nm	6.500 / 2.450	i = 2,66:1	external	130	95	35	87,5	36	25	63	72

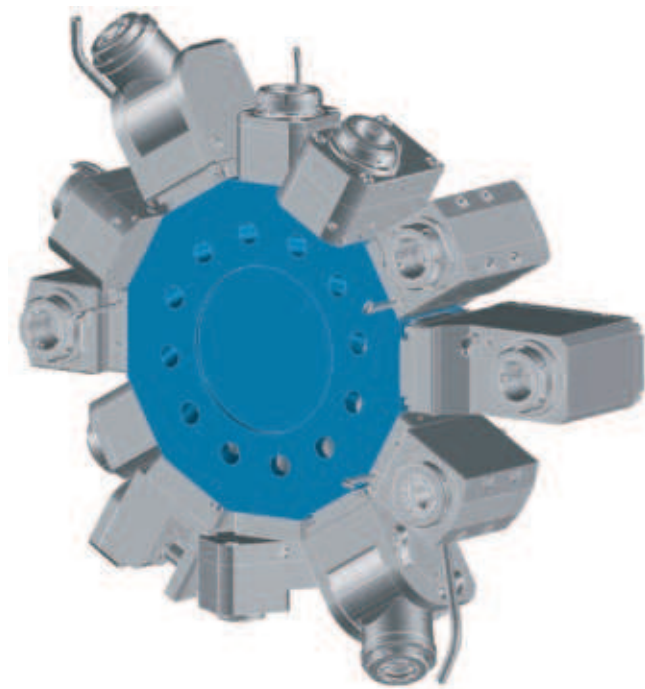
VL 3/5 + VSC 200/250

Data

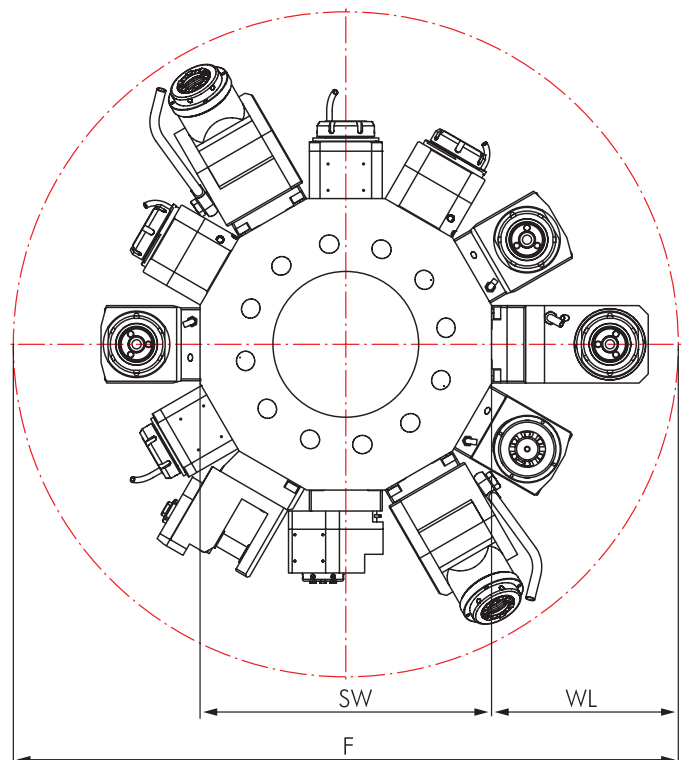
Machine type Series		Turret Stations
VL	3	12
VL	5	12
VSC	200	12
VSC	250	12



Star-type Turret VDI 40

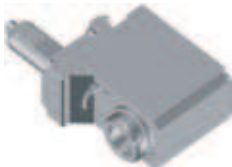


Interference Circles



Machine type Series	F	SW	WL
VL 3/5	700	360	170
VSC 200	740	360	190
VSC 250	760	360	200

Driven Toolholders

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Angle Unit 	238	Saw Blade Holder 	241

Options and Accessories

mi Toolholders		mi System Description Toolholders Accessories	283 287-291 290-292
Standard VDI Toolholders		VDI Toolholders Accessories	310-316 317-318
Accessories		Collets DIN 6499 Threading Collets Wrenches Clamping Nuts Sleeves and Bushings	317 317 317 317 318



Straight Unit

for Manufacturer

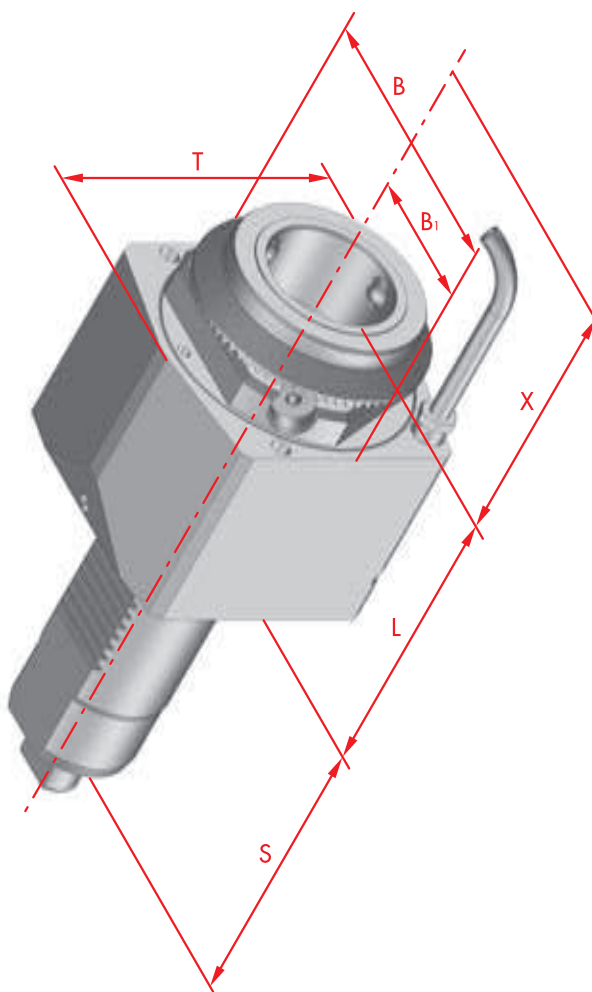


for Machine type

VL 3/5
VSC 200/250

Dimensions

Turret type	Star-type Turret
Shank	VDI 40
Drive	Tang
SW	10,95 mm



Order No.	Tool holder	Clamping range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	X mm	L mm	B mm	B1 mm	S mm	T mm	EMAG Ref. #
123916	ER 32	1,0-20	80 Nm	6.500 / 6.500	i = 1:1	external	-	80	80	40	85	89	374 8662
124305	ER 32	1,0-20	80 Nm	6.500 / 6.500	i = 1:1	internal	-	80	80	40	85	89	374 8530
124315	mi 50		80 Nm	6.500 / 6.500	i = 1:1	internal	-	92	84	42	85	84	-
124311	mi 40		80 Nm	6.500 / 6.500	i = 1:1	internal	-	92	84	42	85	84	-
124285	Hydro-Flex 20	6,0-20	80 Nm	6.500 / 6.500	i = 1:1	internal	-	85	80	40	85	89	678 8962
123947	ER 25	0,5-16	50 Nm	5.000 / 10.000	i = 1:2	external	-	155	90	40	85	120	398 6528

Straight Unit, Offset type

for Manufacturer

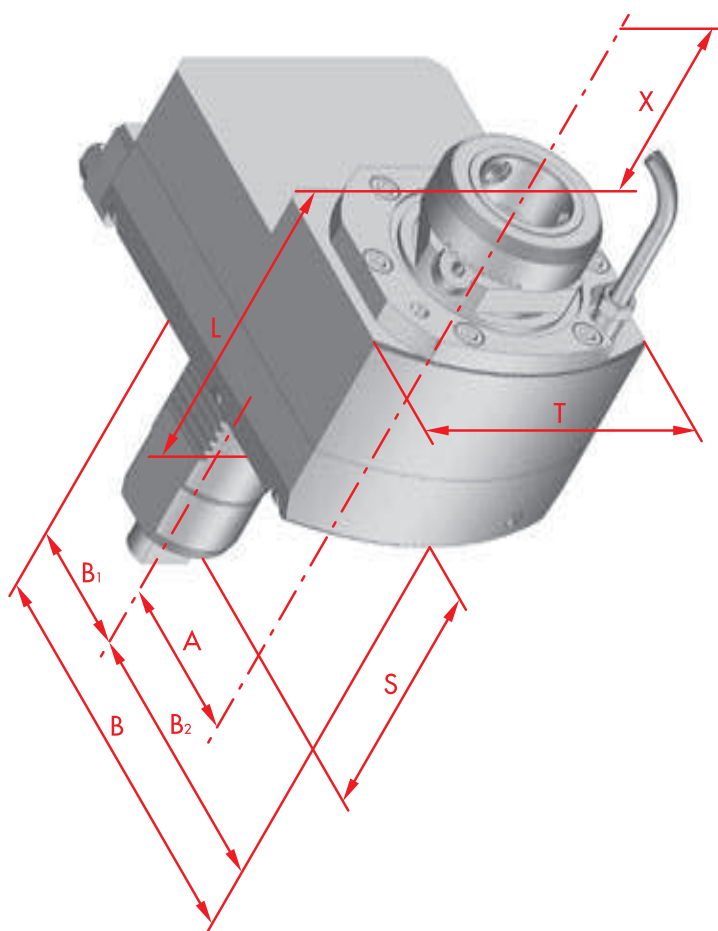


for Machine type

VL 3/5
VSC 200/250

Dimensions

Turret type	Star-type Turret
Shank	VDI 40
Drive	Tang
SW	10,95 mm



Order No.	Tool holder	Clamping range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	X mm	L mm	A mm	B mm	B1 mm	B2 mm	S mm	T mm	EMAG Ref. #
124069	ER 25	0,5-16	50 Nm	5.000 / 10.000	i = 1:2	external	-	94	60	150	100	50	85	100	-
123720	ER 25	0,5-16	50 Nm	6.000 / 12.000	i = 1:2	internal	-	94	60	150	100	50	85	100	608 8090
123716	HF 20		40 Nm	6.000 / 12.000	i = 1:2,04	internal	-	105,5	60	150	100	50	85	100	
124077	ER 16	0,5-10	50 Nm	6.000 / 18.000	i = 1:3	external	-	87	60	140	90	50	85	100	
123736	mi 40		40 Nm	3.400 / 10.200	i = 1:3	internal	-	113	60	150	100	50	85	100	

