

**Angle Heads - Monoblock and Modular  
for CNC Machining Centers**

**Monoblock**

Pages 188-241

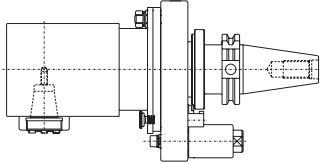
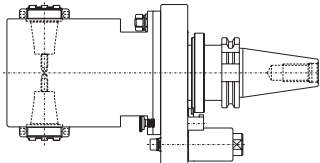
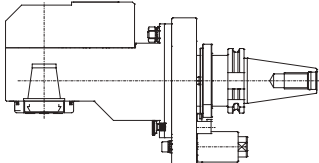
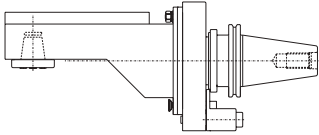
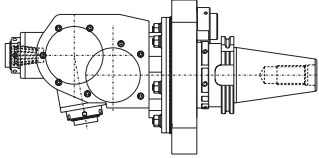
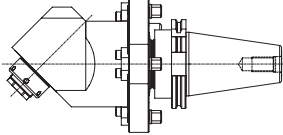


**Modular**

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		DIN 69893 A	SK 50	205
			HKS 63	210
			HSK 100	215
		MAS-BT JIS 6339	BT 40	220
	BT 50	225		
	ANSI-CAT	CAT 40	230	
		CAT 50	235	
<p><b>DW</b></p> <p><b>Double Angle Head 90°</b> Gear Ratio <math>i = 1:1</math> Coolant supply: without / external</p> 	DW	DIN 69871	SK 40	201
		DIN 69893 A	SK 50	206
			HKS 63	211
			HSK 100	216
		MAS-BT JIS 6339	BT 40	221
	BT 50	226		
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<p><b>ZW</b></p> <p><b>Angle Head 90° Offset type</b> Gear Ratio <math>i = 1:1</math> Coolant supply: without / external / internal</p> 	ZW	DIN 69871	SK 40	202
		DIN 69893 A	SK 50	207
			HKS 63	212
			HSK 100	217
		MAS-BT JIS 6339	BT 40	222
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<p><b>ZWS</b></p> <p><b>Angle Head 90° Offset Slim type</b> Gear Ratio <math>i = 1:1</math> Coolant supply: without / external</p> 	ZWS	DIN 69871	SK 40	203
		DIN 69893 A	SK 50	208
			HKS 63	213
			HSK 100	218
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<p><b>WS</b></p> <p><b>Angle Head, adjustable 0-98°</b> Gear Ratio <math>i = 1:1</math> or <math>1:2,25</math> Coolant supply: internal</p> 	WS	DIN 69871	SK 40	204
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<p><b>Angle Head with fixed angle</b></p> 	FW	Available on request.		

## Angle Drilling Heads and Cutter Heads

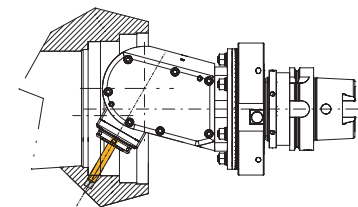
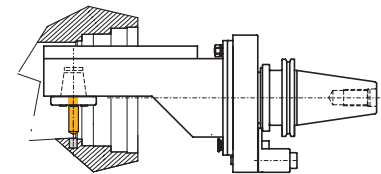
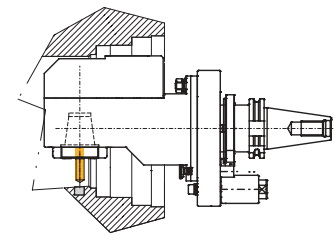
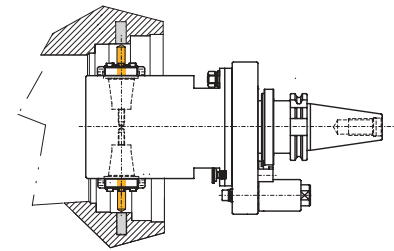
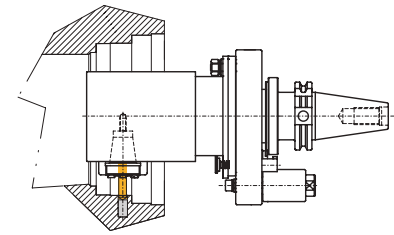
mimatic® has been a reliable partner in project planning and the supply of precision tools worldwide for many years in the field of chip removing production.

In addition to toolholding systems and cutting tools, the company also provides driven tools for both CNC lathes and CNC machining centers to solve customer-specific problems with chip removal.

The company has provided many special purpose solutions for **angle heads and cutter heads** since its foundation in 1974. In doing so, mimatic has always placed special emphasis on **maximum precision, power transmission, operating safety and quality.**

We ensure close cooperation with our customers worldwide, providing advice on all machining problems – even on-site. We realize and implement our solutions on the basis of our **comprehensive standard program or by means of customer-specific special developments and designs.**

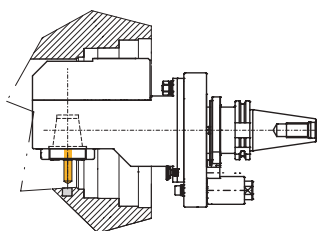
Our new standard program of **angle head tools** provides our customers with the means for complete, integrated machining. It is now no longer necessary to repeatedly relocate tools, which means a considerable reduction in production costs, rationalization and the increase in flexibility over the entire production process.



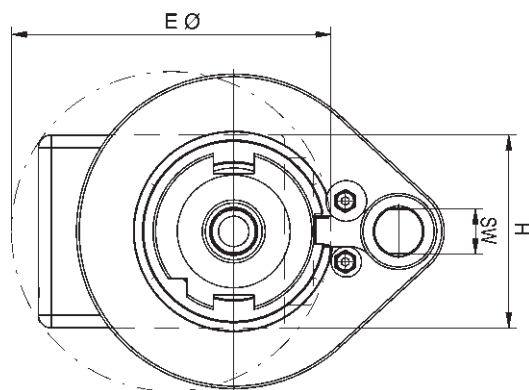
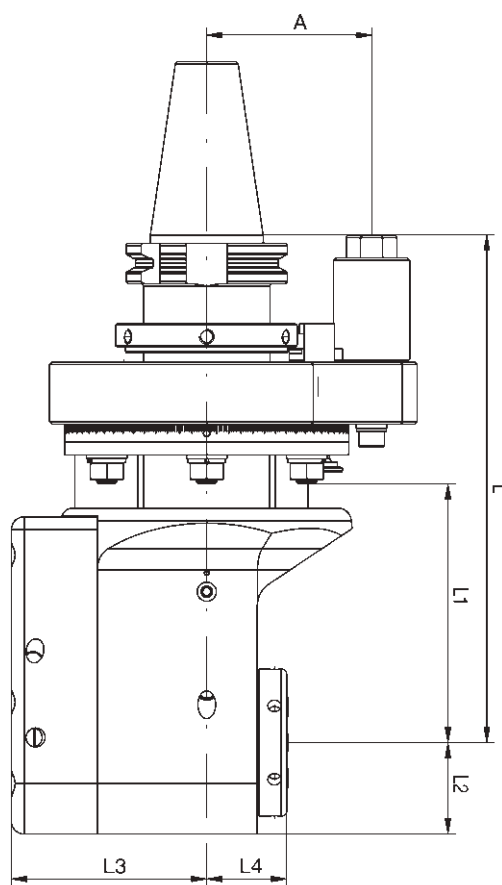
**SK 40**

**ZW**

## Angle Head 90°, Offset Type



Rear offset unit with increased usable tool length and internal coolant is an option.



Size	Torque max.	Rev. max. (r.p.m.)	Gear Ratio	L mm	L1 mm	L2 mm	H mm	A mm	kg	SW
5	30 Nm	8.000	i = 1:1	180	80	28,5	57	65	6,5	18
7	70 Nm	6.000	i = 1:1	198	100	38,0	76	65	8,5	18

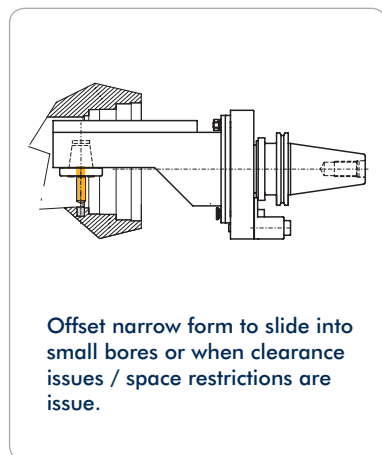
Size	Toolholder	Clearance dia. E mm		L3 mm		L4 mm		Order No.		
		without coolant	with coolant	without coolant	with coolant	without coolant	with coolant	without coolant	external coolant	internal coolant
5	ER 25	103	103	57,0	57,0	35,8	41,6	135389	162855	168670
5	mi 40	130	130	57,0	57,0	50,3	50,3	105439	162879	162880
7	ER 32	128	128	77,5	77,5	32,2	38,0	105440	162868	105478
7	mi 50	150	150	77,5	77,5	55,0	55,0	105429	162894	162895



**SK 40**

**ZWS**

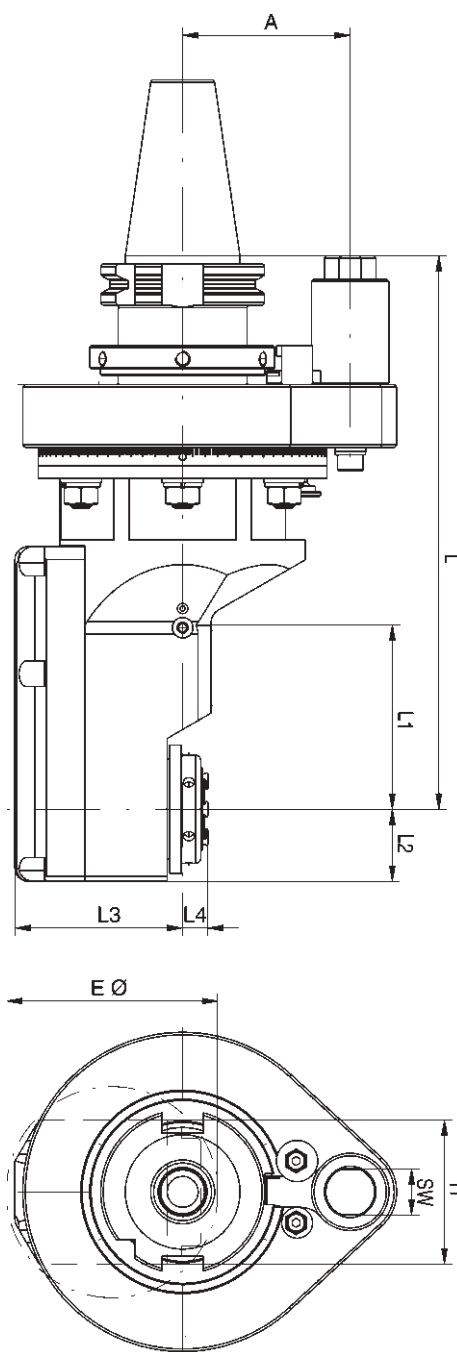
## Angle Head 90°, Offset Slim Type



Offset narrow form to slide into small bores or when clearance issues / space restrictions are issue.



**Attention!**  
Reversal of rotation direction



Size	Torque max.	Rev. max. (r.p.m.)	Gear Ratio	L mm	L1 mm	L2 mm	H mm	A mm	kg	SW
0	6 Nm	12.000	i = 1:1,67	213	38	20	36	65	7,0	18
3	15 Nm	10.000	i = 1:1	225	80	24	48	65	6,0	18
5	30 Nm	8.000	i = 1:1	215	76	28	56	65	6,5	18

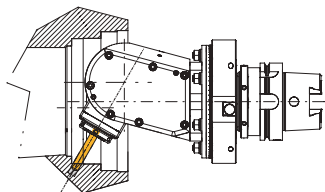
Size	Toolholder	Clearance dia. E mm		L3 mm		L4 mm		Order No.		
		without coolant	with coolant	without coolant	with coolant	without coolant	with coolant	without coolant	external coolant	internal coolant
0	ER 11	50		49,0		-8,0		105631		
3	ER 20	75		54,5		11,2		105665		
3	mi 32	100		54,5		26,0		173535		
5	ER 25	82	82	65,0	65	10,0	10,0	135615	162922	
5	mi 40	125	125	65,0	65	23,5	23,5	135609	162934	

**SK 40**

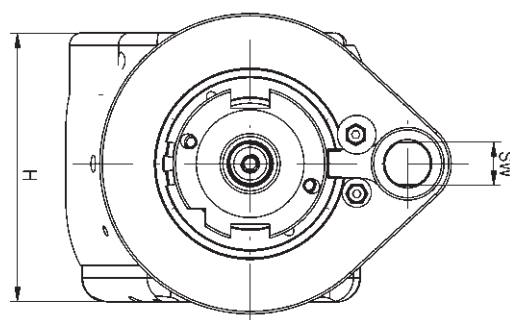
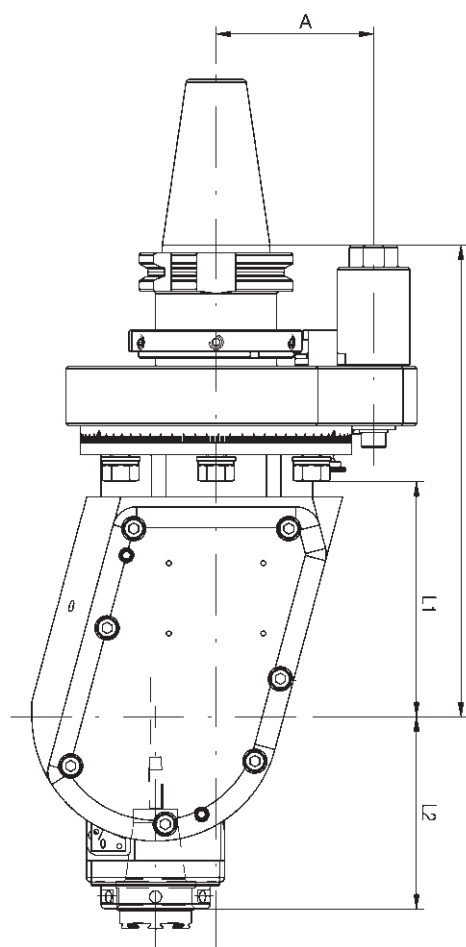
**WS**

Compatible in accordance with **BLUECOMPETENCE** » mimatic mi » PolyMILL » TriMILL » PolyREAM

## Angle Head, Adjustable 0-98°



Adjustable angle unit to do boring and milling applications at any angle.



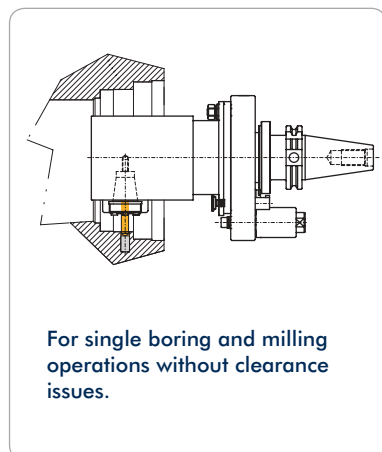
Size	Torque max.	Rev. max. (r.p.m.)	Gear Ratio	L mm	L1 mm	H mm	A mm	kg	SW
3	15 Nm	8.000 / 15.000	i = 1:1 / 1:2,25	189	91	96	65	8,0	18
5	30 Nm	7.000 / 13.500	i = 1:1 / 1:2,25	195	96	111	65	9,6	18

Size	Toolholder	L2 mm	L4 mm	Order No. (i=1:1)		Order No. (i=1:2,25)	
				without coolant	internal coolant	without coolant	internal coolant
3	ER 20	75,0	20	162793	105825	156560	105823
3	mi 32	82,9	20	156561	105832	156562	156563
5	ER 25	84,0	25	174413	105833	156580	105826
5	mi 40	97,0	25	162952	169975	162953	162954

**SK 50**

**SW**

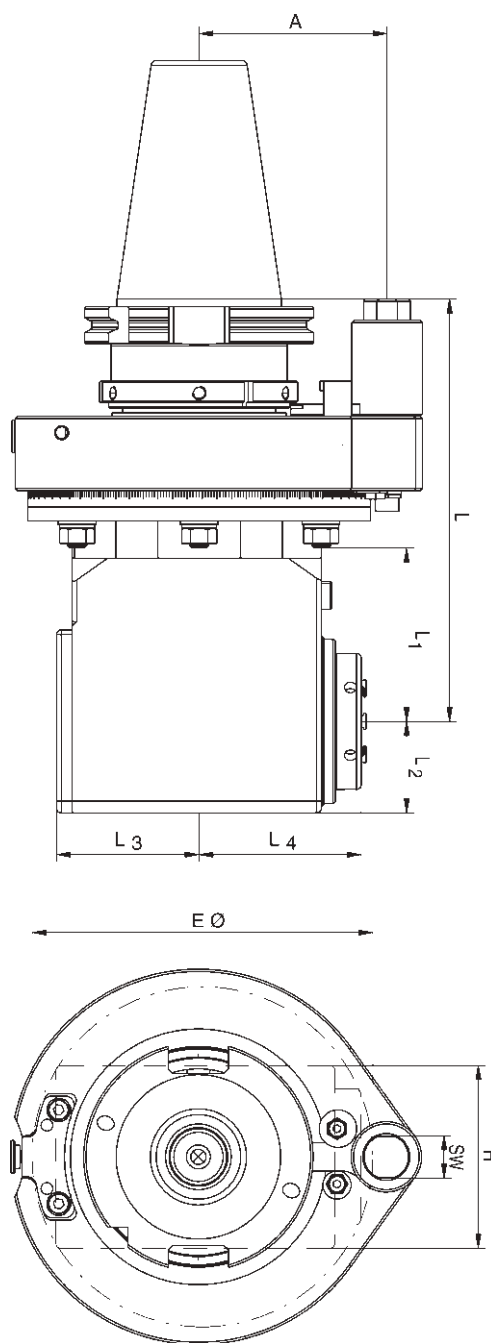
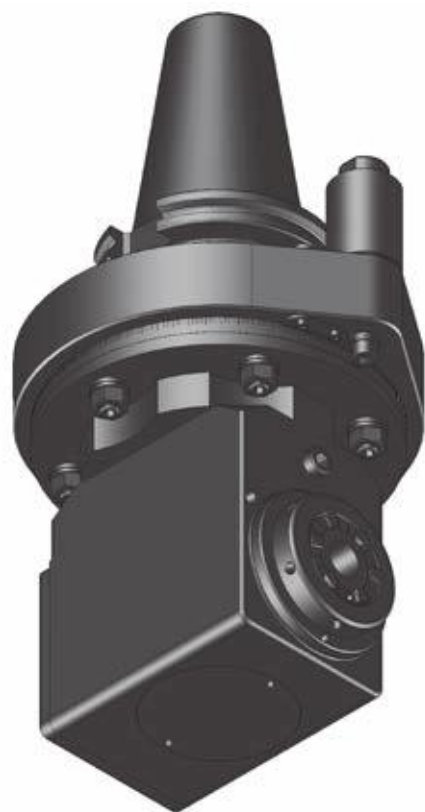
## Angle Head 90°



For single boring and milling operations without clearance issues.



**Attention!**  
Reversal of rotation direction



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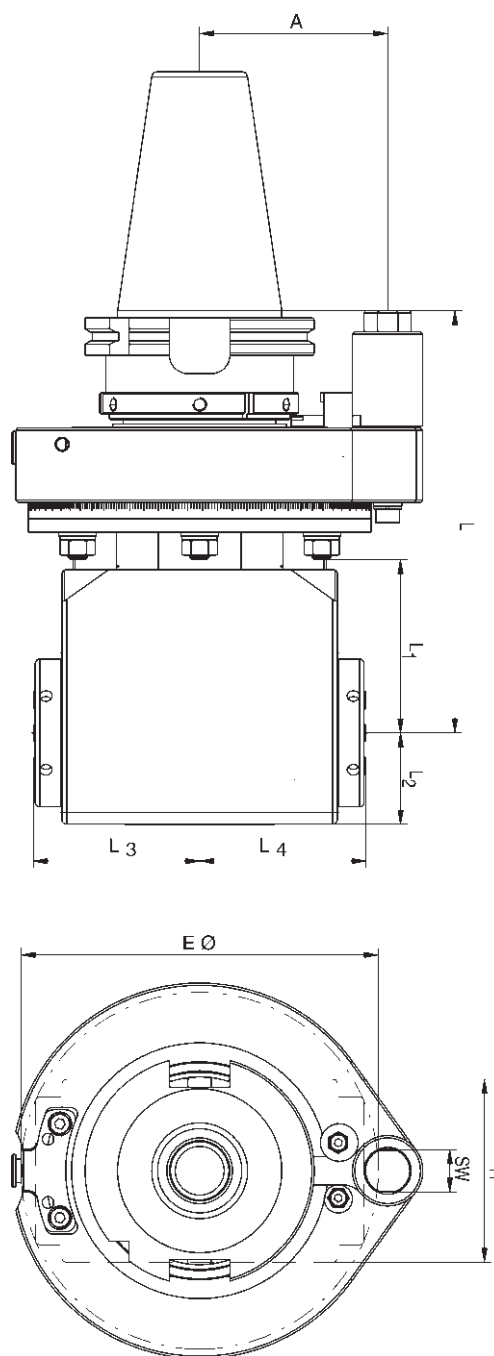
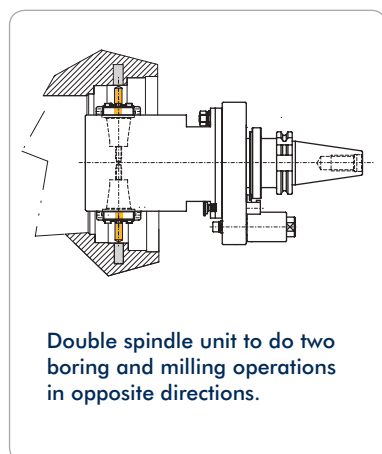
Size	Torque max.	Rev. max. (r.p.m.)	Gear Ratio	L mm	L1 mm	L2 mm	H mm	A mm	kg	SW
5	30 Nm	8.000	i = 1:1	180	75	34	68	80	10,5	18
7	70 Nm	6.500	i = 1:1	180	75	39	78	80	12,0	18
9	150 Nm	5.000	i = 1:1	215	105	52	104	80	18,0	18

Size	Toolholder	Clearance dia. E mm		L3 mm		L4 mm		Order No.		
		without coolant	with coolant	without coolant	with coolant	without coolant	with coolant	without coolant	external coolant	internal coolant
5	ER 25	110	120	41,5	52	57,5	63,0	135458	135446	135447
5	mi 40	138	146	41,5	52	72,0	72,0	167870	162806	105500
7	ER 32	145	155	61,0	75	70,0	75,0	135476	162778	166720
7	mi 50	172	178	61,0	75	83,0	83,0	105519	162795	105522
9	ER 40	195	195	81,0	81	92,0	96,0	105551	162780	169469
9	mi 63	224	224	81,0	81	111,5	111,5	173083	162784	166543

**SK 50**

**DW**

## Double Angle Head 90°



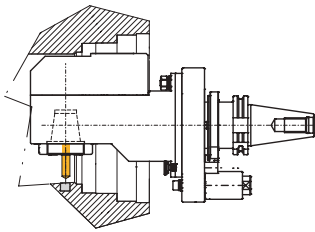
Size	Torque max.	Rev. max. (r.p.m.)	Gear Ratio	L mm	L1 mm	L2 mm	H mm	A mm	kg	SW
5	30 Nm	8.000	i = 1:1	180	70	34	68	80	11,5	18
7	70 Nm	6.500	i = 1:1	180	70	39	78	80	13,5	18
9	150 Nm	4.000	i = 1:1	215	109	58	108	80	20,0	18

Size	Toolholder	Clearance dia. E mm		L3 mm		L4 mm		Order No.		
		without coolant	with coolant	without coolant	with coolant	without coolant	with coolant	without coolant	external coolant	internal coolant
5	2 x ER 25	125	125	62,0	62,0	62,0	62,0	135678	162825	
5	2 x mi 32	200	200	76,5	76,5	76,5	76,5	173511	162842	
7	2 x ER 32	152	152	71,2	71,2	71,2	71,2	135734	167532	
7	2 x mi 40	220	220	88,0	88,0	88,0	88,0	167238	105776	
9	2 x ER 40	210	210	103,0	103,0	103,0	103,0	105784	162834	
9	2 x mi 50	250	250	116,0	116,0	116,0	116,0	167654	162851	

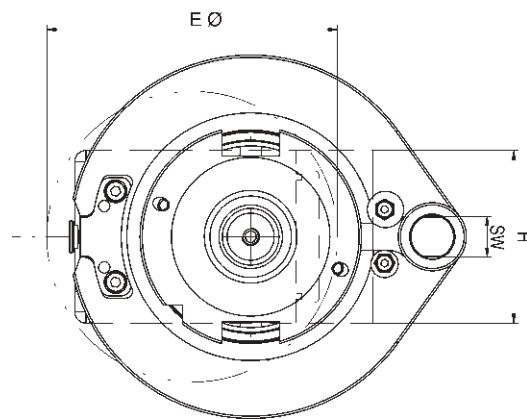
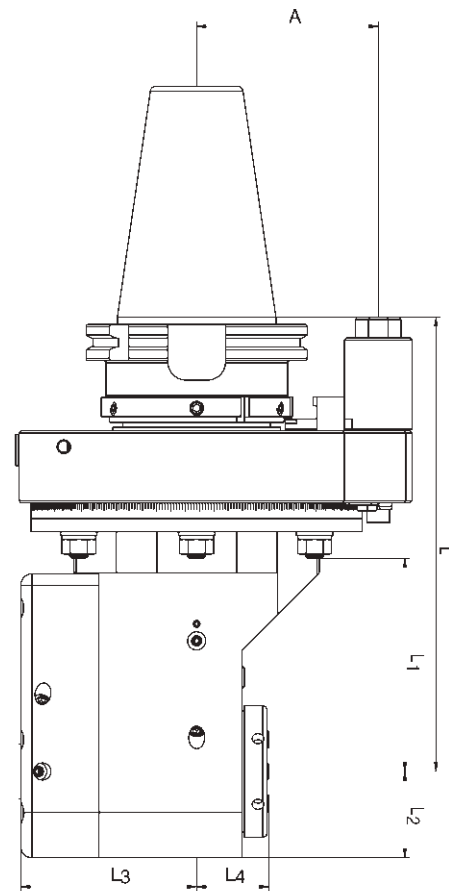
**SK 50**

**ZW**

## Angle Head 90°, Offset Type



Rear offset unit with increased usable tool length and internal coolant is an option.



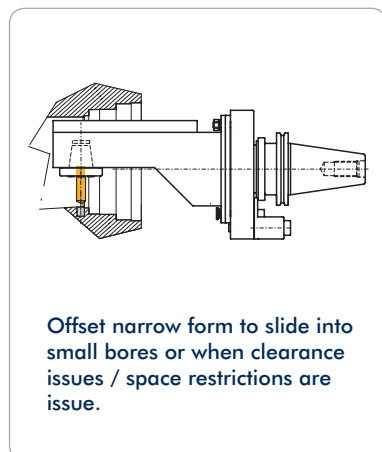
Size	Torque max.	Rev. max. (r.p.m.)	Gear Ratio	L mm	L1 mm	L2 mm	H mm	A mm	kg	SW
5	30 Nm	8.000	i = 1:1	185	79	28,5	57	80	11,5	18
7	70 Nm	6.000	i = 1:1	200	94	38,0	76	80	14,0	18
9	150 Nm	5.000	i = 1:1	260	152	52,0	104	80	19,0	18

Size	Toolholder	Clearance dia. E mm		L3 mm		L4 mm		Order No.		
		without coolant	with coolant	without coolant	with coolant	without coolant	with coolant	without coolant	external coolant	internal coolant
5	ER 25	103	103	58,0	58,0	35,8	41,6	105416	162861	162862
5	mi 40	133	133	58,0	58,0	50,3	50,3	173523	162886	162887
7	ER 32	128	128	77,5	77,5	32,2	38,0	105430	162871	105479
7	mi 50	152	152	77,5	77,5	55,0	55,0	169908	162900	105475
9	ER 40	140	140	89,0	89,0	31,0	34,8	105482	162874	162876
9	mi 63	165	165	89,0	89,0	48,3	48,3	105468	162904	162905

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**SK 50** **ZWS**

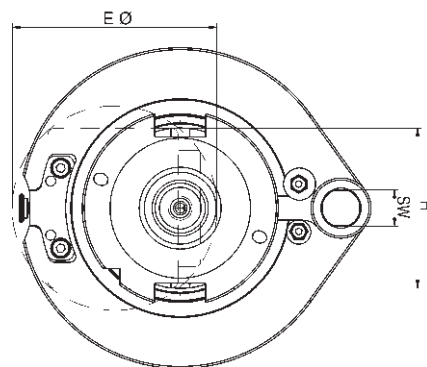
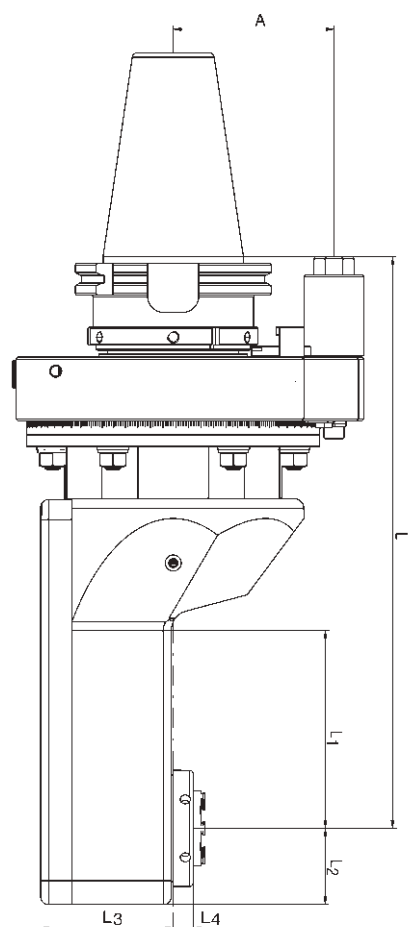
## Angle Head 90°, Offset Slim Type



Offset narrow form to slide into small bores or when clearance issues / space restrictions are issue.



**Attention!**  
Reversal of rotation direction



Size	Torque max.	Rev. max. (r.p.m.)	Gear Ratio	L mm	L1 mm	L2 mm	H mm	A mm	kg	SW
0	6 Nm	12.000	i = 1:1,67	227,5	38	20	36	80	11,0	18
5	30 Nm	8.000	i = 1:1	215,0	76	28	56	80	12,5	18
7	70 Nm	6.000	i = 1:1	285,0	100	38	80	80	13,5	18

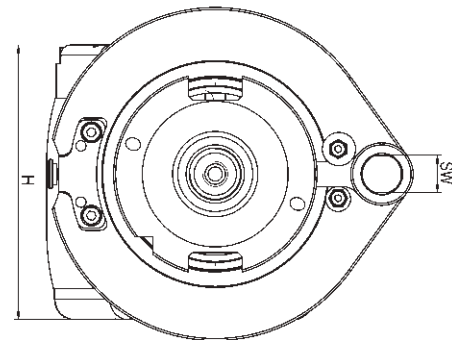
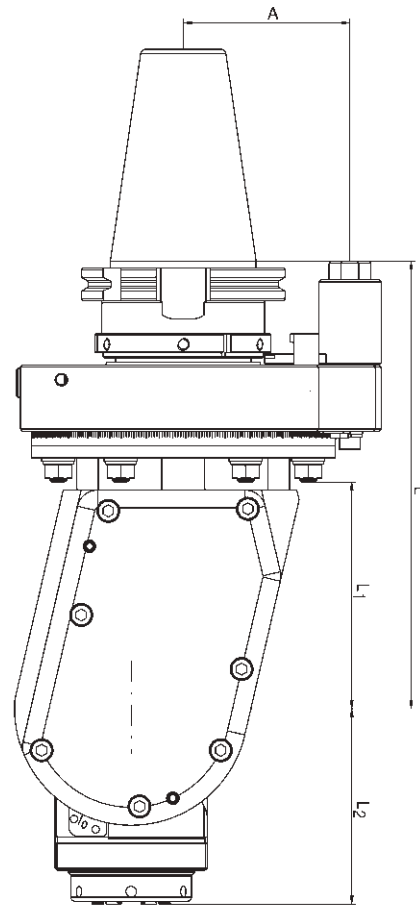
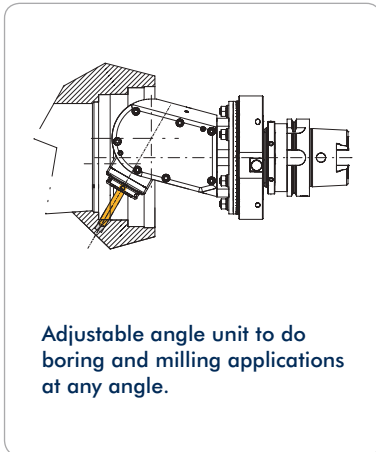
Size	Toolholder	Clearance dia. E mm		L3 mm		L4 mm		Order No.		
		without coolant	with coolant	without coolant	with coolant	without coolant	with coolant	without coolant	external coolant	internal coolant
0	ER 11	50		49		-8,0		105650		
5	ER 25	82	82	65	65	10,0	10,0	105682	162926	
5	mi 40	125	125	65	65	23,5	23,5	173539	162938	
7	ER 32	102	102	66	66	13,0	13,0	135643	105684	
7	mi 50	135	135	66	66	29,0	29,0	167741	162942	



**SK 50**

**WS**

## Angle Head, Adjustable 0-98°



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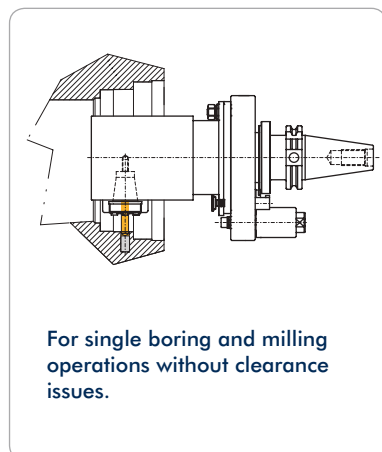
Size	Torque max.	Rev. max. (r.p.m.)	Gear Ratio	L mm	L1 mm	H mm	A mm	kg	SW
5	30 Nm	7.000 / 13.500	i = 1:1 / 1:2,25	195	96	111	80	14,0	18
7	70 Nm	6.000	i = 1:1	215	108	132	80	16,0	18

Size	Toolholder	L2 mm	L4 mm	Order No. (i=1:1)		Order No. (i=1:2,25)	
				without coolant	internal coolant	without coolant	internal coolant
5	ER 25	84	25	162965	135816	135823	162966
5	mi 40	97	25	162967	167021	162968	162969
7	ER 32	95	25	162982	105864		
7	mi 50	108	25	162989	166981		

**HSK 63**

**SW**

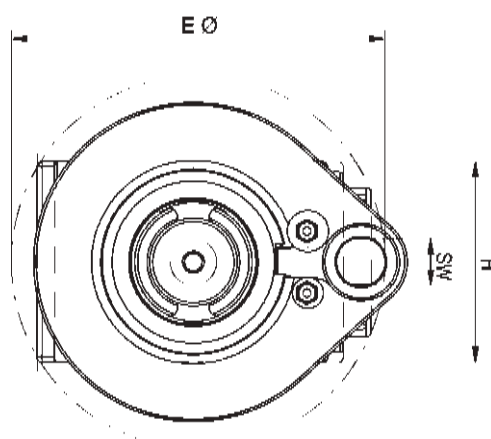
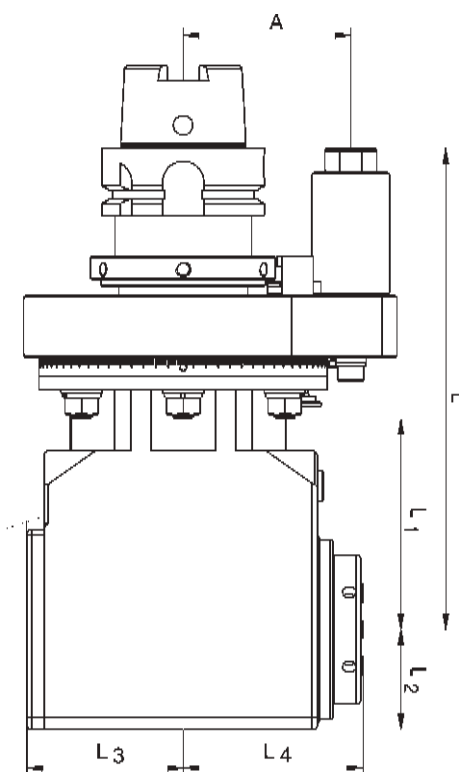
## Angle Head 90°



For single boring and milling operations without clearance issues.



**Attention!**  
Reversal of rotation direction



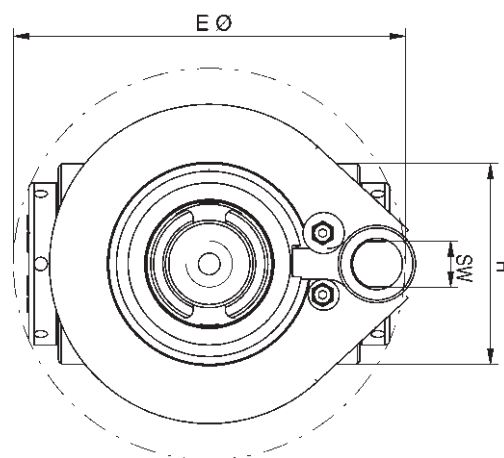
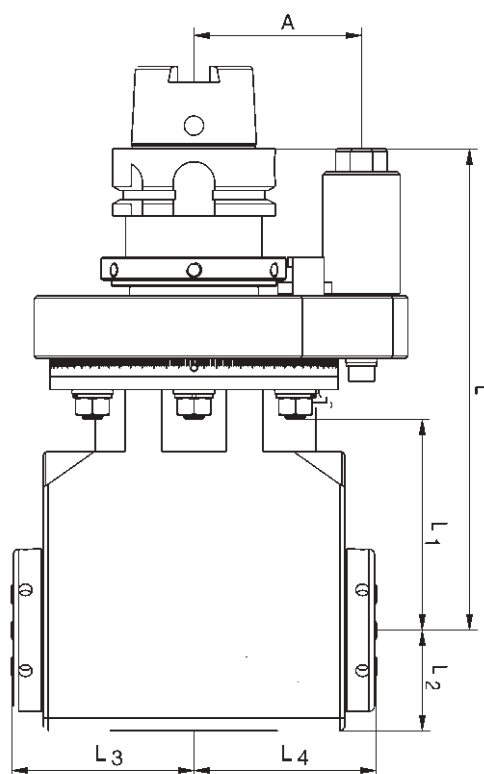
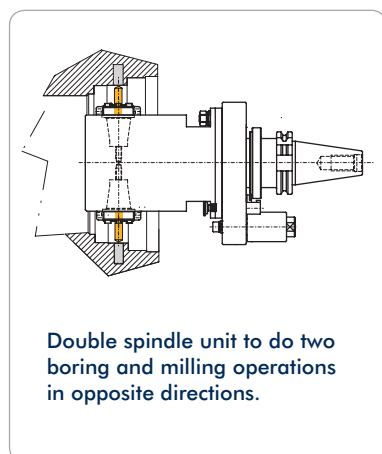
Size	Torque max.	Rev. max. (r.p.m.)	Gear Ratio	L mm	L1 mm	L2 mm	H mm	A mm	kg	SW
1	12 Nm	10.000	i = 1:1	187	80	22	44	65	6,0	18
5	30 Nm	8.000	i = 1:1	187	80	34	68	65	6,5	18
7	70 Nm	6.500	i = 1:1	187	80	39	78	65	8,0	18

Size	Toolholder	Clearance dia. E mm		L3 mm		L4 mm		Order No.		
		without coolant	with coolant	without coolant	with coolant	without coolant	with coolant	without coolant	external coolant	internal coolant
1	ER 16	91	96	29,0	44	45,0	50	135456	162792	135452
5	ER 25	110	120	41,5	52	57,5	63	135433	105491	105501
5	mi 40	138	146	41,5	52	72,0	72	169846	162804	162805
7	ER 32	145	155	61,0	75	70,0	75	135489	105528	105533
7	mi 50	172	178	61,0	75	83,0	83	105504	162794	105540

**HSK 63**

**DW**

## Double Angle Head 90°



Size	Torque max.	Rev. max. (r.p.m.)	Gear Ratio	L mm	L1 mm	L2 mm	H mm	A mm	kg	SW
5	30 Nm	8.000	i = 1:1	187	80	39	78	65	7,5	18
7	70 Nm	6.500	i = 1:1	187	80	39	78	65	8,5	18

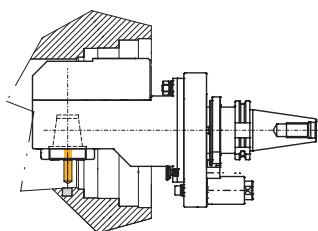
Size	Toolholder	Clearance dia. E mm		L3 mm		L4 mm		Order No.		
		without coolant	with coolant	without coolant	with coolant	without coolant	with coolant	without coolant	external coolant	internal coolant
5	2 x ER 25	125	125	62,0	62,0	62,0	62,0	135706	162824	
5	2 x mi 32	200	200	76,5	76,5	76,5	76,5	173510	162841	
7	2 x ER 32	152	152	71,2	71,2	71,2	71,2	135747	162830	
7	2 x mi 40	220	220	88,0	88,0	88,0	88,0	170454	176644	

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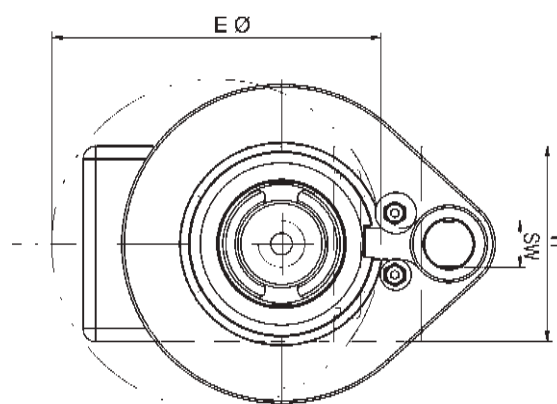
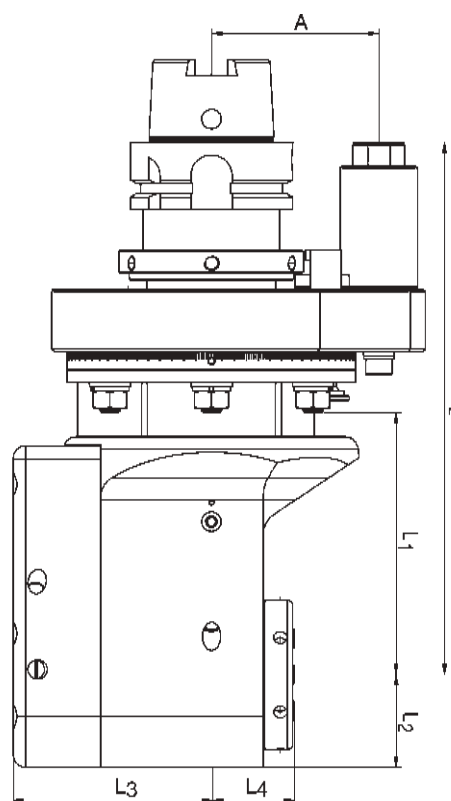
**HSK 63**

**ZW**

## Angle Head 90°, Offset Type



Rear offset unit with increased usable tool length and internal coolant is an option.



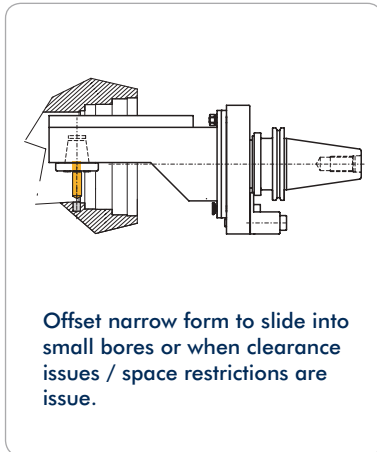
Size	Torque max.	Rev. max. (r.p.m.)	Gear Ratio	L mm	L1 mm	L2 mm	H mm	A mm	kg	SW
5	30 Nm	8.000	i = 1:1	187	80	28,5	57	65	6,5	18
7	70 Nm	6.000	i = 1:1	205	100	38,0	76	65	8,5	18

Size	Toolholder	Clearance dia. E mm		L3 mm		L4 mm		Order No.		
		without coolant	with coolant	without coolant	with coolant	without coolant	with coolant	without coolant	external coolant	internal coolant
5	ER 25	103	103	57,0	57,0	35,8	41,6	135405	162860	167996
5	mi 40	130	130	57,0	57,0	50,3	50,3	105459	162884	162885
7	ER 32	128	128	77,5	77,5	34,0	38,0	135416	174283	135398
7	mi 50	150	150	77,5	77,5	55,0	55,0	173528	162899	167022

**HSK 63**

**ZWS**

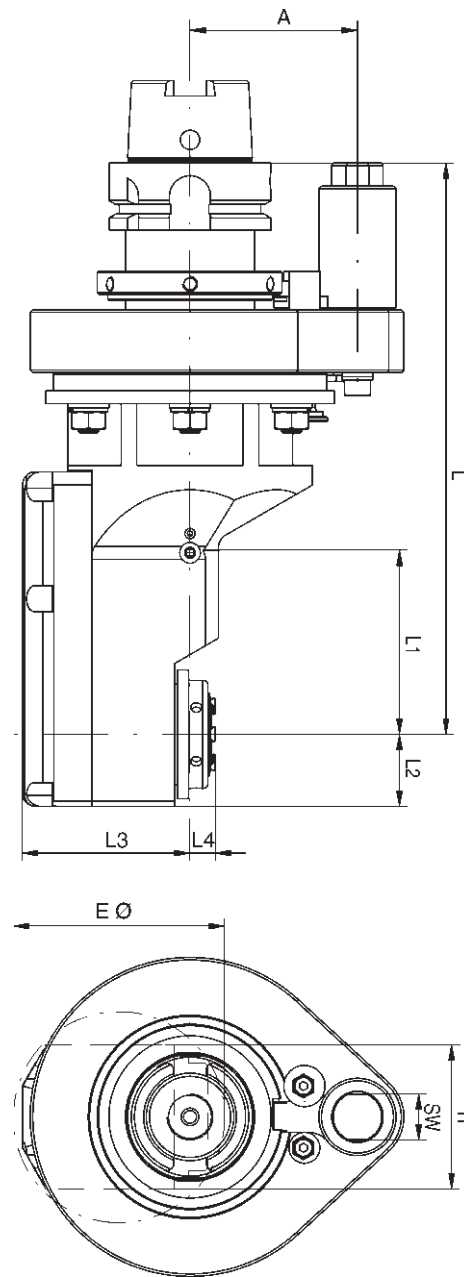
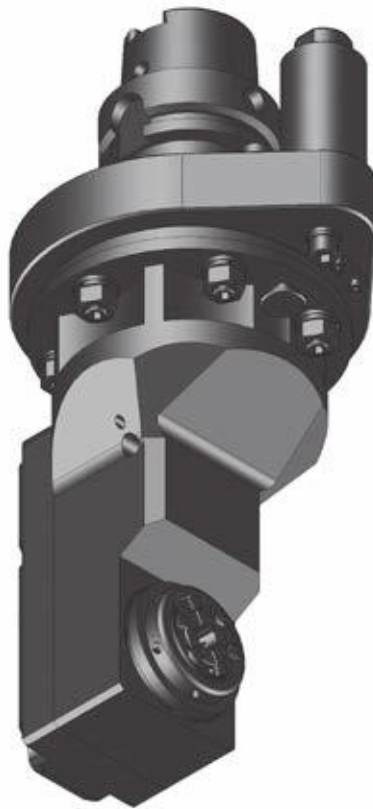
## Angle Head 90°, Offset Slim Type



Offset narrow form to slide into small bores or when clearance issues / space restrictions are issue.



**Attention!**  
Reversal of rotation direction



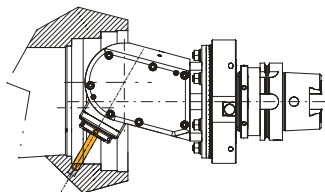
Size	Torque max.	Rev. max. (r.p.m.)	Gear Ratio	L mm	L1 mm	L2 mm	H mm	A mm	kg	SW
0	6 Nm	12.000	i = 1:1,67	220	38	20	36	65	7,0	18
3	15 Nm	10.000	i = 1:1	232	80	24	48	65	6,0	18
5	30 Nm	8.000	i = 1:1	222	76	28	56	65	6,5	18

Size	Toolholder	Clearance dia. E mm		L3 mm		L4 mm		Order No.		
		without coolant	with coolant	without coolant	with coolant	without coolant	with coolant	without coolant	external coolant	internal coolant
0	ER 11	50		49,0		-8,0		105670		
3	ER 20	75		54,5		11,2		135633		
3	mi 32	100		54,5		26,0		105671		
5	ER 25	82	82	65,0	65	10,0	10,0	105674	162925	
5	mi 40	125	125	65,0	65	23,5	23,5	105686	162937	

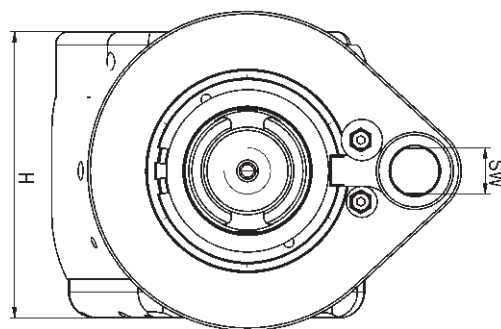
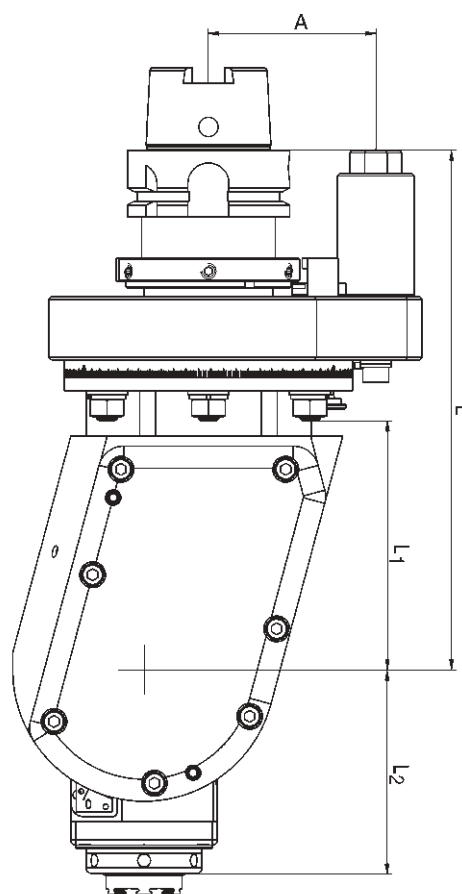
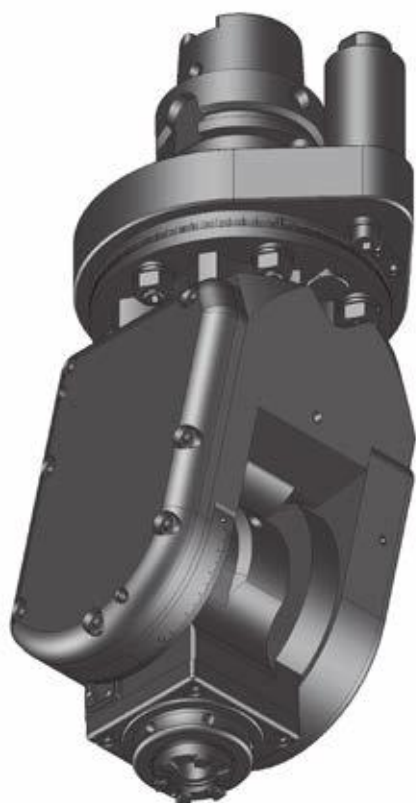
**HSK 63**

**WS**

## Angle Head, Adjustable 0-98°



Adjustable angle unit to do boring and milling applications at any angle.



