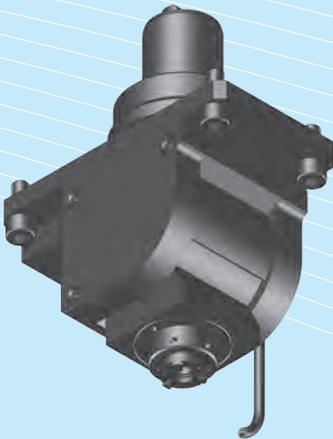
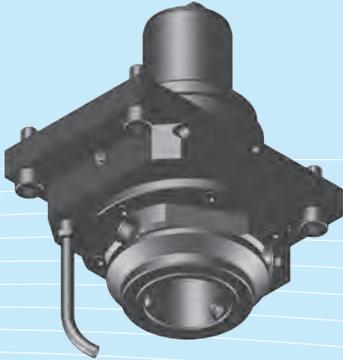


## Driven Toolholders for MAZAK Machines



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## mimatic<sup>®</sup> Tool Systems for Sustainability and Efficiency

**BLUECOMPETENCE**

Alliance Member

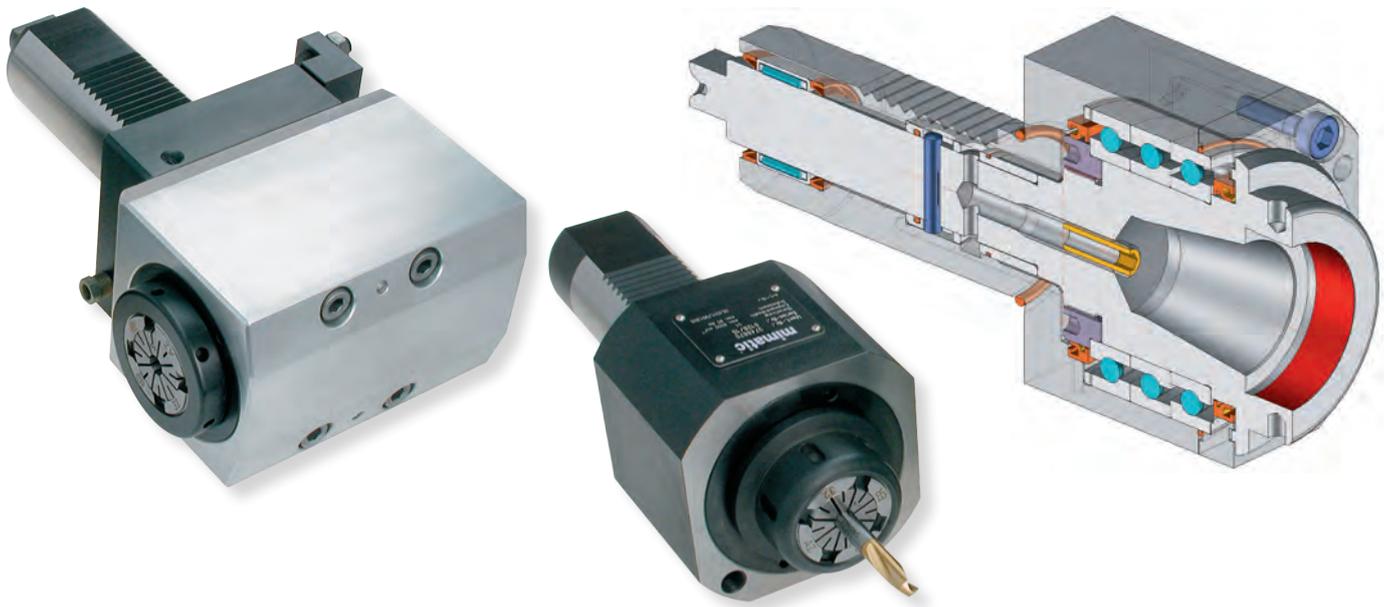
Partner of the Engineering Industry  
Sustainability Initiative

Tools according to the policy of BLUECOMPETENCE are marked in this catalogue. More information on the program (Initiative) of the VDMA see pages 16-17 in the main catalogue.

## Selection According to Tool Type

		Manufacturer	Page
<b>Straight Unit</b>			34, 38, 68
<b>Straight Unit, Offset Type</b>			10, 18, 28, 35, 44-45, 54-55, 64
<b>Angle Unit</b>			11, 19, 29, 39, 46-47, 56-57, 65, 69
<b>Angle Unit, 2-Axis</b>			12, 20, 58
<b>Angle Unit, adjustable 0-100°</b>			13, 21, 40, 48, 59
<b>Y-Unit, adjustable ± 90°</b>			14, 22, 49, 60
<b>Saw Blade Holder</b>			15, 23, 50, 61
<b>Straight Unit, Twin Type</b>			24, 30
<b>Angle Unit, Twin Type</b>			25, 31

## 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®

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

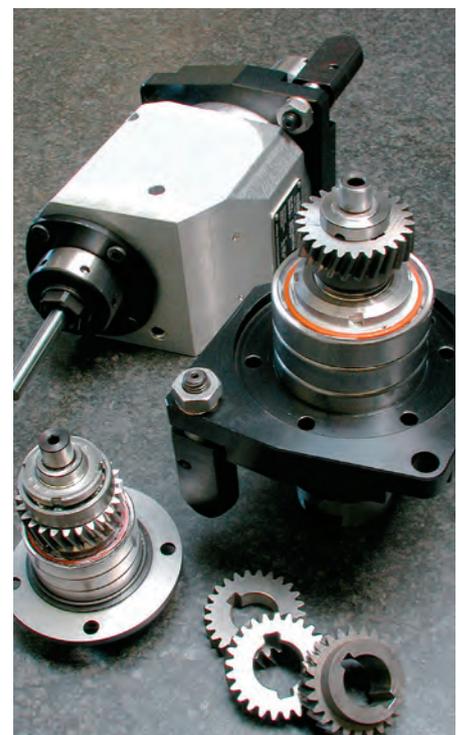
Our quality systems have been approved since 1998 and we are certified to DIN EN ISO 9001:2000.

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

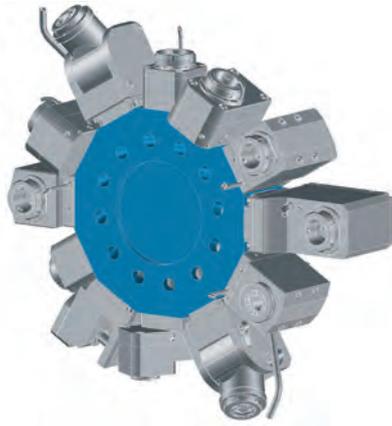
Many years ago we started to specialize in the production of driven toolholder units for metal processing. These are installed on CNC lathes.

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.



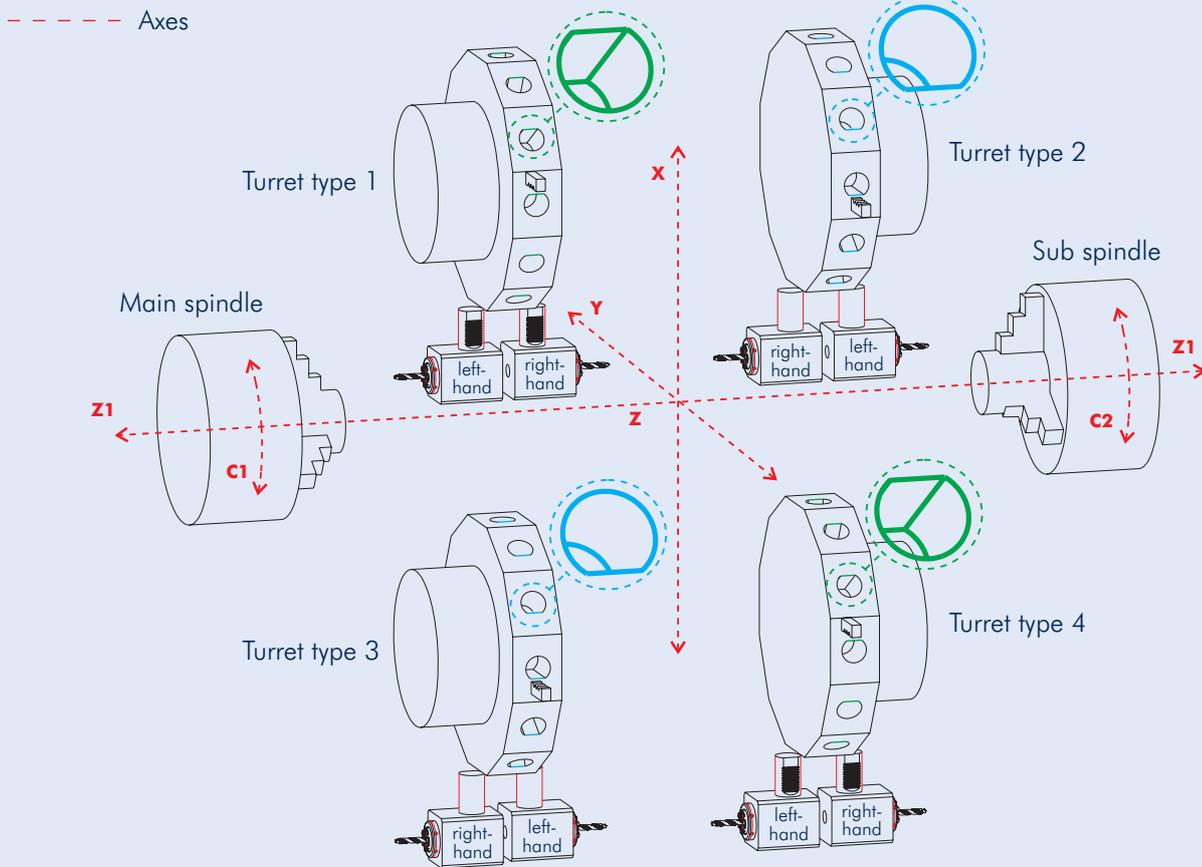
## Operation with Star-type Turrets



### Tools are fixed on the the revolver circuit!

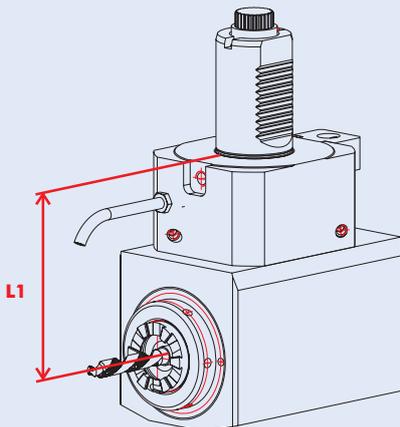
The orientation of the revolver to the spindle is important. Machines with Star-type Turrets often come with a sub spindle.

## Right- and Left-hand Versions on Star-type Turrets with Main- and Sub-Spindle



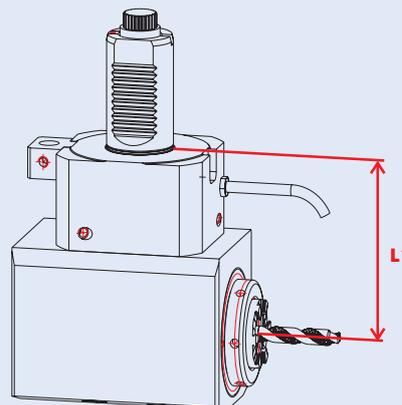
### Left-hand Version

Please note dimension L1



### Right-hand Version

Please note dimension L1



**Please check interference circles with fixed tools!**

## 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 µm
- Internal coolant supply up to 70 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 µm 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 mm
- Secure holding force by form-locking
- Very short design
- Toolholders in different sizes
- All toolholders with internal coolant

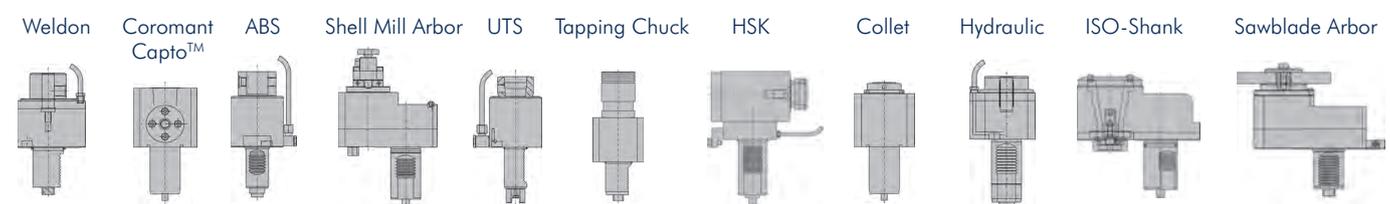
### Modular Toolholders in different Sizes for all Production Areas

- 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 of „mimatic mi“ on pages 82-95.**

## 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).**

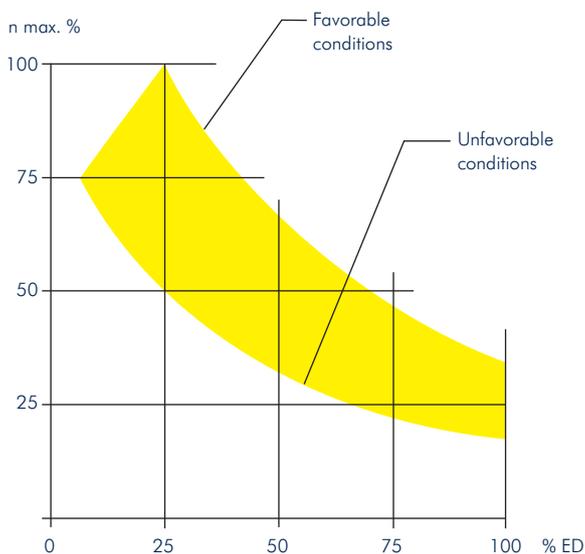
**Tools with internal coolant through the spindle (i.C.):** To avoid premature wear and damage to the seal system we recommend to filter the coolant to 40  $\mu\text{m}$  minimum.

Filter grades of 40  $\mu\text{m}$  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.)

# Mazak

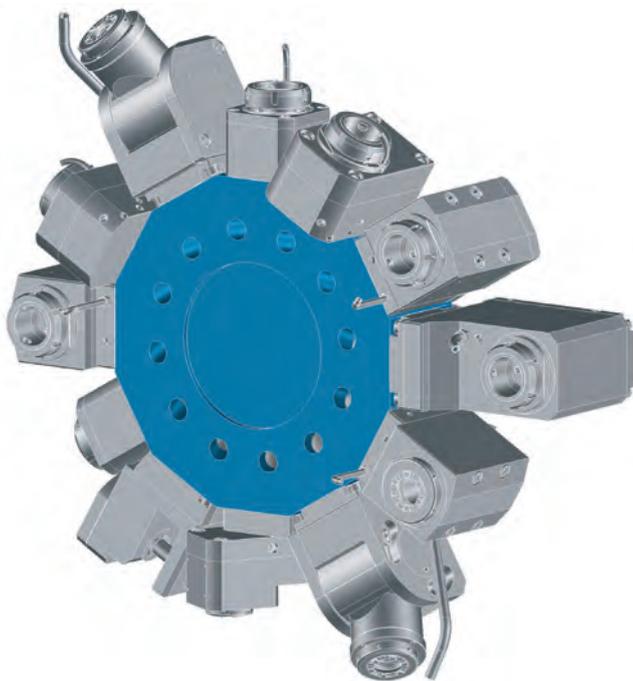
## QUICK TURN NEXUS 100 + SUPER QUICK TURN 10

### Data

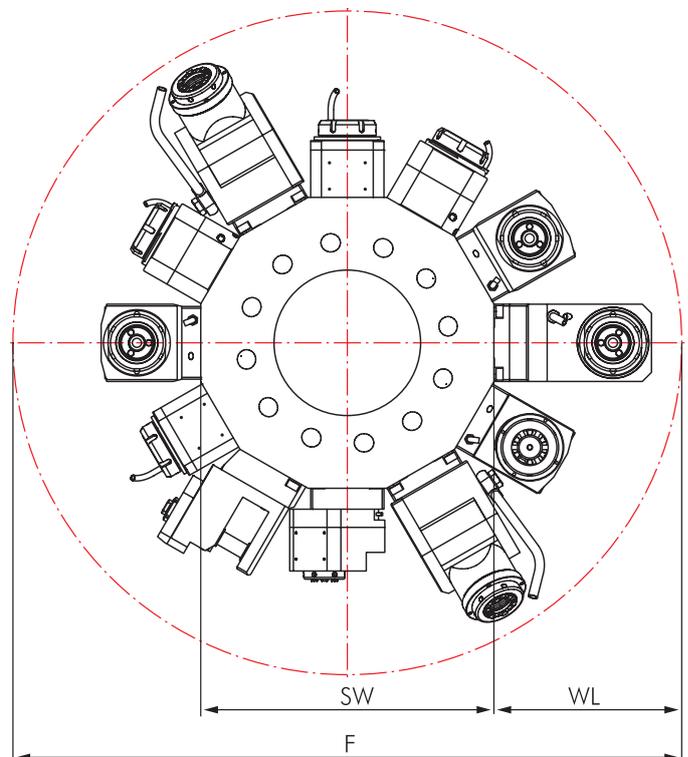
Machine type Series	Turret Stations
<b>QTNX 100/100-II</b> M / MS / MY / MSY	12
<b>QTNX 200</b> M / MS / MY / MSY	16
<b>QTNX 250</b> M / MS / MY / MSY	16
<b>SQT 10</b> M / MS	12
<b>SQT 100</b> M / MS	12
<b>SQT 15</b> M / MS	16
<b>SQT 200</b> M / MS	16
<b>SQT 250</b> M / MS	16



### Star-type Turret VDI 40



### Interference Circles



Machine type Series	F	SW	WL
<b>QTNX 100</b>	564	286	139
<b>QNTX 200/250</b>	564	286	139
<b>SQT 10</b>	564	286	139
<b>SQT 200/250</b>	664	386	139

**QUICK TURN NEXUS 100 + SUPER QUICK TURN 10**

**Driven Toolholders**

	Page		Page
<b>Straight Unit, Offset Type</b>	10		
		<b>Angle Unit, adjustable 0-100°</b>	13
			
<b>Angle Unit</b>	11		
		<b>Y-Unit, adjustable ± 90°</b>	14
			
<b>Angle Unit, 2-Axis</b>	12		
		<b>Saw Blade Holder</b>	15
			

**Options and Accessories**

<b>mi Toolholders</b>		mi System Description Toolholders Accessories	83 84-88 89-90
<b>Static Toolholders for MAZAK</b>		Static Toolholders Accessories	71-79 80-81
<b>Accessories</b>		Collets DIN 6499 Threading Collets Wrenches Clamping Nuts Sleeves and Bushings	91 91 91 91 93



**Delivery information**

Driven toolholders with mi quick-change interface are supplied with operating wrench (see spare parts on page 90).  
Driven toolholders with other interfaces are supplied without clamping wrench (see accessories on page 91).

# Straight Unit, Offset and without Offset Type

Connectable in accordance with **BLUECOMPETENCE** » mimatic mi » PolyMILL » TriMILL » TrioCut » PolyREAM

for Manufacturer

**Mazak**

for Machine type

**NEXUS QTNX 100/100-II**  
**SQT 10**

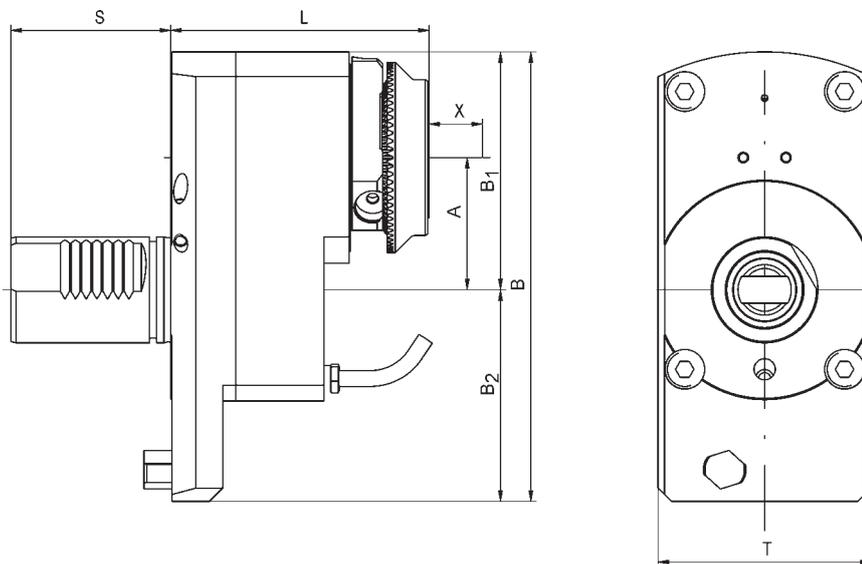
QTNX	SQT
100 M-12x	10 M/MS-12x
200 M/MS-16x	100 M/MS-12x
250 M/MS-16x	15 M/MS-16x
	200 M/MS-16x
	250 M/MS-16x

Data

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

Modular Interfaces

**mimaticMi**



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	Rotating direction
124042	ER 32	1,0-20	50 Nm	6.500 / 6.500	i = 1:1	external	49,0	90,0	50	170	90	80	60	80	↺ ↻
124268**	ER 32*	1,0-20	50 Nm	6.500 / 6.500	i = 1:1	internal	49,0	90,0	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	49,0	90,0	50	170	90	80	60	80	↺ ↻
167934	mi 50	-	50 Nm	6.500 / 6.500	i = 1:1	internal	49,0	97,0	50	170	90	80	60	80	↺ ↻
<b>Without offset:</b>															
124265	ER 32*	1,0-20	80 Nm	6.500/6.500	i = 1:1	internal	54,0	85,0	0	87	38	49	60	80	↺ ↻
167717	ER 32	1,0-20	80 Nm	6.500/6.500	i = 1:1	external	54,0	85,0	0	87	38	49	60	80	↺ ↻

# Angle Unit

for Manufacturer

**Mazak**

for Machine type

**NEXUS QTNX 100/100-II**  
**SQT 10**

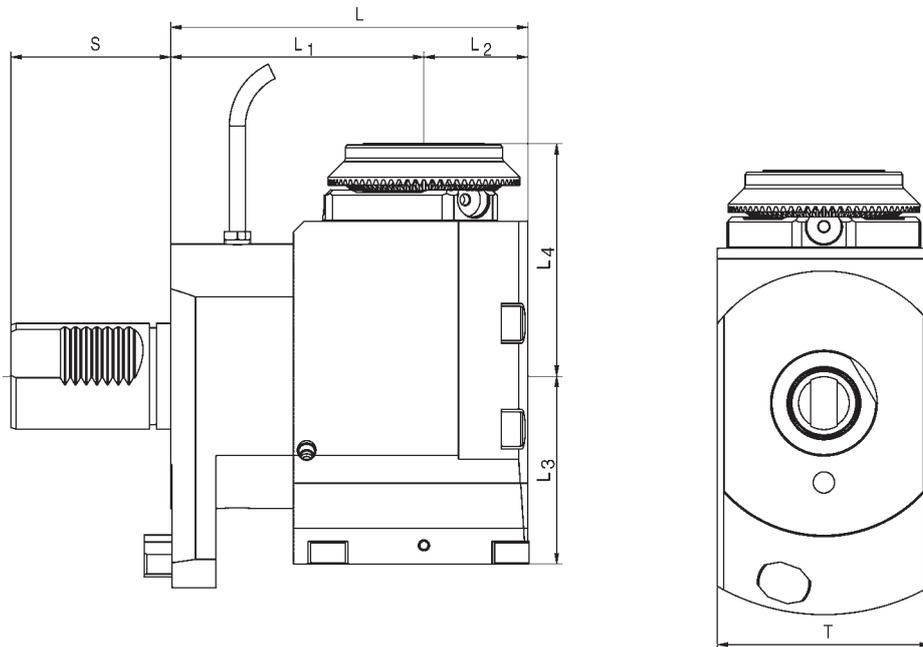
QTNX	SQT
100 M-12x	10 M/MS-12x
200 M/MS-16x	100 M/MS-12x
250 M/MS-16x	15 M/MS-16x
	200 M/MS-16x
	250 M/MS-16x

Data

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

Modular Interfaces

**mimaticMi**



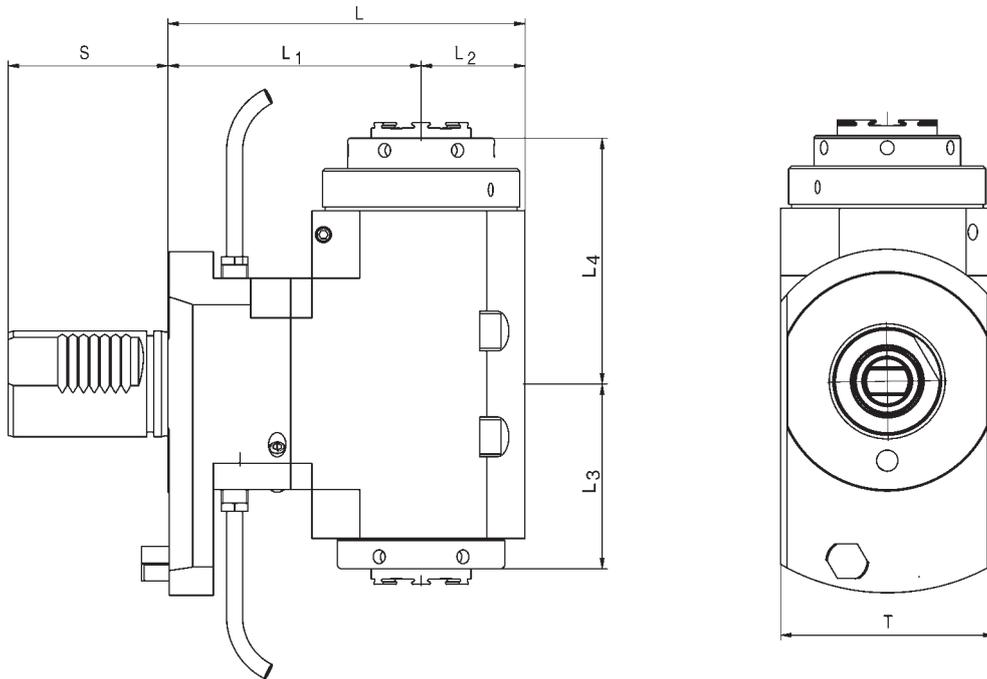
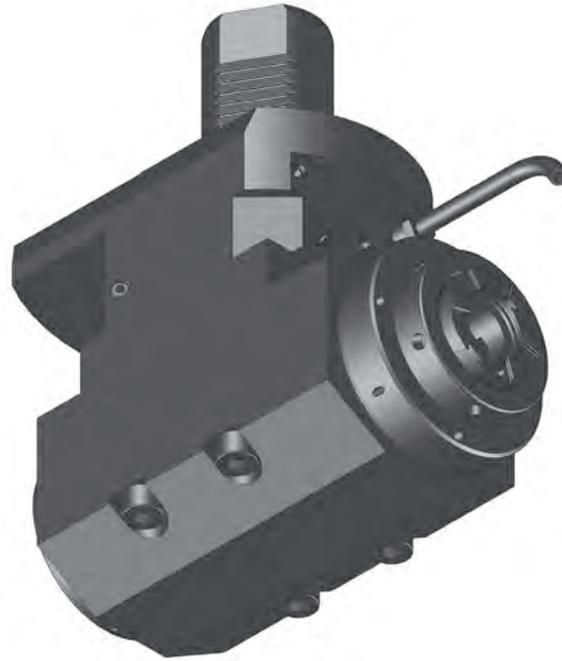
Order No.	Tool holder	Clamping range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	L mm	L1 mm	L2 mm	L3 mm	L4 mm	S mm	T mm	Rotating direction
124651	ER 32	1,0-20	50 Nm	6.500 / 6.500	i = 1:1	external	134	95	39	69,0	76	60	85	↺ ↻
124887	ER 32*	1,0-20	50 Nm	6.500 / 6.500	i = 1:1	internal	135	95	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	40,0	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	71,0	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	76,0	69	60	80	↺ ↻
170640**	ER 25*	0,5-16	50 Nm	6.500 / 6.500	i = 1:1	internal	134	95	39	76,0	69	60	80	↺ ↻

\* With clamping nuts with sealing, seals see page 92

\*\* Type for sub-spindle

# Angle Unit, 2-Axis

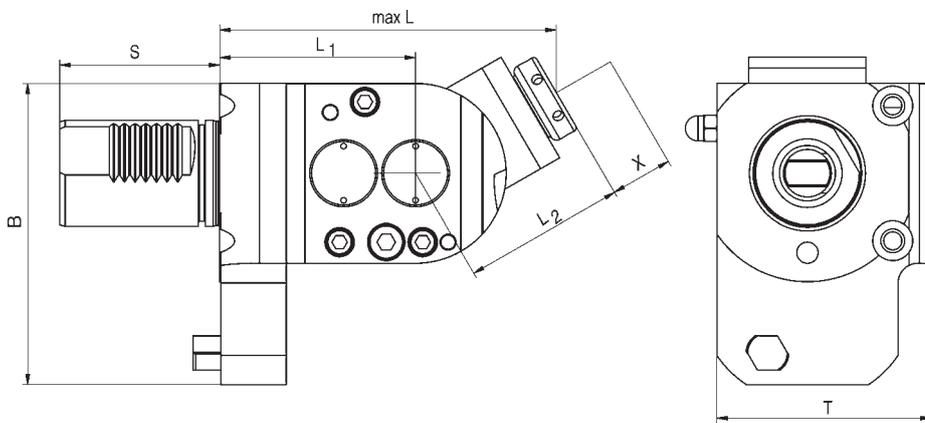
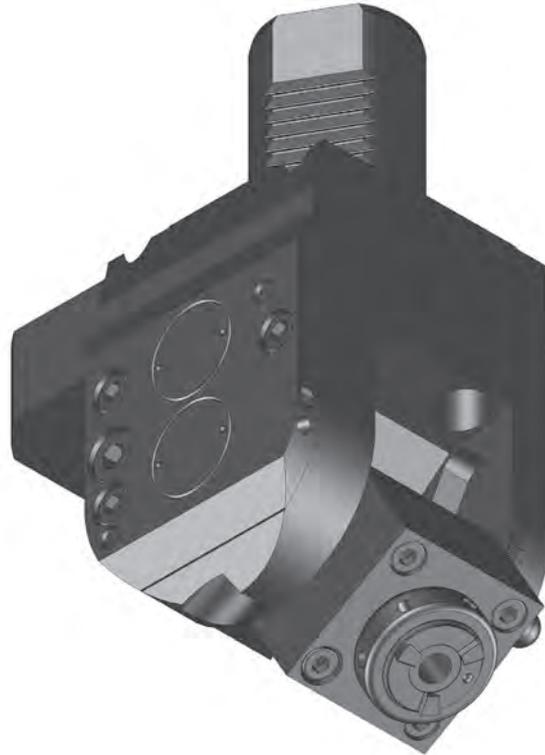
for Manufacturer	
<b>Mazak</b>	
for Machine type	
<b>NEXUS QTNX 100/100-II SQT 10</b>	
<b>QTNX</b>	<b>SQT</b>
100 M-12x	10 M/MS-12x
200 M/MS-16x	100 M/MS-12x
250 M/MS-16x	15 M/MS-16x
	200 M/MS-16x
	250 M/MS-16x
Data	
Turret type	Star-type Turret
Shank	VDI 40
Drive	Tang
SW	10 mm



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

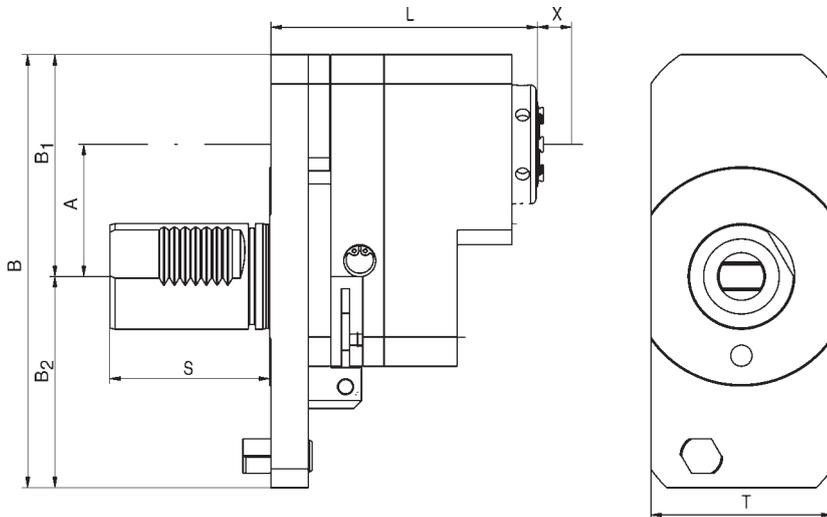
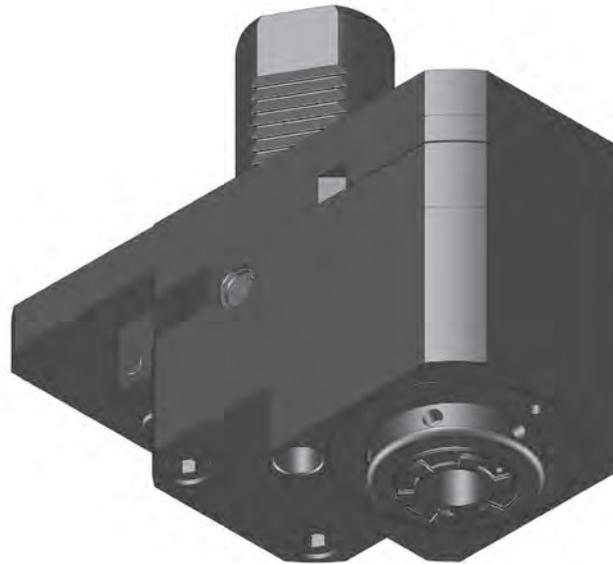
for Manufacturer	
<b>Mazak</b>	
for Machine type	
<b>NEXUS QTNX 100/100-II</b> <b>SQT 10</b>	
<b>QTNX</b>	<b>SQT</b>
100 M-12x	10 M/MS-12x
200 M/MS-16x	100 M/MS-12x
250 M/MS-16x	15 M/MS-16x
	200 M/MS-16x
	250 M/MS-16x
Data	
Turret type	Star-type Turret
Shank	VDI 40
Drive	Tang
SW	10 mm