Angle Unit

for Manufacturer

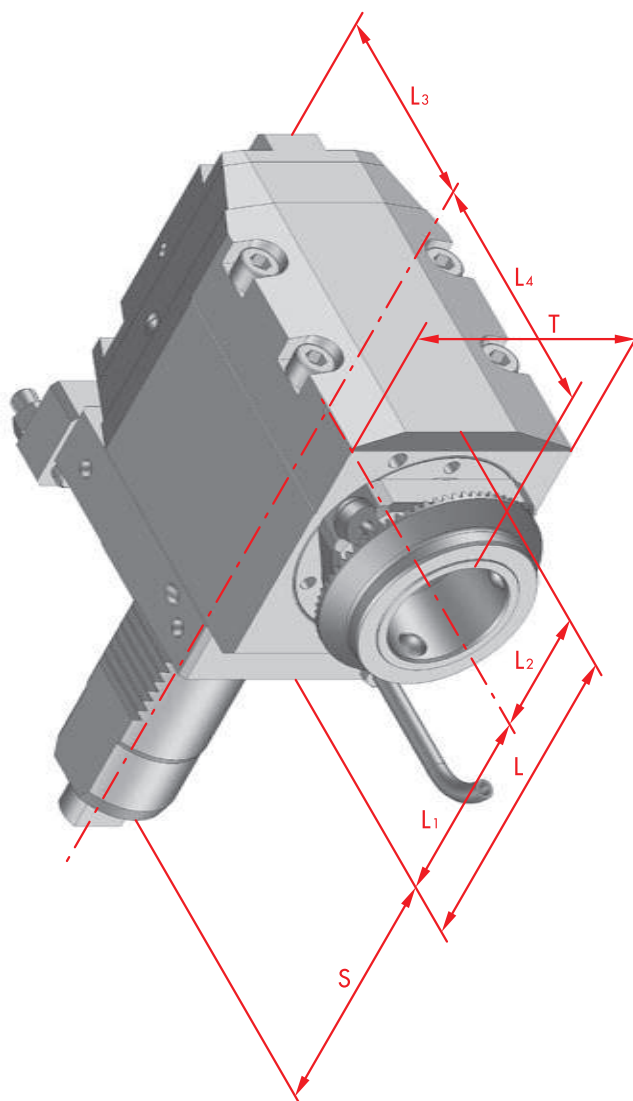


for Machine type

VL 3/5
VSC 200/250

Dimensions

Turret type	Star-type Turret
Shank	VDI 40
Drive	Tang
SW	10,95 mm



Order No.	Tool holder	Clamping range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	L mm	L1 mm	L2 mm	L3 mm	L4 mm	S mm	T mm	EMAG Ref. #
124659	ER 32	1,0-20	50 Nm	6.500 / 6.500	i = 1:1	external	113	70	43	71,0	70,0	85	80	-
124894	ER 32	1,0-20	50 Nm	6.500 / 6.500	i = 1:1	internal	110	70	40	75,5	70,0	85	85	374 8605
124896	mi 50		50 Nm	6.500 / 6.500	i = 1:1	internal	113	70	43	71,0	88	85	80	886 7707
124892	HF 20	6,0-20	50 Nm	5.200 / 5.200	i = 1:1	internal	110	70	40	75,5	82,0	85	85	-
124924	ER 25	0,5-16	20 Nm	6.000 / 12.000	i = 1:2	internal	110	70	40	73,5	75,0	85	80	-
124922	HF 20	6,0-20	20 Nm	6.000 / 12.000	i = 1:2	internal	109	70	39	72,5	92	85	80	

Angle Unit, Offset type

for Manufacturer

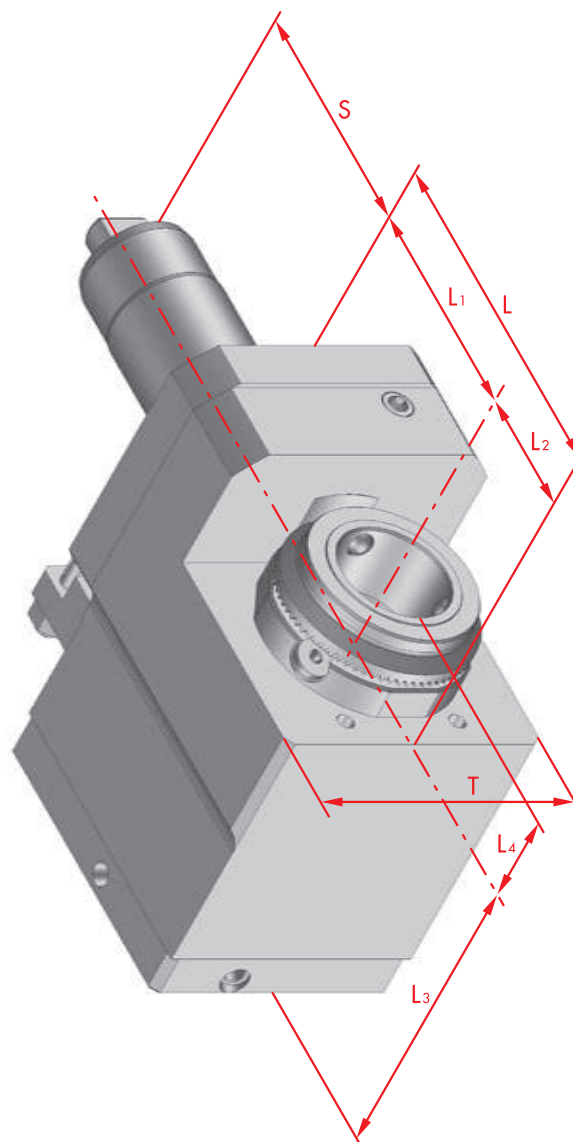


for Machine type

VL 3/5
VSC 200/250

Dimensions

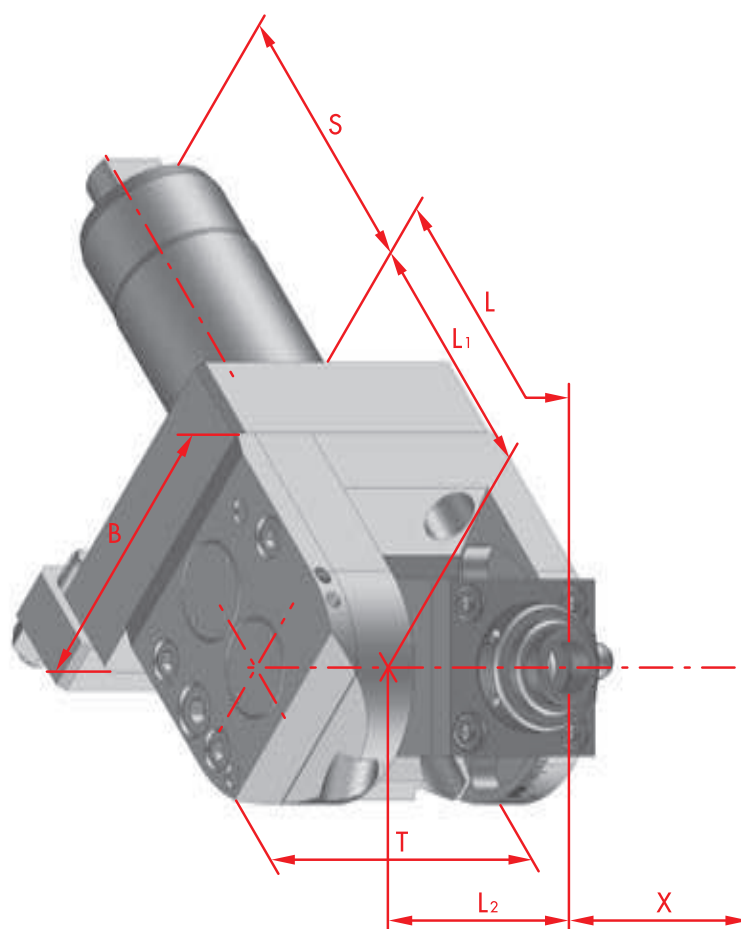
Turret type	Star-type Turret
Shank	VDI 40
Drive	Tang
SW	10,95 mm



Order No.	Tool holder	Clamping range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	L mm	L1 mm	L2 mm	L3 mm	L4 mm	S mm	T mm	EMAG Ref. #
124757	ER 32	1,0-20	80 Nm	6.000 / 6.000	i = 1:1	external	117	75	42	110,0	20	85	84	407 8390
124897	ER 32	1,0-20	80 Nm	6.000 / 6.000	i = 1:1	internal	117	75	42	110,0	20	85	84	379 7222
124443	mi 50		80 Nm	6.000 / 6.000	i = 1:1	internal	125	80	45	107,5	31	85	96	-

Angle Unit, adjustable 0-100°

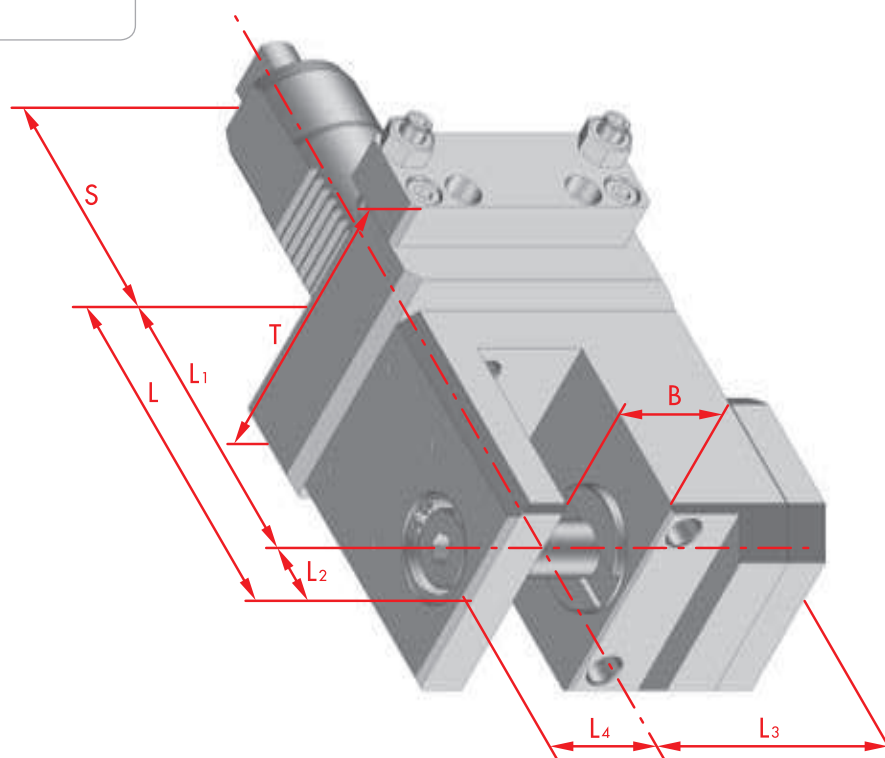
for Manufacturer	
	
for Machine type	
VL 3/5 VSC 200/250	
Dimensions	
Turret type	Star-type Turret
Shank	VDI 40
Drive	Tang
SW	10,95 mm



Order No.	Tool holder	Clamping range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	X mm	L mm	L1 mm	L2 mm	B mm	S mm	T mm	EMAG Ref. #
125035	ER 16	0,5-10	6 Nm	6.500 / 6.500	i = 1:1	external	-	134,5	73,5	61	80,5	85	84	0409.136
125057	ER 16	0,5-10	6 Nm	3.500 / 14.000	i = 1:4	external	-	134,5	73,5	61	80,5	85	84	628 6256

Saw Blade Holder

for Manufacturer	
	
for Machine type	
VL 3/5 VSC 200/250	
Dimensions	
Turret type	Star-type Turret
Shank	VDI 40
Drive	Tang
SW	10,95 mm



Order No.	Fitting dia. mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Kühlung	L mm	L1 mm	L2 mm	L3 mm	L4 mm	B mm	S mm	T mm	EMAG Ref. #
125115	16	20 Nm	6.500 / 2.450	i = 2,66:1	external	115	85	20,5	68	36	30	85	84	394 0178
125116	22	20 Nm	6.500 / 2.450	i = 2,66:1	external	115	85	20,5	68	36	25	85	84	-
125124	22	40 Nm	6.500 / 2.450	i = 2,66:1	external	130	95	20,5	78	36	25	85	84	-