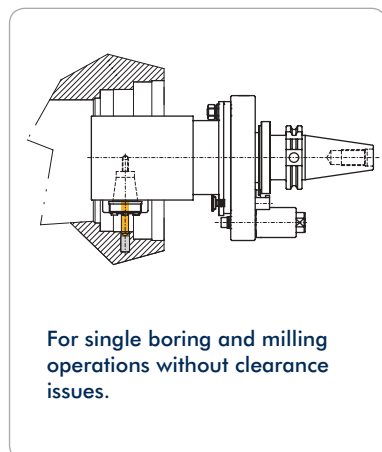
Size	Torque max.	Rev. max. (r.p.m.)	Gear Ratio	L mm	L1 mm	H mm	A mm	kg	SW
3	15 Nm	8.000 / 15.000	i = 1:1 / 1:2,25	196	91	96	65	8,0	18
5	30 Nm	7.000 / 13.500	i = 1:1 / 1:2,25	202	96	111	65	9,6	18

Size	Toolholder	L2 mm	L4 mm	Order No. (i=1:1)		Order No. (i=1:2,25)	
				without coolant	internal coolant	without coolant	internal coolant
3	ER 20	75,0	20	162945	105840	156558	156559
3	mi 32	82,9	20	156577	169142	156578	156579
5	ER 25	84,0	25	162961	135824	162962	135832
5	mi 40	97,0	25	162963	105853	162964	105858

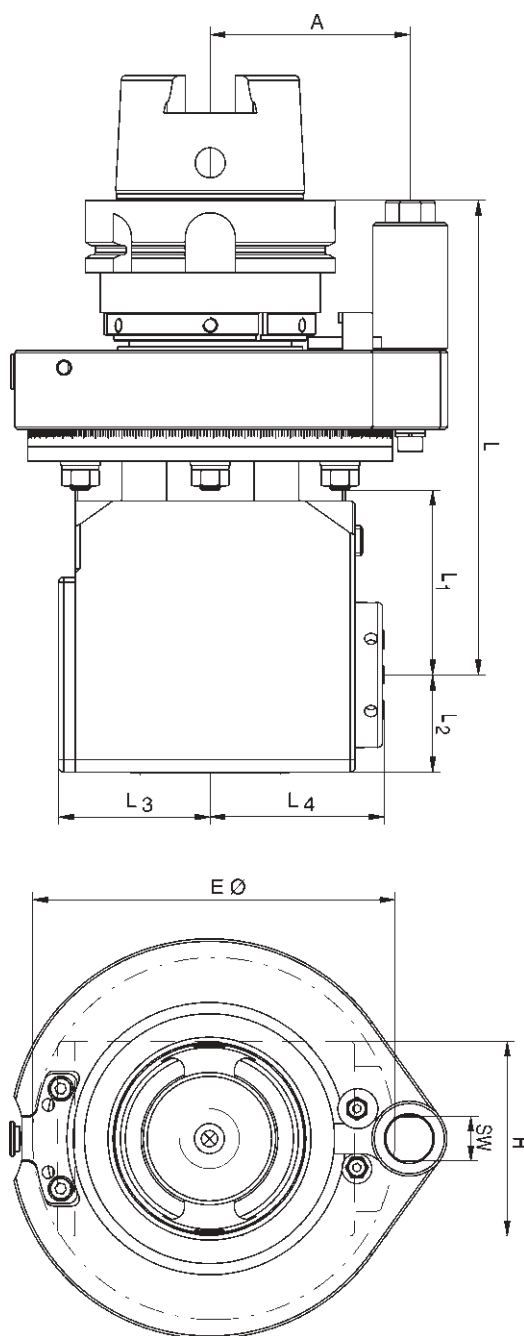


**HSK 100 SW**

## Angle Head 90°



**Attention!**  
Reversal of rotation direction



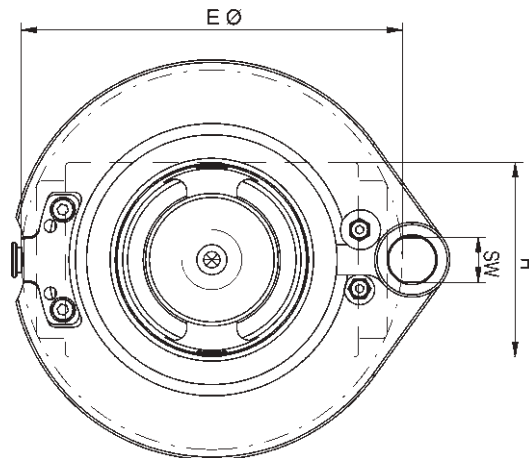
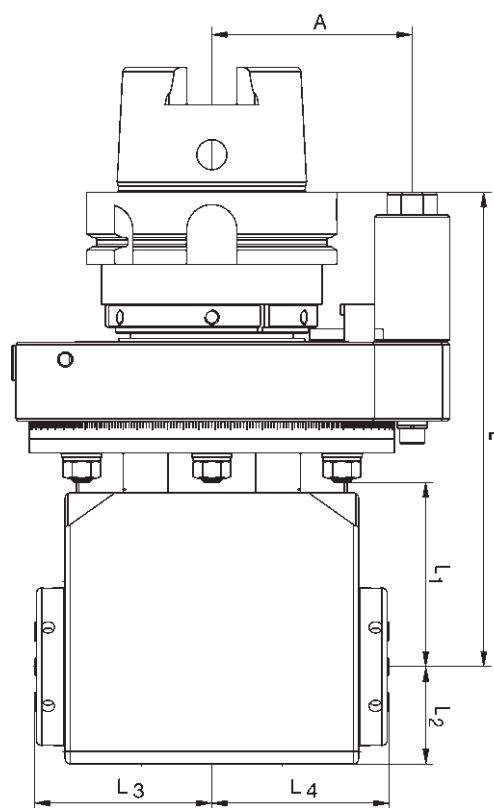
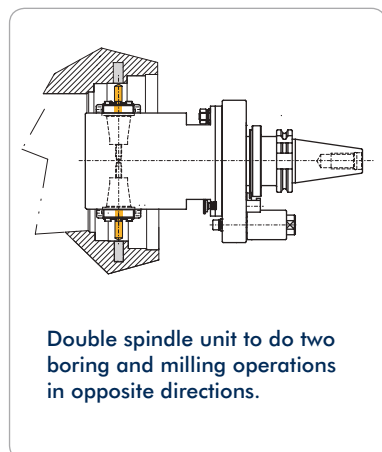
Size	Torque max.	Rev. max. (r.p.m.)	Gear Ratio	L mm	L1 mm	L2 mm	H mm	A mm	kg	SW
5	30 Nm	8.000	i = 1:1	190	75	34	68	80	10,5	18
7	70 Nm	6.500	i = 1:1	190	75	39	78	80	12,0	18
9	150 Nm	5.000	i = 1:1	225	109	52	104	80	18,0	18

Size	Toolholder	Clearance dia. E mm		L3 mm		L4 mm		Order No.		
		without coolant	with coolant	without coolant	with coolant	without coolant	with coolant	without coolant	external coolant	internal coolant
5	ER 25	110	120	41,5	52	57,5	63,0	105499	162774	135462
5	mi 40	138	146	41,5	52	72,0	72,0	172644	162811	162812
7	ER 32	145	155	61,0	75	70,0	75,0	105515	169103	105506
7	mi 50	172	178	61,0	75	83,0	83,0	167699	176169	162798
9	ER 40	195	195	81,0	81	92,0	96,0	105557	169104	105544
9	mi 63	224	224	81,0	81	111,5	111,5	173506	162788	162789

**HSK 100**

**DW**

## Double Angle Head 90°

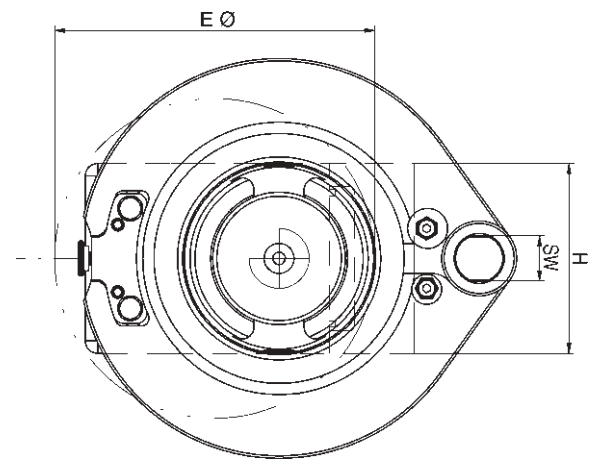
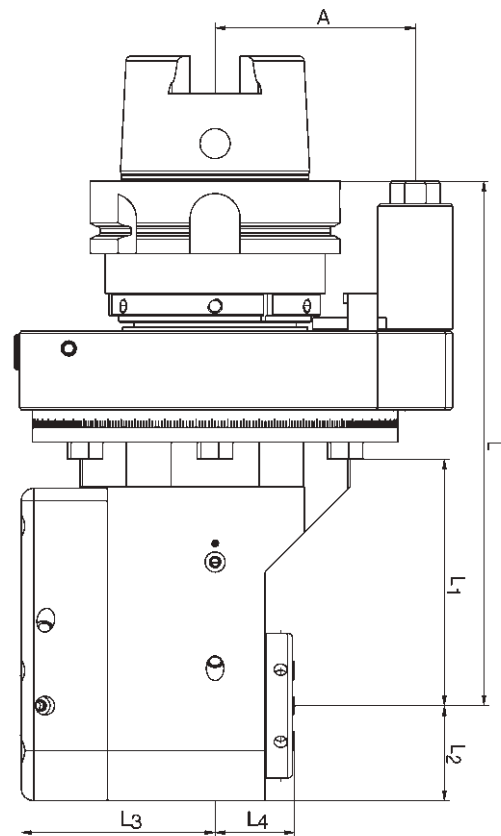
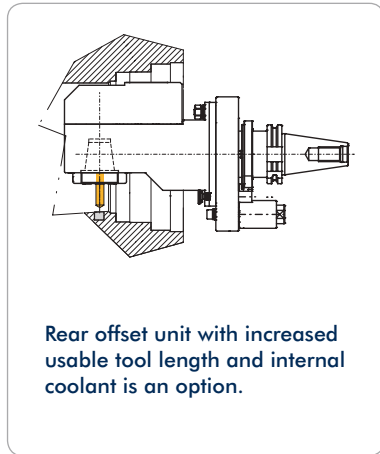


Size	Torque max.	Rev. max. (r.p.m.)	Gear Ratio	L mm	L1 mm	L2 mm	H mm	A mm	kg	SW
5	30 Nm	8.000	i = 1:1	190	70	34	68	80	11,5	18
7	70 Nm	6.500	i = 1:1	190	70	39	78	80	13,5	18
9	150 Nm	4.000	i = 1:1	225	109	58	108	80	20,0	18

Size	Toolholder	Clearance dia. E mm		L3 mm		L4 mm		Order No.		
		without coolant	with coolant	without coolant	with coolant	without coolant	with coolant	without coolant	external coolant	internal coolant
5	2 x ER 25	125	125	62,0	62,0	62,0	62,0	135711	162827	
5	2 x mi 32	200	200	76,5	76,5	76,5	76,5	173514	162845	
7	2 x ER 32	152	152	71,2	71,2	71,2	71,2	135749	162833	
7	2 x mi 40	220	220	88,0	88,0	88,0	88,0	167700	162850	
9	2 x ER 40	210	210	103,0	103,0	103,0	103,0	105790	162837	
9	2 x mi 50	250	250	116,0	116,0	116,0	116,0	167705	162854	

**HSK 100** **ZW**

**Angle Head 90°, Offset Type**



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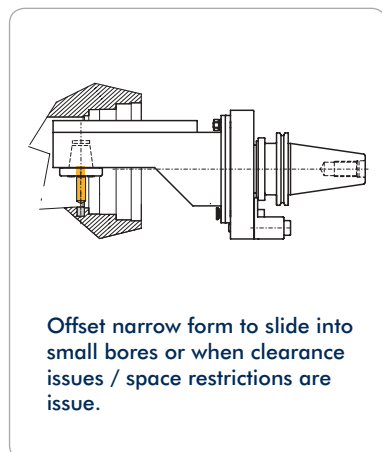
Size	Torque max.	Rev. max. (r.p.m.)	Gear Ratio	L mm	L1 mm	L2 mm	H mm	A mm	kg	SW
5	30 Nm	8.000	i = 1:1	195	79	28,5	57	80	11,5	18
7	70 Nm	6.500	i = 1:1	210	94	38,0	76	80	14,0	18
9	150 Nm	5.000	i = 1:1	270	152	52,0	104	80	19,0	18

Size	Toolholder	Clearance dia. E mm		L3 mm		L4 mm		Order No.		
		without coolant	with coolant	without coolant	with coolant	without coolant	with coolant	without coolant	external coolant	internal coolant
5	ER 25	103	103	58,0	58,0	35,8	41,6	105466	162867	168564
5	mi 40	133	133	58,0	58,0	50,3	50,3	173522	162892	162893
7	ER 32	128	128	77,5	77,5	32,2	38,0	105431	162873	166868
7	mi 50	152	152	77,5	77,5	55,0	55,0	173529	162903	105469
9	ER 40	140	140	89,0	89,0	31,0	34,8	135375	105471	135399
9	mi 63	165	165	89,0	89,0	48,3	48,3	173534	162910	168369

**HSK 100**

**ZWS**

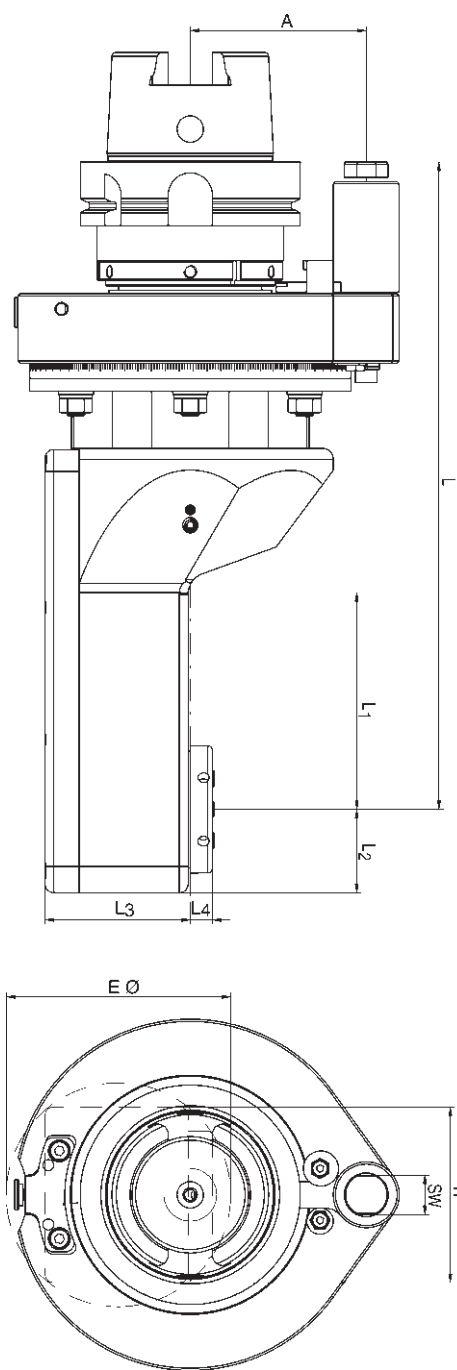
## Angle Head 90°, Offset Slim Type



Offset narrow form to slide into small bores or when clearance issues / space restrictions are issue.



**Attention!**  
Reversal of rotation direction

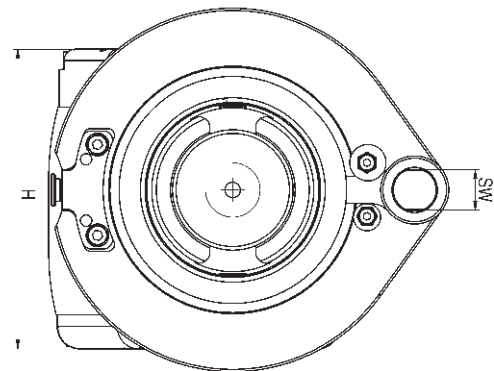
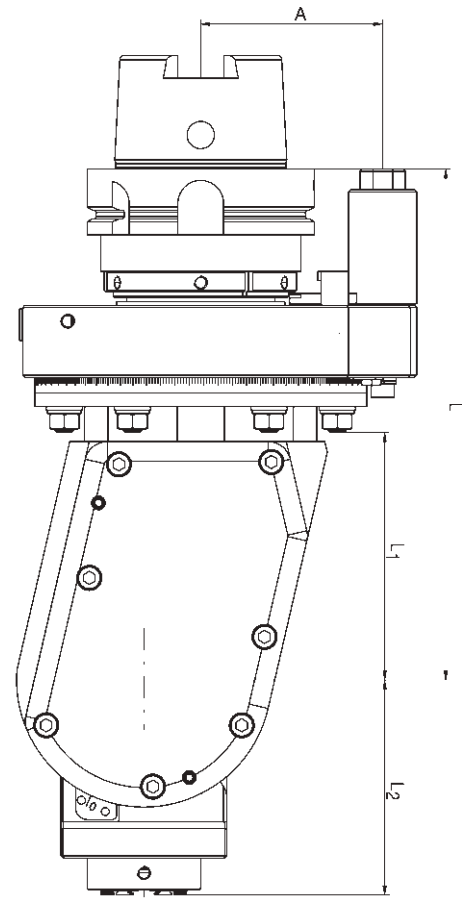
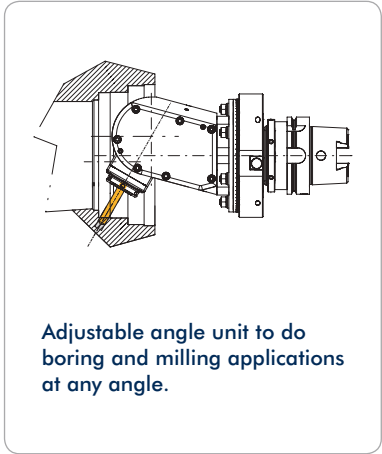


Size	Torque max.	Rev. max. (r.p.m.)	Gear Ratio	L mm	L1 mm	L2 mm	H mm	A mm	kg	SW
0	6 Nm	12.000	i = 1:1,67	237,5	38	20	36	80	11,0	18
5	30 Nm	8.000	i = 1:1	225,0	76	28	56	80	12,5	18
7	70 Nm	6.500	i = 1:1	295,0	100	38	80	80	13,5	18

Size	Toolholder	Clearance dia. E mm		L3 mm		L4 mm		Order No.		
		without coolant	with coolant	without coolant	with coolant	without coolant	with coolant	without coolant	external coolant	internal coolant
0	ER 11	50		49		-8,0		135592		
5	ER 25	82	82	65	65	10,0	10,0	135651	105683	
5	mi 40	125	125	65	65	23,5	23,5	173542	162941	
7	ER 32	102	102	66	66	13,0	13,0	135656	162928	
7	mi 50	135	135	66	66	29,0	29,0	105687	169062	

**HSK 100** **WS**

**Angle Head, Adjustable 0-98°**



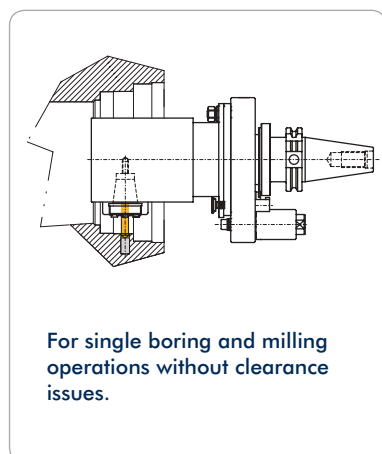
Size	Torque max.	Rev. max. (r.p.m.)	Gear Ratio	L mm	L1 mm	H mm	A mm	kg	SW
5	30 Nm	7.000 / 13.500	i = 1:1 / 1:2,25	205	96	111	80	14,0	18
7	70 Nm	6.000	i = 1:1	225	109	132	80	16,0	18

Size	Toolholder	L2 mm	L4 mm	Order No. (i=1:1)		Order No. (i=1:2,25)	
				without coolant	internal coolant	without coolant	internal coolant
5	ER 25	84	25	162976	135865	162977	162978
5	mi 40	97	25	162979	169980	162980	162981
7	ER 32	95	25	162986	105866		
7	mi 50	108	25	162991	169942		

**MAS-BT 40**

**SW**

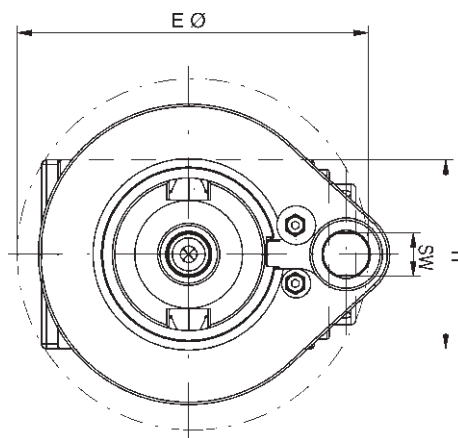
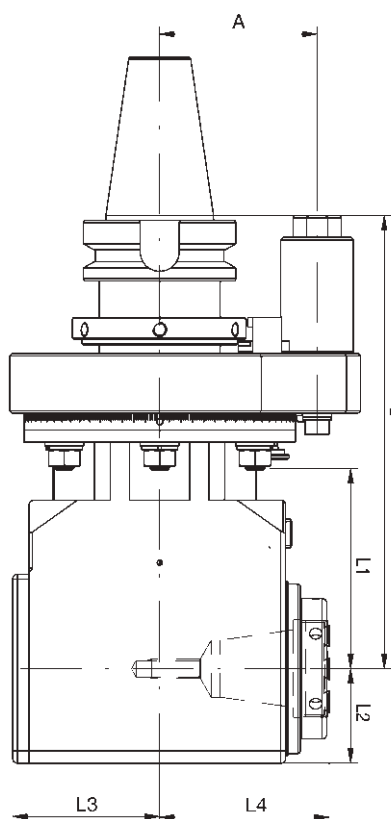
## Angle Head 90°



For single boring and milling operations without clearance issues.



**Attention!**  
Reversal of rotation direction



Size	Torque max.	Rev. max. (r.p.m.)	Gear Ratio	L mm	L1 mm	L2 mm	H mm	A mm	kg	SW
1	12 Nm	10.000	i = 1:1	187	80	22	44	65	6,0	18
5	30 Nm	8.000	i = 1:1	187	80	34	68	65	6,5	18
7	70 Nm	6.500	i = 1:1	187	80	39	78	65	8,0	18

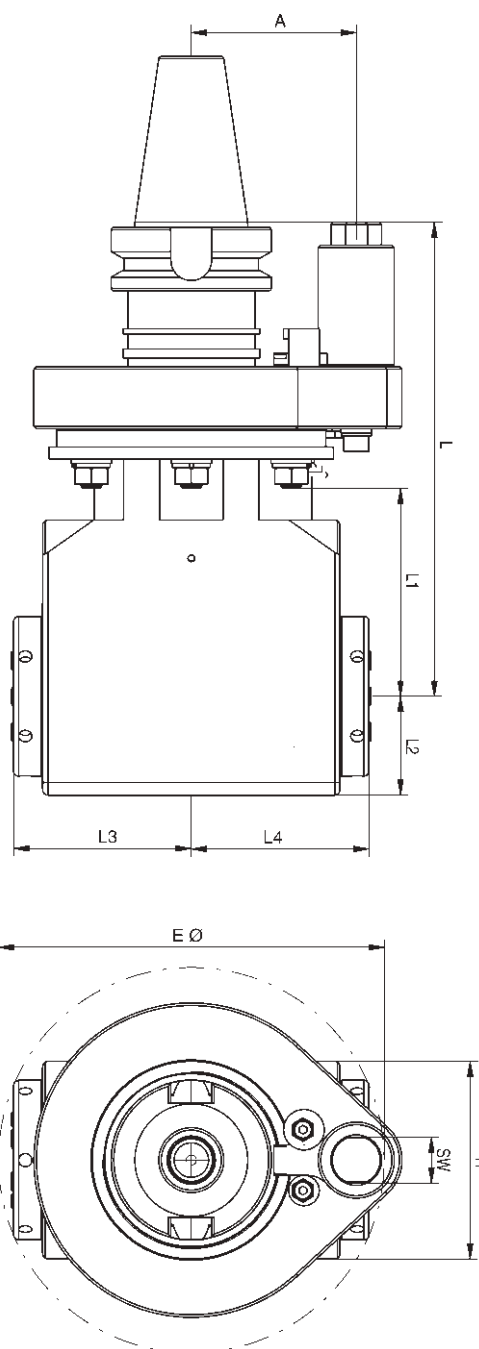
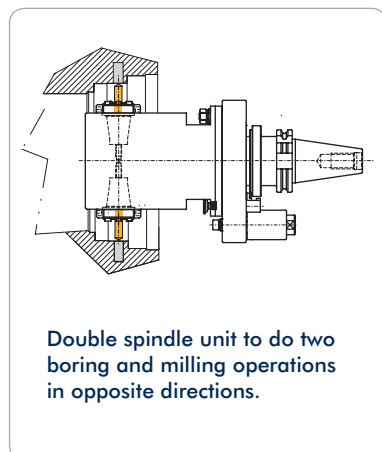
Size	Toolholder	Clearance dia. E mm		L3 mm		L4 mm		Order No.		
		without coolant	with coolant	without coolant	with coolant	without coolant	with coolant	without coolant	external coolant	internal coolant
1	ER 16	91	96	29,0	44	45,0	50	135431	135444	135451
5	ER 25	110	120	41,5	52	57,5	63	135459	105503	135435
5	mi 40	138	146	41,5	52	72,0	72	173000	162802	162803
7	ER 32	145	155	61,0	75	70,0	75	135470	162777	105505
7	mi 50	172	178	61,0	75	83,0	83	170653	176278	167889



**MAS-BT 40**

**DW**

## Double Angle Head 90°



Size	Torque max.	Rev. max. (r.p.m.)	Gear Ratio	L mm	L1 mm	L2 mm	H mm	A mm	kg	SW
5	30 Nm	8.000	i = 1:1	187	80	39	78	65	7,5	18
7	70 Nm	6.500	i = 1:1	187	80	39	78	65	8,5	18

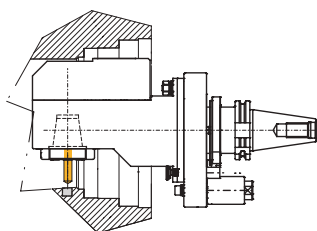
Size	Toolholder	Clearance dia. E mm		L3 mm		L4 mm		Order No.		
		without coolant	with coolant	without coolant	with coolant	without coolant	with coolant	without coolant	external coolant	internal coolant
5	2 x ER 25	125	125	62,0	62,0	62,0	62,0	135717	162823	
5	2 x mi 32	200	200	76,5	76,5	76,5	76,5	173509	162840	
7	2 x ER 32	152	152	71,2	71,2	71,2	71,2	135729	162829	
7	2 x mi 40	220	220	88,0	88,0	88,0	88,0	173516	162847	

12

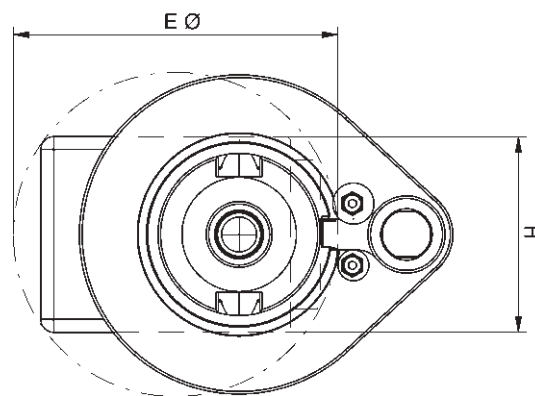
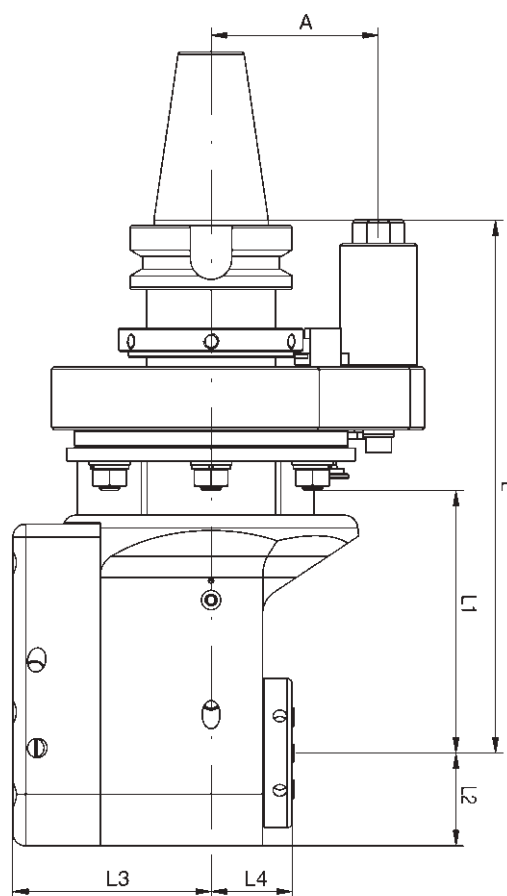
**MAS-BT 40**

**ZW**

## Angle Head 90°, Offset Type



Rear offset unit with increased usable tool length and internal coolant is an option.

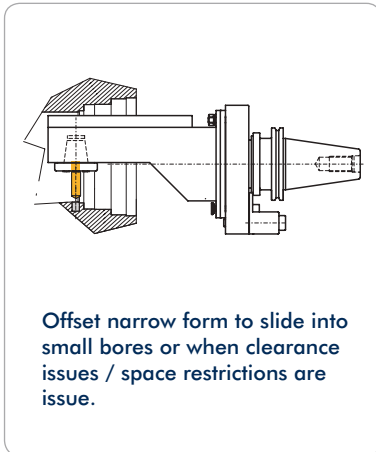


Size	Torque max.	Rev. max. (r.p.m.)	Gear Ratio	L mm	L1 mm	L2 mm	H mm	A mm	kg	SW
5	30 Nm	8.000	i = 1:1	187	80	28,5	57	65	6,5	18
7	70 Nm	6.000	i = 1:1	205	100	38,0	76	65	8,5	18

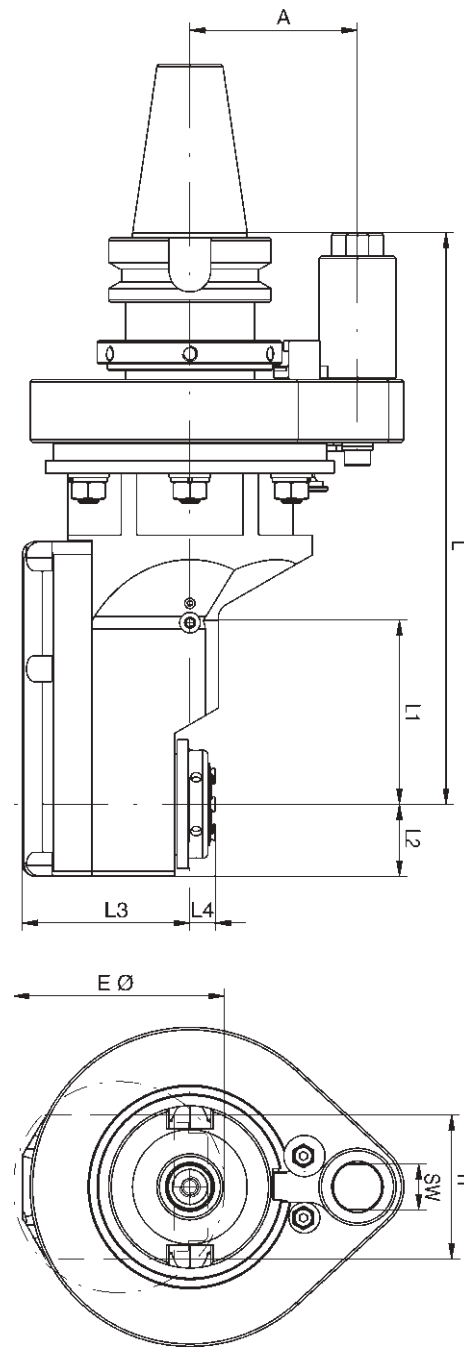
Size	Toolholder	Clearance dia. E mm		L3 mm		L4 mm		Order No.		
		without coolant	with coolant	without coolant	with coolant	without coolant	with coolant	without coolant	external coolant	internal coolant
5	ER 25	103	103	57,0	57,0	35,8	41,6	105435	162857	162859
5	mi 40	130	130	57,0	57,0	50,3	50,3	105458	162882	162883
7	ER 32	128	128	77,5	77,5	32,2	38,0	105477	162870	172498
7	mi 50	150	150	77,5	77,5	55,0	55,0	173527	162897	162898

**MAS-BT 40 ZWS**

**Angle Head 90°, Offset Slim Type**



**Attention!**  
Reversal of rotation direction



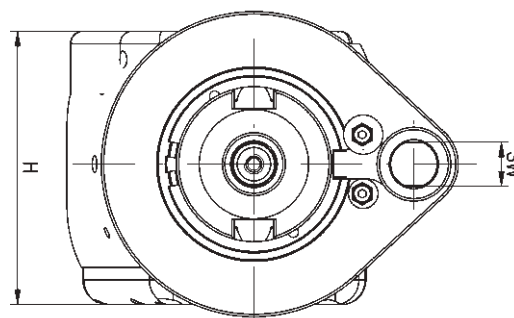
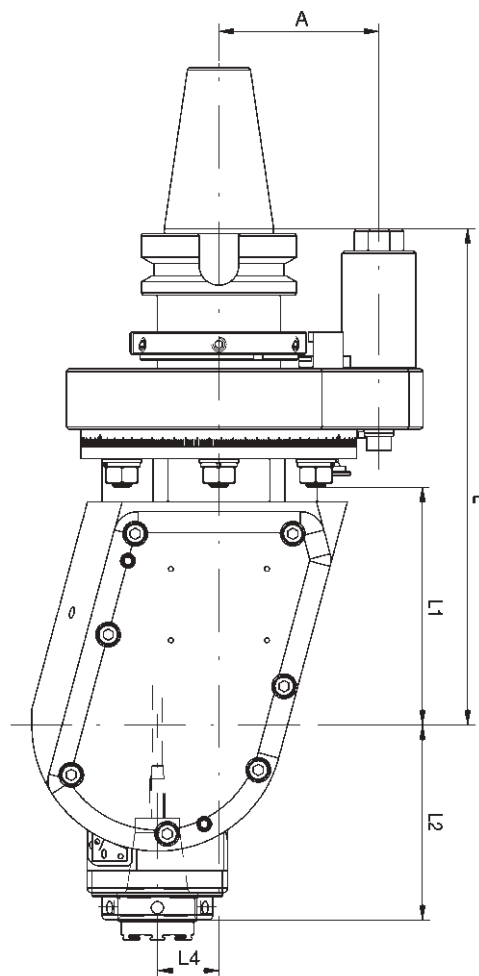
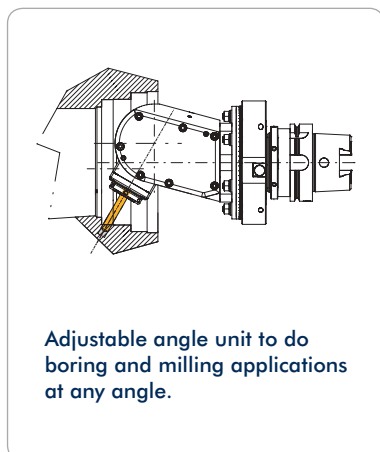
Size	Torque max.	Rev. max. (r.p.m.)	Gear Ratio	L mm	L1 mm	L2 mm	H mm	A mm	kg	SW
0	6 Nm	12.000	i = 1:1,67	220	38	20	36	65	7,0	18
3	15 Nm	10.000	i = 1:1	232	80	24	48	65	6,0	18
5	30 Nm	8.000	i = 1:1	222	76	28	56	65	6,5	18

Size	Toolholder	Clearance dia. E mm		L3 mm		L4 mm		Order No.		
		without coolant	with coolant	without coolant	with coolant	without coolant	with coolant	without coolant	external coolant	internal coolant
0	ER 11	50		49,0		-8,0		105651		
3	ER 20	75		54,5		11,2		135629		
3	mi 32	100		54,5		26,0		173536		
5	ER 25	82	82	65,0	65,0	10,0	10,0	135649	162924	
5	mi 40	125	125	65,0	65,0	23,5	23,5	173537	162936	

**MAS-BT 40**

**WS**

## Angle Head, Adjustable 0-98°



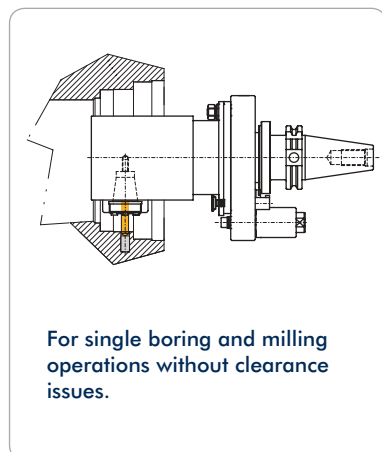
Size	Torque max.	Rev. max. (r.p.m.)	Gear Ratio	L mm	L1 mm	H mm	A mm	kg	SW
3	15 Nm	8.000 / 15.000	i = 1:1 / 1:2,25	196	100	96	65	8,0	18
5	30 Nm	7.000 / 13.500	i = 1:1 / 1:2,25	202	100	111	65	9,6	18

Size	Toolholder	L2 mm	L4 mm	Order No. (i=1:1)		Order No. (i=1:2,25)	
				without coolant	internal coolant	without coolant	internal coolant
3	ER 20	75,0	20	173907	105808	162858	162933
3	mi 32	82,9	20	156569	167418	156570	156574
5	ER 25	84,0	25	162955	135813	162957	162956
5	mi 40	97,0	25	162958	169976	162959	162960

**MAS-BT 50**

**SW**

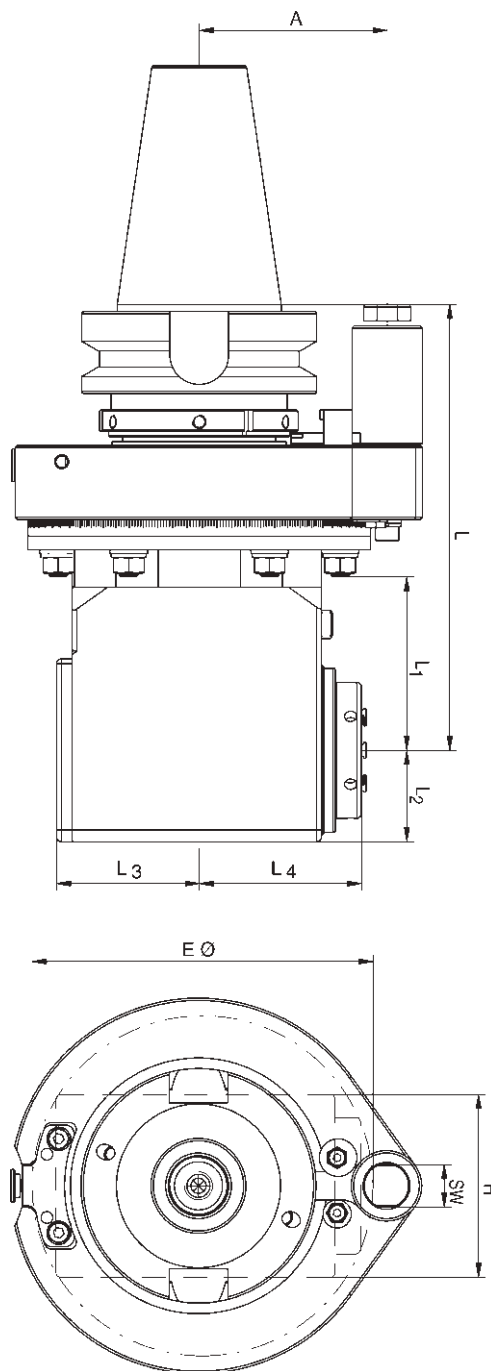
## Angle Head 90°



For single boring and milling operations without clearance issues.



**Attention!**  
Reversal of rotation direction



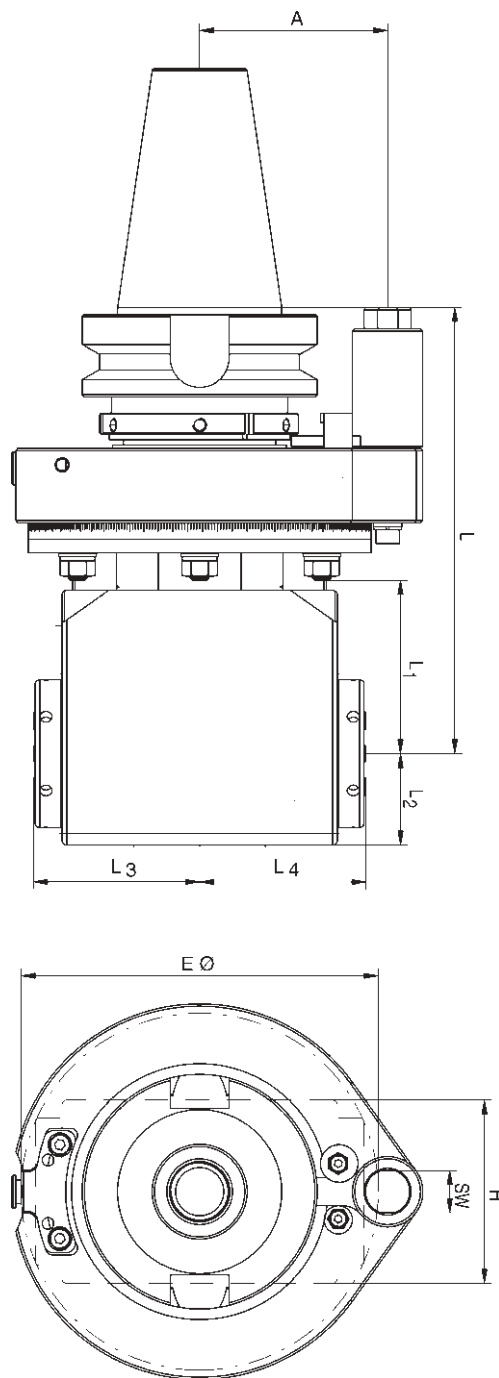
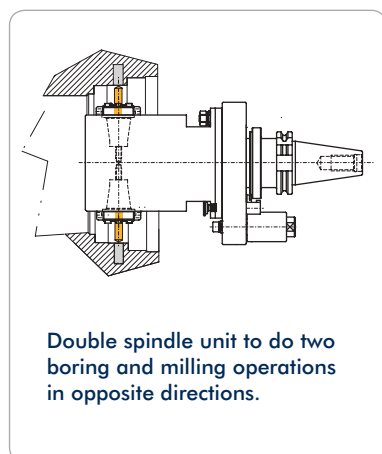
Size	Torque max.	Rev. max. (r.p.m.)	Gear Ratio	L mm	L1 mm	L2 mm	H mm	A mm	kg	SW
5	30 Nm	8.000	i = 1:1	190	75	34	68	80	10,5	18
7	70 Nm	6.500	i = 1:1	190	75	39	78	80	12,0	18
9	150 Nm	5.000	i = 1:1	225	109	52	104	80	18,0	18

Size	Toolholder	Clearance dia. E mm		L3 mm		L4 mm		Order No.		
		without coolant	with coolant	without coolant	with coolant	without coolant	with coolant	without coolant	external coolant	internal coolant
5	ER 25	110	120	41,5	52	57,5	63,0	105494	162772	162773
5	mi 40	138	146	41,5	52	72,0	72,0	173014	162809	162810
7	ER 32	145	155	61,0	75	70,0	75,0	135482	105538	172558
7	mi 50	172	178	61,0	75	83,0	83,0	105520	105508	174169
9	ER 40	195	195	81,0	81	92,0	96,0	105512	162783	167210
9	mi 63	224	224	81,0	81	111,5	111,5	167208	162787	167211

**MAS-BT 50**

**DW**

## Double Angle Head 90°

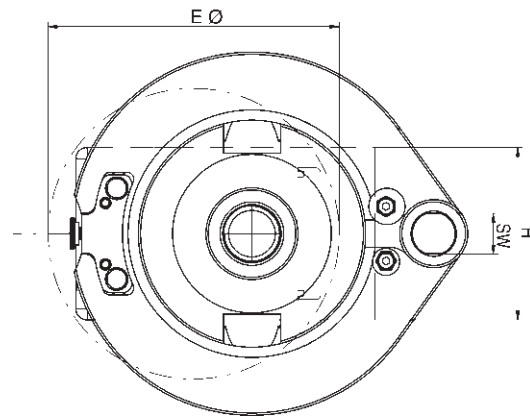
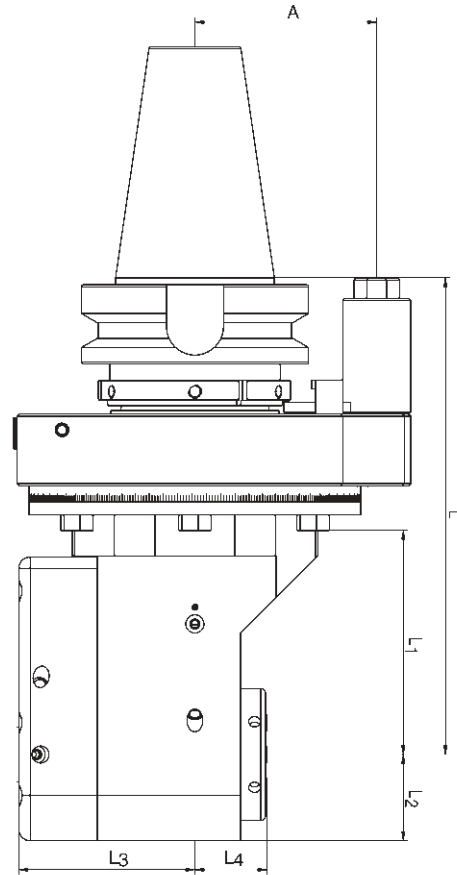
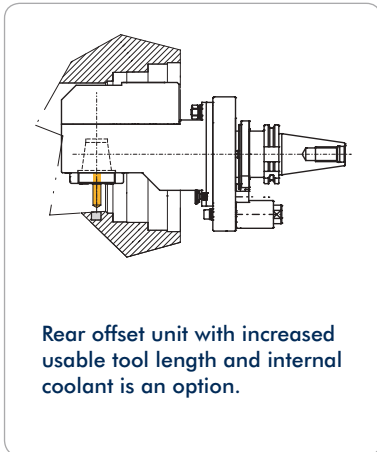


Size	Torque max.	Rev. max. (r.p.m.)	Gear Ratio	L mm	L1 mm	L2 mm	H mm	A mm	kg	SW
5	30 Nm	8.000	i = 1:1	190	70	34	68	80	11,5	18
7	70 Nm	6.500	i = 1:1	190	70	39	78	80	13,5	18
9	150 Nm	4.000	i = 1:1	225	109	58	108	80	20,0	18

Size	Toolholder	Clearance dia. E mm		L3 mm		L4 mm		Order No.		
		without coolant	with coolant	without coolant	with coolant	without coolant	with coolant	without coolant	external coolant	internal coolant
5	2 x ER 25	125	125	62,0	62,0	62,0	62,0	135691	162826	
5	2 x mi 32	200	200	76,5	76,5	76,5	76,5	173513	162844	
7	2 x ER 32	152	152	71,2	71,2	71,2	71,2	135724	162832	
7	2 x mi 40	220	220	88,0	88,0	88,0	88,0	173518	162849	
9	2 x ER 40	210	210	103,0	103,0	103,0	103,0	105788	162836	
9	2 x mi 50	250	250	116,0	116,0	116,0	116,0	173520	162853	

**MAS-BT 50 ZW**

**Angle Head 90°, Offset Type**



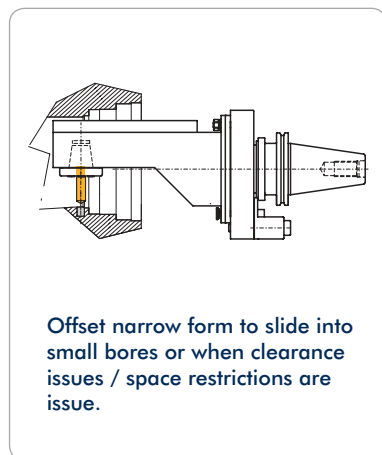
12

Size	Torque max.	Rev. max. (r.p.m.)	Gear Ratio	L mm	L1 mm	L2 mm	H mm	A mm	kg	SW
5	30 Nm	8.000	i = 1:1	195	79	28,5	57	80	11,5	18
7	70 Nm	6.000	i = 1:1	210	94	38,0	76	80	14,0	18
9	150 Nm	5.000	i = 1:1	270	110	52,0	104	80	19,0	18

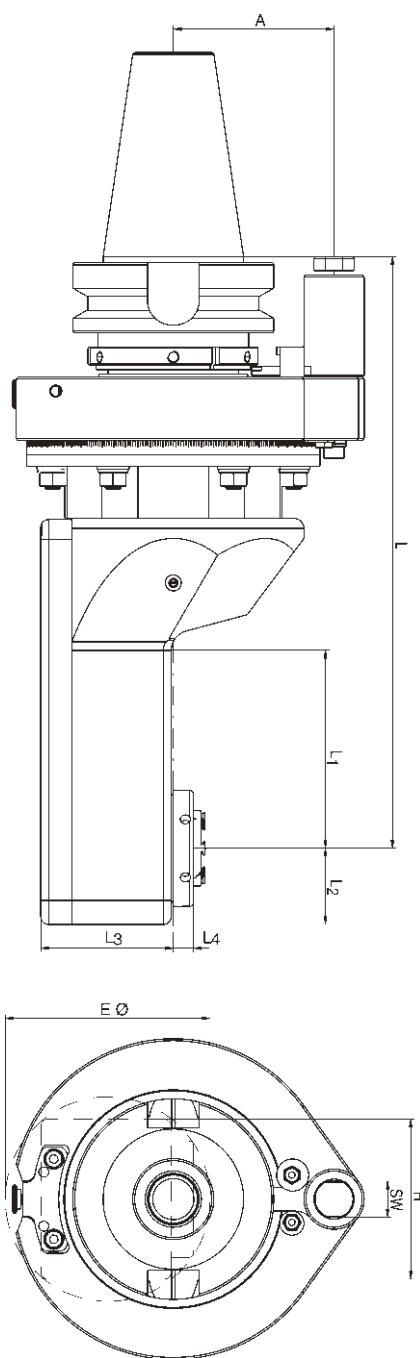
Size	Toolholder	Clearance dia. E mm		L3 mm		L4 mm		Order No.		
		without coolant	with coolant	without coolant	with coolant	without coolant	with coolant	without coolant	external coolant	internal coolant
5	ER 25	103	103	57,0	57,0	35,8	41,6	105417	162865	162866
5	mi 40	133	133	57,0	57,0	50,3	50,3	173525	162891	171760
7	ER 32	128	128	77,5	77,5	32,2	38,0	105460	162944	174661
7	mi 50	152	152	77,5	77,5	55,0	55,0	173531	162902	135378
9	ER 40	140	140	89,0	89,0	31,0	34,8	105470	168456	162878
9	mi 63	165	165	89,0	89,0	48,3	48,3	173533	162908	162909

**MAS-BT 50 ZWS**

**Angle Head 90°, Offset Slim Type**



**Attention!**  
Reversal of rotation direction



Size	Torque max.	Rev. max. (r.p.m.)	Gear Ratio	L mm	L1 mm	L2 mm	H mm	A mm	kg	SW
0	6 Nm	12.000	i = 1:1,67	237,5	38	20	36	80	11,0	18
5	30 Nm	8.000	i = 1:1	225,0	76	28	56	80	12,5	18
7	70 Nm	6.000	i = 1:1	295,0	100	38	80	80	13,5	18

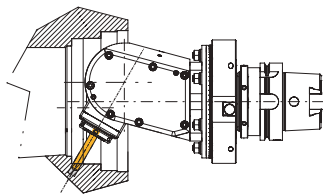
Size	Toolholder	Clearance dia. E mm		L3 mm		L4 mm		Order No.		
		without coolant	with coolant	without coolant	with coolant	without coolant	with coolant	without coolant	external coolant	internal coolant
0	ER 11	50		49		-8,0		105652		
5	ER 25	82	82	65	65	10,0	10,0	135650	168453	
5	mi 40	125	125	65	65	23,5	23,5	173541	162940	
7	ER 32	102	102	66	66	13,0	13,0	105698	168454	
7	mi 50	135	135	66	66	29,0	29,0	173544	168460	



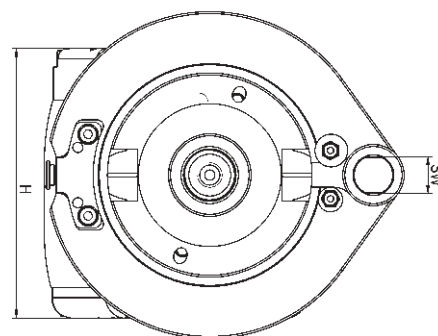
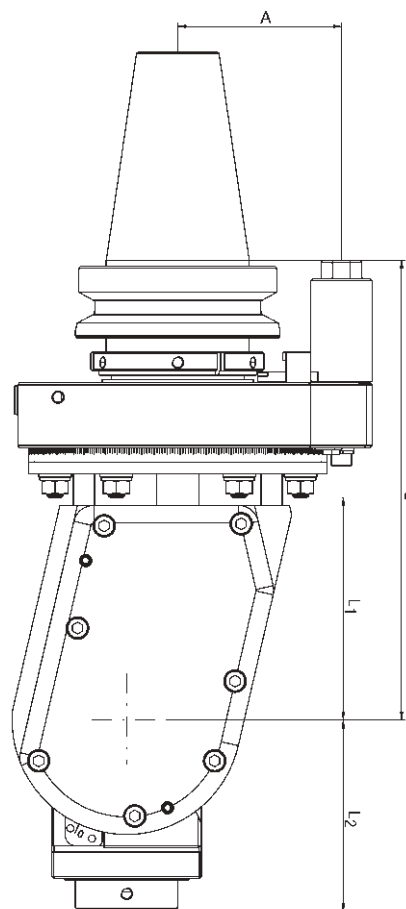
**MAS-BT 50**

**WS**

## Angle Head, Adjustable 0-98°



Adjustable angle unit to do boring and milling applications at any angle.

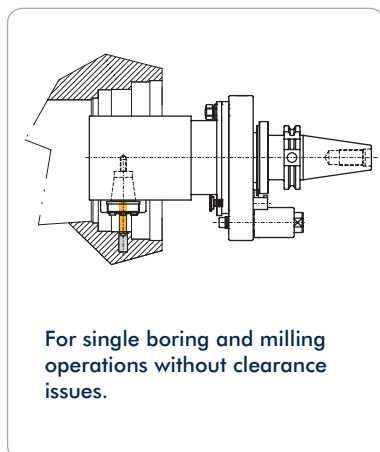


Size	Torque max.	Rev. max. (r.p.m.)	Gear Ratio	L mm	L1 mm	H mm	A mm	kg	SW
5	30 Nm	7.000 / 13.500	i = 1:1 / 1:2,25	205	100	111	80	14,0	18
7	70 Nm	6.000	i = 1:1	225	109	132	80	16,0	18

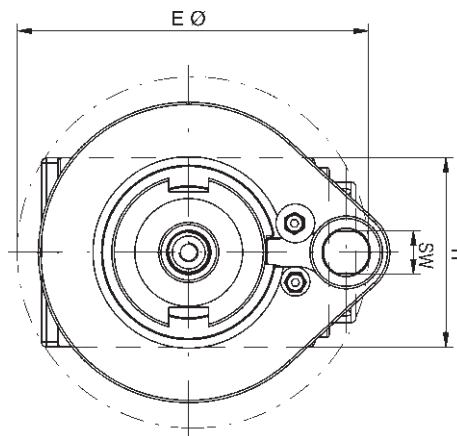
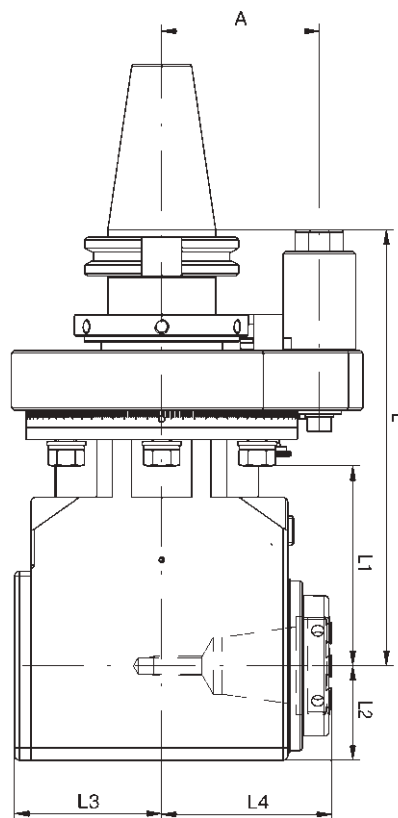
Size	Toolholder	L2 mm	L4 mm	Order No. (i=1:1)		Order No. (i=1:2,25)	
				without coolant	internal coolant	without coolant	internal coolant
5	ER 25	84	25	162970	105830	162972	162971
5	mi 40	97	25	162973	169979	162975	162974
7	ER 32	95	25	162985	105859		
7	mi 50	108	25	162988	167553		

**ANSI CAT 40 SW**

**Angle Head 90°**



**Attention!**  
Reversal of rotation direction

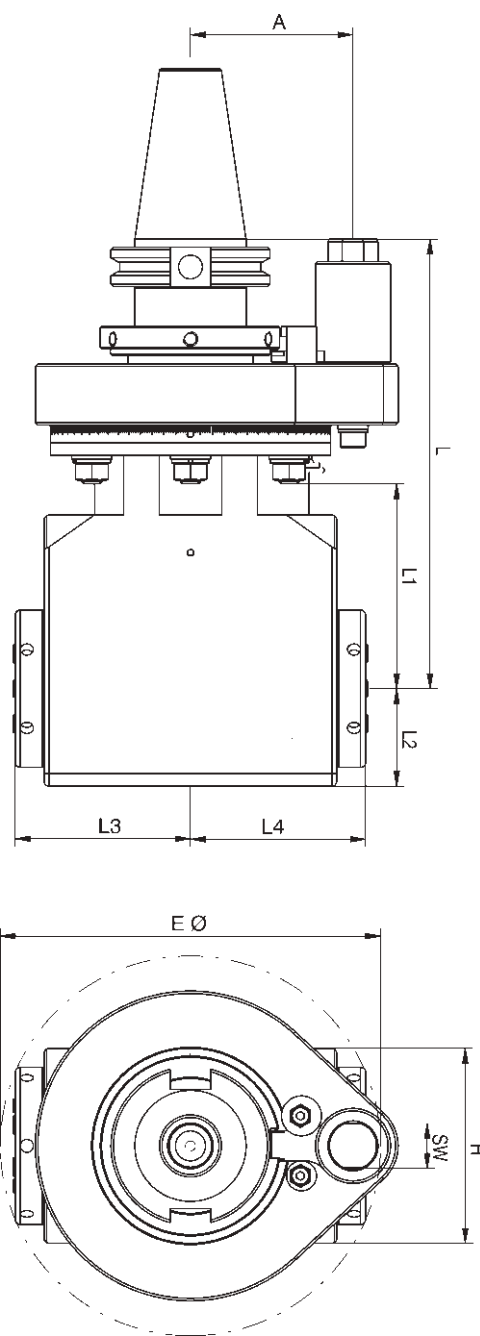
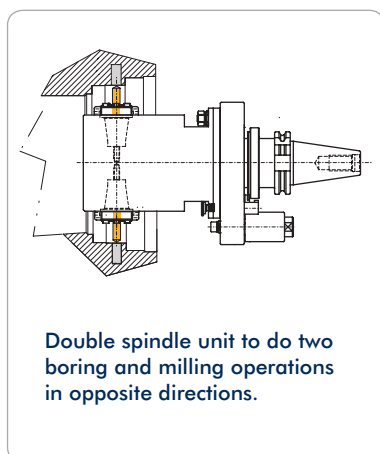


Size	Torque max.	Rev. max. (r.p.m.)	Gear Ratio	L mm	L1 mm	L2 mm	H mm	A mm	kg	SW
1	12 Nm	10.000	i = 1:1	180	80	22	44	65	6,0	18
5	30 Nm	8.000	i = 1:1	180	80	34	68	65	6,5	18
7	70 Nm	6.500	i = 1:1	180	80	39	78	65	8,0	18

Size	Toolholder	Clearance dia. E mm		L3 mm		L4 mm		Order No.		
		without coolant	with coolant	without coolant	with coolant	without coolant	with coolant	without coolant	external coolant	internal coolant
1	ER 16	91	96	29,0	44	45,0	50	135465	162769	162776
5	ER 25	110	120	41,5	52	57,5	63	135432	183182	176443
5	mi 40	138	146	41,5	52	72,0	72	169839	173031	176540
7	ER 32	145	155	61,0	75	70,0	75	135477	162775	176444
7	mi 50	172	178	61,0	75	83,0	83	135485	105509	166537

**ANSI CAT 40 DW**

**Double Angle Head 90°**

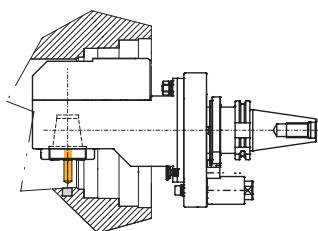


Size	Torque max.	Rev. max. (r.p.m.)	Gear Ratio	L mm	L1 mm	L2 mm	H mm	A mm	kg	SW
5	30 Nm	8.000	i = 1:1	180	80	39	78	65	7,5	18
7	70 Nm	6.500	i = 1:1	180	80	39	78	65	8,5	18

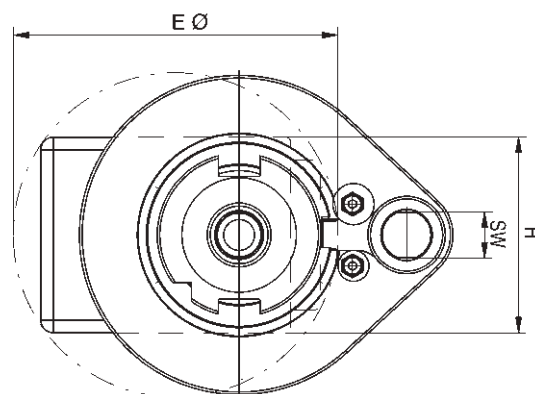
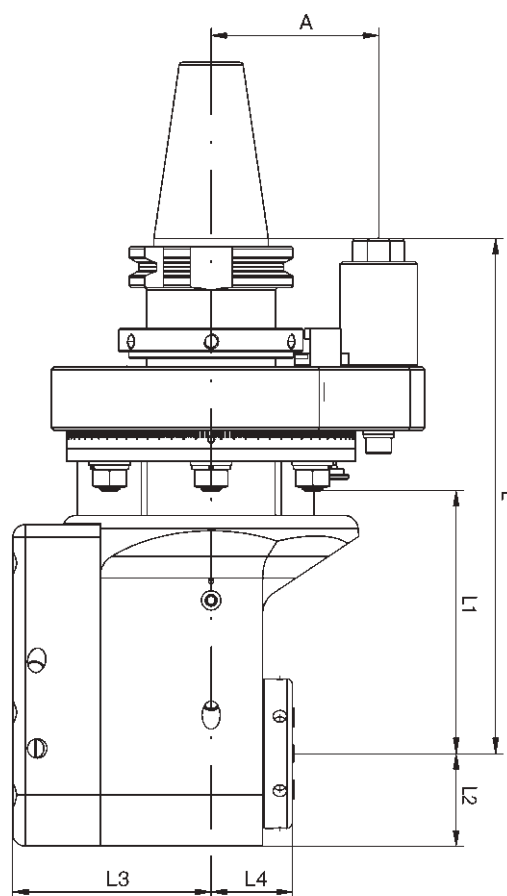
Size	Toolholder	Clearance dia. E mm		L3 mm		L4 mm		Order No.		
		without coolant	with coolant	without coolant	with coolant	without coolant	with coolant	without coolant	external coolant	internal coolant
5	2 x ER 25	125	125	62,0	62,0	62,0	62,0	135696	162822	
5	2 x mi 32	210	210	92,0	76,5	76,5	76,5	173508	162839	
7	2 x ER 32	152	152	71,2	71,2	71,2	71,2	135720	162828	
7	2 x mi 40	220	220	88,0	88,0	88,0	88,0	173515	162846	

**ANSI CAT 40 ZW**

**Angle Head 90°, Offset Type**



Rear offset unit with increased usable tool length and internal coolant is an option.