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	Rotating direction
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 $\pm 90^\circ$

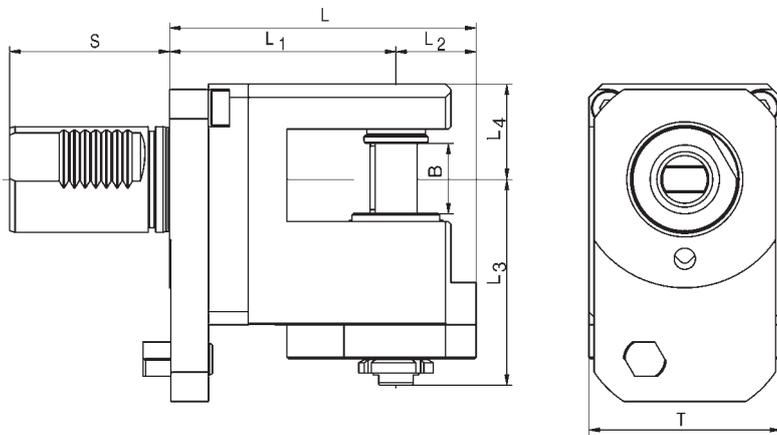
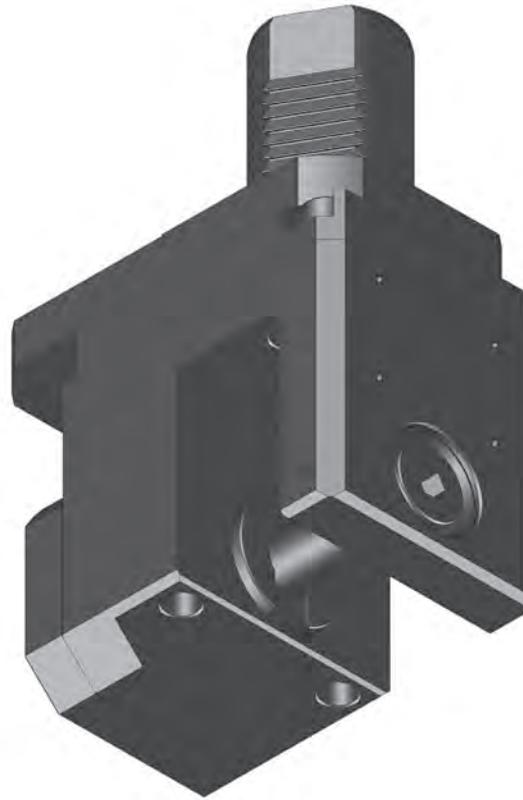
for Manufacturer	
<b>Mazak</b>	
for Machine type	
<b>NEXUS QTNX 100/100-II</b> <b>SQT 10</b>	
<b>QTNX</b>	<b>SQT</b>
100 M-12x	10 M/MS-12x
200 M/MS-16x	100 M/MS-12x
250 M/MS-16x	15 M/MS-16x
	200 M/MS-16x
	250 M/MS-16x
Data	
Turret type	Star-type Turret
Type	$\pm 90^\circ$ continuous adjustable
Shank	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	Rotating direction
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	
<b>Mazak</b>	
for Machine type	
<b>NEXUS QTNX 100/100-II SQT 10</b>	
<b>QTNX</b>	<b>SQT</b>
100 M-12x	10 M/MS-12x
200 M/MS-16x	100 M/MS-12x
250 M/MS-16x	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.	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
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

\* Saw blade diameter max. = 80 mm

# Mazak

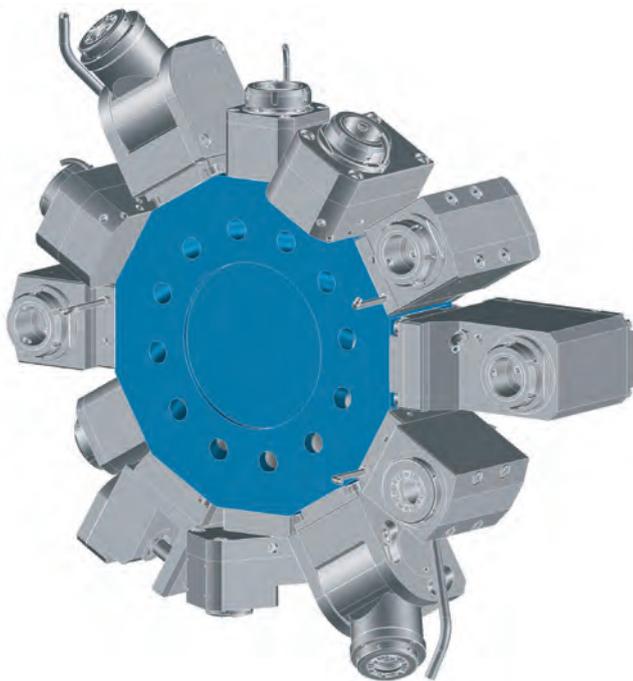
## QUICK TURN NEXUS 200/250, SUPER QUICK TURN 15/18, SUPER QUADREX 200/250

### Data

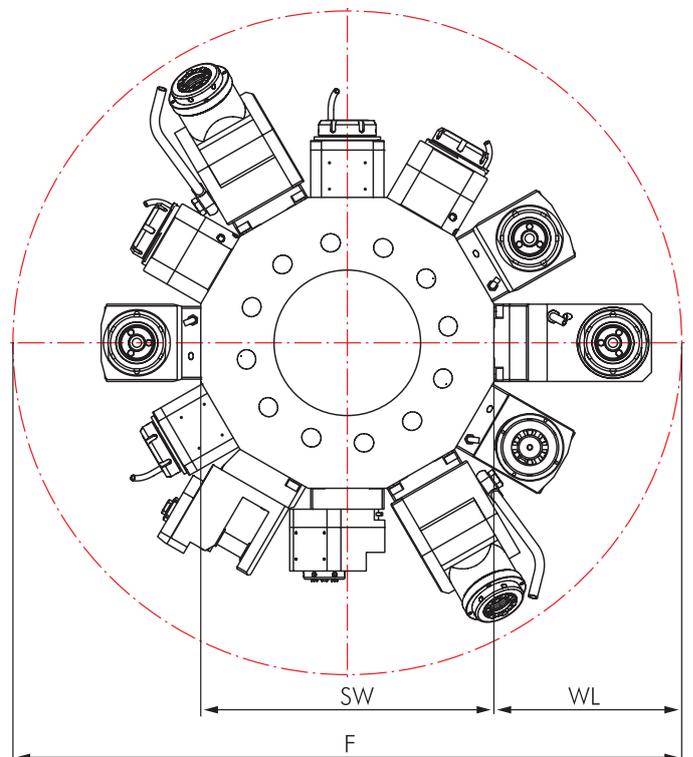
Machine type Series	Turret Stations
<b>QTNX 200/200-II</b> M / MY / MS / MSY	12
<b>QTNX 250/250-II</b> M / MY / MS / MSY	12
<b>SQ 200/250</b>	12
<b>SQT 15</b> M / MS	12
<b>SQT 18</b> M / MS	12
<b>SQT 200</b> M / MS	12
<b>SQT 250</b> M / MS	12



### Star-type Turret VDI 40



### Interference Circles



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

# Mazak

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

### Driven Toolholders

	Page		Page
<b>Straight Unit, Offset Type</b>	18		
		<b>Y-Unit, adjustable <math>\pm 90^\circ</math></b>	22
			
<b>Angle Unit</b>	19		
		<b>Saw Blade Holder</b>	23
			
<b>Angle Unit, 2-Axis</b>	20		
		<b>Straight Unit, Twin type</b>	24
			
<b>Angle Unit, adjustable 0-100°</b>	21		
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### Options and Accessories

<b>mi Toolholders</b>		mi System Description Toolholders Accessories	83 84-88 89-90
<b>Static Toolholders for MAZAK</b>		Static Toolholders Accessories	71-79 80-81
<b>Accessories</b>		Collets DIN 6499 Threading Collets Wrenches Clamping Nuts Sleeves and Bushings	91 91 91 91 93



#### Delivery information

Driven toolholders with mi quick-change interface are supplied with operating wrench (see spare parts on page 90).  
Driven toolholders with other interfaces are supplied without clamping wrench (see accessories on page 91).

# Straight Unit, Offset and without Offset Type

Connectable macrodrives with **BLUECOMPETENCE** » mimatic mi » PolyMILL » TriMILL » TrioCut » PolyREAM

for Manufacturer

**Mazak**

for Machine type

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

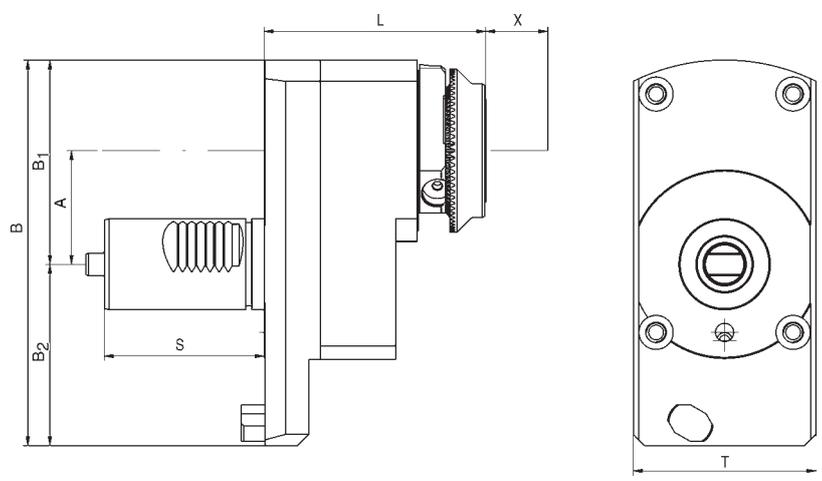
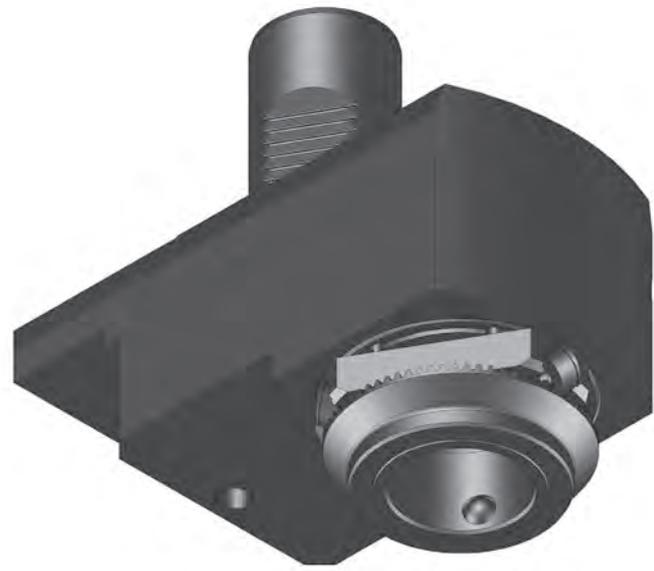
QTNX	SQT
200 M/MS-12x	15 M/MS-12x
250 M/MS-12x	18 M/MS-12x
	200 M/MS-12x
	250 M/MS-12x

Dimensions

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

Modular Interfaces

**mimaticMi**  
**mimaticCAPTO**



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	Rotating direction
124034	ER 32	1,0-20	50 Nm	6.500 / 6.500	i = 1:1	external	80,0	90,0	50	170	90	80	70	80	↺ ↻
124259	ER 32*	1,0-20	50 Nm	6.500 / 6.500	i = 1:1	internal	80,0	90,0	50	170	90	80	70	80	↺ ↻
123688	mi 50	-	50 Nm	6.500 / 6.500	i = 1:1	internal	-	97,0	50	170	90	80	70	80	↺ ↻
167294	HF 20	6,0-20	50 Nm	6.500 / 6.500	i = 1:1	internal	-	89,0	50	170	90	80	70	80	↺ ↻
124067	ER 25	0,5-16	25 Nm	6.500 / 13.000	i = 1:2	external	80,0	90,0	50	170	90	80	70	80	↺ ↻
100277	ER 25*	0,5-16	25 Nm	6.500 / 13.000	i = 1:2	internal	80,0	90,0	50	170	90	80	70	68	↺ ↻
124375**	ER 32	1,0-20	50 Nm	6.500 / 6.500	i = 1:1	external	80,0	90,0	50	132	90	42	70	80	↺ ↻
124025	mi 50	-	50 Nm	6.500 / 6.500	i = 1:1	external	80,0	97,0	50	170	90	80	70	80	↺ ↻
123711	mi 40	-	-	6.500 / 13.000	i = 1:2	internal	80,0	112,0	50	170	90	80	70	80	↺ ↻
124033	ER 25	0,5-16	50 Nm	6.500/6.500	i = 1:1	external	80,0	90,0	50	170	90	80	70	80	↺ ↻
173063	C4	-	50 Nm	6.500/6.500	i = 1:1	internal	76,5	93,5	50	172	90	80	70	84	↺ ↻
Without offset:															
124256	ER 32*	1,0-20	80 Nm	6.500/6.500	i = 1:1	internal	85,0	85,0	0	-	-	-	70	75	↺ ↻
123895	C 4	-	80 Nm	6.500/6.500	i = 1:1	external	90,0	80,0	0	90	-	-	70	84	↺ ↻

# Angle Unit

for Manufacturer

**Mazak**

for Machine type

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

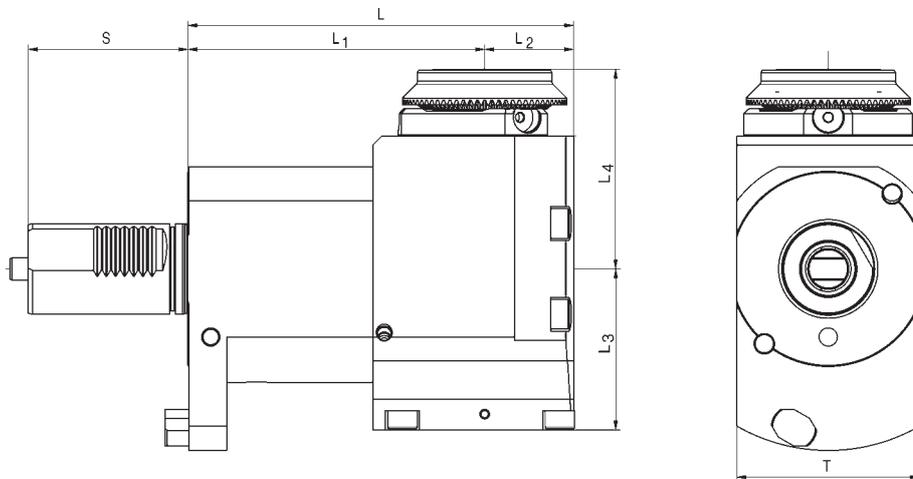
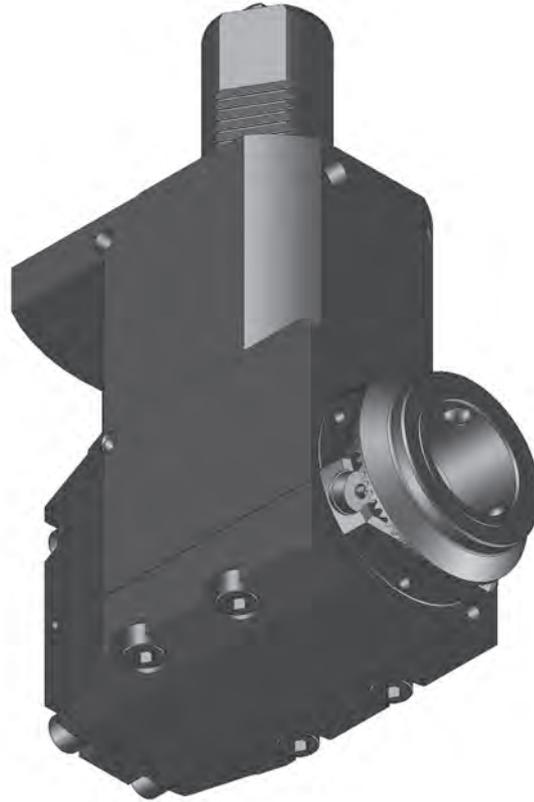
QTNX	SQT
200 M/MS-12x	15 M/MS-12x
250 M/MS-12x	18 M/MS-12x
	200 M/MS-12x
	250 M/MS-12x

Dimensions

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

Modular Interfaces

**mimaticMi**  
**mimaticCAPTO**



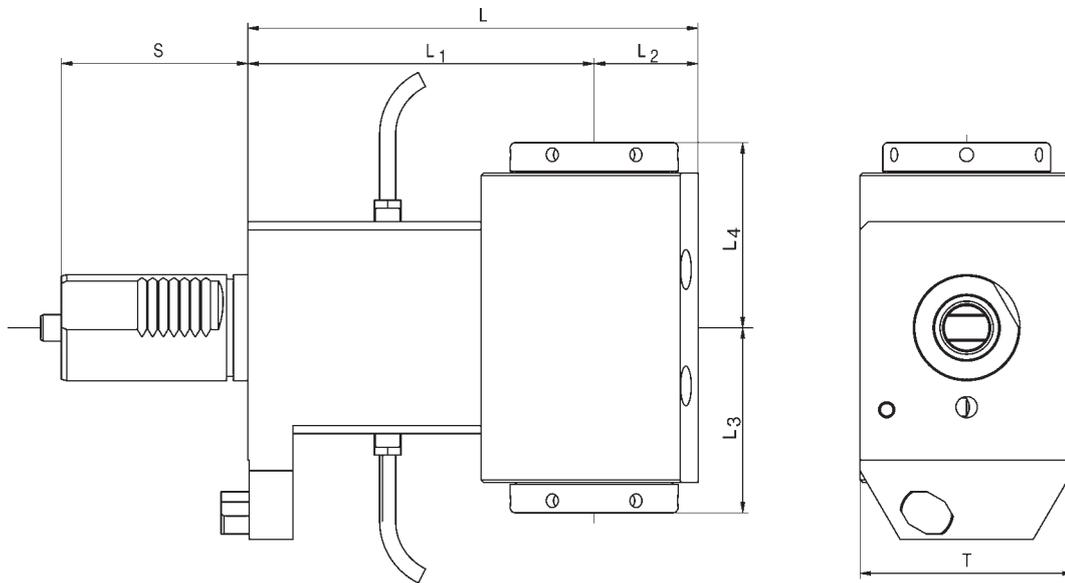
Order No.	Tool holder	Clamping range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	L mm	L1 mm	L2 mm	L3 mm	L4 mm	S mm	T mm	Rotating direction
124635	ER 32	1,0-20	50 Nm	6.500 / 6.500	i = 1:1	external	169	130	39	69,0	70,0	70	80	↺ ↻
124691	ER 25	0,5-16	25 Nm	6.500 / 13.000	i = 1:2	external	164	130	34	40,0	78,0	70	80	↺ ↻
124918	ER 32*	1,0- 20	25 Nm	6.500 / 13.000	i = 1:2	internal	169	130	39	72,5	91,0	70	80	↺ ↻
124873	ER 32*	1,0-20	50 Nm	6.500 / 6.500	i = 1:1	internal	169	130	39	75,5	70,0	70	80	↺ ↻
124875	mi 50	-	50 Nm	6.500 / 6.500	i = 1:1	internal	173	130	43	71,0	88,0	70	80	↺ ↻
124636**	ER 32	1,0-20	50 Nm	6.500 / 6.500	i = 1:1	external	169	130	39	69,0	70,0	70	80	↺ ↻
124874**	ER 32*	1,0-20	50 Nm	6.500 / 6.500	i = 1:1	internal	169	130	39	75,5	70,0	70	80	↺ ↻
101584	ER 25*	0,5-16	25 Nm	6.500 / 13.000	i = 1:2	internal	169	130	39	72,5	75,0	70	80	↺ ↻
124639	mi 50	-	50 Nm	6.500 / 6.500	i = 1:1	external	173	130	43	71,0	88,0	70	80	↺ ↻
124919	mi 40	-	25 Nm	6.500 / 13.000	i = 1:2	internal	169	130	39	72,5	97,0	70	80	↺ ↻
167296	HF 20	-	50 Nm	6.500 / 6.500	i = 1:1	internal	169	130	39	75,5	82,0	70	80	↺ ↻
124872	C 4	-	50 Nm	6.500 / 6.500	i = 1:1	internal	168	126	42	71,0	74,5	70	85	↺ ↻
With offset 35 mm:														
166541**	ER 32*	1,0-20	50 Nm	6.500 / 6.500	i = 1:1	internal	169	130	39	35,0	110,5	70	80	↺ ↻

\* With clamping nuts with sealing, seals see page 92

\*\* Type for sub-spindle

# Angle Unit, 2-Axis

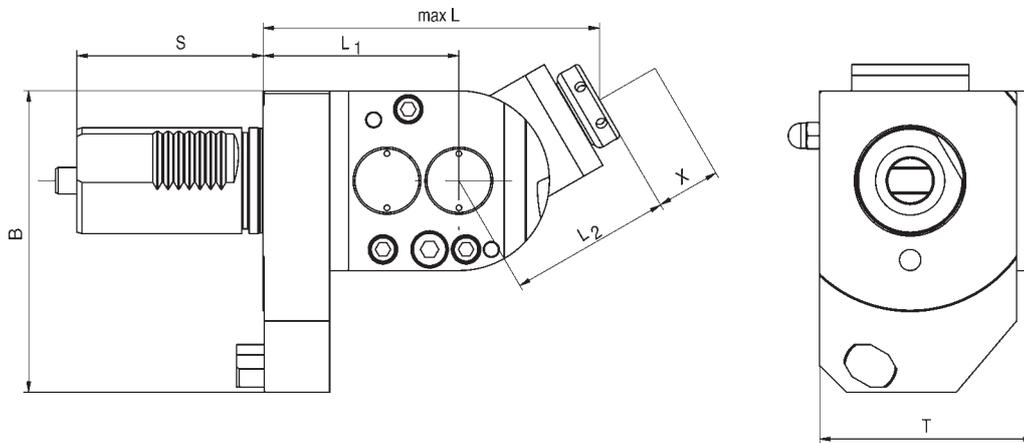
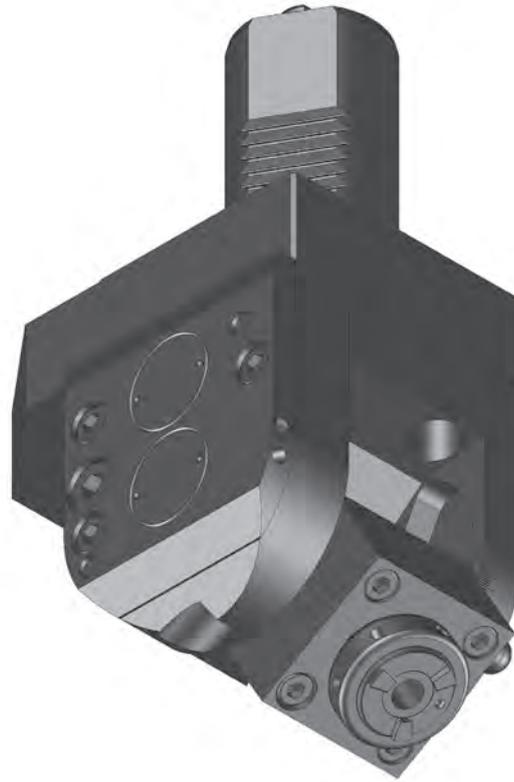
for Manufacturer	
<b>Mazak</b>	
for Machine type	
<b>NEXUS QTNX 200/250, SQT 15/18 + SUPER QUADREX 200/250</b>	
<b>QTNX</b>	<b>SQT</b>
200 M/MS-12x	15 M/MS-12x
250 M/MS-12x	18 M/MS-12x
	200 M/MS-12x
	250 M/MS-12x
Dimensions	
Turret type	Star-type Turret
Shank	VDI 40
Drive	Tang
SW	10 mm



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
124632**	2x ER 25	0,5-16	25 Nm	6.500 / 6.500	i = 1:1	external	164	130	34	62	62	70	70
124638	2x ER 32	1,0-20	70 Nm	6.500 / 6.500	i = 1:1	external	169	130	39	70	70	70	80
133725	2x ER 32*	1,0-20	70 Nm	6.500 / 6.500	i = 1:1	internal	169	130	39	70	93	70	80
167955***	2x 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	
<b>Mazak</b>	
for Machine type	
<b>NEXUS QTNX 200/250, SQT 15/18 + SUPER QUADREX 200/250</b>	
<b>QTNX</b>	<b>SQT</b>
200 M/MS-12x	15 M/MS-12x
250 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	X mm	L mm	L1 mm	L2 mm	B mm	S mm	T mm	Rotating direction
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 $\pm 90^\circ$

Connectable in accordance with **BLUECOMPETENCE** » mimatic mi » PolyMILL » TriMILL » TrioCut » PolyREAM

for Manufacturer

**Mazak**

for Machine type

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

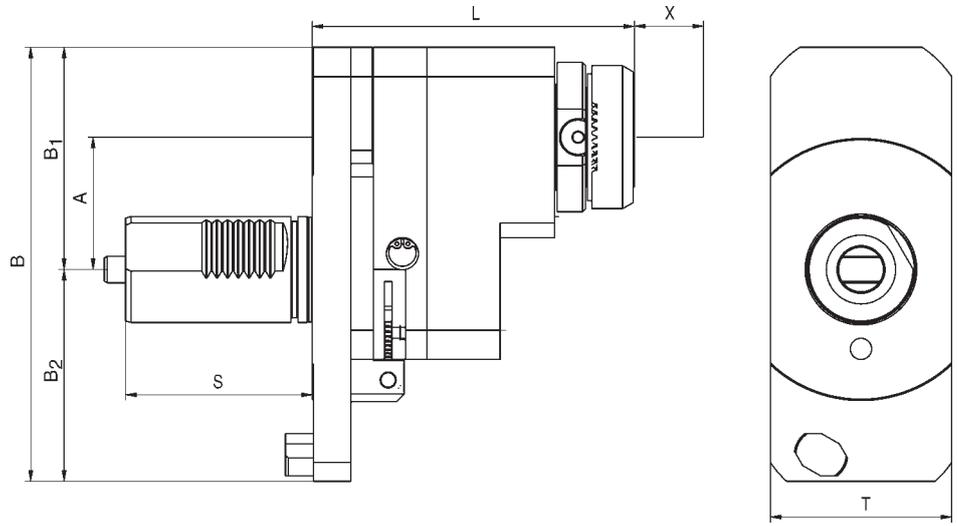
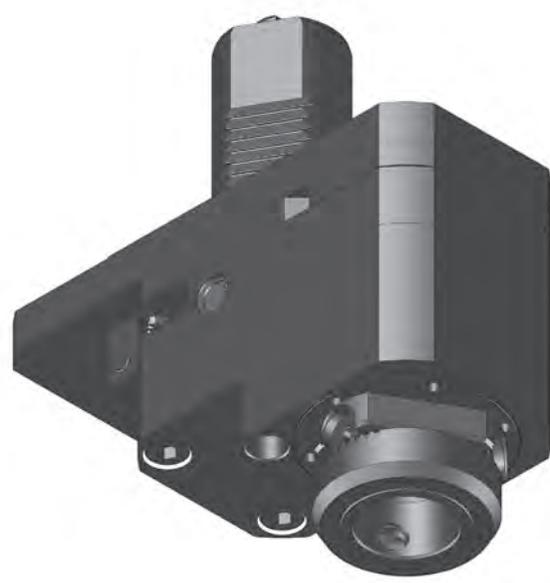
QTNX	SQT
200 M/MS-12x	15 M/MS-12x
250 M/MS-12x	18 M/MS-12x
	200 M/MS-12x
	250 M/MS-12x

Dimensions

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

Modular Interfaces

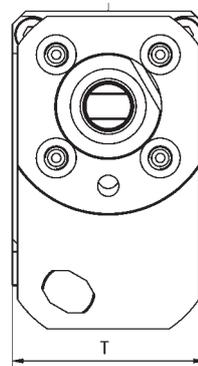
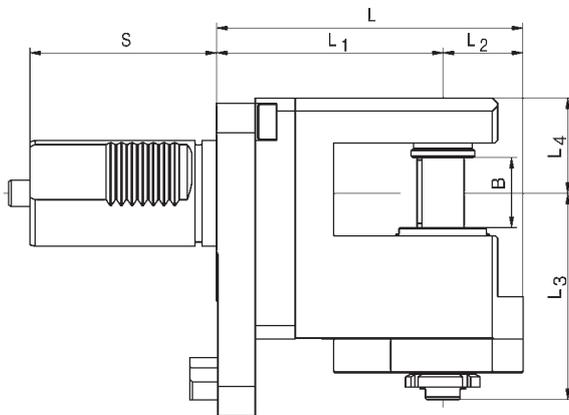
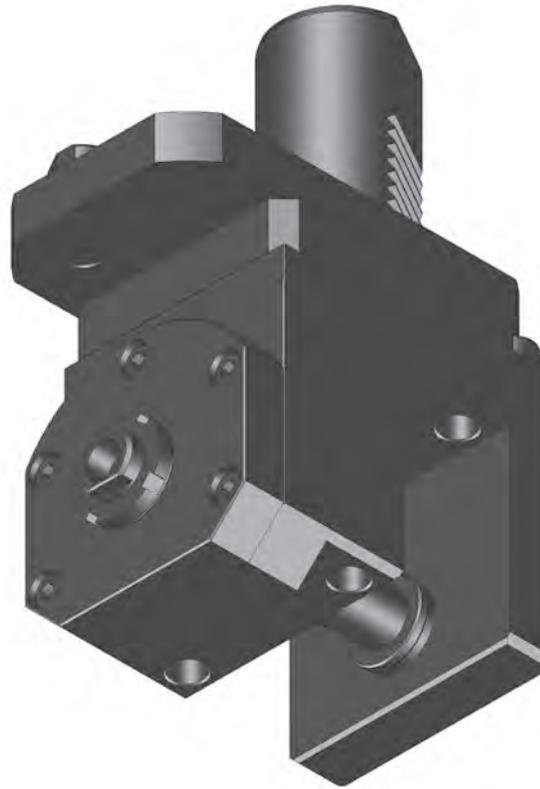
**mimaticMi**



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	Rotating direction
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	
<b>Mazak</b>	
for Machine type	
<b>NEXUS QTNX 200/250, SQT 15/18 + SUPER QUADREX 200/250</b>	
<b>QTNX</b>	<b>SQT</b>
200 M/MS-12x	15 M/MS-12x
250 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.	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
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

\* Saw blade diameter max. = 80 mm

\*\* Saw blade diameter max. = 100 mm

# Straight Unit, Twin Type

Connectable in accordance with  
**BLUECOMPETENCE**

» mimatic mi  
» PolyMILL » TriMILL

for Manufacturer

**Mazak**

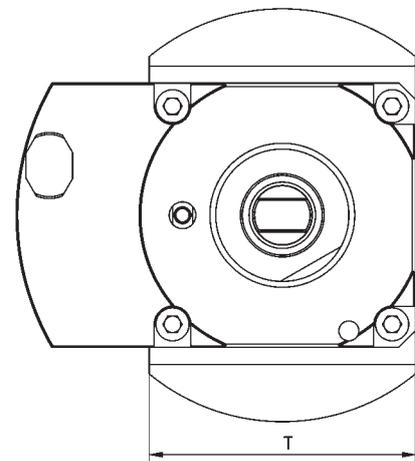
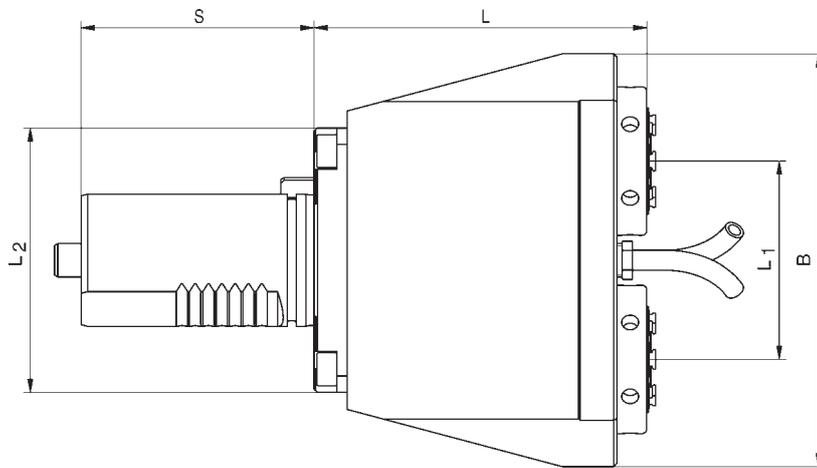
for Machine type

**NEXUS QTNX 200/250-II**

**QTNX**  
200 MY/MSY-12x  
250 MY/MSY-12x

Dimensions

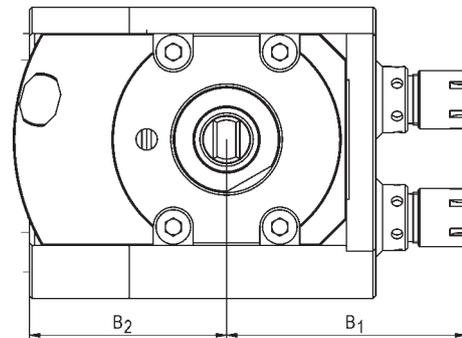
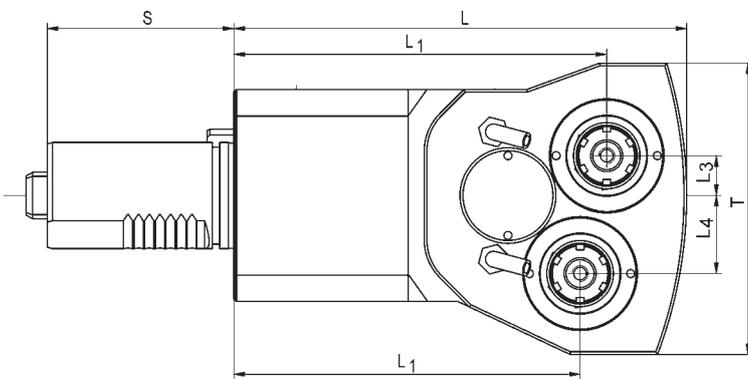
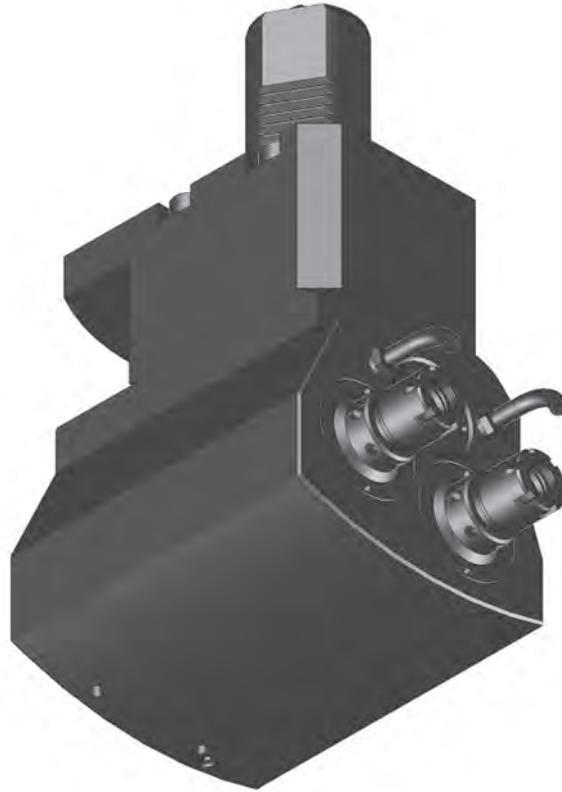
Turret type	Star-type Turret
Shank	VDI 40
Drive	Tang
SW	10 mm