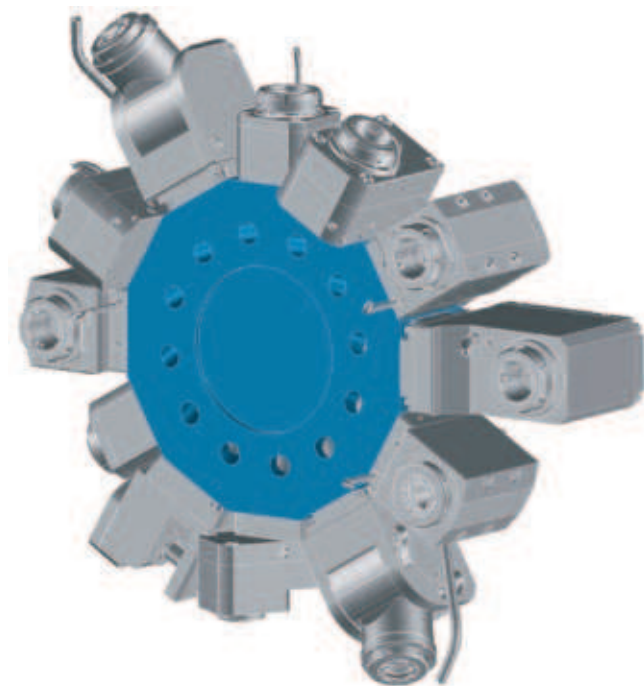
VSC 315/400/500

Data

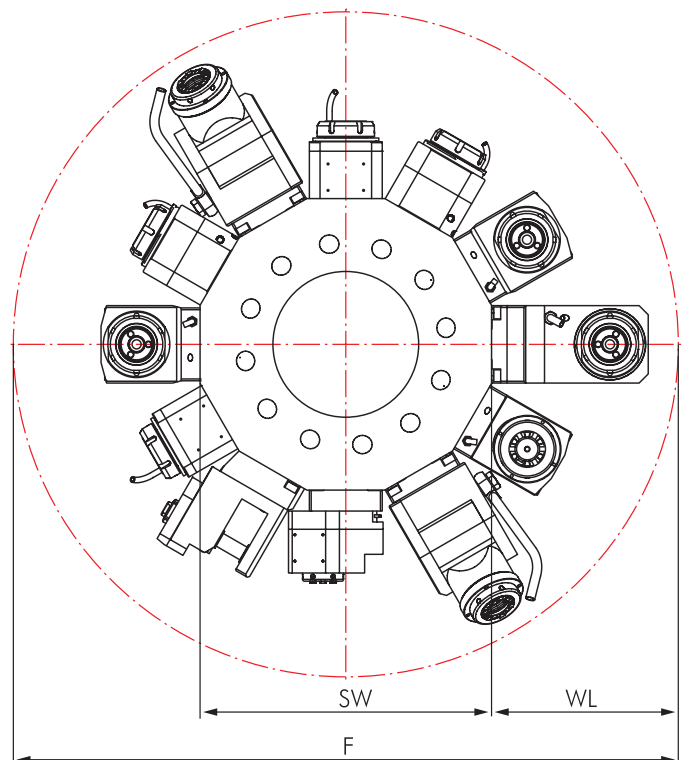
Machine type Series		Turret Stations
VSC	315	12
VSC	400	12
VSC	500	12



Star-type Turret VDI 50

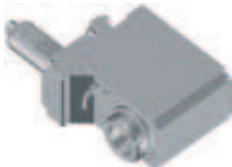


Interference Circles



Machine type Series	F	SW	WL
VSC 315			
VSC 400	840	440	200
VSC 500	940	440	250

Driven Toolholders

	Page		Page		
Straight Unit		244	Angle Unit, Offset type		246
Angle Unit		245	Angle Unit, adjustable 0-100°		247
			Saw Blade Holder		248

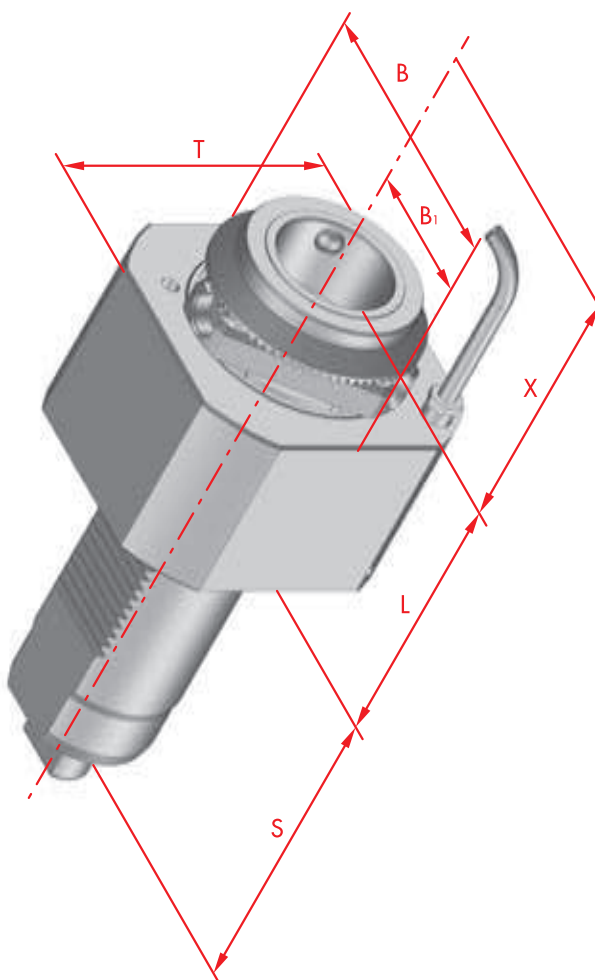
Options and Accessories

mi Toolholders		mi System Description Toolholders Accessories	283 287-291 290-292
Standard VDI Toolholders		VDI Toolholders Accessories	310-316 317-318
Accessories		Collets DIN 6499 Threading Collets Wrenches Clamping Nuts Sleeves and Bushings	317 317 317 317 318



Straight Unit

for Manufacturer	
	
for Machine type	
VSC 315/400/500	
Dimensions	
Turret type	Star-type Turret
Shank	VDI 50
Drive	Tang
SW	12,95 mm



Order No.	Tool holder	Clamping range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	X mm	L mm	B mm	B1 mm	S mm	T mm	EMAG Ref. #
123930	ER 32	1,0-20	80 Nm	6.000 / 6.000	i = 1:1	external	-	95	96	48	98	96	374 8670
124329	ER 32	1,0-20	80 Nm	6.000 / 6.000	i = 1:1	internal	-	95	96	48	98	96	374 8563
124332	mi 50		80 Nm	6.500 / 6.500	i = 1:1	internal	-	92	96	48	98	96	886 9265
123949	ER 25	0,5-16	50 Nm	5.000 / 10.000	i = 1:2	external	-	153,5	120	40	98	90	-
124331	ER 40	1,0-25	80 Nm	6.000 / 6.000	i = 1:1	internal	-	110	96	48	98	96	
123925	HF 20		80 Nm	6.000 / 6.000	i = 1:1	external	-	96	96	48	98	96	
124321	HF 20		80 Nm	6.000 / 6.000	i = 1:1	internal	-	96	96	48	98	96	
124322	HF 25		80 Nm	6.000 / 6.000	i = 1:1	internal	-	87,5	96	48	98	96	

Angle Unit

for Manufacturer

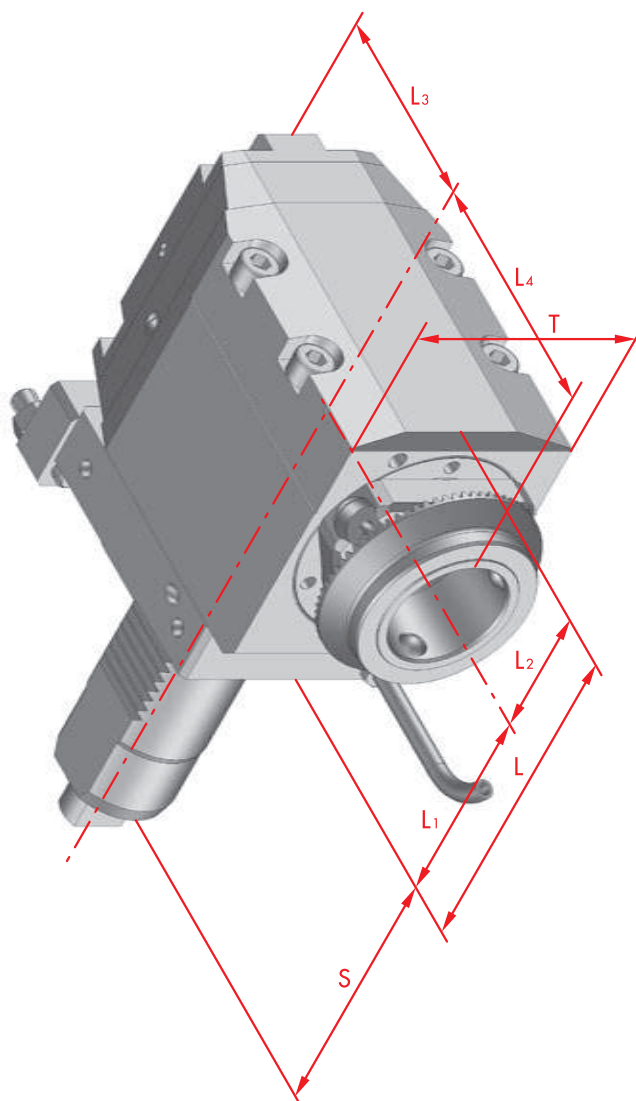


for Machine type

VSC 315/400/500

Dimensions

Turret type	Star-type Turret
Shank	VDI 50
Drive	Tang
SW	12,95 mm



Order No.	Tool holder	Clamping range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	L mm	L1 mm	L2 mm	L3 mm	L4 mm	S mm	T mm	EMAG Ref. #
124668	ER 32	1,0-20	80 Nm	6.000 / 6.000	i = 1:1	external	119	80	39	69,0	70	98	88	-
124900	ER 32	1,0-20	80 Nm	5.200 / 5.200	i = 1:1	internal	119	80	39	75,5	70	98	88	374 8621
101551	mi 50		80 Nm	6.500 / 6.500	i = 1:1	internal	119	80	39	75,5	88	98	88	-
124699	ER 25	0,5-16	25 Nm	5.000 / 10.000	i = 1:2	external	114	80	34	40,0	78	98	88	-
124901	ER 40	1,0-25	80 Nm	6.000 / 6.000	i = 1:1	internal	139	100	39	75,5	107	98	100	
124926	ER 25	0,5-16	20 Nm	6.000 / 12.000	i = 1:2	internal	119	80	39	72,5	75	98	90,5	
124925	HF 20	6,0-20	20 Nm	6.000 / 12.000	i = 1:2	internal	119	80	39	72,5	92	98	90,5	

Angle Unit, Offset type

for Manufacturer

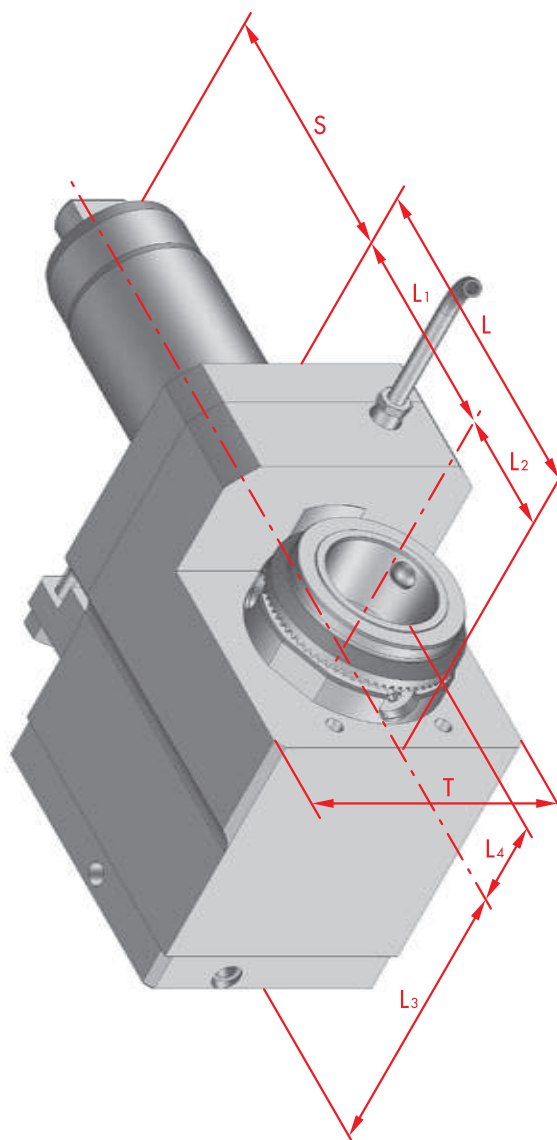


for Machine type

VSC 315/400/500

Dimensions

Turret type	Star-type Turret
Shank	VDI 50
Drive	Tang
SW	12,95 mm



Order No.	Tool holder	Clamping range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	L mm	L1 mm	L2 mm	L3 mm	L4 mm	S mm	T mm	EMAG Ref. #
124445	ER 32	1,0-20	80 Nm	6.000 / 6.000	i = 1:1	internal	117	75	42	115,5	20	98	86	409 2991
124446	mi 50		100 Nm	4.000 / 4.000	i = 1:1	internal	125	80	45	107,5	31	98	96	