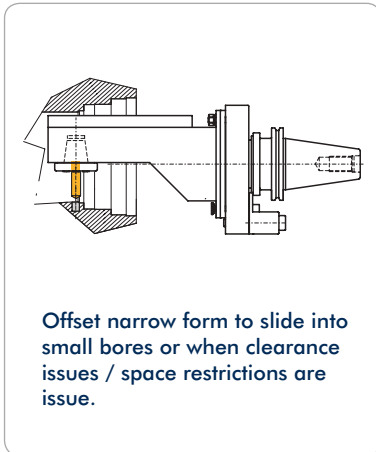


Size	Torque max.	Rev. max. (r.p.m.)	Gear Ratio	L mm	L1 mm	L2 mm	H mm	A mm	kg	SW
5	30 Nm	8.000	i = 1:1	180	80	28,5	57	65	6,5	18
7	70 Nm	6.000	i = 1:1	198	100	38,0	76	65	8,5	18

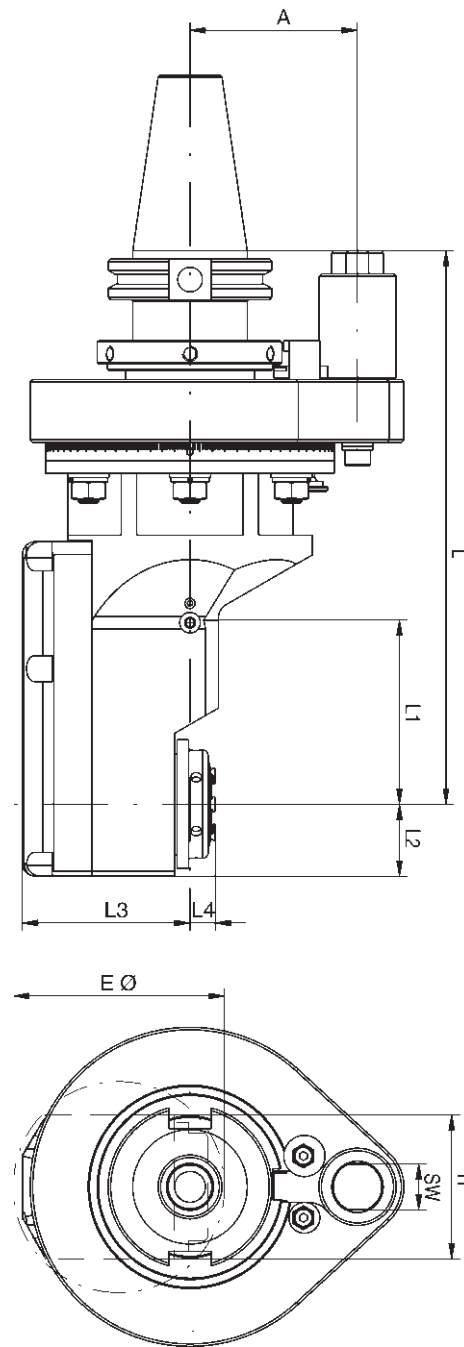
Size	Toolholder	Clearance dia. E mm		L3 mm		L4 mm		Order No.		
		without coolant	with coolant	without coolant	with coolant	without coolant	with coolant	without coolant	external coolant	internal coolant
5	ER 25	103	103	57,0	57,0	35,8	41,6	135401	162856	135415
5	mi 40	130	130	57,0	57,0	50,3	50,3	173521	162881	105451
7	ER 32	128	128	77,5	77,5	32,2	38,0	135391	162869	135417
7	mi 50	150	150	77,5	77,5	55,0	55,0	173526	162896	166538

**ANSI CAT 40 ZWS**

**Angle Head 90°, Offset Slim Type**



**Attention!**  
Reversal of rotation direction

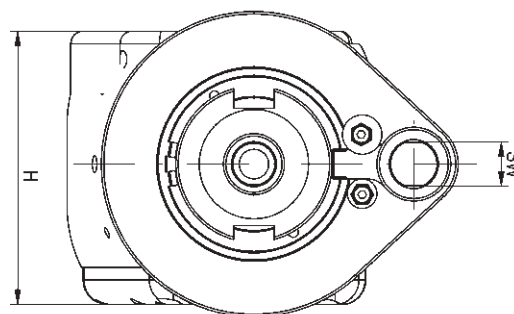
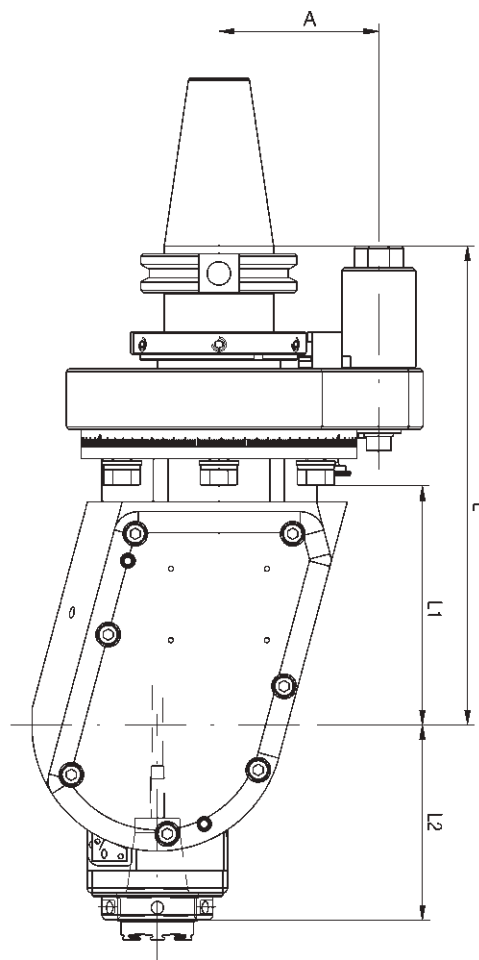
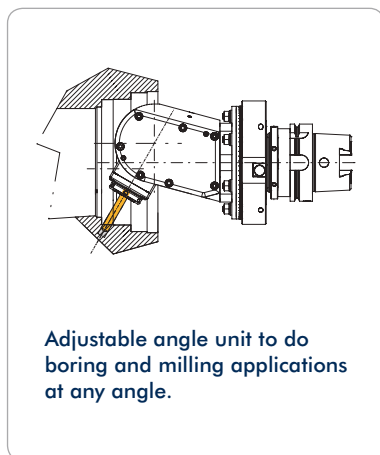


Size	Torque max.	Rev. max. (r.p.m.)	Gear Ratio	L mm	L1 mm	L2 mm	H mm	A mm	kg	SW
0	6 Nm	12.000	i = 1:1,67	213	38	20	36	65	7,0	18
3	15 Nm	10.000	i = 1:1	225	80	24	48	65	6,0	18
5	30 Nm	8.000	i = 1:1	215	76	28	56	65	6,5	18

Size	Toolholder	Clearance dia. E mm		L3 mm		L4 mm		Order No.		
		without coolant	with coolant	without coolant	with coolant	without coolant	with coolant	without coolant	external coolant	internal coolant
0	ER 11	50		49,0		-8,0		135613		
3	ER 20	75		54,5		11,2		135614		
3	mi 32	100		54,5		26,0		162929		
5	ER 25	82	82	65,0	65,0	10,0	10,0	135619	162923	
5	mi 40	125	125	65,0	65,0	23,5	23,5	173538	162935	

**ANSI CAT 40 WS**

**Angle Head, Adjustable 0-98°**

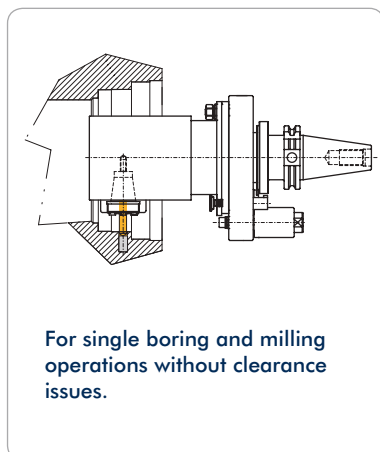


Size	Torque max.	Rev. max. (r.p.m.)	Gear Ratio	L mm	L1 mm	H mm	A mm	kg	SW
3	15 Nm	8.000 / 15.000	i = 1:1 / 1:2,25	189	91	96	65	8,0	18
5	30 Nm	7.000 / 13.500	i = 1:1 / 1:2,25	195	96	111	65	9,6	18

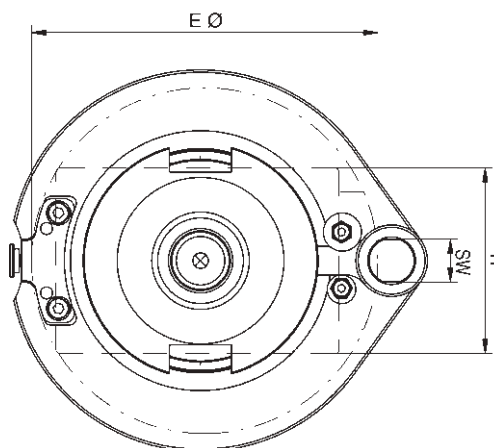
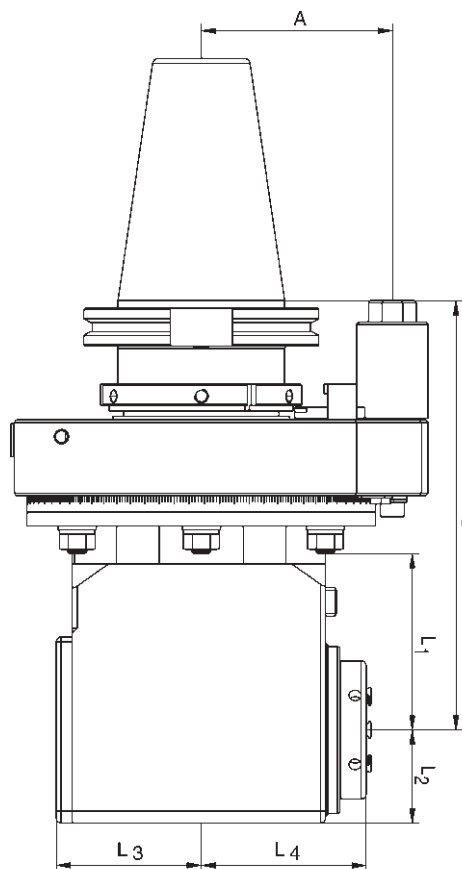
Size	Toolholder	L2 mm	L4 mm	Order No. (i=1:1)		Order No. (i=1:2,25)	
				without coolant	internal coolant	without coolant	internal coolant
3	ER 20	75,0	20	162797	135811	162800	162801
3	mi 32	82,9	20	156566	167896	156567	156568
5	ER 25	84,0	25	172227	135838	162717	135781
5	mi 40	97,0	25	162932	135817	162725	162724

**ANSI CAT 50 SW**

**Angle Head 90°**



**Attention!**  
Reversal of rotation direction

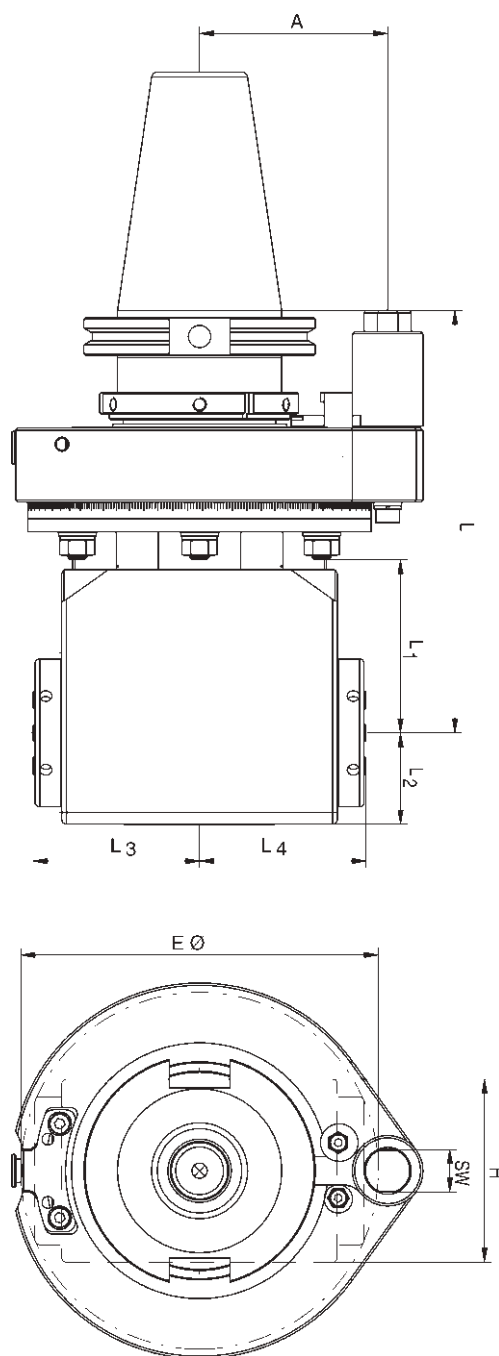
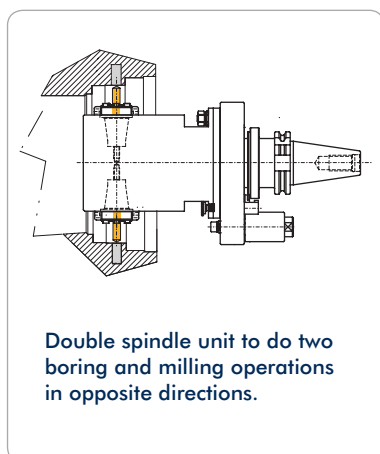


Size	Torque max.	Rev. max. (r.p.m.)	Gear Ratio	L mm	L1 mm	L2 mm	H mm	A mm	kg	SW
5	30 Nm	8.000	i = 1:1	180	75	34	68	80	10,5	18
7	70 Nm	6.500	i = 1:1	180	75	39	78	80	12,0	18
9	150 Nm	5.000	i = 1:1	215	105	52	104	80	18,0	18

Size	Toolholder	Clearance dia. E mm		L3 mm		L4 mm		Order No.		
		without coolant	with coolant	without coolant	with coolant	without coolant	with coolant	without coolant	external coolant	internal coolant
5	ER 25	110	120	41,5	52	57,5	63,0	135420	162770	162771
5	mi 40	138	146	41,5	52	72,0	72,0	173068	162807	162808
7	ER 32	145	155	61,0	75	70,0	75,0	135471	162779	172905
7	mi 50	172	178	61,0	75	83,0	83,0	135472	162796	105525
9	ER 40	195	195	81,0	81	92,0	96,0	105553	162781	162782
9	mi 63	224	224	81,0	81	111,5	111,5	173505	162785	162786

**ANSI CAT 50 DW**

**Double Angle Head 90°**



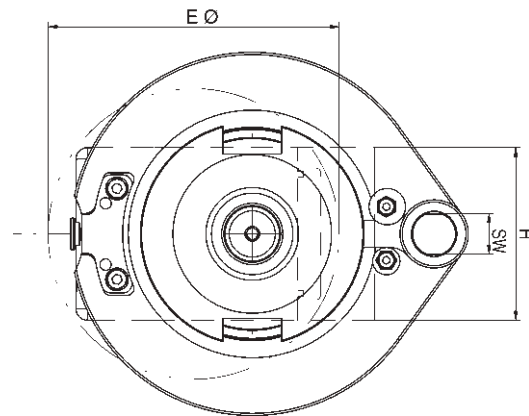
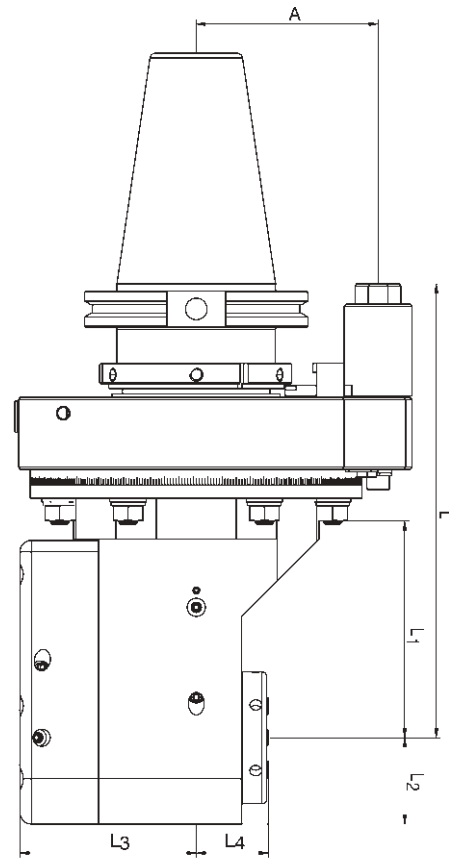
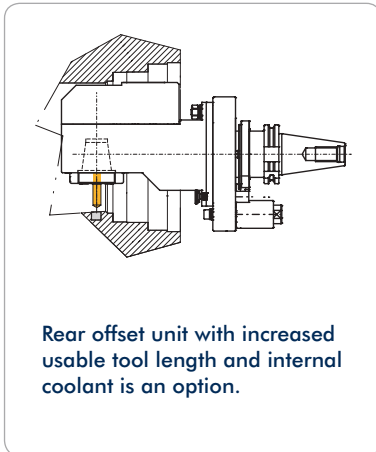
Size	Torque max.	Rev. max. (r.p.m.)	Gear Ratio	L mm	L1 mm	L2 mm	H mm	A mm	kg	SW
5	30 Nm	8.000	i = 1:1	180	70	34	68	80	11,5	18
7	70 Nm	6.500	i = 1:1	180	70	39	78	80	13,5	18
9	150 Nm	4.000	i = 1:1	215	109	58	108	80	20,0	18

Size	Toolholder	Clearance dia. E mm		L3 mm		L4 mm		Order No.		
		without coolant	with coolant	without coolant	with coolant	without coolant	with coolant	without coolant	external coolant	internal coolant
5	2 x ER 25	125	125	62,0	62,0	62,0	62,0	135723	135718	
5	2 x mi 32	200	200	76,5	76,5	76,5	76,5	173512	162843	
7	2 x ER 32	152	152	71,2	71,2	71,2	71,2	135725	162831	
7	2 x mi 40	220	220	88,0	88,0	88,0	88,0	173517	162848	
9	2 x ER 40	210	210	103,0	103,0	103,0	103,0	105789	162835	
9	2 x mi 50	250	250	116,0	116,0	116,0	116,0	173519	162852	



**ANSI CAT 50 ZW**

**Angle Head 90°, Offset Type**



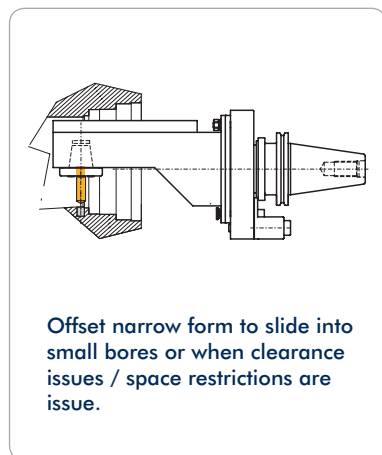
12

Size	Torque max.	Rev. max. (r.p.m.)	Gear Ratio	L mm	L1 mm	L2 mm	H mm	A mm	kg	SW
5	30 Nm	8.000	i = 1:1	185	79	28,5	57	80	11,5	18
7	70 Nm	6.000	i = 1:1	200	94	38,0	78	80	14,0	18
9	150 Nm	5.000	i = 1:1	260	152	52,0	104	80	19,0	18

Size	Toolholder	Clearance dia. E mm		L3 mm		L4 mm		Order No.		
		without coolant	with coolant	without coolant	with coolant	without coolant	with coolant	without coolant	external coolant	internal coolant
5	ER 25	103	103	58,0	58,0	35,8	41,6	135371	162863	162864
5	mi 40	133	133	58,0	58,0	50,3	50,3	173524	162888	167846
7	ER 32	128	128	77,5	77,5	32,2	38,0	135374	162872	135379
7	mi 50	152	152	77,5	77,5	55,0	55,0	173530	162901	105480
9	ER 40	140	140	89,0	89,0	31,0	34,8	105448	162875	162877
9	mi 63	165	165	89,0	89,0	48,3	48,3	169045	162906	162907

**ANSI CAT 50 ZWS**

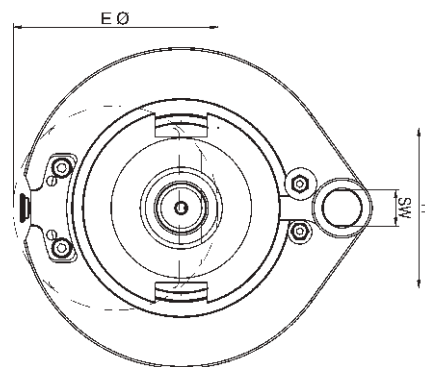
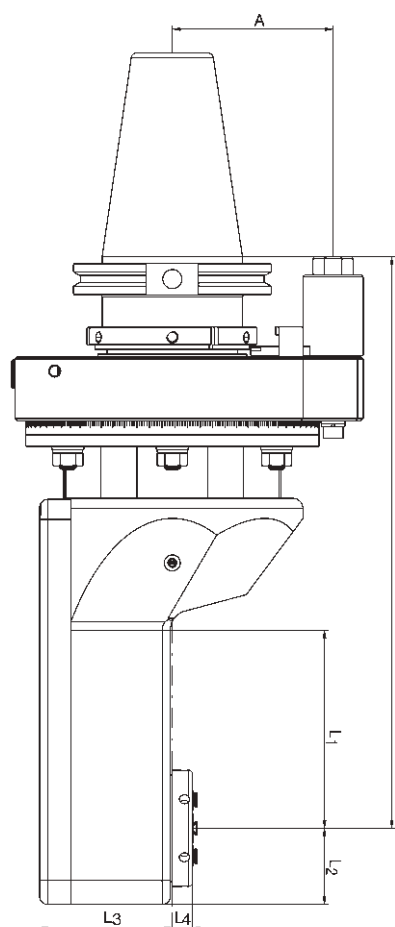
**Angle Head 90°,  
Offset Slim Type**



Offset narrow form to slide into small bores or when clearance issues / space restrictions are issue.



**Attention!**  
Reversal of rotation direction

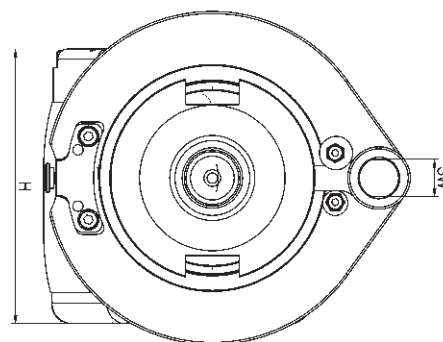
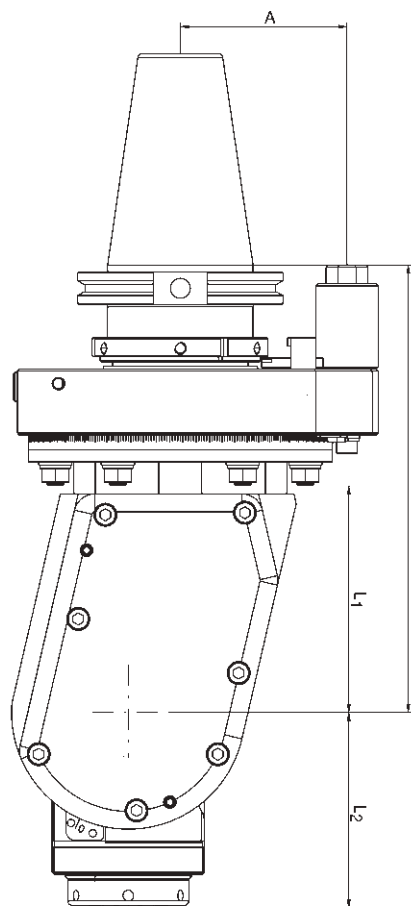
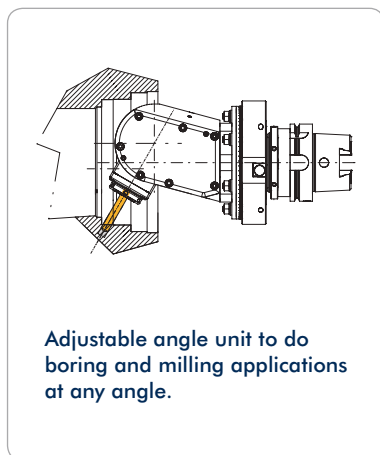


Size	Torque max.	Rev. max. (r.p.m.)	Gear Ratio	L mm	L1 mm	L2 mm	H mm	A mm	kg	SW
0	6 Nm	12.000	i = 1:1,67	227,5	38	20	36	80	11,0	18
5	30 Nm	8.000	i = 1:1	215,0	76	28	56	80	12,5	18
7	70 Nm	6.000	i = 1:1	285,0	100	38	80	80	13,5	18

Size	Toolholder	Clearance dia. E mm		L3 mm		L4 mm		Order No.		
		without coolant	with coolant	without coolant	with coolant	without coolant	with coolant	without coolant	external coolant	internal coolant
0	ER 11	50		49		-8,0		135591		
5	ER 25	82	82	65	65	10,0	10,0	135620	167467	
5	mi 40	125	125	65	65	23,5	23,5	173540	162939	
7	ER 32	102	102	66	66	13,0	13,0	135653	162927	
7	mi 50	135	135	66	66	29,0	29,0	135638	162943	

**ANSI CAT 50 WS**

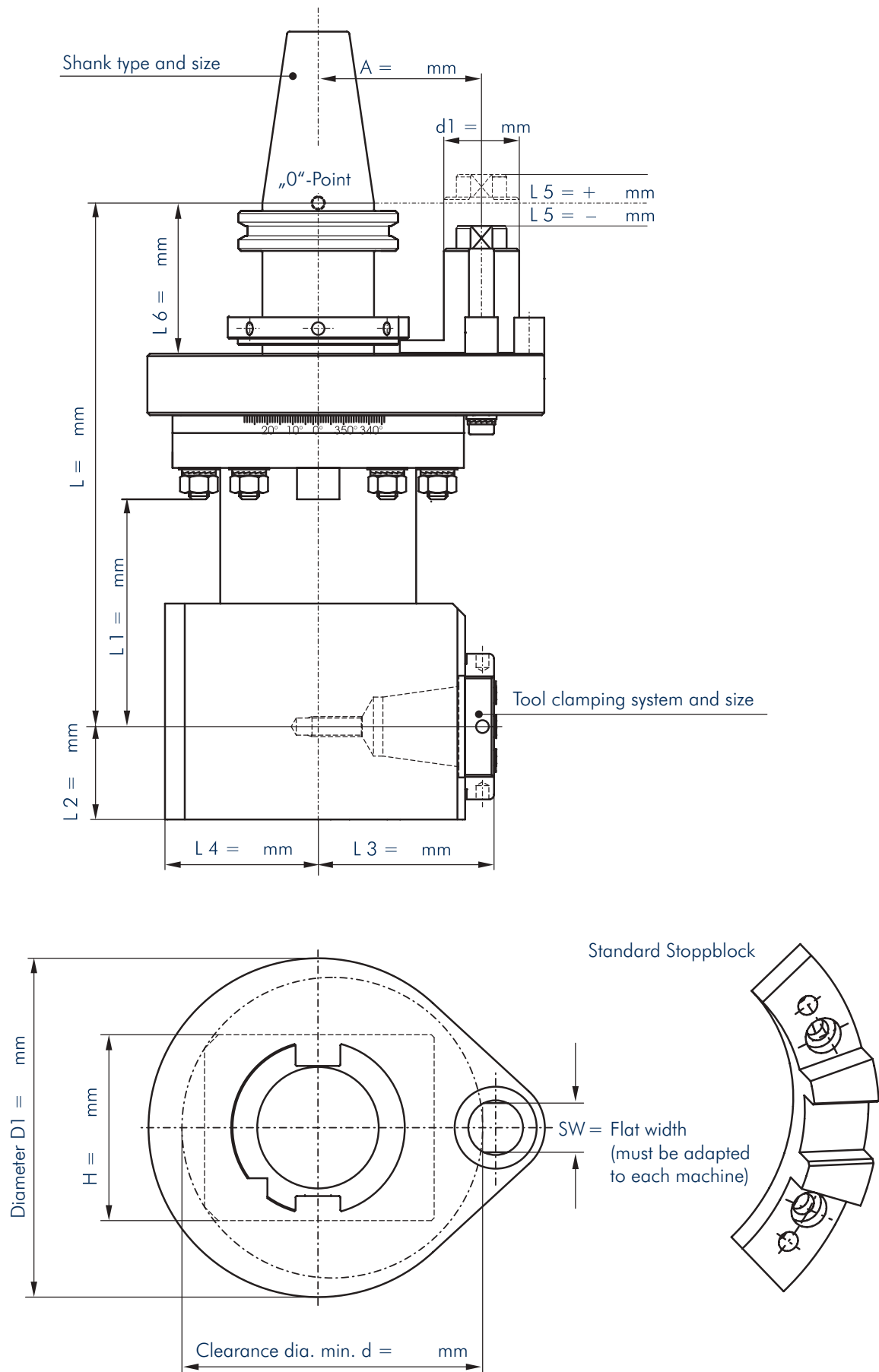
**Angle Head, Adjustable 0-98°**



Size	Torque max.	Rev. max. (r.p.m.)	Gear Ratio	L mm	L1 mm	H mm	A mm	kg	SW
5	30 Nm	7.000 / 13.500	i = 1:1 / 1:2,25	195	100	111	80	14,0	18
7	70 Nm	6.000	i = 1:1	215	109	132	80	16,0	18

Size	Toolholder	L2 mm	L4 mm	Order No. (i=1:1)		Order No. (i=1:2,25)	
				without coolant	internal coolant	without coolant	internal coolant
5	ER 25	84	25	162946	135839	162947	162948
5	mi 40	97	25	162951	169978	162950	162949
7	ER 32	95	25	162984	162983		
7	mi 50	108	25	162990	169941		

## Checklist for Inquiry



# Form for Inquiry

## Fax +49-831-57444-90

Company	
Name	
Street	
Zip/City	
Phone	
Fax	
E-Mail	

### Specifications to the Machine

Manufacturer	
Type, Year of manufacturing	
Machine No.	
Coolant pressure (internal coolant)	
Spindle speed max.	r.p.m
max. torque of the spindle	Nm
Support available	yes no
Stop block available	yes no
Stop block drawing	yes (please transmit) no
Tool places (magazine)	pieces

### Specifications to the Operation

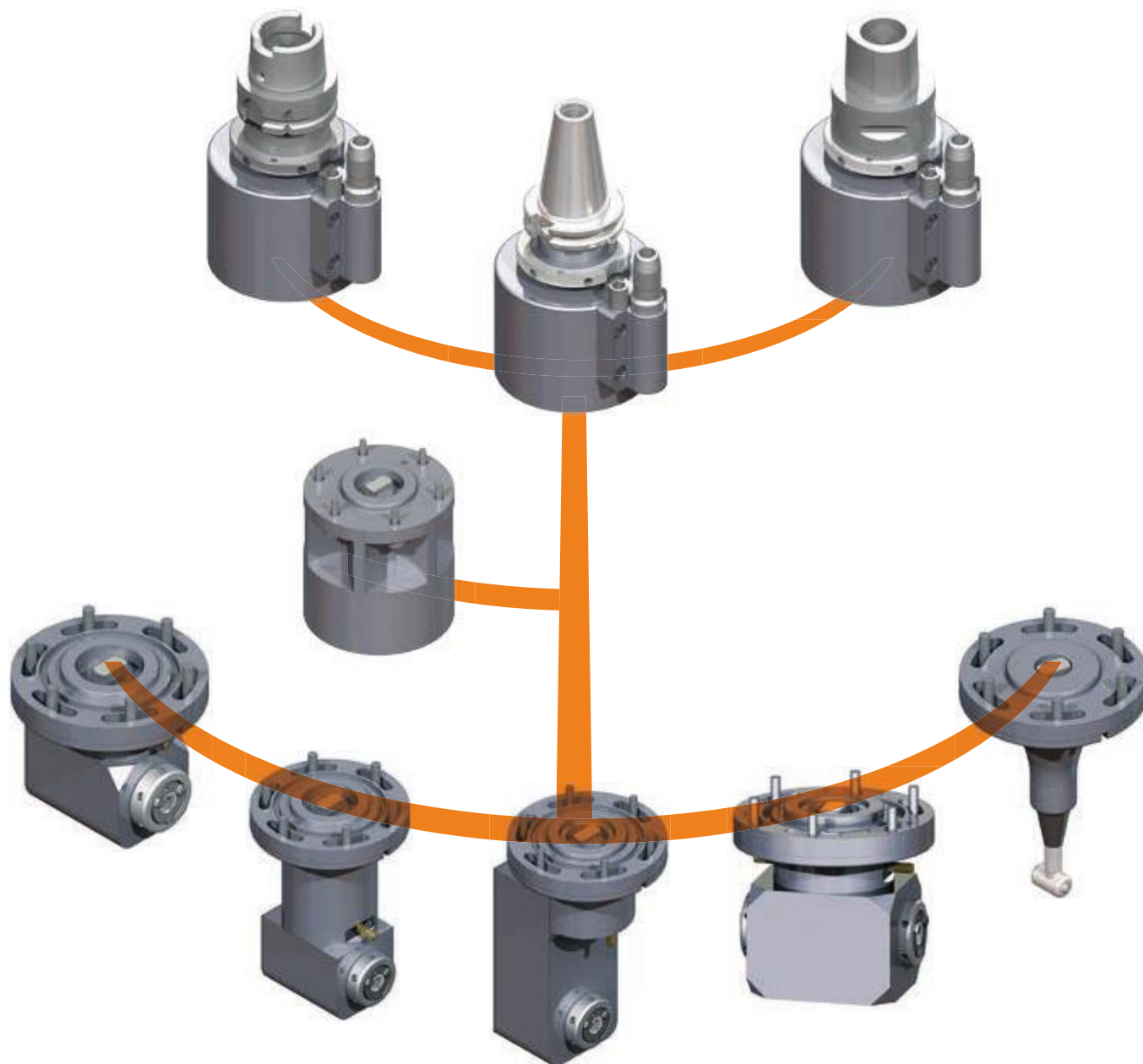
Operation	
(drilling, milling, turning, etc.)	
Material	
Tool	
Work piece drawing	yes (please transmit) no
Number of supports	

### Specifications to the Angle Head

Spindle connection (Shank)	SK	ANSI-CAT	MAS-BT	HSK
Others				
Shank size (DIN)	others			
Gear ratio	i=			
Dimensions (see drawing page 92)				
Tool holder (One-spindle)				
Another tool holders (Multi-spindle)				
Locking	yes no			
Spindle speed wanted	r.p.m			
Torque moment wanted	Nm			
Offset A	mm			
Locking bolt Ø	mm			
Position to the zero point	+ -		mm	
Tool weight max.	kg			
Tool diameter max.	mm			
Automatic tool change	yes no			
Manual tool change	yes no			
Coolant	yes no			
max. coolant pressure through the spindle (internal)				
Coolant nozzle				
Coolant pipe				
Accessories				

## Modular Angle Heads

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



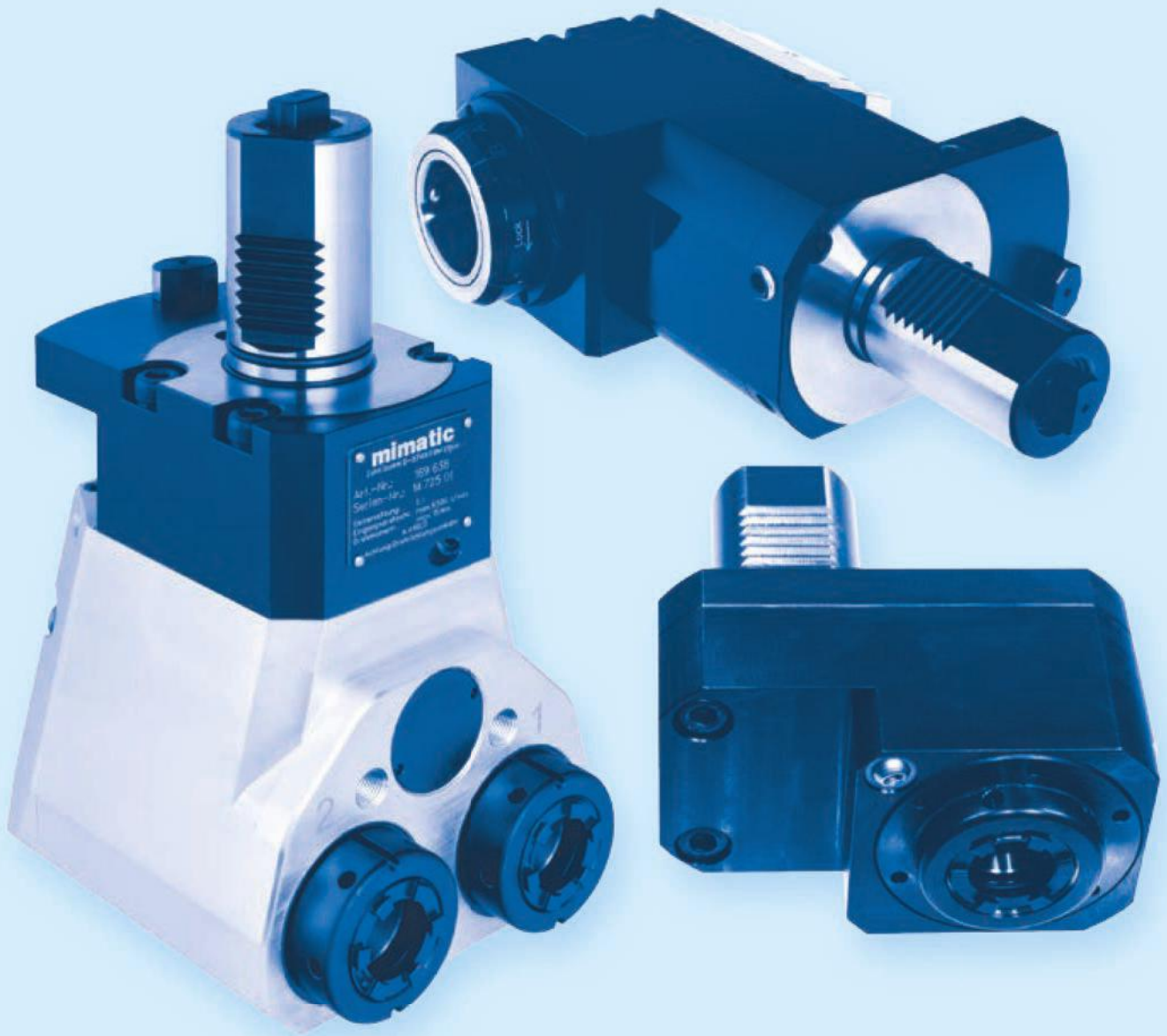
### Modular System

- Flexible for a multitude of applications
- Adaptable with a wide variety of machine tapers
- Bolt design mounting system for added rigidity
- Very cost effective when a variety of angle heads are required
- 360 degree body and head rotation
- Tapered positioning pin for alignment accuracy

### Angle Head Variants

- Compact design (SW) for added milling rigidity
- Extended length (LW) design for added reach
- Slim design (ZWS) for inner bore work
- Double output (DW) design eliminates the necessity for two heads
- NSK output for small internal engraving and light duty milling
- Quick Change system for operations involving multiple tools

Live Tools for CNC Turning Machines



## CUTTING TOOLS

<b>Milling</b>	Thread Milling	18-49	1
	Large Thread Milling	50-85	2
	Gear Milling	86-91	3
	Slot Milling	92-123	4
	Contour and Radius Milling Chamfering, Deburring	124-131	5
<b>Sawing, Slitting</b>	Sawing, Cutting, Slitting	132-141	6
<b>Bore Machining</b>	Drill Milling, Counterboring	142-157	7
	Reaming	158-165	8
<b>Axial Grooving</b>	Axial Grooving, adjustable	166-171	9
<b>Special Tools</b>	Special- and Combination Tools	172-175	10
<b>General</b>	Technical Cutting Data	176-187	11

## DRIVEN TOOLS

<b>Driven Toolholders</b>	Angle Heads - Monoblock and Modular for CNC Machining Centers	188-259	12
	Live Tools for CNC Turning Machines	260-461	13
	Multi-Spindle Technology	462-467	14
	Modular Quick Change Systems mi and Hydroflex	468-483	15
<b>Complete Solutions</b>	Compact Driven Toolholders with Interface for Carbide Inserts	484-489	16
	Driven Tool Holders with Modular Interface for Machining Solutions	490-495	17

## TOOL CLAMPING

<b>Clamping Technology</b>	Static Toolholders for CNC Turning Machines	496-531	18
	Precision Chucks	532-543	19



## Selection According to Machine and Turret Type

		Type	Page
		QTNX 100 + SQT 10	270-277
		QTNX 200 / 250 + SQT 15 + SQ 200 / 250	278-287
		QTNX 300 / 350 / 400 / 450 + SQT 28 / 30	288-293
		QT Smart 100 / 200 / 300 / 350	294-302
		Multiplex 610 / 6100 / 6200 + HQ 150	304-312
		Multiplex 620 / 6200 + HQ 200	314-323
		Multiplex 630 / 6300	324-327
Integrex IV ST + Multiplex 8200	328-331		
		LB / LU 200 - M / ECO - M	332-338
		LB / LU 300 - M/MY	340-345
		LB - 300 - MW/MYW / LT 300 - M/MY	346-350
		LVT 300 - M	352-355
		LB / LU 400 - M	356-359
		LB 3000 + LT 2000	360-368
		DIN 5482 - Disc-type Turrets VDI 30/40/50/60	370-398
		DIN 5480 - Star-type Turrets VDI 30/40	400-419
		VL 3 / 5	420-427
		VSC 200 / 250	420-427
		VSC 315 / 400 / 500	428-434
		VT 2 / VL 2 / VL 2P / VTC 100	436-439
		VT 4 / VTC 200	440-443
		NL 1500 / 2000 / 2500 / 3000	444-448
		NZ 1500 / 2000	450-455
		ST 20 / ST 30	456-459


## Selection According to Manufacturers

see SAUTER tools




## Selection According to Tool Type

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

		Manufacturer	Page
<b>Straight Unit</b>		MAZAK OKUMA SAUTER EMAG MORI SEIKI HAAS	296, 300 334, 342, 348, 354, 358, 362, 366 372, 380, 388, 396, 402, 412 422, 430, 438, 442 446, 452 458
<b>Straight Unit, Offset Type</b>		MAZAK OKUMA EMAG	272, 280, 290, 306-307, 316-317, 326, 330 335, 343 423
<b>Angle Unit</b>		MAZAK OKUMA SAUTER EMAG MORI SEIKI HAAS	273, 281, 291, 297, 301, 308-309, 318-319, 327, 331 336, 344, 349-350, 355, 359, 363, 367 373, 381, 389, 397, 403-404, 413-414 424, 431, 439, 443 447, 453 459
<b>Angle Unit, Offset Type</b>		OKUMA SAUTER EMAG	337 374, 382, 390, 405-406, 415-416 425, 432
<b>Angle Unit, 2-Axis</b>		MAZAK OKUMA SAUTER MORI SEIKI	274, 282, 320 368 407, 417 448, 454
<b>Angle Unit, adjustable 0-100°</b>		MAZAK OKUMA SAUTER EMAG MORI SEIKI	275, 283, 302, 310, 321 338, 345 375, 383, 391, 398, 408, 418 426, 433 455
<b>Y-Unit, adjustable ± 90°</b>		MAZAK	276, 284, 311, 322
<b>Saw Blade Holder</b>		MAZAK SAUTER EMAG	277, 285, 312, 323 376, 384, 392, 409, 419 427, 434
<b>Straight Unit, Twin Type</b>		MAZAK	286, 292
<b>Angle Unit, Twin Type</b>		MAZAK	287, 293

## Economical Complete Machining with Live Tools

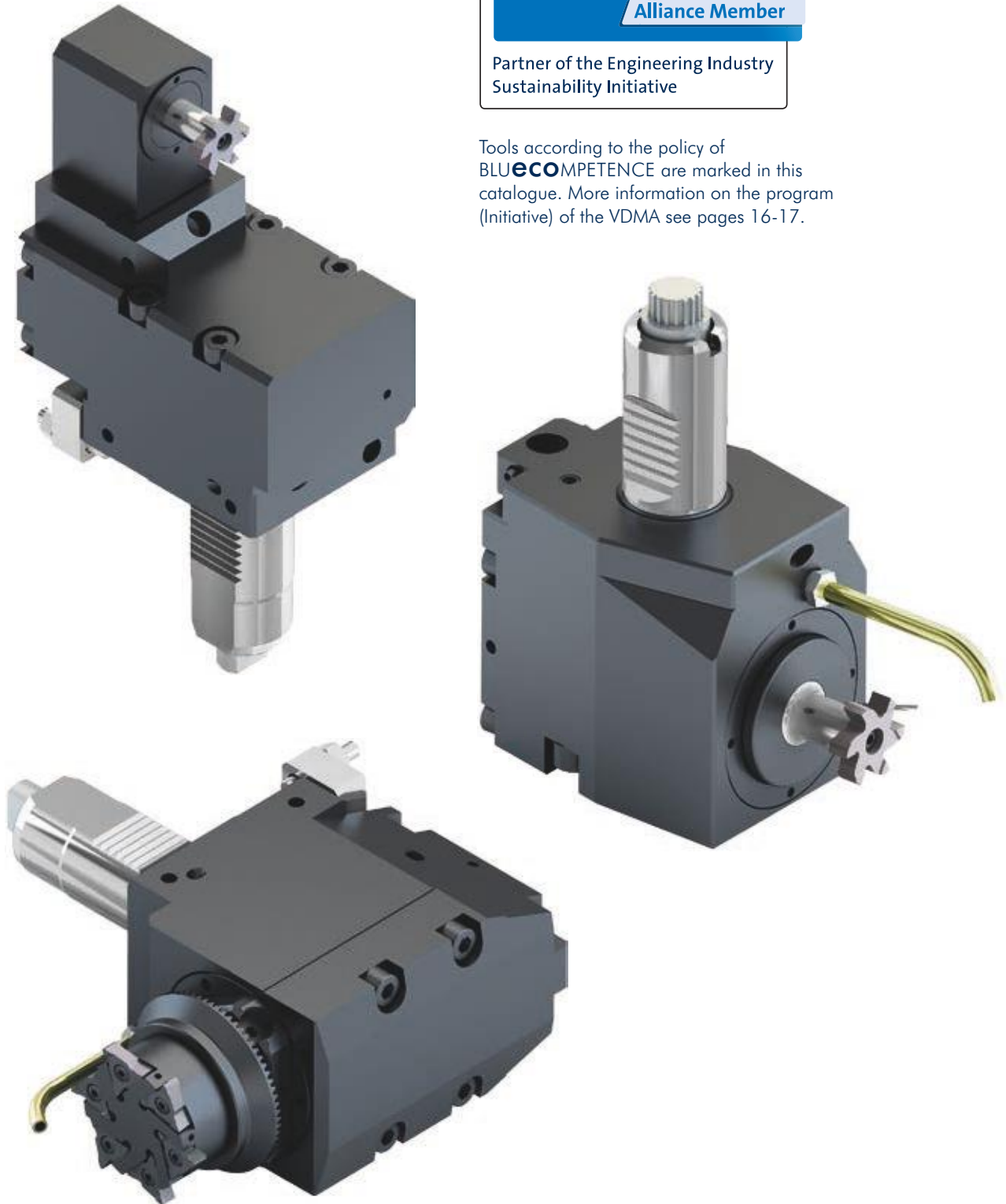
### mimatic® Tool Systems for Sustainability and Efficiency

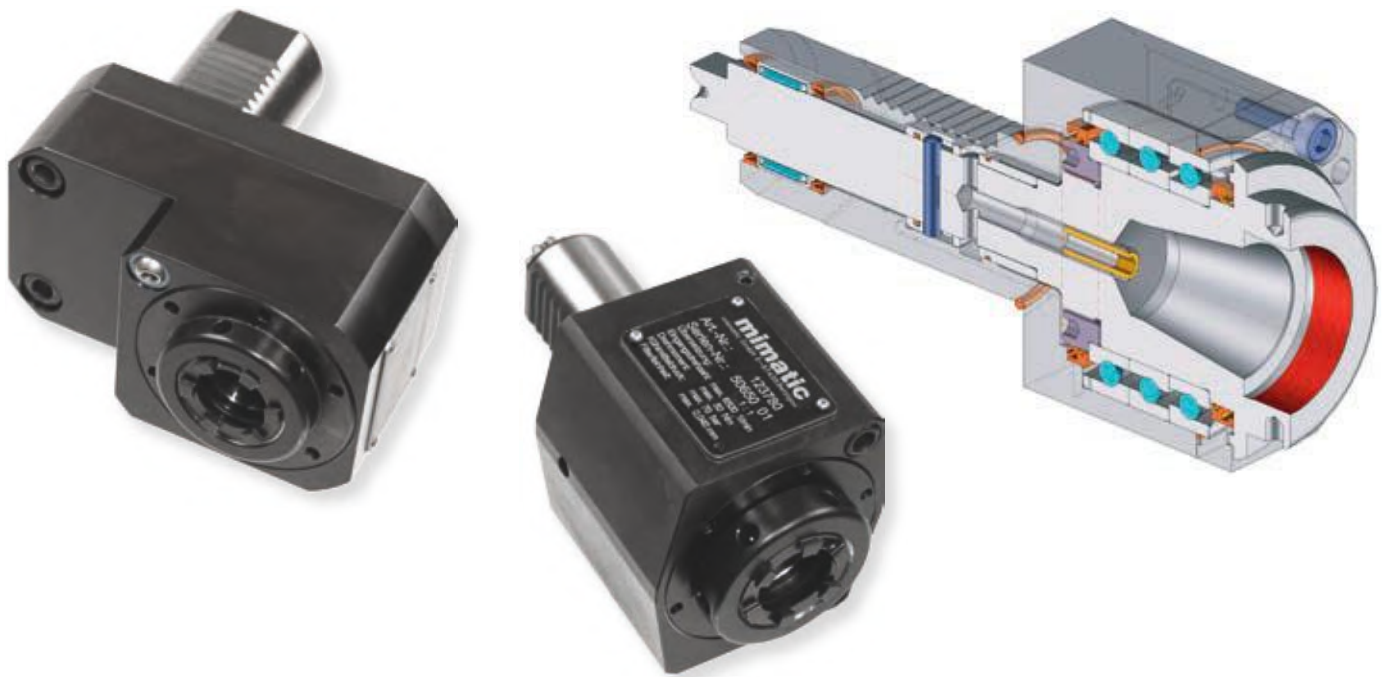
**BLUeCOMPETENCE**

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.





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

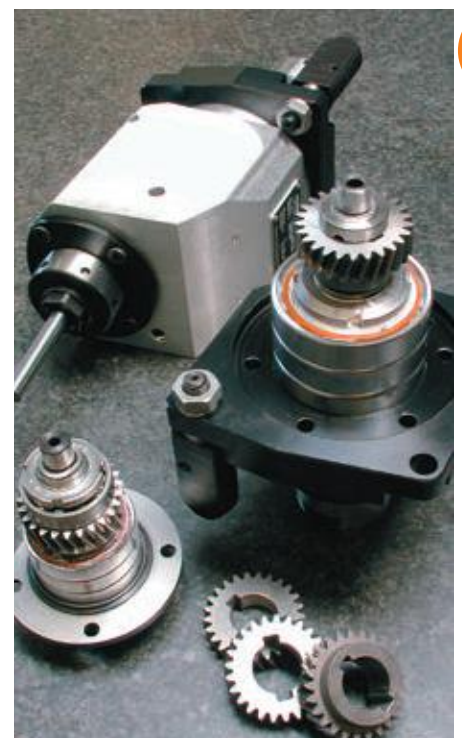
Our quality systems have been approved since 1998 and we are certified to DIN EN ISO 9001:2000.

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.



## 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

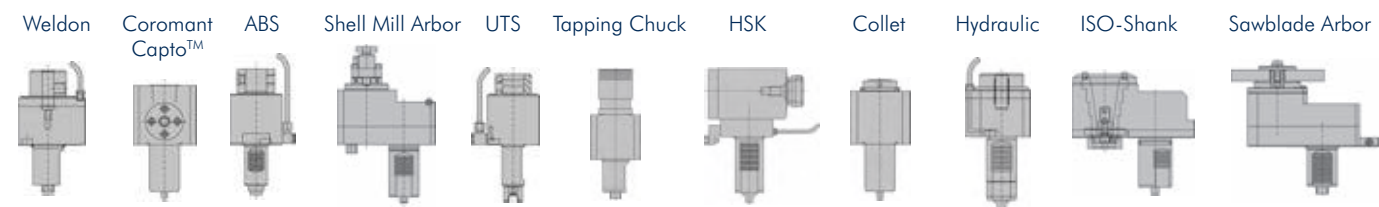
### Modular Toolholders in different Sizes for all Production Areas

- 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 470-482.**

## 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).**

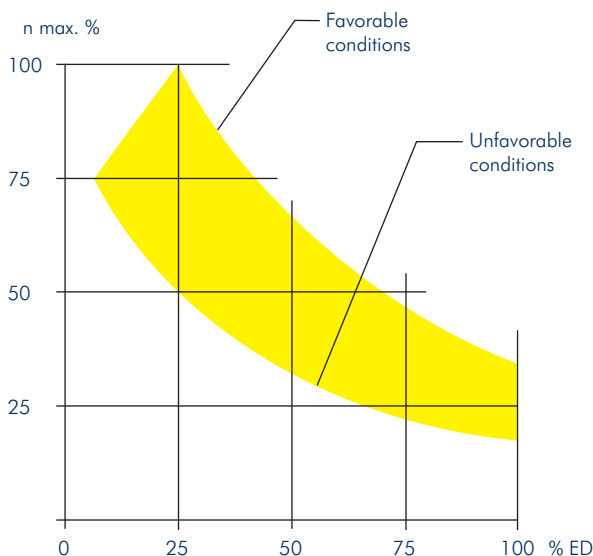
**Tools with internal coolant through the spindle (i.C.):** To avoid premature wear and damage to the seal system we recommend to filter the coolant to 40  $\mu\text{m}$  minimum.

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)

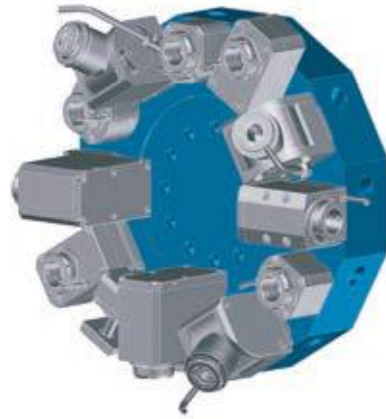


### Determination of the maximum permissible cycle times per minute $ED_{max}$

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.)

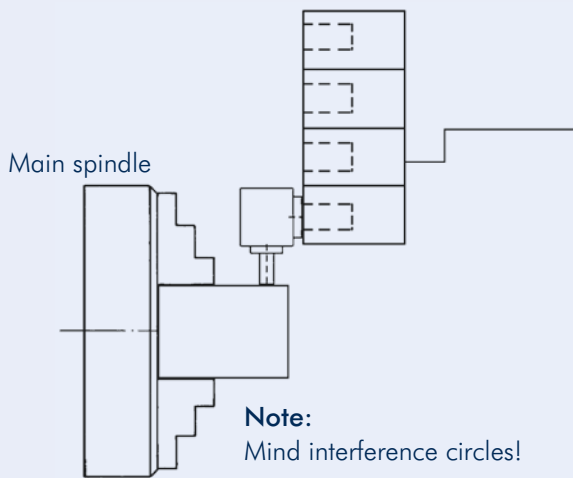
## Operation with Disc-type Turrets



**Tools are fixed on the the revolver face!**

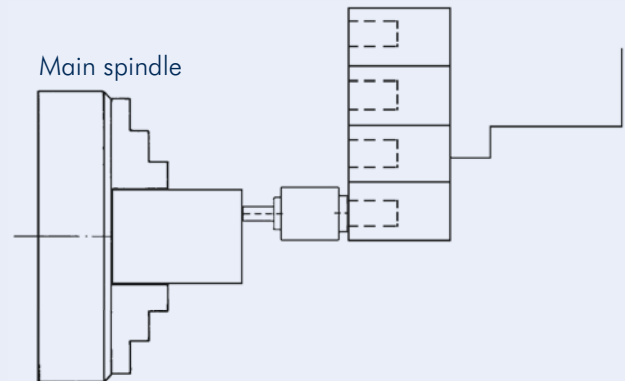
### Radial Operation

Radial tool holders with 90° angle

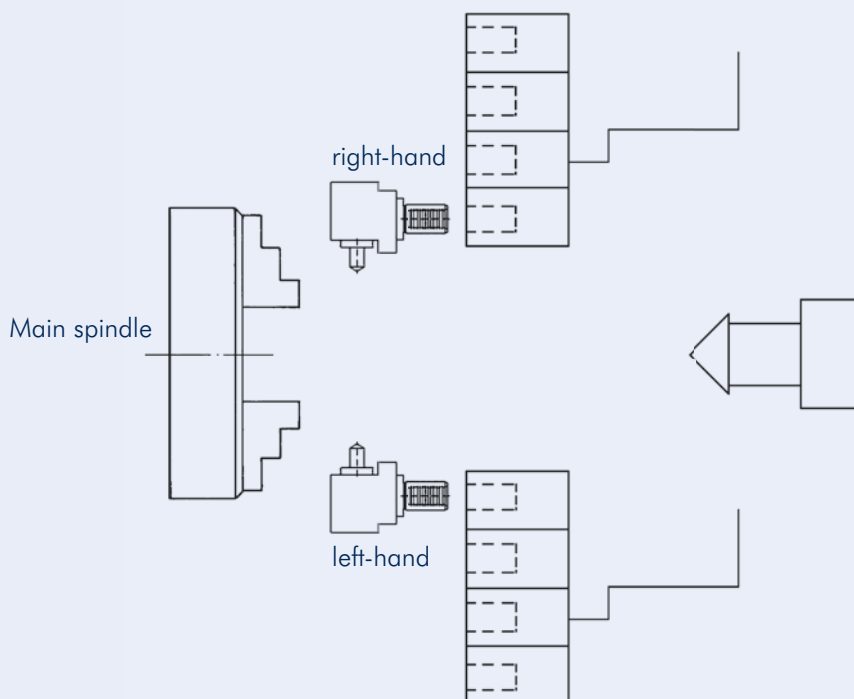


### Axial Operation

Axial tool holders straight version



### Right- and Left-hand Versions of the Driven Toolholders



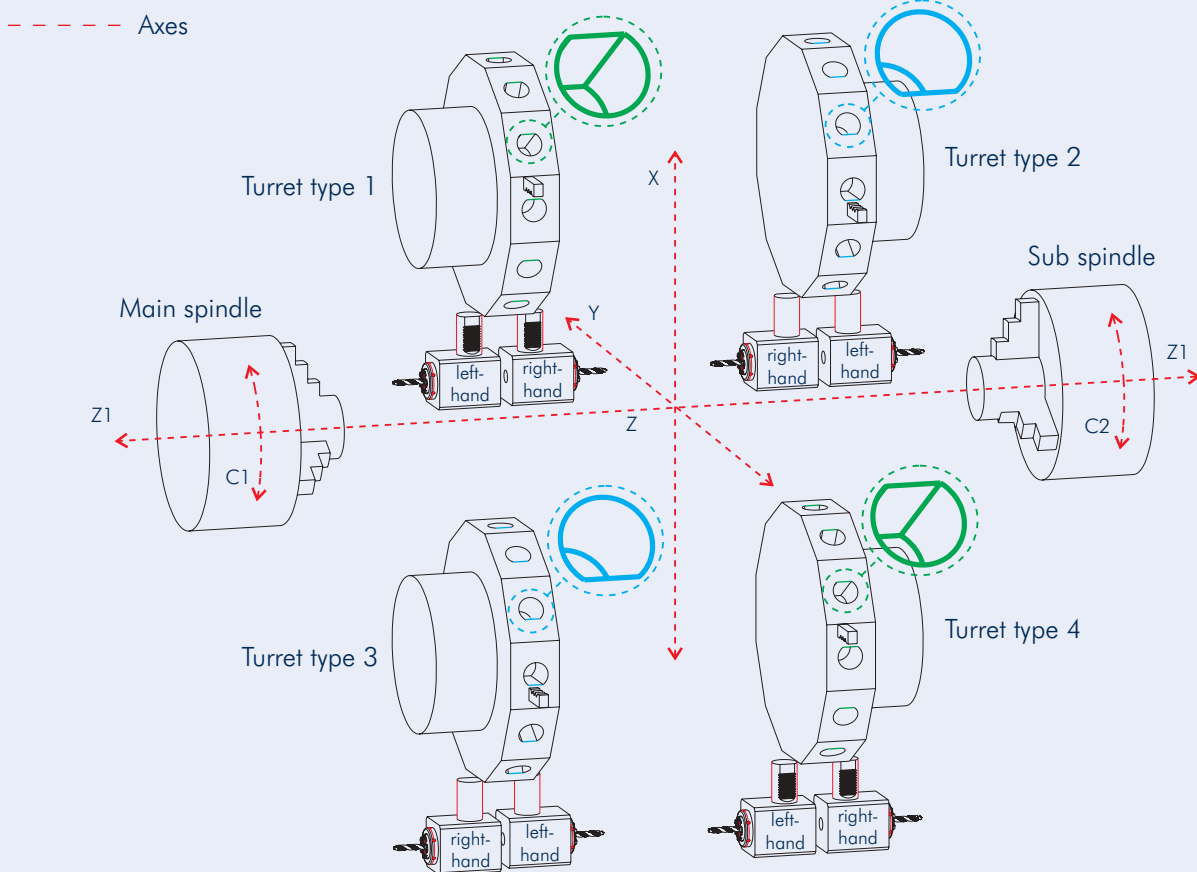
## Operation with Star-type Turrets



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

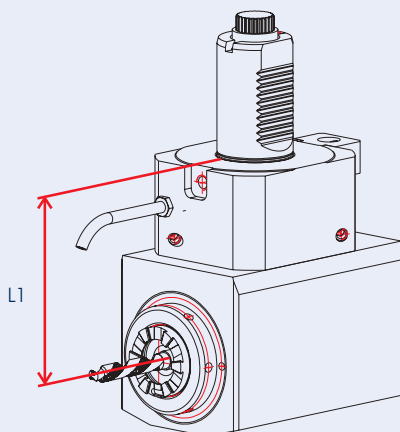
The orientation of the revolver to the spindle is important. Machines with Star-type Turrets often come with a sub spindle.