Order No.	Tool Holder	Clamping Range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	L mm	L1 mm	L2 mm	B mm	S mm	T mm	Rotating direction
169636	2x ER 25*	0,5-16	2x 15 Nm	6.500 / 6.500	i = 1:1	external	100	60	80	125	70	80	↺ ↻
171059	2x ER 25*	0,5-16	2x 15 Nm	6.500 / 6.500	i = 1:1	internal	100	60	80	125	70	80	↻ ↺
171060	2x mi 40		2x 15 Nm	6.500 / 6.500	i = 1:1	internal	120	60	80	125	70	80	↻ ↺

# Angle Unit, Twin Type

for Manufacturer	
<b>Mazak</b>	
for Machine type	
<b>NEXUS QTNX 200/250-II</b>	
<b>QTNX</b> 200 MY/MSY-12x 250 MY/MSY-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	B1 mm	B2 mm	S mm	T mm	Rotating direction
173876	2x ER16	0,5-10	15 Nm	6.500 / 6.500	i = 1:1	external	170	140/130	30	15	29,44	90	74	70	110	↻ ↻
162911	2x ER16*	0,5-10	15 Nm	6.500 / 6.500	i = 1:1	internal	170	140/130	30	15	29,44	90	74	70	110	↻ ↻

\* With clamping nuts with sealing, seals see page 92

# Mazak

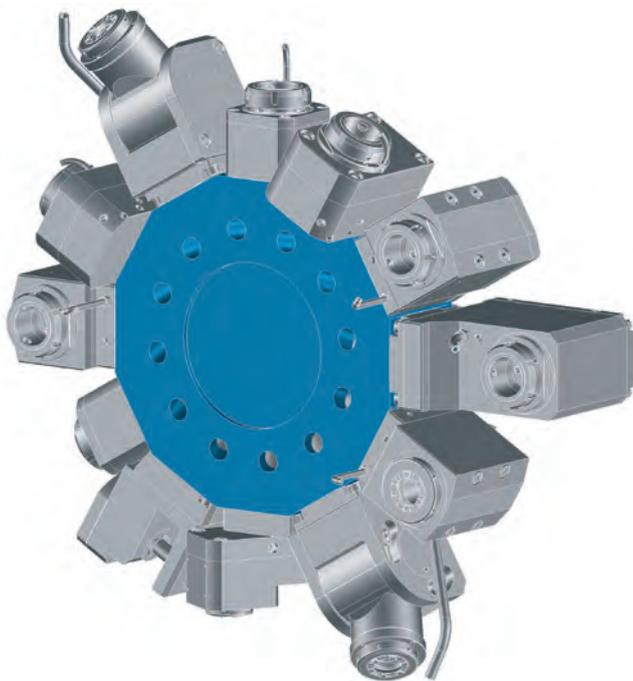
## QUICK TURN NEXUS 300/350/400/450 + SUPER QUICK TURN 28/30

### Data

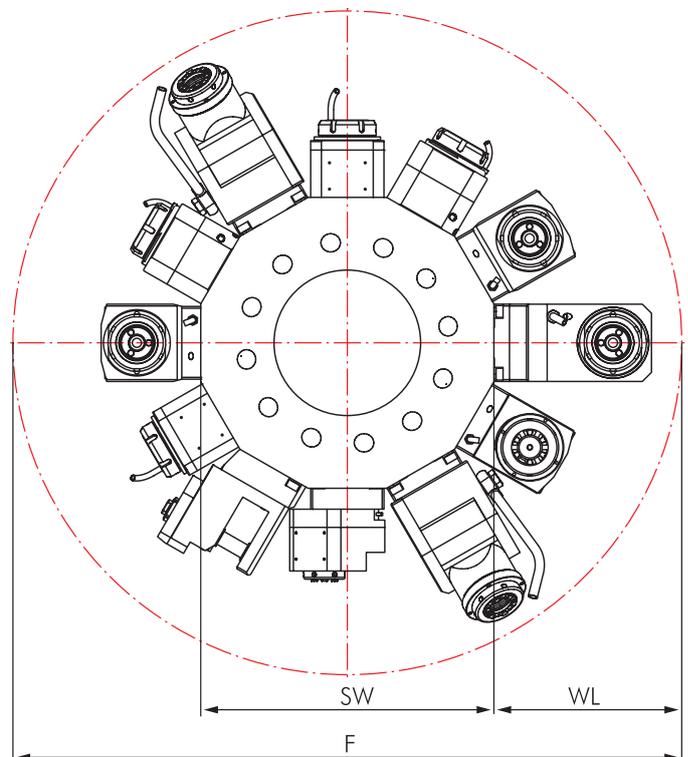
Machine type Series	Turret Stations
<b>QTNX 300/300-II M / MY</b>	12
<b>QTNX 350/350-II M / MY</b>	12
<b>QTNX 400/400-II M</b>	12
<b>QTNX 450/450-II M</b>	12
<b>SQT 28 M / MS</b>	12
<b>SQT 30 M / MS</b>	12
<b>SQT 300 M / MS</b>	12



### Star-type Turret VDI 50



### Interference Circles



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

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

**Driven Toolholders**

		Page		Page
<b>Straight Unit, Offset Type</b>		28	<b>Straight Unit, Twin type</b>	30
<b>Angle Unit</b>		29	<b>Angle Unit, Twin type</b>	31

**Options and Accessories**

<b>mi Toolholders</b>		mi System Description Toolholders Accessories	83 84-88 89-90
<b>Static Toolholders for MAZAK</b>		Static Toolholders Accessories	71-79 80-81
<b>Accessories</b>		Collets DIN 6499 Threading Collets Wrenches Clamping Nuts Sleeves and Bushings	91 91 91 91 93



**Delivery information**

Driven toolholders with mi quick-change interface are supplied with operating wrench (see spare parts on page 90).  
Driven toolholders with other interfaces are supplied without clamping wrench (see accessories on page 91).

# Straight Unit, Offset Type

Connectible in accordance with **BLUECOMPETENCE** » mimatic mi » PolyMILL » TriMILL » TrioCut » PolyREAM

for Manufacturer

**Mazak**

for Machine type

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

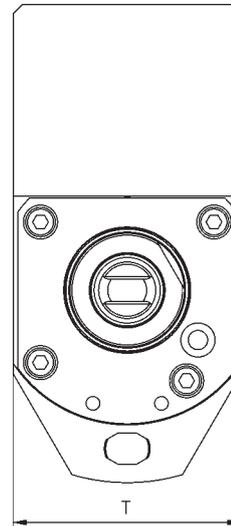
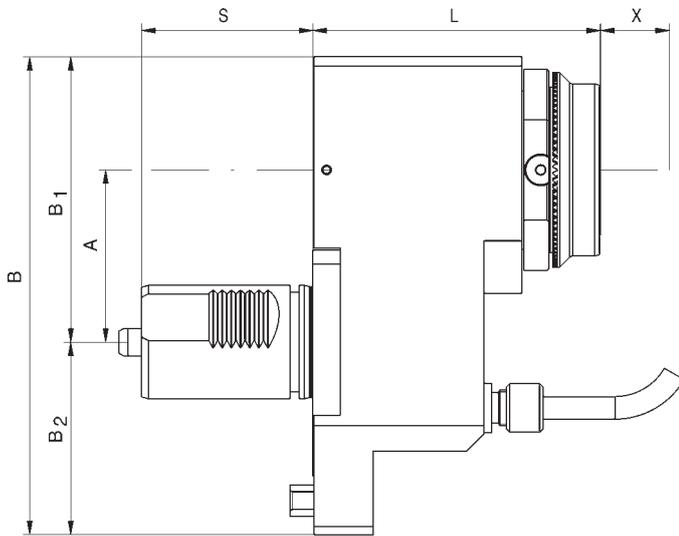
QTNX	SQT
300 M/MY-12x	28 M/MS-12x
350 M/MY-12x	30 M/MS-12x
400 M-12x	300 M/MS-12x
450 M-12x	

Dimensions

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

Modular Interfaces

**mimaticMi**  
**mimaticCAPTO**



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	Rotating direction
124037	ER 40	2,0-26	100 Nm	6.500 / 6.500	i = 1:1	external	82,0	133	76	208	126	82	75	100	↺ ↻
123690	ER 40*	2,0-26	100 Nm	6.500 / 6.500	i = 1:1	internal	74,0	141	76	208	126	82	75	100	↺ ↻
123691	mi 63	-	100 Nm	6.500 / 6.500	i = 1:1	internal	95,0	126	76	208	126	82	75	100	↺ ↻
131538	SK/CAT 40	-	100 Nm	6.500 / 6.500	i = 1:1	external	116,0	99	76	208	126	82	75	96	↺ ↻
103663	SK/CAT 40	-	100 Nm	6.500 / 6.500	i = 1:1	internal	106,5	108	75	223	126	82	75	100	↺ ↻
173558	C 5	-	100 Nm	6.500 / 6.500	i = 1:1	internal	105,0	110	75	223	65	158	75	100	↺ ↻
Without offset:															
102810	C 5	-	80 Nm	6.500 / 6.500	i = 1:1	internal	108,0	112	-	100	-	-	75	100	↺ ↻

# Angle Unit

for Manufacturer

**Mazak**

for Machine type

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

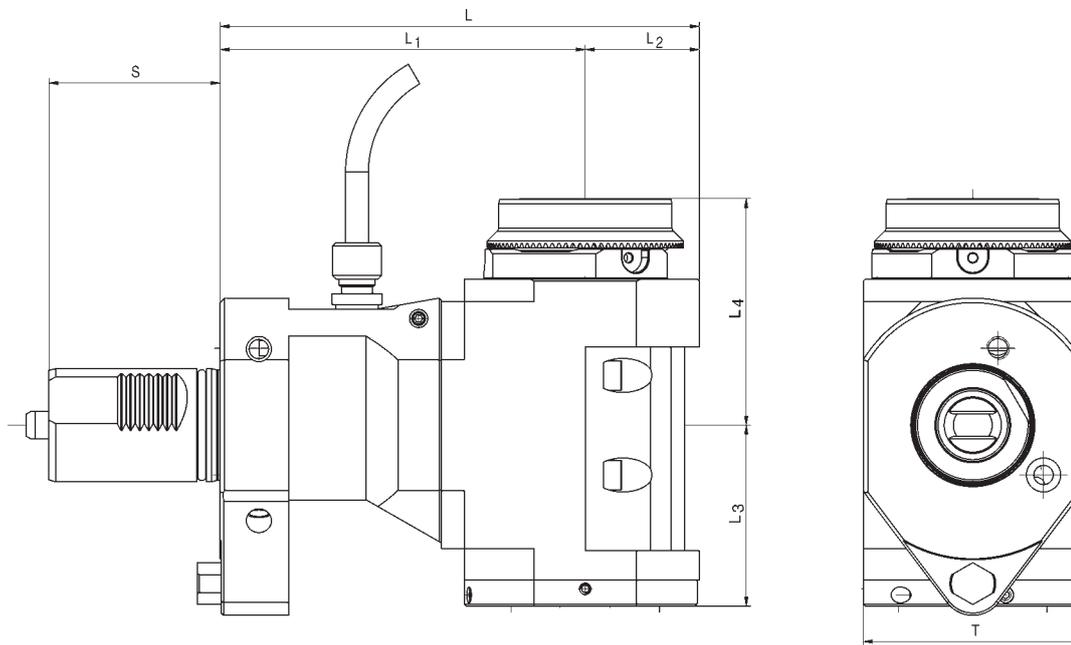
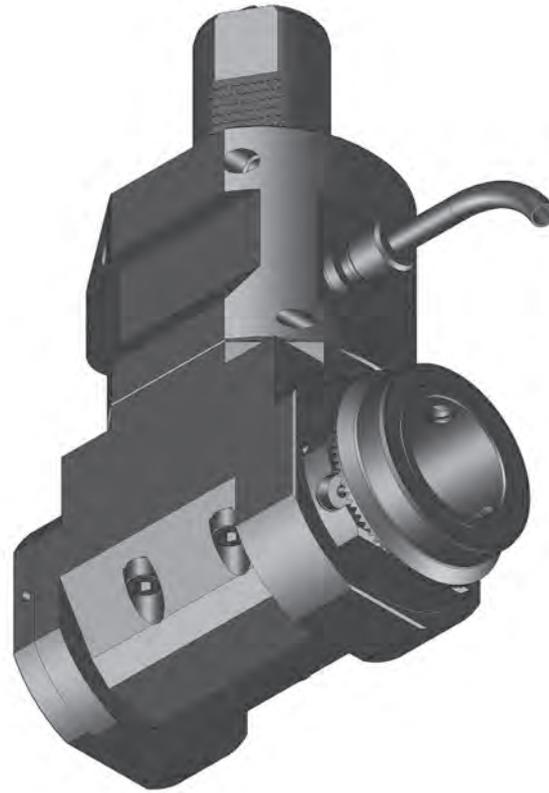
QTNX	SQT
300 M/MY-12x	28 M/MS-12x
350 M/MY-12x	30 M/MS-12x
400 M-12x	300 M/MS-12x
450 M-12x	

Dimensions

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

Modular Interfaces

**mimaticMi**  
**mimaticCAPTO**

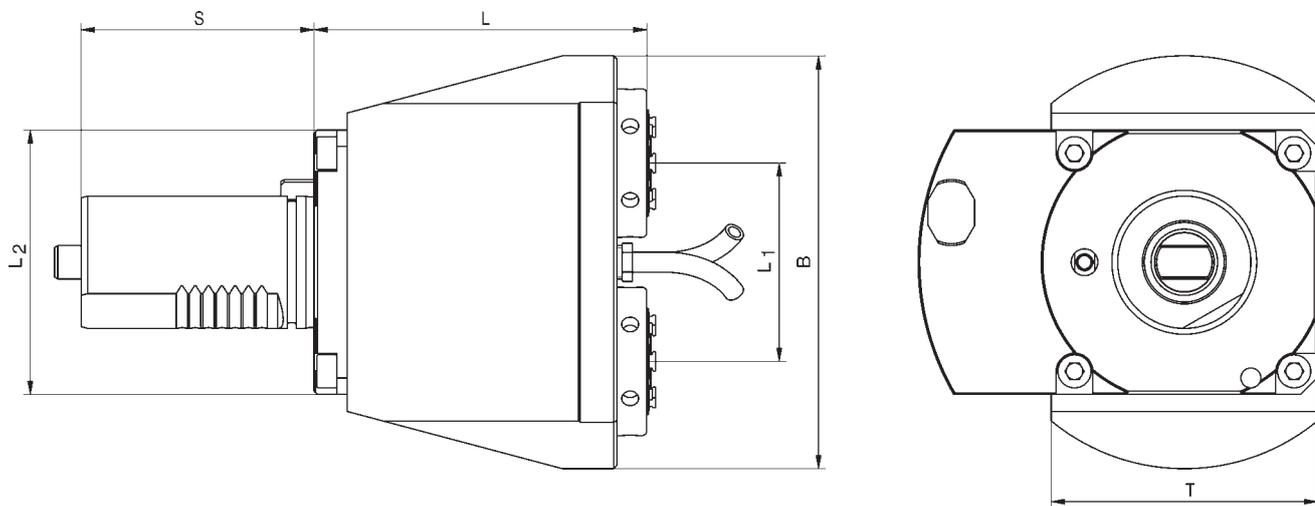


Order No.	Tool holder	Clamping range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	L mm	L1 mm	L2 mm	L3 mm	L4 mm	S mm	T mm	Rotating direction
124641	ER 40	2-30	100 Nm	6.500 / 6.500	i = 1:1	external	210	160	50	91,5	119,5	75	96	↻ ↻
124877	ER 40*	2-30	100 Nm	6.500 / 6.500	i = 1:1	internal	210	160	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	103,0	75	96	↻ ↻
131591	SK/CAT 40	-	100 Nm	6.500 / 6.500	i = 1:1	external	210	160	50	80,0	81,0	75	96	↻ ↻
103667	SK/CAT 40	-	100 Nm	6.500 / 6.500	i = 1:1	internal	210	160	50	80,0	81,0	75	96	↻ ↻
131605	C 5	-	100 Nm	6.500 / 6.500	i = 1:1	internal	215	160	55	85,0	65,0	75	130	↻ ↻

\* With clamping nuts with sealing, seals see page 92

# Straight Unit, Twin Type

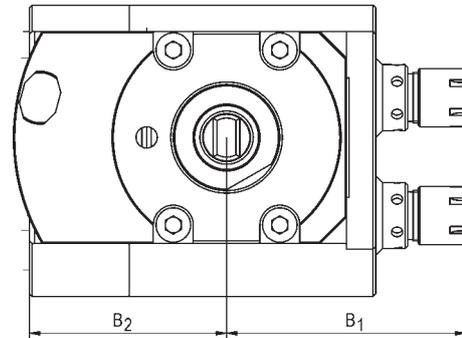
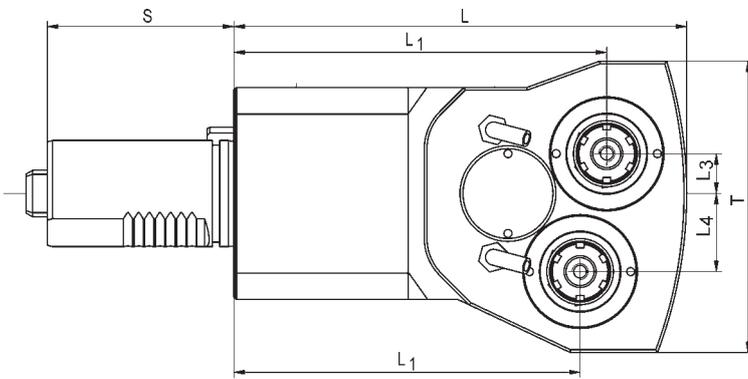
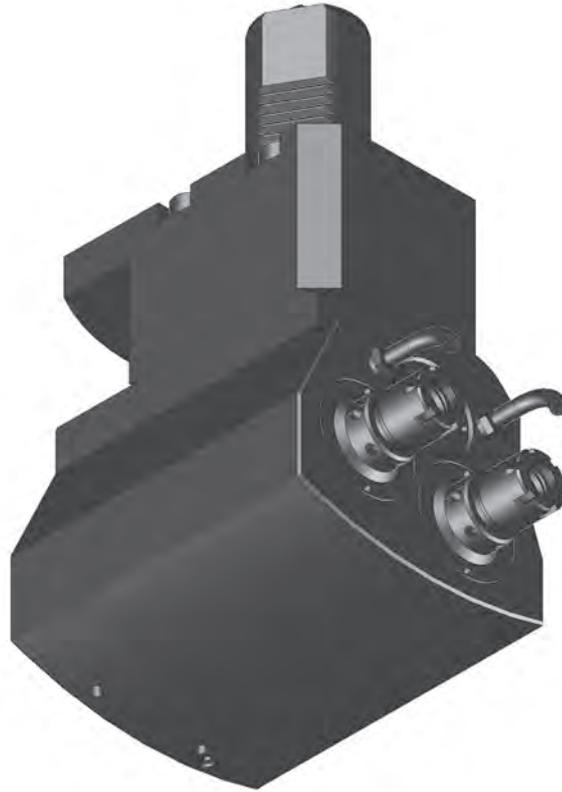
for Manufacturer	
<b>Mazak</b>	
for Machine type	
<b>NEXUS QTNX 300/350-II</b>	
<b>QTNX</b> 300 MY/MSY-12x 350 MY/MSY-12x	
Dimensions	
Turret type	Star-type Turret
Shank	VDI 50
Drive	Tang
SW	12 mm



Order No.	Tool Holder	Clamping Range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	L mm	L1 mm	L2 mm	B mm	S mm	T mm	Rotating direction
171042	2x ER 32	1,0-20	2x 20 Nm	6.500 / 6.500	i = 1:1	external	125	75	96	150	75	90	↺ ↻
171063	2x ER 32*	1,0-20	2x 20 Nm	6.500 / 6.500	i = 1:1	internal	125	75	96	150	75	90	↻ ↺
171064	2x mi 50		2x 20 Nm	6.500 / 6.500	i = 1:1	internal	140	75	96	150	75	90	↻ ↺

# Angle Unit, Twin Type

for Manufacturer	
<b>Mazak</b>	
for Machine type	
<b>NEXUS QTNX 300/350-II</b>	
<b>QTNX</b> 300 MY/MSY-12x 350 MY/MSY-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	B1 mm	B2 mm	S mm	T mm	Rotating direction
162912	2x ER25	0,5-10	20 Nm	6.500 / 6.500	i = 1:1	external	170	140/130	30	35	47,47	93	94	75	140	↻ ↻
162913	2x ER25*	0,5-10	20 Nm	6.500 / 6.500	i = 1:1	internal	170	140/130	30	35	47,47	93	94	75	140	↻ ↻

\* With clamping nuts with sealing, seals see page 92

# Mazak

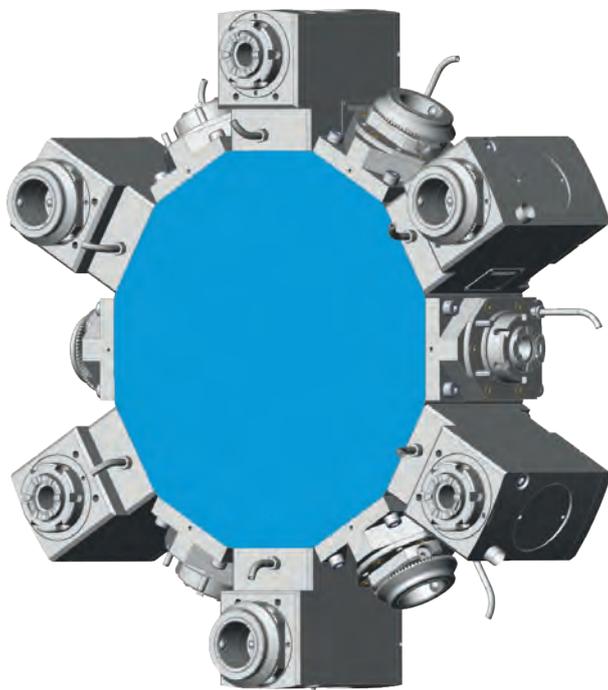
## QUICK TURN SMART 100 M / 200 M

### Data

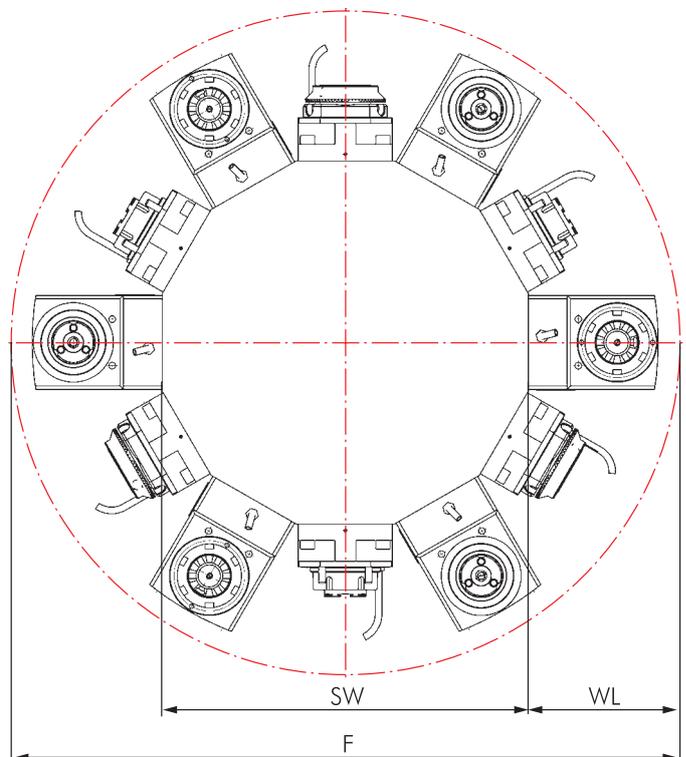
Machine Type Series	Turret Stations
<b>QTS 100 M</b>	12
<b>QTS 200 M</b>	12



### Star-Type Turret BMT



### Interference Circles



Machine type Series	F	SW	WL
<b>QTS 100 M</b>	564	330	117
<b>QTS 200 M</b>	580	330	125

## Driven Toolholders

	Page		Page
<b>Straight Unit</b>			
	34		
<b>Angle Unit</b>			
			35

## Options and Accessories

<b>mi Toolholders</b>		mi System Description	83
		Toolholders	84-88
		Accessories	89-90
<b>Accessories</b>		Collets DIN 6499	91
		Threading Collets	91
		Wrenches	91
		Clamping Nuts	91
		Sleeves and Bushings	93



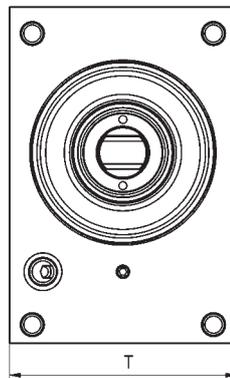
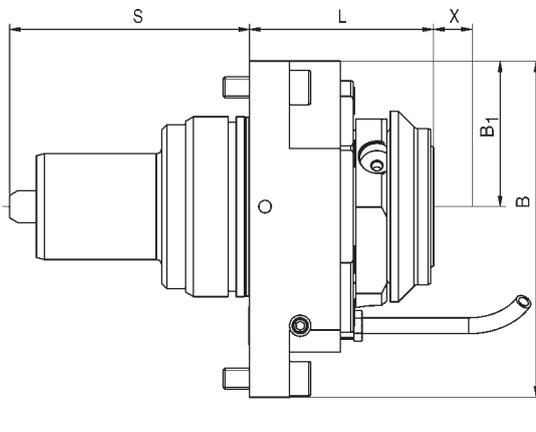
### Delivery information

Driven toolholders with mi quick-change interface are supplied with operating wrench (see spare parts on page 90).  
Driven toolholders with other interfaces are supplied without clamping wrench (see accessories on page 91).

# Straight Unit

Connectable in accordance with **BLUECOMPETENCE** » mimatic mi » PolyMILL » TriMILL » TrioCut » PolyREAM

for Manufacturer	
<b>Mazak</b>	
for Machine Type	
<b>QUICK TURN SMART 100 M/200M</b>	
<b>QTS</b>	
100M 200M	
Dimensions	
Turret Type	Star-Type Turret
Shank	BMT Ø 68 mm
Drive	Tang
SW	12 mm
Modular Interfaces	
<b>mimaticMi</b>	



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	Rotating direction
162920	ER 25	0,5-16	80 Nm	6.500 / 6.500	i = 1:1	external	35	90	85	42,5	80	127	↺ ↻
176781	ER 25*	0,5-16	80 Nm	6.500 / 6.500	i = 1:1	internal	35	90	85	42,5	80	127	↻ ↺
162921	ER 32	1,0-20	80 Nm	6.500 / 6.500	i = 1:1	external	44	81	85	42,5	80	127	↺ ↻
176783	ER 32*	1,0-20	80 Nm	6.500 / 6.500	i = 1:1	internal	44	81	85	42,5	80	127	↻ ↺
174673	ER 32	1,0-20	80 Nm	6.500 / 6.500	i = 1:1	external	65	60	85	42,5	80	127	↺ ↻
174674	ER 32*	1,0-20	80 Nm	6.500 / 6.500	i = 1:1	internal	65	60	85	42,5	80	127	↻ ↺
174901	mi 50	-	80 Nm	6.500 / 6.500	i = 1:1	internal	56	69	85	42,5	80	127	↺ ↻

# Angle Unit

for Manufacturer

**Mazak**

for Machine Type

**QUICK TURN SMART 100 M/200M**

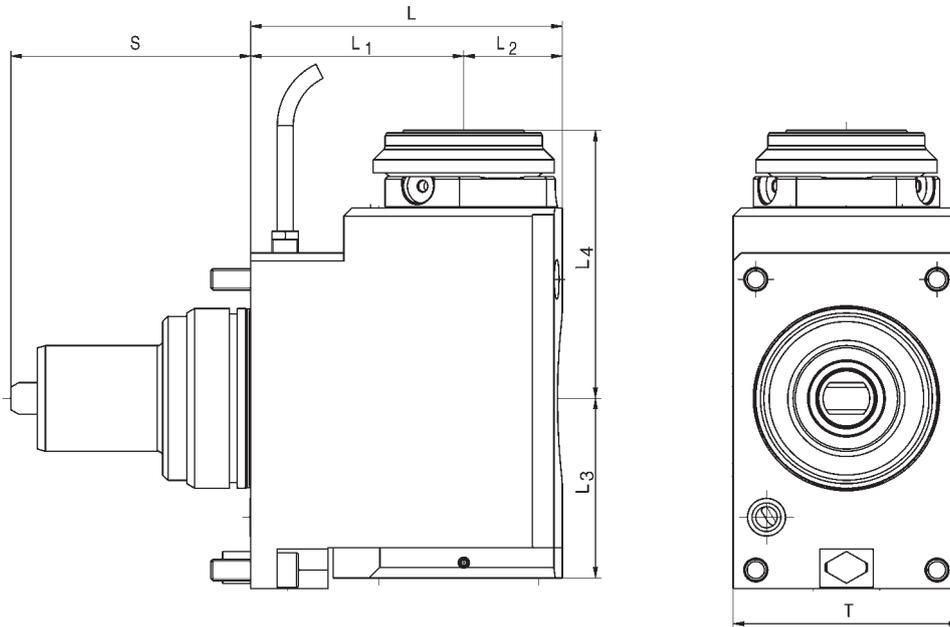
**QTS**  
100M  
200M

Dimensions

Turret Type            Star-Type Turret  
Shank                    BMT Ø 68 mm  
Drive                     Tang  
SW                        12 mm

Modular Interfaces

**mimaticMi**



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	Rotating direction
174675	ER 32	1,0-20	70 Nm	6.500 / 6.500	i = 1:1	external	117	80	37	69	86,0	80	85	↺ ↻
174676	ER 32*	1,0-20	70 Nm	6.500 / 6.500	i = 1:1	internal	117	80	37	69	86,0	80	85	↻ ↺
174902	mi 50	-	70 Nm	6.500 / 6.500	i = 1:1	internal	117	80	37	69	101,5	80	85	↺ ↻

\* With clamping nuts with sealing, seals see page 92

# Mazak

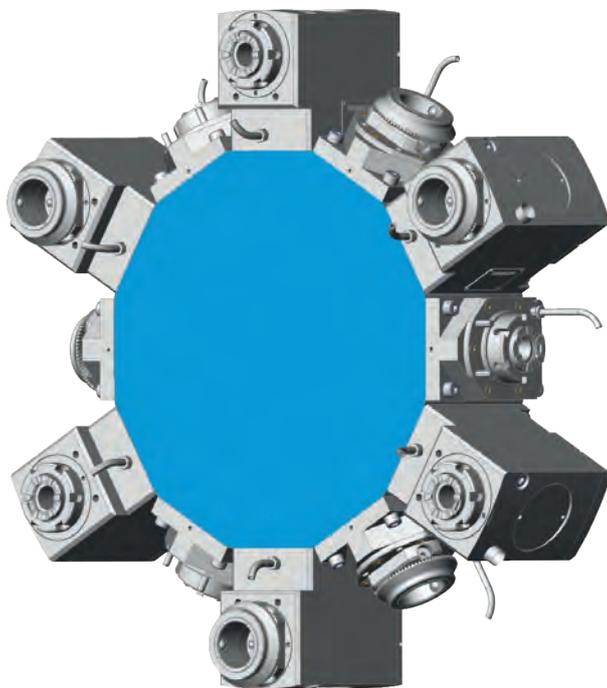
## QUICK TURN SMART 300 M / 350 M

### Data

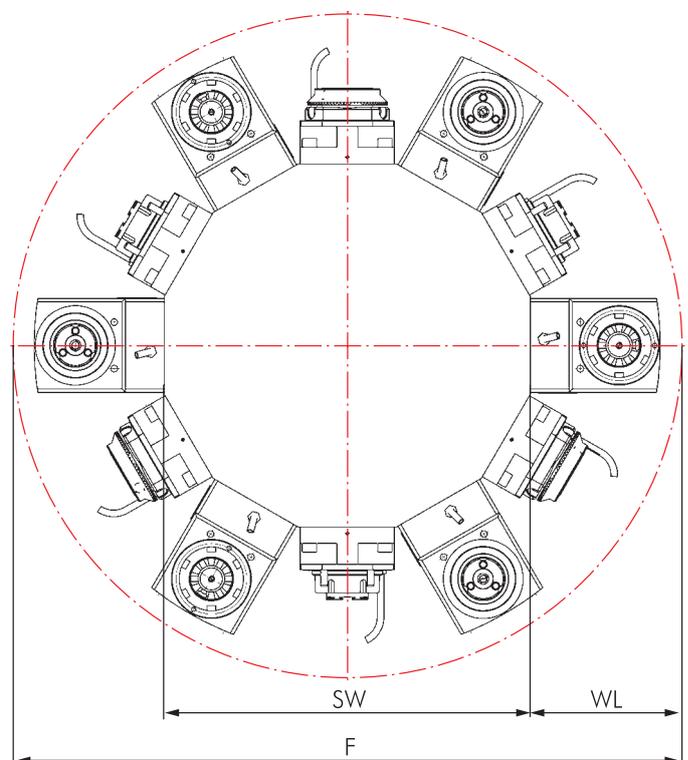
Machine Type Series	Turret Stations
<b>QTS 300 M</b>	12
<b>QTS 350 M</b>	12



### Star-Type Turret BMT



### Interference Circles



Machine type Series	F	SW	WL
<b>QTS 300 M</b>	700	380	160
<b>QTS 350 M</b>	700	380	160

# Mazak

## QUICK TURN SMART 300 M / 350 M

### Driven Toolholders

	Page		Page
<b>Straight Unit</b>			38
<b>Angle Unit</b>			39
<b>Angle Unit, adjustable 0-100°</b>			40

### Options and Accessories

<b>mi Toolholders</b>		mi System Description Toolholders Accessories	83 84-88 89-90
<b>Accessories</b>		Collets DIN 6499 Threading Collets Wrenches Clamping Nuts Sleeves and Bushings	91 91 91 91 93



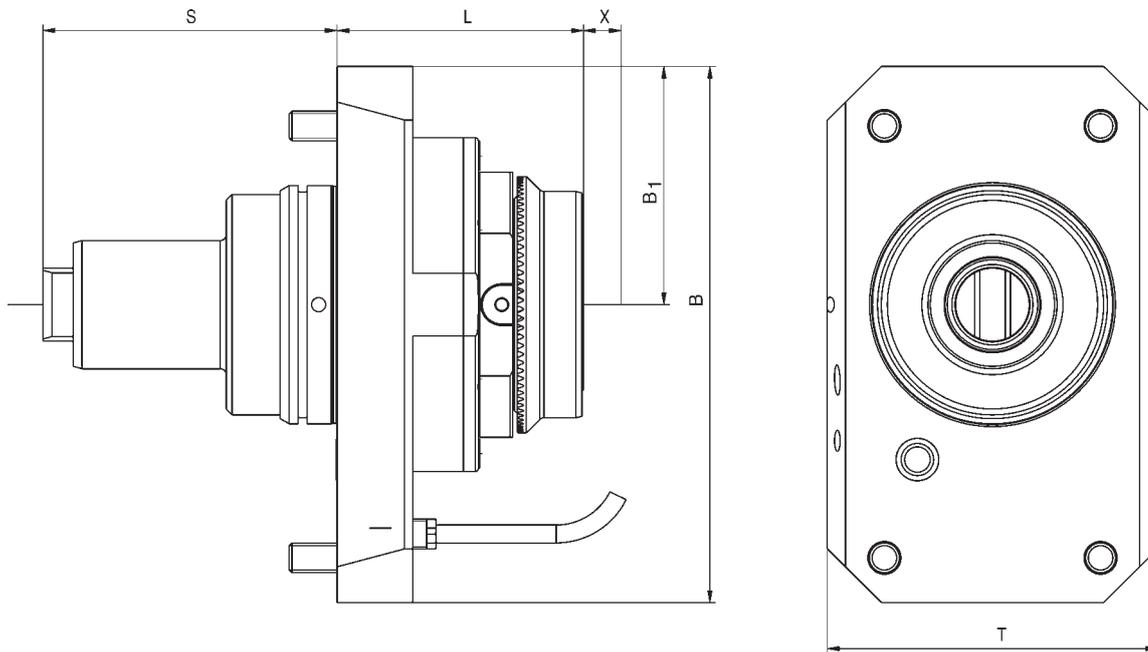
#### Delivery information

Driven toolholders with mi quick-change interface are supplied with operating wrench (see spare parts on page 90).  
Driven toolholders with other interfaces are supplied without clamping wrench (see accessories on page 91).