Angle Unit, adjustable 0-90°

for Manufacturer

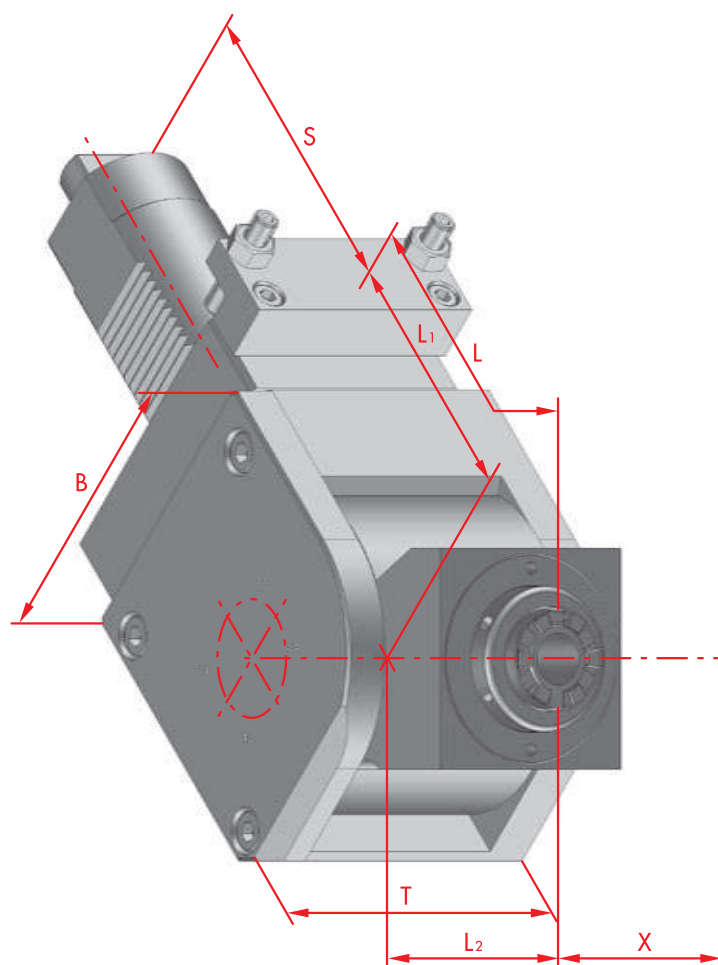


for Machine type

VSC 315/400/500

Dimensions

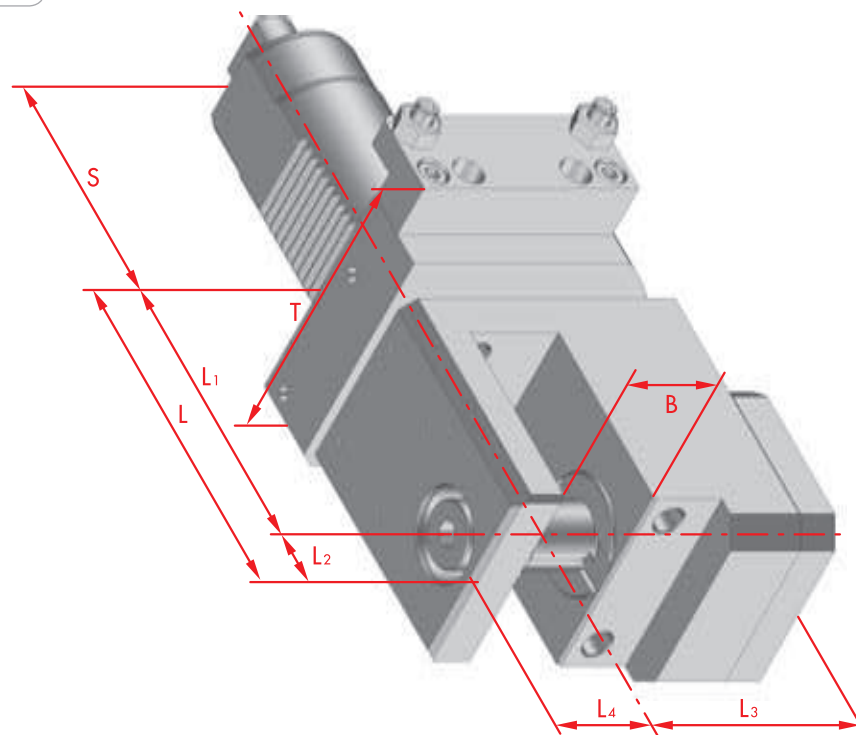
Turret type	Star-type Turret
Shank	VDI 50
Drive	Tang
SW	12,95 mm



Order No.	Tool holder	Clamping range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	X mm	L mm	L1 mm	L2 mm	B mm	S mm	T mm	EMAG Ref. #
125038	ER 25	0,5-16	35 Nm	6.000 / 6.000	i = 1:1	external	-	178,0	88,0	90	102	98	93	
125058	ER 16	0,5-10	6 Nm	3.500 / 14.000	i = 1:4	external	-	134,5	73,5	61	85,5	98	90	

Saw Blade Holder

for Manufacturer	
	
for Machine type	
VSC 315/400/500	
Dimensions	
Turret type	Star-type Turret
Shank	VDI 50
Drive	Tang
SW	12,95 mm



Order No.	Fitting dia. mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Kühlung	L mm	L1 mm	L2 mm	L3 mm	L4 mm	B mm	S mm	T mm	EMAG Ref. #
101827	22	40 Nm	6.500 / 2.450	i = 2,66:1	external	130	95	20,5	78	36	25	98	118	

Picture shows a straight driven toolholder with ER 32 collet for EMAG VSC 315/400/500

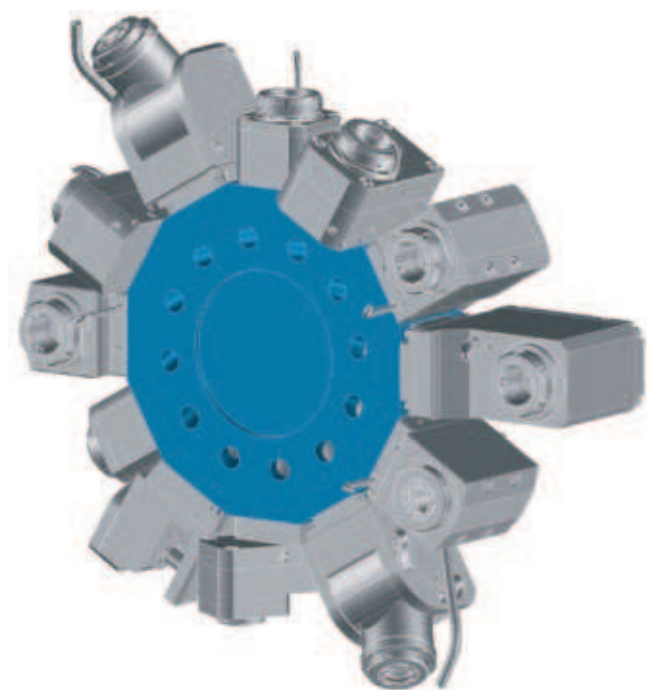


Data

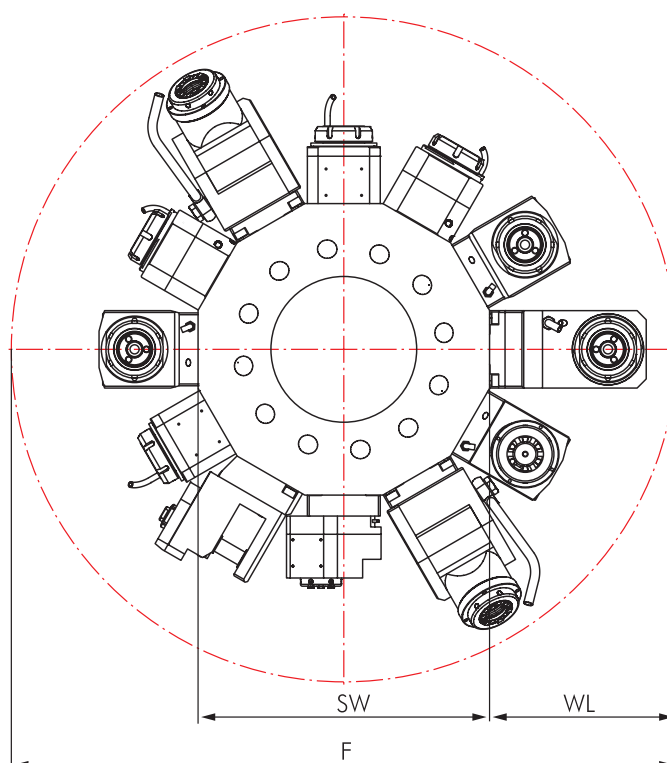
Machine type Series		Turret Stations
NL	1500	12
NL	2000	12
NL	2500	12
NL	3000	12



Star-type Turret „BMT“

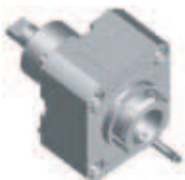


Interference Circles



Machine type Series	F	SW	WL
NL 1500/2000/2500	732	420	156
NL 3000	781	470	155,5

Driven Toolholders

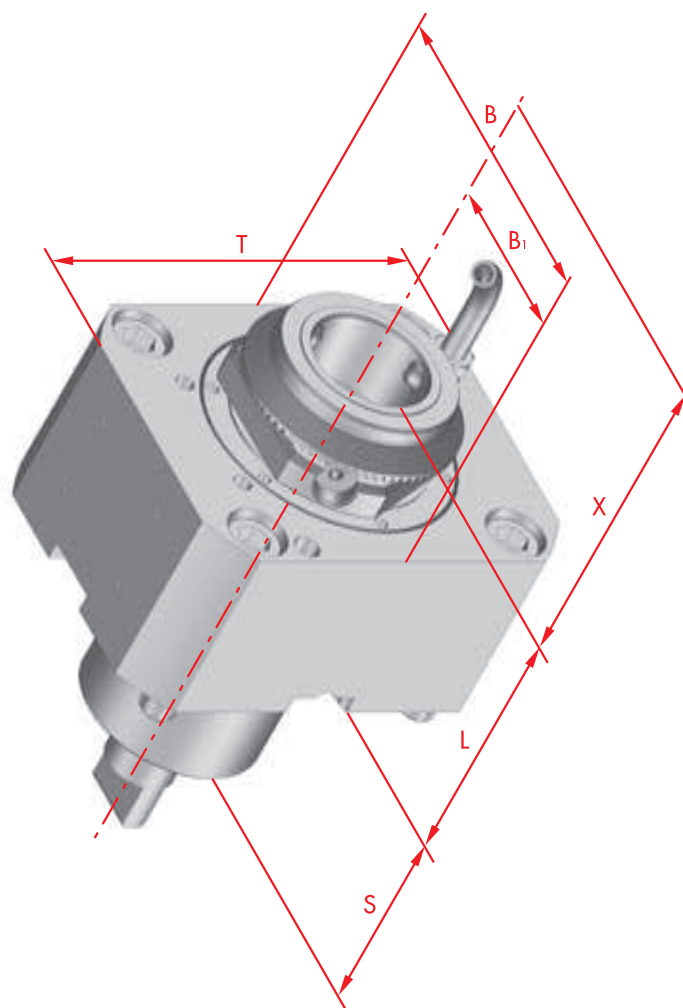
	Page		Page
Straight Unit		Angle Unit, 2-Axis	
	252		254
Angle Unit			
	253		