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



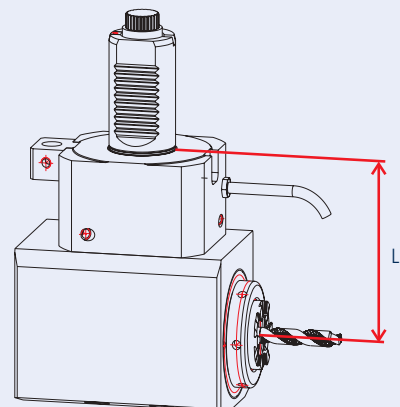
#### Left-hand Version

Please note dimension L1



#### Right-hand Version

Please note dimension L1



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



# Mazak

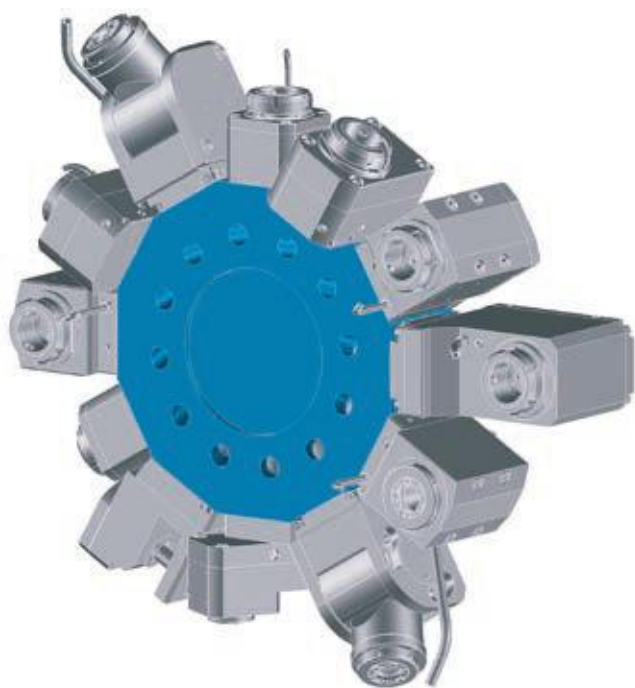
## QUICK TURN NEXUS 100 + SUPER QUICK TURN 10

### Data

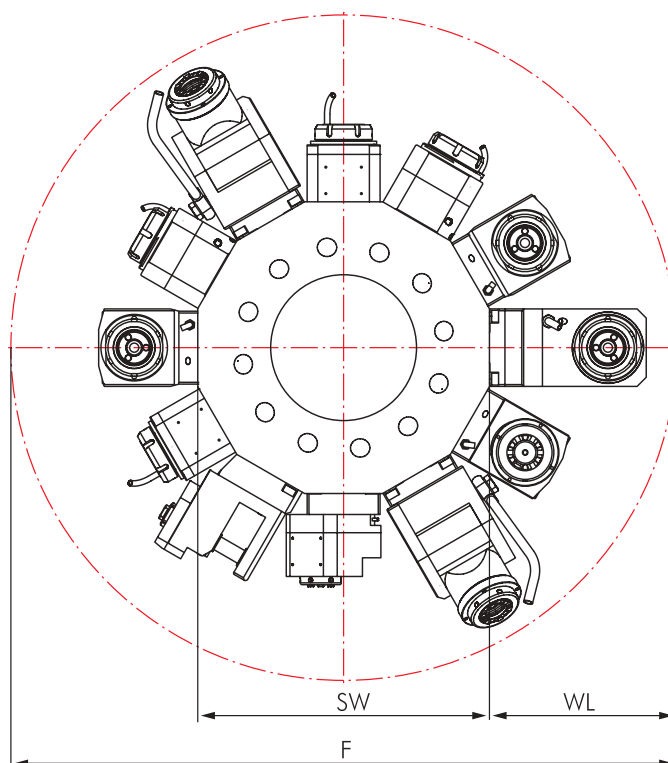
Machine type Series	Turret Stations
<b>QTNX 100/100-II</b> M / MS / MY / MSY	12
<b>QTNX 200</b> M / MS / MY / MSY	16
<b>QTNX 250</b> M / MS / MY / MSY	16
<b>SQT 10</b> M / MS	12
<b>SQT 100</b> M / MS	12
<b>SQT 15</b> M / MS	16
<b>SQT 200</b> M / MS	16
<b>SQT 250</b> M / MS	16



### Star-type Turret VDI 40



### Interference Circles



Machine type Series	F	SW	WL
<b>QTNX 100</b>	564	286	139
<b>QTNX 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**

**Live Tools**

	Page		Page
<b>Straight Unit, Offset Type</b>	272		
		<b>Angle Unit, adjustable 0-100°</b>	275
			
<b>Angle Unit</b>	273		
		<b>Y-Unit, adjustable ± 90°</b>	276
			
<b>Angle Unit, 2-Axis</b>	274		
		<b>Saw Blade Holder</b>	277
			

**Options and Accessories**

<b>mi Toolholders</b>		mi System Description Toolholders Accessories	471 473-477 478-479
<b>Static Toolholders for MAZAK</b>		Static Toolholders Accessories	499-509 510-511
<b>Accessories</b>		Collets DIN 6499 Threading Collets Wrenches Clamping Nuts Sleeves and Bushings	526-527 528-529 525 525 531



**Delivery information**

Driven toolholders with mi quick-change interface are supplied with operating wrench (see spare parts on page 479).  
Driven toolholders with other interfaces are supplied without clamping wrench (see accessories on page 525).

# Straight Unit, Offset and without Offset Type

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

for Manufacturer

**Mazak**

for Machine type

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

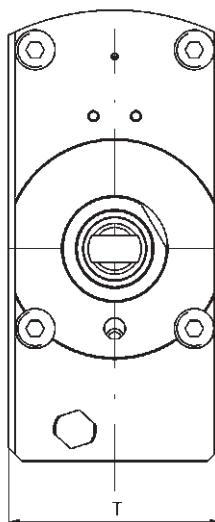
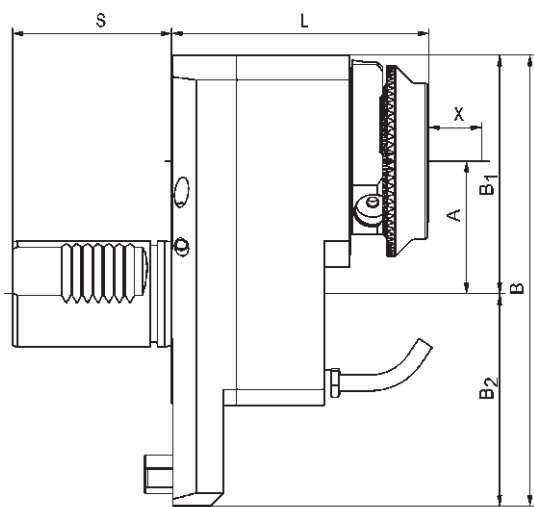
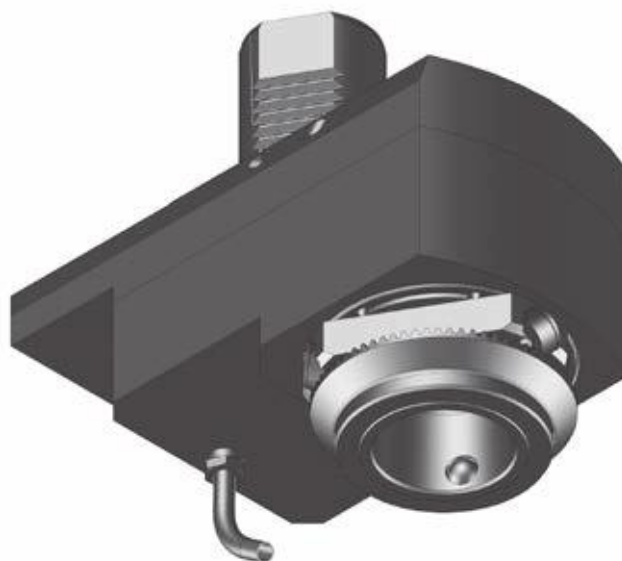
QTNX	SQT
100 M-12x	10 M/MS-12x
200 M/MS-16x	100 M/MS-12x
250 M/MS-16x	15 M/MS-16x
	200 M/MS-16x
	250 M/MS-16x

Data

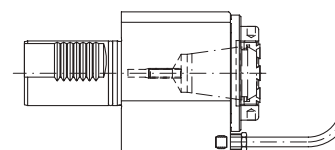
Turret type	Star-type Turret
Shank	VDI 40
Drive	Tang
SW	10 mm

Modular Interfaces

**mimaticMi**



Without offset:



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	80	↺ ↻
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	75	↺ ↻
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	75	↺ ↻

# Angle Unit

Connectable to second axis with **BLUECOMPETENCE** » mimatic mi » PolyMILL » TriMILL » TrioCut » PolyREAM

for Manufacturer

**Mazak**

for Machine type

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

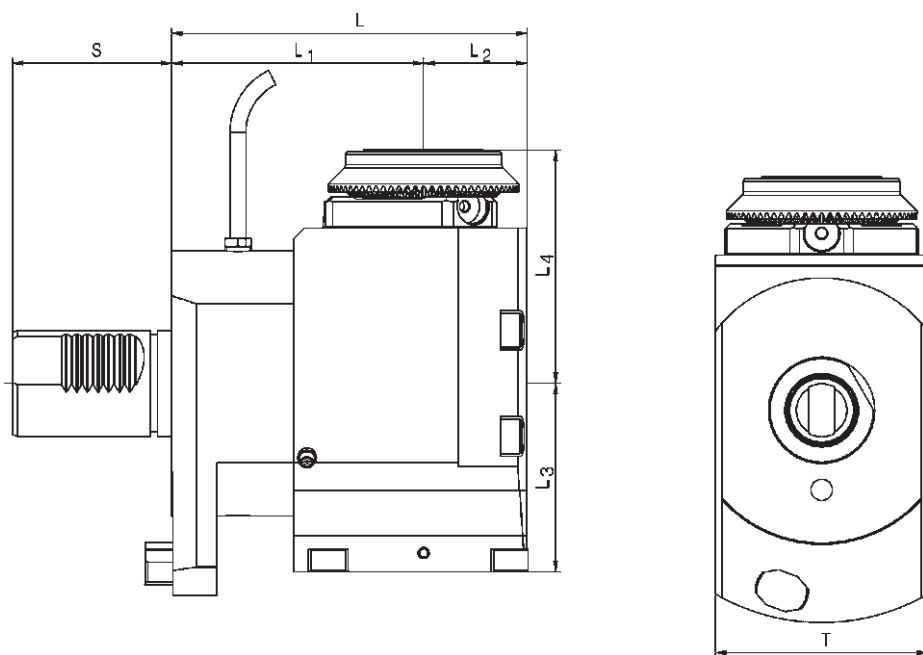
QTNX	SQT
100 M-12x	10 M/MS-12x
200 M/MS-16x	100 M/MS-12x
250 M/MS-16x	15 M/MS-16x
	200 M/MS-16x
	250 M/MS-16x

Data

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

Modular Interfaces

**mimaticMi**



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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 530    \*\* Type for sub-spindle

# Angle Unit, 2-Axis

for Manufacturer

**Mazak**

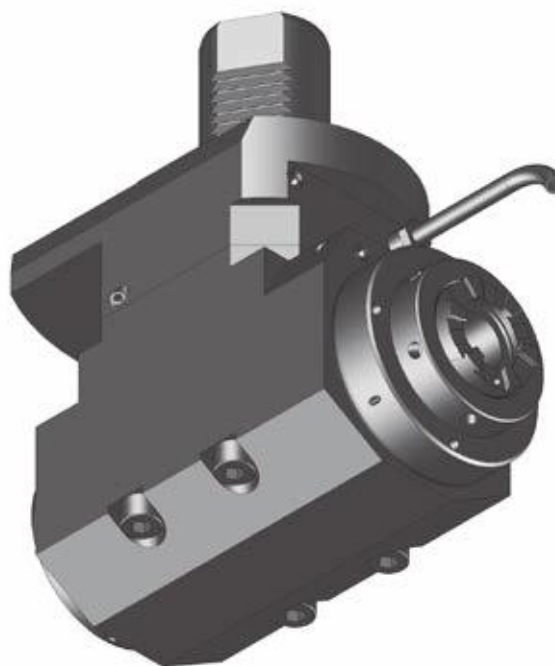
for Machine type

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

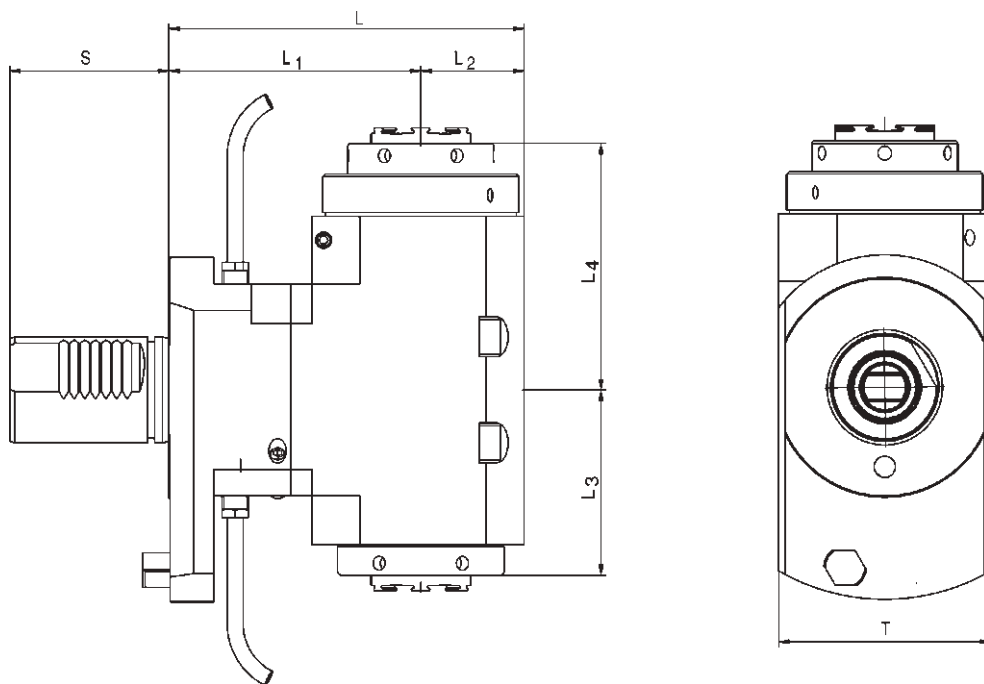
<b>QTNX</b>	<b>SQT</b>
100 M-12x	10 M/MS-12x
200 M/MS-16x	100 M/MS-12x
250 M/MS-16x	15 M/MS-16x
	200 M/MS-16x
	250 M/MS-16x

Data

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



 **Coolant pressure max. 30 bar**

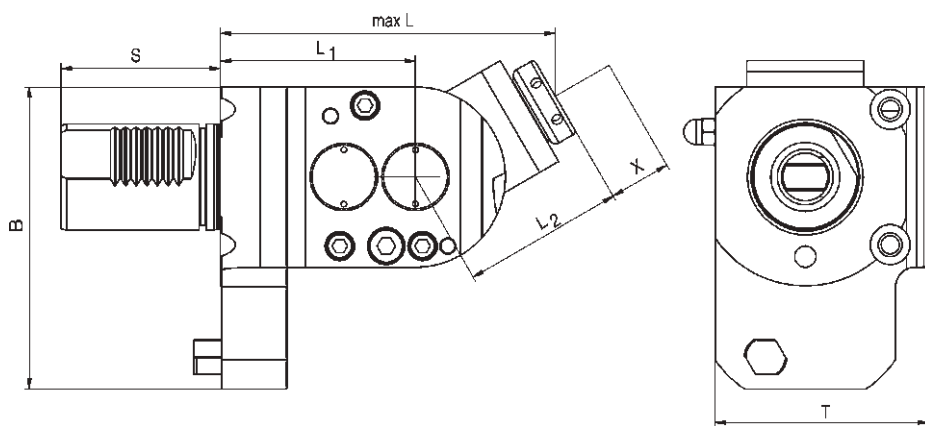
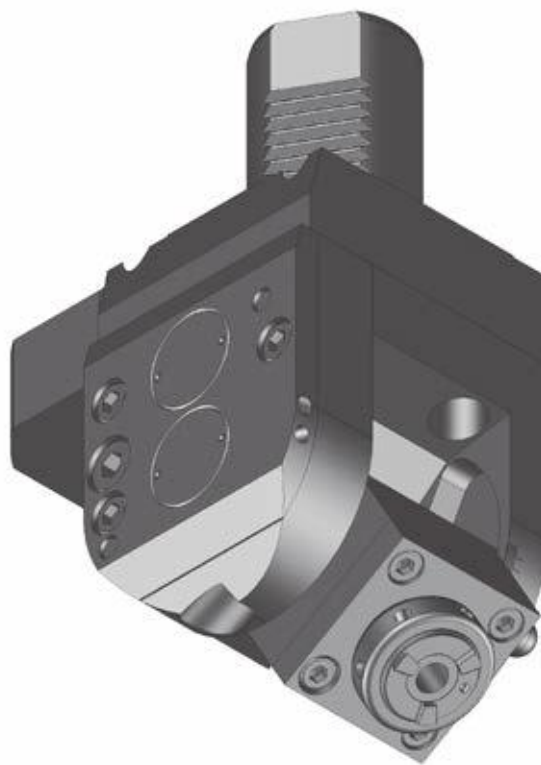


Order No.	Tool holder	Clamping range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	L mm	L1 mm	L2 mm	L3 mm	L4 mm	S mm	T mm	
124649**	2x ER 25	0,5-16	25 Nm	6.500 / 6.500	i = 1:1	external	134	100	34	62	62	60	70	-
167306	2x ER 32*	1,0-20	50 Nm	6.500 / 6.500	i = 1:1	internal	134	95	39	70	93	60	80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

# Angle Unit, Adjustable 0-100°

Compatible machines with **BLUECOMPETENCE** » PolyMILL » TriMILL » TrioCut » PolyREAM

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



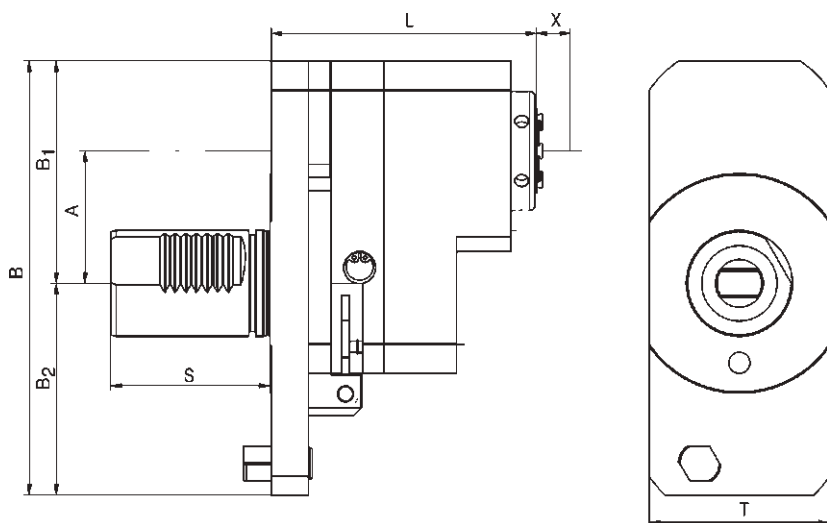
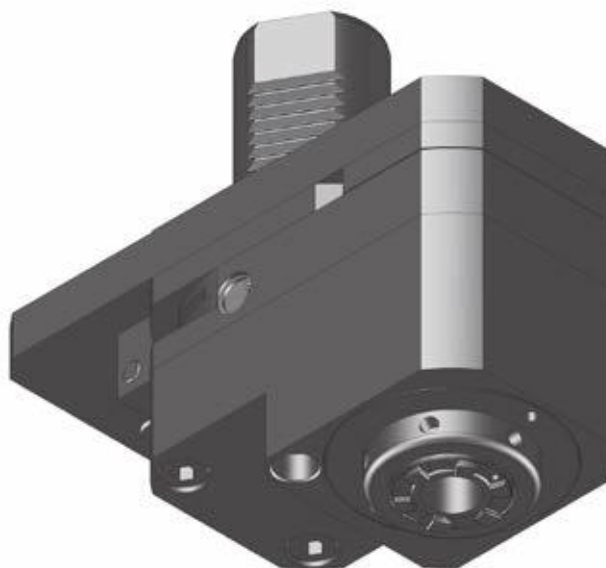
13

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 $\pm 90^\circ$

Connectable accessories with **BLUECOMPETENCE** » PolyMILL » TriMILL » TrioCut » PolyREAM

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

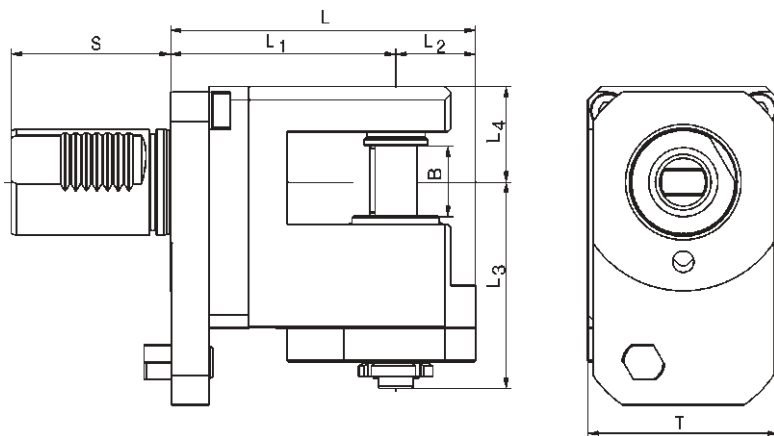
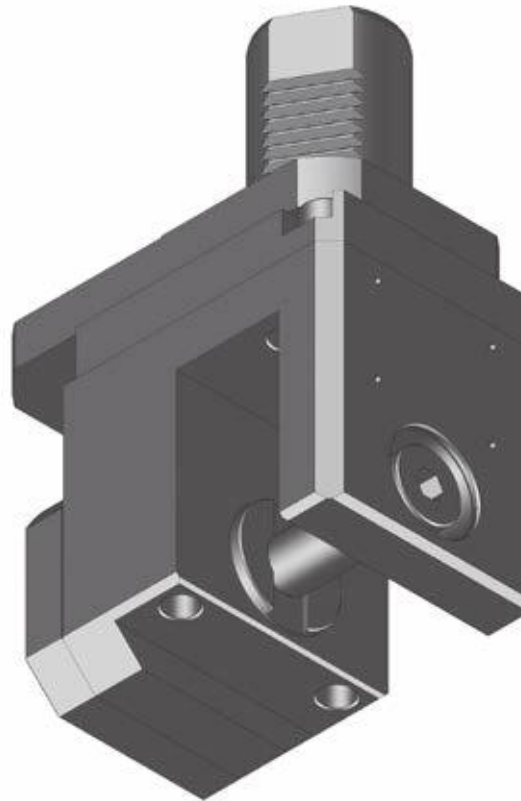


Order No.	Tool holder	Clamping range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	X mm	L mm	A mm	B mm	S mm	T mm	Rotating direction
124120	ER 25	0,5-16	25 Nm	6.500 / 6.500	i = 1:1	external	39	100	50	164	60	68	



## Saw Blade Holder

for Manufacturer	
<b>Mazak</b>	
for Machine type	
<b>NEXUS QTNX 100/100-II</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.	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

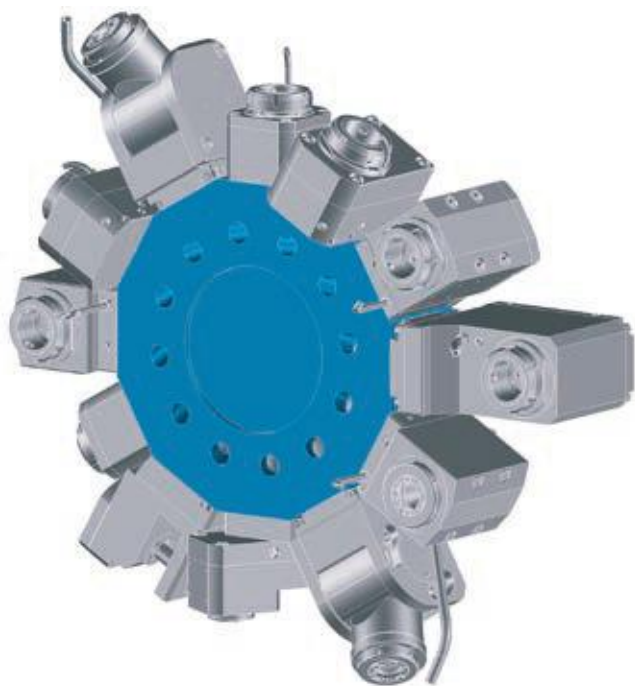
## QUICK TURN NEXUS 200/250, SUPER QUICK TURN 15/18, SUPER QUADREX 200/250

### Data

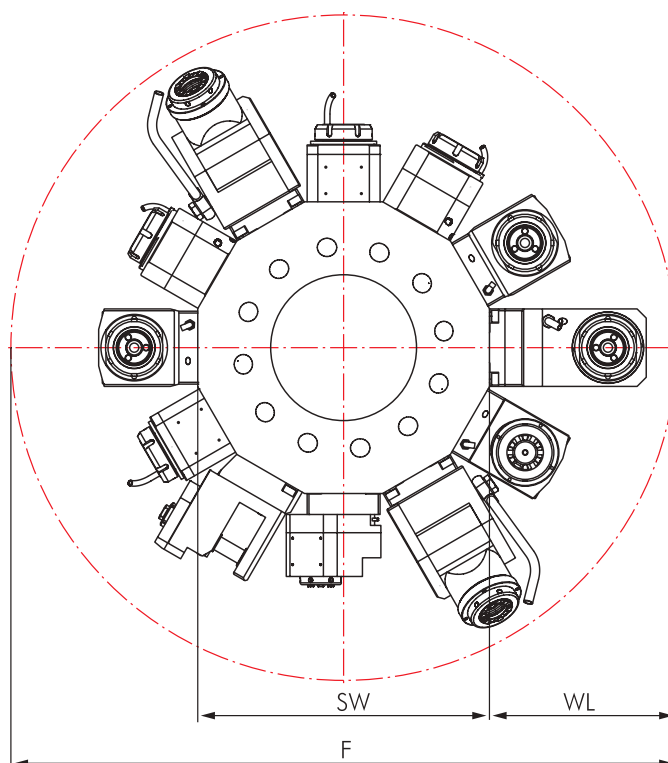
Machine type Series	Turret Stations
<b>QTNX 200/200-II</b> M / MY / MS / MSY	12
<b>QTNX 250/250-II</b> M / MY / MS / MSY	12
<b>SQ 200/250</b>	12
<b>SQT 15</b> M / MS	12
<b>SQT 18</b> M / MS	12
<b>SQT 200</b> M / MS	12
<b>SQT 250</b> M / MS	12



### 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

Compatible machines with **BLUECOMPETENCE** » mimatic mi » PolyMILL » TriMILL » TrioCut » PolyREAM

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

### Live Tools

	Page		Page
<b>Straight Unit, Offset Type</b>	280		
		<b>Y-Unit, adjustable ± 90°</b>	284
			
<b>Angle Unit</b>	281		
		<b>Saw Blade Holder</b>	285
			
<b>Angle Unit, 2-Axis</b>	282		
		<b>Straight Unit, Twin type</b>	286
			
<b>Angle Unit, adjustable 0-100°</b>	283		
		<b>Angle Unit, Twin type</b>	287
			

### Options and Accessories

<b>mi Toolholders</b>		mi System Description Toolholders Accessories	471 473-477 478-479
<b>Static Toolholders for MAZAK</b>		Static Toolholders Accessories	499-509 510-511
<b>Accessories</b>		Collets DIN 6499 Threading Collets Wrenches Clamping Nuts Sleeves and Bushings	526-527 528-529 525 525 531



#### Delivery information

Driven toolholders with mi quick-change interface are supplied with operating wrench (see spare parts on page 479).  
Driven toolholders with other interfaces are supplied without clamping wrench (see accessories on page 525).

# 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 200/250, SQT 15/18 + SUPER QUADREX 200/250**

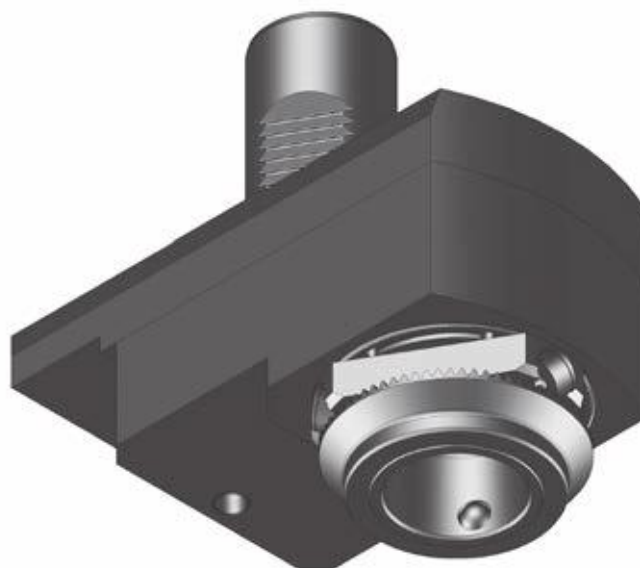
QTNX	SQT
200 M/MS-12x	15 M/MS-12x
250 M/MS-12x	18 M/MS-12x
	200 M/MS-12x
	250 M/MS-12x

Dimensions

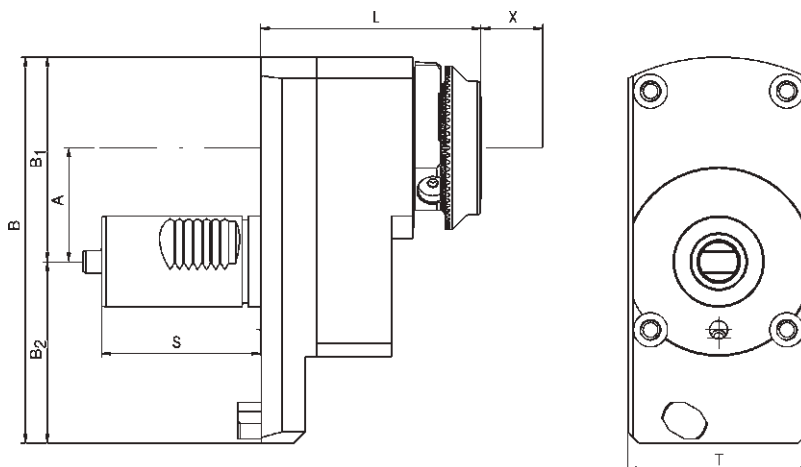
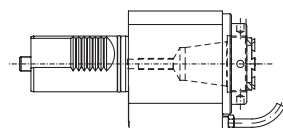
Turret type	Star-type Turret
Shank	VDI 40
Drive	Tang
SW	10 mm

Modular Interfaces

**mimaticMi**  
**mimatic capto**



Without offset:



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:															
176039	ER 32	1,0-20	80 Nm	6.500/6.500	i = 1:1	external	85,0	85,0	0	87	38	49	70	75	↺ ↻
124256	ER 32*	1,0-20	80 Nm	6.500/6.500	i = 1:1	internal	85,0	85,0	0	87	38	49	70	75	↺ ↻
123895	C 4	-	80 Nm	6.500/6.500	i = 1:1	external	90,0	80,5	0	102	42	60	70	84	↺ ↻

# Angle Unit

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

for Manufacturer

**Mazak**

for Machine type

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

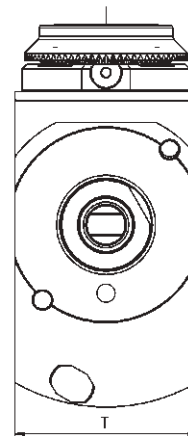
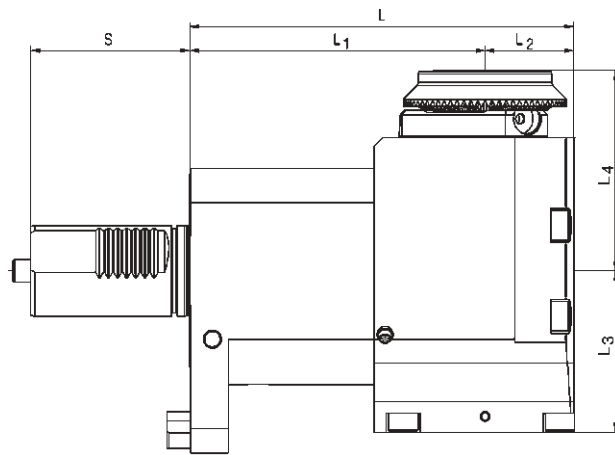
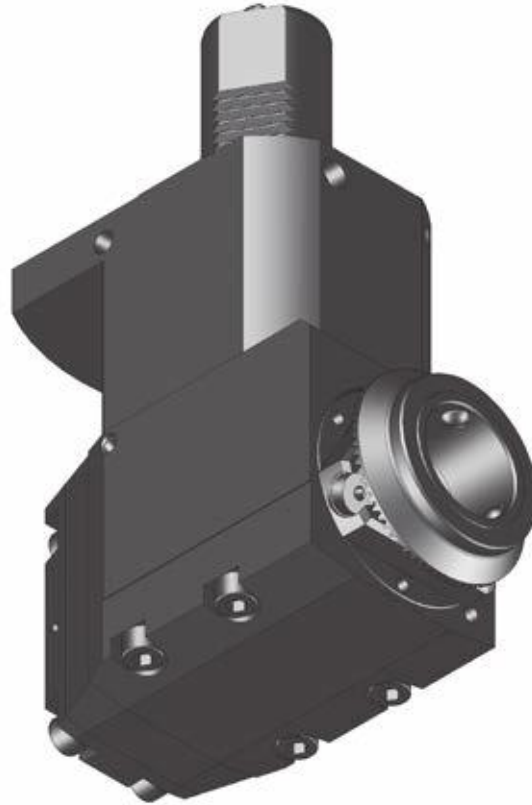
QTNX	SQT
200 M/MS-12x	15 M/MS-12x
250 M/MS-12x	18 M/MS-12x
	200 M/MS-12x
	250 M/MS-12x

Dimensions

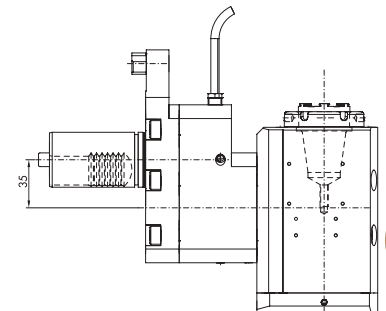
Turret type	Star-type Turret
Shank	VDI 40
Drive	Tang
SW	10 mm

Modular Interfaces

**mimaticMi**  
**mimatic capto**



With offset 35 mm:



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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 530 \*\* Type for sub-spindle

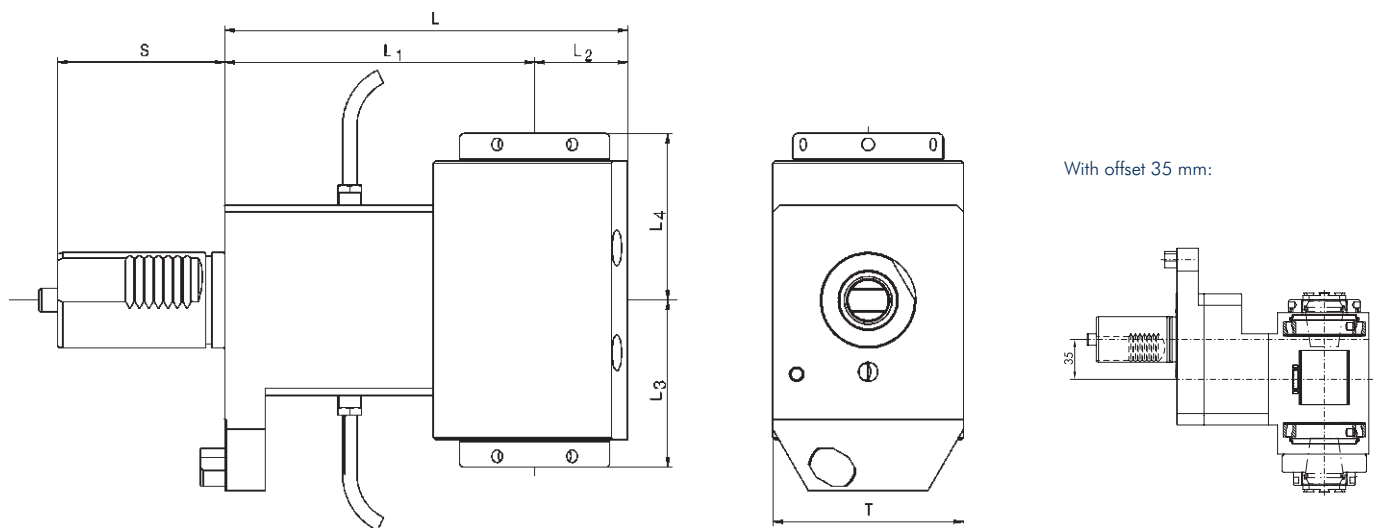
# Angle Unit, 2-Axis

Compatible machines with **BLUECOMPETENCE** » PolyMILL » TriMILL » TrioCut » PolyREAM

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



 **Coolant pressure max. 30 bar**

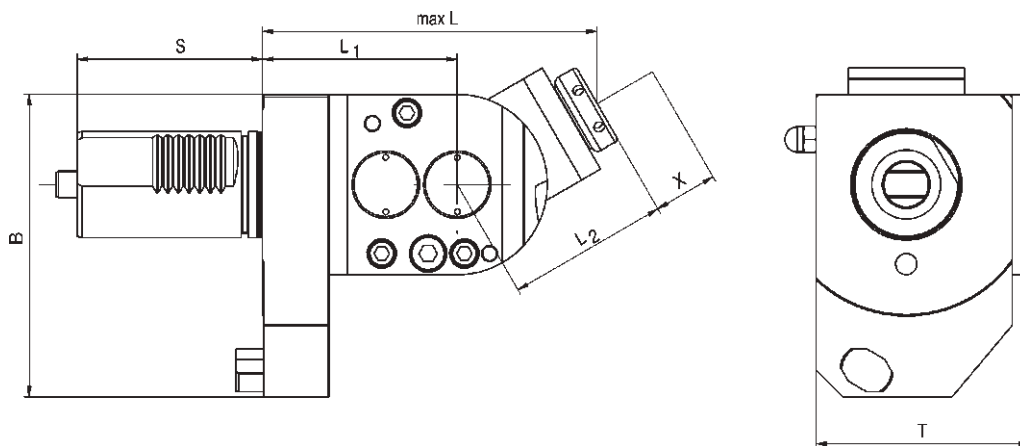
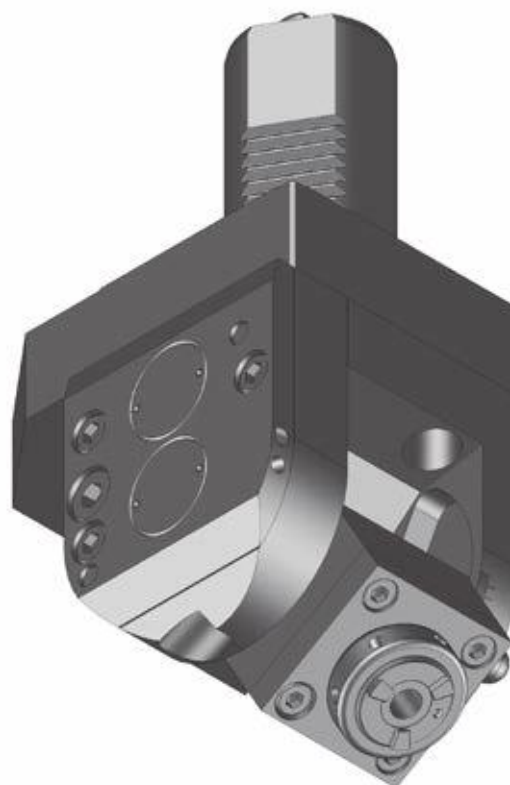


Order No.	Tool holder	Clamping range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	L mm	L1 mm	L2 mm	L3 mm	L4 mm	S mm	T mm
124632**	2x ER 25	0,5-16	25 Nm	6.500 / 6.500	i = 1:1	external	164	130	34	62	62	70	70
124638	2x ER 32	1,0-20	70 Nm	6.500 / 6.500	i = 1:1	external	169	130	39	70	70	70	80
133725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

# Angle Unit, Adjustable 0-100°

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

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



13

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	↺ ↻
125029**	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	↺ ↻

\*\* Type for sub-spindle



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

for Manufacturer

**Mazak**

for Machine type

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

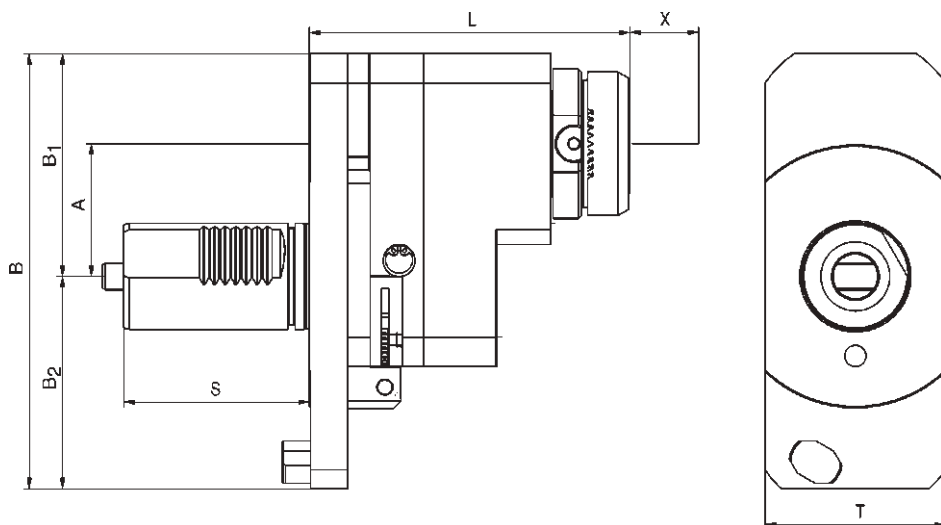
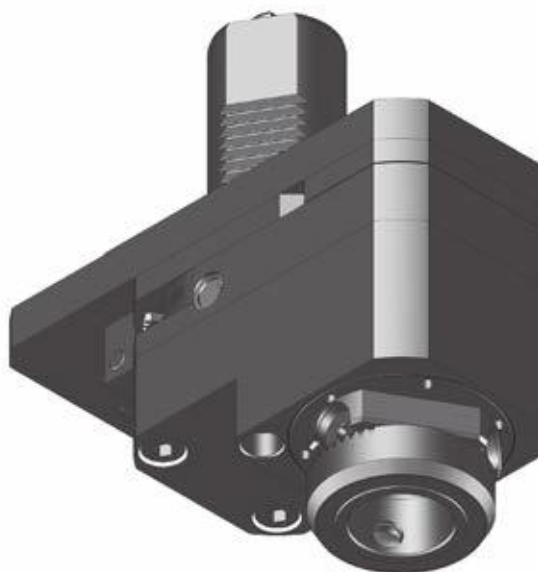
QTNX	SQT
200 M/MS-12x	15 M/MS-12x
250 M/MS-12x	18 M/MS-12x
	200 M/MS-12x
	250 M/MS-12x

Dimensions

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

Modular Interfaces

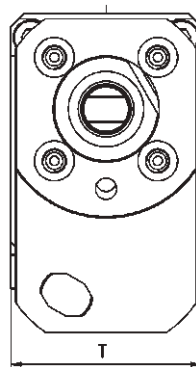
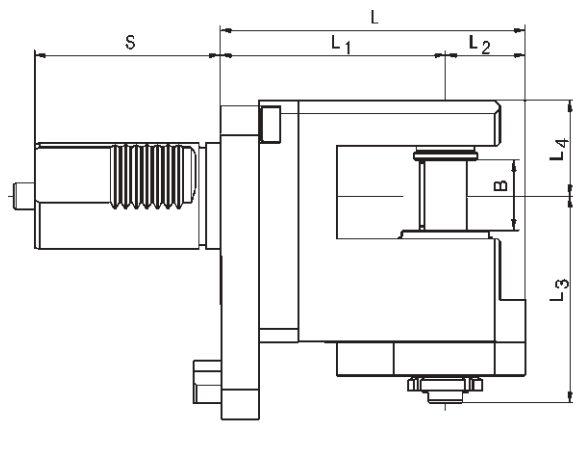
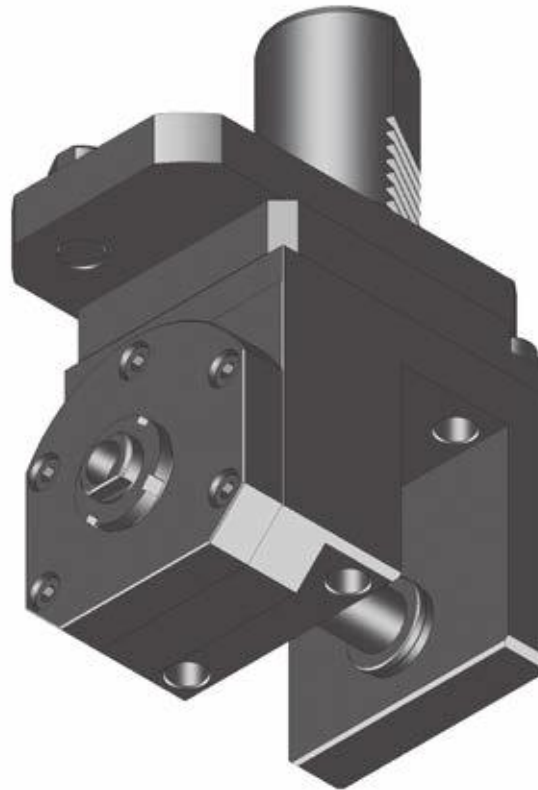
**mimaticMi**



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

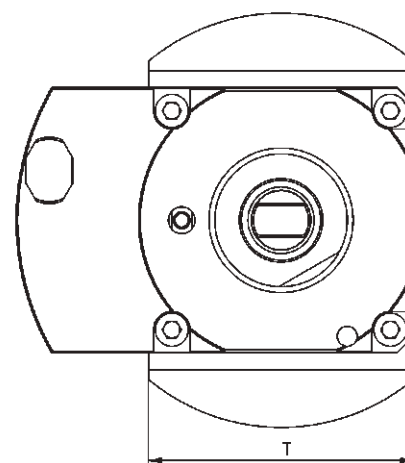
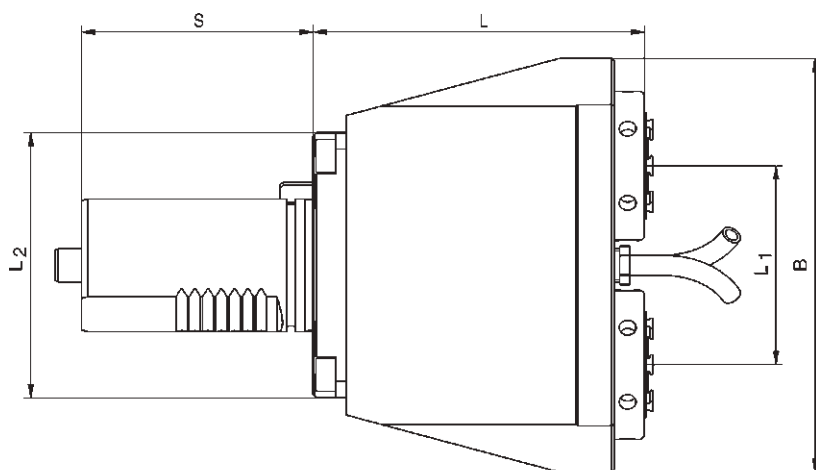
\* Saw blade diameter max. = 80 mm

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

# Straight Unit, Twin Type

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

for Manufacturer	
<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

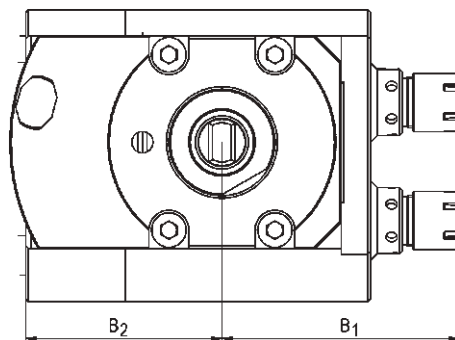
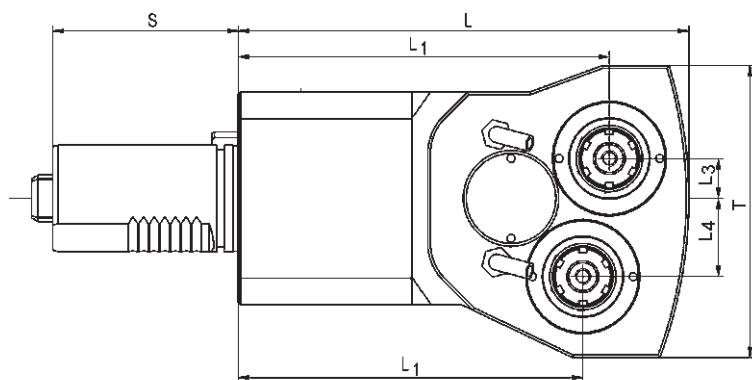
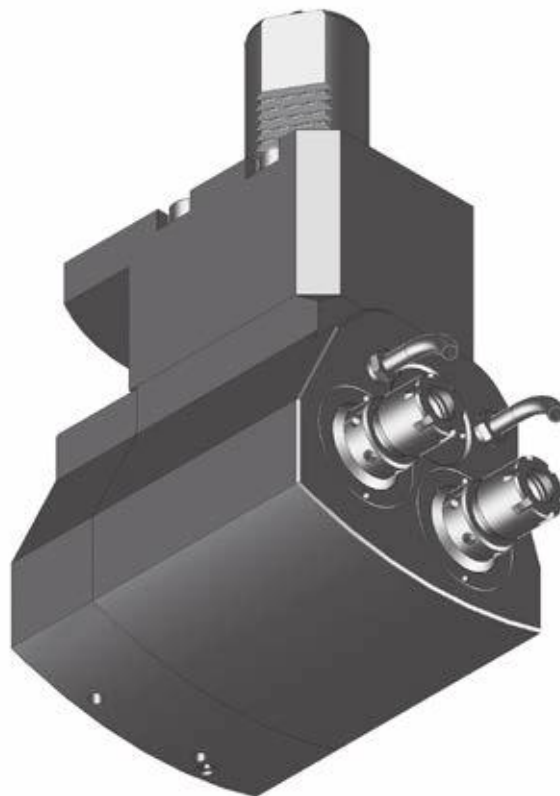


Order No.	Tool Holder	Clamping Range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	L mm	L1 mm	L2 mm	B mm	S mm	T mm	Rotating direction
169636	2x ER 25*	0,5-16	2x 15 Nm	6.500 / 6.500	i = 1:1	external	100	60	80	125	70	80	↺ ↻
171059	2x ER 25*	0,5-16	2x 15 Nm	6.500 / 6.500	i = 1:1	internal	100	60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

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

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



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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 530

# Mazak

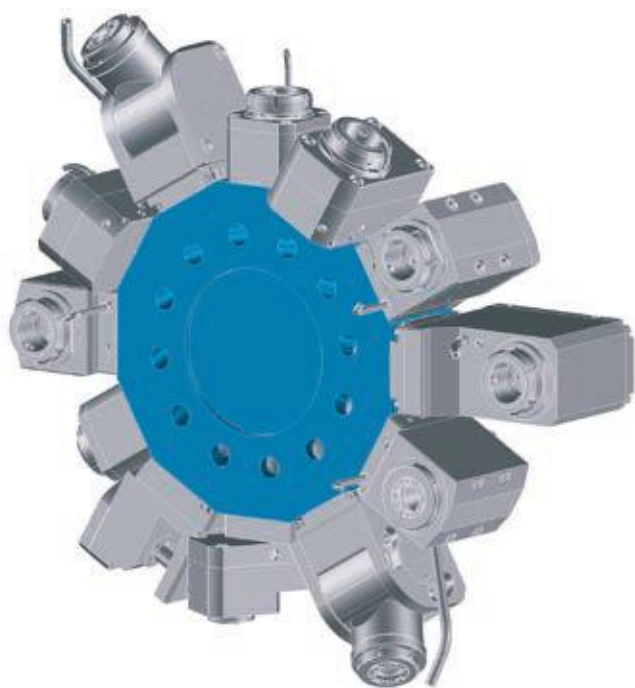
## QUICK TURN NEXUS 300/350/400/450 + SUPER QUICK TURN 28/30

### Data

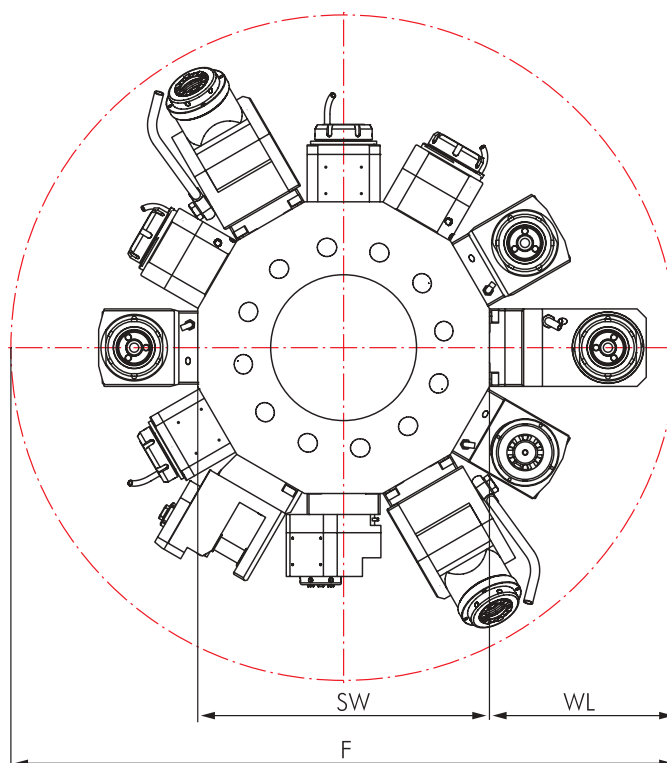
Machine type Series	Turret Stations
<b>QTNX 300/300-II M / MY</b>	12
<b>QTNX 350/350-II M / MY</b>	12
<b>QTNX 400/400-II M</b>	12
<b>QTNX 450/450-II M</b>	12
<b>SQT 28 M / MS</b>	12
<b>SQT 30 M / MS</b>	12
<b>SQT 300 M / MS</b>	12



### 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**

**Live Tools**

		Page			Page
<b>Straight Unit, Offset Type</b>		290	<b>Straight Unit, Twin type</b>		292
<b>Angle Unit</b>		291	<b>Angle Unit, Twin type</b>		293

**Options and Accessories**

<b>mi Toolholders</b>		mi System Description Toolholders Accessories	471 473-477 478-479
<b>Static Toolholders for MAZAK</b>		Static Toolholders Accessories	499-509 510-511
<b>Accessories</b>		Collets DIN 6499 Threading Collets Wrenches Clamping Nuts Sleeves and Bushings	526-527 528-529 525 525 531



**Delivery information**

Driven toolholders with mi quick-change interface are supplied with operating wrench (see spare parts on page 479).  
Driven toolholders with other interfaces are supplied without clamping wrench (see accessories on page 525).