# Straight Unit

Connectable in accordance with **BLUECOMPETENCE** » mimatic mi » PolyMILL » TriMILL » TrioCut » PolyREAM

for Manufacturer	
<b>Mazak</b>	
for Machine Type	
<b>QUICK TURN SMART 300M/350M</b>	
<b>QTS</b>	
300M	
350M	
Dimensions	
Turret Type	Star-Type Turret
Shank	BMT Ø 80 mm
Drive	Tang
SW	12 mm
Modular Interfaces	
<b>mimaticMi</b>	



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	Rotating direction
175586	ER 40	2,5-30	140 Nm	6.500 / 6.500	i = 1:1	external	89	71	110	55	88	175	↺ ↻
175587	ER 40*	2,5-30	140 Nm	6.500 / 6.500	i = 1:1	internal	89	71	110	55	88	175	↻ ↺
175588	mi 63	-	140 Nm	6.500 / 6.500	i = 1:1	internal	78	82	110	55	88	175	↻ ↺

# Angle Unit

for Manufacturer

**Mazak**

for Machine Type

**QUICK TURN SMART 300M/350M**

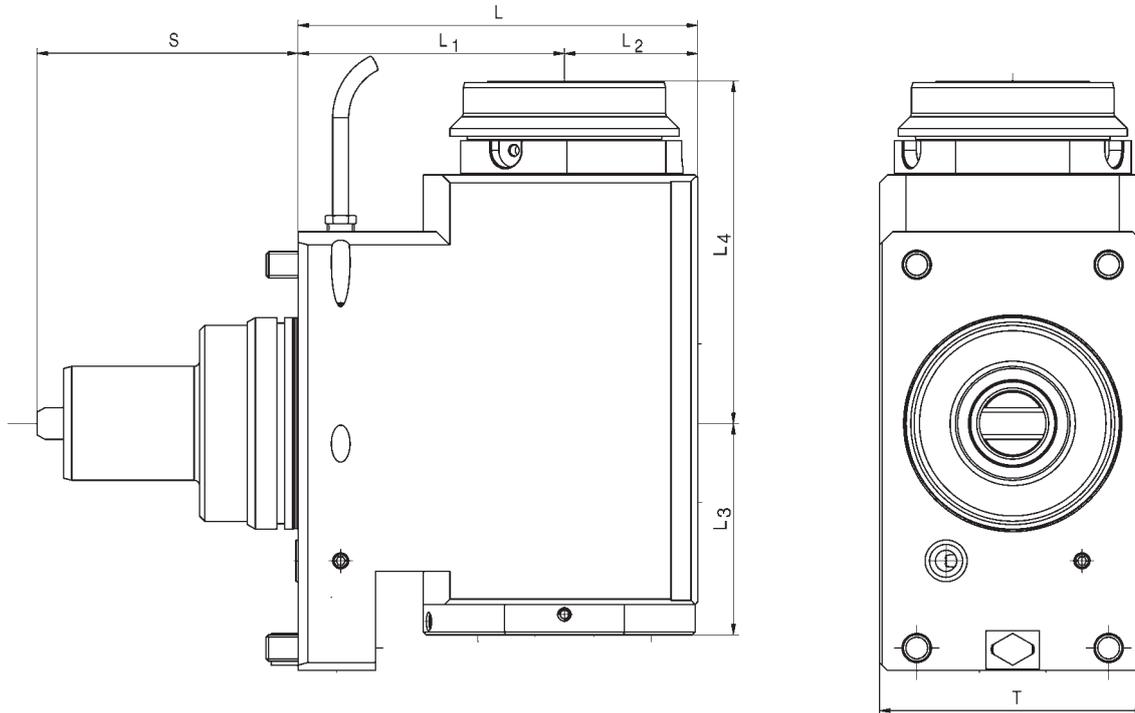
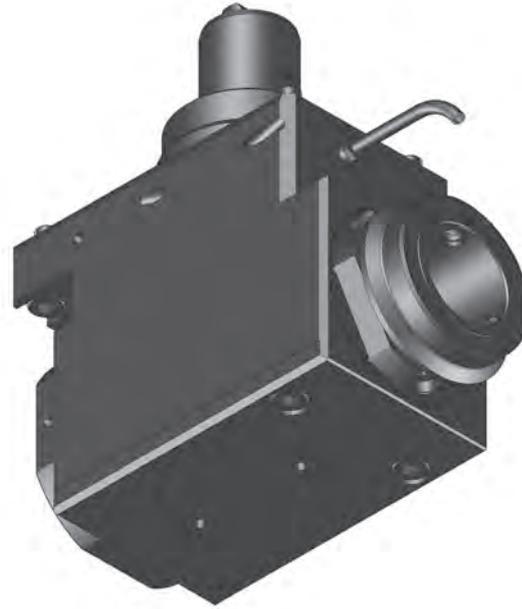
**QTS**  
300M  
350M

Dimensions

Turret Type            Star-Type Turret  
Shank                    BMT Ø 80 mm  
Drive                     Tang  
SW                        12 mm

Modular Interfaces

**mimaticMi**

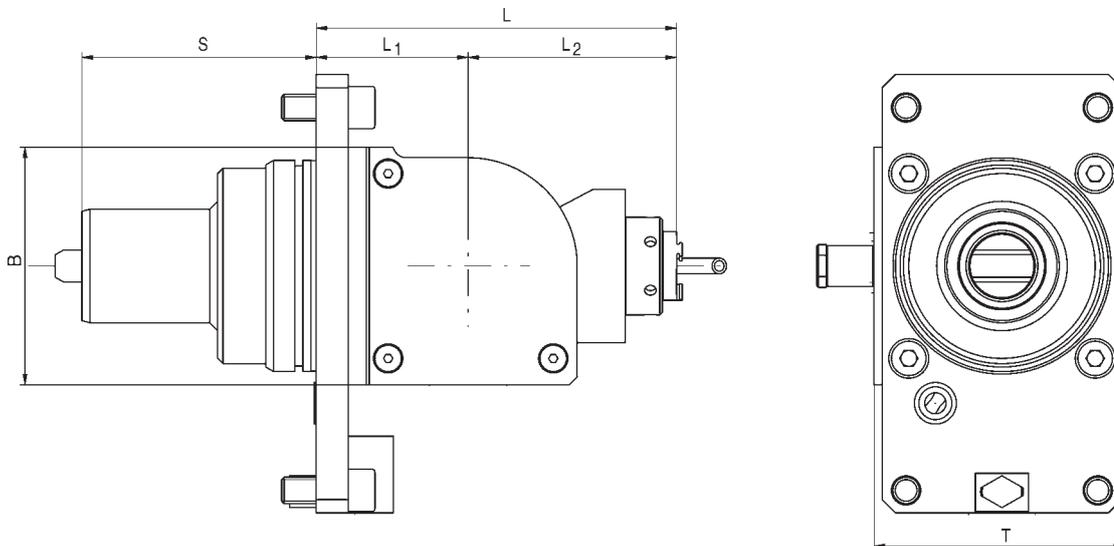
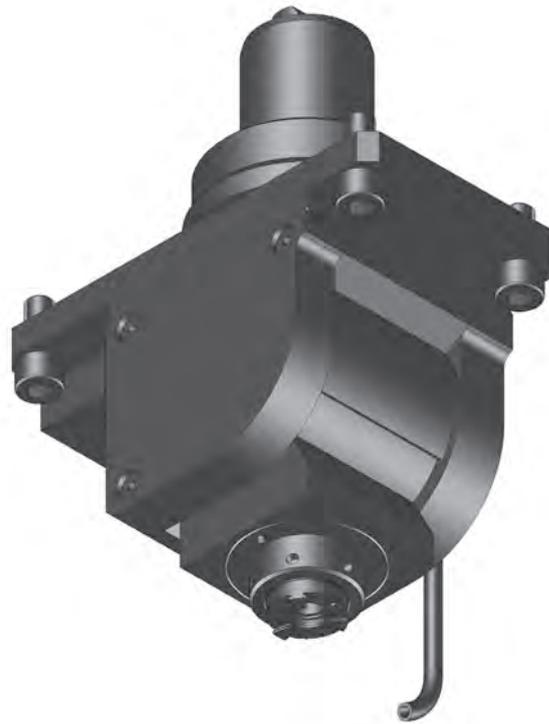


Order No.	Tool Holder	Clamping Range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	L mm	L1 mm	L2 mm	L3 mm	L4 mm	S mm	T mm	Rotating direction
175591	ER 40	2,5-30	100 Nm	6.500 / 6.500	i = 1:1	external	150	100	50	80	108,0	88	100	↺ ↻
175592	ER 40*	2,5-30	100 Nm	6.500 / 6.500	i = 1:1	internal	150	100	50	80	108,0	88	100	↻ ↺
175593	mi 63	-	100 Nm	6.500 / 6.500	i = 1:1	internal	150	100	50	80	129,5	88	100	↺ ↻

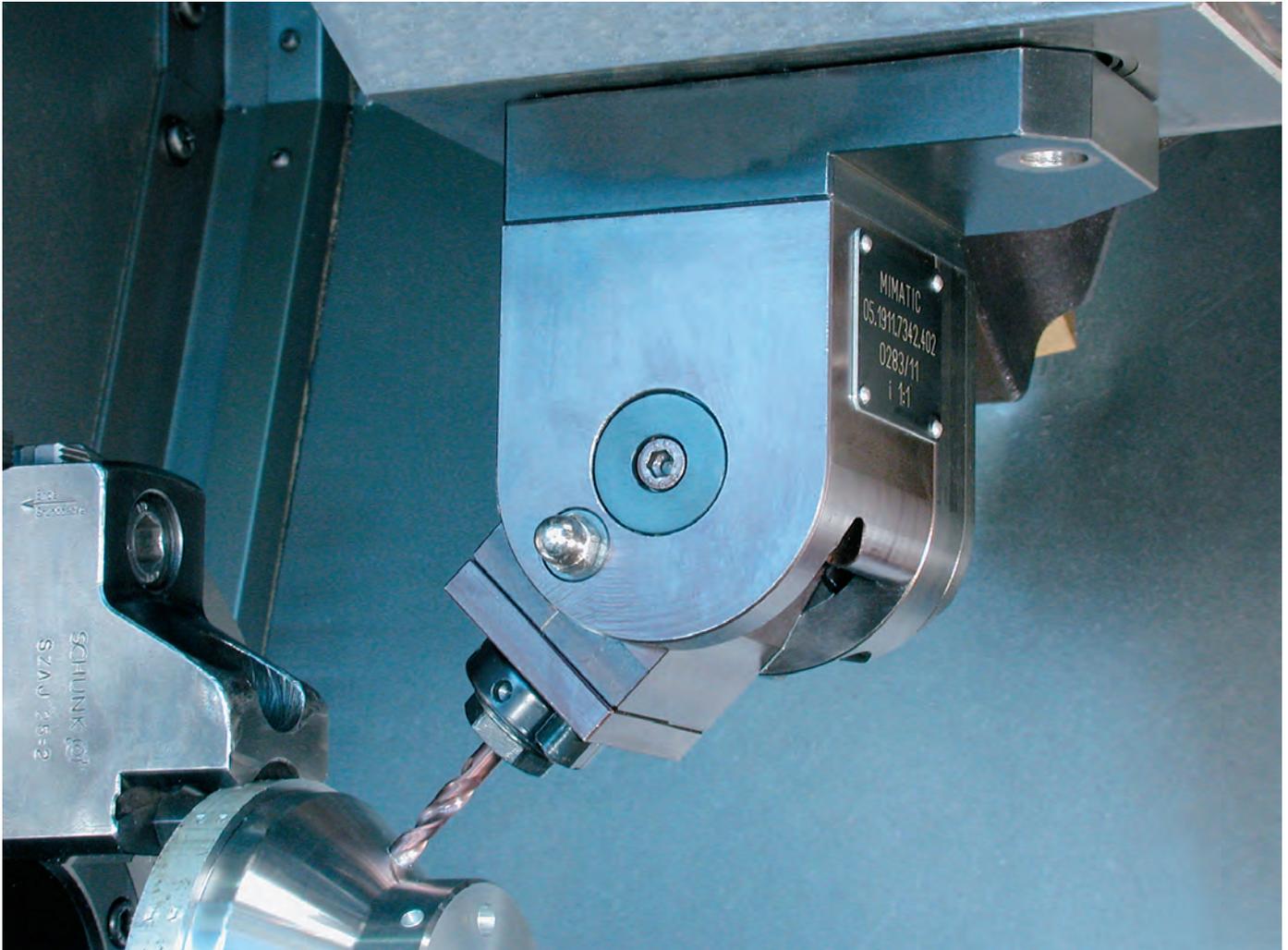
\* With clamping nuts with sealing, seals see page 92

# Angle Unit, Adjustable 0-90°

for Manufacturer	
<b>Mazak</b>	
for Machine Type	
<b>QUICK TURN SMART 300M/350M</b>	
<b>QTS</b>	
300M	
350M	
Dimensions	
Turret Type	Star-Type Turret
Shank	BMT Ø 80 mm
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	B mm	S mm	T mm	Rotating direction
176382	ER 20	1,0-13	20 Nm	6.500 / 6.500	i = 1:1	internal	135	57	78	90	88	94	↺ ↻



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

# Mazak

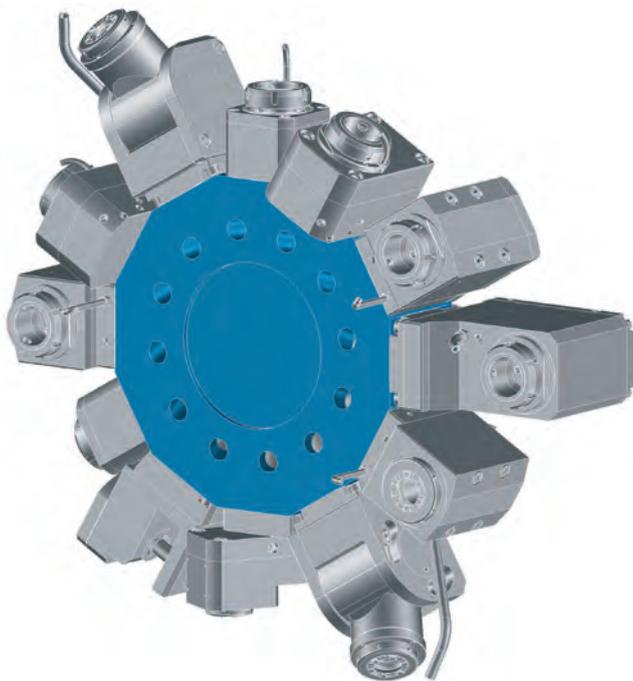
## MULTIPLEX 610/6100/6200 + HYPER QUADREX MSY 150

### Data

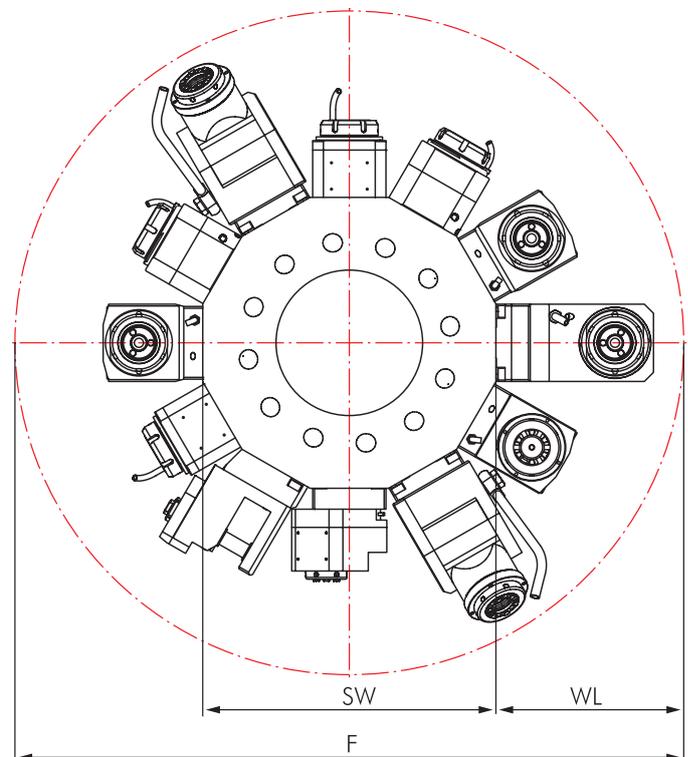
Machine type Series		Turret Stations
<b>MP 610</b>		12
<b>MP 6100/6100</b>	<b>Y</b>	16
<b>MP 6200/6200</b>	<b>Y</b>	16
<b>HQ 150</b>	<b>MSY</b>	12



### Star-type Turret VDI 40



### Interference Circles



Machine type Series	F	SW	WL
<b>Multiplex 610 / 6100</b>	596	286	155
<b>Multiplex 6200</b>	596	286	155
<b>HQ 100 / 150</b>	616	286	165

**MULTIPLEX 610/6100/6200 + HYPER QUADREX MSY 150**

**Driven Toolholders**

	Page		Page
<b>Straight Unit, Offset Type</b>	44-45		
		<b>Angle Unit, adjustable 0-100°</b>	48
			
<b>Angle Unit</b>	46-47		
		<b>Y-Unit, adjustable ± 90°</b>	49
			
		<b>Saw Blade Holder</b>	50
			

**Options and Accessories**

<b>mi Toolholders</b>		mi System Description Toolholders Accessories	83 84-88 89-90
<b>Static Toolholders for MAZAK</b>		Static Toolholders Accessories	71-79 80-81
<b>Accessories</b>		Collets DIN 6499 Threading Collets Wrenches Clamping Nuts Sleeves and Bushings	91 91 91 91 93



**Delivery information**

Driven toolholders with mi quick-change interface are supplied with operating wrench (see spare parts on page 90).  
Driven toolholders with other interfaces are supplied without clamping wrench (see accessories on page 91).

# Straight Unit, Offset Type

Connectable in accordance with **BLUECOMPETENCE** » mimatic mi » PolyMILL » TriMILL » TrioCut » PolyREAM

for Manufacturer

**Mazak**

for Machine type

**MULTIPLEX 610/6100/6200**  
**HYPER QUADREX MSY 150**

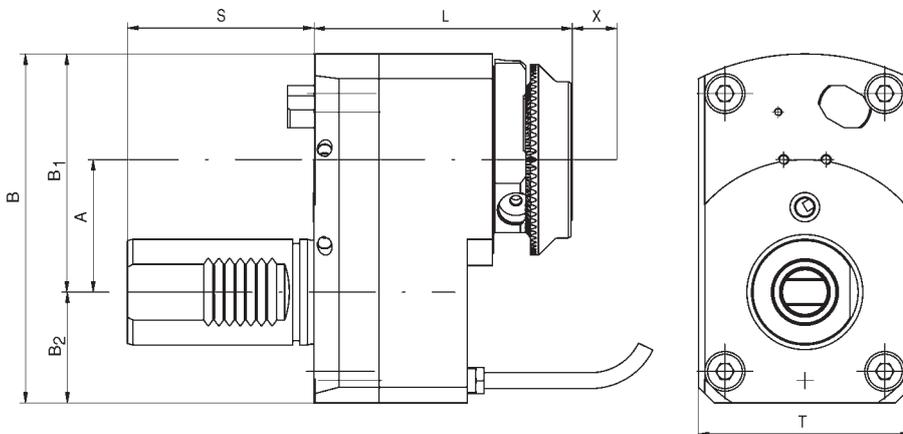
<b>MP</b>	<b>HQ MSY</b>
610 - 12x	150 - 12x
6100 - 16x	
6200 - 16x	

Dimensions

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

Modular Interfaces

**mimaticMi**  
**mimaticCAPTO**

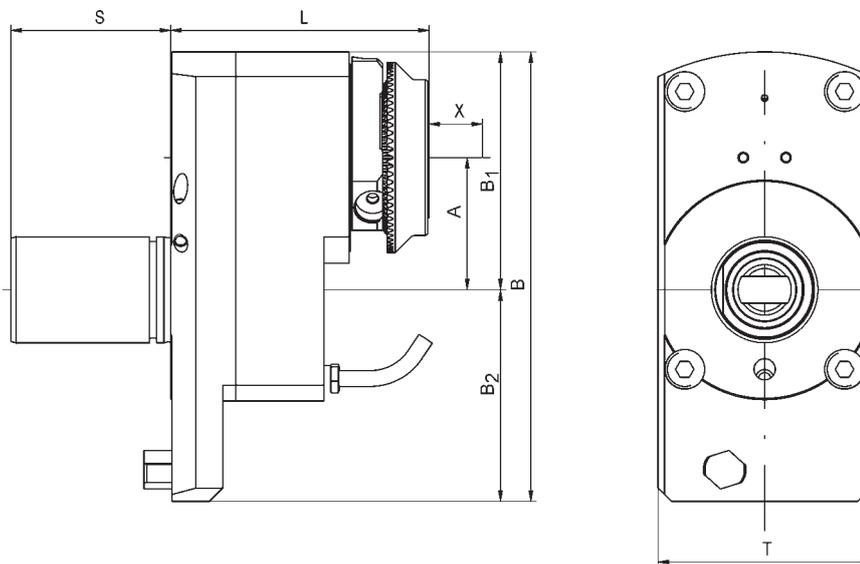


Order No.	Tool holder	Clamping range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	X mm	L mm	A mm	B mm	B1 mm	B2 mm	S mm	T mm	Rotating direction
124018	ER 32	1,0-20	50 Nm	6.500 / 6.500	i = 1:1	external	65,0	90,0	50	132	90	42	60	80	↺ ↻
124252	ER 32*	1,0-20	50 Nm	6.500 / 6.500	i = 1:1	internal	65,0	90,0	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	65,0	90,0	50	132	90	42	60	80	↺ ↻
123681	ER 25*	0,5-16	50 Nm	6.500 / 6.500	i = 1:1	internal	65,0	90,0	50	132	90	42	60	80	↺ ↻
124013	mi 50	-	50 Nm	6.500 / 6.500	i = 1:1	external	65,0	97,0	50	132	90	42	60	80	↺ ↻
123683	mi 50	-	50 Nm	6.500 / 6.500	i = 1:1	internal	-	97,0	50	132	90	42	60	80	↺ ↻
123680	HF 20	6,0-20	50 Nm	6.500 / 6.500	i = 1:1	internal	-	89,0	50	132	90	42	60	80	↺ ↻
173557	C 4	-	50 Nm	6.500 / 6.500	i = 1:1	internal	(61,5)	93,5	50	132	90	42	70	84	↺ ↻
Without offset (HQ 150)															
173577	C 4	-	80 Nm	6.500 / 6.500	i = 1:1	external	-	80,0	-	90	-	-	70	84	↺ ↻

# Straight Unit, Offset Type for Sub-Spindle

Connectable in accordance with **BLUECOMPETENCE** » mimatic mi » PolyMILL » TriMILL » TrioCut » PolyREAM

for Manufacturer	
<b>Mazak</b>	
for Machine type	
<b>HYPER QUADREX MSY 150</b>	
<b>HQ MSY</b> 150 - 12x	
Dimensions	
Turret type	Star-type Turret
Shank	VDI 40
Drive	Tang
SW	10 mm
Modular Interfaces	
<b>mimaticMi</b>	



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	Rotating direction
174697	ER 32	1,0-20	50 Nm	6.500 / 6.500	i = 1:1	external	75	90	-50	180	90	90	60	80	↺ ↻
174698	ER 32*	1,0-20	50 Nm	6.500 / 6.500	i = 1:1	internal	75	90	-50	180	90	90	60	80	↻ ↺
174699	mi 50	-	50 Nm	6.500 / 6.500	i = 1:1	internal	68	97	-50	180	90	90	60	80	↻ ↺

\* With clamping nuts with sealing, seals see page 92

# 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**

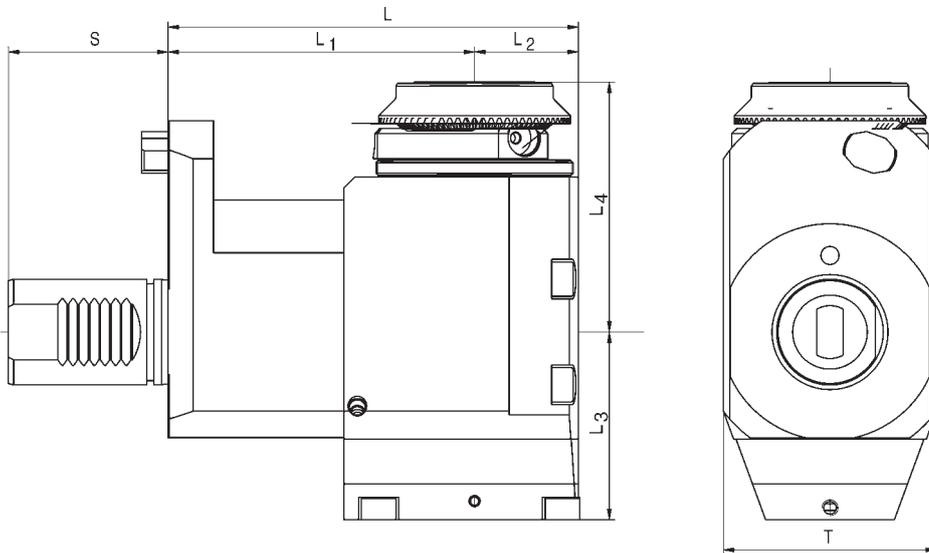
150 - 12x

Dimensions

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

Modular Interfaces

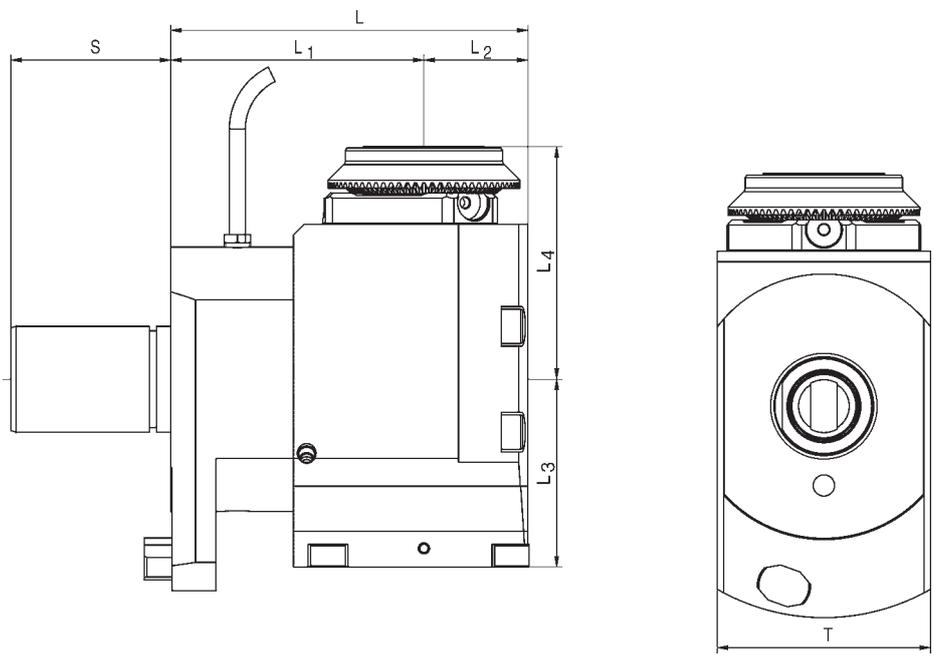
**mimaticMi**  
**mimaticCAPTO**



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	Rotating direction
124610	ER 32	1,0-20	50 Nm	6.500 / 6.500	i = 1:1	external	154	115	39	69,0	70	60	85	↺ ↻
124854	ER 32*	1,0-20	50 Nm	6.500 / 6.500	i = 1:1	internal	154	115	39	71,0	70	60	85	↺ ↻
124856	mi 50	-	50 Nm	6.500 / 6.500	i = 1:1	internal	155	115	39	71,0	88	60	80	↺ ↻
124689	ER 25	0,5-16	25 Nm	6.500 / 13.000	i = 1:2	external	149	115	34	40,0	78	60	80	↺ ↻
124850	HF 20	6,0-20	50 Nm	6.500 / 6.500	i = 1:1	internal	149	115	39	71,0	81	60	80	↺ ↻
170167	mi 40	-	25 Nm	6.500 / 13.000	i = 1:2	external	149	115	34	40,0	97	60	80	↺ ↻
124915	mi 40	-	25 Nm	6.500 / 13.000	i = 1:2	internal	154	115	39	72,5	97	60	80	↺ ↻
173583	C 4	-	60 Nm	6.500 / 6.500	i = 1:1	internal	152	110	42	71,0	75	70	85	↺ ↻

# Angle Unit for Sub-Spindle

for Manufacturer	
<b>Mazak</b>	
for Machine type	
<b>HYPER QUADREX MSY 150</b>	
<b>HQ MSY</b> 150 - 12x	
Dimensions	
Turret type	Star-type Turret
Shank	VDI 40
Drive	Tang
SW	10 mm
Modular Interfaces	
<b>mimaticMi</b>	

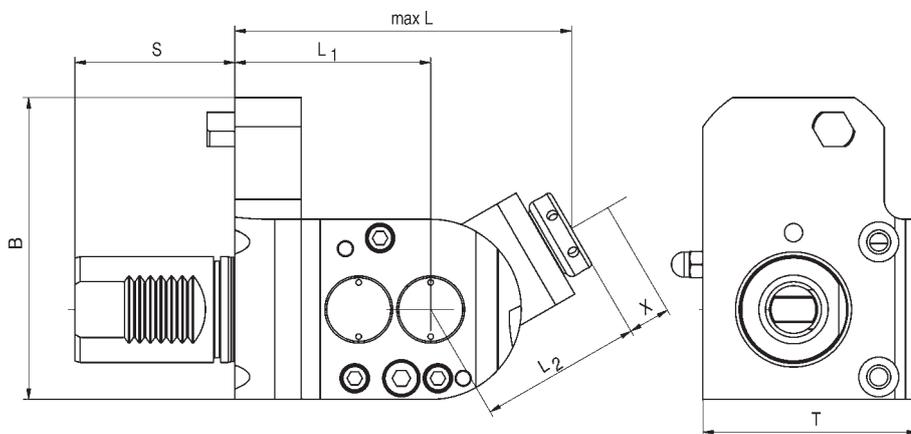
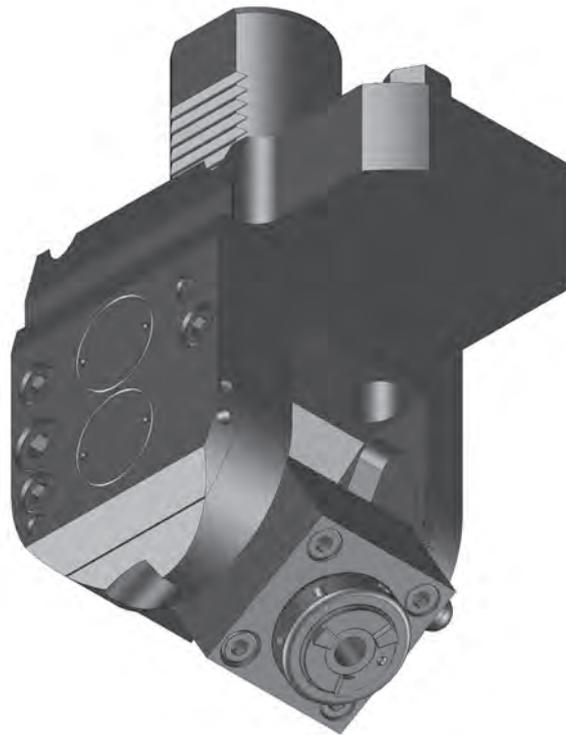