Options and Accessories

mi Toolholders		mi System Description	283
		Toolholders	287-291
		Accessories	290-292
Accessories		Collets DIN 6499	317
		Threading Collets	317
		Wrenches	317
		Clamping Nuts	317
		Sleeves and Bushings	318

Straight Unit

for Manufacturer	
MORI SEIKI THE MACHINE TOOL COMPANY	
for Machine type	
NL 1500 / 2000 / 2500 / 3000	
Dimensions	
Turret type	Star-type Turret
Shank	BMT Ø 60 mm
Drive	Tang
SW	7.9 mm



Order No.	Tool holder	Clamping range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	X mm	L mm	B mm	B1 mm	S mm	T mm	MORI SEIKI Ref. #
100471	ER 40	2,5-30	70 Nm	6.500 / 6.500	i = 1:1	external	-	115	108	54	53	130	T32213
124262	ER 40	2,5-30	70 Nm	6.500 / 6.500	i = 1:1	internal	-	115	108	54	53	130	-
124263	mi 50		70 Nm	6.500 / 6.500	i = 1:1	internal	-	94	108	54	53	130	-

Angle Unit

for Manufacturer

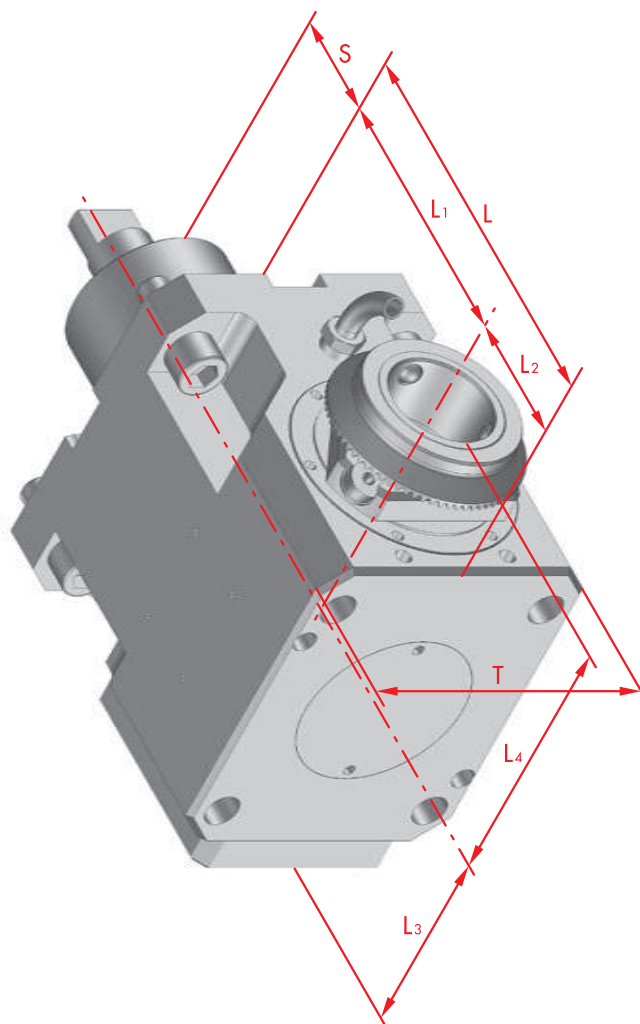
MORI SEIKI
THE MACHINE TOOL COMPANY

for Machine type

NL 1500 / 2000 / 2500 / 3000

Dimensions

Turret type	Star-type Turret
Shank	BMT Ø 60 mm
Drive	Tang
SW	7.9 mm



Order No.	Tool holder	Clamping range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	L mm	L1 mm	L2 mm	L3 mm	L4 mm	S mm	T mm	MORI SEIKI Ref. #
101219	ER 40	2,5-30	70 Nm	6.500 / 6.500	i = 1:1	external	139	90	49	75,5	117	53	130	T32214
124882	ER 40	2,5-30	70 Nm	6.500 / 6.500	i = 1:1	internal	139	90	49	75,5	117	53	130	-
124883	mi 50		70 Nm	6.500 / 6.500	i = 1:1	internal	139	90	49	75,5	96	53	130	-

Angle Unit, 2-Axis

for Manufacturer

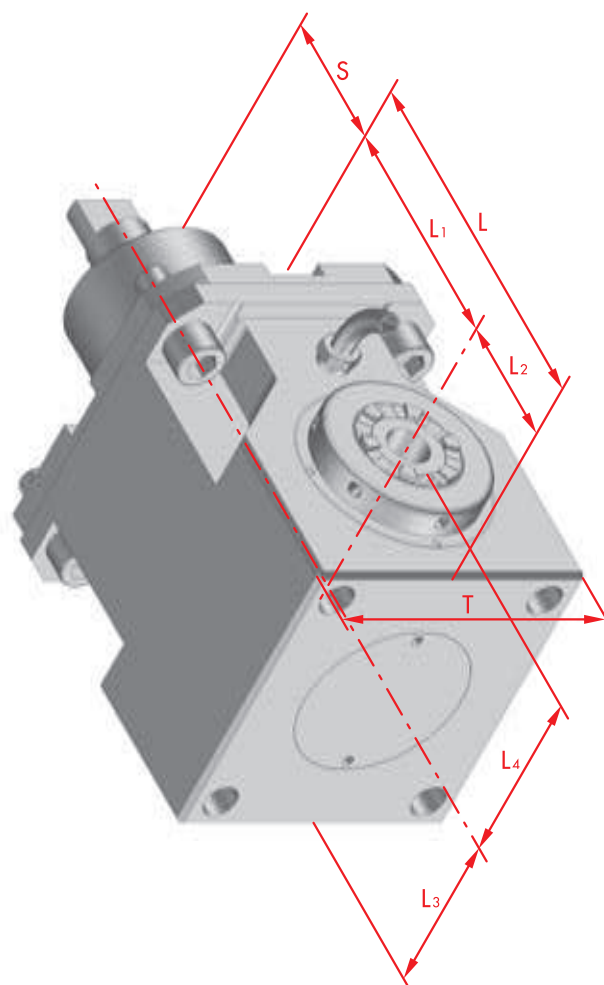
MORI SEIKI
THE MACHINE TOOL COMPANY

for Machine type

NL 1500 / 2000 / 2500 / 3000

Dimensions

Turret type	Star-type Turret
Shank	BMT Ø 60 mm
Drive	Tang
SW	7.9 mm



Order No.	Tool holder	Clamping range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	L mm	L1 mm	L2 mm	L3 mm	L4 mm	S mm	T mm	MORI SEIKI Ref. #
101218	2 x ER 32	1,0-20	70 Nm	6.500 / 6.500	i = 1:1	external	139	90	49	70	70	53	108	T32216
169193	2 x mi 40		70 Nm	6.500 / 6.500	i = 1:1	internal	129	90	39	105	82,5	53	108	

Picture shows a straight driven toolholder VDI 40 with a Capto-C4 interface

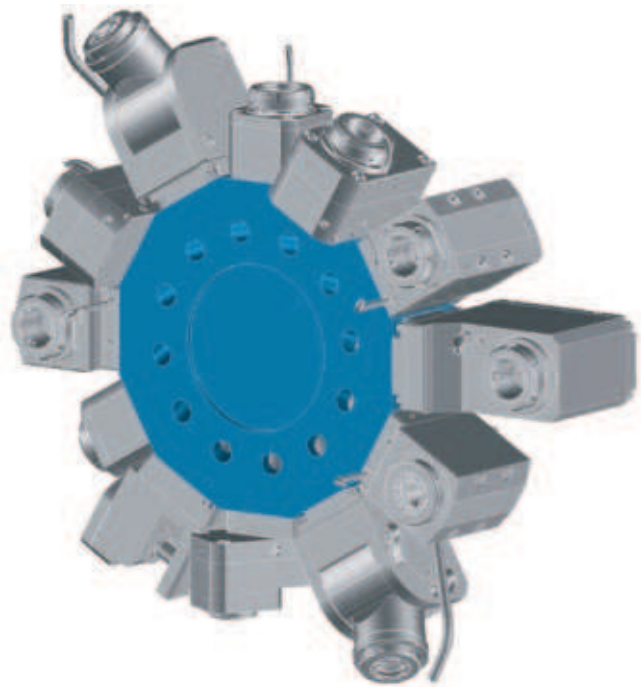


Data

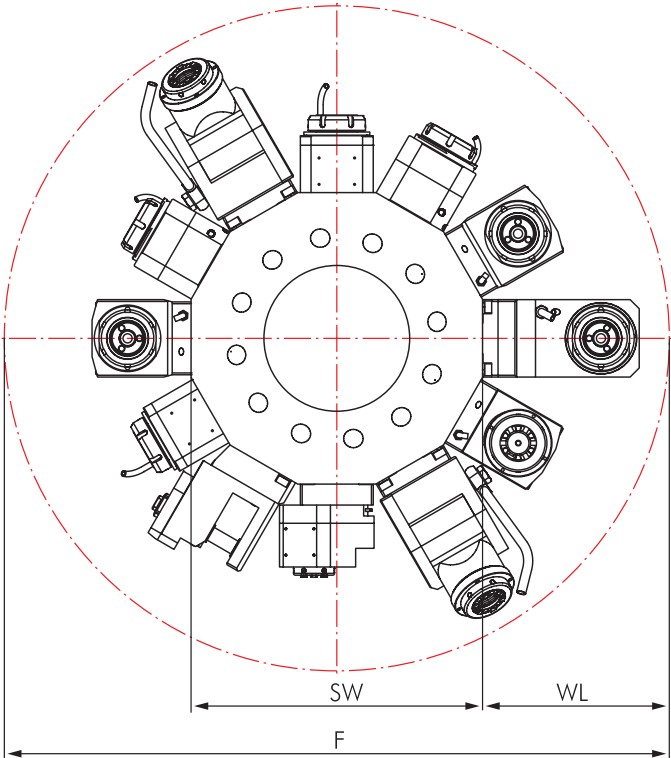
Machine type Series		Turret Stations
MT	12	15



Star-type Turret „BMT“



Interference Circles



Machine type Series	F	SW	WL
MT 12	670	380	145

Driven Toolholders

	Page		Page
Straight Unit, Offset type		Angle Unit	
	258		259

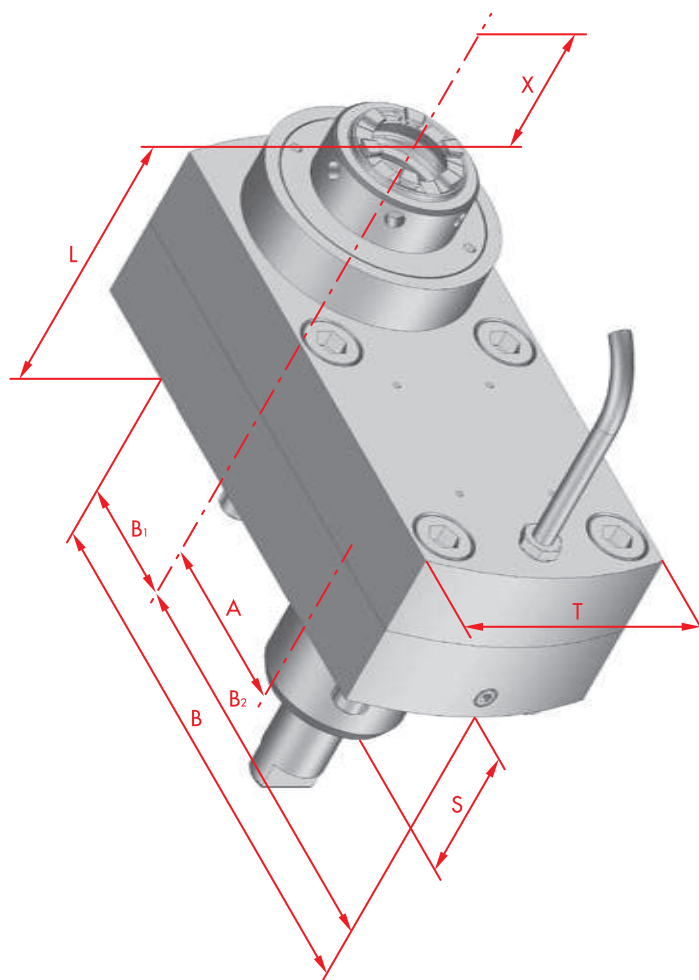
Options and Accessories

Accessories		Collets DIN 6499	317
		Threading Collets	317
		Wrenches	317
		Clamping Nuts	317
		Sleeves and Bushings	318