# Straight Unit, Offset Type

Compatible machines with **BLUECOMPETENCE** » mimatic mi » PolyMILL » TriMILL » TrioCut » PolyREAM

for Manufacturer

**Mazak**

for Machine type

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

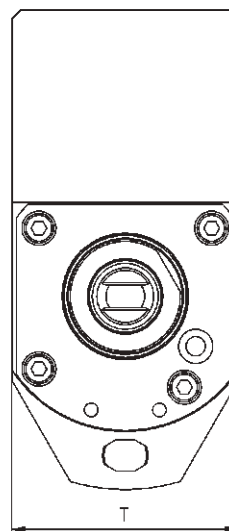
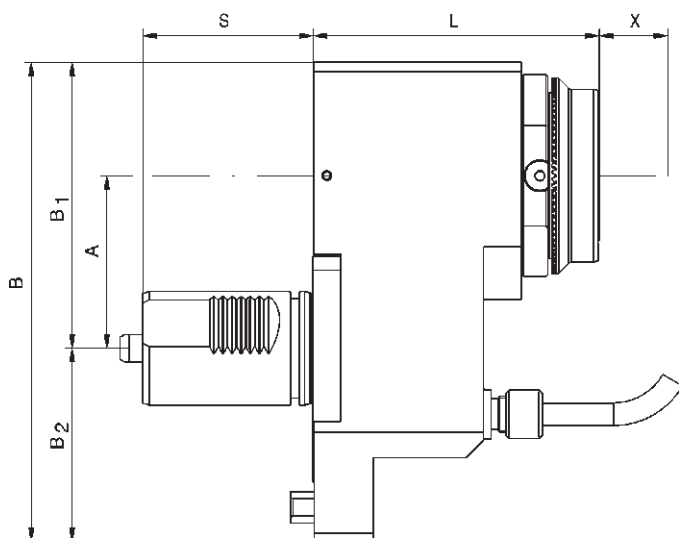
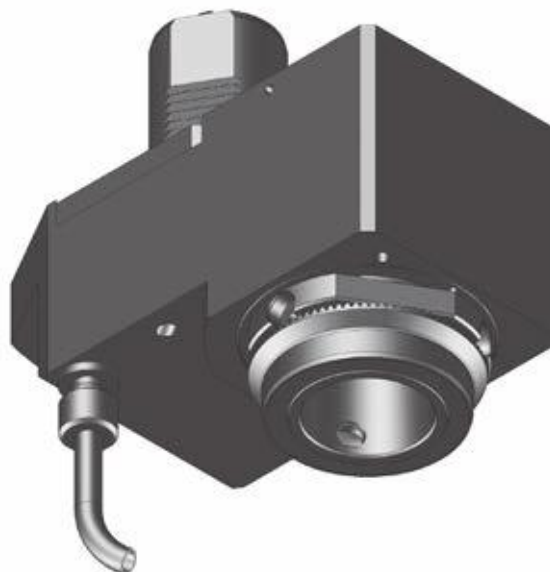
QTNX	SQT
300 M/MY-12x	28 M/MS-12x
350 M/MY-12x	30 M/MS-12x
400 M-12x	300 M/MS-12x
450 M-12x	

Dimensions

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

Modular Interfaces

**mimaticMi**  
**mimatic capto**



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	-	100 Nm	6.500 / 6.500	i = 1:1	internal	108,0	112	-	146,5	-	-	75	100	↺ ↻

# Angle Unit

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

for Manufacturer

**Mazak**

for Machine type

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

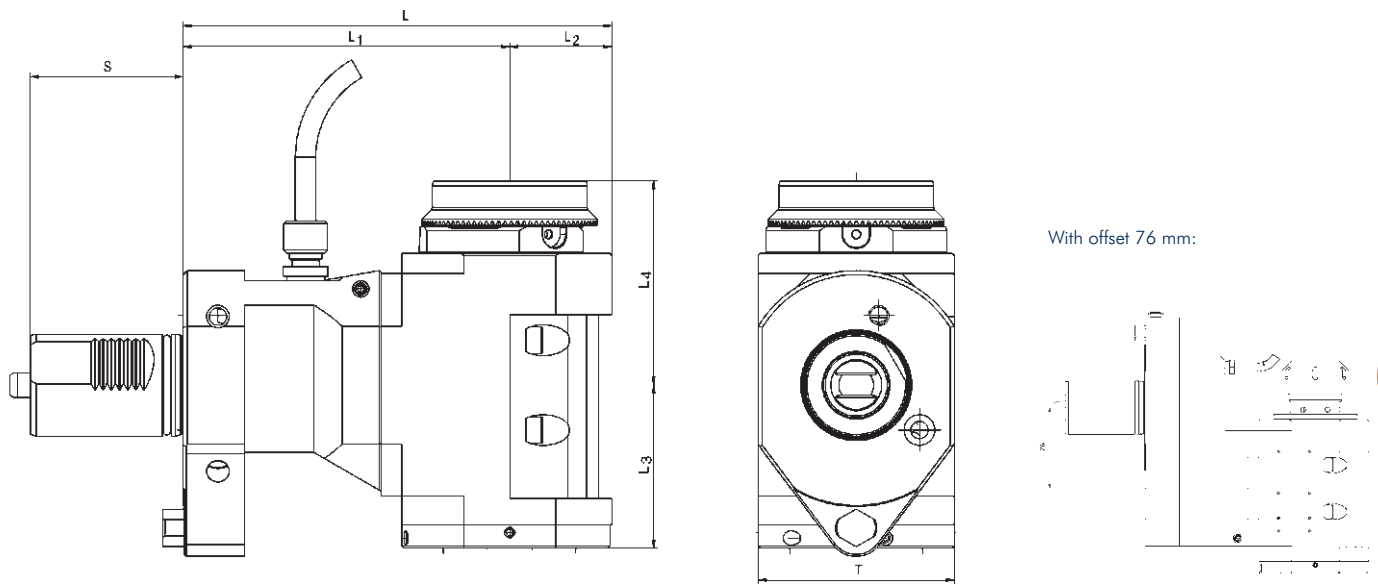
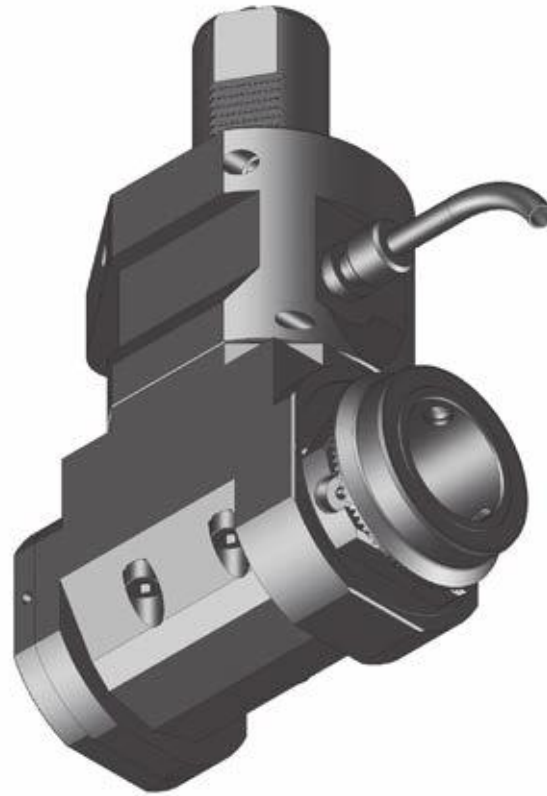
QTNX	SQT
300 M/MY-12x	28 M/MS-12x
350 M/MY-12x	30 M/MS-12x
400 M-12x	300 M/MS-12x
450 M-12x	

Dimensions

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

Modular Interfaces

**mimaticMi**  
**mimatic capto**



13

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 offset 76 mm:														
180586**	ER 40	2-30	100 Nm	6.500 / 6.500	i = 1:1	external	210	160	50	155	43,5	75	96	↺ ↻
With twin axe:														
173233	2x ER 32	1-20	50 Nm	6.500 / 6.500	i = 1:1	external	199	160	39	70	70	75	96	-

\* With clamping nuts with sealing, seals see page 530

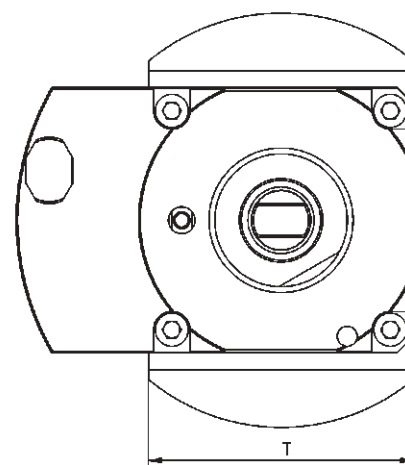
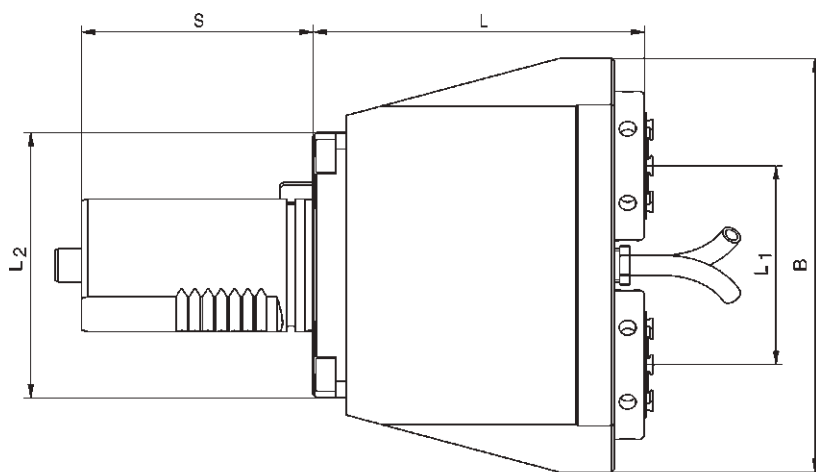
\*\* Type for sub-spindle



# Straight Unit, Twin Type

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

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

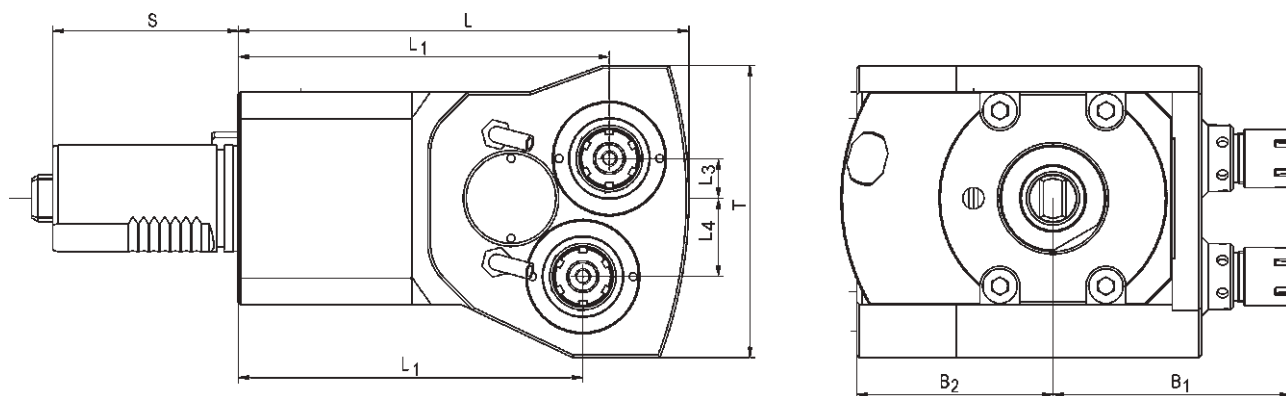
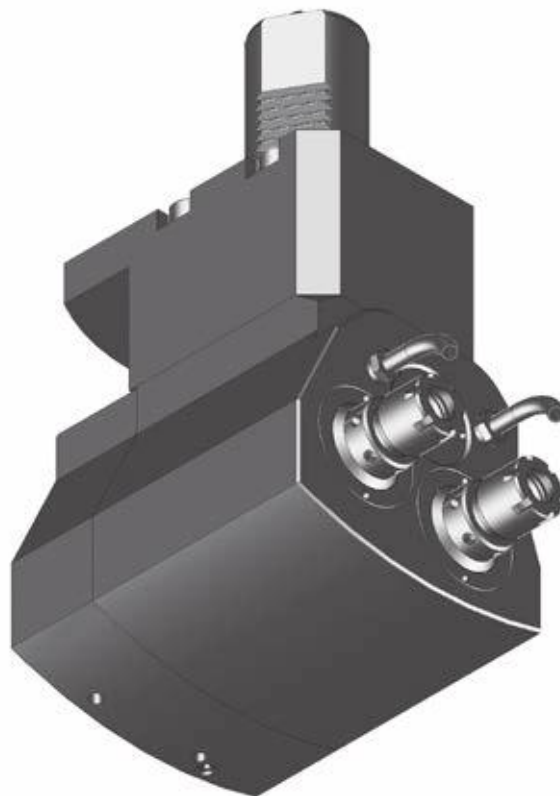


Order No.	Tool Holder	Clamping Range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	L mm	L1 mm	L2 mm	B mm	S mm	T mm	Rotating direction
171042	2x ER 32	1,0-20	2x 20 Nm	6.500 / 6.500	i = 1:1	external	125	75	96	150	75	90	↺ ↻
171063	2x ER 32*	1,0-20	2x 20 Nm	6.500 / 6.500	i = 1:1	internal	125	75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

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

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



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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 530

# Mazak

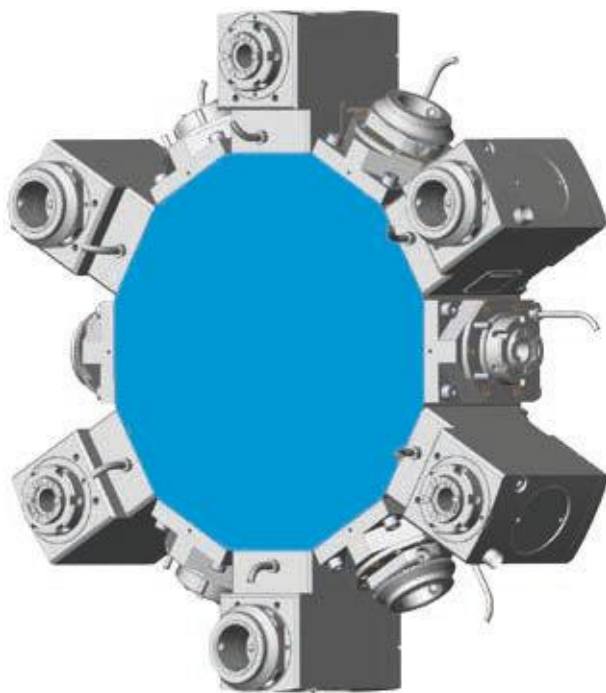
## QUICK TURN SMART 100 M / 200 M

### Data

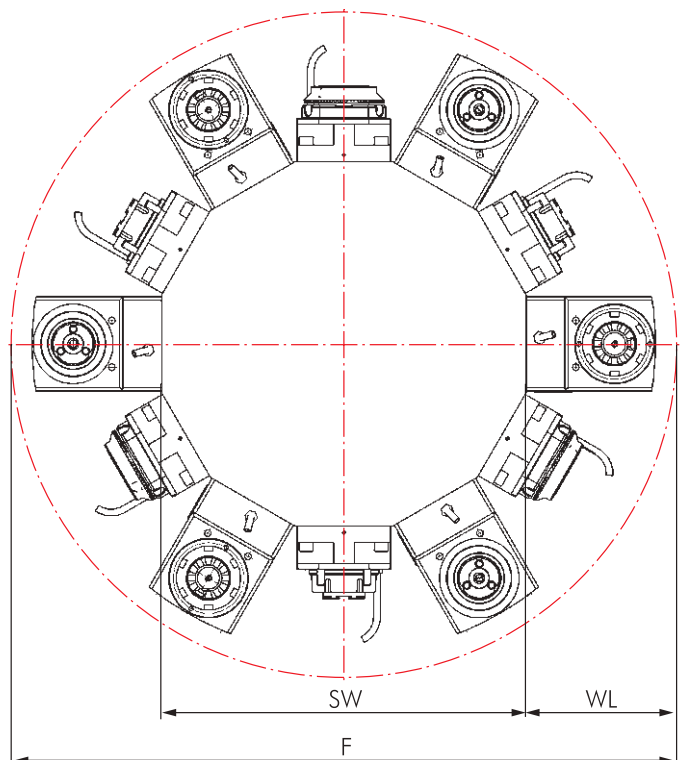
Machine Type Series	Turret Stations
<b>QTS 100 M</b>	12
<b>QTS 200 M</b>	12



### 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

**Live Tools**

	Page		Page
<b>Straight Unit</b>			296
<b>Angle Unit</b>			297

**Options and Accessories**

<b>mi Toolholders</b>		mi System Description Toolholders Accessories	471 473-477 478-479
<b>Static Toolholders for MAZAK</b>		Static Toolholders Accessories	499-509 510-511
<b>Accessories</b>		Collets DIN 6499 Threading Collets Wrenches Clamping Nuts Sleeves and Bushings	526-527 528-529 525 525 531



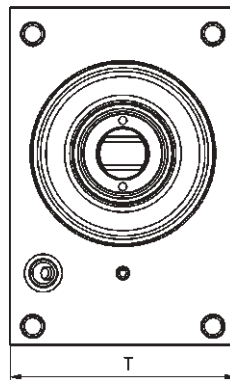
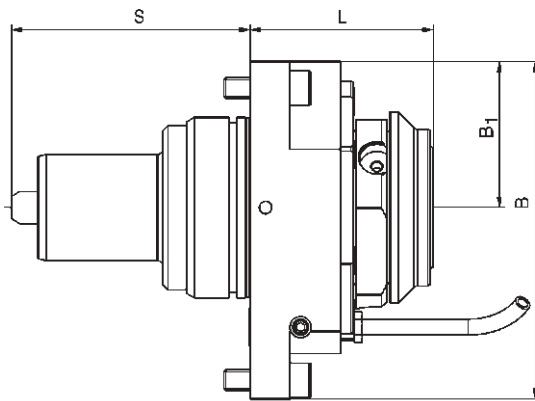
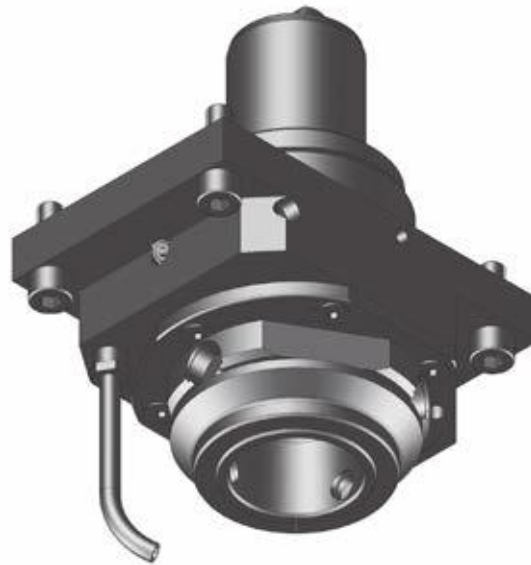
**Delivery information**

Driven toolholders with mi quick-change interface are supplied with operating wrench (see spare parts on page 479).  
Driven toolholders with other interfaces are supplied without clamping wrench (see accessories on page 525).

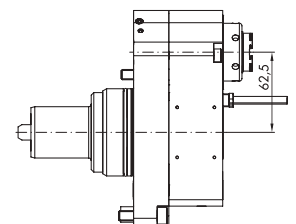
# Straight Unit, Offset and without Offset Type

Compatible machines 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>	



With offset:

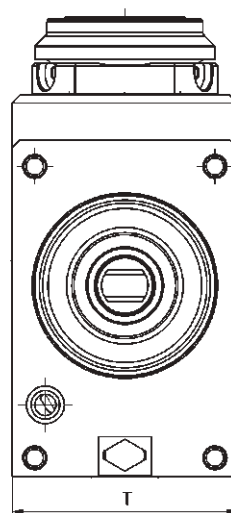
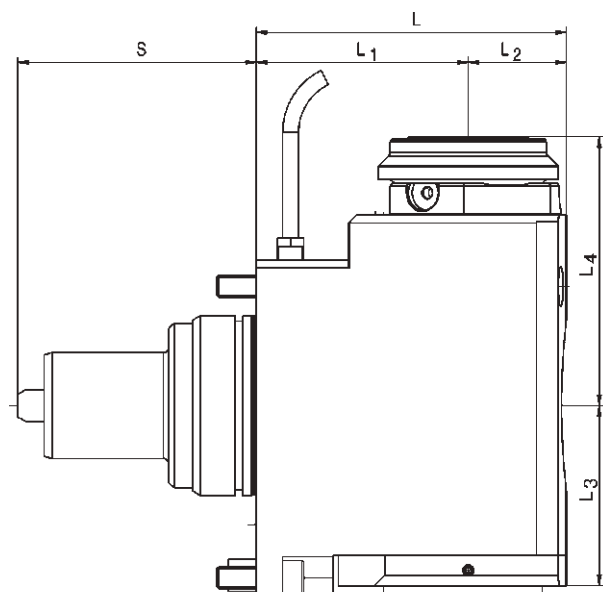
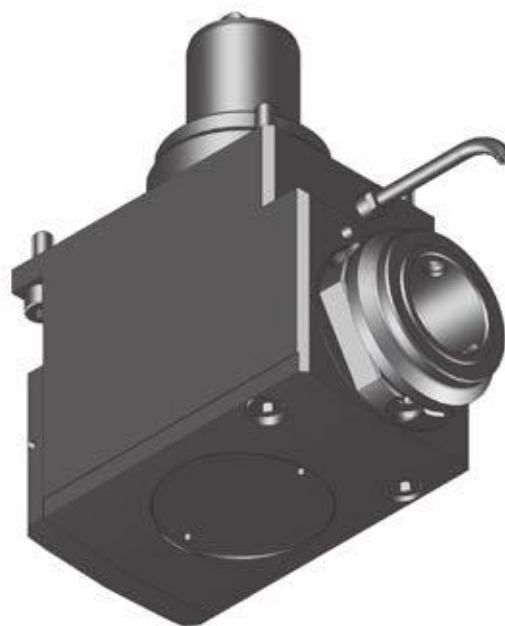


Order No.	Tool Holder	Clamping Range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	L mm	A mm	B mm	B1 mm	S mm	T mm	Rotating direction
162920	ER 25	0,5-16	80 Nm	6.500 / 6.500	i = 1:1	external	90	0	85	42,5	80	127	↺ ↻
176781	ER 25*	0,5-16	80 Nm	6.500 / 6.500	i = 1:1	internal	90	0	85	42,5	80	127	↻ ↺
162921	ER 32	1,0-20	80 Nm	6.500 / 6.500	i = 1:1	external	81	0	85	42,5	80	127	↺ ↻
176783	ER 32*	1,0-20	80 Nm	6.500 / 6.500	i = 1:1	internal	81	0	85	42,5	80	127	↻ ↺
174673	ER 32	1,0-20	80 Nm	6.500 / 6.500	i = 1:1	external	60	0	85	42,5	80	127	↺ ↻
174674	ER 32*	1,0-20	80 Nm	6.500 / 6.500	i = 1:1	internal	60	0	85	42,5	80	127	↻ ↺
174901	mi 50	-	80 Nm	6.500 / 6.500	i = 1:1	internal	69	0	85	42,5	80	127	↺ ↻
<b>With offset 62,5 mm:</b>													
177631	ER 25	0,5-16	25 Nm	4.000 / 6.000	i = 1:1,5	internal	84,5	62,5	167	95	90	85	↻ ↺

# Angle Unit

Compatible machines 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>	



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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 530

# Mazak

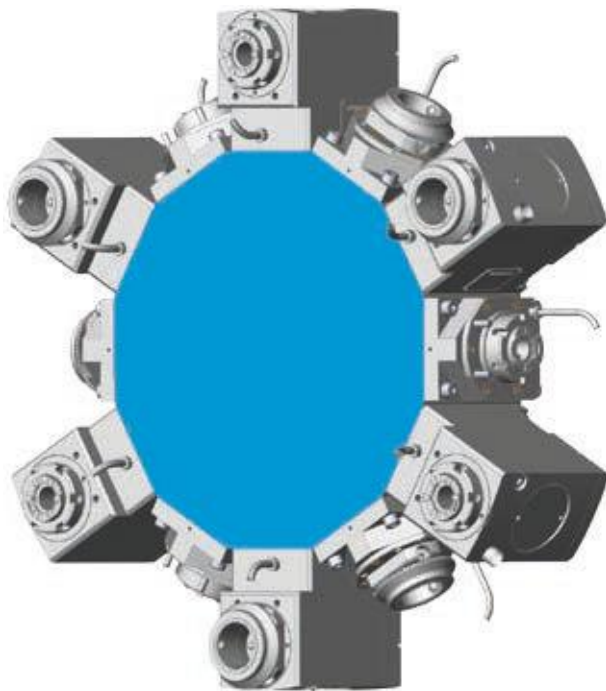
## QUICK TURN SMART 300 M / 350 M

### Data

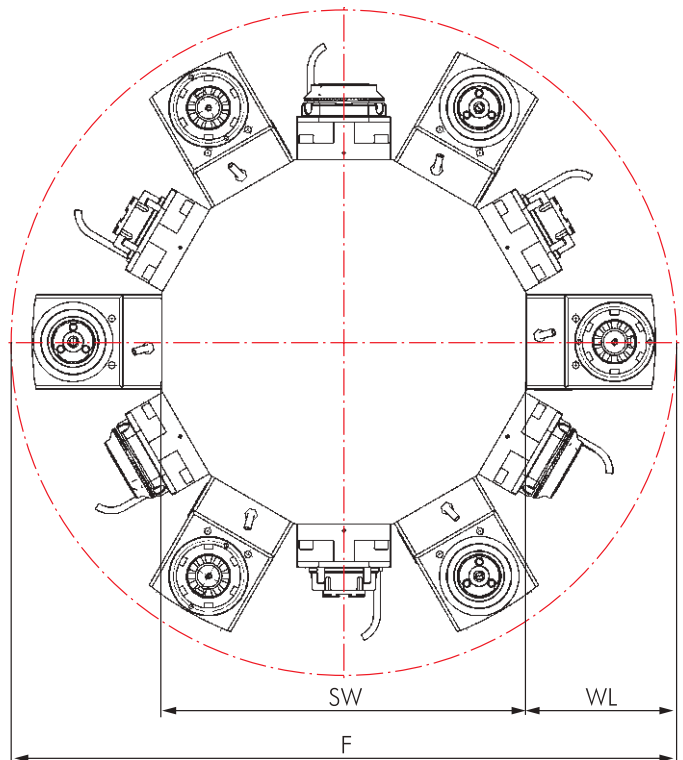
Machine Type Series	Turret Stations
<b>QTS 300 M</b>	12
<b>QTS 350 M</b>	12



### 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

Connectable in accordance with  
**BLUECOMPETENCE**

» mimatic mi  
» PolyMILL » TriMILL » TrioCut » PolyREAM

### Live Tools

	Page		Page
<b>Straight Unit</b>		300	<b>Angle Unit, adjustable 0-90°</b>
<b>Angle Unit</b>		301	
			302

### Options and Accessories

<b>mi Toolholders</b>		mi System Description Toolholders Accessories	471 473-477 478-479
<b>Static Toolholders for MAZAK</b>		Static Toolholders Accessories	499-509 510-511
<b>Accessories</b>		Collets DIN 6499 Threading Collets Wrenches Clamping Nuts Sleeves and Bushings	526-527 528-529 525 525 531



**Delivery information**

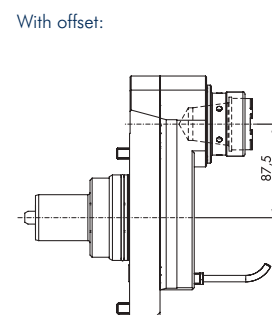
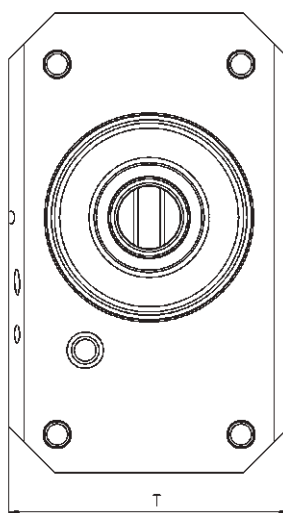
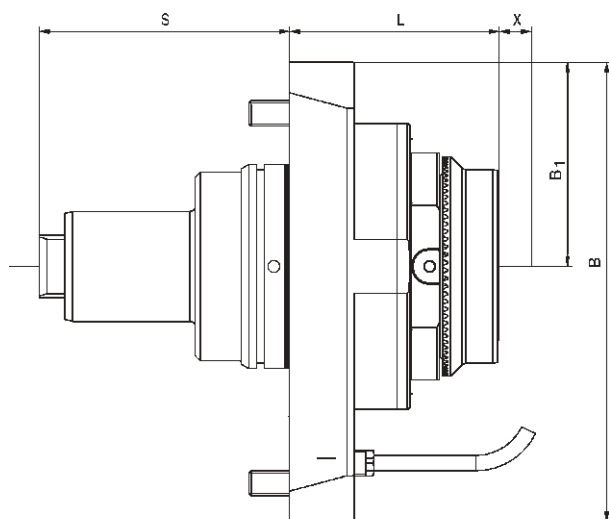
Driven toolholders with mi quick-change interface are supplied with operating wrench (see spare parts on page 479).  
Driven toolholders with other interfaces are supplied without clamping wrench (see accessories on page 525).



# Straight Unit, Offset and without Offset Type

Compatible machines with **BLUECOMPETENCE** » mimatic mi » PolyMILL » TriMILL » TinoCut » 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	175	55	88	110	↺ ↻
175587	ER 40*	2,5-30	140 Nm	6.500 / 6.500	i = 1:1	internal	89	71	175	55	88	110	↻ ↺
175588	mi 63	-	140 Nm	6.500 / 6.500	i = 1:1	internal	78	82	175	55	88	110	↻ ↺
<b>With offset 87,5 mm:</b>													
179163	ER 40	2,5-30	50 Nm	4.000 / 6.000	i = 1:1,5	internal	45	108	225	132,5	88	120	↻ ↺

# Angle Unit

Compatible machines with **BLUECOMPETENCE** » mimatic mi » PolyMILL » TriMILL » TrioCut » PolyREAM

for Manufacturer

**Mazak**

for Machine Type

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

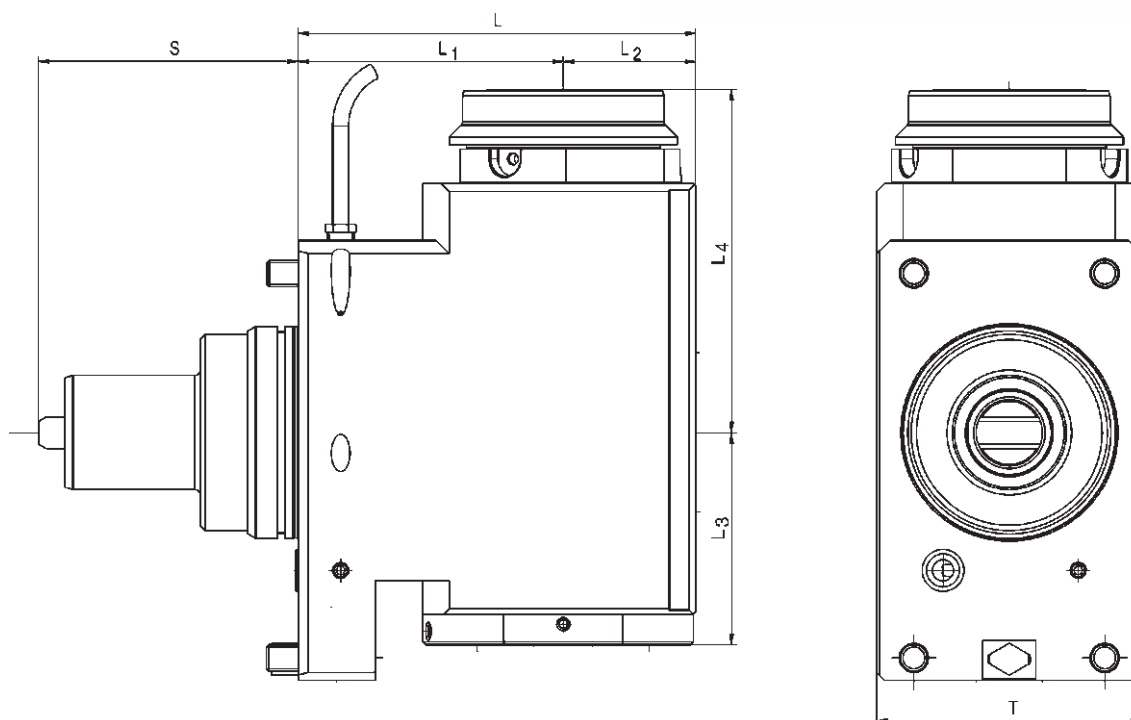
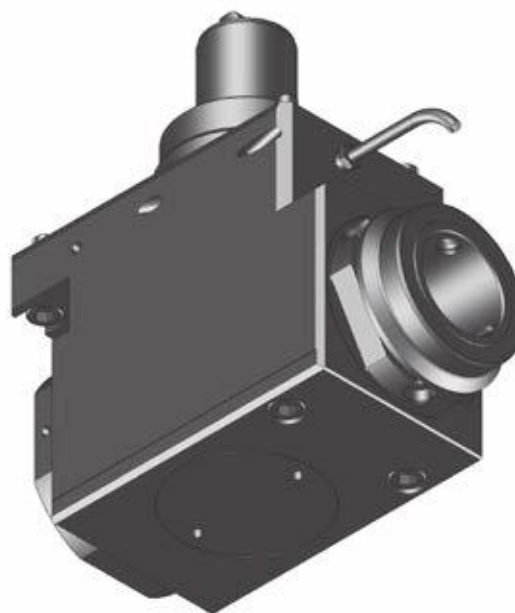
**QTS**  
300M  
350M

Dimensions

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

Modular Interfaces

**mimaticMi**



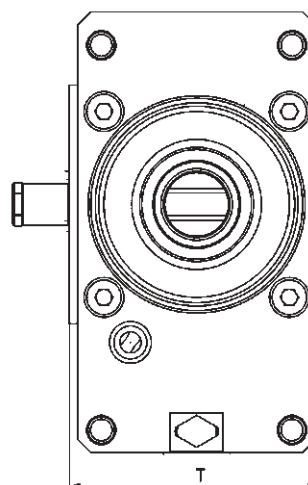
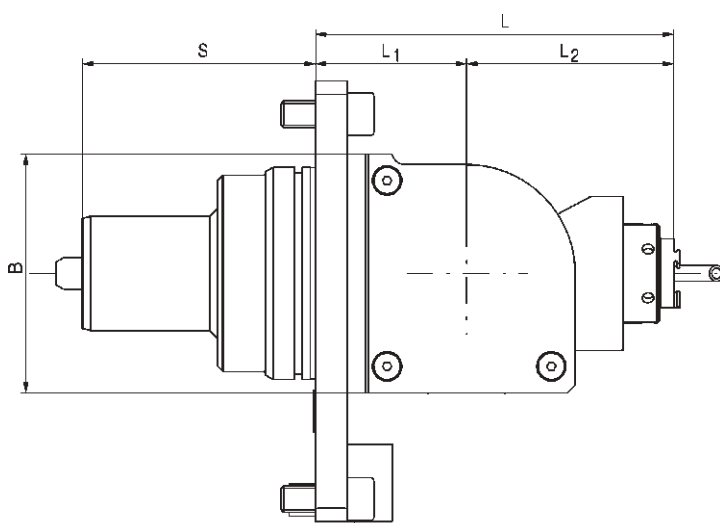
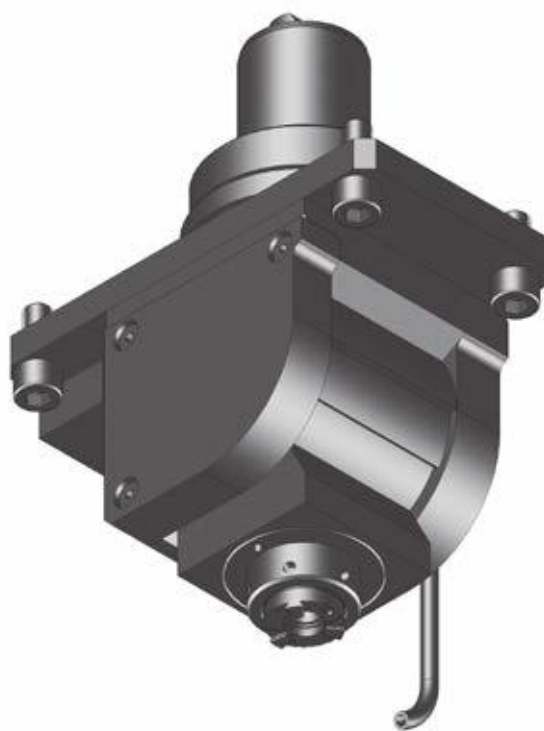
Order No.	Tool Holder	Clamping Range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	L mm	L1 mm	L2 mm	L3 mm	L4 mm	S mm	T mm	Rotating direction
175591	ER 40	2,5-30	100 Nm	6.500 / 6.500	i = 1:1	external	150	100	50	80	108,0	88	100	↺ ↻
175592	ER 40*	2,5-30	100 Nm	6.500 / 6.500	i = 1:1	internal	150	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 530

# Angle Unit, Adjustable 0-90°

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



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	↻ ↺

**BLUECOMPETENCE**

Alliance Member

Partner of the Engineering Industry  
Sustainability Initiative



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

# Mazak

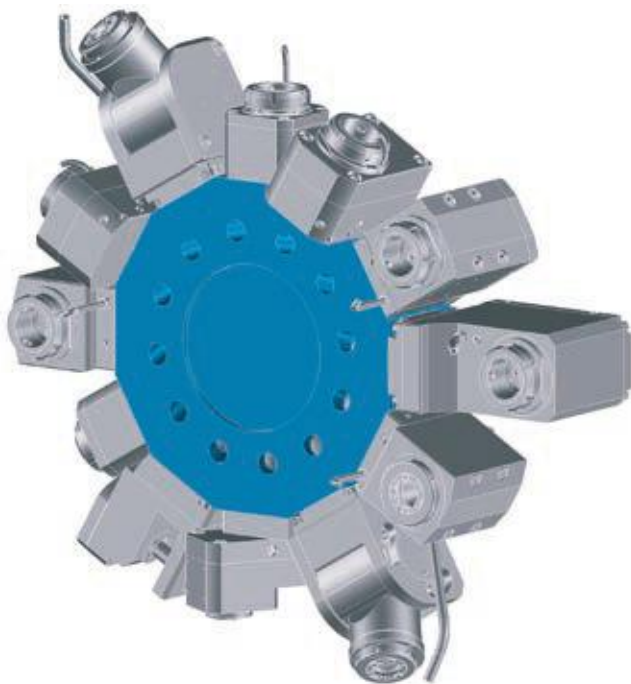
## MULTIPLEX 610/6100/6200 + HYPER QUADREX MSY 150

### Data

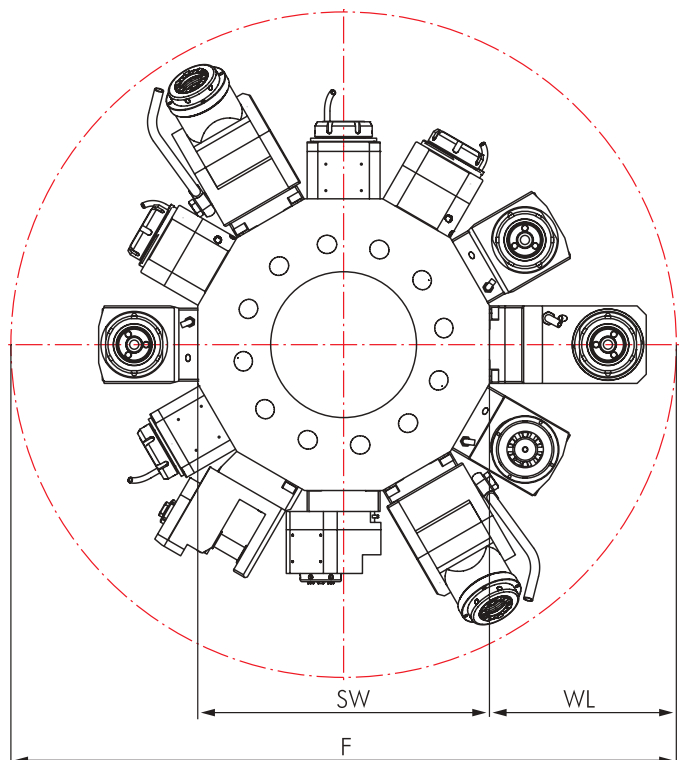
Machine type Series		Turret Stations
<b>MP 610</b>		12
<b>MP 6100/6100</b>	<b>Y</b>	16
<b>MP 6200/6200</b>	<b>Y</b>	16
<b>HQ 150</b>	<b>MSY</b>	12



### 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>	306-307		
		<b>Angle Unit, adjustable 0-100°</b>	310
			
<b>Angle Unit</b>	308-309		
		<b>Y-Unit, adjustable ± 90°</b>	311
			
		<b>Saw Blade Holder</b>	312
			

**Options and Accessories**

<b>mi Toolholders</b>		mi System Description Toolholders Accessories	471 473-477 478-479
<b>Static Toolholders for MAZAK</b>		Static Toolholders Accessories	499-509 510-511
<b>Accessories</b>		Collets DIN 6499 Threading Collets Wrenches Clamping Nuts Sleeves and Bushings	526-527 528-529 525 525 531



**Delivery information**

Driven toolholders with mi quick-change interface are supplied with operating wrench (see spare parts on page 479).  
Driven toolholders with other interfaces are supplied without clamping wrench (see accessories on page 525).

# Straight Unit, Offset Type

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

for Manufacturer

**Mazak**

for Machine type

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

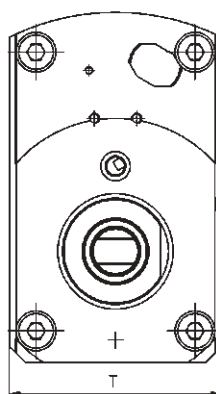
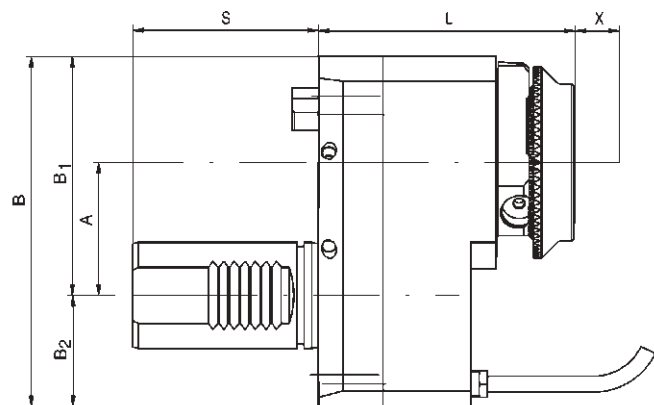
<b>MP</b>	<b>HQ MSY</b>
610 - 12x	150 - 12x
6100 - 16x	
6200 - 16x	

Dimensions

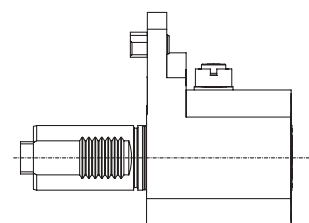
Turret type	Star-type Turret
Shank	VDI 40
Drive	Tang
SW	10 mm

Modular Interfaces

**mimaticMi**  
**mimatic capto**



Without offset:



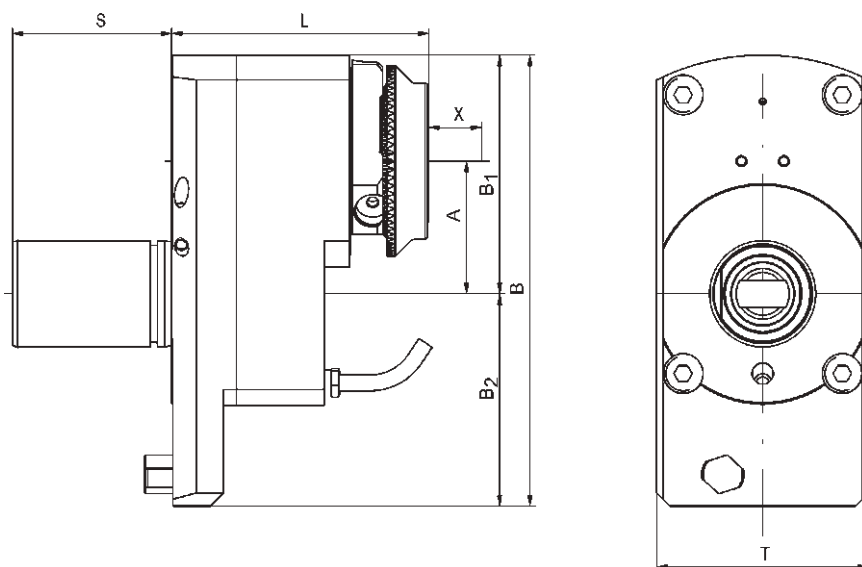
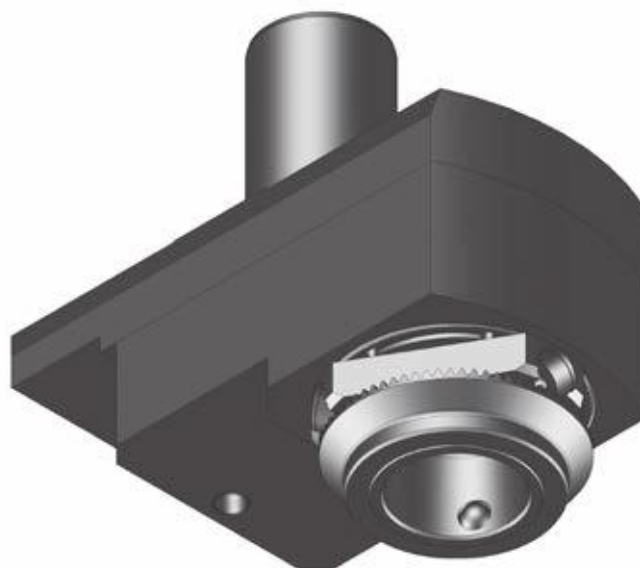
Order No.	Tool holder	Clamping range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	X mm	L mm	A mm	B mm	B1 mm	B2 mm	S mm	T mm	Rotating direction
124018	ER 32	1,0-20	50 Nm	6.500 / 6.500	i = 1:1	external	65,0	90,0	50	132	90	42	60	80	↺ ↻
124252	ER 32*	1,0-20	50 Nm	6.500 / 6.500	i = 1:1	internal	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	134	92	42	60	84	↺ ↻
Without offset (HQ 150)															
173577	C 4	-	80 Nm	6.500 / 6.500	i = 1:1	external	-	80,0	-	132	90	42	60	84	↺ ↻



# Straight Unit, Offset Type for Sub-Spindle

Connectable accessories 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>	



13

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 530



# Angle Unit

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

for Manufacturer

**Mazak**

for Machine type

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

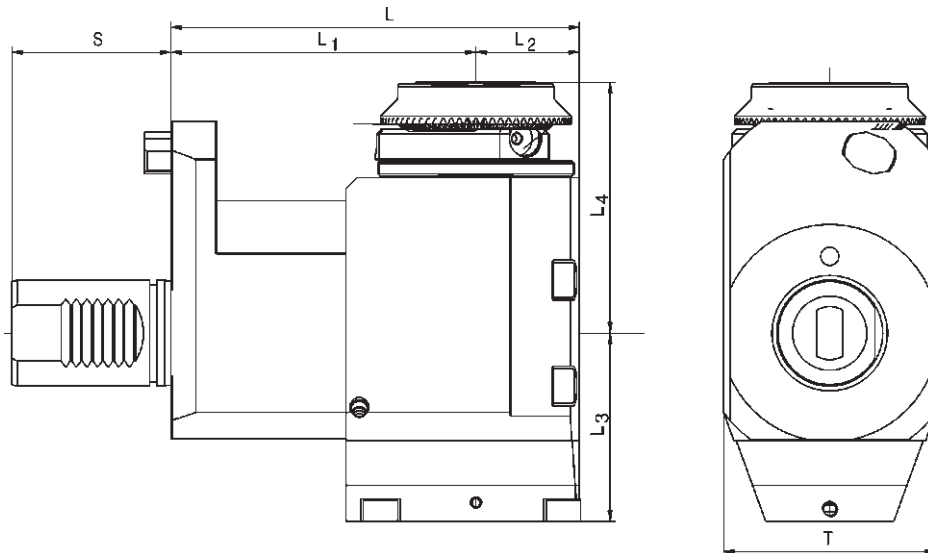
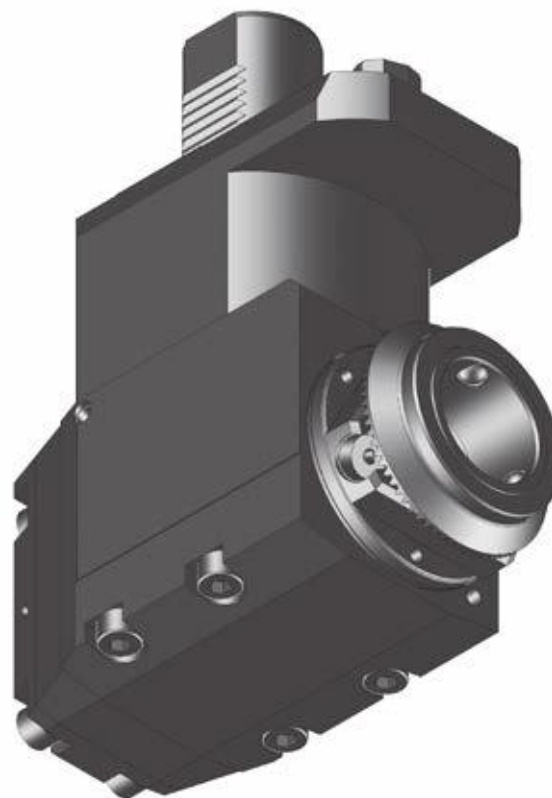
<b>MP</b>	<b>HQ MSY</b>
610 - 12x	150 - 12x
6100 - 16x	
6200 - 16x	

Dimensions

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

Modular Interfaces

**mimaticMi**  
**mimatic capto**

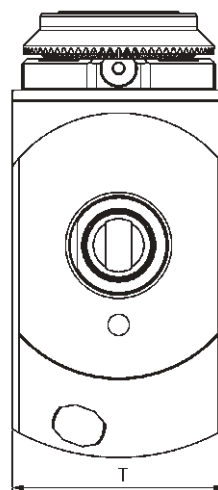
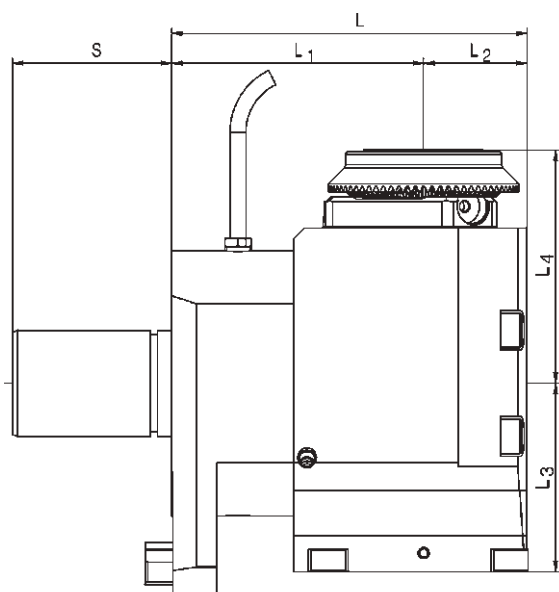


Order No.	Tool holder	Clamping range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	L mm	L1 mm	L2 mm	L3 mm	L4 mm	S mm	T mm	Rotating direction
124610	ER 32	1,0-20	50 Nm	6.500 / 6.500	i = 1:1	external	154	115	39	69,0	70	60	85	↺ ↻
124854	ER 32*	1,0-20	50 Nm	6.500 / 6.500	i = 1:1	internal	154	115	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

Connectable in accordance with **BLUECOMPETENCE** » mimatic mi » PolyMILL » TriMILL » TiroCut » 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>	



13

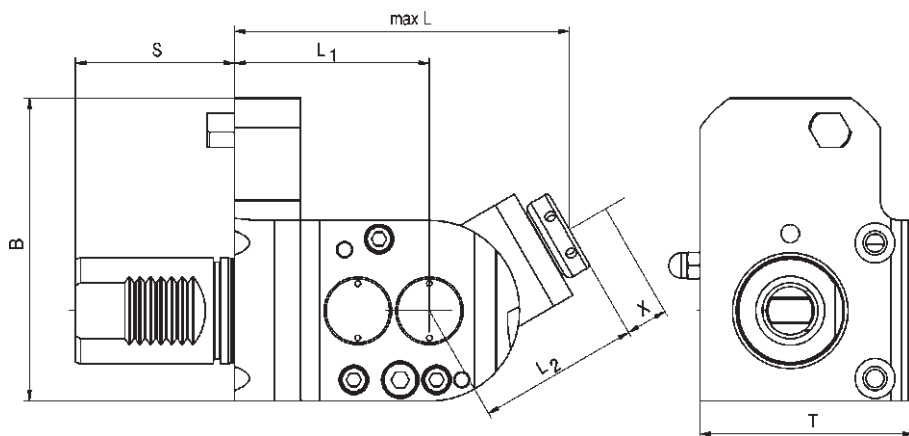
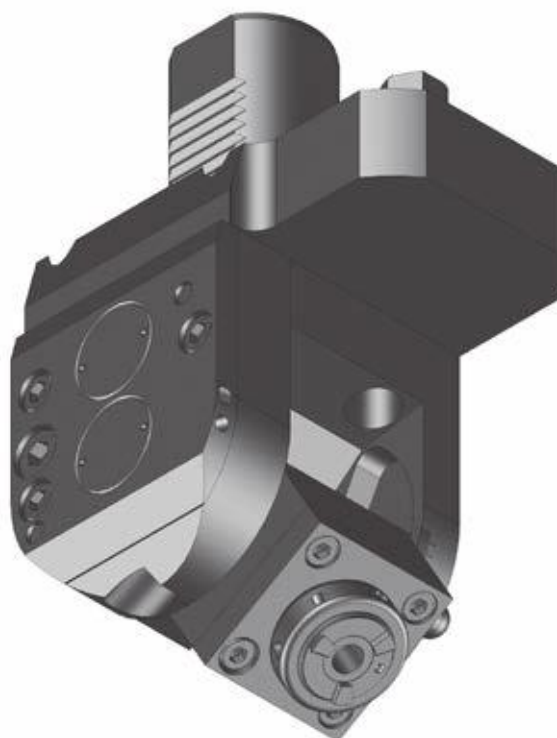
Order No.	Tool holder	Clamping range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	L mm	L1 mm	L2 mm	L3 mm	L4 mm	S mm	T mm	Rotating direction
174700	ER 32	1,0-20	50 Nm	6.500 / 6.500	i = 1:1	external	154	115	39	72	69	60	80	↺ ↻
174701	ER 32*	1,0-20	50 Nm	6.500 / 6.500	i = 1:1	internal	154	115	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 530

# Angle Unit, Adjustable 0-100°

Connectable in accordance with **BLUECOMPETENCE** » PolyMILL » TriMILL » 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	Star-type Turret
Shank	VDI 40
Drive	Tang
SW	10 mm

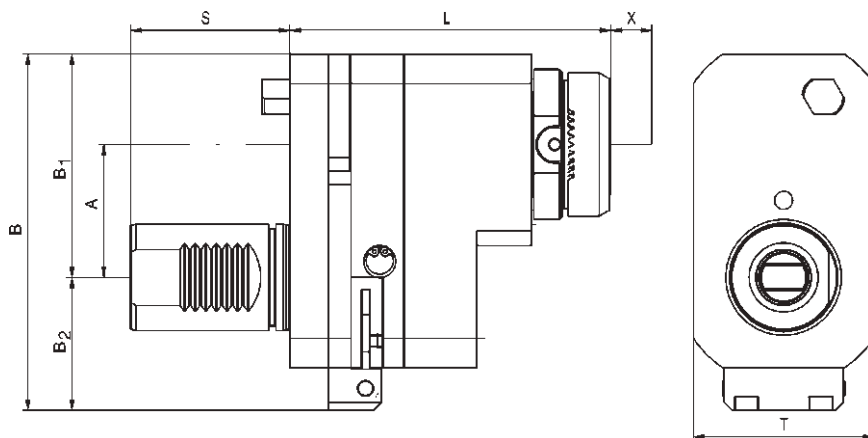
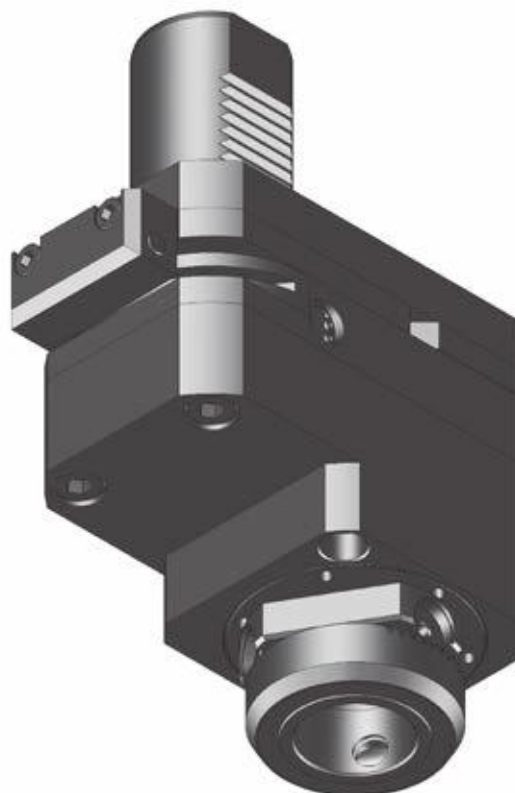


Order No.	Tool holder	Clamping range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	X mm	L mm	L1 mm	L2 mm	B mm	S mm	T mm	Rotating direction
125024	ER 16	0,5-10	6 Nm	6.500 / 6.500	i = 1:1	external	20,5	134,5	73,5	61	114	60	80,5	↻ ↻
125051	ER 16	0,5-10	6 Nm	3.750 / 15.000	i = 1:4	external	20,5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

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

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

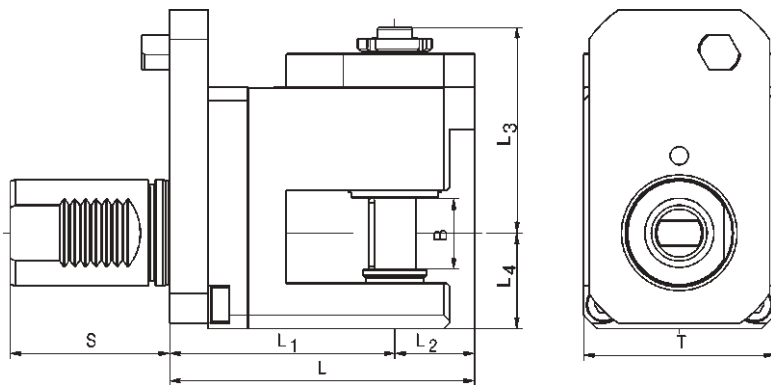
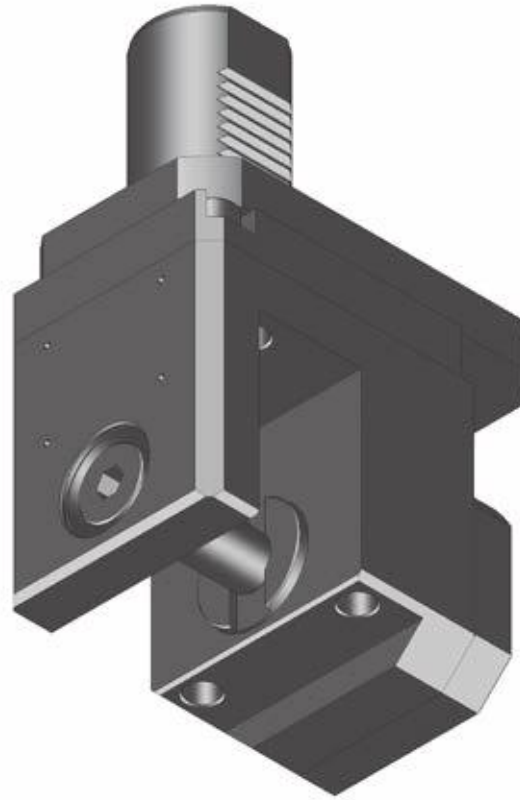
for Manufacturer	
<b>Mazak</b>	
for Machine type	
<b>MULTIPLEX 610/6100/6200 HYPER QUADREX MSY 150</b>	
<b>MP</b> 610 - 12x 6100 - 16x 6200 - 16x	<b>HQ MSY</b> 150 - 12x
Dimensions	
Turret type Type	Star-type Turret $\pm 90^\circ$ continuous adjustable
Shank Drive SW	VDI 40 Tang 10 mm
Modular Interfaces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

**BLUECOMPETENCE**

Alliance Member

Partner of the Engineering Industry  
Sustainability Initiative



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

# Mazak

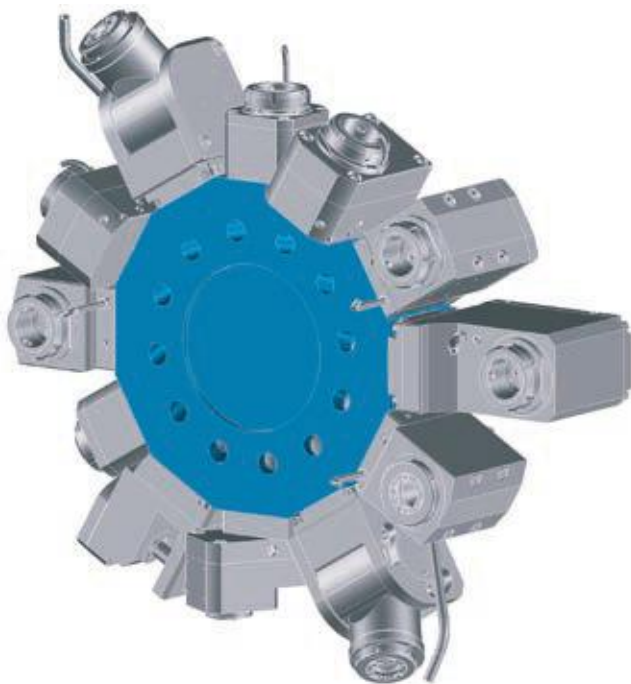
## MULTIPLEX 620/6200 + HYPER QUADREX MSY 200

### Data

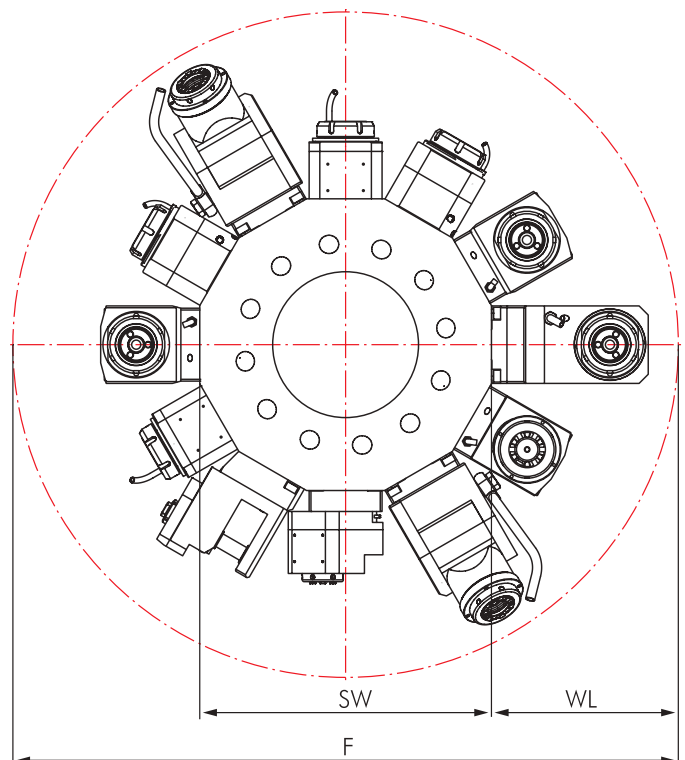
Machine type Series		Turret Stations
<b>MP 620</b>		12
<b>MP 6200/6200</b>	<b>Y</b>	12/16
<b>HQ 200</b>	<b>MSY</b>	12



### 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**

**Live Tools**

	Page		Page
<b>Straight Unit, Offset Type</b>	316-317		
		<b>Angle Unit, adjustable 0-100°</b>	321
			
<b>Angle Unit</b>	318-319		
		<b>Y-Unit, adjustable ± 90°</b>	322
			
<b>Angle Unit, 2-Axis</b>	320		
		<b>Saw Blade Holder</b>	323
			

**Options and Accessories**

<b>mi Toolholders</b>		mi System Description Toolholders Accessories	471 473-477 478-479
<b>Static Toolholders for MAZAK</b>		Static Toolholders Accessories	499-509 510-511
<b>Accessories</b>		Collets DIN 6499 Threading Collets Wrenches Clamping Nuts Sleeves and Bushings	526-527 528-529 525 525 531



**Delivery information**

Driven toolholders with mi quick-change interface are supplied with operating wrench (see spare parts on page 479).  
Driven toolholders with other interfaces are supplied without clamping wrench (see accessories on page 525).