Order No.	Tool holder	Clamping range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	L mm	L1 mm	L2 mm	L3 mm	L4 mm	S mm	T mm	Rotating direction
174700	ER 32	1,0-20	50 Nm	6.500 / 6.500	i = 1:1	external	154	115	39	72	69	60	80	↺ ↻
174701	ER 32*	1,0-20	50 Nm	6.500 / 6.500	i = 1:1	internal	154	115	39	72	69	60	80	↻ ↺
174702	mi 50	-	50 Nm	6.500 / 6.500	i = 1:1	internal	154	115	39	87	69	60	80	↻ ↺

\* With clamping nuts with sealing, seals see page 92

# Angle Unit, Adjustable 0-100°

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

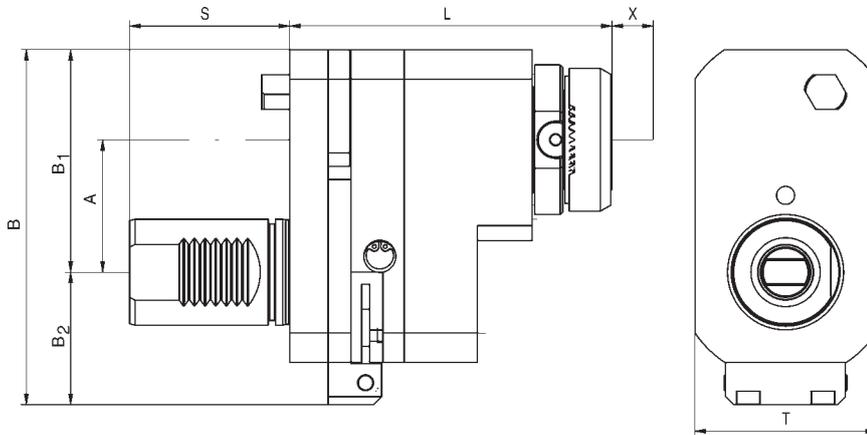
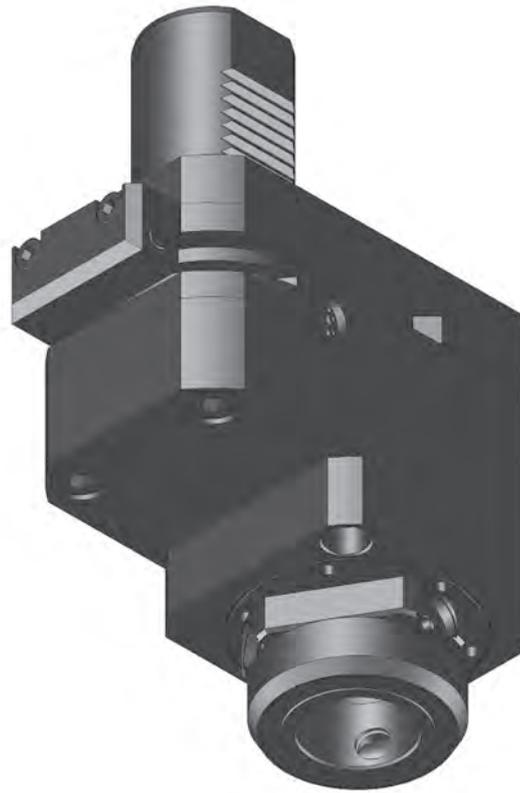


Order No.	Tool holder	Clamping range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	X mm	L mm	L1 mm	L2 mm	B mm	S mm	T mm	Rotating direction
125024	ER 16	0,5-10	6 Nm	6.500 / 6.500	i = 1:1	external	20,5	134,5	73,5	61	114	60	80,5	↺ ↻
125051	ER 16	0,5-10	6 Nm	3.750 / 15.000	i = 1:4	external	20,5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

# Y-Unit, Adjustable $\pm 90^\circ$

Connectable in accordance with **BLUECOMPETENCE** » mimatic mi » PolyMILL » TriMILL » TrioCut » PolyREAM

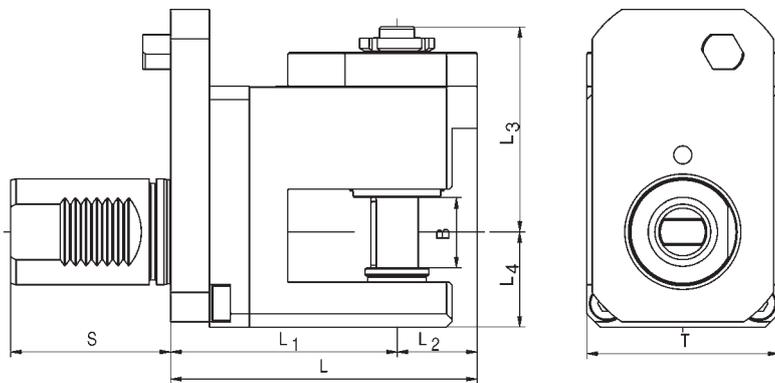
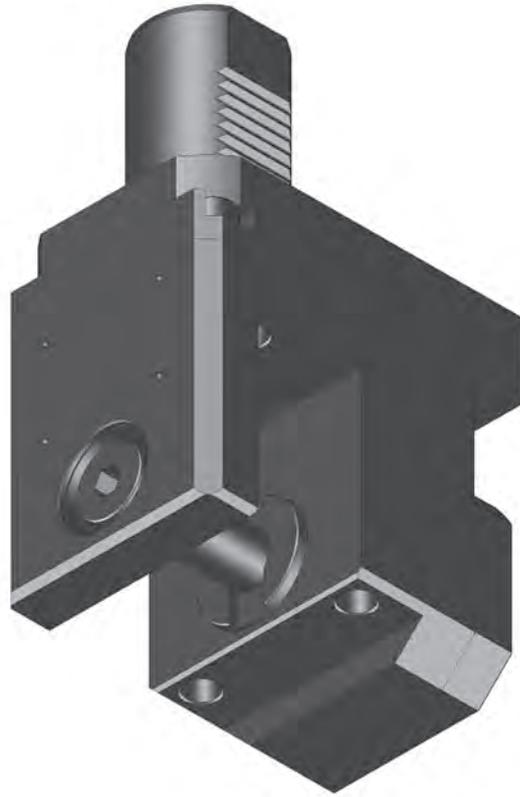
for Manufacturer	
<b>Mazak</b>	
for Machine type	
<b>MULTIPLEX 610/6100/6200 HYPER QUADREX MSY 150</b>	
<b>MP</b> 610 - 12x 6100 - 16x 6200 - 16x	<b>HQ MSY</b> 150 - 12x
Dimensions	
Turret type Type	Star-type Turret $\pm 90^\circ$ continuous adjustable
Shank Drive SW	VDI 40 Tang 10 mm
Modular Interfaces	
<b>mimaticMi</b>	



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	Rotating direction
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	
<b>Mazak</b>	
for Machine type	
<b>MULTIPLEX 610/6100/6200 HYPER QUADREX MSY 150</b>	
<b>MP</b> 610 - 12x 6100 - 16x 6200 - 16x	<b>HQ MSY</b> 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
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<sup>®</sup> 90° angle driven toolholder for Mazak VDI 40 with modular quick change system „mi“. The mimatic<sup>®</sup> mi interface is a very innovative modular quick change system to reduce machine downtimes because all units can be preset outside the machine.

# Mazak

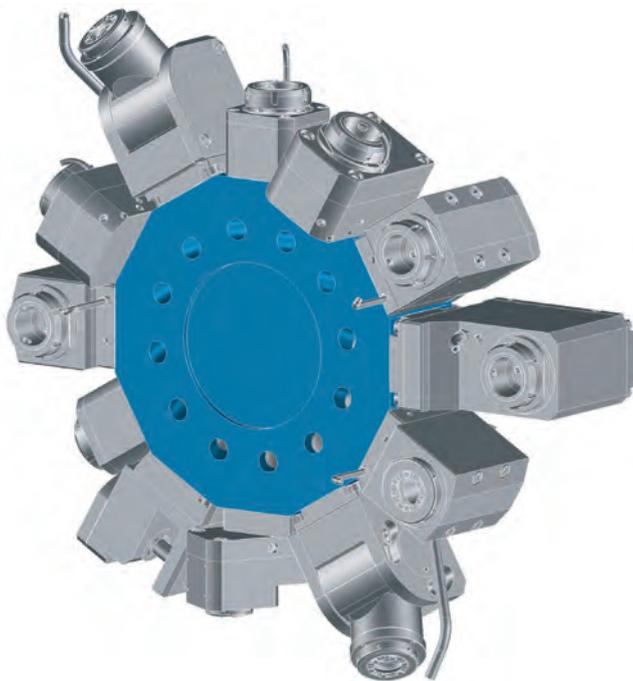
## MULTIPLEX 620/6200 + HYPER QUADREX MSY 200

### Data

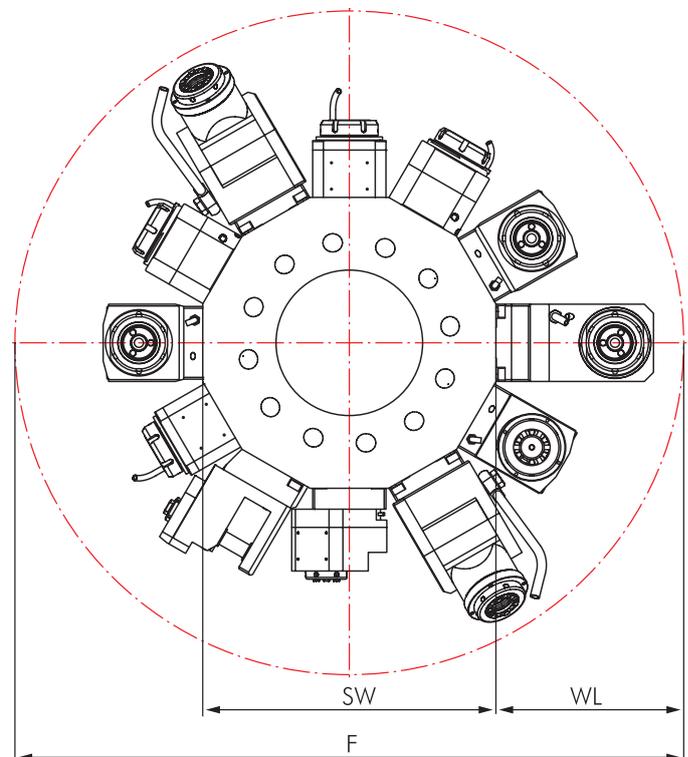
Machine type Series		Turret Stations
<b>MP 620</b>		12
<b>MP 6200/6200</b>	<b>Y</b>	12/16
<b>HQ 200</b>	<b>MSY</b>	12



### Star-type Turret VDI 40



### Interference Circles



Machine type Series	F	SW	WL
<b>Multiplex 620 / 6200</b>	680	320	180
<b>HQ 200 MSY</b>	700	320	190

**MULTIPLEX 620/6200 + HYPER QUADREX MSY 200**

**Driven Toolholders**

	Page		Page
<b>Straight Unit, Offset Type</b>	54-55		
		<b>Angle Unit, adjustable 0-100°</b>	59
			
<b>Angle Unit</b>	56-57		
		<b>Y-Unit, adjustable ± 90°</b>	60
			
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**Options and Accessories**

<b>mi Toolholders</b>		mi System Description Toolholders Accessories	83 84-88 89-90
<b>Static Toolholders for MAZAK</b>		Static Toolholders Accessories	71-79 80-81
<b>Accessories</b>		Collets DIN 6499 Threading Collets Wrenches Clamping Nuts Sleeves and Bushings	91 91 91 91 93



**Delivery information**

Driven toolholders with mi quick-change interface are supplied with operating wrench (see spare parts on page 90).  
Driven toolholders with other interfaces are supplied without clamping wrench (see accessories on page 91).

# Straight Unit, Offset Type

Connectable in accordance with **BLUECOMPETENCE** » mimatic mi » PolyMILL » TriMILL » TrioCut » PolyREAM

for Manufacturer

**Mazak**

for Machine type

**MULTIPLEX 620/6200**  
**HYPER QUADREX MSY 200**

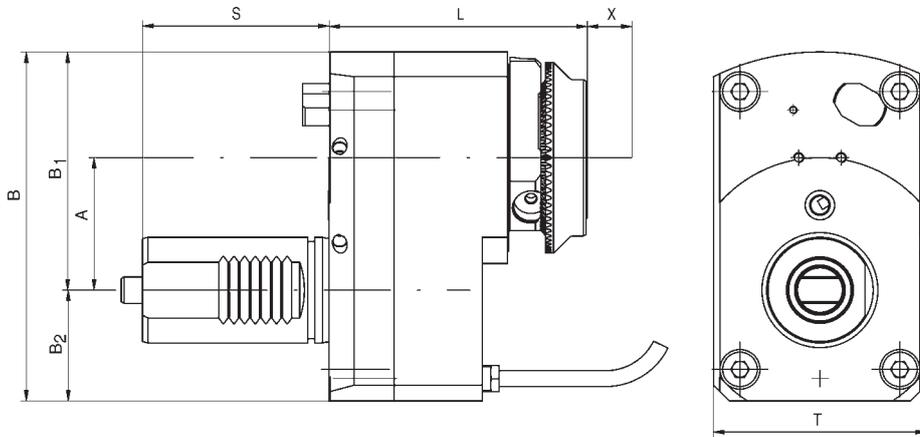
<b>MP</b>	<b>HQ</b>
620 - 12x	200 - 12x
6200 - 12x	

Dimensions

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

Modular Interfaces

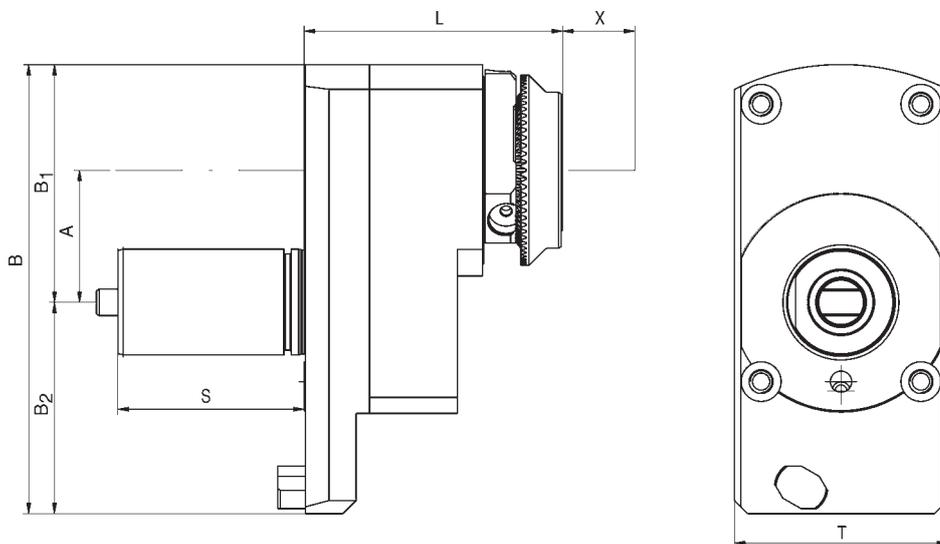
**mimaticMi**  
**mimaticCAPTO**



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	Rotating direction
124021	ER 32	1,0-20	50 Nm	6.500 / 6.500	i = 1:1	external	90,0	90,0	50	132	90	42	70	80	↺ ↻
124255	ER 32*	1,0-20	50 Nm	6.500 / 6.500	i = 1:1	internal	90,0	90,0	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	90,0	90,0	50	132	90	42	70	80	↻ ↺
175753	mi 40	-	25 Nm	6.500 / 13.000	i = 1:2	internal	69,0	111,0	50	132	90	42	70	80	↺ ↻
124014	mi 50	-	50 Nm	6.500 / 6.500	i = 1:1	external	83,0	97,0	50	132	90	42	70	80	↺ ↻
123684	mi 50	-	50 Nm	6.500 / 6.500	i = 1:1	internal	83,0	97,0	50	132	90	42	70	80	↻ ↺
173556	C 4	-	50 Nm	6.500 / 6.500	i = 1:1	internal	86,5	93,5	50	132	90	42	70	84	↺ ↻
<b>Without offset (HQ 200)</b>															
169824	C 4	-	80 Nm	6.500 / 6.500	i = 1:1	external	-	80,0	-	90	-	-	70	84	↺ ↻

# Straight Unit, Offset Type for Sub-Spindle

for Manufacturer	
<b>Mazak</b>	
for Machine type	
<b>HYPER QUADREX MSY 200</b>	
<b>HQ</b> 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	Rotating direction
174703	ER 32	1,0-20	50 Nm	6.500 / 6.500	i = 1:1	external	100	90	-50	180	90	90	70	80	↺ ↻
174704	ER 32*	1,0-20	50 Nm	6.500 / 6.500	i = 1:1	internal	100	90	-50	180	90	90	70	80	↻ ↺
174705	mi 50	-	50 Nm	6.500 / 6.500	i = 1:1	external	93	97	-50	180	90	90	70	80	↺ ↻

\* With clamping nuts with sealing, seals see page 92

# Angle Unit

for Manufacturer

**Mazak**

for Machine type

**MULTIPLEX 620/6200**  
**HYPER QUADREX MSY 200**

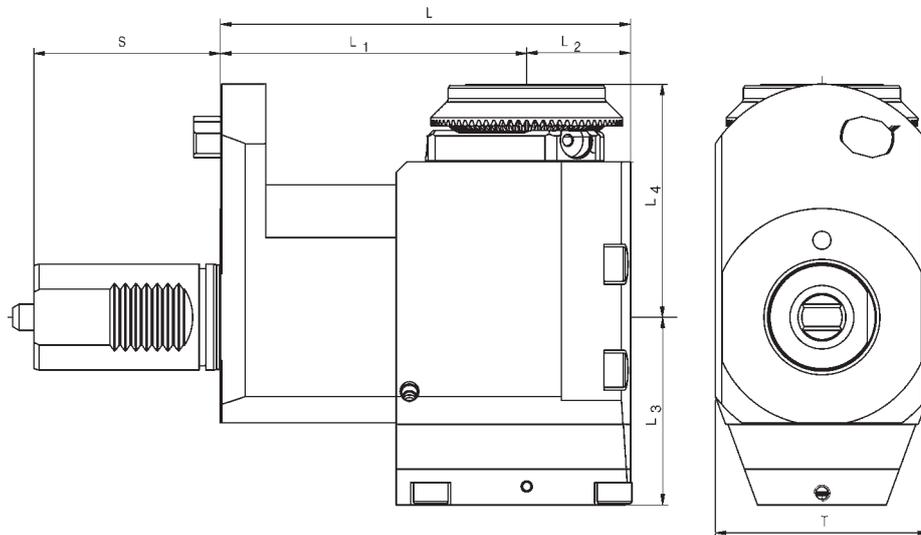
<b>MP</b>	<b>HQ</b>
620 - 12x	200 - 12x
6200 - 12x	

Dimensions

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

Modular Interfaces

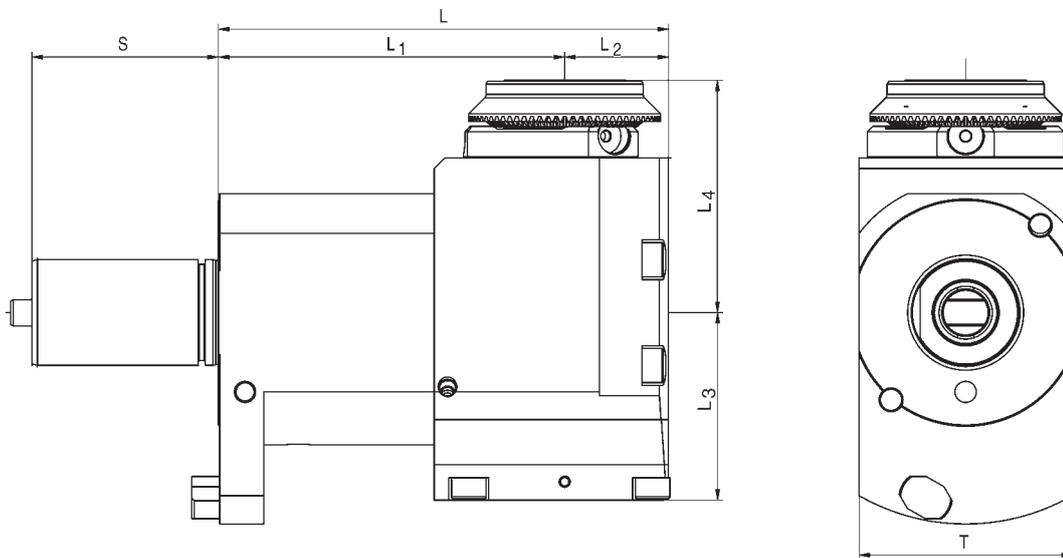
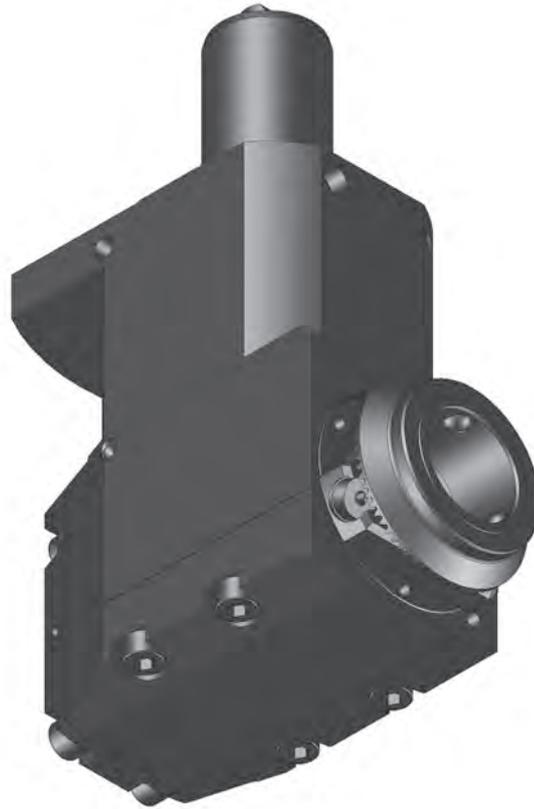
**mimaticMi**  
**mimaticCAPTO**



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	Rotating direction
124619	ER 32	1,0-20	50 Nm	6.500 / 6.500	i = 1:1	external	169	130	39	69,0	70,0	70	85	↺ ↻
124864	ER 32*	1,0-20	50 Nm	6.500 / 6.500	i = 1:1	internal	173	130	43	71,0	70,0	70	80	↺ ↻
124690	ER 25	0,5-16	25 Nm	6.500 / 13.000	i = 1:2	external	164	130	34	40,0	78,0	70	80	↺ ↻
175761	mi 40	-	25 Nm	6.500 / 13.000	i = 1:2	internal	169	130	39	72,5	95,5	70	80	↺ ↻
124623	mi 50	-	50 Nm	6.500 / 6.500	i = 1:1	external	173	130	43	71,0	88,0	70	80	↺ ↻
124866	mi 50	-	50 Nm	6.500 / 6.500	i = 1:1	internal	173	130	43	71,0	88,0	70	80	↺ ↻
169446	HF 20	-	50 Nm	6.500 / 6.500	i = 1:1	internal	169	130	39	71,0	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	91,0	70	80	↺ ↻
169825	C 4	-	60 Nm	6.500 / 6.500	i = 1:1	internal	168	126	42	71,0	75,0	70	85	↺ ↻

# Angle Unit for Sub-Spindle

for Manufacturer	
<b>Mazak</b>	
for Machine type	
<b>HYPER QUADREX MSY 200</b>	
<b>HQ</b> 200 - 12x	
Dimensions	
Turret type	Star-type Turret
Shank	VDI 40
Drive	Tang
SW	10 mm

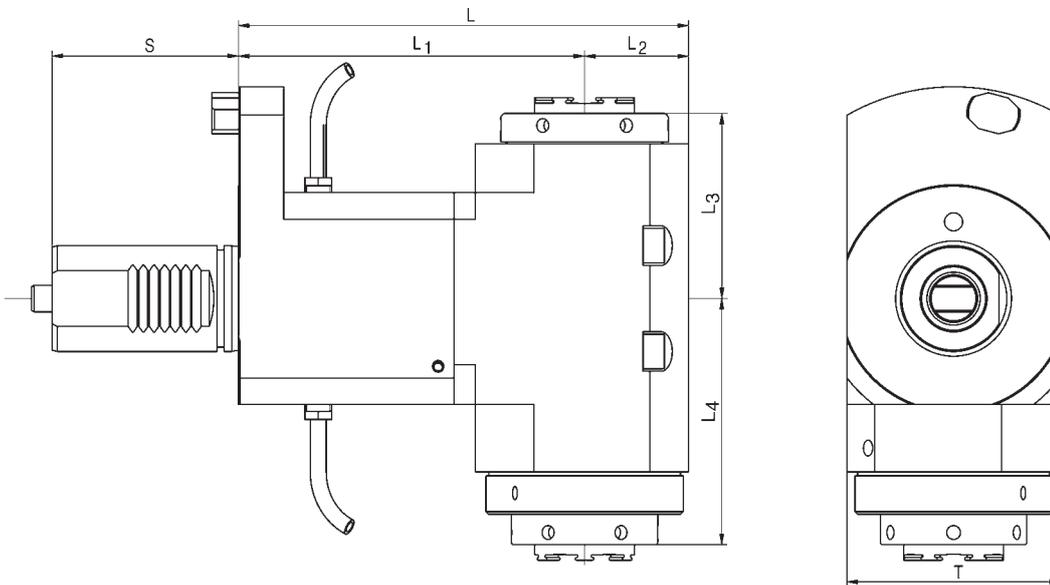
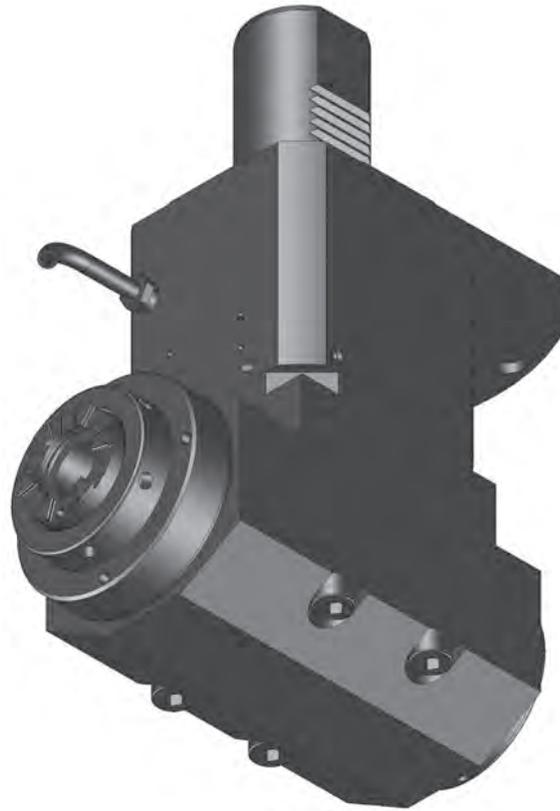


Order No.	Tool holder	Clamping range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	L mm	L1 mm	L2 mm	L3 mm	L4 mm	S mm	T mm	Rotating direction
174706	ER 32	1,0-20	50 Nm	6.500 / 6.500	i = 1:1	external	169	130	39	69	72	70	80	↺ ↻
174707	ER 32*	1,0-20	50 Nm	6.500 / 6.500	i = 1:1	internal	169	130	39	69	72	70	80	↻ ↺
174708	mi 50	-	50 Nm	6.500 / 6.500	i = 1:1	internal	169	130	39	69	87	70	80	↻ ↺

\* With clamping nuts with sealing, seals see page 92

# Angle Unit, 2-Axis

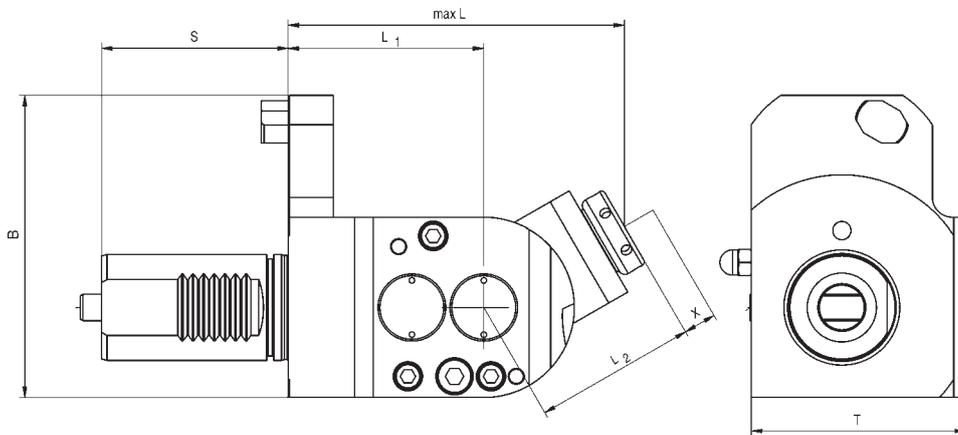
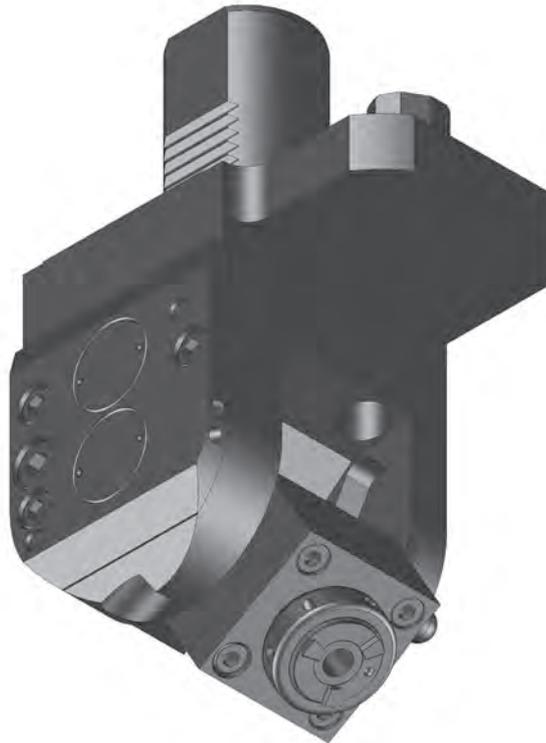
for Manufacturer	
<b>Mazak</b>	
for Machine type	
<b>HYPER QUADREX MSY 200</b>	
<b>HQ</b> 200 - 12x	
Dimensions	
Turret type	Star-type Turret
Shank	VDI 40
Drive	Tang
SW	10 mm



Order No.	Tool holder	Clamping range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	L mm	L1 mm	L2 mm	L3 mm	L4 mm	S mm	T mm
164335	2x ER 32	1,0-20	50 Nm	6.500 / 6.500	i = 1:1	external	169	130	39	70	70	70	80
171083	2x ER 32*	1,0-20	50 Nm	6.500 / 6.500	i = 1:1	internal	169	130	39	70	93	70	80

# Angle Unit, Adjustable 0-100°

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

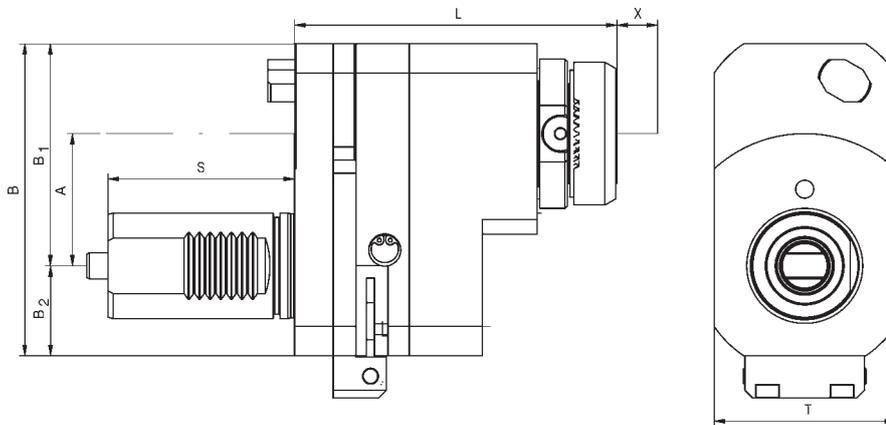
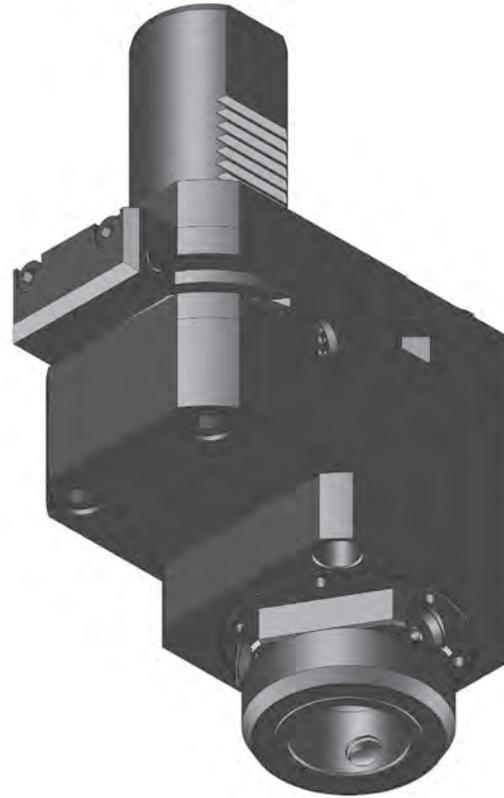