Straight Unit, Offset type

for Manufacturer	
muratec	
for Machine type	
MT 12	
Dimensions	
Turret type	Star-type Turret
Shank	BMT Ø 40 mm
Drive	Tang
SW	7,88 mm



Order No.	Tool holder	Clamping range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	L mm	A mm	B mm	B1 mm	B2 mm	S mm	T mm
124002	ER 25	0,5-16	25 Nm	6.500 / 6.500	i=1:1	external	80	72	160	38	50	40	74

Angle Unit

for Manufacturer

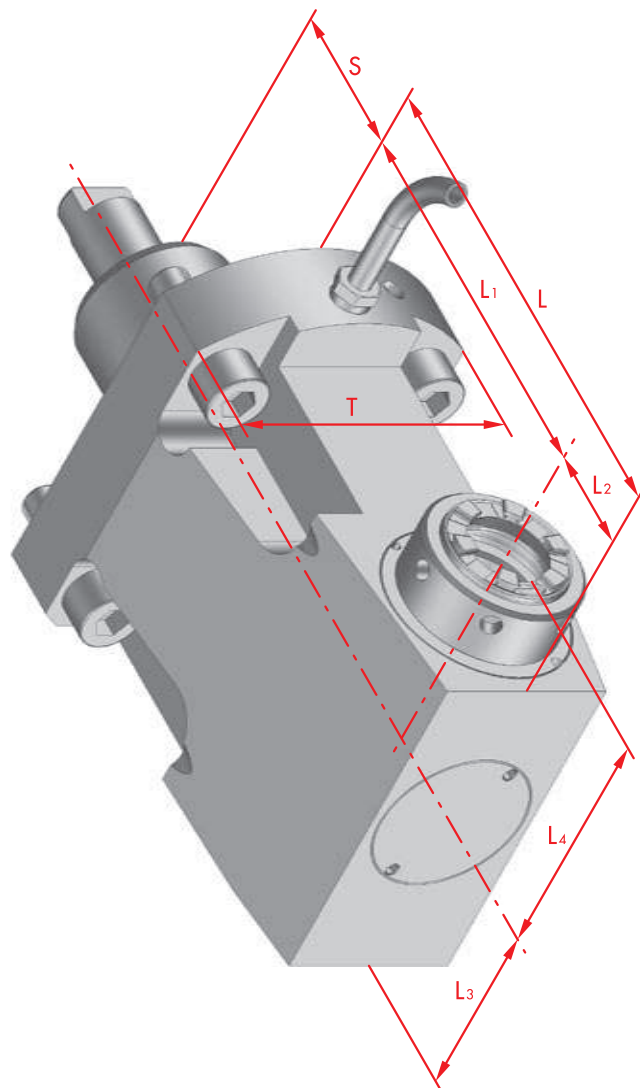
muratec

for Machine type

MT 12

Dimensions

Turret type	Star-type Turret
Shank	BMT Ø 40 mm
Drive	Tang
SW	7,88 mm



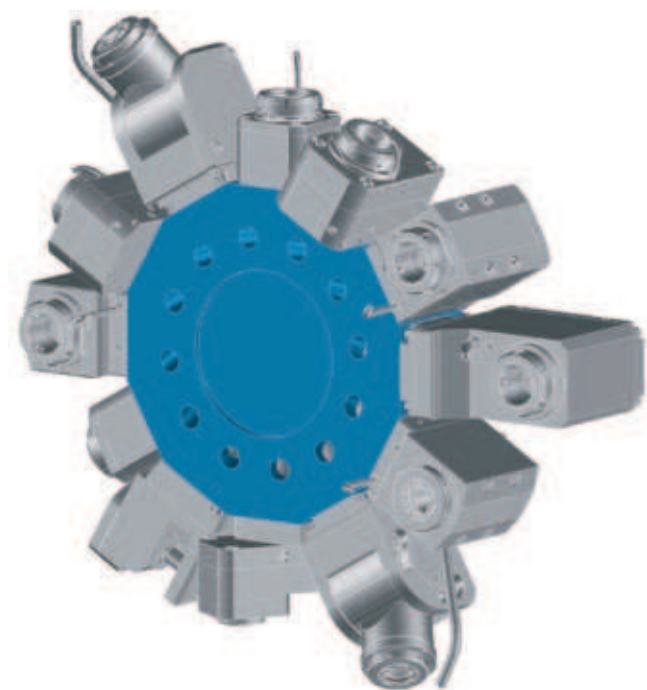
Order No.	Tool holder	Clamping range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	L mm	L1 mm	L2 mm	L3 mm	L4 mm	S mm	T mm
124490	ER 25	0,5-16	25 Nm	6.500 / 6.500	i=1:1	external	128	100	28	46	58	40	74

Data

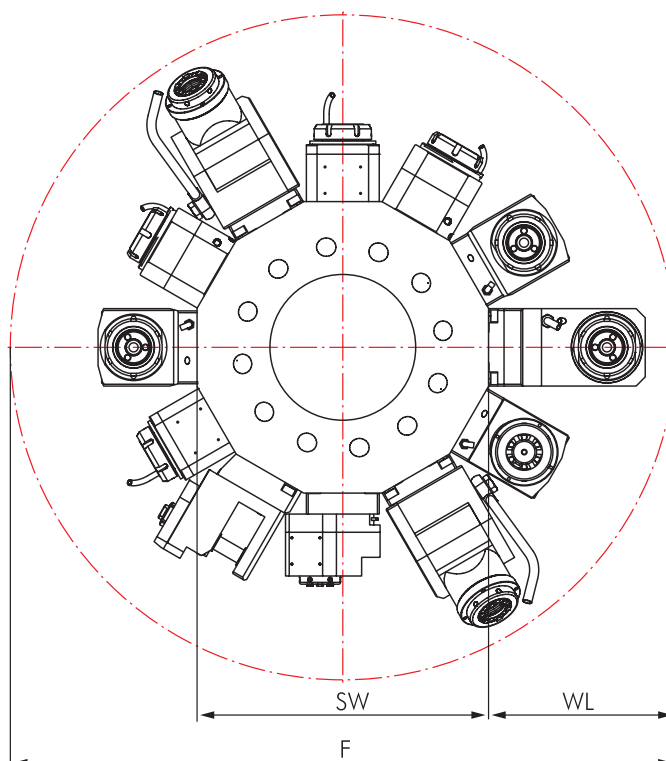
Machine type Series		Turret Stations
ABX	51 TH / SY	12
ABX	64 TH / SY	12



Star-type Turret „BMT“

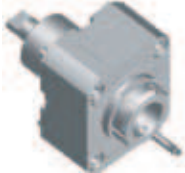


Interference Circles



Machine type Series	F	SW	WL
ABX 51/64	530	320	105

Driven Toolholders

	Page		Page
Straight Unit		Angle Unit	
	262		263

Options and Accessories

Accessories		Collets DIN 6499	317
		Threading Collets	317
		Wrenches	317
		Clamping Nuts	317
		Sleeves and Bushings	318



Straight Unit

for Manufacturer

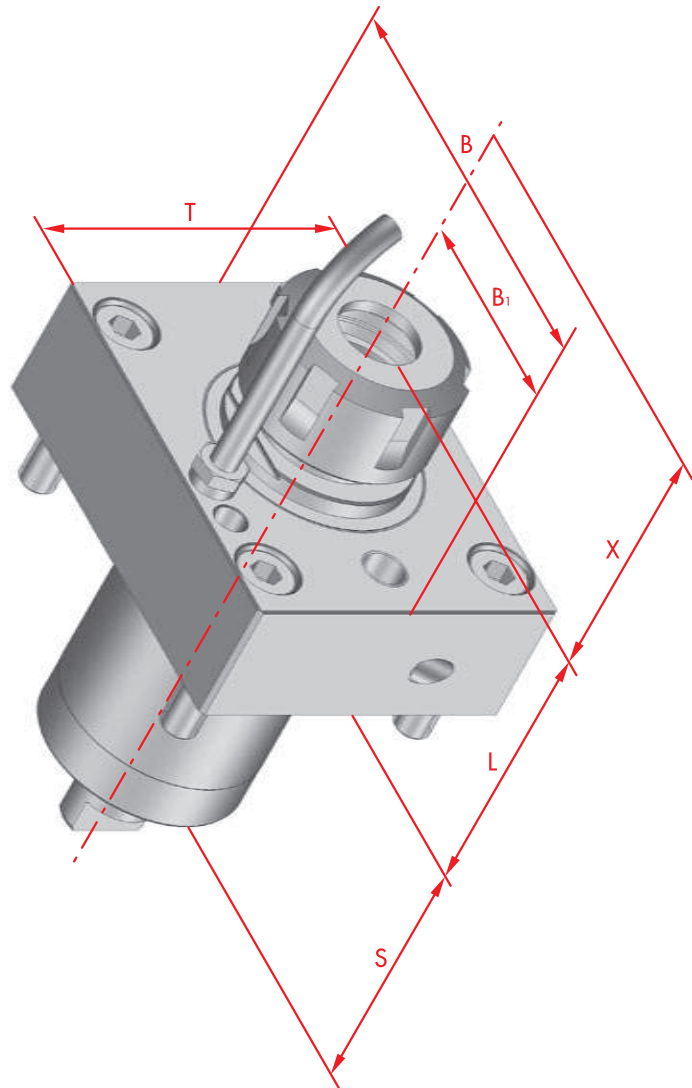
Miyano

for Machine type

ABX 51 TH
ABX 64 TH

Dimensions

Turret type	Star-type Turret
Shank	BMT Ø 45 mm
Drive	Tang
SW	6 mm



Order No.	Tool holder	Clamping range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	X mm	L mm	B mm	B1 mm	S mm	T mm
123862	ER 25	0,5-16	25 Nm	6.000 / 6.000	i = 1:1	external	44	61	92	46	55	72