# Straight Unit, Offset Type

Compatible machines with **BLUECOMPETENCE** » mimatic mi » PolyMILL » TriMILL » TrioCut » PolyREAM

for Manufacturer

**Mazak**

for Machine type

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

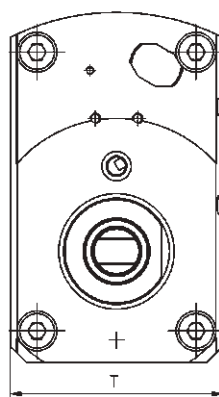
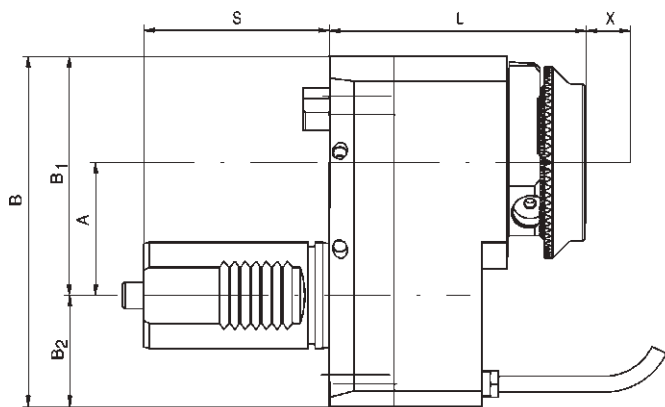
<b>MP</b>	<b>HQ</b>
620 - 12x	200 - 12x
6200 - 12x	

Dimensions

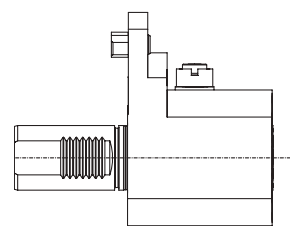
Turret type	Star-type Turret
Shank	VDI 40
Drive	Tang
SW	10 mm

Modular Interfaces

**mimaticMi**  
**mimatic capto**



Without offset:

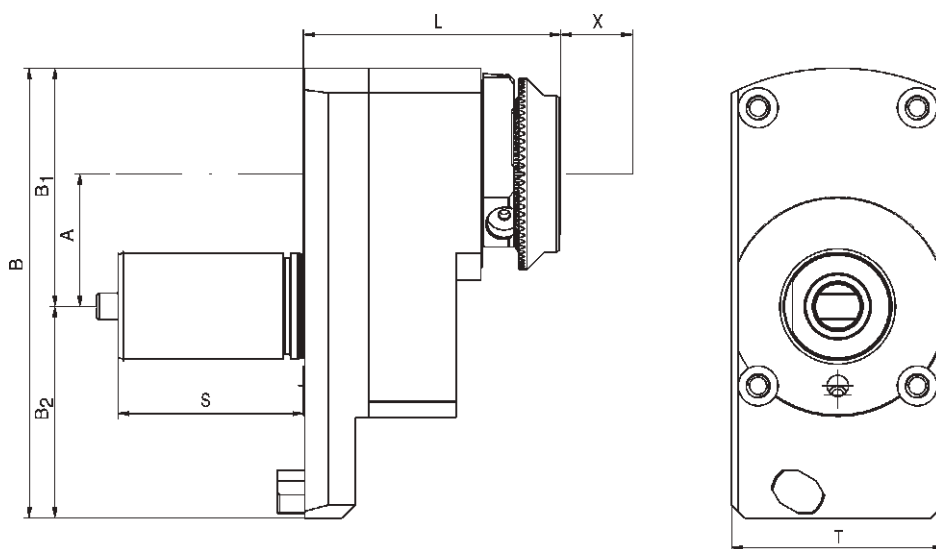
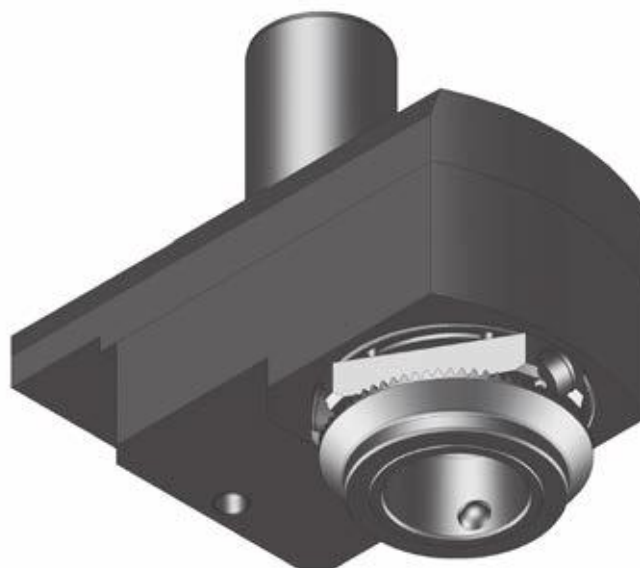


Order No.	Tool holder	Clamping range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	X mm	L mm	A mm	B mm	B1 mm	B2 mm	S mm	T mm	Rotating direction
124021	ER 32	1,0-20	50 Nm	6.500 / 6.500	i = 1:1	external	90,0	90,0	50	132	90	42	70	80	↺ ↻
124255	ER 32*	1,0-20	50 Nm	6.500 / 6.500	i = 1:1	internal	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	-	90,0	-	132	90	42	70	84	↺ ↻

# Straight Unit, Offset Type for Sub-Spindle

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

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 530

# Angle Unit

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

for Manufacturer

**Mazak**

for Machine type

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

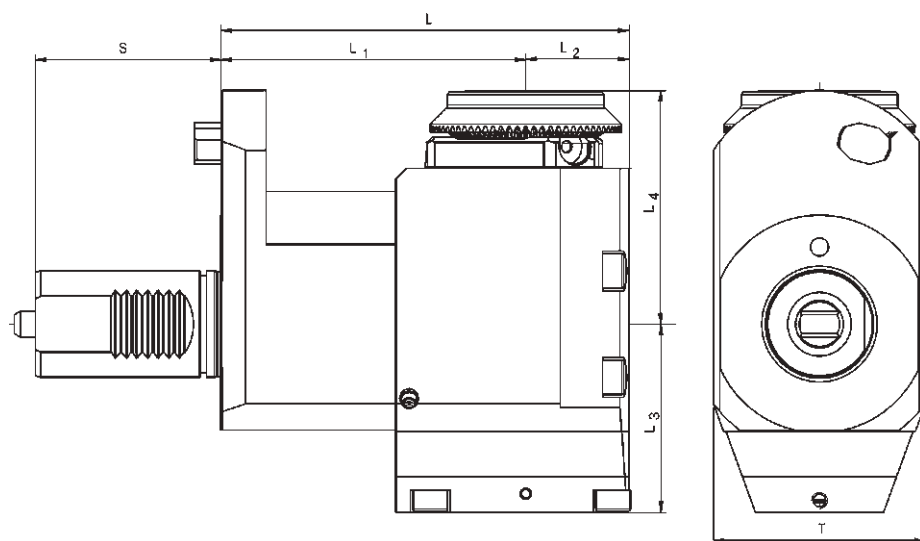
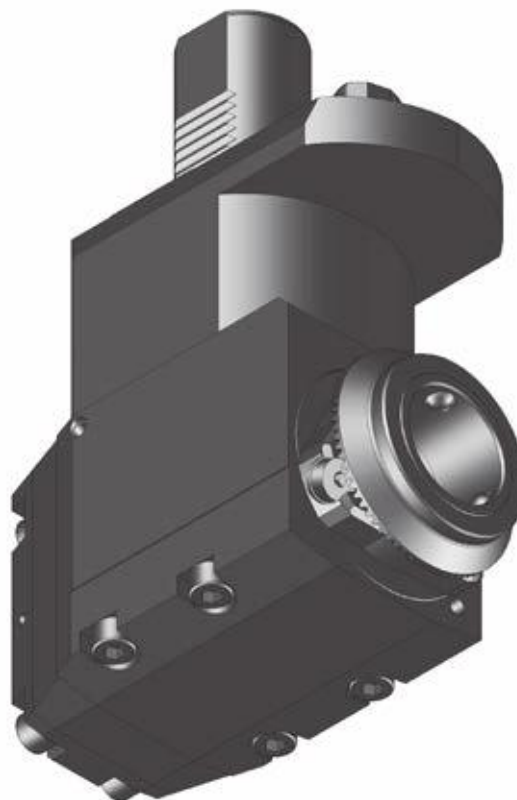
<b>MP</b>	<b>HQ</b>
620 - 12x	200 - 12x
6200 - 12x	

Dimensions

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

Modular Interfaces

**mimaticMi**  
**mimatic capto**

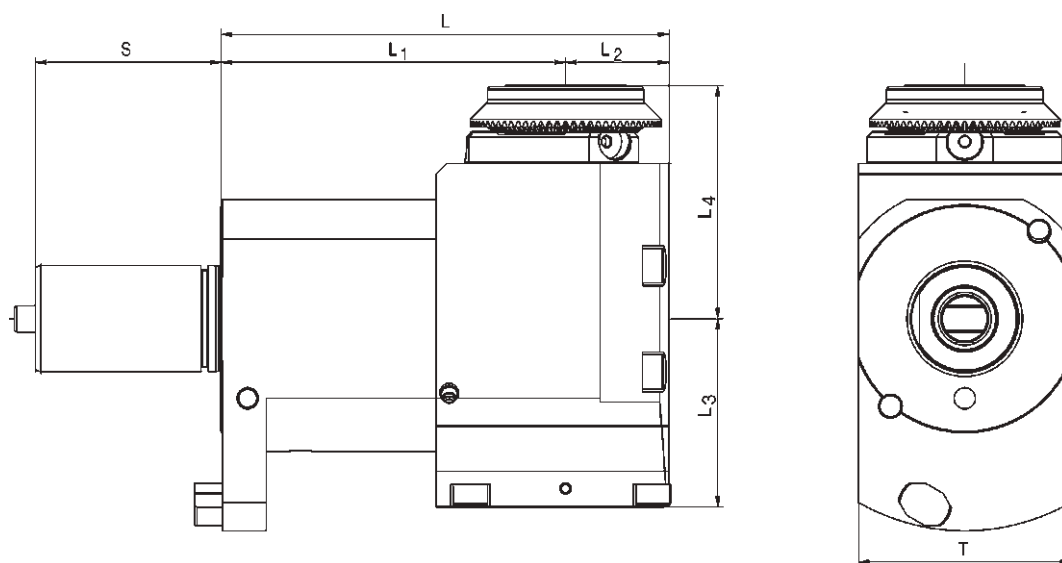
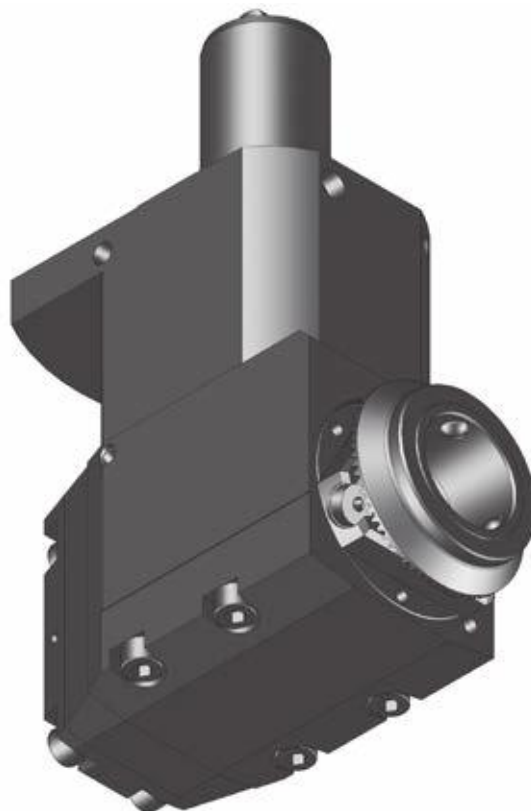


Order No.	Tool holder	Clamping range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	L mm	L1 mm	L2 mm	L3 mm	L4 mm	S mm	T mm	Rotating direction
124619	ER 32	1,0-20	50 Nm	6.500 / 6.500	i = 1:1	external	169	130	39	69,0	70,0	70	85	↺ ↻
124864	ER 32*	1,0-20	50 Nm	6.500 / 6.500	i = 1:1	internal	173	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

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

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

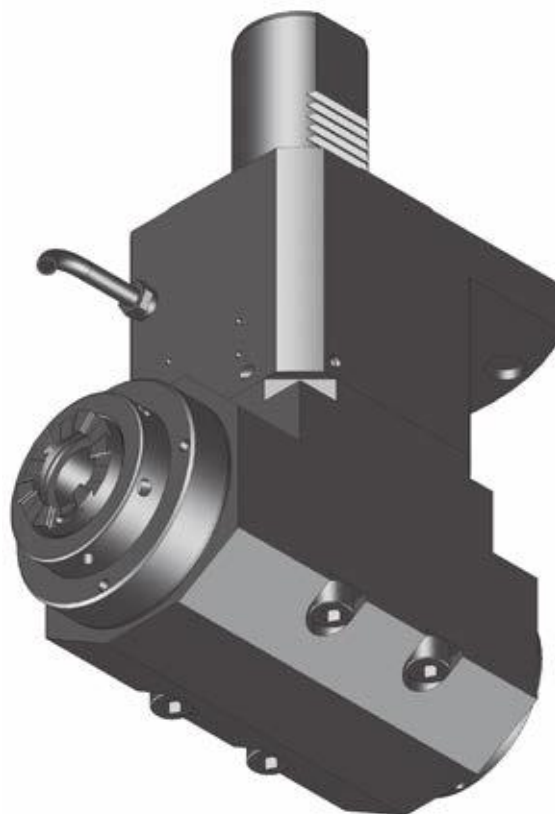


Order No.	Tool holder	Clamping range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	L mm	L1 mm	L2 mm	L3 mm	L4 mm	S mm	T mm	Rotating direction
174706	ER 32	1,0-20	50 Nm	6.500 / 6.500	i = 1:1	external	169	130	39	69	72	70	80	↺ ↻
174707	ER 32*	1,0-20	50 Nm	6.500 / 6.500	i = 1:1	internal	169	130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

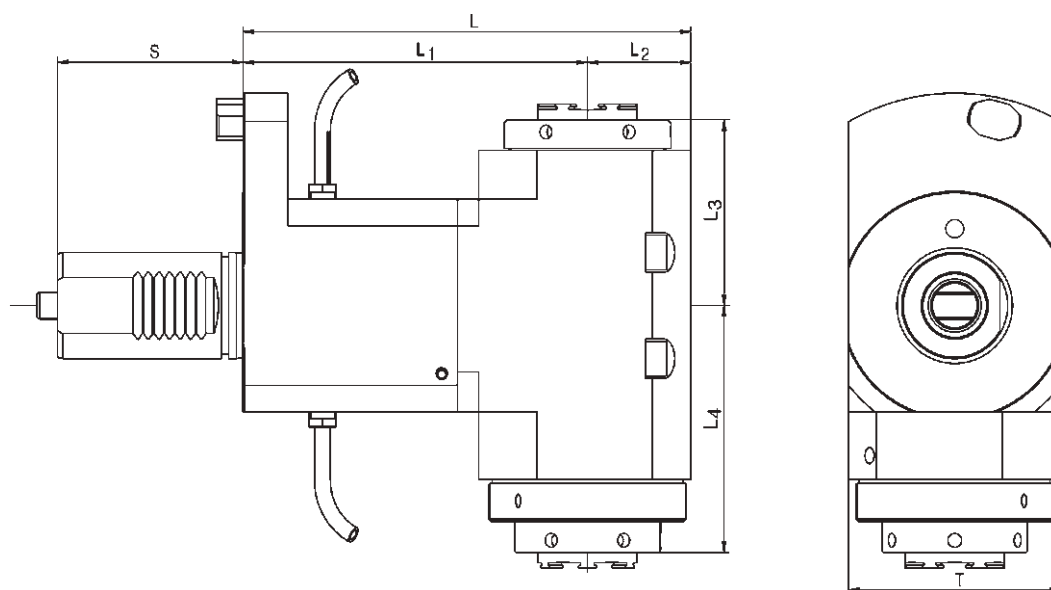
\* With clamping nuts with sealing, seals see page 530

# 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



**Coolant pressure max. 30 bar**

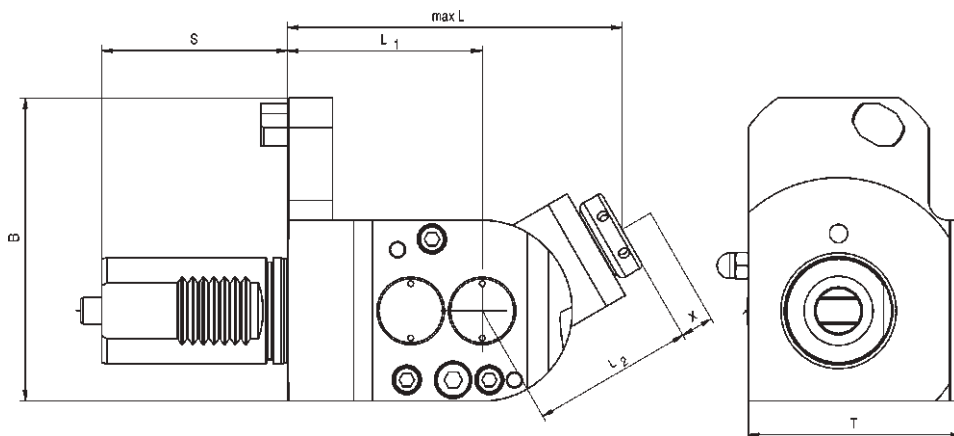
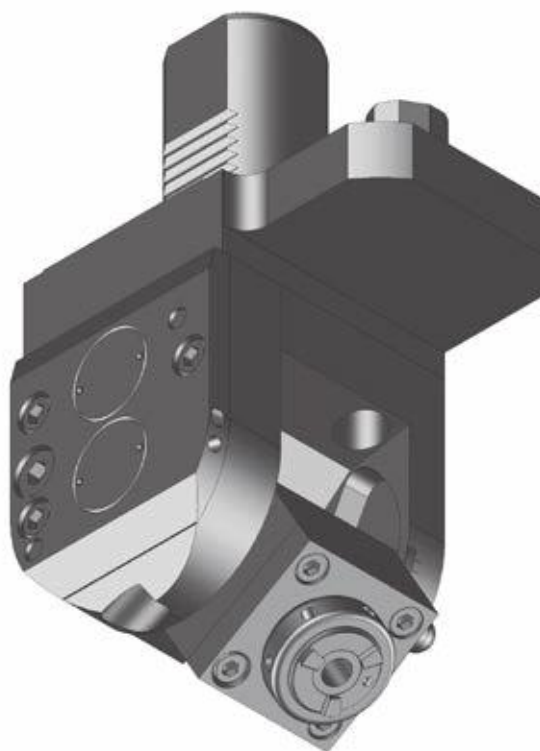


Order No.	Tool holder	Clamping range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	L mm	L1 mm	L2 mm	L3 mm	L4 mm	S mm	T mm
164335	2x ER 32	1,0-20	50 Nm	6.500 / 6.500	i = 1:1	external	169	130	39	70	70	70	80
171083	2x ER 32*	1,0-20	50 Nm	6.500 / 6.500	i = 1:1	internal	169	130	39	70	93	70	80

# Angle Unit, Adjustable 0-100°

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

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



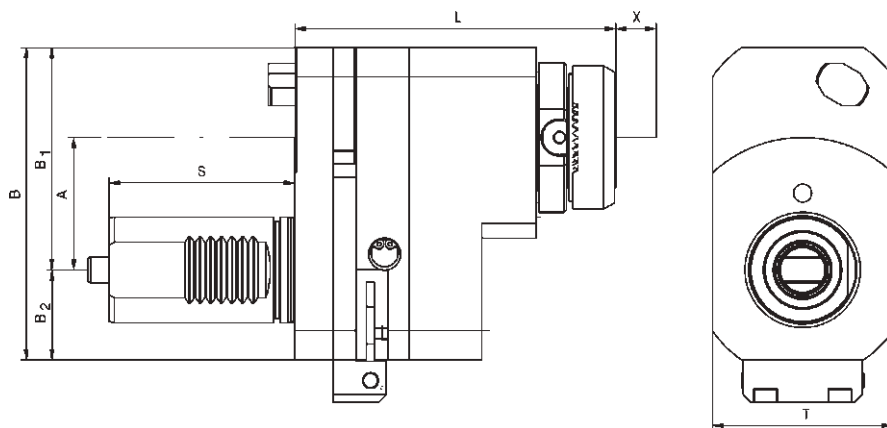
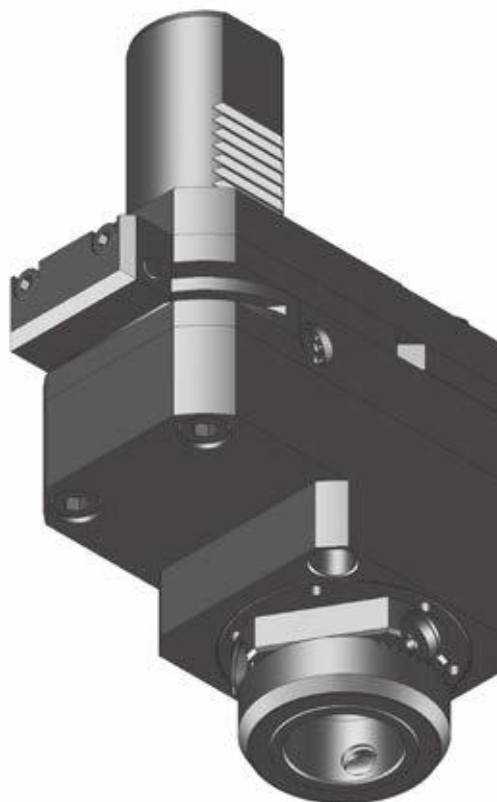
13

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 $\pm 90^\circ$

Compatible accessories with **BLUECOMPETENCE** » mimatic mi » PolyMILL » TriMILL » TrioCut » PolyREAM

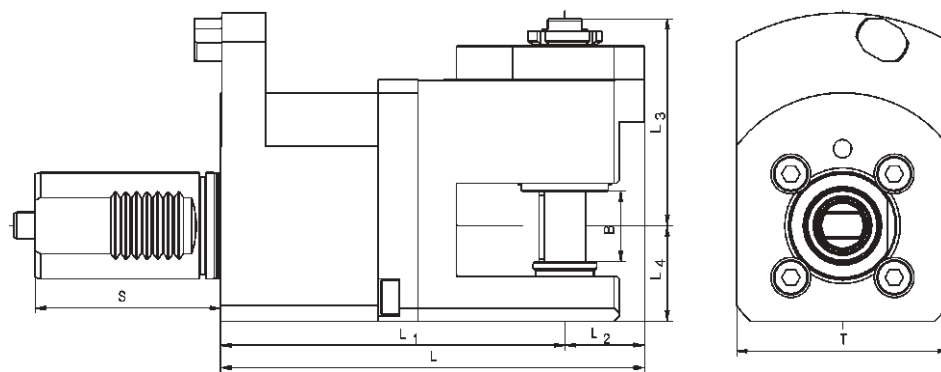
for Manufacturer	
<b>Mazak</b>	
for Machine type	
<b>MULTIPLEX 620/6200</b> <b>HYPER QUADREX MSY 200</b>	
<b>MP</b> 620 - 12x 6200 - 12x	<b>HQ</b> 200 - 12x
Dimensions	
Turret type Type	Star-type Turret $\pm 90^\circ$ continuous adjustable
Shank Drive SW	VDI 40 Tang 10 mm
Modular Interfaces	
<b>mimaticMi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



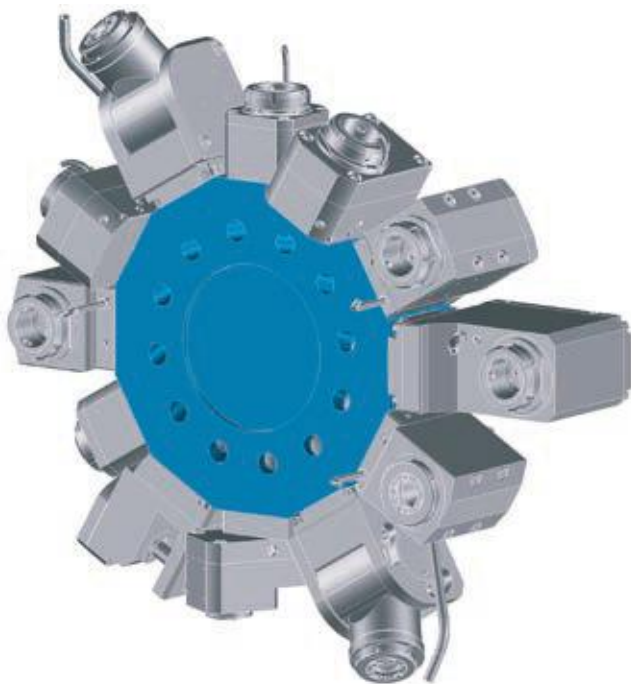
# Mazak MULTIPLEX 630 / 6300

## Data

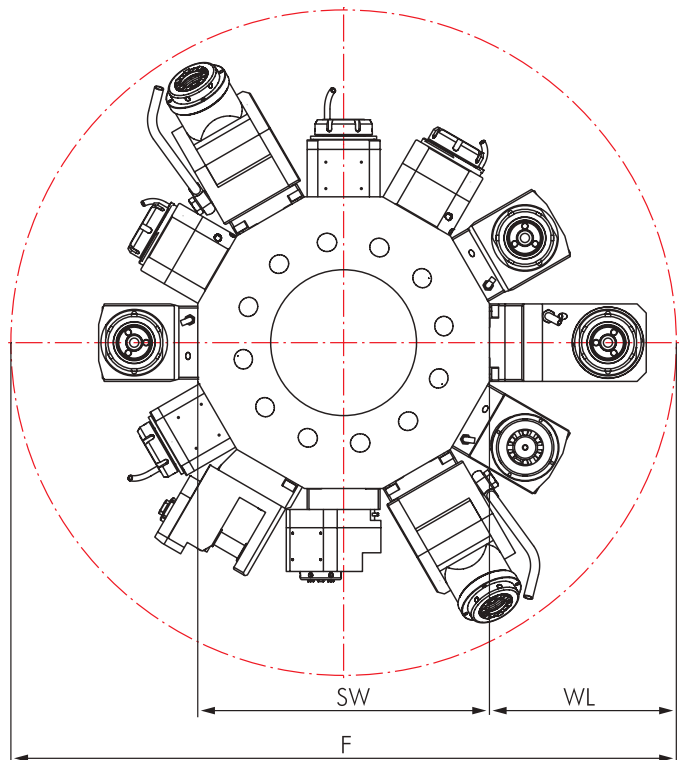
Machine type Series	Turret Stations
<b>MP 630</b>	12
<b>MP 6300/6300 Y</b>	12



## Star-type Turret VDI 50





## Interference Circles



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

## Live Tools

	Page		Page
<b>Straight Unit, Offset Type</b>		326	
<b>Angle Unit</b>			327

## Options and Accessories

<b>mi Toolholders</b>		mi System Description Toolholders Accessories	471 473-477 478-479
<b>Static Toolholders for MAZAK</b>		Static Toolholders Accessories	499-509 510-511
<b>Accessories</b>		Collets DIN 6499 Threading Collets Wrenches Clamping Nuts Sleeves and Bushings	526-527 528-529 525 525 531



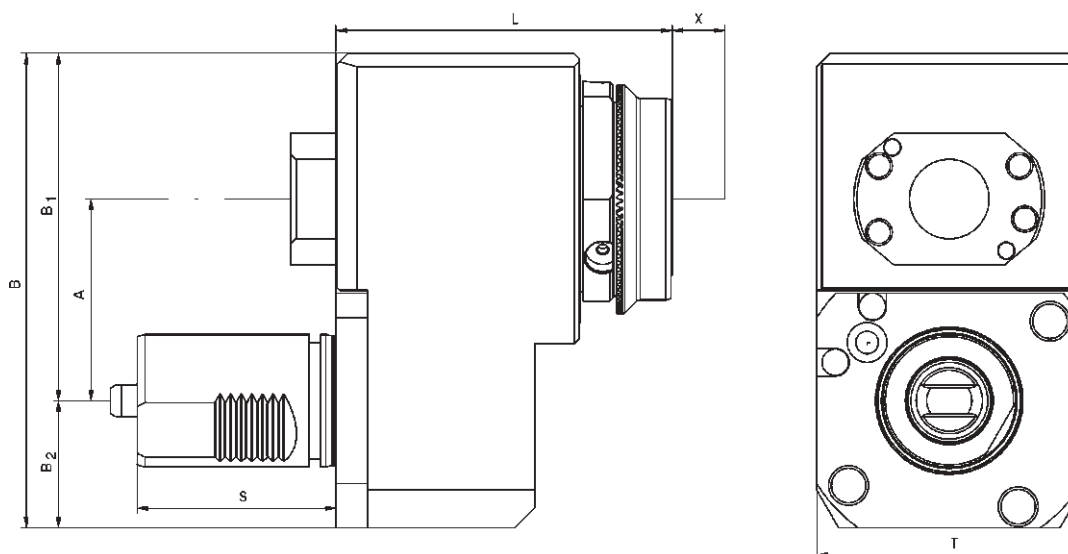
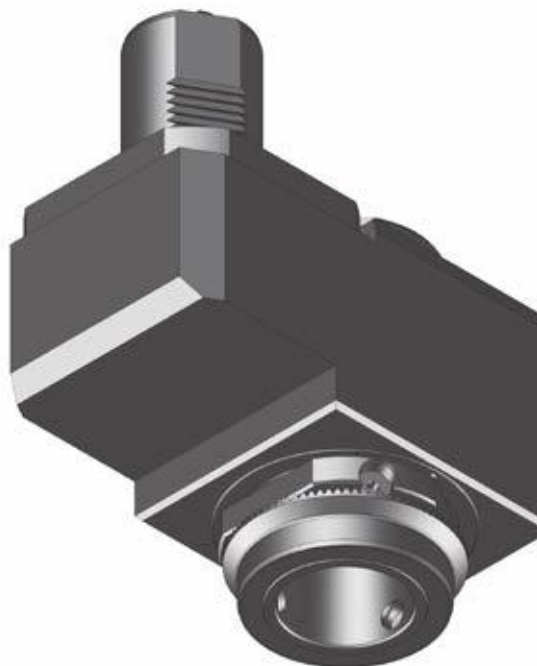
### Delivery information

Driven toolholders with mi quick-change interface are supplied with operating wrench (see spare parts on page 479).  
Driven toolholders with other interfaces are supplied without clamping wrench (see accessories on page 525).

# Straight Unit, Offset Type

Compatible machines with **BLUECOMPETENCE** » mimatic mi » PolyMILL » TriMILL » TrioCut » PolyREAM

for Manufacturer	
<b>Mazak</b>	
for Machine type	
<b>MULTIPLEX 630 / 6300</b>	
<b>MP</b> 630 - 12x 6300 - 12x	
Dimensions	
Turret type	Star-type Turret
Shank	VDI 50
Drive	Tang
SW	12 mm
Modular Interfaces	
<b>mimaticMi</b> <b>mimatic capto</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
131556	ER 40*	2,0-26	100 Nm	6.500 / 6.500	i = 1:1	internal	107,5	122,5	76	179	131	48	75	100	↺ ↻
100245	mi 63	-	100 Nm	6.500 / 6.500	i = 1:1	internal	-	126,0	76	179	131	48	75	100	↺ ↻
102793	SK/CAT 40	-	100 Nm	6.500 / 6.500	i = 1:1	external	111,5	108,5	76	179	131	48	75	100	↺ ↻
173569	C 5	-	100 Nm	6.500 / 6.500	i = 1:1	internal	120,0	110,0	76	189	141	48	75	100	↺ ↻
<b>Without offset</b>															
173579	C5	-	100 Nm	6.500 / 6.500	i = 1:1	external	120,0	110,0	-	148	100	48	75	100	↺ ↻

# Angle Unit

Compatible machines with **BLUECOMPETENCE** » mimatic mi » PolyMILL » TriMILL » TrioCut » PolyREAM

for Manufacturer

**Mazak**

for Machine type

**MULTIPLEX 630 / 6300**

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

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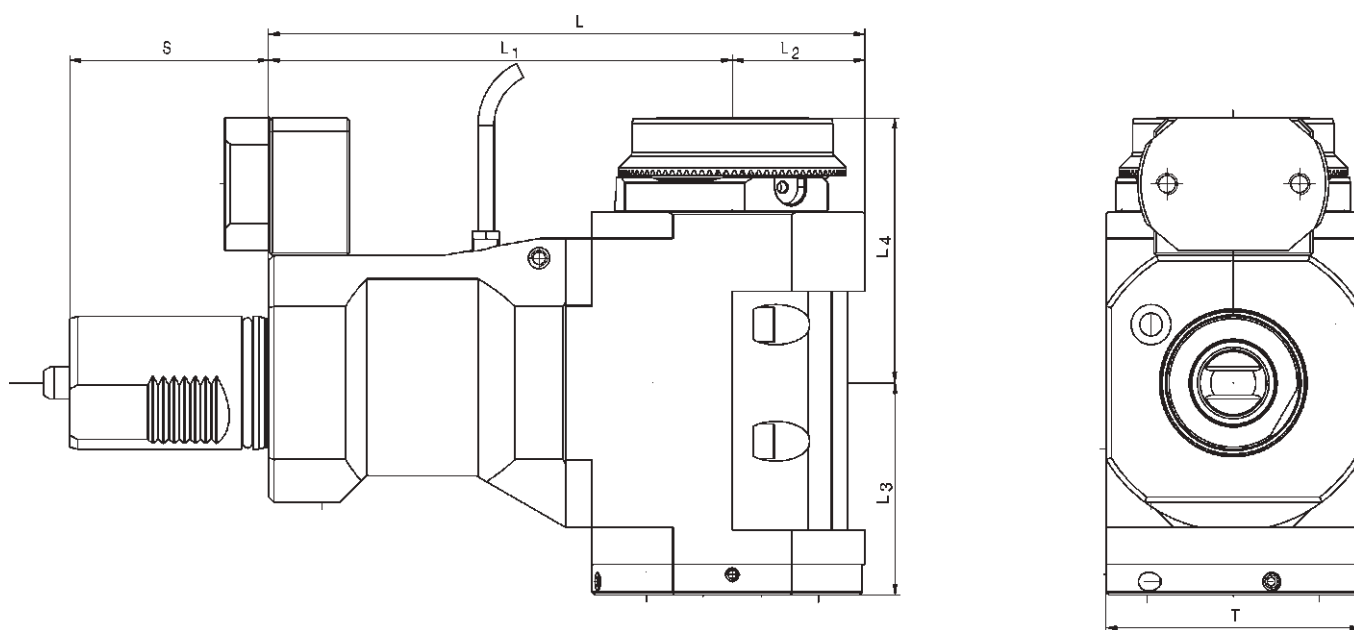
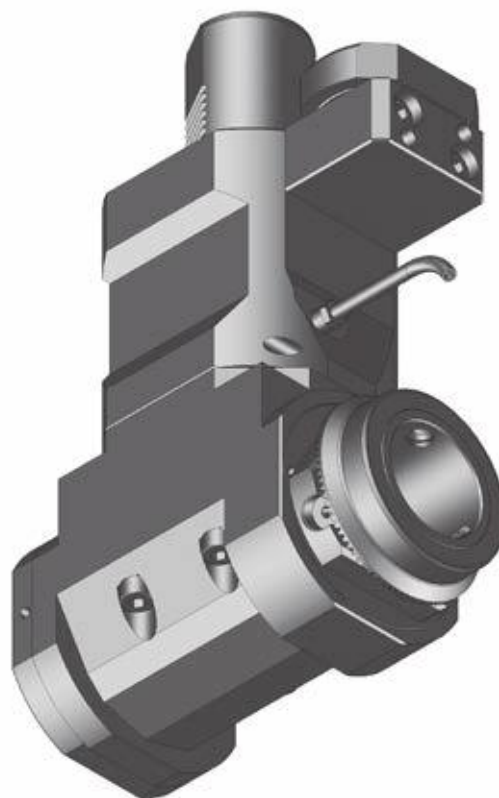
Dimensions

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

---

Modular Interfaces

**mimaticMi**  
**mimatic capto**



13

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	-	80 Nm	6.500 / 6.500	i = 1:1	external	225	175	50	80,0	100	75	96	↺ ↻
174863	SK/CAT 40	-	80 Nm	6.500 / 6.500	i = 1:1	internal	225	175	50	80,0	100	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 530

# Mazak

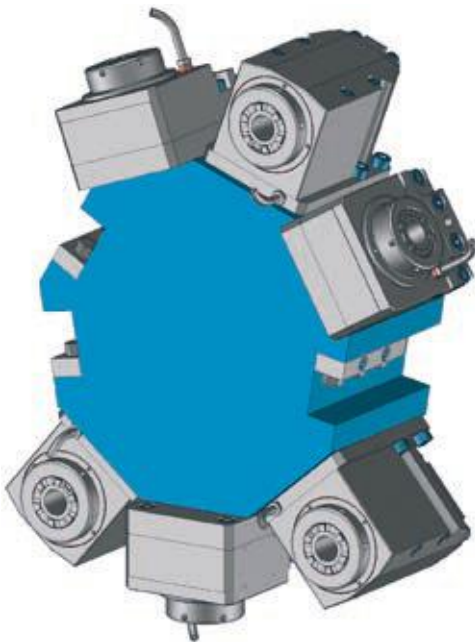
## INTEGREX IV ST + MULTIPLEX 8200

### Data

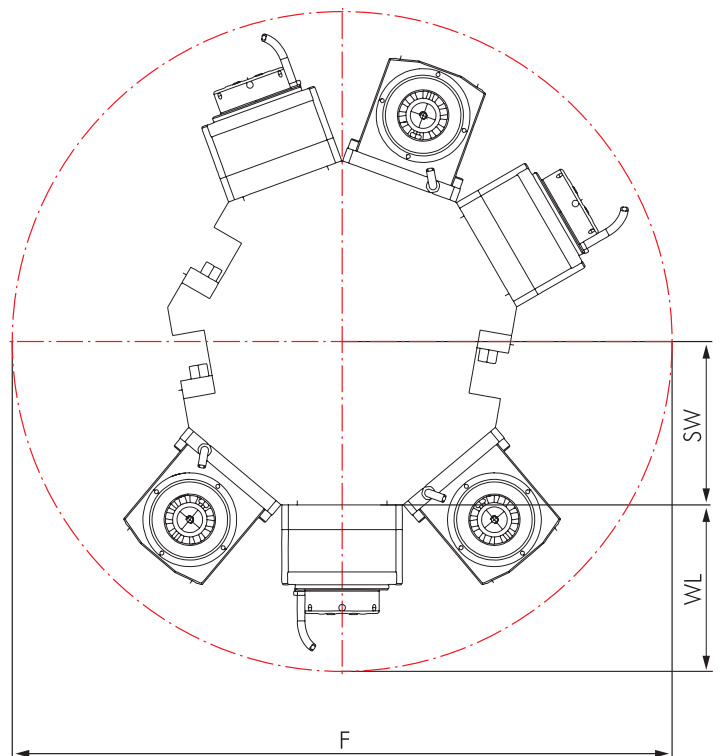
Machine type Series	Turret Stations
<b>Integrex 200/300/400 IV ST</b>	9
<b>Multiplex 8200</b> (only 3th turret)	9



### 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

**Live Tools**

	Page		Page
<b>Straight Unit, Offset Type</b>	330		
		<b>Angle Unit</b>	331
			

**Options and Accessories**

<b>Static Toolholders for MAZAK</b>		Static Toolholders Accessories	499-509 510-511
<b>Accessories</b>		Collets DIN 6499 Threading Collets Wrenches Clamping Nuts Sleeves and Bushings	526-527 528-529 525 525 531



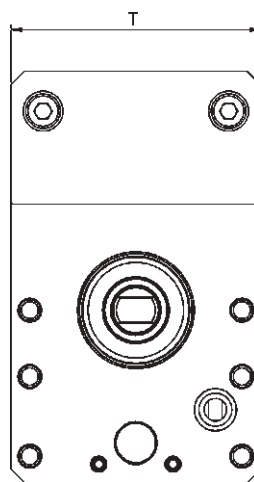
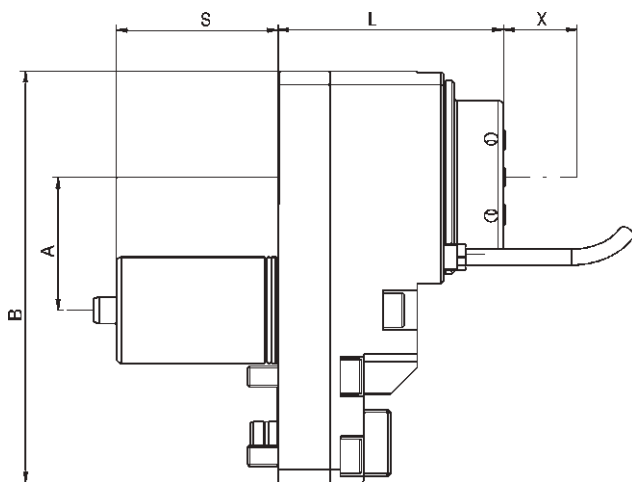
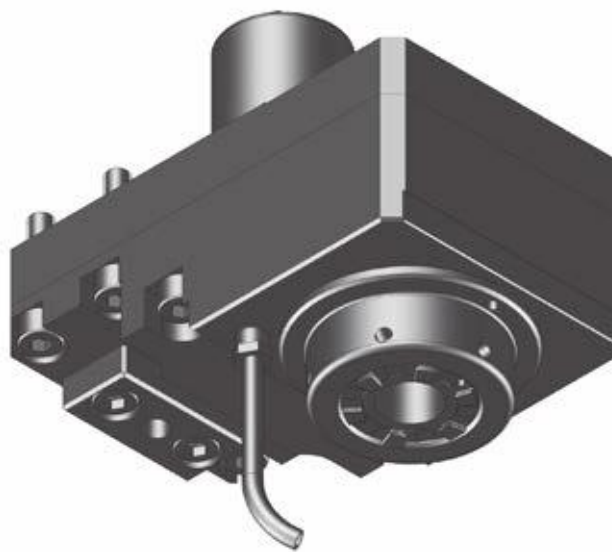
**Delivery information**

Driven toolholders with mi quick-change interface are supplied with operating wrench (see spare parts on page 479).  
Driven toolholders with other interfaces are supplied without clamping wrench (see accessories on page 525).

# Straight Unit, Offset Type

Compatible machines with **BLUECOMPETENCE** » PolyMILL » TriMILL » TrioCut » PolyREAM

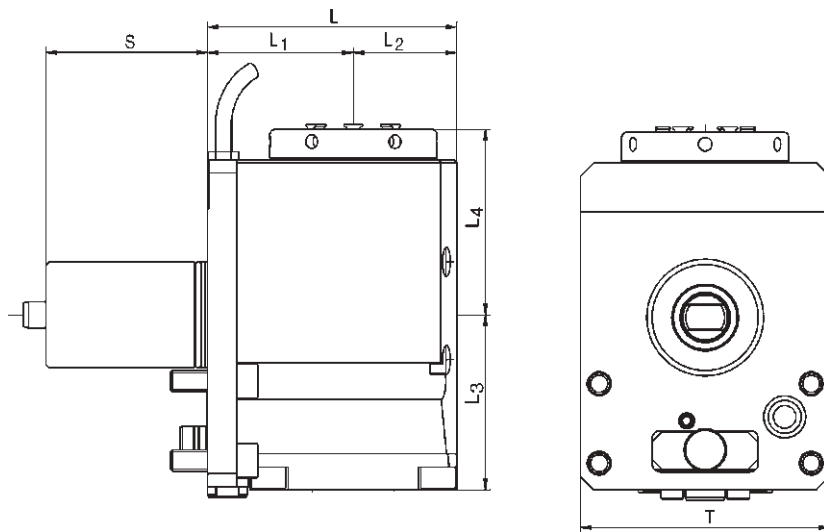
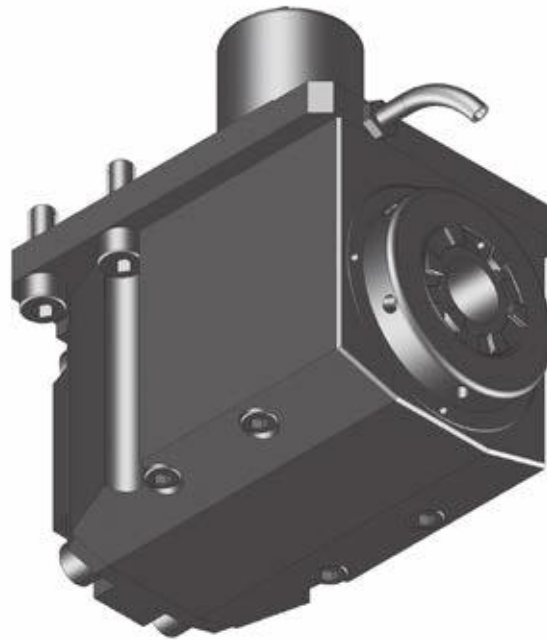
for Manufacturer	
<b>Mazak</b>	
for Machine Type	
<b>INTEGREX 200/300/400 IV ST</b> <b>MULTIPLEX 8200</b> (only 3th turret)	
<b>I</b>	<b>MP</b>
200 IV ST	8200
300 IV ST	
400 IV ST	
Dimensions	
Turret Type	Star-Type Turret
Shank	BMT Ø 40 mm
Drive	Tang
SW	10 mm



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
174606	ER 32	1,0-20	50 Nm	6.500 / 6.500	i = 1:1	external	94	55	39	66	70	61	94	↺ ↻



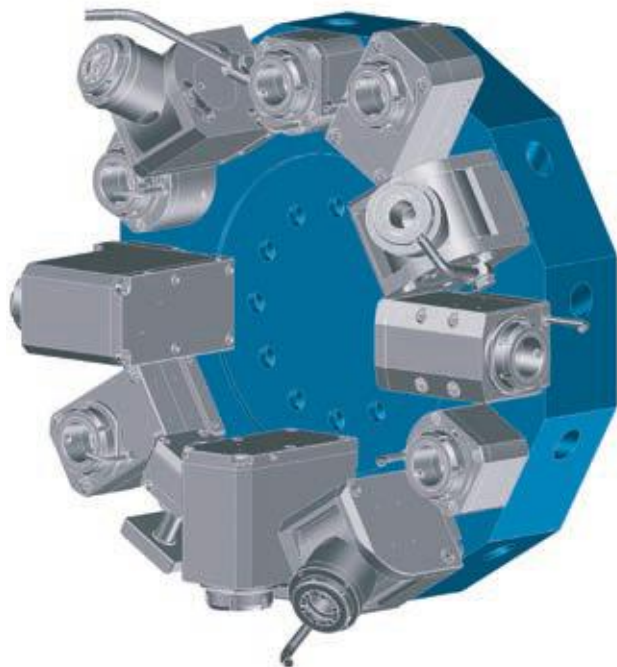
**LOKUMA LB 200 - M + ECO - M**

**Data**

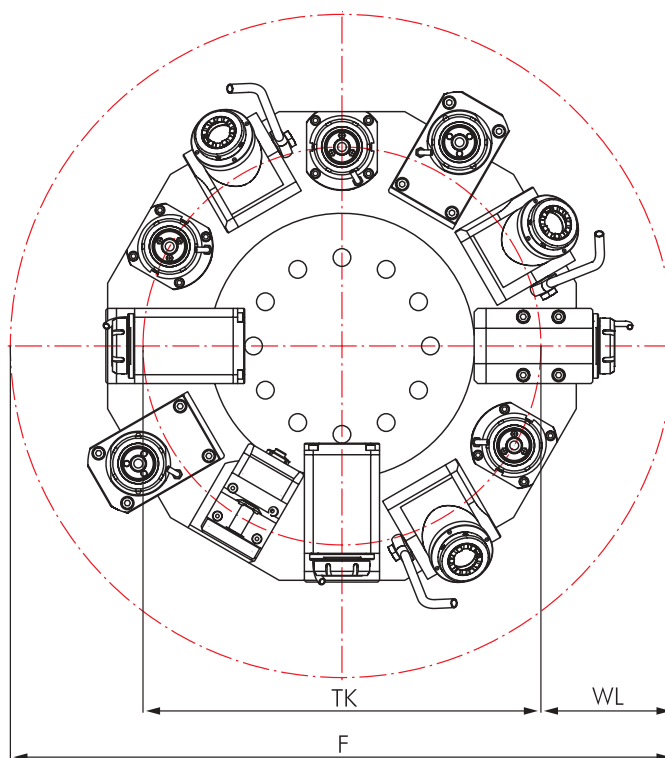
Machine type Series		Turret Stations
<b>LB 200</b>	<b>M</b>	12
<b>ECO ES-L8II</b>	<b>M</b>	12
<b>ECO ES-L6II</b>	<b>M</b>	12
<b>Genos L200</b>	<b>M</b>	12



**Disc-type Turret VDI 30**



**Interference Circles**



Machine type Series	F	TK	WL
<b>LB 200+ECO</b>	590	310	115
<b>ECO ES-L6II</b>	1)	1)	1)
<b>Genos L200</b>	1)	1)	1)

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

## Live Tools

	Page		Page
<b>Straight Unit</b>	334	<b>Angle Unit</b>	336
<b>Straight Unit, Offset Type</b>	335	<b>Angle Unit, Offset Type</b>	337
		<b>Angle Unit, adjustable 0-100°</b>	338

## Options and Accessories

<b>mi Toolholders</b>		mi System Description Toolholders Accessories	471 473-477 478-479
<b>Standard VDI Toolholders</b>		VDI Toolholders Accessories	518-524 525-531
<b>Accessories</b>		Collets DIN 6499 Threading Collets Wrenches Clamping Nuts Sleeves and Bushings	526-527 528-529 525 525 531



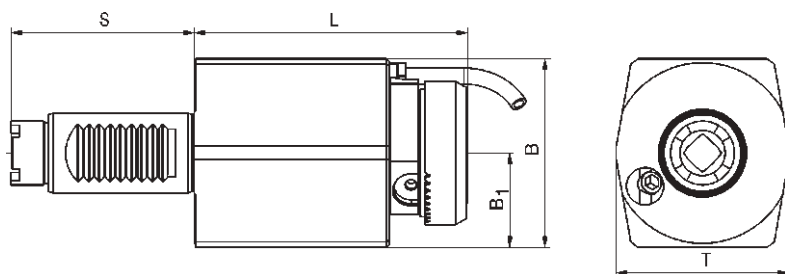
### Delivery information

Driven toolholders with mi quick-change interface are supplied with operating wrench (see spare parts on page 479).  
Driven toolholders with other interfaces are supplied without clamping wrench (see accessories on page 525).