Order No.	Tool holder	Clamping range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	X mm	L mm	L1 mm	L2 mm	B mm	S mm	T mm	Rotating direction
125025	ER 16	0,5-10	6 Nm	6.500 / 6.500	i = 1:1	external	45,5	134,5	73,5	61	114	70	80,5	↻ ↻
125053	ER 16	0,5-10	6 Nm	3.750 / 15.000	i = 1:4	external	45,5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

# Y-Unit, Adjustable $\pm 90^\circ$

Connectable in accordance with **BLUECOMPETENCE** » mimatic mi » PolyMILL » TriMILL » TrioCut » PolyREAM

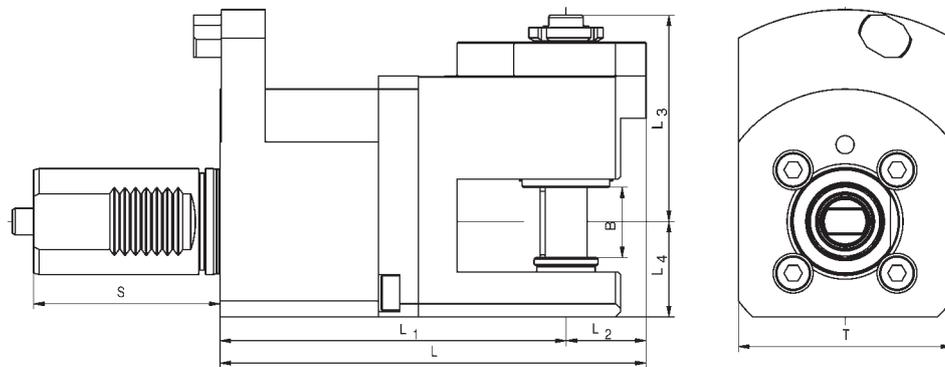
for Manufacturer	
<b>Mazak</b>	
for Machine type	
<b>MULTIPLEX 620/6200 HYPER QUADREX MSY 200</b>	
<b>MP</b> 620 - 12x 6200 - 12x	<b>HQ</b> 200 - 12x
Dimensions	
Turret type Type	Star-type Turret $\pm 90^\circ$ continuous adjustable
Shank Drive SW	VDI 40 Tang 10 mm
Modular Interfaces	
<b>mimaticMi</b>	



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	Rotating direction
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	
<b>Mazak</b>	
for Machine type	
<b>MULTIPLEX 620/6200 HYPER QUADREX MSY 200</b>	
<b>MP</b> 620 - 12x 6200 - 12x	<b>HQ</b> 200 - 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
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

\* Saw blade diameter max. = 80 mm

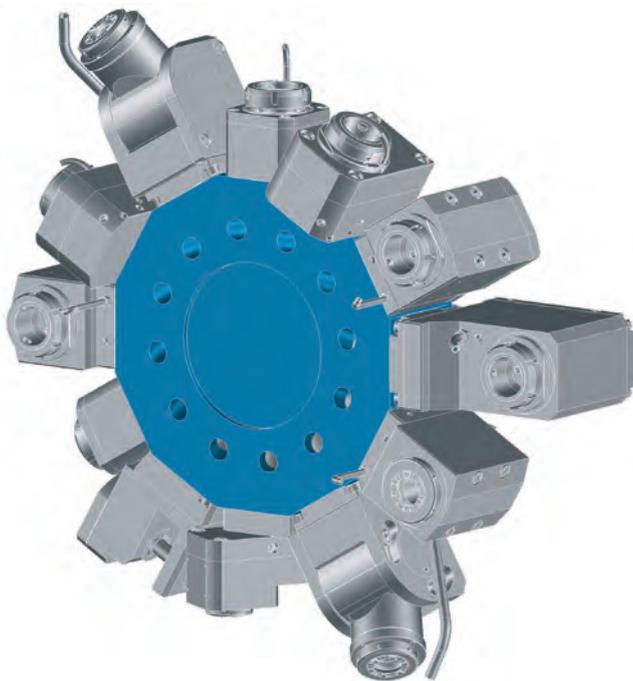
# Mazak MULTIPLEX 630 / 6300

## Data

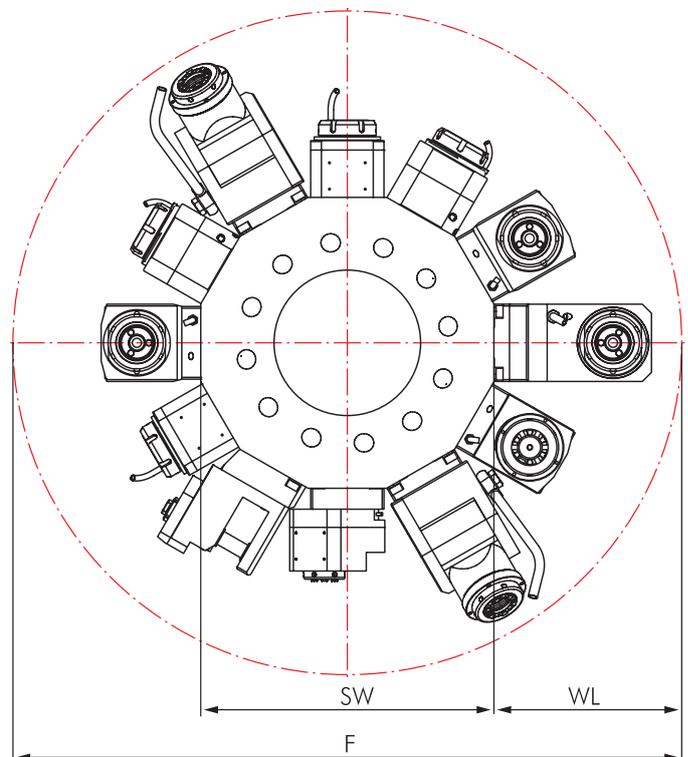
Machine type Series	Turret Stations
<b>MP 630</b>	12
<b>MP 6300/6300 Y</b>	12



## Star-type Turret VDI 50



## Interference Circles



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

## Driven Toolholders

	Page		Page
<b>Straight Unit, Offset Type</b>	64		
		<b>Angle Unit</b>	65
			

## Options and Accessories

<b>mi Toolholders</b>		mi System Description Toolholders Accessories	83 84-88 89-90
<b>Static Toolholders for MAZAK</b>		Static Toolholders Accessories	71-79 80-81
<b>Accessories</b>		Collets DIN 6499 Threading Collets Wrenches Clamping Nuts Sleeves and Bushings	91 91 91 91 93



### Delivery information

Driven toolholders with mi quick-change interface are supplied with operating wrench (see spare parts on page 90).  
Driven toolholders with other interfaces are supplied without clamping wrench (see accessories on page 91).

# Straight Unit, Offset Type

Connectable in accordance with **BLUECOMPETENCE** » mimatic mi » PolyMILL » TriMILL » TrioCut » PolyREAM

for Manufacturer

**Mazak**

for Machine type

**MULTIPLEX 630 / 6300**

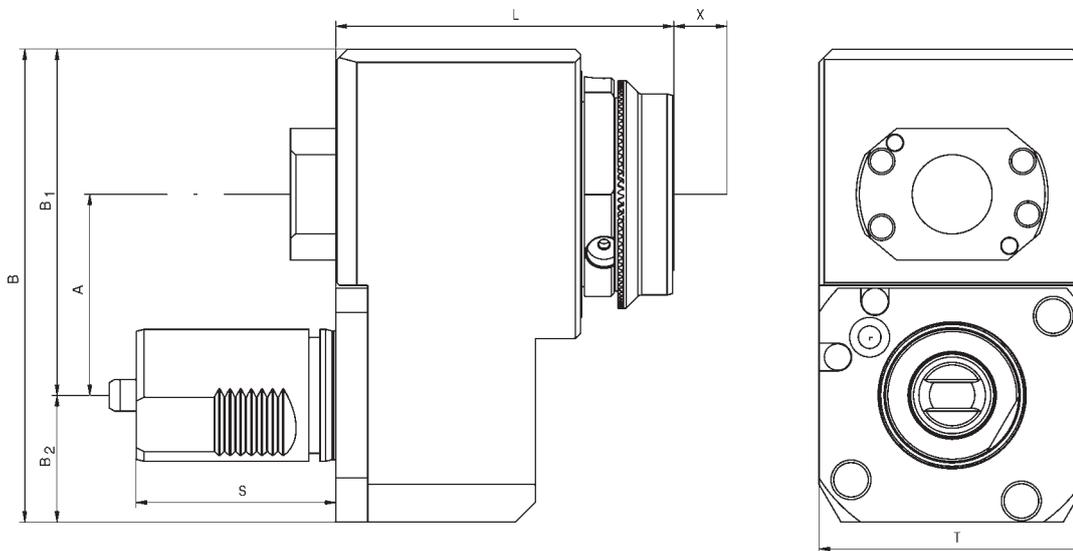
**MP**  
630 - 12x  
6300 - 12x

Dimensions

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

Modular Interfaces

**mimaticMi**  
**mimaticCAPTO**



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	Rotating direction
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/CAT 40	-	100 Nm	6.500 / 6.500	i = 1:1	external	111,5	108,5	76	179	126	59	75	96	↺ ↻
173569	C 5	-	100 Nm	6.500 / 6.500	i = 1:1	internal	120	110	75	189	141	48	75	100	↺ ↻
<b>Without offset</b>															
173579	C5	-	100 Nm	6.500 / 6.500	i = 1:1		120	110	0	100	-	-	75	100	↺ ↻

# Angle Unit

for Manufacturer

**Mazak**

for Machine type

**MULTIPLEX 630 / 6300**

**MP**  
630 - 12x  
6300 - 12x

---

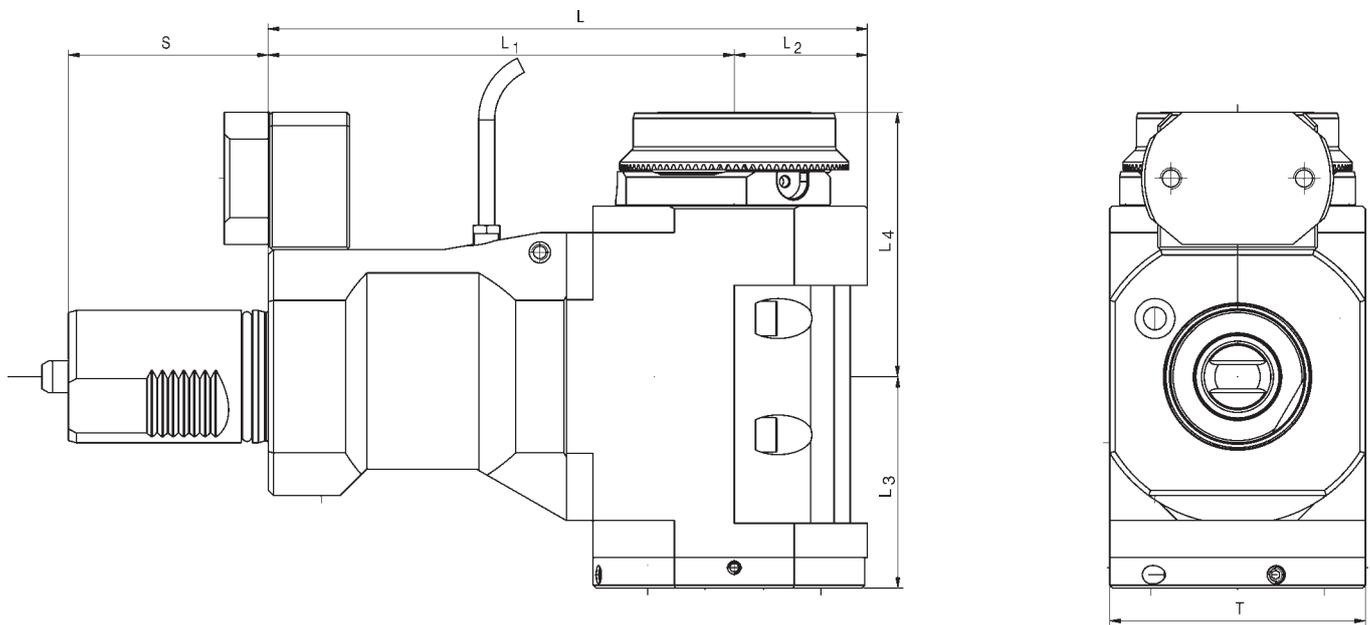
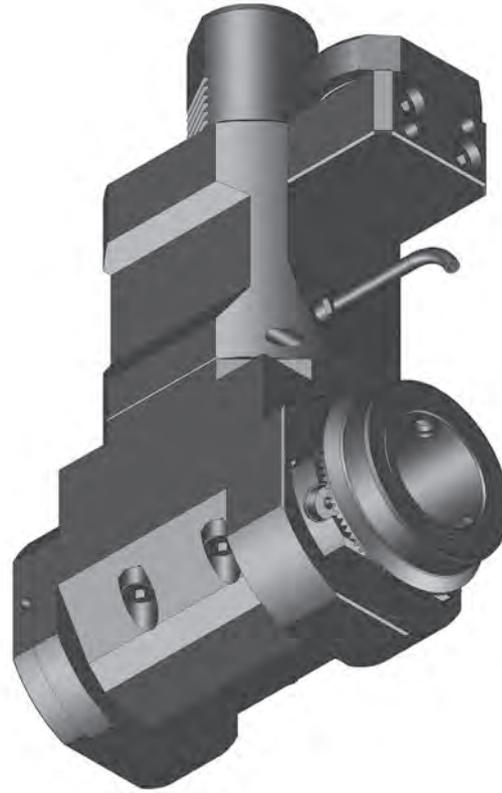
Dimensions

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

---

Modular Interfaces

**mimaticMi**  
**mimaticCAPTO**



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	Rotating direction
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/CAT 40	-	50 Nm	6.500 / 6.500	i = 1:1	external	210	160	50	85,0	81	75	96	↺ ↻
131600	C 5	-	100 Nm	6.500 / 6.500	i = 1:1	internal	230	175	55	85,0	65	75	130	↺ ↻
131607	C 5	-	50 Nm	8.000 / 8.000	i = 1:2	internal	230	175	55	85,0	65	75	130	↺ ↻

\* With clamping nuts with sealing, seals see page 92

# Mazak

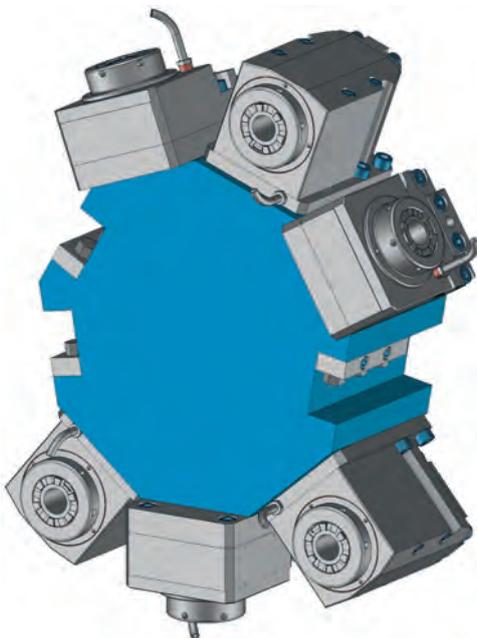
## INTEGREX IV ST + MULTIPLEX 8200

### Data

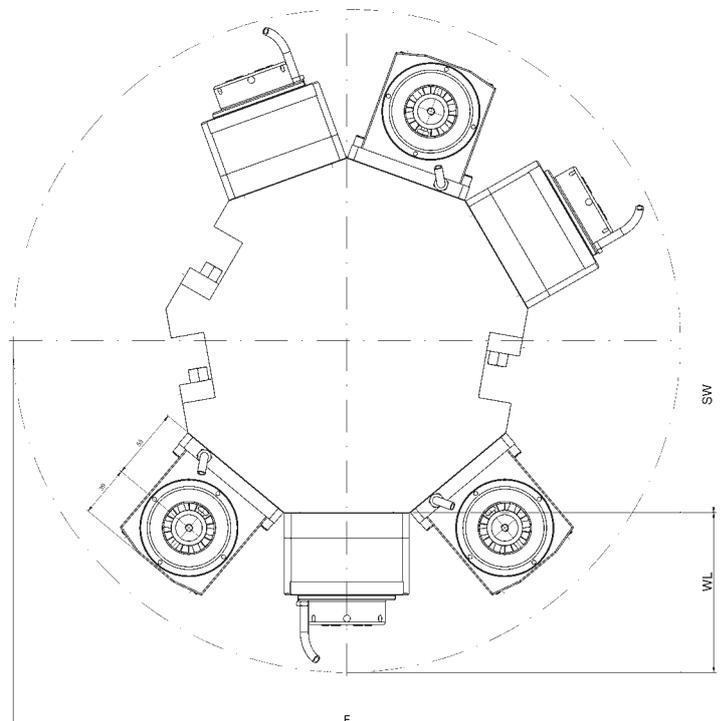
Machine type Series	Turret Stations
<b>Integrex 200/300/400 IV ST</b>	9
<b>Multiplex 8200</b> (only 3th turret)	9



### Star-type Turret



### Interference Circles



Machine type Series	F	SW	WL
<b>Int. 200/300/400 IV ST</b>	840	380	230
<b>Multiplex 8200</b>	502,5	260	120

## Driven Toolholders

	Page		Page
<b>Straight Unit</b>			
	68		
<b>Angle Unit</b>			
			69

## Options and Accessories

<b>Static Toolholders for MAZAK</b>		Static Toolholders Accessories	71-79 80-81
<b>Accessories</b>		Collets DIN 6499 Threading Collets Wrenches Clamping Nuts Sleeves and Bushings	91 91 91 91 93



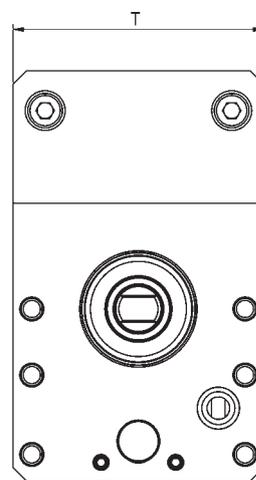
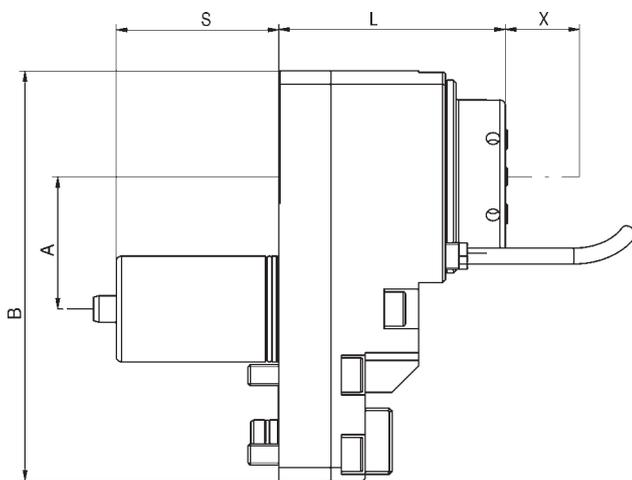
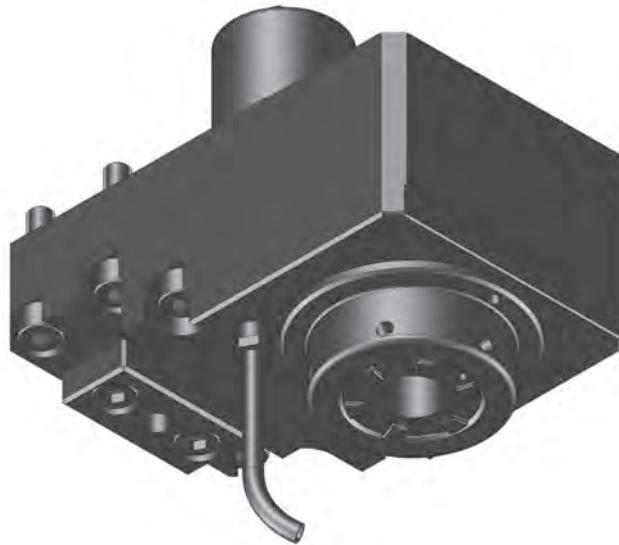
### Delivery information

Driven toolholders with mi quick-change interface are supplied with operating wrench (see spare parts on page 90).  
Driven toolholders with other interfaces are supplied without clamping wrench (see accessories on page 91).

# Straight Unit, Offset Type

Connectable in accordance with **BLUECOMPETENCE** » PolyMILL » TriMILL » TrioCut » PolyREAM

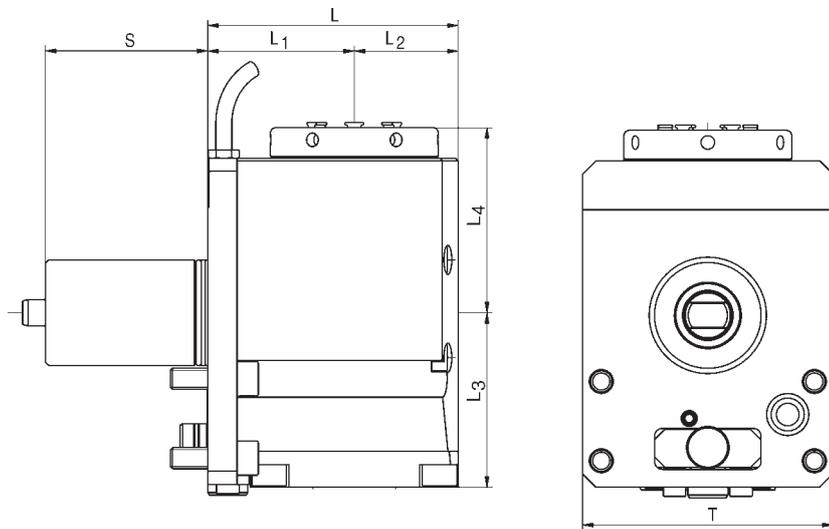
for Manufacturer	
<b>Mazak</b>	
for Machine Type	
<b>INTEGREX 200/300/400 IV ST</b> <b>MULTIPLEX 8200</b> (only 3th turret)	
<b>I</b>	<b>MP</b>
200 IV ST	8200
300 IV ST	
400 IV ST	
Dimensions	
Turret Type	Star-Type Turret
Shank	BMT Ø 40 mm
Drive	Tang
SW	10 mm



Order No.	Tool Holder	Clamping Range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	X mm	L mm	A mm	B mm	S mm	T mm	Rotating direction
100628	ER 32	1,0-20	50 Nm	6.500 / 6.500	i = 1:1	external	36	85	50	155	61	94	↺ ↻

# Angle Unit

for Manufacturer	
<b>Mazak</b>	
for Machine Type	
<b>INTEGREX 200/300/400 IV ST</b> <b>MULTIPLEX 8200</b> (only 3th turret)	
<b>I</b>	<b>MP</b>
200 IV ST	8200
300 IV ST	
400 IV ST	
Dimensions	
Turret Type	Star-Type Turret
Shank	BMT Ø 40 mm
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	Rotating direction
175591	ER 32	1,0-20	50 Nm	6.500 / 6.500	i = 1:1	external	94	55	39	66	70	61	94	↻ ↻

## Table of Contents

**Mazak**



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## Combi Toolholder

for manufacturer

**Mazak**

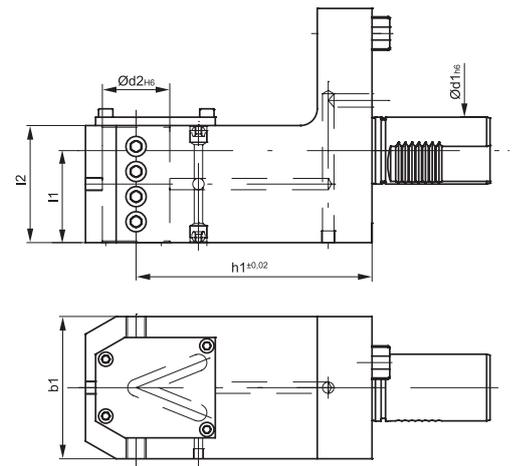
for machine type

**NEXUS QTNX + SQT**

- Reduction Sleeves and Collet inserts see pages 80-81



Internal coolant supply



Order No.	Size	Machine	d1 mm	d2 mm	l1 mm	l2 mm	b1 mm	h1 mm
117971	VDI 40	QTNX 100 + SQT 10	40	25	55	65	76	110
117972	VDI 40	QTNX 100 + SQT 10	40	32	55	65	76	110
117961	VDI 40	QTNX 100 + SQT 10	40	40	55	65	76	110
152680	VDI 40	QTNX 200/250 + SQT 15	40	25	55	70	85	140
152681	VDI 40	QTNX 200/250 + SQT 15	40	32	55	70	85	140
152682	VDI 40	QTNX 200/250 + SQT 15	40	40	55	70	85	140
118018	VDI 50	QTNX 300/350 + SQT 28/30	50	32	63	90	92	175
118008	VDI 50	QTNX 300/350 + SQT 28/30	50	50	63	90	92	175

## Combi Toolholder, Duo Type

for manufacturer

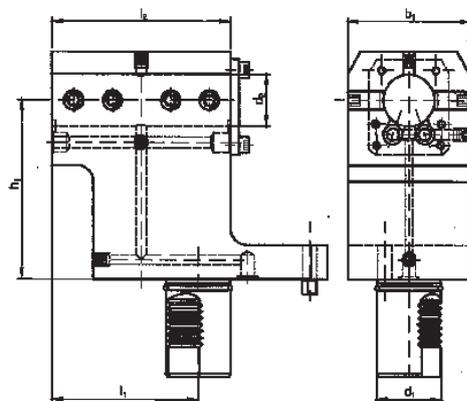
**Mazak**

for machine type

**NEXUS QTNX + SQT**



Internal coolant supply



Order No.	Size	Machine	d1 mm	d2 mm	l1 mm	l2 mm	b1 mm	h1 mm
117976	VDI 40	QTNX 100 + SQT 10	40	32	90	110	76	110
117978	VDI 40	QTNX 200/250 + SQT 15	40	40	90	110	84	140

# Combi Toolholder, Twin Type

for manufacturer

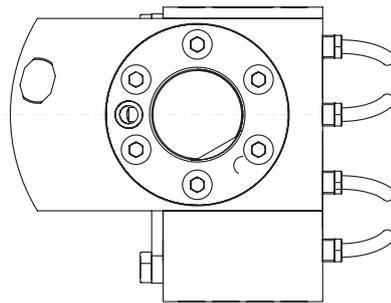
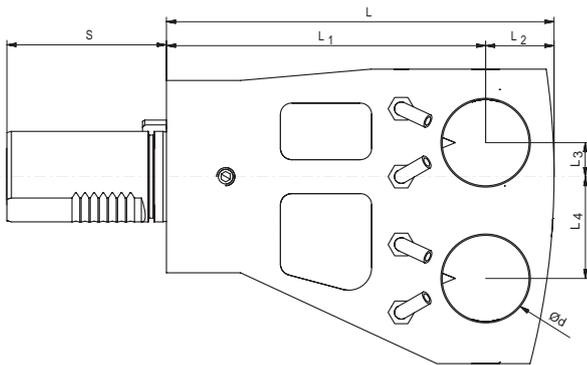
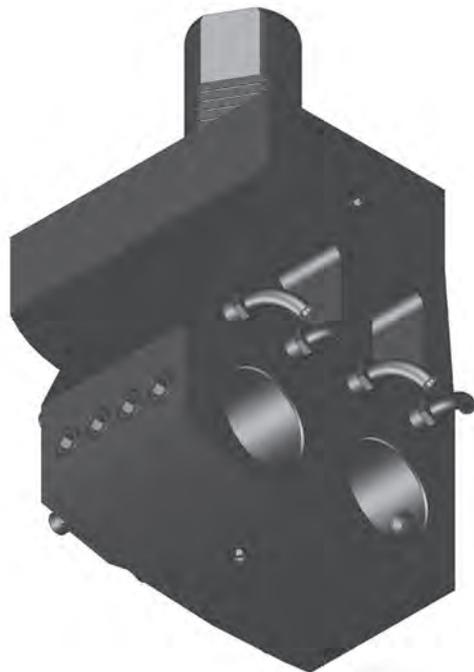
**Mazak**

for machine type

**QUICK TURN NEXUS  
200/250/300/350-II**



Internal coolant supply



Order No.	Size	Machine	d	L mm	L1 mm	L2 mm	L3 mm	L4 mm	S mm
174264	VDI 40	QUICK TURN NEXUS 200/250-II	1½"	170	140	30	15	45	70
162914	VDI 40	QUICK TURN NEXUS 200/250-II	40 mm	170	140	30	15	45	70
162915	VDI 50	QUICK TURN NEXUS 300/350-II	1½"	206	175	31	30	40	75
162916	VDI 50	QUICK TURN NEXUS 300/350-II	40 mm	206	175	31	30	40	75

## Boring Bar Holder

for manufacturer

**Mazak**

for machine type

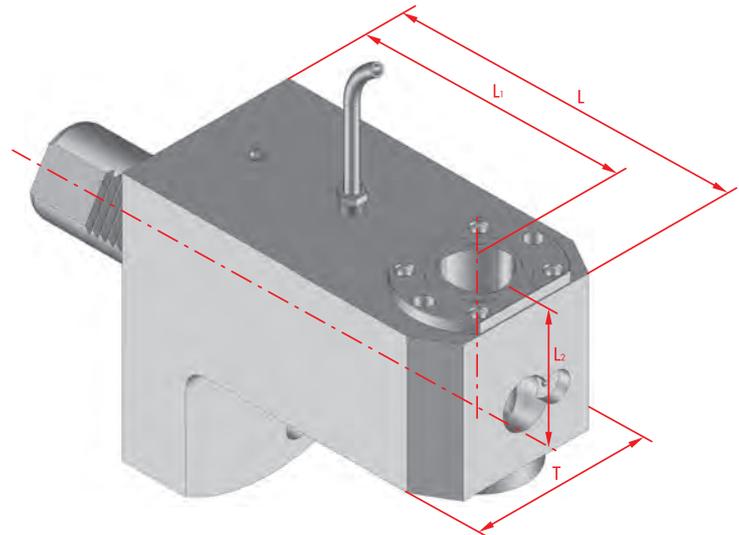
**NEXUS QTNX + SQT  
+ SUPER QUADREX**

Modular interface

**mimaticCAPTO**



Internal coolant supply



Order No.	Size	Machine	Coolant	L mm	L1 mm	L2 mm	T mm
172896	C4	QTNX 200/250 + SQT 15/18 + SQ 200/250	internal + external	164	140	61	85
173607	C5	SQT 300/350/400	internal + external	215	175	61	100

## Turning Toolholder

for manufacturer

**Mazak**

for machine type

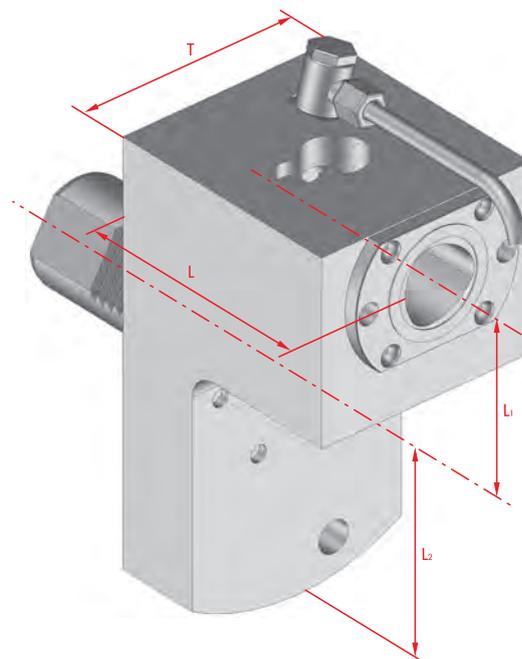
**NEXUS QTNX + SQT  
+ SUPER QUADREX**

Modular interface

**mimaticCAPTO**



Internal coolant supply



Order No.	Size	Machine	Coolant	L mm	L1 mm	L2 mm	T mm
172897	C4	QTNX 200/250 + SQT 15/18 + SQ 200/250	internal + external	99	61	–	85
173584	C5	SQT 300/350/400	internal + external	130	61	–	100

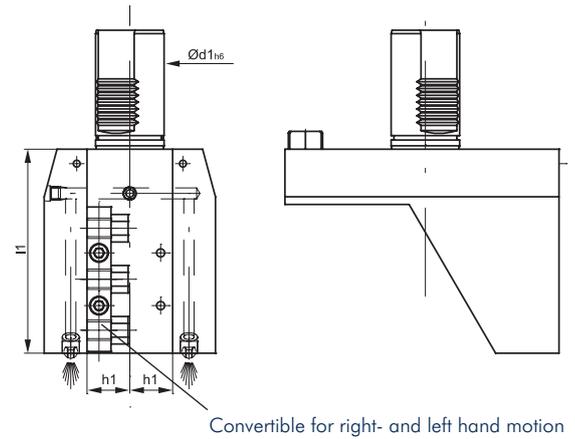
## Combi Outer Turning Toolholder (right-hand/left-hand)

for manufacturer  
**Mazak**

for machine type  
**NEXUS QTNX + SQT**



Internal coolant supply



Convertible for right- and left hand motion

Order No.	Size	Machine	d1 mm	l1 mm	h1 mm
117986	VDI 40	QTNX 100 + SQT 10	40	100	20
152683	VDI 40	QTNX 200/250 + SQT 15	40	120	25
118022	VDI 50	QTNX 300/350 + SQT 28/30	50	150	25