Angle Unit

for Manufacturer

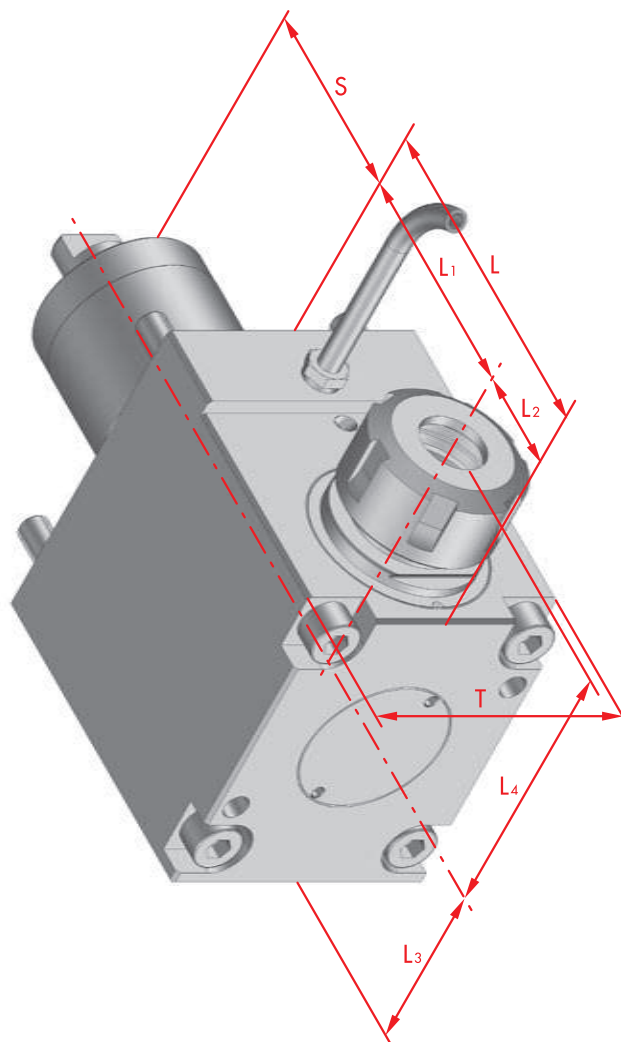
Miyano

for Machine type

ABX 51 TH
ABX 64 TH

Dimensions

Turret type	Star-type Turret
Shank	BMT Ø 45 mm
Drive	Tang
SW	6 mm



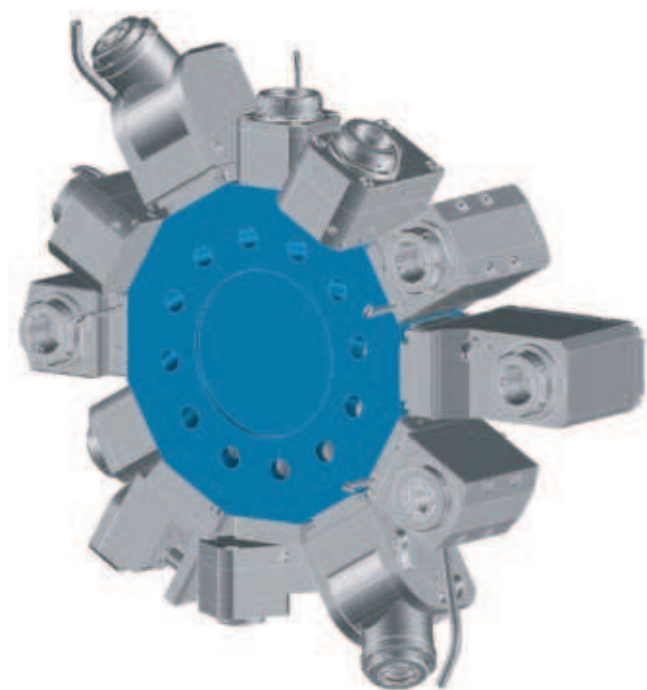
Order No.	Tool holder	Clamping range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	L mm	L1 mm	L2 mm	L3 mm	L4 mm	S mm	T mm
124578	ER 25	0,5-16	25 Nm	6.000 / 6.000	i = 1:1	external	93	65	28	46	74	55	72

Data

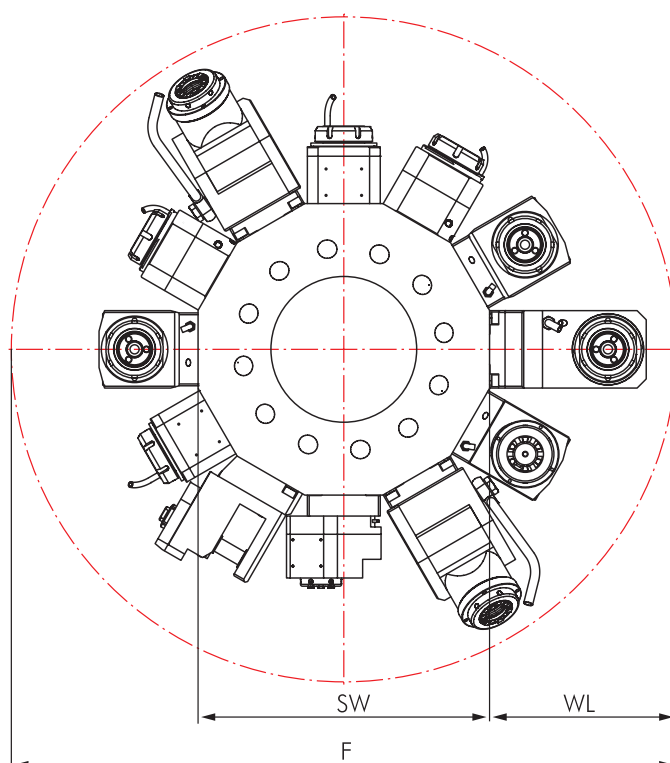
Machin type series	Turret Stations
B 301 / 545 M / SM / Y / YS	12
B 550 / 565 M / SM / Y / YS	12
B 501 M / SM	12



Star-type Turret „BMT“

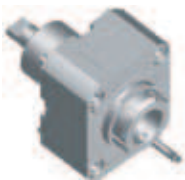


Interference Circles



Machine type Series	F	SW	WL
B301 / B545	575	320	127,5
B445 / B470	565	320	122,5
B501 / B565	600	320	140,0

Driven Toolholders

	Page		Page
Straight Unit		Angle Unit	
	266		267

Options and Accessories

Accessories		Collets DIN 6499 317 Threading Collets 317 Wrenches 317 Clamping Nuts 317 Sleeves and Bushings 318
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Straight Unit

for Manufacturer



for Machine type

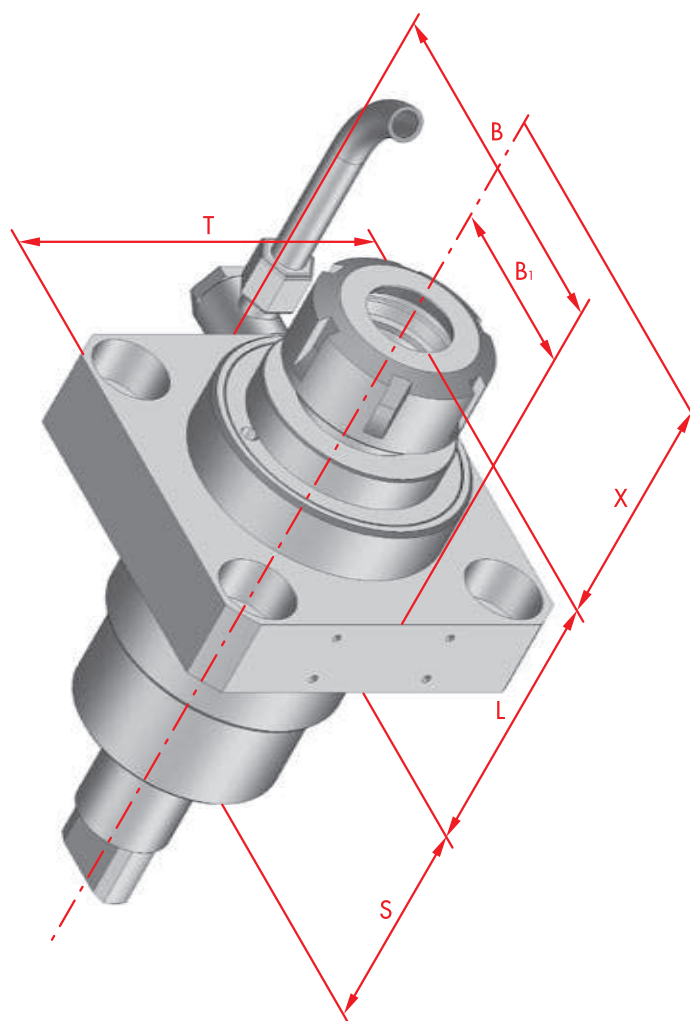
B 301 / 545

B 550 / 565

B 501

Dimensions

Turret type	Star-type Turret
Shank	BMT Ø 55 mm
Drive	Tang
SW	8 mm



Order No.	Tool holder	Clamping range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	X mm	L mm	B mm	B1 mm	S mm	T mm
123775	ER 25	0,5-16	50 Nm	6.500 / 6.500	i = 1:1	external	70	70	84	42	94	42

Angle Unit

for Manufacturer



for Machine type

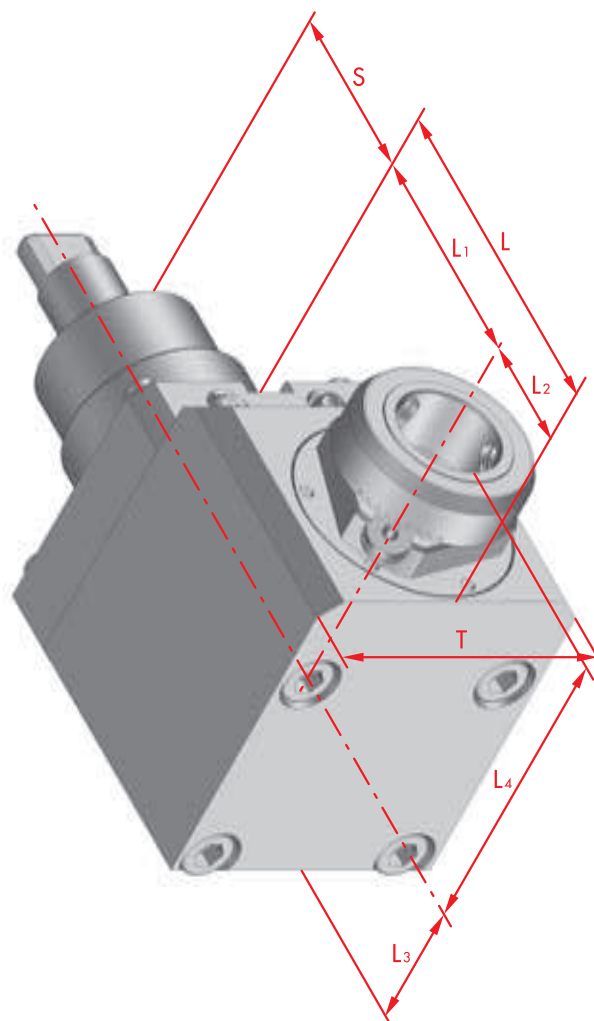
B 301 / 545

B 550 / 565

B 501

Dimensions

Turret type	Star-type Turret
Shank	BMT Ø 55 mm
Drive	Tang
SW	8 mm



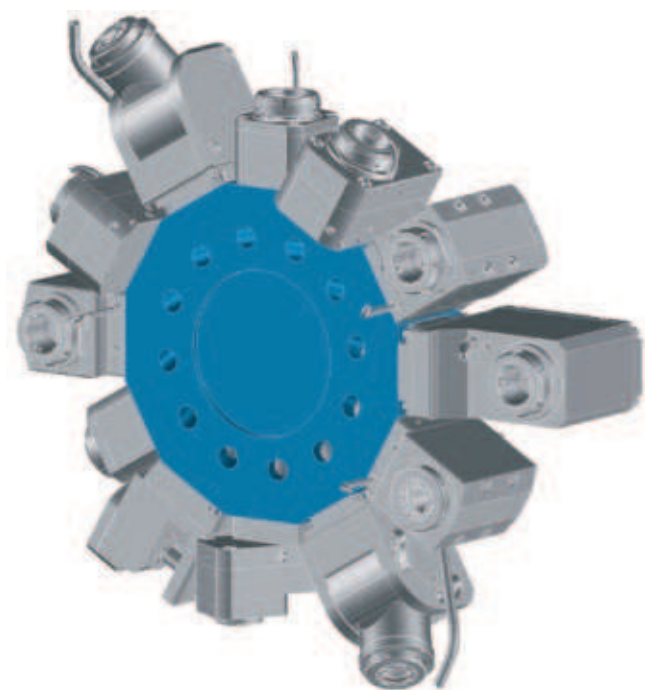
Order No.	Tool holder	Clamping range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	L mm	L1 mm	L2 mm	L3 mm	L4 mm	S mm	T mm
124489	ER 25	0,5-16	25 Nm	6.500 / 6.500	i = 1:1	external	104	70	34	43	72	94	84
169229	mi 40		25 Nm	6.500 / 6.500	i = 1:1	external	104	70	34	43	93,5	79	84