# Straight Unit

Compatible accessories with **BLUECOMPETENCE** » mimatic mi » PolyMILL » TriMILL » TrioCut » PolyREAM

for Manufacturer	
<b>LOKUMA</b>	
for Machine type	
<b>LB 200-M, ECO ES-L6/L8II-M, Genos L200-M</b>	
Dimensions	
Revolver type	Disc-type Turret
Shank	VDI 30
Drive	single level
Graduation	30 / 60°
Modular Interfaces	
<b>mimaticMi</b>	

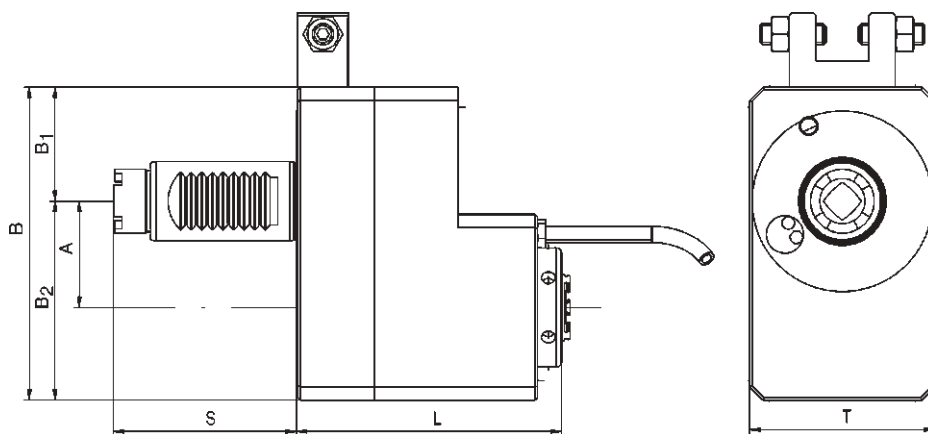
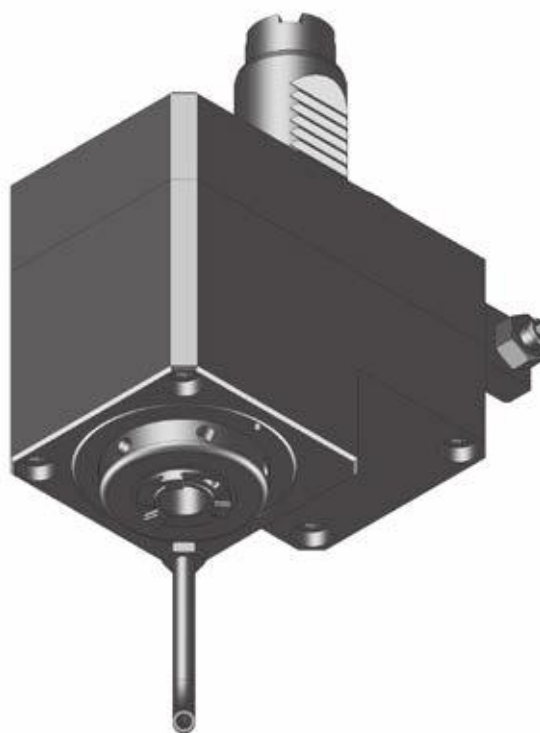


Order No.	Tool holder	Clamping range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	L mm	B mm	B1 mm	S mm	T mm	Rotating direction
133715	ER 25	0,5-16	40 Nm	6.500 / 6.500	i = 1:1	external	81	70	35,0	69	70	↺ ↻
133710	ER 25*	0,5-16	40 Nm	6.500 / 6.500	i = 1:1	internal	81	70	35,0	69	70	↺ ↻
133734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

# Straight Unit, Offset Type

Compatible accessories with **BLUECOMPETENCE** » PolyMILL » TriMILL » TrioCut » PolyREAM

for Manufacturer	
<b>LOKUMA</b>	
for Machine type	
<b>LB 200-M, ECO ES-L6/L8II-M, Genos L200-M</b>	
Dimensions	
Revolver type	Disc-type Turret
Shank	VDI 30
Drive	single level
Graduation	30 / 60°



13

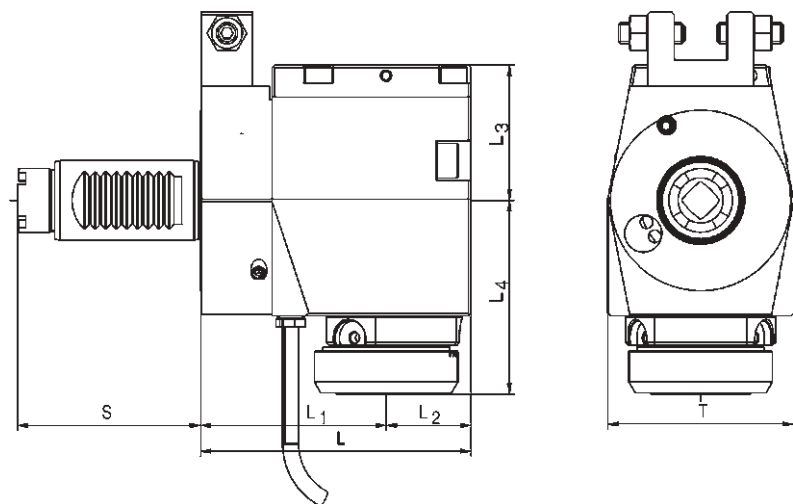
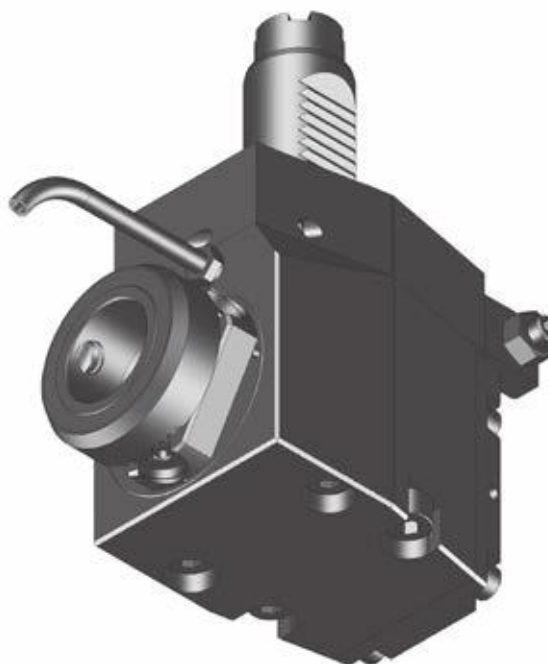
Order No.	Tool holder	Clamping range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	L mm	A mm	B mm	B1 mm	B2 mm	S mm	T mm	Rotating direction
176305	ER 25	0,5-16	10 Nm	6.500 / 13.000	i = 1:2	external	100	40	118	75	43	69	70	↺ ↻
176304	ER 25*	0,5-16	10 Nm	6.500 / 13.000	i = 1:2	internal	100	40	118	75	43	69	70	↻ ↺

\* With clamping nuts with sealing, seals see page 530

# Angle Unit

Connectible accessories with **BLUECOMPETENCE** » mimatic mi » PolyMILL » TriMILL » TrioCut » PolyREAM

for Manufacturer	
<b>LOKUMA</b>	
for Machine type	
<b>LB 200-M, ECO ES-L6/L8II-M, Genos L200-M</b>	
Dimensions	
Revolver type	Disc-type Turret
Shank	VDI 30
Drive	single level
Graduation	30 / 60°
Modular Interfaces	
<b>mimaticMi</b>	

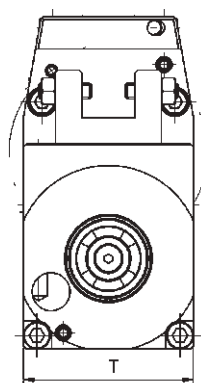
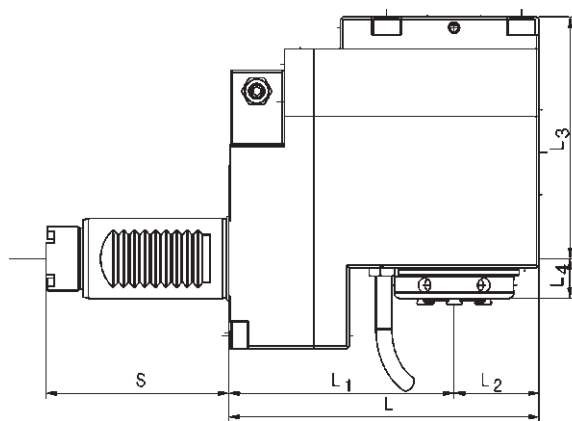
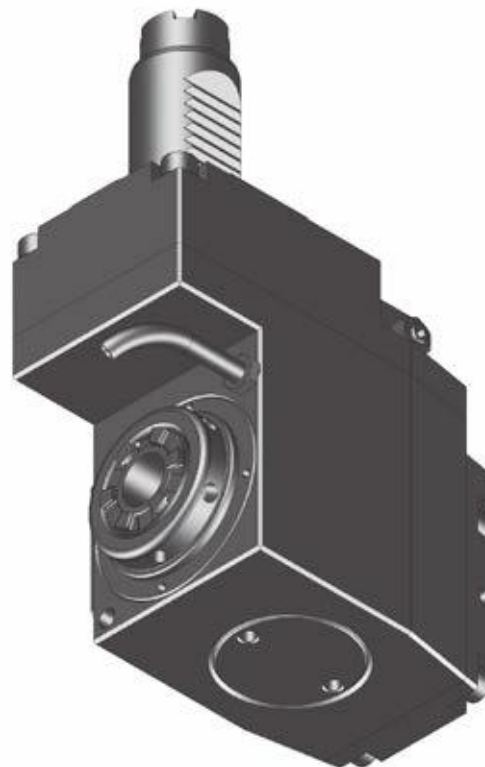


Order No.	Tool holder	Clamping range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	L mm	L1 mm	L2 mm	L3 mm	L4 mm	S mm	T mm	Rotating direction
103496	ER 25	0,5-16	30 Nm	6.500 / 6.500	i = 1:1	external	104	70	34	60,5	58	69	76	↺ ↻
103520	ER 25*	0,5-16	30 Nm	6.500 / 6.500	i = 1:1	internal	104	70	34	60,5	58	69	76	↻ ↺
103537	mi 40	-	30 Nm	6.500 / 6.500	i = 1:1	internal	102	70	32	51,0	73	69	70	↻ ↺
176325	ER 20	0,5-13	20 Nm	6.500 / 12.000	i = 1:2	external	105	70	35	62,0	62	69	70	↻ ↺
176324	ER 20*	0,5-13	20 Nm	6.500 / 12.000	i = 1:2	internal	105	70	35	62,0	62	69	70	↺ ↻

# Angle Unit, Offset Type

Compatible accessories with **BLUECOMPETENCE** » PolyMILL » TriMILL » TrioCut » PolyREAM

for Manufacturer	
<b>LOKUMA</b>	
for Machine type	
<b>LB 200-M, ECO ES-L6/L8II-M, Genos L200-M</b>	
Dimensions	
Revolver type	Disc-type Turret
Shank	VDI 30
Drive	single level
Graduation	30 / 60°



13

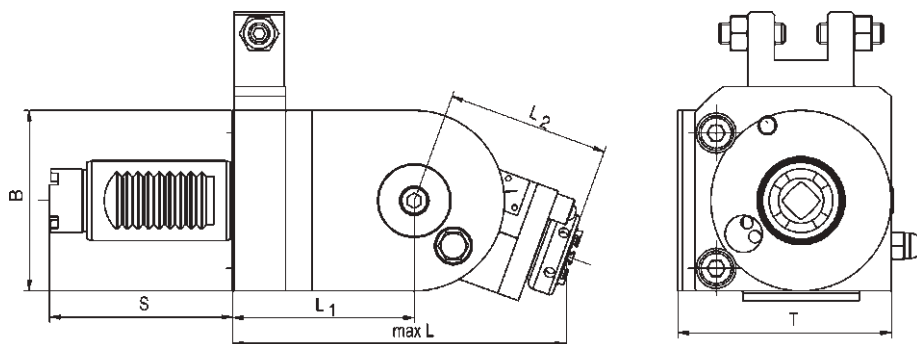
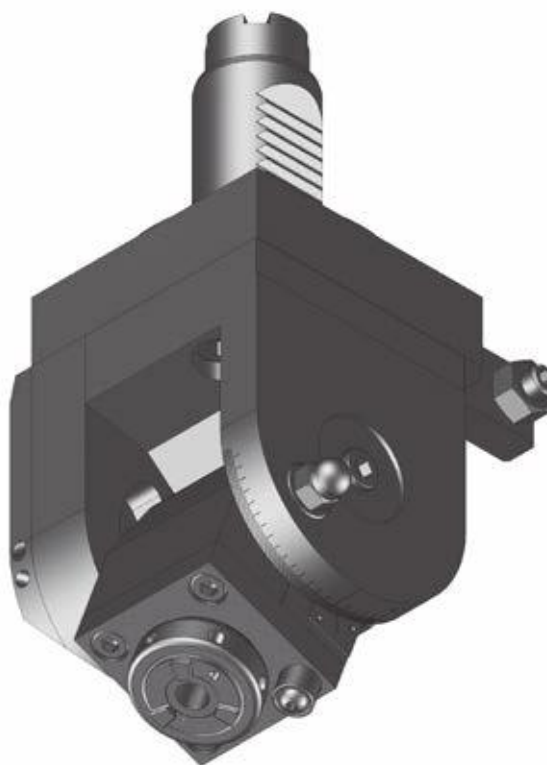
Order No.	Tool holder	Clamping range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	L mm	L1 mm	L2 mm	L3 mm	L4 mm	S mm	T mm	Rotating direction
176270	ER 25	0,5-16	30 Nm	6.500 / 6.500	i = 1:1	external	117	85	32	91	15	69	64	↻ ↻
176271	ER 25*	0,5-16	30 Nm	6.500 / 6.500	i = 1:1	internal	117	85	32	91	15	69	64	↻ ↻

\* With clamping nuts with sealing, seals see page 530

# Angle Unit, Adjustable 0-100°

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

for Manufacturer	
<b>LOKUMA</b>	
for Machine type	
<b>LB 200-M, ECO ES-L6/L8II-M, Genos L200-M</b>	
Dimensions	
Revolver type	Disc-type Turret
Shank	VDI 30
Drive	single level
Graduation	30 / 60°



Order No.	Tool holder	Clamping range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	L mm	L1 mm	L2 mm	B mm	S mm	T mm	Rotating direction
176291	ER 16	0,5-10	6 Nm	6.500 / 6.500	i = 1:1	external	131	68,5	62	77	69	81	↻ ↻
176293	ER 16*	0,5-10	6 Nm	6.500 / 6.500	i = 1:1	internal	131	68,5	62	77	69	81	↻ ↻

# AGMILL

The mimatic Concept of Sustainability for the Milling Operation

**BLUECOMPETENCE**

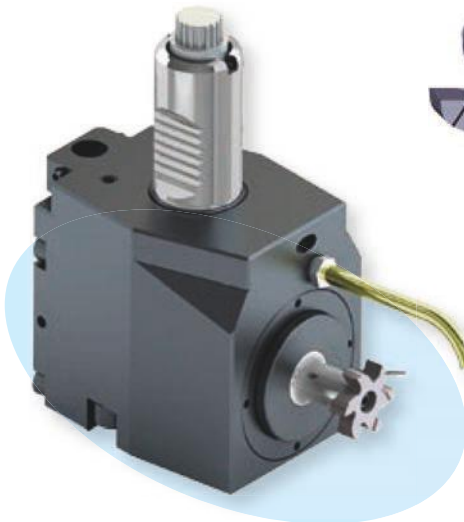
Alliance Member

Partner of the Engineering Industry Sustainability Initiative

## AGMILL =

Live Tools + Polygon Interface + PolyMILL Insert

### AGMILL



### PolyMILL



## Advantages

### Fewer Interfaces

- lower tolerances
- better true running
- longer operating life
- shorter form of structure

### Rapid Changing of the CT-CI

- loosen a screw
- planar arrangement
- no pre-adjustment necessary
- self-centring

## The mimatic Modular Set

- ✓ 4,000 Live Tools
- ✓ 2,000 Angle Heads
- ✓ 2,500 PolyMILL Inserts

## Modular Sets Available to mimatic Customers

4,000 completed live tools for turning machines, 250 of which are from the mimatic main catalogue

2,000 completed angle heads for machining centers, 108 of which are from the mimatic main catalogue

4 different sizes of polygonal PolyMILL interface

Approx. 2,500 completed PolyMILL CI inserts for cutting threads and grooves, fronts or contours. 200 of these are from the mimatic main catalogue from stock.



# LOKUMA

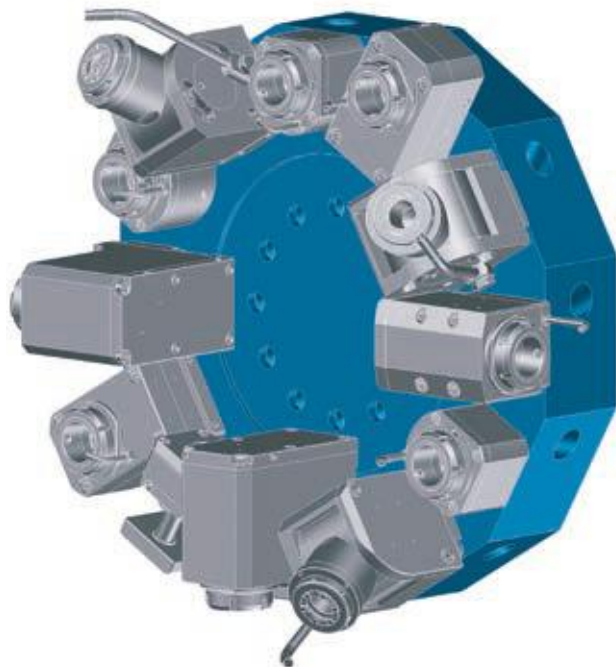
## LB 300 - M/MY / LU 300 - M/MY

### Data

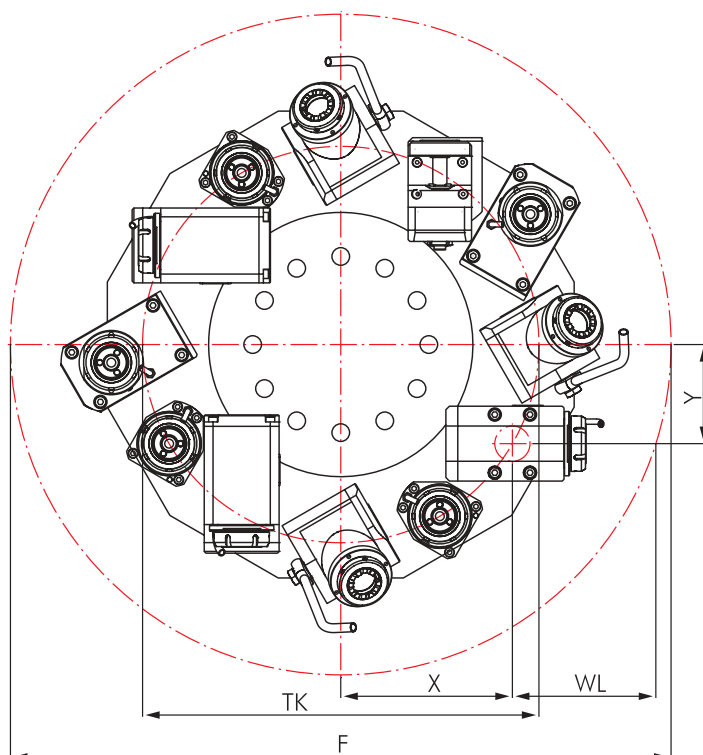
Machine type Series	Turret Stations
<b>LB 300</b> <b>M / MY</b>	12
<b>LU 300</b> <b>M / MY</b>	12
<b>ES-L 10</b> <b>M</b>	
<b>Captain L 370</b>	
<b>Genos L 300</b> <b>M</b>	



### Disc-type Turret VDI 40



### Interference Circles



Machine type Series	F	TK	X	Y	WL
<b>LB/LU 300 M</b>	690	386	185	55	155
<b>LB/LU 300 MY</b>	700	448	175	140	145
<b>ES-L 10 M</b>	1)	1)	1)	1)	1)
<b>Captain L 370</b>	1)	1)	1)	1)	1)
<b>Genos L 300 M</b>	1)	1)	1)	1)	1)

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



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

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

## Live Tools

	Page		Page
<b>Straight Unit</b>	342	<b>Angle Unit</b>	344
<b>Straight Unit, Offset Type</b>	343	<b>Angle Unit, adjustable 0-100°</b>	345

## Options and Accessories

<b>mi Toolholders</b>		mi System Description Toolholders Accessories	471 473-477 478-479
<b>Standard VDI Toolholders</b>		VDI Toolholders Accessories	518-524 525-531
<b>Accessories</b>		Collets DIN 6499 Threading Collets Wrenches Clamping Nuts Sleeves and Bushings	526-527 528-529 525 525 531



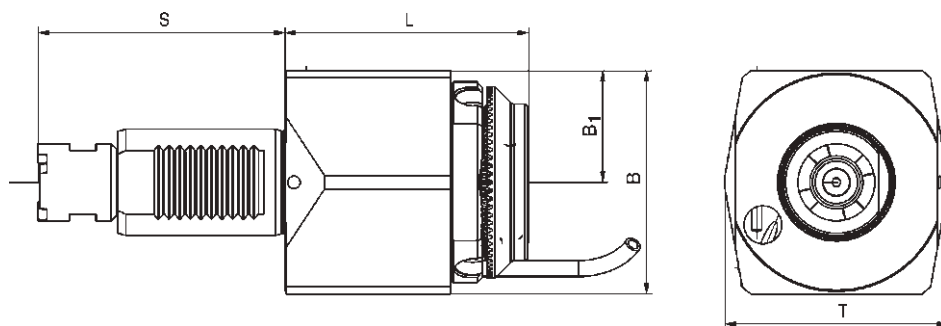
### Delivery information

Driven toolholders with mi quick-change interface are supplied with operating wrench (see spare parts on page 479).  
Driven toolholders with other interfaces are supplied without clamping wrench (see accessories on page 525).

# Straight Unit

Compatible accessories with **BLUECOMPETENCE** » mimatic mi » PolyMILL » TriMILL » TrioCut » PolyREAM

for Manufacturer	
<b>LOKUMA</b>	
for Machine type	
<b>LB/LU 300 - M/MY, ES-L 10 M Captain L 370, Genos L 300 M</b>	
Dimensions	
Revolver type	Disc-type Turret
Shank	VDI 40
Drive	single level
Graduation	30 / 60°
Modular Interfaces	
<b>mimaticMi</b>	

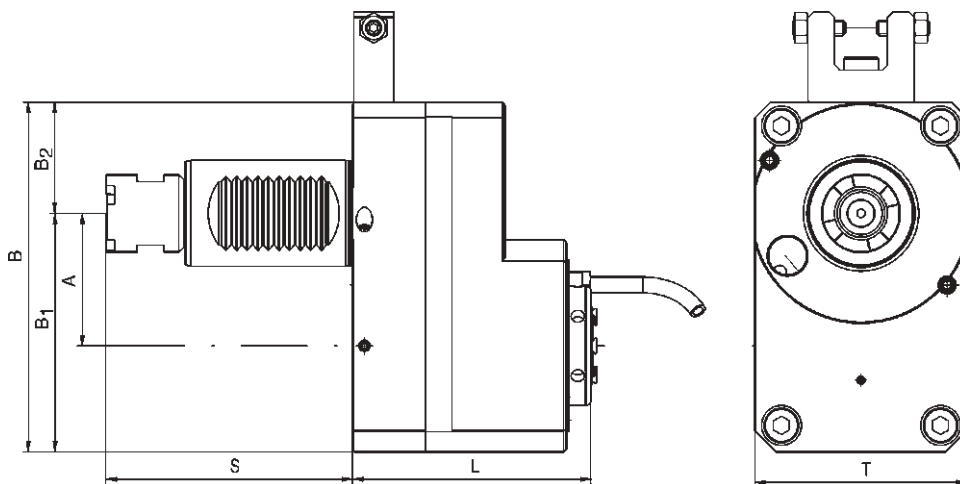
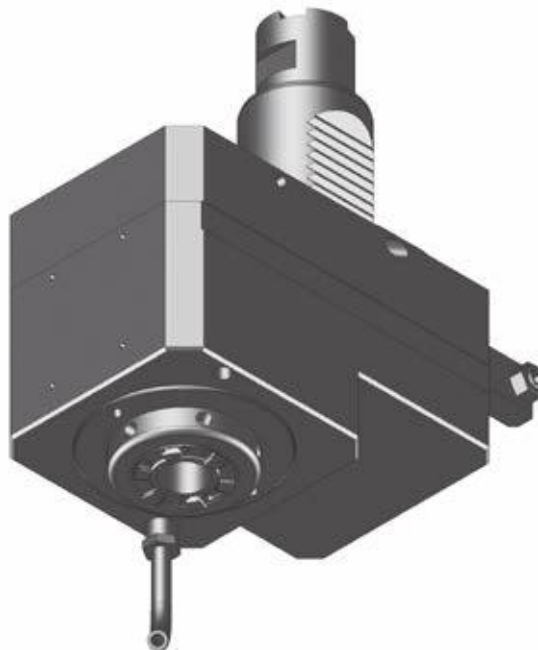


Order No.	Tool holder	Clamping range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	L mm	B mm	B1 mm	S mm	T mm	Rotating direction
103441	ER 32	1,0-20	80 Nm	6.500 / 6.500	i = 1:1	external	75,5	87	38	93	75	↻ ↻
133711	ER 32*	1,0-20	80 Nm	6.500 / 6.500	i = 1:1	internal	75,5	87	38	93	75	↻ ↻
133712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

# Straight Unit, Offset Type

Compatible accessories with **BLUECOMPETENCE** » PolyMILL » TriMILL » TrioCut » PolyREAM

for Manufacturer	
<b>LOKUMA</b>	
for Machine type	
<b>LB/LU 300 - M/MY, ES-L 10 M Captain L 370, Genos L 300 M</b>	
Dimensions	
Revolver type	Disc-type Turret
Shank	VDI 40
Drive	single level
Graduation	30 / 60°



13

Order No.	Tool holder	Clamping range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	L mm	A mm	B mm	B1 mm	B2 mm	S mm	T mm	Rotating direction
176332	ER 25	0,5-16	20 Nm	6.500 / 13.000	i = 1:2	external	90	50	132	90	42	93	80	↺ ↻
176331	ER 25	0,5-16	20 Nm	6.500 / 13.000	i = 1:2	internal	90	50	132	90	42	93	80	↻ ↺

# Angle Unit

Compatible accessories with **BLUECOMPETENCE** » mimatic mi » PolyMILL » TriMILL » TrioCut » PolyREAM

for Manufacturer

**LOKUMA**

for Machine type

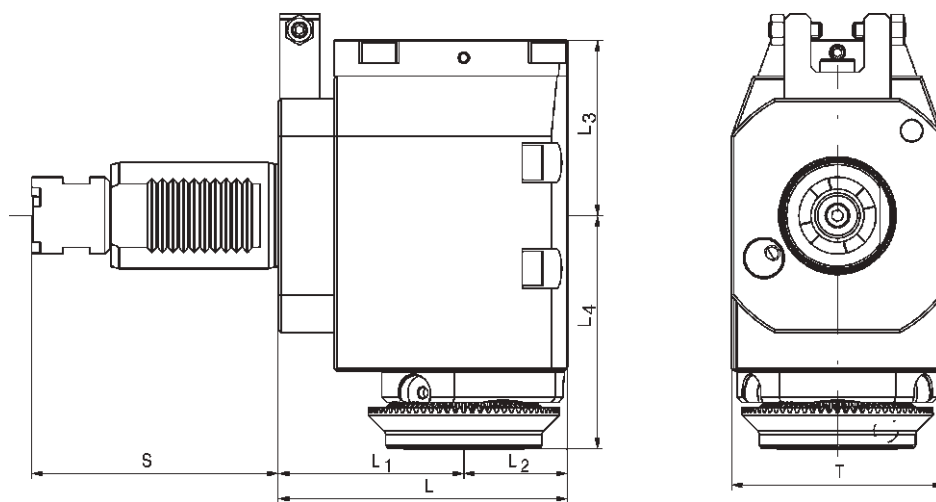
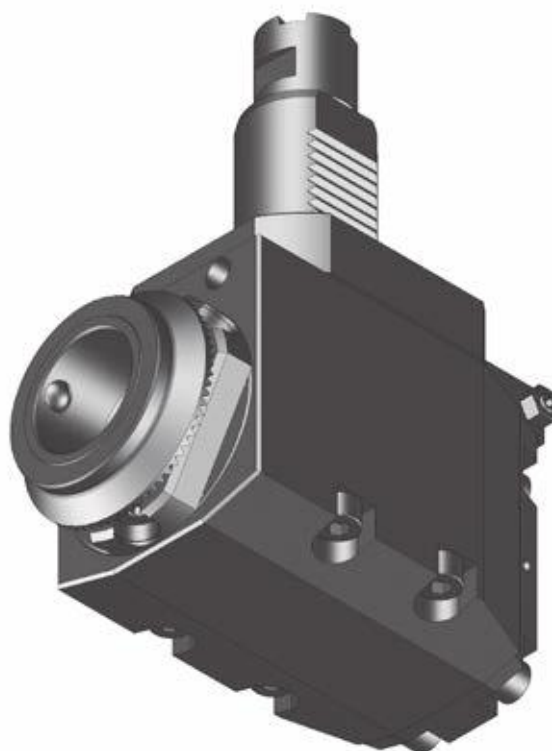
**LB/LU 300 - M/MY, ES-L 10 M  
Captain L 370, Genos L 300 M**

Dimensions

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

Modular Interfaces

**mimaticMi**

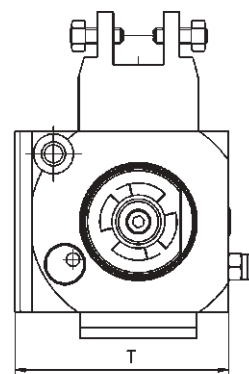
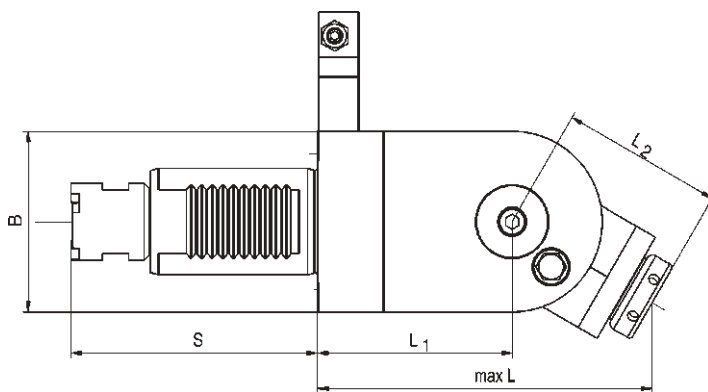
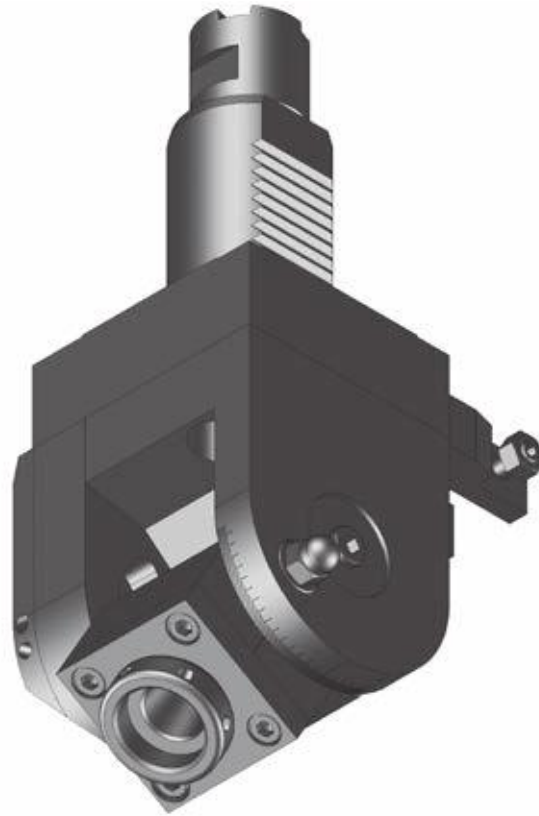


Order No.	Tool holder	Clamping range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	L mm	L1 mm	L2 mm	L3 mm	L4 mm	S mm	T mm	Rotating direction
103497	ER 32	1,0-20	50 Nm	6.500 / 6.500	i = 1:1	external	109	70	39	66	70	93	80	↺ ↻
133716	ER 32*	1,0-20	50 Nm	6.500 / 6.500	i = 1:1	internal	109	70	39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

# Angle Unit, Adjustable 0-100°

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

for Turret Manufacturer	
<b>LOKUMA</b>	
with Drive	
<b>LB/LU 300 - M/MY, ES-L 10 M Captain L 370, Genos L 300 M</b>	
Dimensions	
Revolver type	Disc-type Turret
Shank	VDI 40
Drive	30 / 60°



13

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
101727	ER 16	0,5-10	6 Nm	6.500 / 6.500	i = 1:1	external	134,5	73,5	61	68	93	90	↺ ↻

**LOKUMA**

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

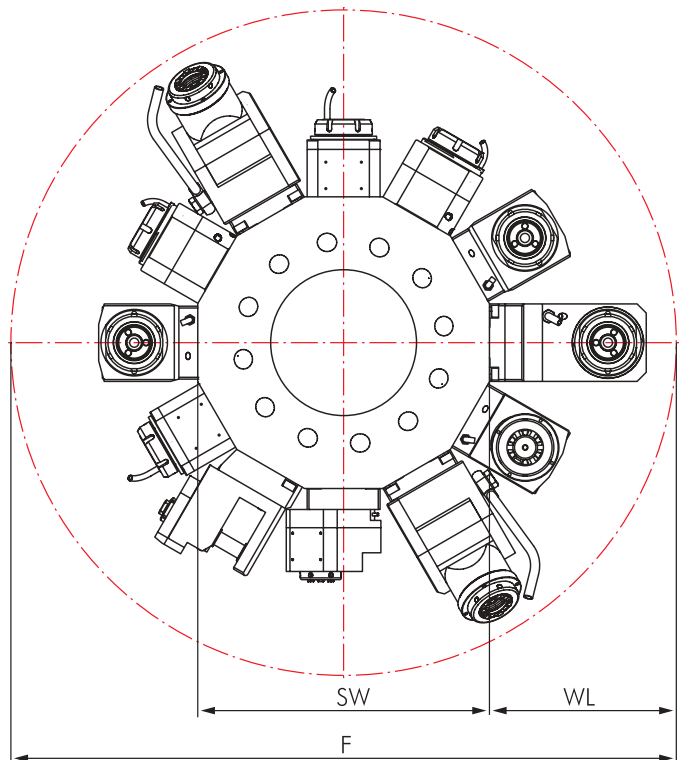
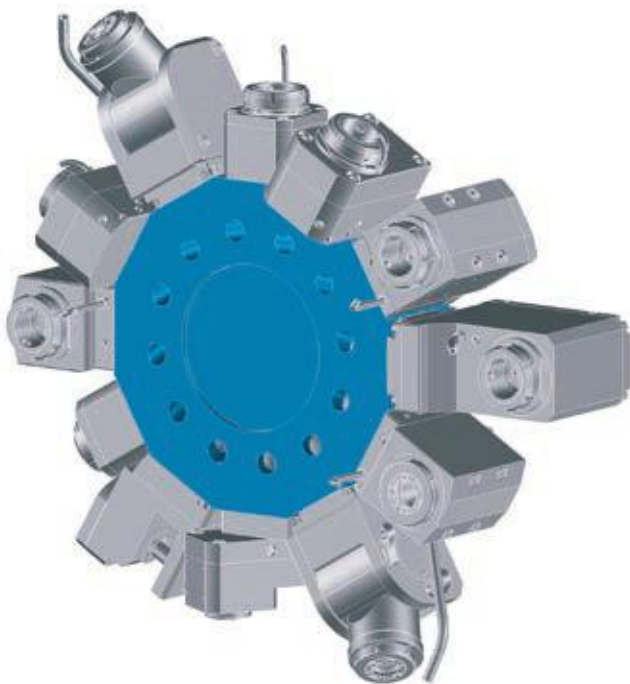
**Data**

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



**Star-type Turret VDI 40**

**Interference Circles**





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



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

Connectable to second order with **BLUECOMPETENCE** » mimatic mi » PolyMILL » TriMILL » TrioCut » PolyREAM

**Live Tools**

	Page		Page
<b>Straight Unit</b>		348	
<b>Angle Unit</b>			349-350

**Options and Accessories**

<b>mi Toolholders</b>		mi System Description Toolholders Accessories	471 473-477 478-479
<b>Standard VDI Toolholders</b>		VDI Toolholders Accessories	518-524 525-531
<b>Accessories</b>		Collets DIN 6499 Threading Collets Wrenches Clamping Nuts Sleeves and Bushings	526-527 528-529 525 525 531



**Delivery information**

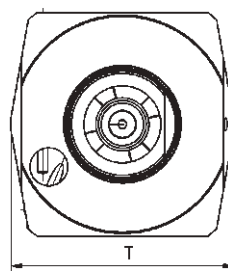
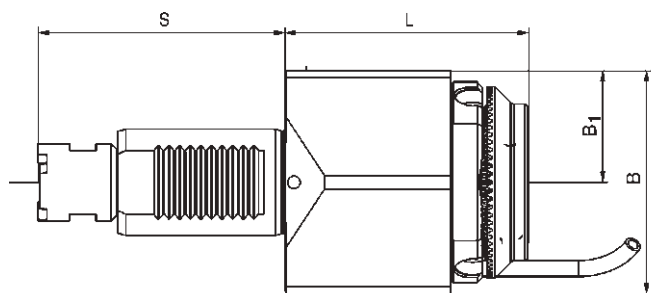
Driven toolholders with mi quick-change interface are supplied with operating wrench (see spare parts on page 479).  
Driven toolholders with other interfaces are supplied without clamping wrench (see accessories on page 525).



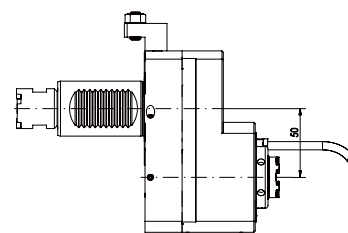
# Straight Unit

Compatible machines and systems with **BLUECOMPETENCE** » mimatic mi » PolyMILL » TriMILL » TrioCut » PolyREAM

for Manufacturer	
<b>LOKUMA</b>	
for Machine type	
<b>LB 300 - MW / MYW</b> <b>LT 300 - M / MY</b>	
Dimensions	
Revolver type	Star-type Turret
Shank	VDI 40
Drive	Layer gear; single level
Graduation	30 / 60°
Modular Interfaces	
<b>mimaticMi</b>	



With offset:




Order No.	Tool holder	Clamping range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	L mm	B mm	B1 mm	S mm	T mm	Rotating direction
103441	ER 32	1,0-20	80 Nm	6.500 / 6.500	i = 1:1	external	75,5	87	38	93	75	↺ ↻
133711	ER 32*	1,0-20	80 Nm	6.500 / 6.500	i = 1:1	internal	75,5	87	38	93	75	↺ ↻
133712	mi 50	-	80 Nm	6.500 / 6.500	i = 1:1	internal	92,0	84	42	93	84	↺ ↻
With offset 50 mm:												
103644	ER 25*	0,5-16	20 Nm	6.500 / 13.000	i = 1:2	internal	90,0	132	42	93	80	↺ ↻

# Angle Unit, Left-hand Version for Main-Spindle

Connectible accessories with **BLUECOMPETENCE** » mimatic mi » PolyMILL » TriMILL » TrioCut » PolyREAM

for Manufacturer



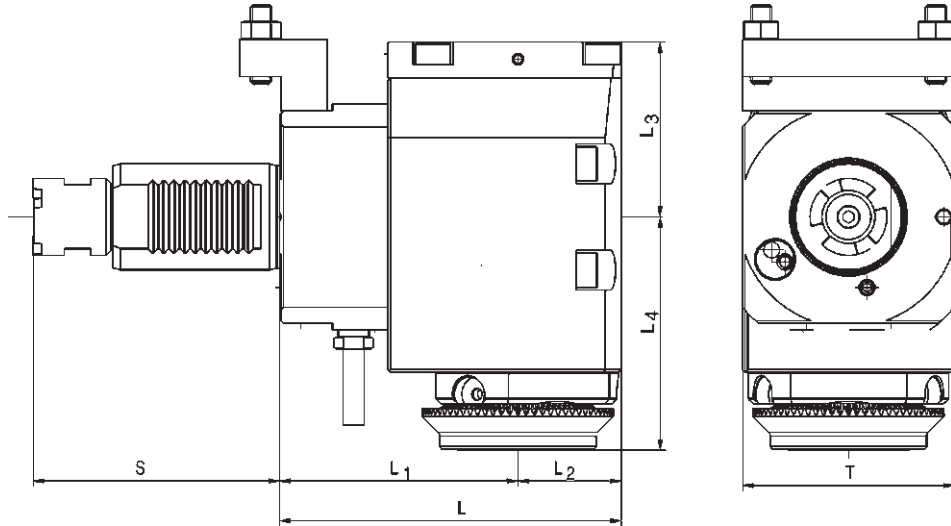
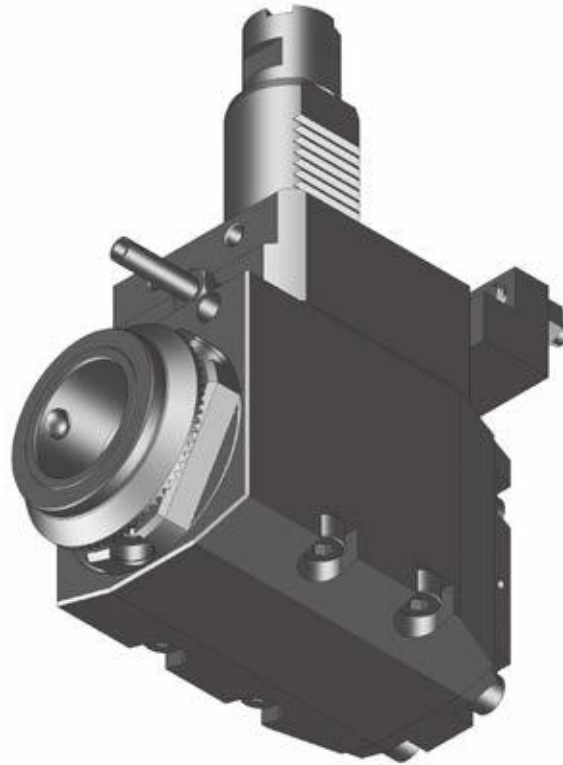
for Machine type

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

Dimensions

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

Modular Interfaces

13

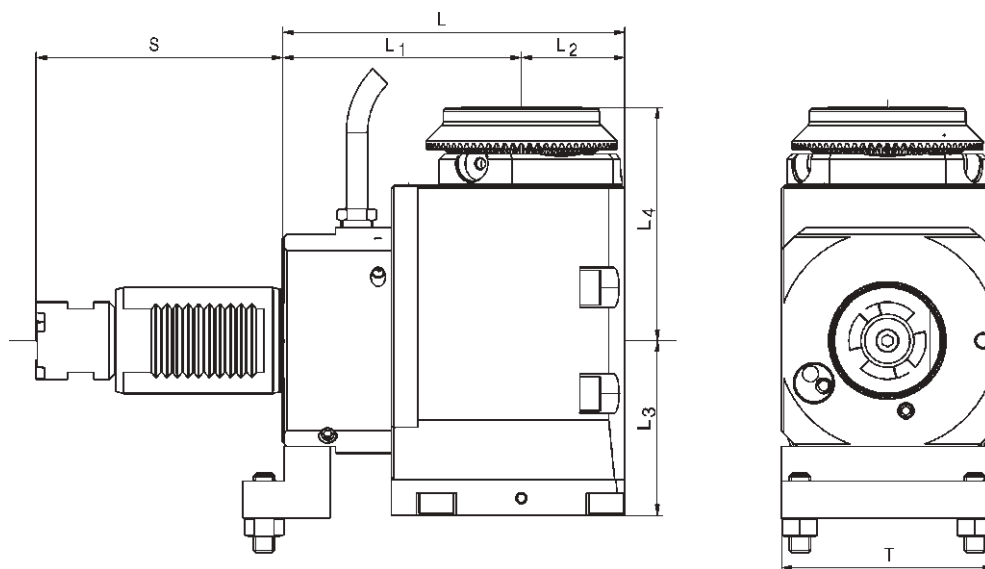
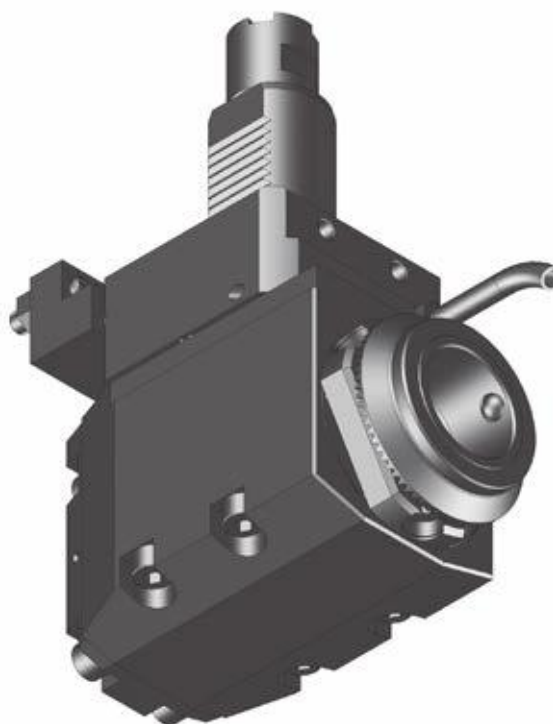
Order No.	Tool holder	Clamping range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	L mm	L1 mm	L2 mm	L3 mm	L4 mm	S mm	T mm	Rotating direction
133704	ER 32	1,0-20	50 Nm	6.500 / 6.500	i = 1:1	external	129	90	39	66,0	70	93	80	↺ ↻
103478	ER 32*	1,0-20	50 Nm	6.500 / 6.500	i = 1:1	internal	129	90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

\* With clamping nuts with sealing, seals see page 530

# Angle Unit, Right-hand Version for Sub-Spindle

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

for Manufacturer	
for Machine type	
<b>LB 300 - MW / MYW</b> <b>LT 300 - M / MY</b>	
Dimensions	
Revolver type	Star-type Turret
Shank	VDI 40
Drive	Layer gear; single level
Graduation	30 / 60°
Modular Interfaces	



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
103471	ER 32	1,0-20	50 Nm	6.500 / 6.500	i = 1:1	external	129	90	39	66	70	93	80	
124845	ER 32*	1,0-20	50 Nm	6.500 / 6.500	i = 1:1	internal	129	90	39	66	70	93	80	
103523	mi 50	-	50 Nm	6.500 / 6.500	i = 1:1	internal	129	90	39	66	88	93	80	

**BLUECOMPETENCE**

Alliance Member

Partner of the Engineering Industry  
Sustainability Initiative



13

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

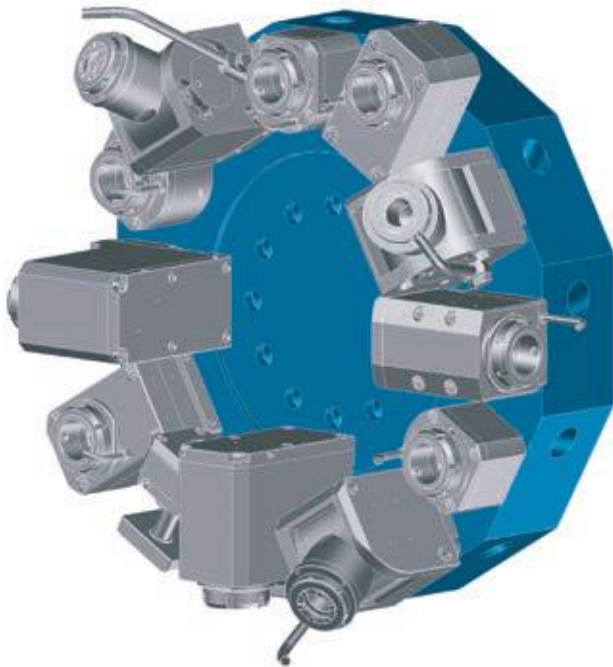
**LOKUMA LVT 300 - M**

**Data**

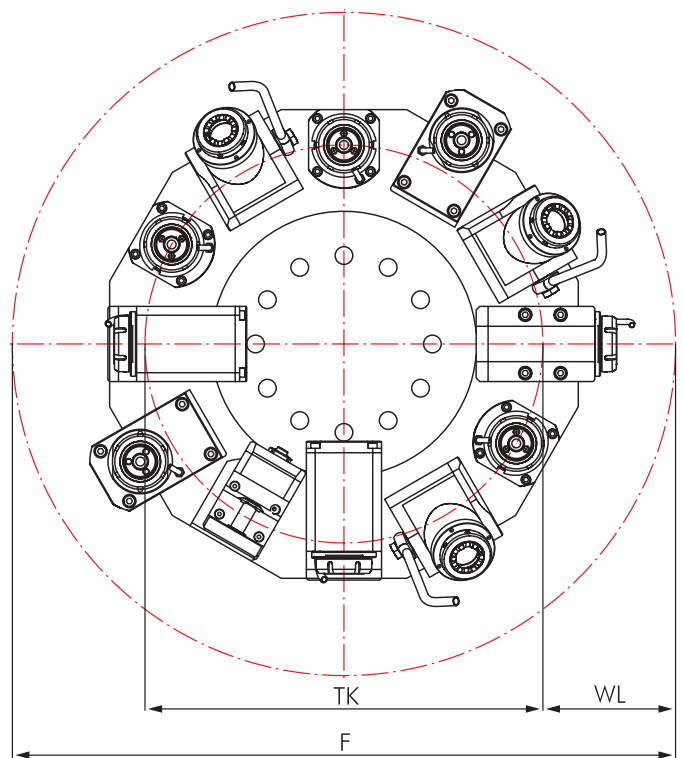
Machine type Series	Turret Stations
<b>LVT 300 M</b>	12



**Disc-type Turret VDI 40**





**Interference Circles**



Machine type Series	F	TK	WL
<b>LVT 300</b>	731	376	177

## Live Tools

	Page		Page
<b>Straight Unit</b>		354	
<b>Angle Unit</b>			355

## Options and Accessories

<b>mi Toolholders</b>		mi System Description Toolholders Accessories	471 473-477 478-479
<b>Standard VDI Toolholders</b>		VDI Toolholders Accessories	518-524 525-531
<b>Accessories</b>		Collets DIN 6499 Threading Collets Wrenches Clamping Nuts Sleeves and Bushings	526-527 528-529 525 525 531



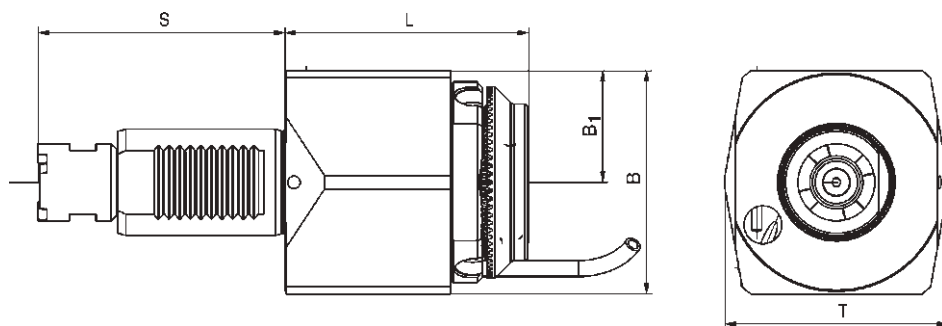
### Delivery information

Driven toolholders with mi quick-change interface are supplied with operating wrench (see spare parts on page 479).  
Driven toolholders with other interfaces are supplied without clamping wrench (see accessories on page 525).

# Straight Unit

Compatible accessories with **BLUECOMPETENCE** » mimatic mi » PolyMILL » TriMILL » TrioCut » PolyREAM

for Manufacturer	
<b>LOKUMA</b>	
for Machine type	
<b>LVT 300 - M</b>	
Dimensions	
Revolver type	Disc-type Turret
Shank	VDI 40
Drive	Layer gear; single level
Graduation	30 / 60°
Modular Interfaces	
<b>mimaticMi</b>	

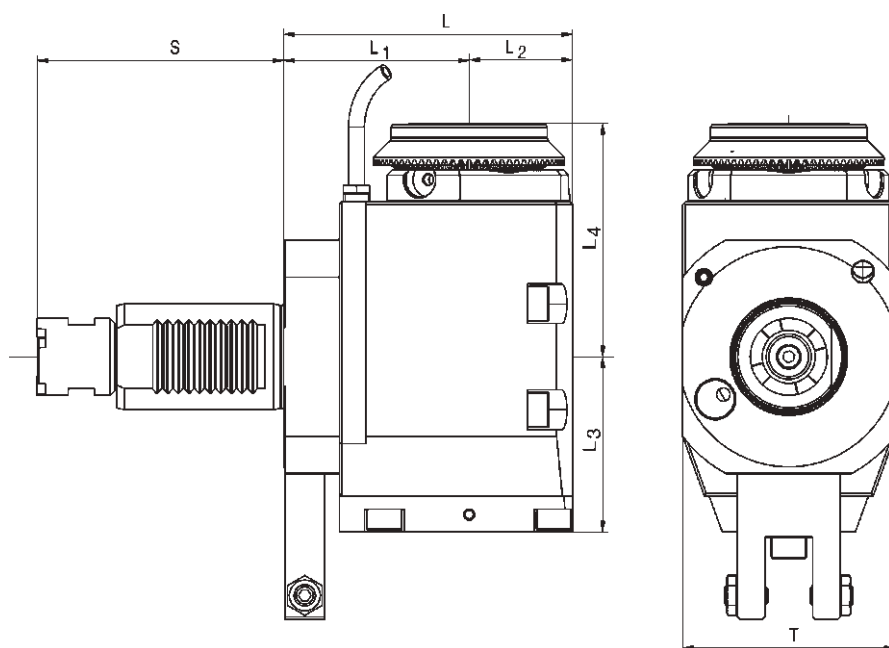


Order No.	Tool holder	Clamping range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	L mm	B mm	B1 mm	S mm	T mm	Rotating direction
103441	ER 32	1,0-20	80 Nm	6.500 / 6.500	i = 1:1	external	75,5	87	38	93	75	↻ ↻
133711	ER 32*	1,0-20	80 Nm	6.500 / 6.500	i = 1:1	internal	75,5	87	38	93	75	↻ ↻
133712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

# Angle Unit

Compatible accessories with **BLUECOMPETENCE** » mimatic mi » PolyMILL » TriMILL » TrioCut » PolyREAM

for Manufacturer	
<b>LOKUMA</b>	
for Machine type	
<b>LVT 300 - M</b>	
Dimensions	
Revolver type	Disc-type Turret
Shank	VDI 40
Drive	Layer gear; single level
Graduation	30 / 60°
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
103528	ER 32	1,0-20	50 Nm	6.500 / 6.500	i = 1:1	external	109	70	39	66	70	93	80	↺ ↻
133717	ER 32*	1,0-20	50 Nm	6.500 / 6.500	i = 1:1	internal	109	70	39	66	70	93	80	↻ ↺
103486	mi 50	-	50 Nm	6.500 / 6.500	i = 1:1	internal	109	70	39	66	88	93	80	↻ ↺

\* With clamping nuts with sealing, seals see page 530



**LOKUMA**

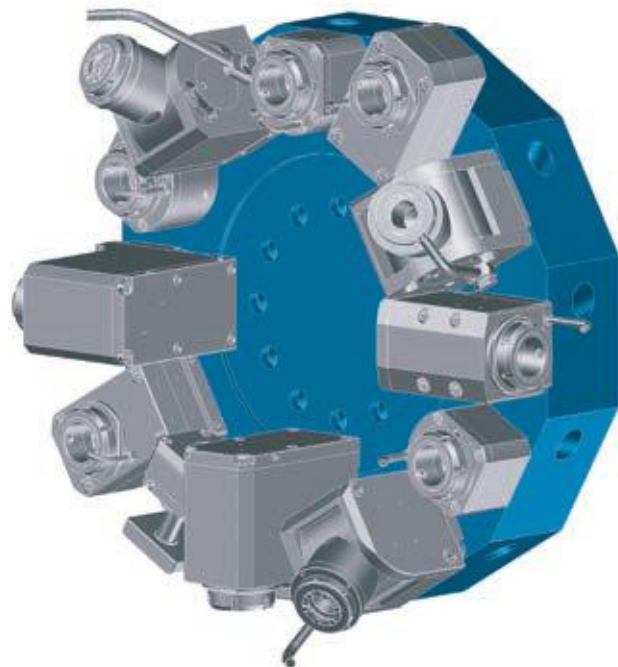
**LB 400 - M / LU 400 - M (Upper Turret)**

**Data**

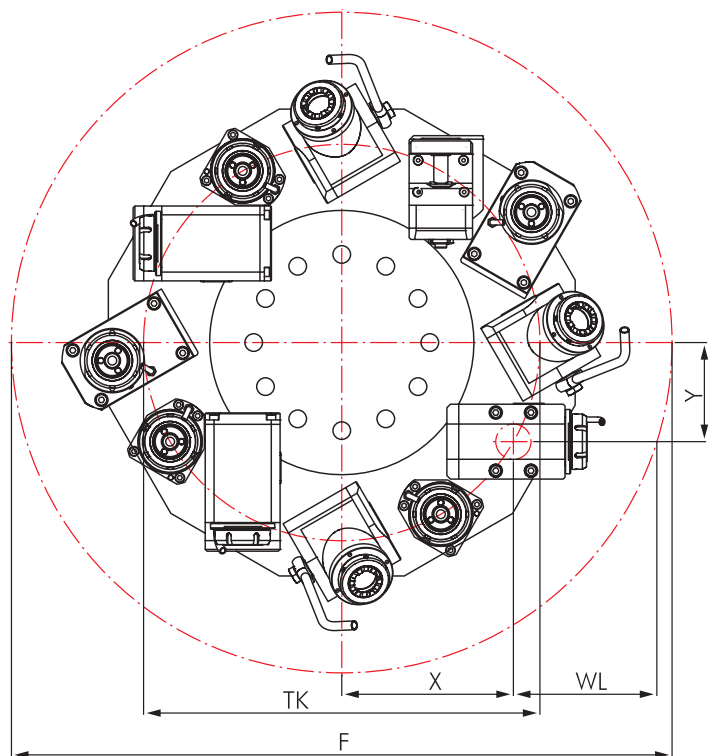
Machine type Series		Turret Stations
<b>LB 400</b>	<b>M</b>	12
<b>LU 400</b>	<b>M</b>	12



**Disc-type Turret VDI 40**



**Interference Circles**





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



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

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

### Driven Toolholders

	Page		Page
<b>Straight Unit</b>			358
<b>Angle Unit</b>			359

### Options and Accessories

<b>mi Toolholders</b>		mi System Description Toolholders Accessories	471 473-477 478-479
<b>Standard VDI Toolholders</b>		VDI Toolholders Accessories	518-524 525-531
<b>Accessories</b>		Collets DIN 6499 Threading Collets Wrenches Clamping Nuts Sleeves and Bushings	526-527 528-529 525 525 531



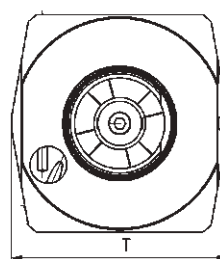
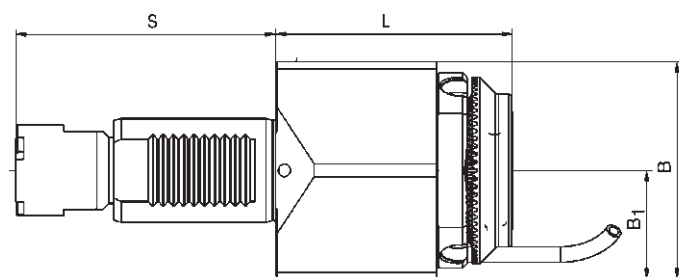
**Delivery information**

Driven toolholders with mi quick-change interface are supplied with operating wrench (see spare parts on page 479).  
Driven toolholders with other interfaces are supplied without clamping wrench (see accessories on page 525).