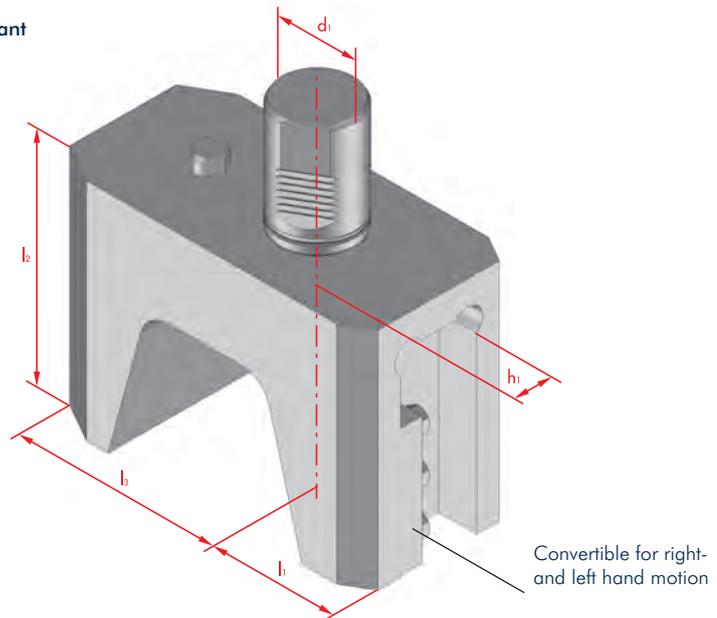
## Combi Outer Turning Toolholder, Duo Type (right-hand/left-hand)

for manufacturer  
**Mazak**

for machine type  
**NEXUS QTNX + SQT**



Internal coolant supply



Order No.	Size	Machine	d1 mm	l1 mm	l2 mm	l3 mm	h1 mm
117988	VDI 40	QTNX 100 + SQT 10	40	65	100	96	20
117996	VDI 40	QTNX 200/250 + SQT 15	40	65	125	95	25
118010	VDI 50	QTNX 300/350 + SQT 28/30	50	80	146	128	25

# Combi Outer Turning Toolholder, Twin Type

for manufacturer

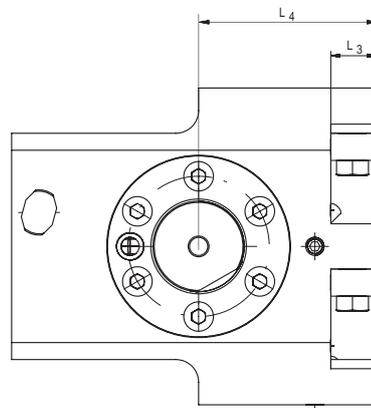
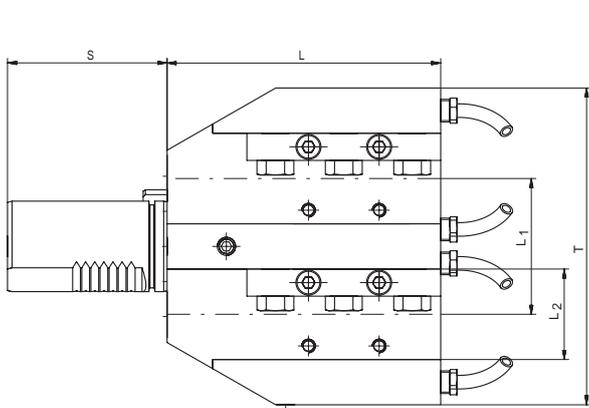
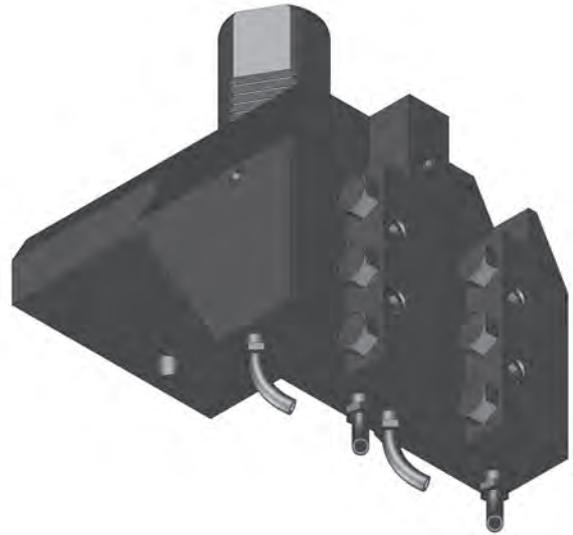
**Mazak**

for machine type

**QUICK TURN NEXUS  
200/250/300/350-II**



Internal coolant supply



Order No.	Size	Machine	L mm	L1 mm	L2 mm	L3 mm	L4 mm	S mm	T mm
169641	VDI 40	QUICK TURN NEXUS 200/250-II	120	60	40 mm	20 mm	78	70	140
169787	VDI 40	QUICK TURN NEXUS 200/250-II	120	60	1½"	¾"	78	70	140
171044	VDI 50	QUICK TURN NEXUS 300/350-II	150	70	50 mm	25 mm	86	75	160
171087	VDI 50	QUICK TURN NEXUS 300/350-II	150	70	2"	1"	86	75	160

# Combi Turning Toolholder for Facing (right-hand/left-hand)

for manufacturer

**Mazak**

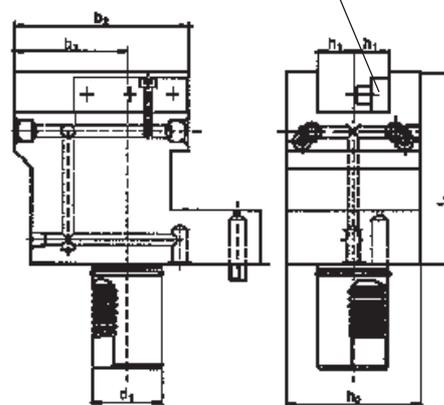
for machine type

**NEXUS QTNX + SQT**



Internal coolant supply

Convertible for right- and left hand motion



Order No.	Size	Machine	d1 mm	h2 mm	l1 mm	b1 mm	b2 mm	h1 mm
118000	VDI 40	QTNX 100 + SQT 10	40	76	110	60	110	20
117990	VDI 40	QTNX 200/250 + SQT 15	40	86	143	65	115	25
118012	VDI 50	QTNX 300/350 + SQT 28/30	50	98	163	57	120	25

We also produce static toolholders with mimatic Capto interface. Please ask for details.

Picture shows a straight static toolholder with mimatic Capto C4 interface for Mazak MP 6200.



## Boring Bar Holder

for manufacturer

**Mazak**

for machine type

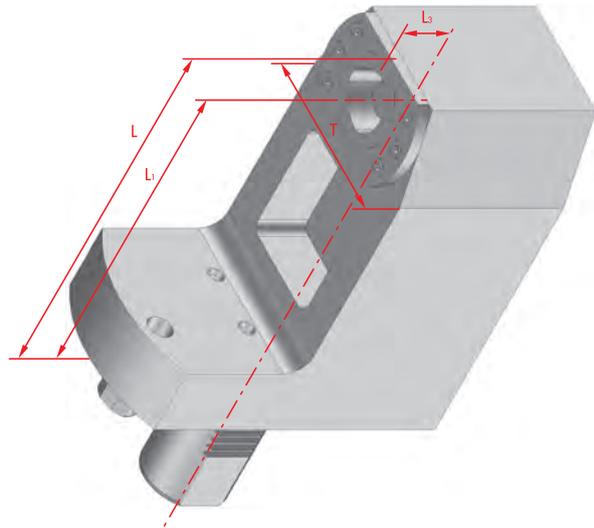
**MULTIPLEX  
+ HYPER QUADREX**

Modular interface

**mimaticCAPTO**



Internal coolant supply



Order No.	Size	Machine	Coolant	L mm	L1 mm	L2 mm	L3 mm	T mm
<b>Main spindle:</b>								
173609	C4	Multiplex 610 (MP 620-16x) + HQ 150	internal + external	154	130	18	60	85
169828	C4	Multiplex 620 (12x) + HQ 200	internal + external	174	150	18	70	85
173608	C5	Multiplex 630	internal + external	230	190	30	80	100
<b>Main- and Subspindle:</b>								
172270	C4 (2x)	Hyper Quadrex 200	internal	184	160/130	18	76	85

## Turning Toolholder

for manufacturer

**Mazak**

for machine type

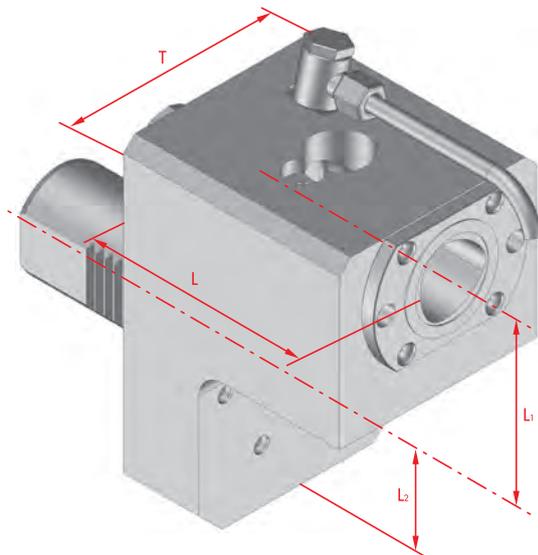
**MULTIPLEX  
+ HYPER QUADREX**

Modular interface

**mimaticCAPTO**



Internal coolant supply



Order No.	Size	Machine	Coolant	L mm	L1 mm	L2 mm	T mm
<b>Main spindle:</b>							
173578	C4	Multiplex 610 (MP 620-16x) + HQ 150	internal + external	75	61	–	85
173610	C4	Multiplex 620 (12x) + HQ 200	internal + external	100	63	–	85
173611	C5	Multiplex 630	internal + external	120	95	–	100
<b>Main- and Subspindle:</b>							
172269	C4 (2x)	Hyper Quadrex 200	internal	100	63	58	85

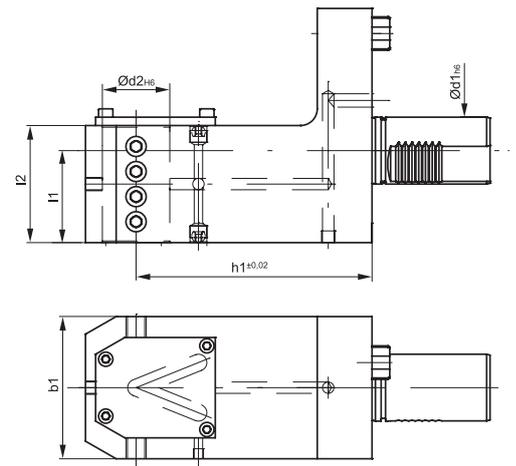
## Combi Toolholder

for manufacturer  
**Mazak**

for machine type  
**MULTIPLEX**



Internal coolant supply



- Reduction Sleeves and Collet inserts see pages 80-81



Order No.	Size	Machine	d1 mm	d2 mm	l1 mm	l2 mm	b1 mm	h1 mm
117979	VDI 40	MP 610	40	25	10	65	76	130
117981	VDI 40	MP 610	40	32	10	65	76	130
117982	VDI 40	MP 610	40	40	10	65	76	130
117983	VDI 40	MP 620	40	25	10	70	76	150
117964	VDI 40	MP 620	40	32	10	70	76	150
117984	VDI 40	MP 620	40	40	10	70	76	150
117985	VDI 40	MP 620	40	50	10	70	76	150

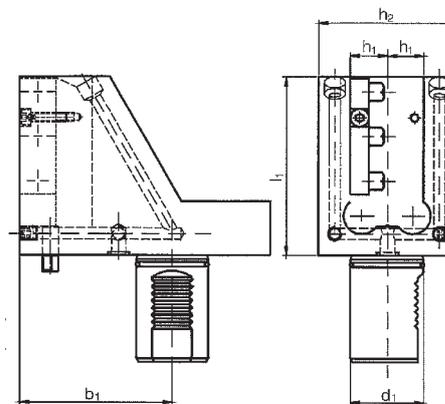
## Combi Outer Turning Toolholder

for manufacturer  
**Mazak**

for machine type  
**MULTIPLEX**



Internal coolant supply



Order No.	Size	Machine	d1 mm	l1 mm	h2 mm	b1 mm	h1 mm
117997	VDI 40	MP 610	40	100	76	85	20
117998	VDI 40	MP 620	40	120	50	83	25

## Multi Purpose Holder

for manufacturer

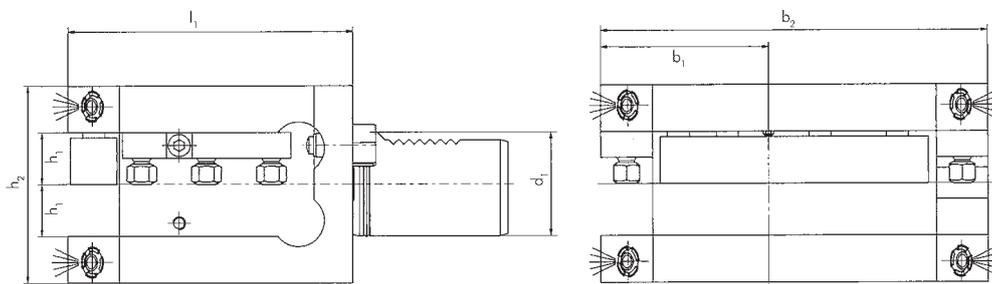
**Mazak**

for machine type

**HYPER QUADREX  
100/150 MSY**



Internal coolant supply



Order No.	Size	Machine	d1 mm	l1 mm	h2 mm	b1 mm	b2 mm	h1 mm
176539	VDI 40	HQ 100	40	110	76	85	65	20

## Combi Turning Toolholder for Facing

for manufacturer

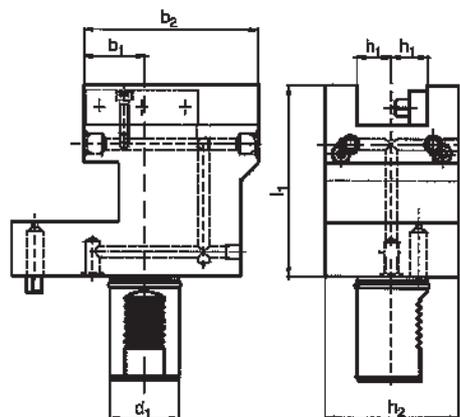
**Mazak**

for machine type

**MULTIPLEX**



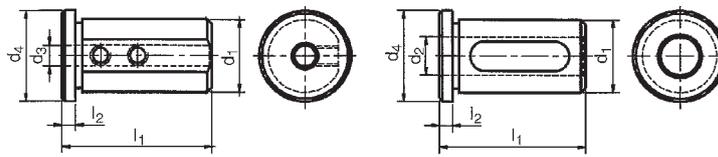
Internal coolant supply



Order No.	Size	Machine	d1 mm	b2 mm	l1 mm	h2 mm	b1 mm	h1 mm
117992	VDI 40	MP 610	40	100	110	76	35	20
117993	VDI 40	MP 620	40	115	143	80	35	25

## Accessories for Mazak Combi Toolholders

### Sleeve



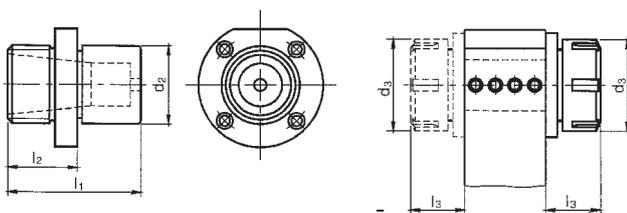
Pict. 1

Pict. 2

Order No.	Pict.	d1 mm	d2 mm	d3 mm	d4 mm	l1 mm	l2 mm
104527	1	25		6	29	50	4
104444	1	25		8	29	50	4
104445	1	25		10	29	50	4
104494	1	25		12	29	50	4
104537	2	25	16		29	50	4
104469	2	25	20		29	50	4
104528	1	32		6	36	58	5
104519	1	32		8	36	58	5
104454	1	32		10	36	58	5
104487	1	32		12	36	58	5
104548	2	32	16		36	58	5
104489	2	32	20		36	58	5
104522	2	32	25		36	58	5
104513	1	40		6	44	58	5
104507	1	40		8	44	58	5

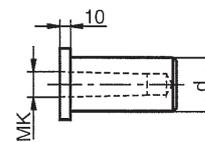
Order No.	Pict.	d1 mm	d2 mm	d3 mm	d4 mm	l1 mm	l2 mm
104549	1	40		10	44	58	5
104531	1	40		12	44	58	5
104514	2	40	16		44	58	5
104555	2	40	20		44	58	5
104551	2	40	25		44	58	5
104609	2	40	32		44	58	5
168951	1	50		6	54	75	5
104585	1	50		8	54	75	5
104552	1	50		10	54	75	5
104558	1	50		12	54	75	5
104525	2	50	16		54	75	5
104586	2	50	20		54	75	5
104587	2	50	25		54	75	5
104588	2	50	32		54	75	5
104559	2	50	40		54	75	5

### Collet Insert



Order No.	d2 mm	Size	Range	d3 mm	l1 mm	l2 mm	l3 mm
135232	32	E 430	2-16	42	49	25	37
135239	32	E 470	3-20	50	52	28	41
135234	40	E 430	2-16	42	49	25	37
135238	40	E 470	3-20	50	52	28	41
135233	50	E 472	4-26	63	52	28	42

### Drill Adapting Sleeve



Order No.	d mm	MK
105152	25	1
105134	25	2
105176	32	1
105191	32	2
105192	32	3
105086	40	1
105125	40	2
105103	40	3
105120	40	4
105068	50	2
105049	50	3
105087	50	4

## Accessories for Combi Toolholders

### Collet Set acc. to DIN 6499, Class 2



Order No.	Pieces	Size	Range
152712	10	ER 16	1-10
152713	15	ER 25	2-16
152715	18	ER 32	3-20
152716	23	ER 40	4-26

### Steel blanking Plug for MAZAK CNC Turning Machines



Order No.	Size
118017	VDI 40
118049	VDI 50

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<b>Combination Shell End Mill Arbors</b> 	Ø 16-27 mm		84
<b>Weldon Toolholders</b> <b>Whistle-Notch Toolholders</b> 	Ø 6-25 mm Ø 1/4"-1/0"	DIN 1835 B DIN 1835 B	85 85
<b>Synax® Tapping Quick Change Holders</b> 	Ø 3,5-16 mm		86
<b>Softsynchro Chucks</b> <b>(Licence Emuge)</b> 	M4-M12		86
<b>Hydraulic Chucks</b> 	Ø 12 + 20 mm Accessories		86 87
<b>Shrink fit Chucks</b> 	Ø 8-20 mm Accessories		88 88
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## 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 mm
- Secure holding force by form-locking
- Very short design
- Toolholders in different sizes
- All toolholders with internal coolant

## Use on CNC-Turning Machines and Machining Centers

Driven toolholders for all turning machines, machining centers, milling machines, turn/mill centers as well as transfer and special machines. Driven toolholders / basic holders are available in many different versions:

- Shafts such as VDI, SK, BT, CAT, HSK, Capto, ...
- Straight and angle units
- Single or multi-spindle versions
- Gear multiplication or reduction
- Internal and/or external coolant supply
- Central or offset

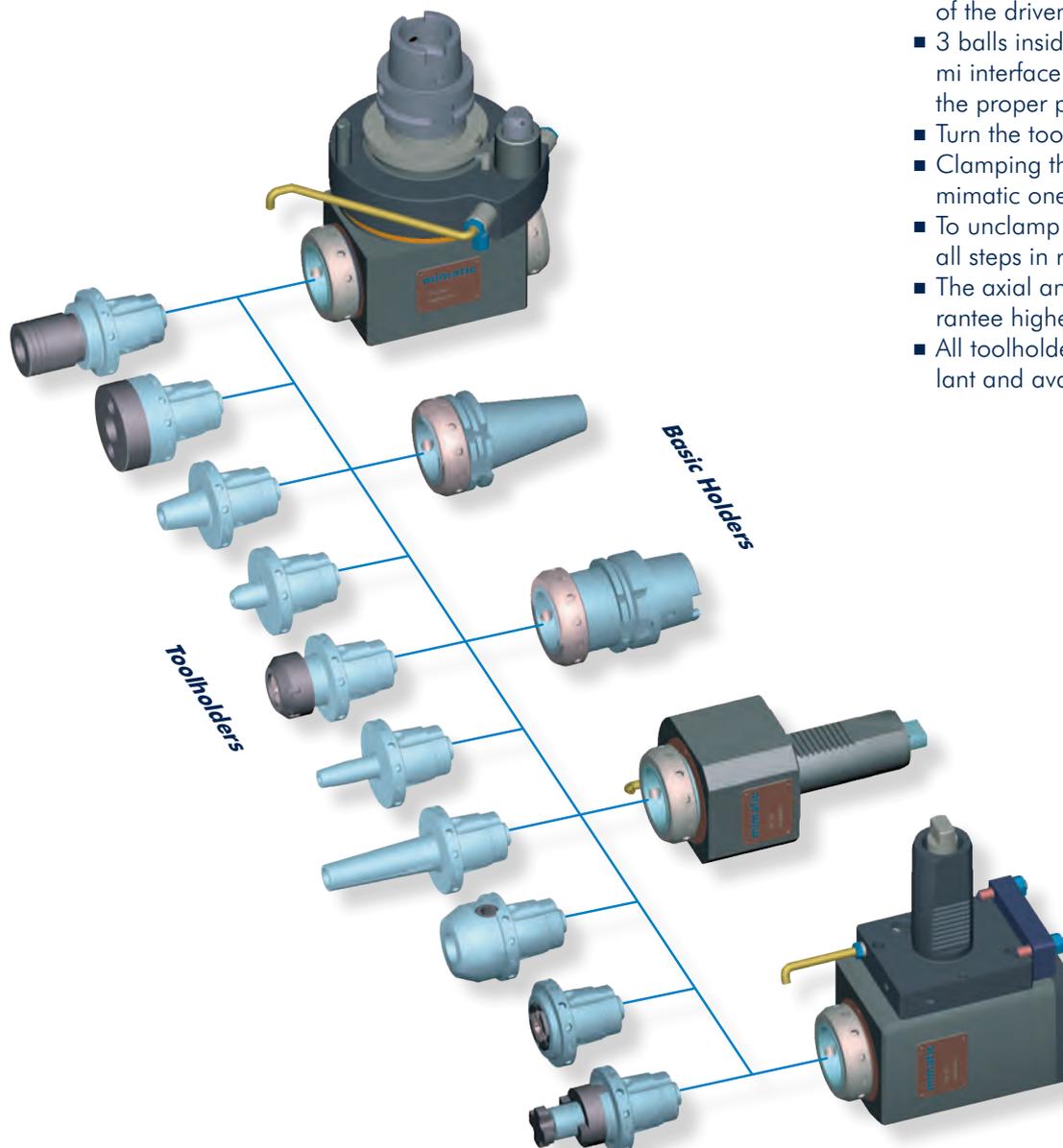
## Modular Toolholders in Different Sizes for All Production Areas

- 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.

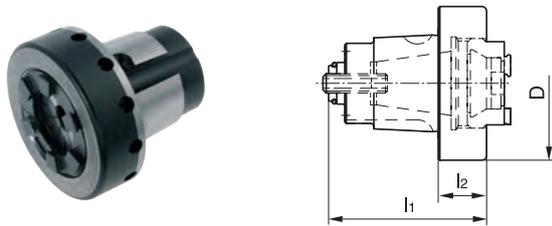
## mi Operation

- Insert the toolholder into the spindle of the driven toolholder
- 3 balls inside the modular mimatic mi interface guide the toolholder into the proper position
- Turn the toolholder until it is locked
- Clamping the sleeve nut by using the mimatic one hand key
- To unclamp the toolholder just follow all steps in reverse order
- The axial and conical surface guarantee highest concentricity
- All toolholders are with internal coolant and available in different sizes

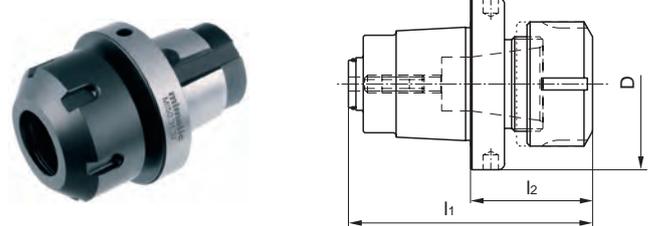


## Collet Chucks DIN 6499 – Type ER

- short type
- clamping nut inside
- with internal coolant



- long type
- clamping nut outside
- with internal coolant

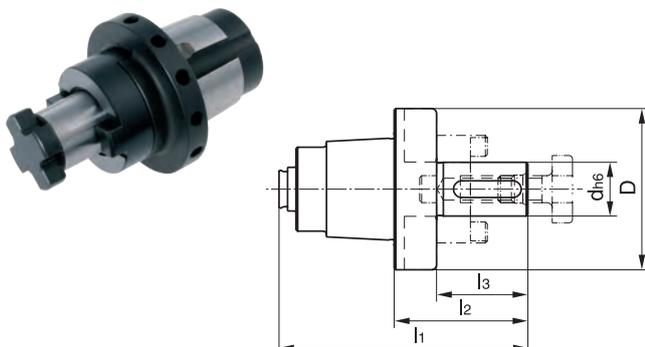


Order No.	Size	Collet	l1 mm	l2 mm	D mm
121479	mi 32	ER 11	41,5	15	42
155357	mi 32	ER 16	41,5	15	42
171839	mi 32	ER 20	59,0	32	36
155388	mi 40	ER 16	45,0	11	48
155335	mi 40	ER 20	49,0	15	48
155367	mi 40	ER 25	55,0	21	48
155418	mi 50	ER 25	55,0	14	58
155460	mi 50	ER 32	59,0	18	58
155471	mi 63	ER 32	63,0	14	75
155496	mi 63	ER 40	69,0	20	75

Order No.	Size	Collet	l1 mm	l2 mm	D mm
155358	mi 32	ER 11	72,5	46,0	42
155319	mi 32	ER 16	64,5	38,0	42
121460	mi 40	ER 16	73,0	39,0	48
121502	mi 40	ER 20	80,0	46,6	48
155448	mi 50	ER 25	82,0	41,0	58
155445	mi 50	ER 32	88,0	47,0	58
155475	mi 63	ER 32	96,0	47,0	75
155451	mi 63	ER 40	94,5	45,5	75

## Combination Shell End Mill Arbor

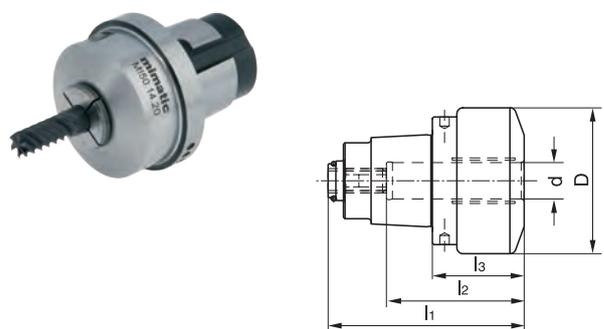
without internal coolant



Order No.	Size	l1 mm	l2 mm	l3 mm	d h6 mm	D mm
121486	mi 32	66,0	39,5	27	16	42
155365	mi 40	73,5	39,5	25	16	48
155447	mi 50	82,0	41,0	27	16	58
155413	mi 50	88,0	47,0	31	22	58
155512	mi 63	96,0	47,0	31	22	75
155465	mi 63	98,0	49,0	33	27	75

## Hydraulic Chuck

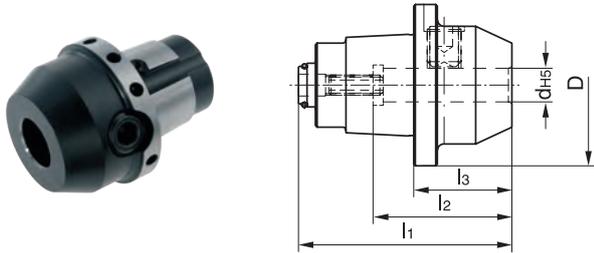
with internal coolant



Order No.	Size	l1 mm	l2 mm	l3 mm	d h6 mm	D mm
155391	mi 40	64	45	30	12	48
155417	mi 50	71	52	30	20	58

## Weldon Toolholder DIN 1835 B

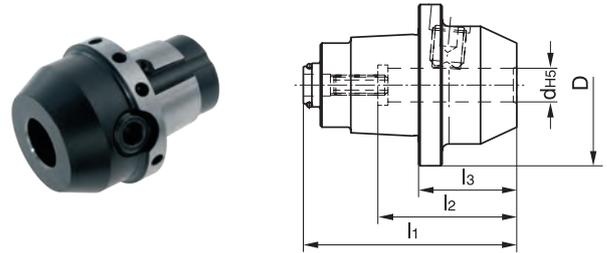
with internal coolant



Order No.	Size	l1 mm	l2 mm	l3 mm	d H5 mm / "	D mm
121436	mi 32	52,5	37	26,0	6	42
121478	mi 32	52,5	37	26,0	8	42
121469	mi 32	55,5	41	29,0	10	42
121439	mi 32	57,5	46	31,0	12	42
121449	mi 32	52,5	37	26,0	1/4"	42
121472	mi 32	55,5	41	29,0	3/8"	42
121448	mi 32	57,5	46	31,0	1/2"	42
155330	mi 40	60,0	37	26,0	6	48
155346	mi 40	60,0	37	26,0	8	48
155321	mi 40	63,0	41	29,0	10	48
155331	mi 40	65,0	46	31,0	12	48
155326	mi 40	65,0	46	31,0	14	48
155379	mi 40	68,0	49	34,0	16	48
121497	mi 40	60,0	37	26,0	1/4"	48
121475	mi 40	63,0	41	29,0	3/8"	48
121474	mi 40	65,0	46	31,0	1/2"	48
121499	mi 40	68,0	49	34,0	5/8"	48
155419	mi 50	65,0	37	24,0	6	58
155411	mi 50	66,0	37	25,0	8	58
155400	mi 50	70,0	41	29,0	10	58
155406	mi 50	73,0	46	32,0	12	58
155412	mi 50	73,0	46	32,0	14	58
155407	mi 50	74,0	49	33,0	16	58
155427	mi 50	78,0	51	37,0	20	58
121489	mi 50	65,0	37	24,0	1/4"	58
121529	mi 50	40,0	41	29,0	3/8"	58
121525	mi 50	73,0	46	32,0	1/2"	58
121520	mi 50	75,0	49	34,0	5/8"	58
121526	mi 50	78,0	51	37,0	3/4"	58
155470	mi 63	81,0	37	32,0	6	75
155459	mi 63	82,0	37	33,0	8	75
155490	mi 63	85,0	41	36,0	10	75
155509	mi 63	88,5	46	39,5	12	75
155463	mi 63	88,5	46	39,5	14	75
155482	mi 63	91,0	49	42,0	16	75
155474	mi 63	93,0	51	44,0	20	75
155464	mi 63	110	59	61,0	25	75
166815	mi 63	81,0	37	32,0	1/4"	75
166805	mi 63	85,0	41	36,0	3/8"	75
166813	mi 63	88,5	46	39,5	1/2"	75
166807	mi 63	91,0	49	42,0	5/8"	75
166804	mi 63	93,0	51	44,0	3/4"	75
166812	mi 63	110	59	61,0	1/0"	75

## Whistle Notch Toolholder DIN 1835 E

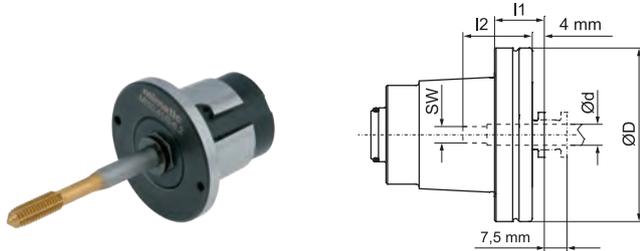
with internal coolant



Order No.	Size	l1 mm	l2 mm	l3 mm	d H5 mm / "	D mm
121463	mi 32	52,5	36	26,0	6	42
121464	mi 32	52,5	36	26,0	8	42
121443	mi 32	55,5	40	29,0	10	42
121453	mi 32	57,5	45	31,0	12	42
121442	mi 32	52,5	36	26,0	1/4"	42
121485	mi 32	55,5	40	29,0	3/8"	42
121480	mi 32	57,5	45	31,0	1/2"	42
155369	mi 40	60,0	36	26,0	6	48
155363	mi 40	60,0	36	26,0	8	48
155370	mi 40	63,0	40	29,0	10	48
155364	mi 40	65,0	45	31,0	12	48
155333	mi 40	65,0	45	31,0	14	48
155382	mi 40	68,0	48	34,0	16	48
121492	mi 40	60,0	36	26,0	1/4"	48
121493	mi 40	63,0	40	29,0	3/8"	48
121455	mi 40	65,0	45	31,0	1/2"	48
121494	mi 40	68,0	48	34,0	5/8"	48
169197	mi 40	89,0	50	55,0	20	52
155416	mi 50	65,0	36	24,0	6	58
155401	mi 50	66,0	36	25,0	8	58
155383	mi 50	70,0	40	29,0	10	58
155408	mi 50	73,0	45	32,0	12	58
155435	mi 50	73,0	45	32,0	14	58
155436	mi 50	75,5	48	34,5	16	58
155384	mi 50	78,0	50	37,0	20	58
166816	mi 50	65,0	36	24,0	1/4"	58
155440	mi 50	70,0	40	29,0	3/8"	58
155434	mi 50	73,0	45	32,0	1/2"	58
155428	mi 50	75,0	48	34,0	5/8"	58
155385	mi 50	78,0	50	37,0	3/4"	58
166104	mi 63	81,0	36	32,0	6	75
166105	mi 63	82,0	36	33,0	8	75
166110	mi 63	85,0	40	36,0	10	75
166112	mi 63	88,5	45	39,5	12	75
166113	mi 63	88,5	45	39,5	14	75
166114	mi 63	91,0	48	42,0	16	75
166115	mi 63	93,0	50	44,0	20	75
166116	mi 63	110	56	61,0	25	75
166797	mi 63	81,0	36	32,0	1/4"	75
166799	mi 63	85,0	40	36,0	3/8"	75
166796	mi 63	88,5	45	39,5	1/2"	75
166803	mi 63	91,0	48	42,0	5/8"	75
166798	mi 63	93,0	50	44,0	3/4"	75
166795	mi 63	110	56	61,0	1/0"	75