Data

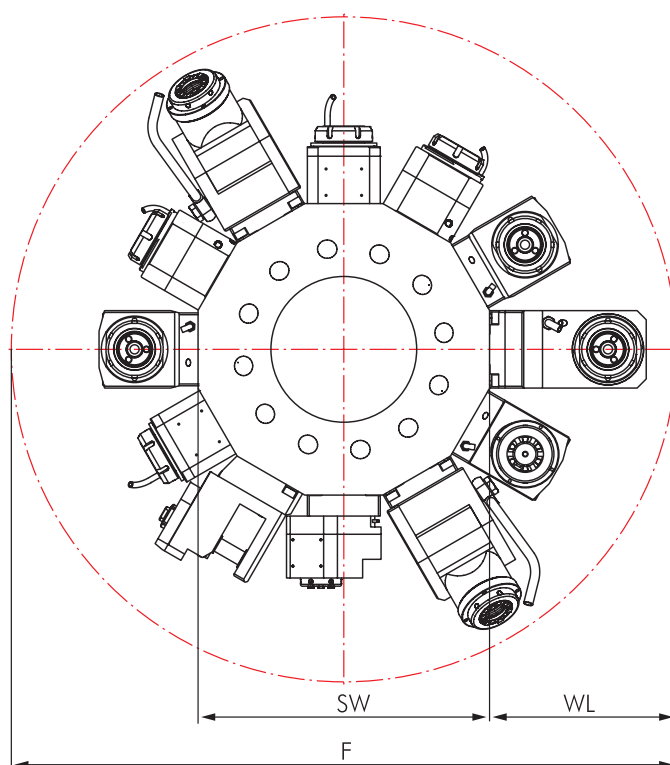
Machin type series		Turret Stations
SL	20	12
SL	30	12



Star-type Turret VDI 40



Interference Circles



Machine type Series	F	SW	WL
SL 20			
SL 30			

Driven Toolholders

	Page		Page
Straight Unit		Angle Unit	
	270		271

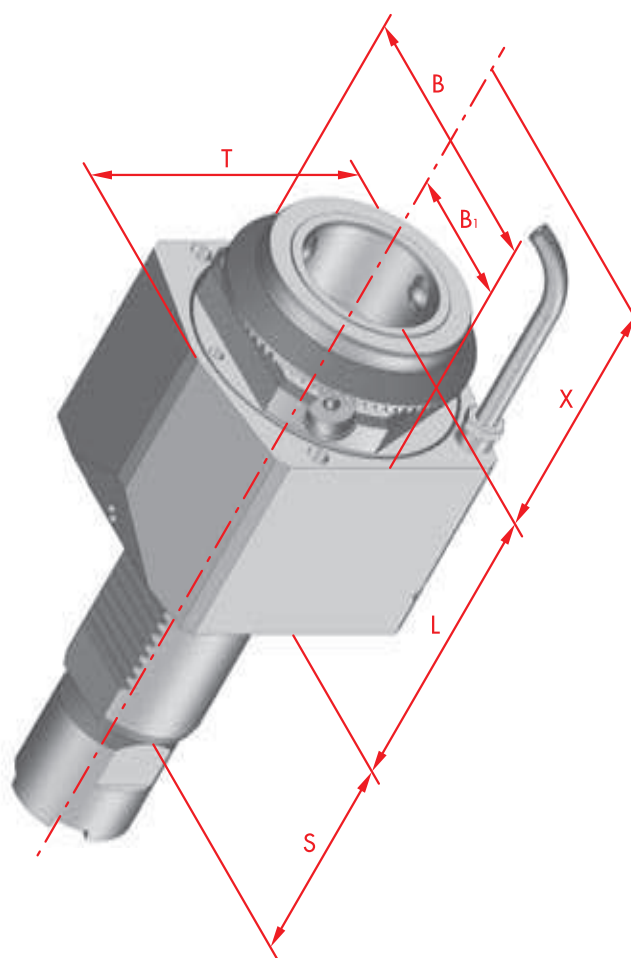
Options and Accessories

mi Toolholders		mi System Description 283 Toolholders 287-291 Accessories 290-292
Standard VDI Toolholders		VDI Toolholders 310-316 Accessories 317-318
Accessories		Collets DIN 6499 317 Threading Collets 317 Wrenches 317 Clamping Nuts 317 Sleeves and Bushings 318



Straight Unit

for Manufacturer	
	
for Machine type	
SL 20/30	
Dimensions	
Turret type	Star-type Turret
Shank	VDI 40
Drive	Contrate Toothing



Order No.	Tool holder	Clamping range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	X mm	L mm	B mm	B1 mm	T mm	S mm
100434	ER 32	1-20	80 Nm		i = 1:1	external	-	75,5	85	42	84	104,85
169129	ER 32	1-20	80 Nm		i = 1:1	external	-	75,5	85	42	84	117,55
124231	ER 32	1-20	80 Nm	6.500 / 6.500	i = 1:1	internal	-	75,5	85	42	84	104,85
124232	ER 32	1-20	80 Nm	6.500 / 6.500	i = 1:1	internal	-	75,5	85	42	84	117,55
100833	MI 50	-	80 Nm	6.500 / 6.500	i = 1:1	internal	-	92	85	42	84	104,85
169595	MI 50	-	80 Nm	6.500 / 6.500	i = 1:1	internal	-	92	85	42	84	117,55

Angle Unit

for Manufacturer



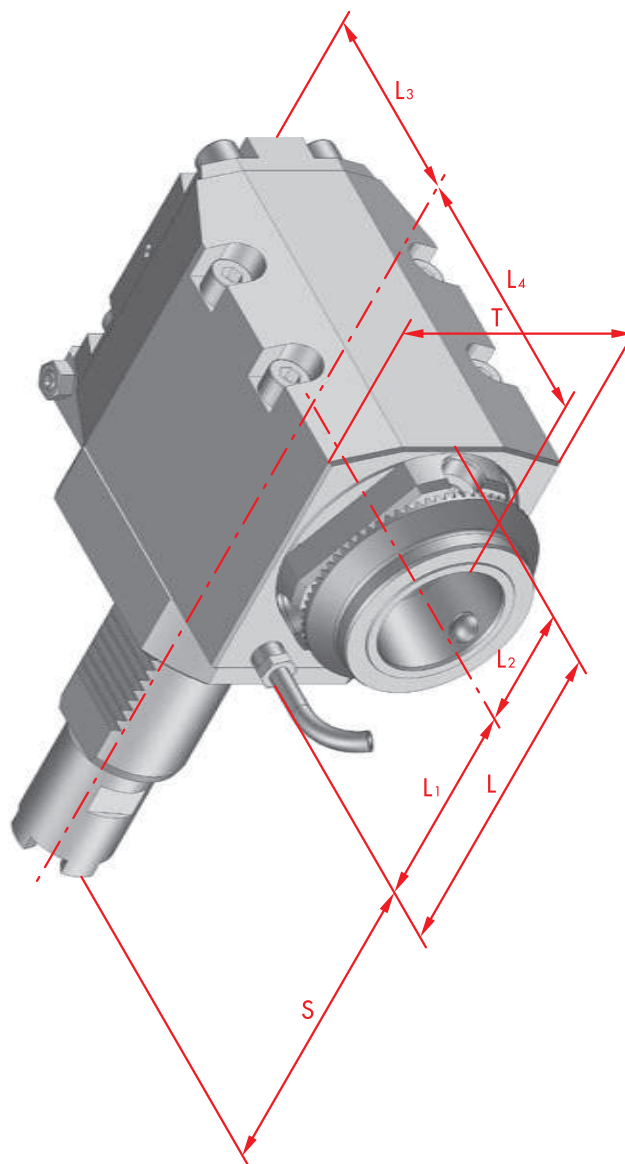
for Machine type

SL 20/30

Dimensions

Turret type Star-type Turret
 Shank VDI 40
 Drive Contrate Toothing

no reversion of rotation



Order No.	Tool holder	Clamping range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	L mm	L1 mm	L2 mm	L3 mm	L4 mm	T mm	S mm
101174	ER 32	1-20	50 Nm	6.500 / 6.500	i = 1:1	external	109	70	39	66	70	80	104,85
169141	ER 32	1-20	50 Nm	6.500 / 6.500	i = 1:1	external	109	70	39	66	70	80	117,55
124836	ER 32	1-20	50 Nm	6.500 / 6.500	i = 1:1	internal	109	70	39	66	70	80	104,85
166691	ER 32	1-20	50 Nm	6.500 / 6.500	i = 1:1	internal	109	70	39	66	70	80	117,55
101477	MI 50	-	50 Nm	6.500 / 6.500	i = 1:1	internal	109	70	39	66	88	80	104,85
169593	MI 50	.	50 Nm	6.500 / 6.500	i = 1:1	internal	109	70	39	66	88	80	117,55

Form for Inquiry, Part 1

Fax +49-831-57444-90

Company	
Name	
Street	
Zip/City	
Phone	
Fax	
E-Mail	

Specifications to the Machine

Manufacturer		
Type, Year of manufacturing		
Machine No.		
Coolant		
Coolant pressure (internal coolant)		
Spindle speed max.		r.p.m
max. torque of the spindle		Nm
Turret manufacturer		Typ. No.
Turret Revolver type	Disc-type Turret	Star-type Turret
Number of slots		
max. swinging circle		mm
Operation	Main spindle	Sub spindle
Revolver drive	please mark with a cross:	


☐
 DIN 1809
Duplomatic

☐
 Baruffaldi
TOEM

☐
 DIN 5480
Sauter

☐
 DIN 5482
Sauter

☐
 OKUMA
single level

☐
 OKUMA
dual level

☐
 INDEX

☐
 Bevel gear

☐
 BIGLIA
NAKAMURA

☐
 MORI SEIKI

Specifications to the Operation

Operation		
(drilling, milling, turning, etc.)		
Material		
Tool		
Tool diameter		mm
Work piece drawing	yes (please transmit)	no

Specifications to the Tool

Shank size VDI		mm
Others		
Gear ratio		i=
Spindle speed wanted		r.p.m
Torque moment wanted		Nm
Coolant	yes	no
max. coolant pressure through the spindle (internal)		
Coolant nozzle		
Coolant pipe		
Notice		

Form for Inquiry, Part 2

Fax +49-831-57444-90

Specifications to the Tool

Type

please notice your required number of pieces:



Straight, central



Straight, Offset type
(A= mm)



Angle, central



Angle, Offset type
(A= mm)



Multi spindle unit
Straight, central



Multi spindle unit
Straight, Offset type
(A= mm)



Multi spindle unit
angle, central



Multi spindle unit
angle, Offset type
(A= mm)



Y-Unit
adjustable



Angle Unit
adjustable



Special angle
fixed (°)



Saw blade
holder, straight



Saw blade
holder, angle

Toolholder

please mark with a cross:



mi
Quick
change
tool
system



SYNAX
Tapping
quick
change
system



Hydro-Flex
Hydraulic
clamping
system



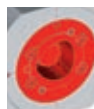
Collet
ER
DIN 6499



Weldon/
Whistle-
Notch



Komet
ABS



Coromant
CAPTO



Shell mill
holders



KM / UTS



HSK



SK



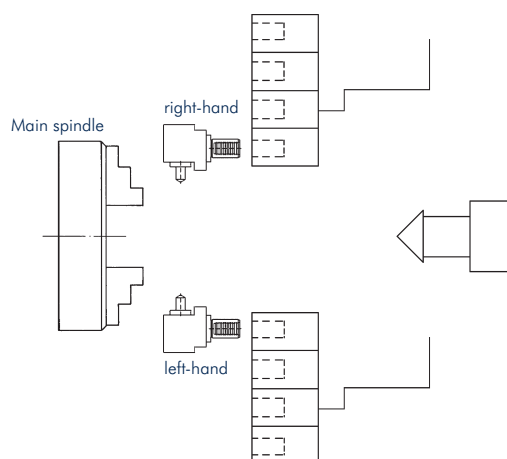
Saw blade

Tool type

right

left

Disc-type Turret



Star-type Turret