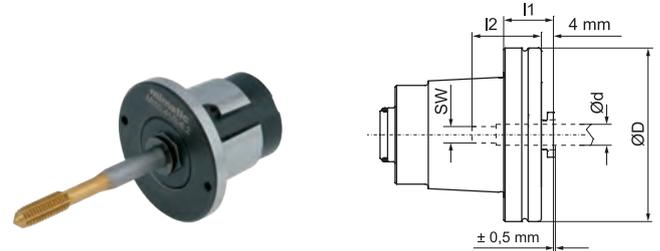
## SYNAX® Tapping Quick Change Holder

without internal coolant,  
with synchronisation and length compensation



Order No.	Size	l1 mm	l2 mm	d mm	D mm	SW
121510	mi 40	17,0	25	3,5	48	2,7
155397	mi 40	17,0	25	4,5	48	3,4
155377	mi 40	17,0	27	6,0	48	4,9
155378	mi 40	17,0	27	8,0	48	6,2
155403	mi 40	38,0	28	9,0	48	7,0
121451	mi 40	38,0	29	10,0	48	8,0
121498	mi 40	38,0	30	12,0	48	9,0
155450	mi 50	16,5	25	3,5	58	2,7
155487	mi 50	16,5	25	4,5	58	3,4
155422	mi 50	16,5	27	6,0	58	4,9
155497	mi 50	16,5	27	7,0	58	5,5
155455	mi 50	16,5	27	8,0	58	6,2
155423	mi 50	16,5	28	9,0	58	7,0
155466	mi 50	16,5	29	10,0	58	8,0
155472	mi 50	44,0	36	11,0	58	9,0
155449	mi 50	16,5	30	12,0	58	9,0
155479	mi 50	44,0	33	16,0	58	12,0

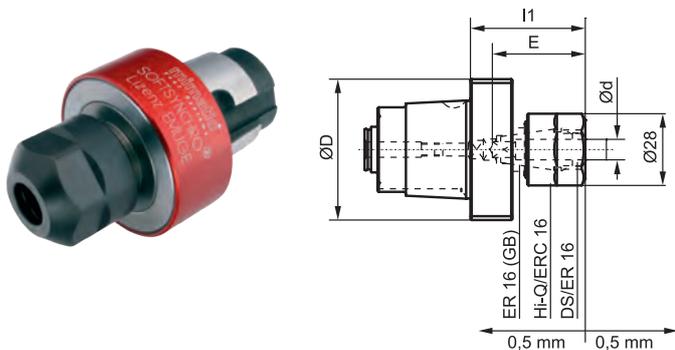
with internal coolant (70 bar),  
only synchronisation



Order No.	Size	l1 mm	l2 mm	d mm	D mm	SW
155389	mi 40	17,0	27	6	48	4,9
121522	mi 40	17,0	27	8	48	6,2
121515	mi 40	38,0	28	9	48	7,0
121504	mi 40	38,0	29	10	48	8,0
121517	mi 40	38,0	30	12	48	9,0
155432	mi 50	16,5	27	6	58	4,9
172720	mi 50	16,5	27	7	58	5,5
155498	mi 50	16,5	27	8	58	6,2
155473	mi 50	16,5	28	9	58	7,0
155467	mi 50	16,5	29	10	58	8,0
155446	mi 50	16,5	30	12	58	9,0
121534	mi 50	44,0	33	16	58	12,0

## Softsynchro Chuck (Licence Emuge)

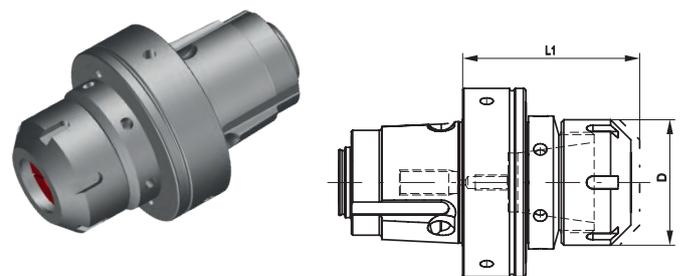
with internal coolant,  
with push and pull length  
compensation 0,5 mm



Order No.	Size	Collet	Thread	l1 mm	d mm	D mm
121503	mi 40	ER-GB 16	M4-M12	47,5	4,5-10	45
121530	mi 50	ER-GB 16	M4-M12	44,5	4,5-10	50

## Chuck for GB Collets

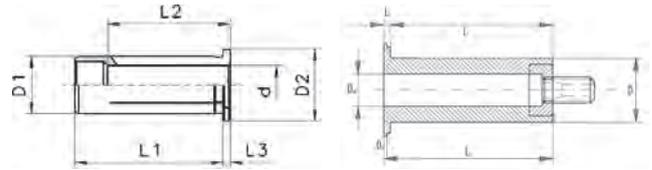
with internal coolant,  
with push and pull length  
compensation ± 0,5 mm



Order No.	Size	Collet	L1 mm	D mm
121518	mi 40	ER 20 GB(1-13)	60	28
155488	mi 50	ER 25 GB(1-16)	60	42
155491	mi 63	ER 32 GB(2-20)	70	50

## Accessories for Hydraulic Chucks

### Sleeve



without horizontal adjustment

with horizontal adjustment

Order No.	D1 mm	d h6 mm / "	L1 mm	L2 mm	L3 mm	D2 mm
119790	12	3	40	29	4	16
119793	12	1/8"	40	29	4	16
119797	12	4	40	29	4	16
119798	12	3/16"	40	29	4	16
119819	12	5	40	29	4	16
119812	12	6	40	36	4	16
119813	12	1/4"	40	36	4	16
119791	12	7	40	37	4	16
119799	12	5/16"	40	37	4	16
119810	12	8	40	37	4	16
119792	12	9	40	37	4	16
119815	12	3/8"	40	40	4	16
119814	12	10	40	40	4	16
119816	20	3	50	28	4	25
119823	20	1/8"	50	28	4	25
119817	20	4	50	28	4	25
119837	20	3/16"	50	28	4	25
119800	20	5	50	28	4	25
119801	20	6	50	36	4	25
119822	20	1/4"	50	36	4	25
119818	20	7	50	38	4	25
119839	20	5/16"	50	37	4	25
119820	20	8	50	37	4	25
119802	20	9	50	38	4	25
119838	20	3/8"	50	38	4	25
119824	20	10	50	40	4	25
119825	20	11	50	40	4	25
119830	20	7/16"	50	45	4	25
119826	20	12	50	45	4	25
119821	20	1/2"	50	45	4	25
119827	20	14	50	45	4	25
119846	20	9/16"	50	45	4	25
119829	20	5/8"	50	48	4	25
119828	20	16	50	48	4	25
119847	25	3	56	29	4	30
119848	25	4	56	29	4	30
119831	25	5	56	29	4	30
119849	25	6	56	37	4	30
119832	25	7	56	37	4	30
119833	25	8	56	37	4	30
119834	25	9	56	38	4	30
119850	25	10	56	40	4	30
119835	25	12	56	46	4	30
119851	25	14	56	47	4	30
119836	25	16	56	48	4	30
119841	25	18	56	48	4	30
119842	25	20	56	50	4	30
119844	32	6	60	36	4	36

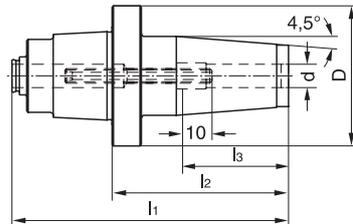
Order No.	D1 mm	d h6 mm / "	L1 mm	L2 mm	L3 mm	D2 mm
119857	32	1/4"	60	36	4	36
119845	32	7	60	37	4	36
119879	32	5/16"	60	36	4	36
119852	32	8	60	36	4	36
119855	32	9	60	37	4	36
119884	32	3/8"	60	37	4	36
119864	32	10	60	40	4	36
119853	32	11	60	40	4	36
119858	32	12	60	45	4	36
119856	32	1/2"	60	45	4	36
119859	32	13/16"	60	45	4	36
119865	32	14	60	46	4	36
119854	32	15/16"	60	46	4	36
119861	32	5/8"	60	46	4	36
119866	32	16	60	48	4	36
119870	32	18	60	49	4	36
119878	32	3/4"	60	50	4	36
119877	32	20	60	50	4	36
119867	32	25	60	56	4	36

### with horizontal adjustment

119909	20	6	50	52	-	28
119889	20	8	50	52	-	28
152696	20	10	50	52	-	28
119910	20	12	50	52	-	28
119901	20	14	50	52	-	28
119911	20	16	50	52	-	28
119892	20	18	50	52	-	28
119893	25	10	56	59	-	32
119912	25	12	56	59	-	32
119894	25	14	56	59	-	32
119895	25	16	56	59	-	32
167144	25	18	56	59	-	32
167045	25	20	56	59	-	32

## Shrink fit Chuck

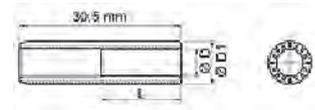
with internal coolant



Order No.	Size	l1 mm	l2 mm	l3 mm	d h6 mm	D mm
155381	mi 40	94	60	36	8	48
121482	mi 40	94	60	42	10	48
155334	mi 40	99	65	47	12	48
121501	mi 40	104	70	50	16	48
155421	mi 50	101	60	36	8	58
155409	mi 50	101	60	42	10	58
155444	mi 50	106	65	47	12	58
155438	mi 50	106	65	47	14	58
155430	mi 50	111	70	50	16	58
155431	mi 50	116	75	50	18	58
155454	mi 50	116	75	52	20	58

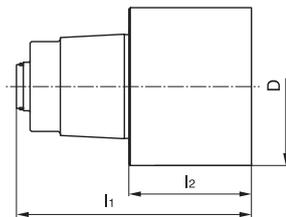
## Accessories for Shrink fit Chucks

Sleeve



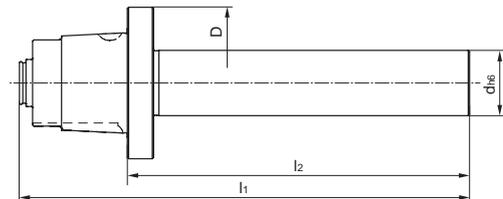
Order No.	L mm	L1 mm	d h6 mm	D mm
119807	30,5	7,5	2,5	8
119787	30,5	9,0	3,0	8
119808	30,5	10,5	3,5	8
119809	30,5	12,0	4,0	8
119788	30,5	13,5	4,5	8
119789	30,5	15,0	5,0	8
119796	30,5	16,5	5,5	8

## Blank



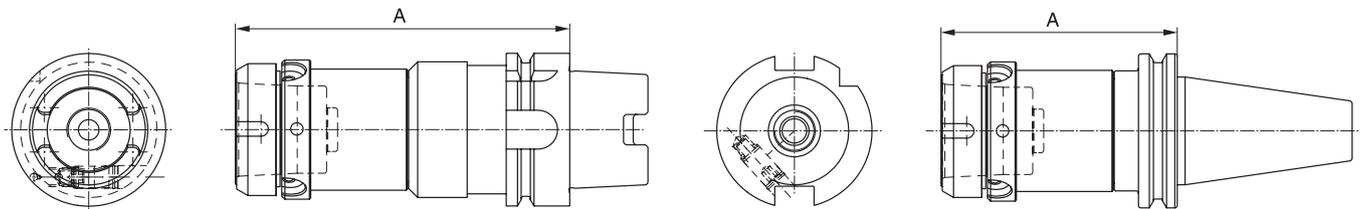
Order No.	Size	l1 mm	l2 mm	D mm
121457	mi 32	76,5	50	42
166791	mi 40	94,0	60	48
166789	mi 50	111,0	70	58
121557	mi 63	129,0	80	75

## Test Mandrel



Order No.	Size	l1 mm	l2 mm	d h6 mm	D mm
170569	mi 25		110		14
172991	mi 32		110		18
156208	mi 40		130		20
156082	mi 50		130		25
172992	mi 63		150		32

## Tool Presetting Unit

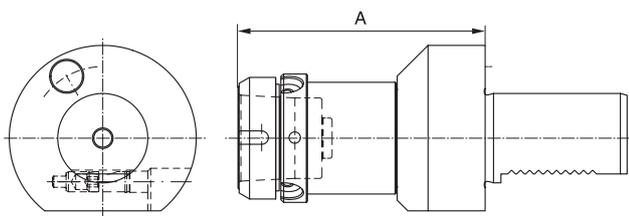


### HSK Types

Order No.	Size	HSK	A mm
171098	mi 25	63	130
155352	mi 32	63	130
155380	mi 40	63	134,5
173224	mi 40	100	143
155429	mi 50	63	136,9
168301	mi 50	100	143
166990	mi 63	63	147
169267	mi 63	100	155

### SK Types

Order No.	Size	SK	A mm
121471	mi 40	40	95
121491	mi 40	50	128
155405	mi 50	40	97
121527	mi 50	50	140
155504	mi 63	50	140



### VDI Types

Order No.	Size	VDI	A mm
155368	mi 40	40	108
155356	mi 50	40	110
155372	mi 40	50	108
121524	mi 50	50	110

## Accessories for mi-system

### Complete Wrench for One-hand Operation



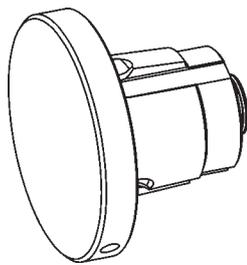
Order No.	Size
170734	mi 25, mi 32, mi 40
170419	mi 50, mi 63

### Socket Wrench for Torque Wrench



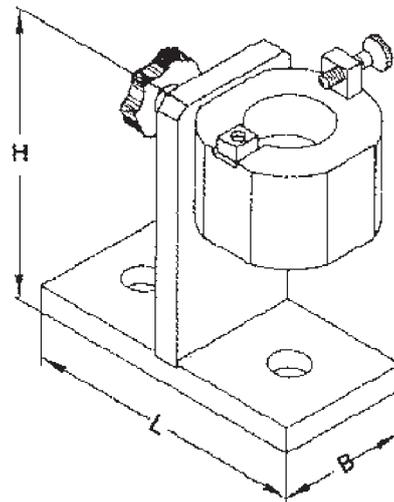
Order No.	Size	L mm	Wrench size
173988	mi 25, mi 32, mi 40	50	1/4"
173985	mi 50, mi 63	50	1/4"

### Protection Plug



Order No.	Size
174460	mi 32
174458	mi 40
174457	mi 50
174459	mi 63

### Assembling Jig



Order No.	Size	L mm	B mm	H mm
166774	SK 40	130	64	136
166775	HSK 63	130	64	136
121571	VDI 40	130	64	136

## Accessories

### Wrenches and Clamping Nuts



#### Wrench for ER Clamping Nuts

Order No.	Size	Type
112912	ER 11	inlying
112954	ER 16	inlying
112929	ER 20	inlying
112913	ER 25	inlying
112900	ER 32	inlying
112867	ER 40	inlying
107628	ER 40	outlying

#### ER Clamping Nuts

Order No.	Size	Type	Internal coolant
112953	ER 11	inlying	
112860	ER 16	inlying	
112938	ER 20	inlying	
112961	ER 25	inlying	
112977	ER 32	inlying	
112946	ER 40	inlying	
112962	ER 16	inlying	✓
112940	ER 20	inlying	✓
112901	ER 25	inlying	✓
112963	ER 32	inlying	✓
112978	ER 40	inlying	✓
112513	ER 40	outlying	
117744	ER 40	outlying	✓

### Hook wrench to hold against

#### DIN 1810 A



#### DIN 1810 B



### Collet Sets



#### DIN 6499-B, Class 2

Order No.	Pieces	Size	Range
152712	10	ER 16	1-10
120174	12	ER 20	2-13
152713	15	ER 25	2-16
152715	18	ER 32	3-20
152716	23	ER 40	4-26

#### DIN 6499-B, (6 µm)

Order No.	Pieces	Size	Range
120131	10	ER 16	1-10
120154	12	ER 20	2-13
120349	15	ER 25	2-16
120612	18	ER 32	3-20
120730	23	ER 40	4-26

#### Threading Collets Type ET with length compensation

Order No.	ET	Pieces	Size	Range
152717	16	9	2,5-6	M1-M8
152718	25	8	2,8-9	M2-M12
120847	32	8	4,5-12	M4-M16
120827	40	9	6,0-16	M4-M22

Order No.	Size	Type	DIN
107557	ER 16	inlying	1810-B
107608	ER 20	inlying	1810-B
107446	ER 25	inlying	1810-B
107558	ER 25	outlying	1810-A
107642	ER 32	inlying	1810-B
107607	ER 32	outlying	1810-B
107566	ER 40	inlying	1810-B
107446	ER 40	outlying	1810-A
107605		Sawblade holder	1810-A
107447		Milling arbor 22	1810-B

## Accessories

### ER Seal Disc

Order No.	Size	Tightness range (mm)
172713	ER 16	3,0-2,5
173372		4,0-3,5
163515		5,0-4,5
112891		6,0-5,5
163516		7,0-6,5
112897		8,0-7,5
163517		9,0-8,5
172458		10,0-9,5
163519		3,0-2,5
163518		4,0-3,5
163520	5,0-4,5	
112744	ER 20	6,0-5,5
112855		7,0-6,5
112865		8,0-7,5
163521		9,0-8,5
112844		10,0-9,5
163522		11,0-10,5
112892		12,0-11,5
112863		3,0-2,5
112833		4,0-3,5
112753		5,0-4,5
112871	ER 25	6,0-5,5
112839		7,0-6,5
112817		8,0-7,5
112890		9,0-8,5
112811		10,0-9,5
112752		11,0-10,5
112861		12,0-11,5
112870		13,0-12,5
112798		14,0-13,5
112862		15,0-14,5
112837	ER 32	16,0-15,5
112704		3,0-2,5
112705		4,0-3,5
112726		5,0-4,5
112831		6,0-5,5
112832		7,0-6,5
112834		8,0-7,5
112835		9,0-8,5
112725		10,0-9,5
112779		11,0-10,5
112733	12,0-11,5	
112804	13,0-12,5	
112827	14,0-13,5	
112688	15,0-14,5	
112806	16,0-15,5	
112809	17,0-16,5	
112769	18,0-17,5	
112797	19,0-18,5	
112829	20,0-19,5	

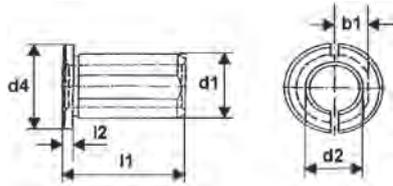
Order No.	Size	Tightness range (mm)
112910	ER 40	3,0-2,5
112951		4,0-3,5
112884		5,0-4,5
112959		6,0-5,5
112846		7,0-6,5
112911		8,0-7,5
112952		9,0-8,5
112821		10,0-9,5
112916		11,0-10,5
112924		12,0-11,5
112894		13,0-12,5
112881		14,0-13,5
112942		15,0-14,5
112822		16,0-15,5
112770		17,0-16,5
112762		18,0-17,5
112882		19,0-18,5
112845		20,0-19,5
112823		21,0-20,5
112934		22,0-21,5
112944	23,0-22,5	
112858	24,0-23,5	
112771	25,0-24,5	
112824	26,0-25,5	

### Set of Seal Disc

Order No.	Size	Piece	Tightness range (mm)	Grading
167490	ER 16	14	3-10	0,5
112907	ER 20	20	3-13	0,5
112735	ER 25	26	3-16	0,5
112715	ER 32	34	3-20	0,5
166918	ER 40	46	3,5-26	0,5

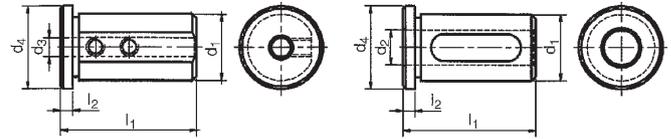
## Accessories for Toolholder VDI 3425

### Reducing Sleeve, Slotted



Order No.	d1 mm	d2 mm	d4 mm	l1 mm	l2 mm
104510	20	6	24	30	4
104492	20	8	24	30	4
104481	20	10	24	30	4
104461	20	12	24	30	4
104462	20	14	24	30	4
104501	20	15	24	30	4
104451	20	16	24	30	4
104418	25	6	29	40	4
104536	25	8	29	40	4
104493	25	10	29	40	4
104484	25	12	29	40	4
104504	25	14	29	40	4
104463	25	15	29	40	4
104545	25	16	29	40	4
104485	25	18	29	40	4
104511	25	20	29	40	4
104453	32	8	36	50	4
104529	32	10	36	50	4
104486	32	12	36	50	4
104563	32	14	36	50	4
104497	32	15	36	50	4
104547	32	16	36	50	4
104488	32	18	36	50	4
104498	32	20	36	50	4
104543	32	25	36	50	4
104508	40	10	44	78	4
104565	40	12	44	78	4
104550	40	14	44	78	4
104523	40	15	44	78	4
104582	40	16	44	78	4
104524	40	18	44	78	4
104591	40	20	44	78	4
104584	40	25	44	78	4
104608	40	32	44	78	4

### Reducing Sleeve



Pict. 1

Pict. 2

Order No.	Pict.	d1 mm	d2 mm	d3 mm	d4 mm	l1 mm	l2 mm
104527	1	25		6	29	50	4
104444	1	25		8	29	50	4
104445	1	25		10	29	50	4
104494	1	25		12	29	50	4
104537	2	25	16		29	50	4
104469	2	25	20		29	50	4
104528	1	32		6	36	58	5
104519	1	32		8	36	58	5
104454	1	32		10	36	58	5
104487	1	32		12	36	58	5
104548	2	32	16		36	58	5
104489	2	32	20		36	58	5
104522	2	32	25		36	58	5
104513	1	40		6	44	58	5
104507	1	40		8	44	58	5
104549	1	40		10	44	58	5
104531	1	40		12	44	58	5
104514	2	40	16		44	58	5
104555	2	40	20		44	58	5
104551	2	40	25		44	58	5
104609	2	40	32		44	58	5
168951	1	50		6	54	75	5
104585	1	50		8	54	75	5
104552	1	50		10	54	75	5
104558	1	50		12	54	75	5
104525	2	50	16		54	75	5
104586	2	50	20		54	75	5
104587	2	50	25		54	75	5
104588	2	50	32		54	75	5
104559	2	50	40		54	75	5

# mimatic mi – An Epitome of BlueCompetence

**BLUECOMPETENCE**

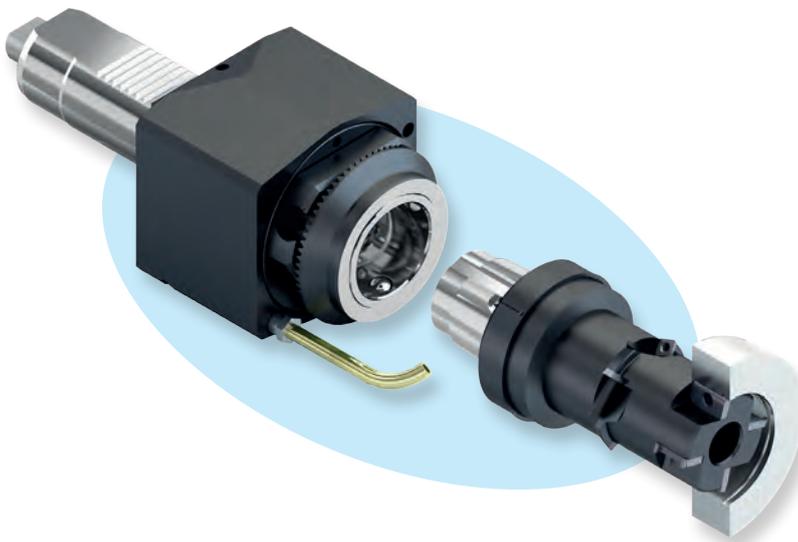
Alliance Member

Partner of the Engineering Industry Sustainability Initiative

## mimatic® Tool Systems for Sustainability and Efficiency

Tools according to the policy of BLUECOMPETENCE are marked in this catalogue. More information on the program (Initiative) of the VDMA see pages 16-17 in the main catalogue.

## mi – The Integrated Tool Solution = Driven Tool Holder + mi Interface + mi Tool



### Advantages

#### mi – Interface, Driven Tool Sided

- short taper + planar arrangement
- shorter construction
- convenient single-hand operation
- symmetrical 3-point intake

#### mi – Fast Change

- in the machine
- minimal tool changing time
- no pre-adjustment necessary

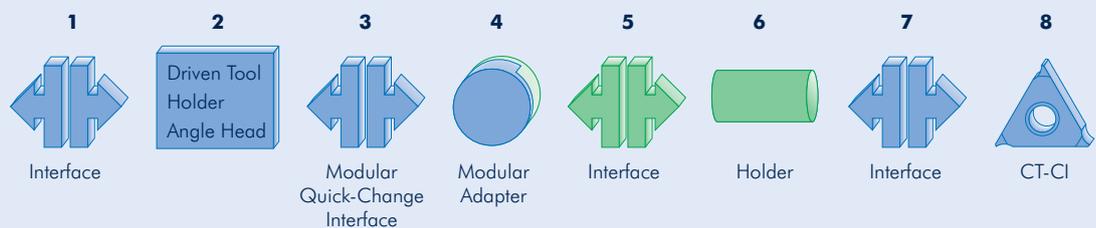
#### mi – Chipping Tool

- compact – one-piece design
- milling, counterboring, planing, chamfering
- shells, shaft, ...

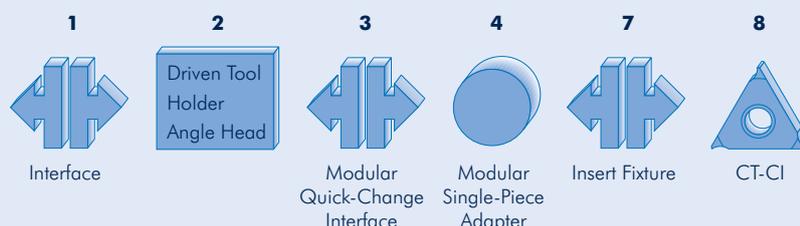
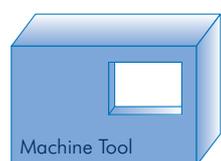
## BlueCompetence – Implemented with mimatic mi



### Old = Industrial Standard



### New = mimatic Innovation



# mi System Solutions for Special Production Assignments

**Driven tool holders with mi quick-change interface must be adapted to the machining task in your dimensioning, and/or take this task into account:**

- as regards the cutting forces and/or torque occurring and
- as regards the precision required » rigidity of the system

It is thus necessary to describe the planned machining processes as exactly as possible, so that the optimal technical and economic suggestion can be worked out. Because then it is ensured that the requirements for precision, efficiency and sustainability are fulfilled.

**Driven Tool Holder - mi**  
Straight Unit

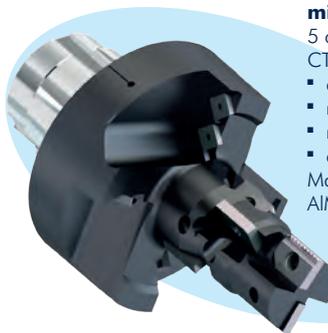


**Driven Tool Holder - mi**  
Angle Unit



**mi - Milling Tool**

- 5 different CT plates
  - chamfering
  - milling threads
  - milling planes
  - counterboring
- Material: AlMgSi1 (DIN 3.2315)



**mi - Cutting Tool**

- jiggering
  - chamfering
- Materials:  
1. 20MnVS6  
2. X15 CrNiSi20 (DIN 1.4828)



**mi - Cutting Tool**

- twist drill
  - jiggering
  - planing
- Material: Al-Si7Mg



**mi - Cutting Tool**

- drilling
- planing
- VHM twist drill
- chamfering



**mi - Milling Tool**

- groove milling
- Material: steel



**mi - Milling Tool**

- groove milling
- Material: steel



**mi - Milling Tool**

- contour milling
- Material: 16MnCrS5



**mi - Counterboring Tool**

- (jiggering)
- preturning
  - finish-turning
  - planing
  - chamfering
- Material: Al-Si7Mg



**mi - Milling Tool**

- groove milling
- Material: steel



**mi - Milling Tool**

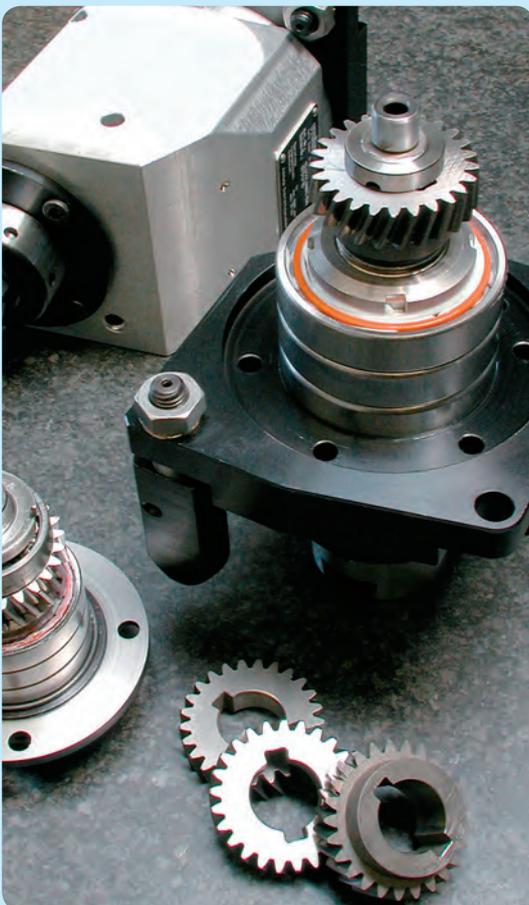
- groove milling
- Material: steel



# Service + Maintenance of Driven Toolholders

**Preventative maintenance and repair of driven tools is an important factor, to**

- 1) limit the tool costs with respect to replacement parts**
- 2) ensure the tool reliability**
- 3) maintain the process performance**



Only high-quality bearings and spindle bearings from German brand manufacturers are used.

Together with high-quality friction-optimized seals, the proper functioning of your driven toolholder is achieved. For this you will get the **mimatic warranty seal**.



# Service + Maintenance of Driven Toolholders

All serviced or repaired driven toolholders are subjected to comprehensive testing on the mimatic test bench.

**Procedure:**

- 1) The driven toolholder is sent to mimatic.
- 2) You will receive a goods receipt (3 working days max.).
- 3) You will receive a maintenance/repair quotation providing details of the condition of the holder, cause of failure, in the case of repair and what is required, in case of maintenance. (8 working days max).
- 4) Most repairs/maintenance can be completed in 10 working days after receipt of customer approval/PO.



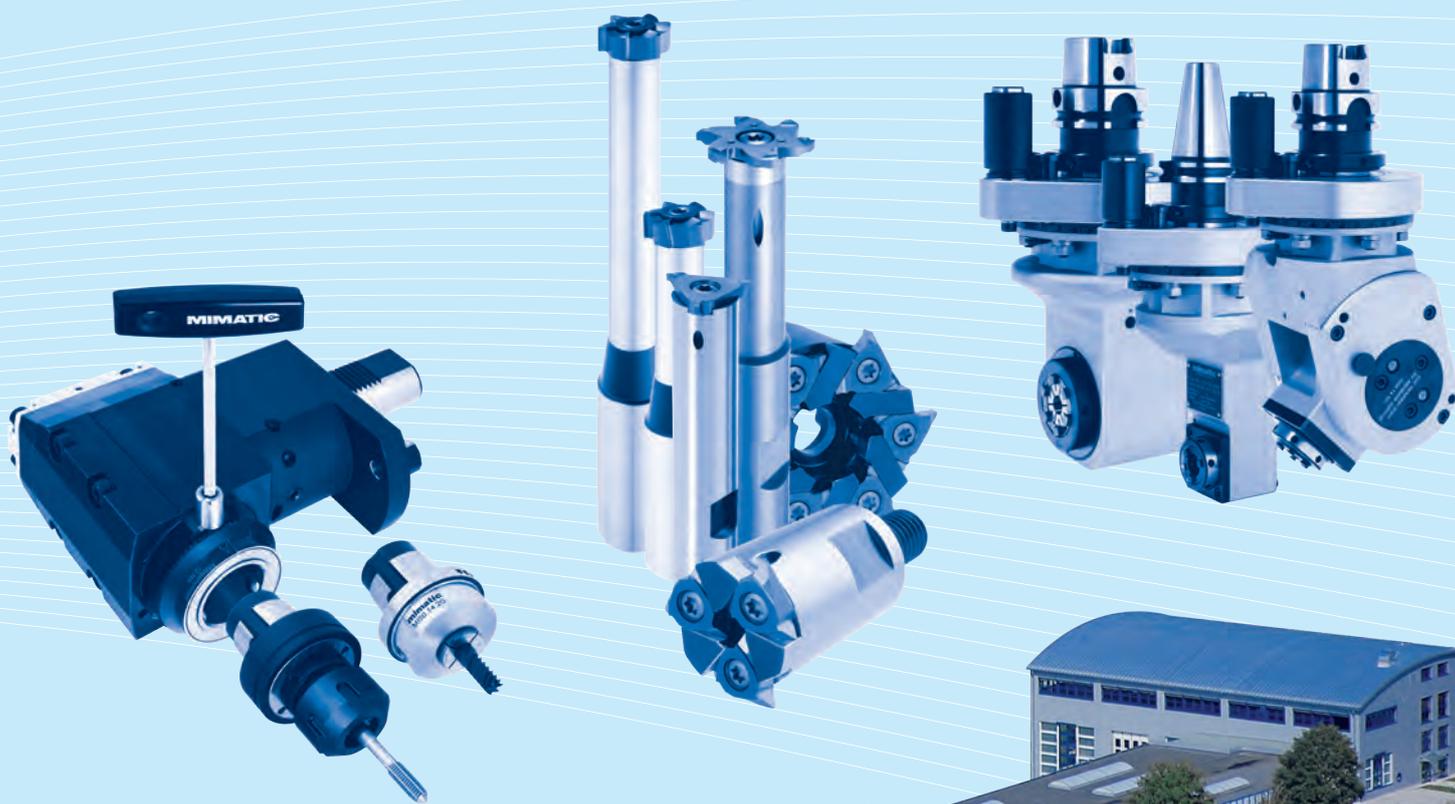
A qualified and specialized mimatic team is available, to maintain and repair your driven tools.





- Circular- and Thread Milling Tools
- Reamers with Polygonal Interface
- Driven Toolholders for CNC Machining Centers
- Driven Toolholders for CNC Turning Machines
- Multi-Spindle Technology
- Modular Quick Change Toolholders mimatic® mi
- Static Toolholders for CNC Turning Machines
- Precision Chucks
- Special Cutting Tools

**mimatic®**  
**Home of**  
**Innovations**



**mimatic®**  
 T o o l S y s t e m s

**BLUECOMPETENCE**  
 Alliance Member  
 Partner der Nachhaltigkeitsinitiative  
 des Maschinen- und Anlagenbaus

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