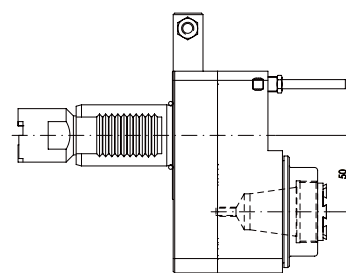
# Straight Unit

Compatible accessories with **BLUECOMPETENCE** » mimatic mi » PolyMILL » TriMILL » TrioCut » PolyREAM

for Manufacturer	
<b>LOKUMA</b>	
for Machine type	
<b>LB 400-M</b> <b>LU 400-M (Only for Upper Turret)</b>	
Dimensions	
Revolver type	Disc-type Turret
Shank	VDI 40
Drive	Layer gear; single level
Graduation	30 / 60°
Modular Interfaces	
<b>mimaticMi</b>	



With offset:

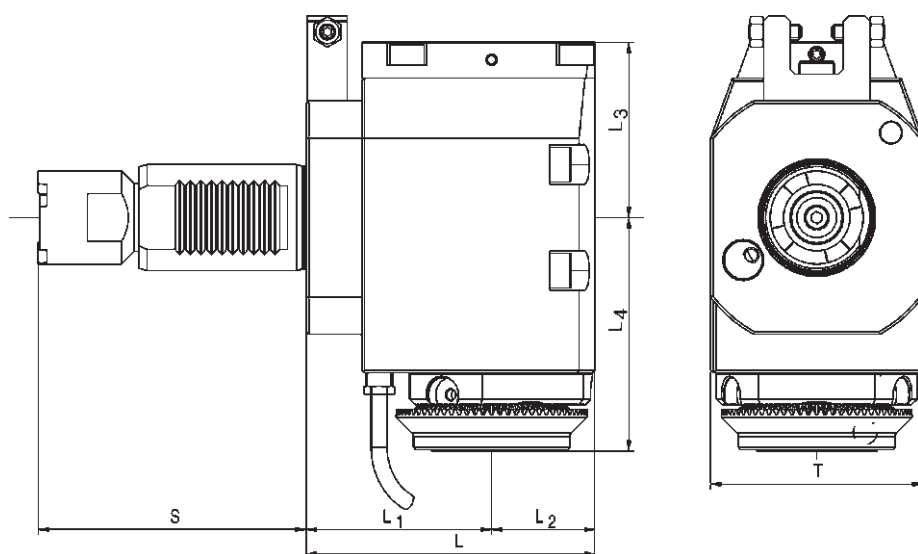


Order No.	Tool holder	Clamping range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	L mm	B mm	B1 mm	S mm	T mm	Rotating direction
103505	ER 32	1,0-20	80 Nm	6.500 / 6.500	i = 1:1	external	75,5	87	38	101	75	↺ ↻
103509	ER 32*	1,0-20	80 Nm	6.500 / 6.500	i = 1:1	internal	75,5	87	38	101	75	↺ ↻
103521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

# Angle Unit

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

for Manufacturer	
<b>LOKUMA</b>	
for Machine type	
<b>LB 400-M</b> <b>LU 400-M (Only for Upper Turret)</b>	
Dimensions	
Revolver type	Disc-type Turret
Shank	VDI 40
Drive	Layer gear; single level
Graduation	30 / 60°
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
103542	ER 32	1,0-20	50 Nm	6.500 / 6.500	i = 1:1	external	109	70	39	66	70	101	80	↺ ↻
103492	ER 32*	1,0-20	50 Nm	6.500 / 6.500	i = 1:1	internal	109	70	39	66	70	101	80	↻ ↺
103538	mi 50	-	50 Nm	6.500 / 6.500	i = 1:1	internal	109	70	39	66	88	101	80	↻ ↺

\* With clamping nuts with sealing, seals see page 530

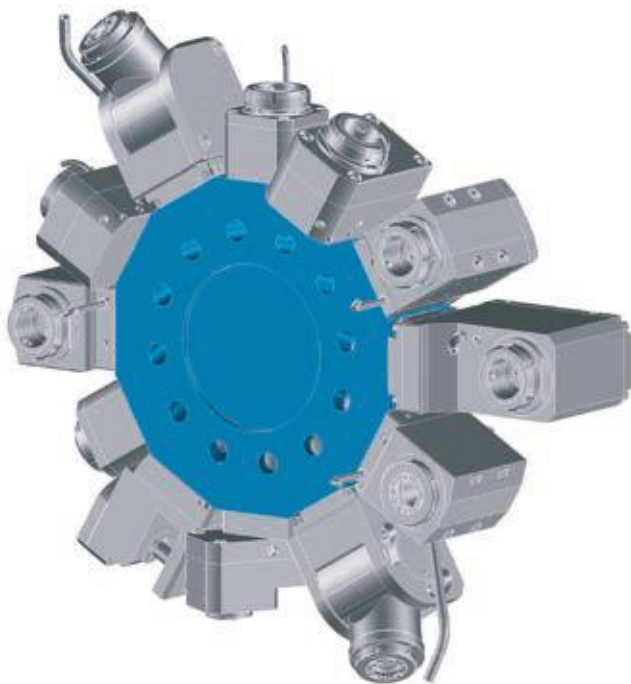
**LOKUMA LB 2000 / 2500 / 3000**

**Data**

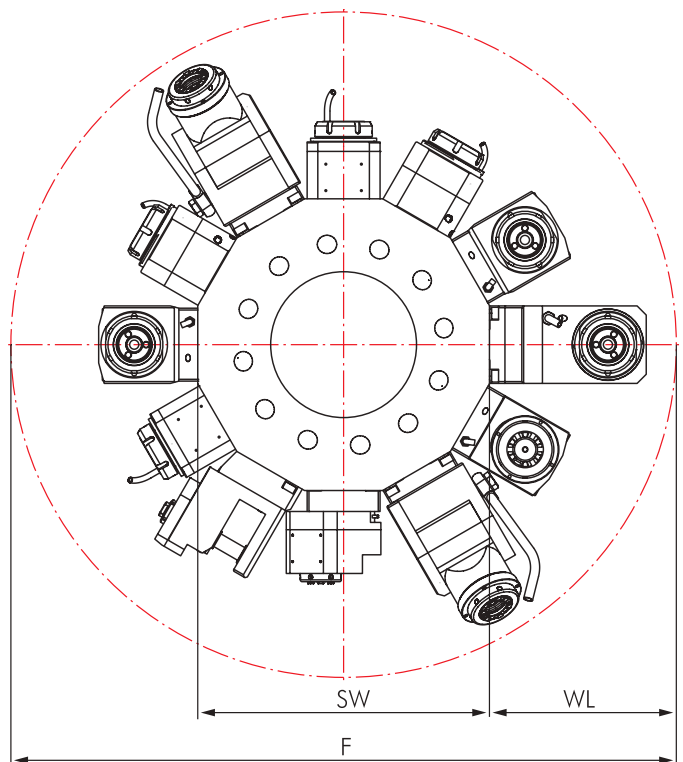
Machine type Series		Turret Stations
<b>LB 2000</b>	<b>EX</b>	12
<b>LB 2500</b>	<b>EX</b>	12
<b>LB 3000</b>	<b>EX</b>	12



**Star-type Turret „BMT“**





**Interference Circles**



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

## Live Tools

	Page		Page
<b>Straight Unit</b>			
	362		
<b>Angle Unit</b>			
			363

## Options and Accessories

<b>mi Toolholders</b>		mi System Description Toolholders Accessories	471 473-477 478-479
<b>Accessories</b>		Collets DIN 6499 Threading Collets Wrenches Clamping Nuts Sleeves and Bushings	526-527 528-529 525 525 531



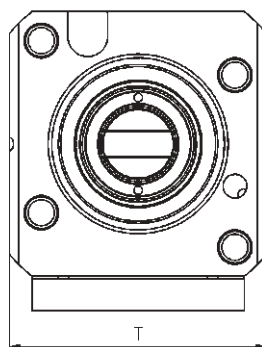
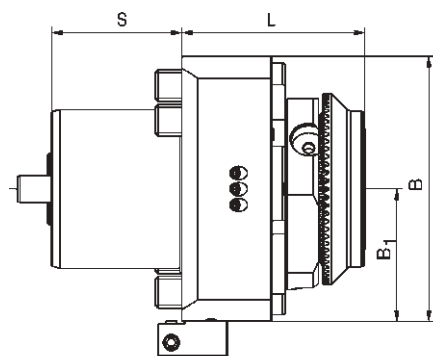
### Delivery information

Driven toolholders with mi quick-change interface are supplied with operating wrench (see spare parts on page 479).  
Driven toolholders with other interfaces are supplied without clamping wrench (see accessories on page 525).

# Straight Unit

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

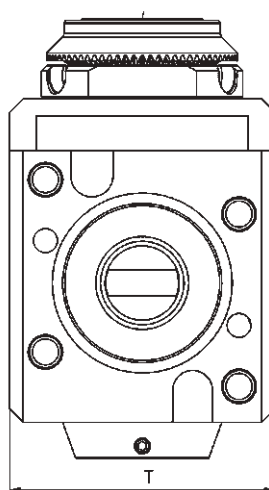
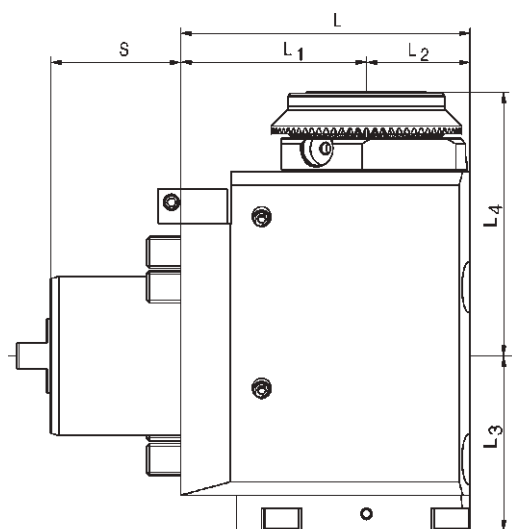
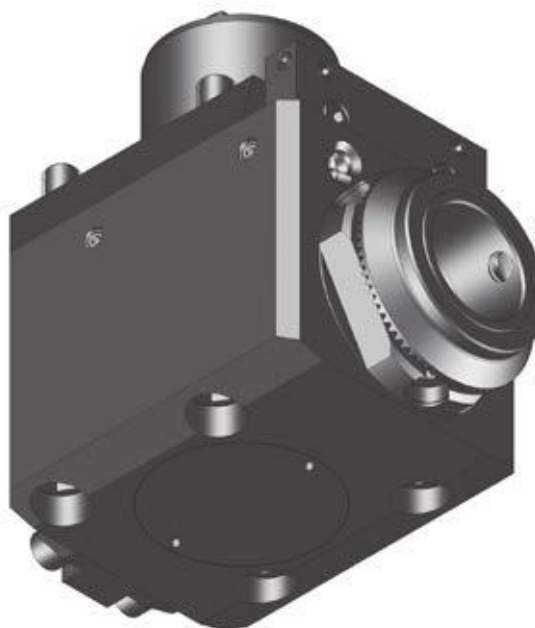
for Manufacturer	
<b>LOKUMA</b>	
for Machine type	
<b>LB 2000</b> <b>LB 2500</b> <b>LB 3000</b>	
Dimensions	
Turret type	Star-type Turret
Shank	BMT Ø 60 mm
Drive	Tang
SW	10 mm
Modular Interfaces	
<b>mimaticMi</b>	



Order No.	Tool holder	Clamping range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	L mm	B mm	B1 mm	S mm	T mm	Rotating direction
176408	ER 32	1,0-20	80 Nm	6.000 / 6.000	i = 1:1	external	65	100	50	49	97	↺ ↻
167718	ER 32*	1,0-20	80 Nm	6.000 / 6.000	i = 1:1	internal	65	100	50	49	97	↻ ↺
167714	mi 50	-	80 Nm	6.000 / 6.000	i = 1:1	internal	69	100	50	49	97	↻ ↺

# Angle Unit

for Manufacturer	
<b>LOKUMA</b>	
for Machine type	
<b>LB 2000</b> <b>LB 2500</b> <b>LB 3000</b>	
Dimensions	
Turret type	Star-type Turret
Shank	BMT Ø 60 mm
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
167731	ER 32*	1,0-20	50 Nm	6.500 / 6.500	i = 1:1	internal	109	70	39	66	84,5	49	100	↺ ↻
167710	mi 50	-	50 Nm	6.500 / 6.500	i = 1:1	internal	109	70	39	66	99,5	49	100	↻ ↺

\* With clamping nuts with sealing, seals see page 530



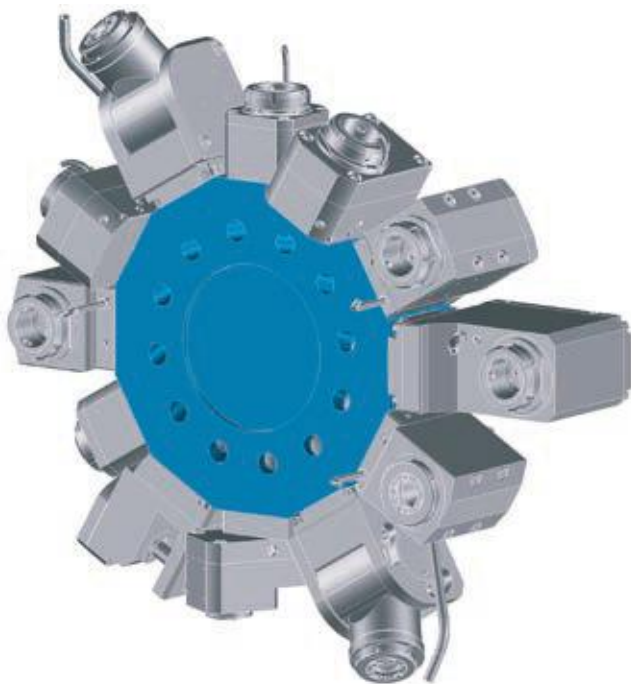
**LOKUMA LT 2000**

**Data**

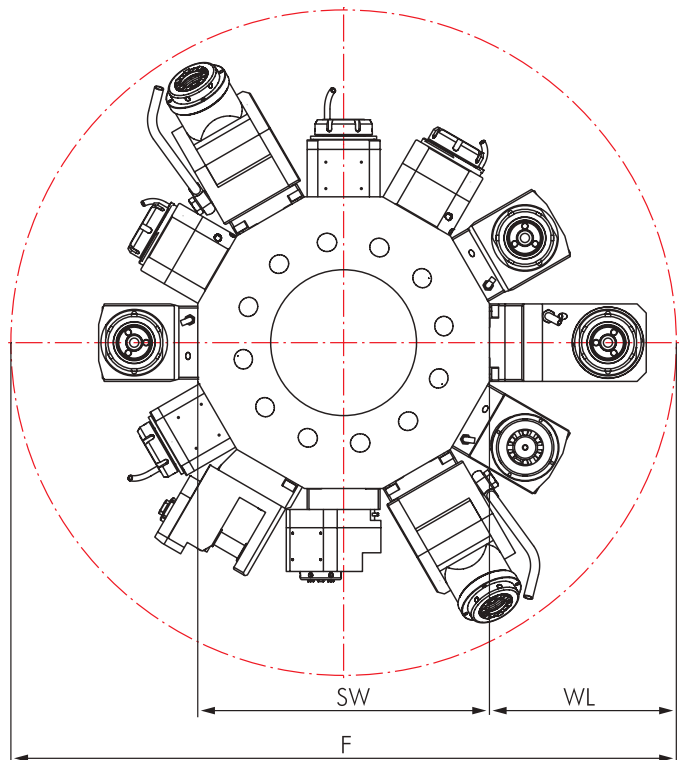
Machine type Series	Turret Stations
<b>LT 2000 EX</b>	16



**Star-type Turret „BMT“**






**Interference Circles**



Machine type Series	F	SW	WL
<b>LT 2000 EX</b>	650	420	115

## Live Tools

	Page		Page
<b>Straight Unit</b>			366
<b>Angle Unit, 2-Axis</b>			368
<b>Angle Unit</b>			367

## Options and Accessories

<b>mi Toolholders</b>		mi System Description Toolholders Accessories	471 473-477 478-479
<b>Accessories</b>		Collets DIN 6499 Threading Collets Wrenches Clamping Nuts Sleeves and Bushings	526-527 528-529 525 525 531

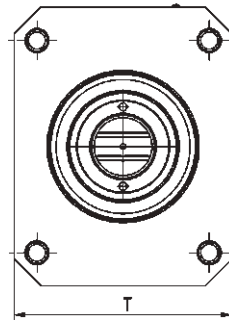
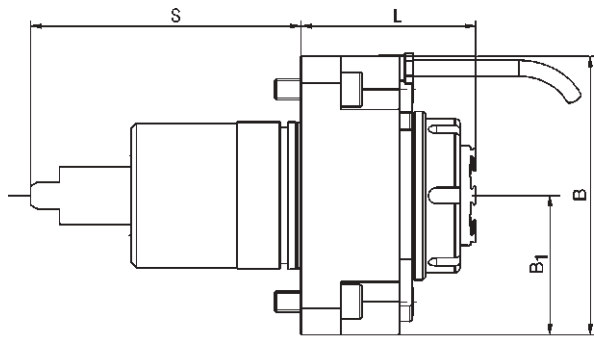
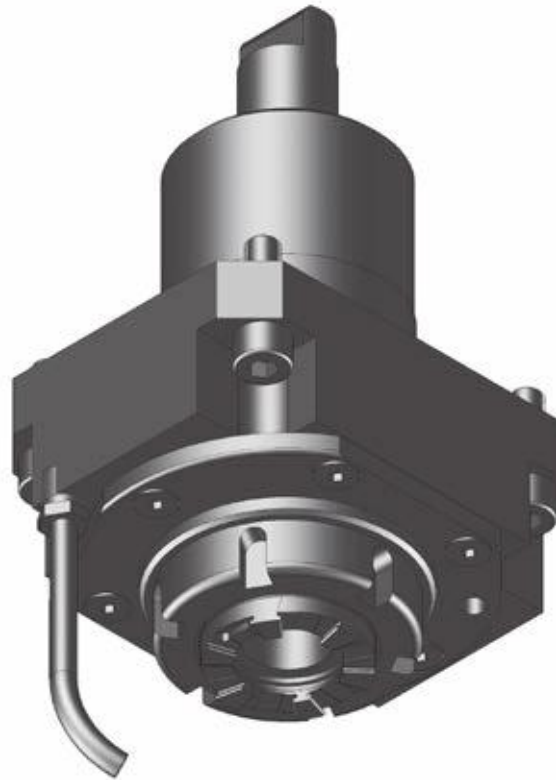


### Delivery information

Driven toolholders with mi quick-change interface are supplied with operating wrench (see spare parts on page 479).  
Driven toolholders with other interfaces are supplied without clamping wrench (see accessories on page 525).

# Straight Unit

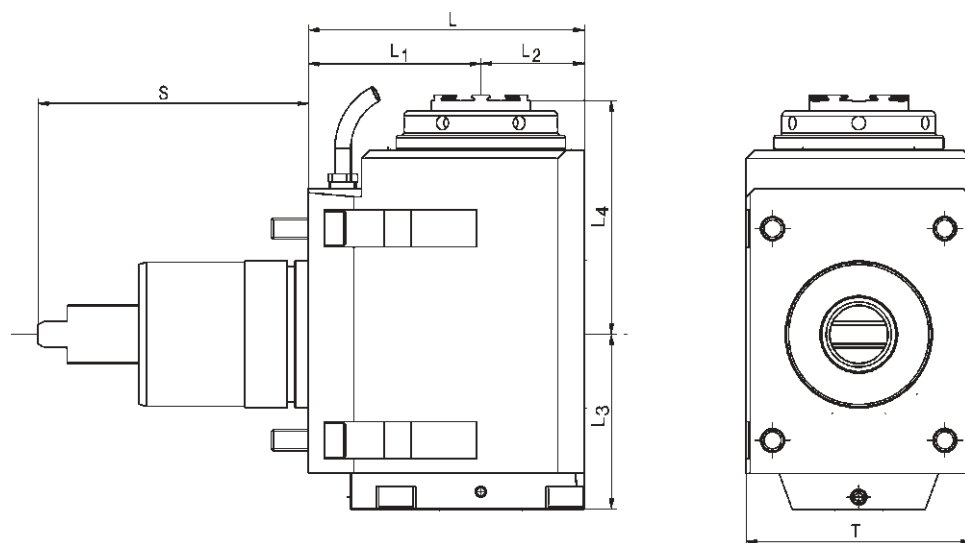
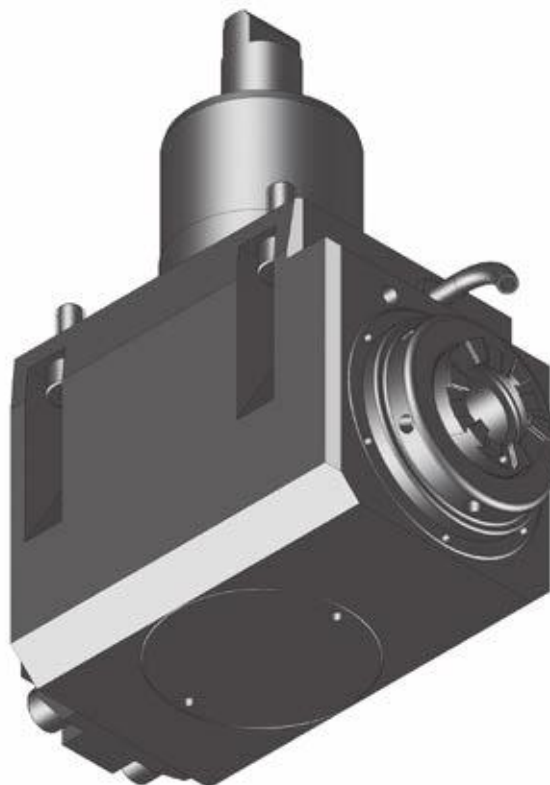
for Manufacturer	
<b>LOKUMA</b>	
for Machine type	
<b>LT 2000</b>	
Dimensions	
Turret type	Star-type Turret
Shank	BMT Ø 55,4 mm
Drive	Tang
SW	10 mm



Order No.	Tool holder	Clamping range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	L mm	B mm	B1 mm	S mm	T mm	Rotating direction
176394	ER 32	1,0-20	80 Nm	6.500 / 6.500	i = 1:1	external	65	105	50	105	82	↻ ↻
176393	ER 32*	1,0-20	80 Nm	6.500 / 6.500	i = 1:1	internal	65	105	50	105	82	↻ ↻

# Angle Unit

for Manufacturer	
<b>LOKUMA</b>	
for Machine type	
<b>LT 2000</b>	
Dimensions	
Turret type	Star-type Turret
Shank	BMT Ø 55,4 mm
Drive	Tang
SW	10 mm



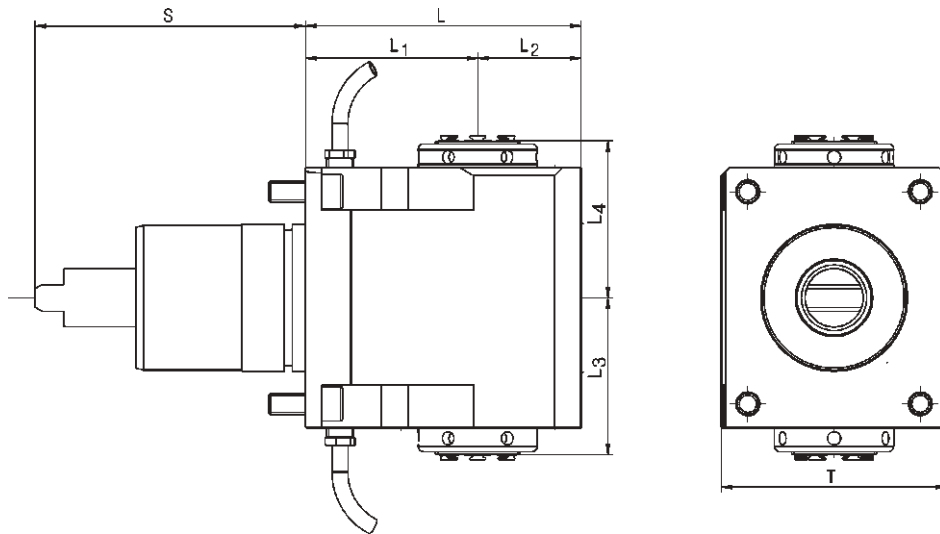
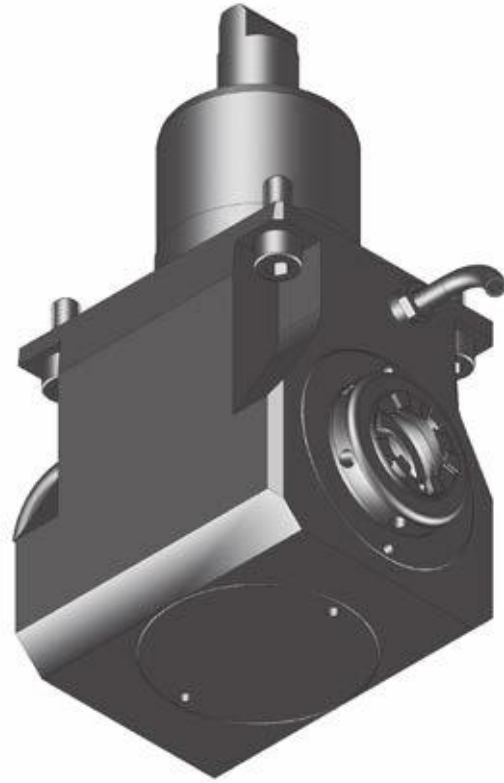
Order No.	Tool holder	Clamping range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	L mm	L1 mm	L2 mm	L3 mm	L4 mm	S mm	T mm	Rotating direction
176401	ER 32	1,0-20	70 Nm	6.500 / 6.500	i = 1:1	external	102	65	37	68	88	102	85	↺ ↻
176400	ER 32*	1,0-20	70 Nm	6.500 / 6.500	i = 1:1	internal	102	65	37	68	88	102	85	↻ ↺

\* With clamping nuts with sealing, seals see page 530

# Angle Unit, 2-Axis

Compatible accessories with **BLUECOMPETENCE** » PolyMILL » TriMILL » TrioCut » PolyREAM

for Manufacturer	
<b>LOKUMA</b>	
for Machine type	
<b>LT 2000</b>	
Dimensions	
Turret type	Star-type Turret
Shank	BMT Ø 55,4 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
176655	ER 25	0,5-16	30 Nm	6.500 / 6.500	i = 1:1	external	104	65	39	60	60	102	85



Management Service

# CERTIFICATE

The Certification Body  
of TÜV SÜD Management Service GmbH  
certifies that

**mimatic**<sup>®</sup>  
T o o l S y s t e m s

**mimatic GmbH**  
Westendstraße 3  
D-87488 Betzigau

has established and applies  
a Quality Management System for

**Development, Design, Production, Sales and  
Service of Driven Toolholders, Cutting Tools,  
Clamping Systems and Special Tools.**

An audit was performed, Report No. **70006182**  
Proof has been furnished that the requirements  
according to

**ISO 9001:2008**

are fulfilled. The certificate is valid until **2014-02-06**  
Certificate Registration No. **12 100 15724 TMS**

*M. Wegner*

Munich, 2013-02-26



QMS-TGA-ZM-07-92

TÜV SÜD TÜV SÜD TÜV SÜD TÜV SÜD TÜV SÜD TÜV SÜD TÜV SÜD TÜV SÜD TÜV SÜD TÜV SÜD TÜV SÜD TÜV SÜD TÜV SÜD TÜV SÜD  
 ZERTIFIKAT ♦ CERTIFICATE ♦ 認證證書 ♦ CERTIFICADO ♦ CERTIFICAT



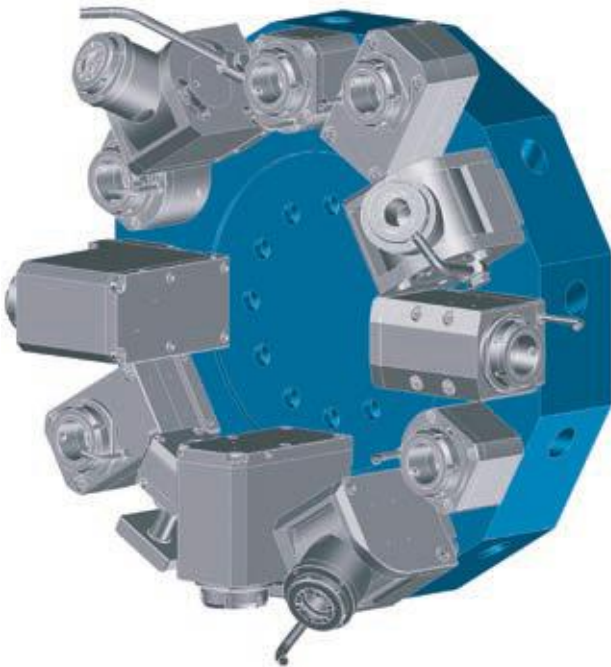
**DIN 5482 (B 15 x 12)**

**Data**

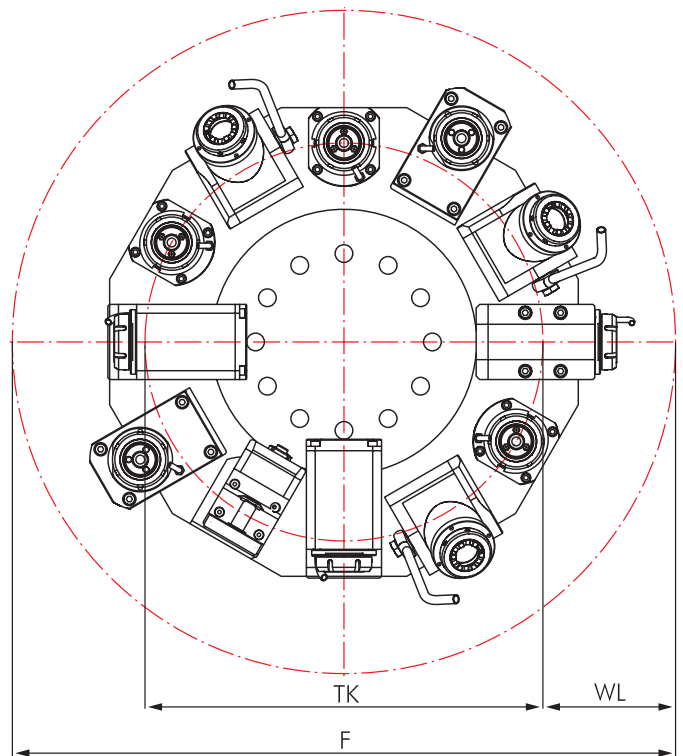
Disc-type Turret	Turret Stations
<b>Drive</b>	<b>DIN 5482 (B 15 x 12)</b>



**Disc-type Turret VDI 30**



**Interference Circles**



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

## Live Tools

	Page		Page
<b>Straight Unit</b>	372		
<b>Angle Unit, Offset Type</b>			374
<b>Angle Unit</b>	373		
<b>Angle Unit, adjustable 0-100°</b>			375
<b>Saw Blade Holder</b>			376

## Options and Accessories

<b>mi Toolholders</b>		mi System Description Toolholders Accessories	471 473-477 478-479
<b>Standard VDI Toolholders</b>		VDI Toolholders Accessories	518-524 525-531
<b>Accessories</b>		Collets DIN 6499 Threading Collets Wrenches Clamping Nuts Sleeves and Bushings	526-527 528-529 525 525 531



### Delivery information

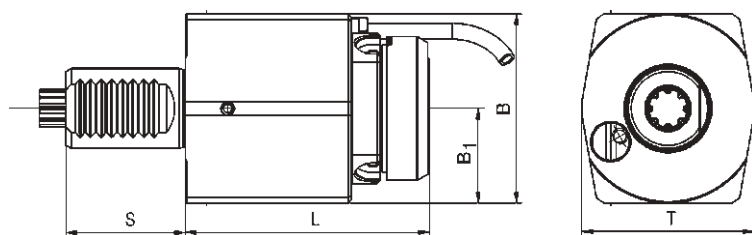
Driven toolholders with mi quick-change interface are supplied with operating wrench (see spare parts on page 479).  
Driven toolholders with other interfaces are supplied without clamping wrench (see accessories on page 525).



# Straight Unit

Compatible accessories with **BLUECOMPETENCE** » mimatic mi » PolyMILL » TriMILL » TrioCut » PolyREAM

for Turret Manufacturer	
<b>SAUTER</b>	
with Drive	
<b>DIN 5482 (B 15 x 12)</b>	
Dimensions	
Revolver type	Disc-type Turret
Shank	VDI 30
Drive	DIN 5482 B 15 x 12 Z = 8 Ø 14,5 mm
Modular Interfaces	
<b>mimaticMi</b>	

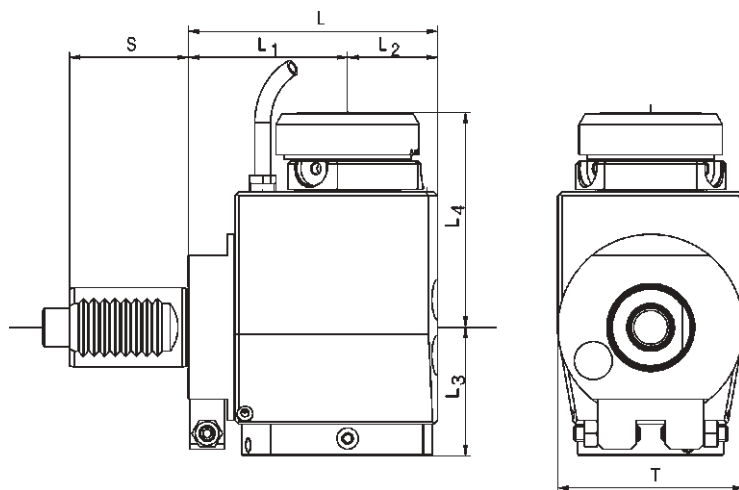
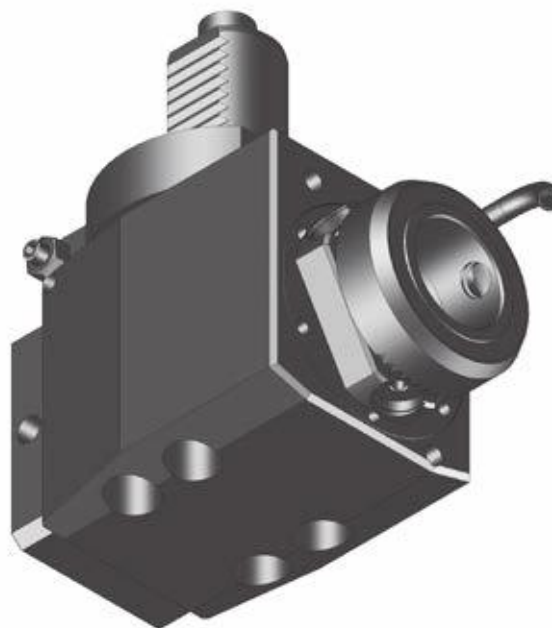


Order No.	Tool holder	Clamping range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	L mm	B mm	B1 mm	S mm	T mm	Rotating direction
123780	ER 25	0,5-16	40 Nm	6.500 / 6.500	i = 1:1	external	77	70	35,0	45	70	↺ ↻
124135	ER 25*	0,5-16	25 Nm	6.500 / 6.500	i = 1:1	internal	77	70	35,0	45	70	↺ ↻
124137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

# Angle Unit

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

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



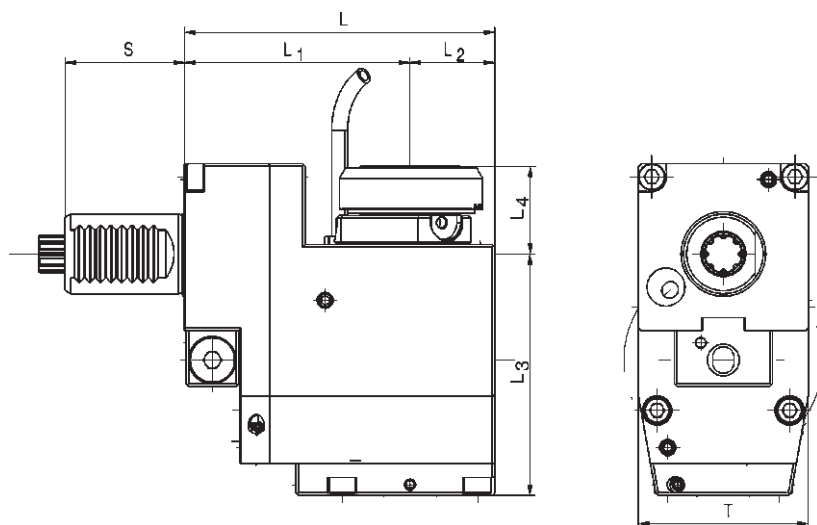
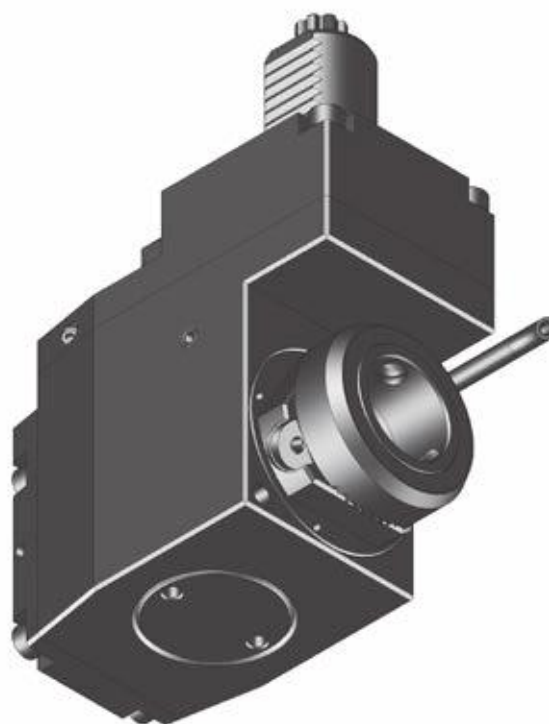
Order No.	Tool holder	Clamping range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	L mm	L1 mm	L2 mm	L3 mm	L4 mm	S mm	T mm	Rotating direction
124491	ER 25	0,5-16	25 Nm	6.500 / 6.500	i = 1:1	external	94	60	34	36,5	60	45	70	
101413	ER 25*	0,5-16	25 Nm	6.500 / 6.500	i = 1:1	internal	94	60	34	54,0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

\* With clamping nuts with sealing, seals see page 530

## Angle Unit, Offset Type

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

for Turret Manufacturer	
<b>SAUTER</b>	
with Drive	
<b>DIN 5482 (B 15 x 12)</b>	
Dimensions	
Revolver type	Disc-type Turret
Shank	VDI 30
Drive	DIN 5482 B 15 x 12 Z = 8 Ø 14,5 mm
Modular Interfaces	
<b>mimaticMi</b>	

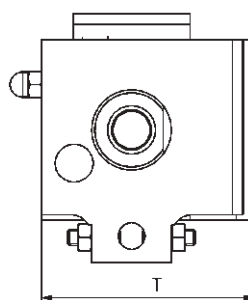
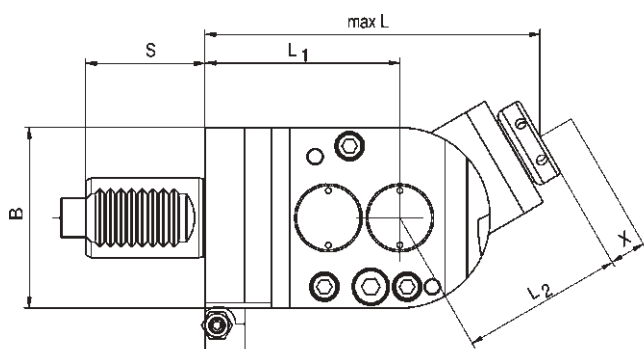
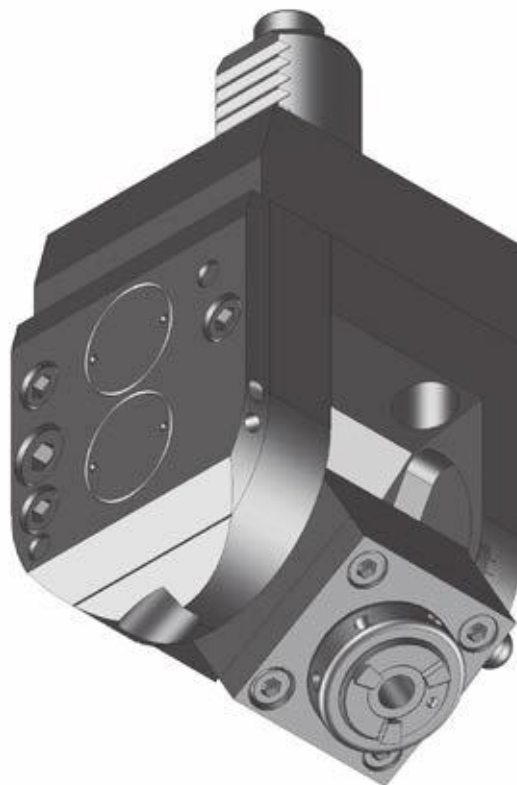


Order No.	Tool holder	Clamping range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	L mm	L1 mm	L2 mm	L3 mm	L4 mm	S mm	T mm	Rotating direction
124497**	ER 25	0,5-16	25 Nm	6.500 / 6.500	i = 1:1	external	117	85	32	91	15	45	64	↺ ↻
166412**	ER 25*	0,5-16	25 Nm	6.500 / 6.500	i = 1:1	internal	117	85	32	91	15	45	64	↻ ↺
124401**	mi 40	-	25 Nm	6.500 / 6.500	i = 1:1	internal	117	85	32	91	33	45	64	↻ ↺

# Angle Unit, Adjustable 0-100°

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

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

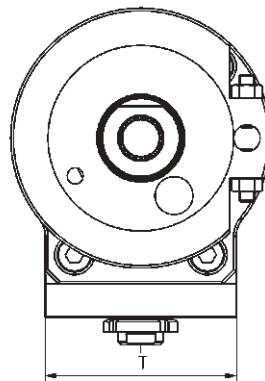
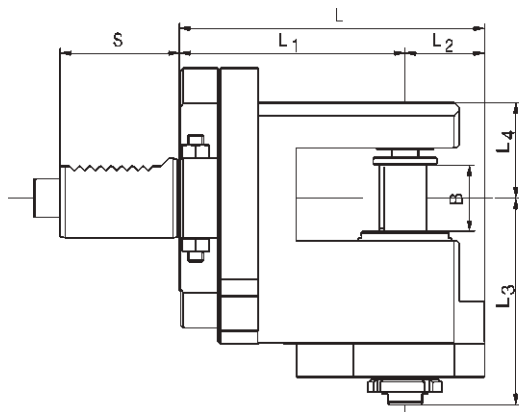
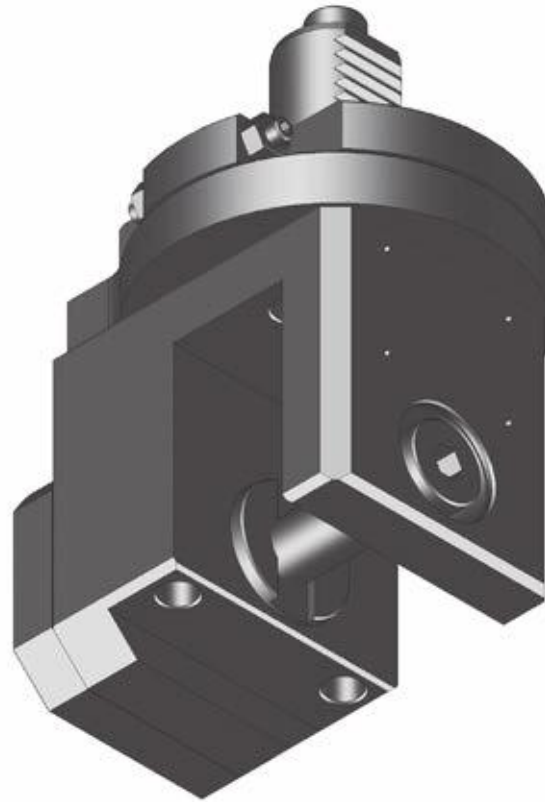


Order No.	Tool holder	Clamping range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	L mm	L1 mm	L2 mm	B mm	S mm	T mm	Rotating direction
179178*	ER 16	0,5-10	6 Nm	6.500 / 6.500	i = 1:1	external	138	73,5	64,5	85,5	45	68	↻ ↻

\* with precision adjustable unit PIN Ø 8 mm

# Saw Blade Holder

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



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

**BLUECOMPETENCE**

Alliance Member

Partner of the Engineering Industry  
Sustainability Initiative



Picture shows angle live tool (90°) for a Sauter VDI 40 turret with a mimatic<sup>®</sup> mi50 interface. 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.



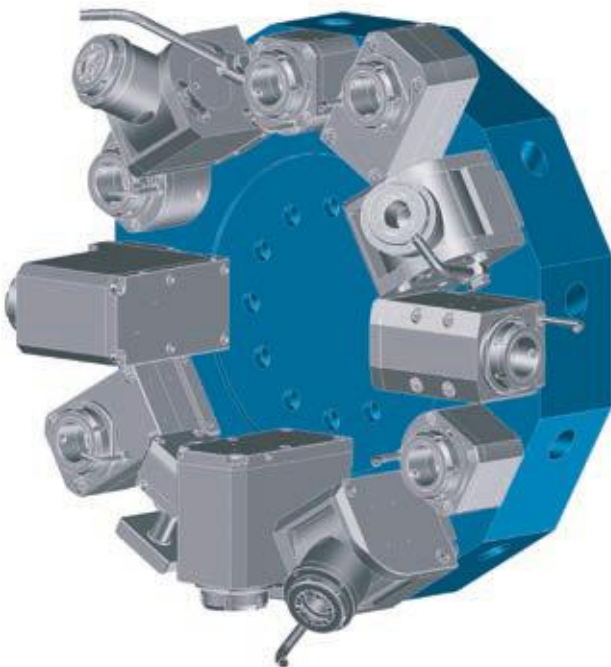
**DIN 5482 (B 17 x 14)**

**Data**

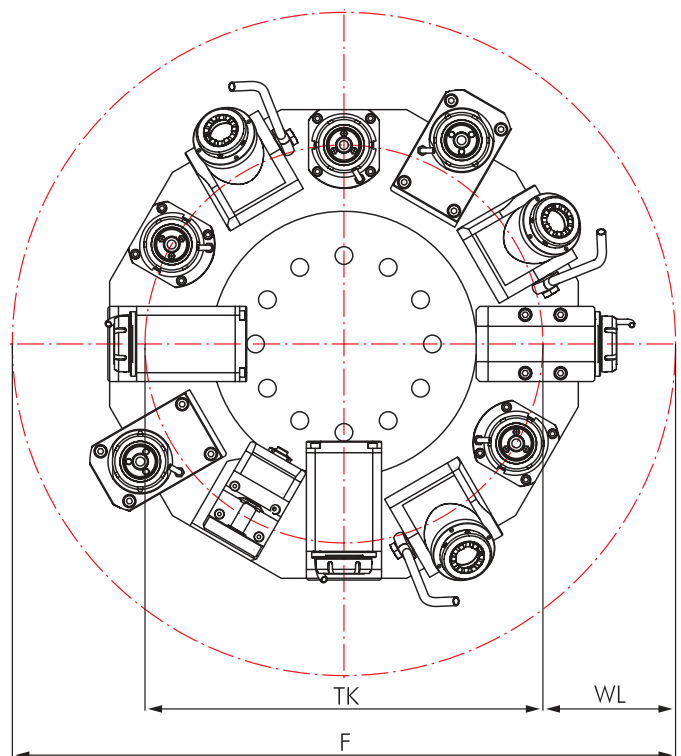
Disc-type Turret	Turret Stations
<b>Drive</b>	<b>DIN 5482 (B 17 x 14)</b>



**Disc-type Turret VDI 40**



**Interference Circles**



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

## Live Tools

	Page		Page
<b>Straight Unit</b>	380		
<b>Angle Unit, Offset Type</b>			382
<b>Angle Unit</b>	381		
<b>Angle Unit, adjustable 0-100°</b>			383
<b>Saw Blade Holder</b>			384

## Options and Accessories

<b>mi Toolholders</b>		mi System Description Toolholders Accessories	471 473-477 478-479
<b>Standard VDI Toolholders</b>		VDI Toolholders Accessories	518-524 525-531
<b>Accessories</b>		Collets DIN 6499 Threading Collets Wrenches Clamping Nuts Sleeves and Bushings	526-527 528-529 525 525 531



### Delivery information

Driven toolholders with mi quick-change interface are supplied with operating wrench (see spare parts on page 479).  
Driven toolholders with other interfaces are supplied without clamping wrench (see accessories on page 525).



# Straight Unit

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

for Turret Manufacturer

**SAUTER**

with Drive

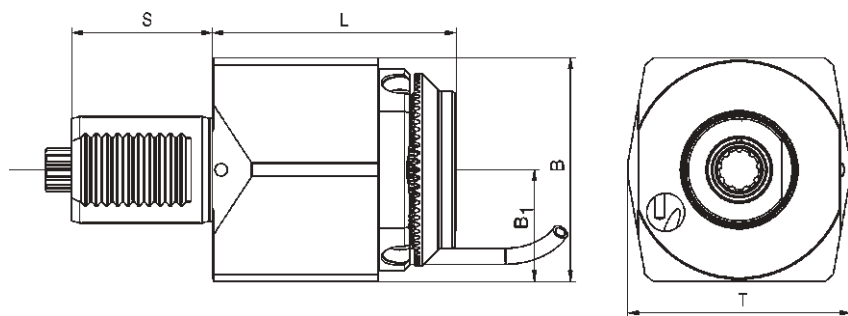
**DIN 5482 (B 17 x 14)**

Dimensions

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

Modular Interfaces

**mimaticMi**  
**HydroFLEX**



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

# Angle Unit

Compatible accessories with **BLUECOMPETENCE** » mimatic mi » PolyMILL » TriMILL » TrioCut » PolyREAM

for Turret Manufacturer



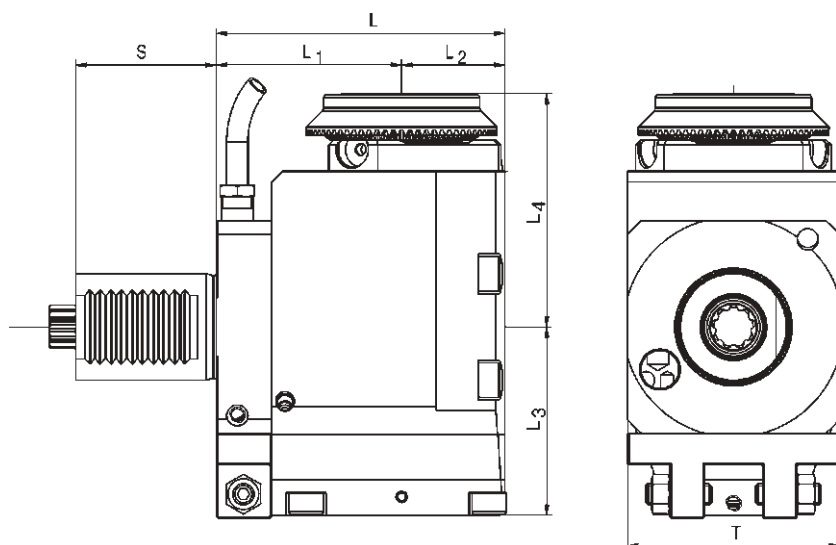
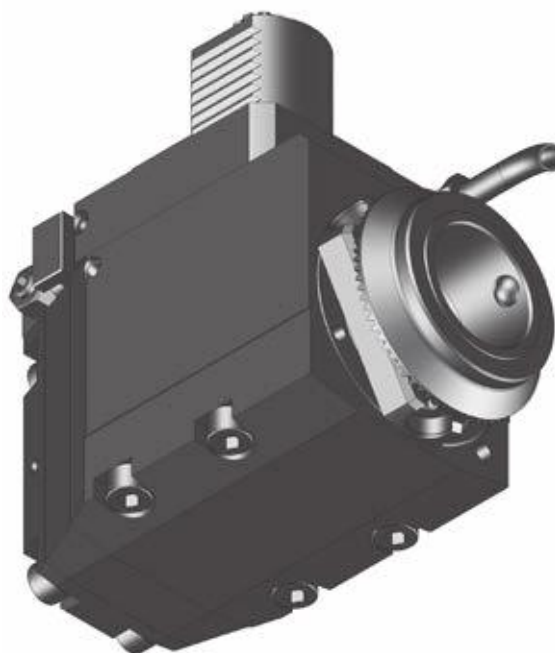
with Drive

**DIN 5482 (B 17 x 14)**

Dimensions

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

Modular Interfaces

13

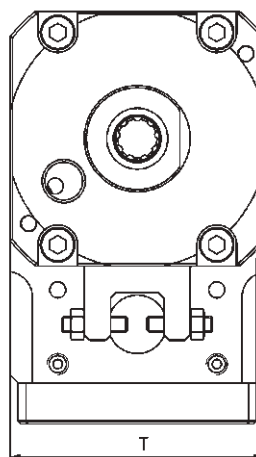
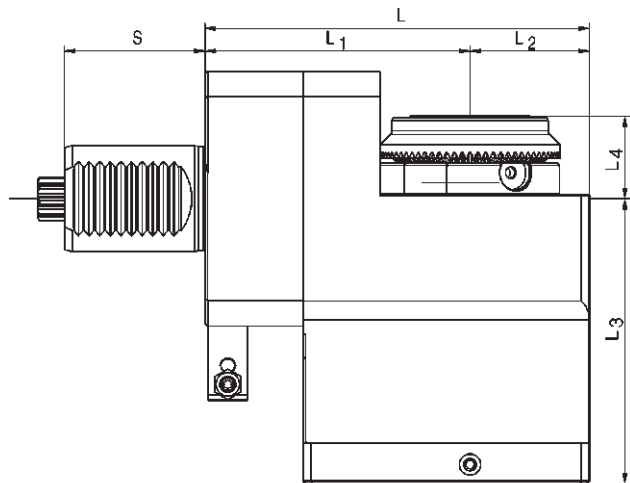
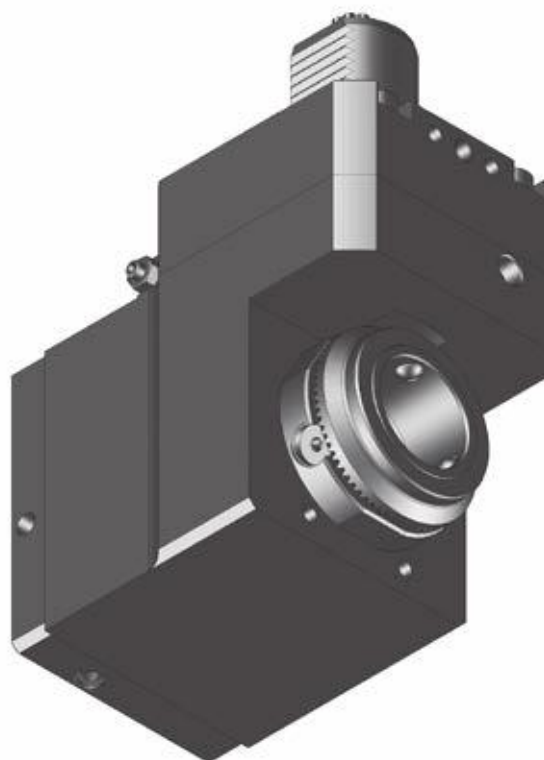
Order No.	Tool holder	Clamping range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	L mm	L1 mm	L2 mm	L3 mm	L4 mm	S mm	T mm	Rotating direction
124516	ER 32	1,0-20	50 Nm	5.400 / 5.400	i = 1:1	external	113	70	43	69,0	70	53	80	↺ ↻
124804	ER 32*	1,0-20	50 Nm	5.200 / 5.200	i = 1:1	internal	113	70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

\* With clamping nuts with sealing, seals see page 530

## Angle Unit, Offset Type

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

for Turret Manufacturer	
<b>SAUTER</b>	
with Drive	
<b>DIN 5482 (B 17 x 14)</b>	
Dimensions	
Revolver type	Disc-type Turret
Shank	VDI 40
Drive	DIN 5482 B 17 x 14 Z = 9 Ø 16,5 mm
Modular Interfaces	
<b>mimaticMi</b>	

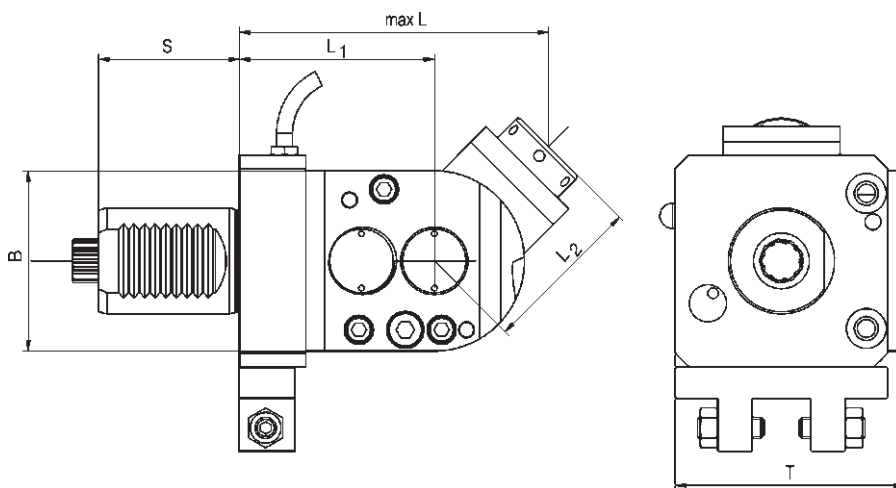
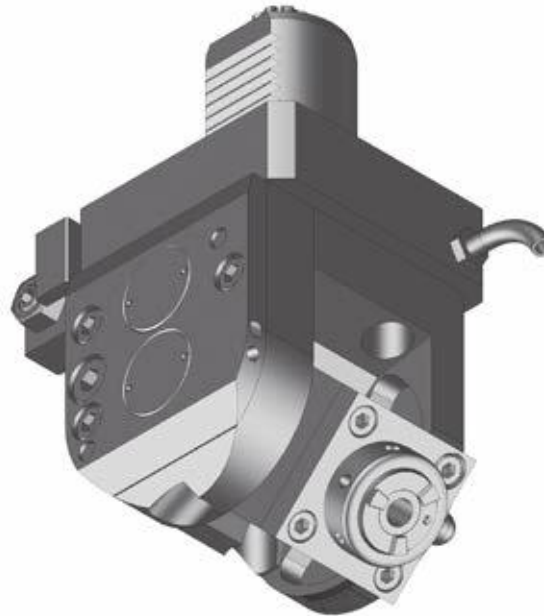


Order No.	Tool holder	Clamping range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	L mm	L1 mm	L2 mm	L3 mm	L4 mm	S mm	T mm	Rotating direction
124740	ER 32	1,0-20	80 Nm	6.000 / 6.000	i = 1:1	external	120	70	34	76,5	37	53	72	↺ ↻
124407	ER 32*	1,0-20	80 Nm	6.000 / 6.000	i = 1:1	internal	112	70	42	110,0	20	53	84	↺ ↻
124408**	mi 50	-	100 Nm	4.000 / 4.000	i = 1:1	internal	145	100	45	107,5	31	53	96	↺ ↻

# Angle Unit, Adjustable 0-100°

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

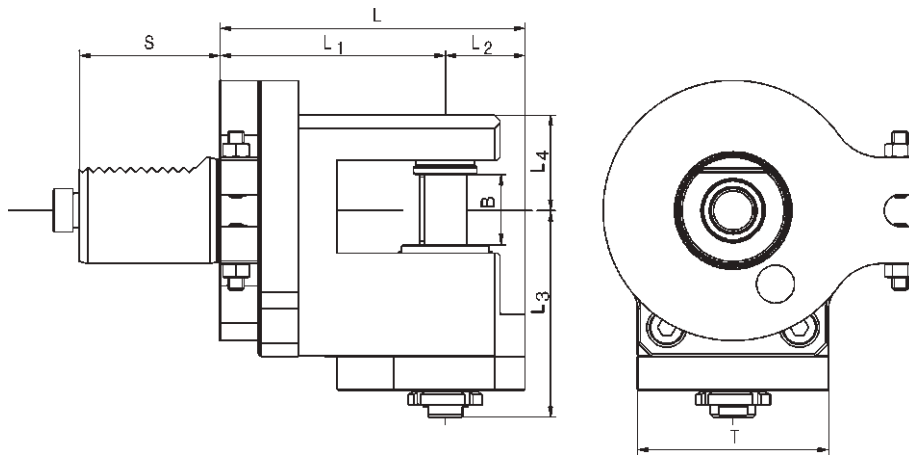
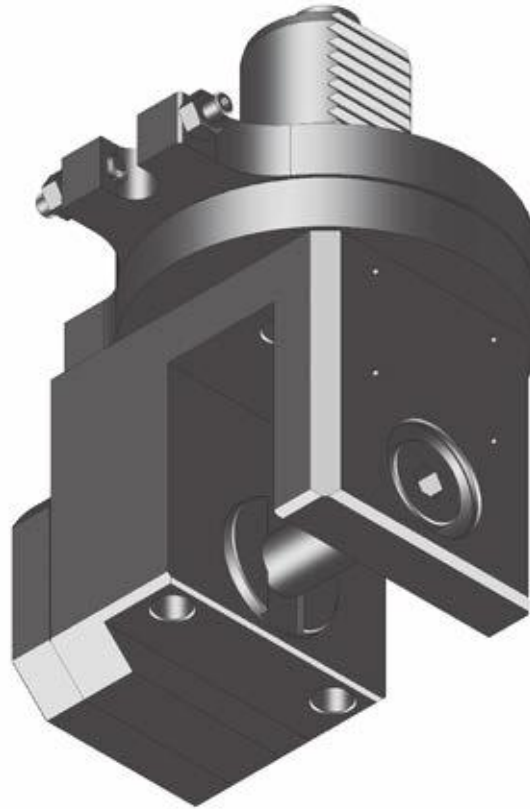
for Turret Manufacturer	
<b>SAUTER</b>	
with Drive	
<b>DIN 5482 (B 17 x 14)</b>	
Dimensions	
Revolver type	Disc-type Turret
Shank	VDI 40
Drive	DIN 5482 B 17 x 14 Z = 9 Ø 16,5 mm



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

## Saw Blade Holder

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

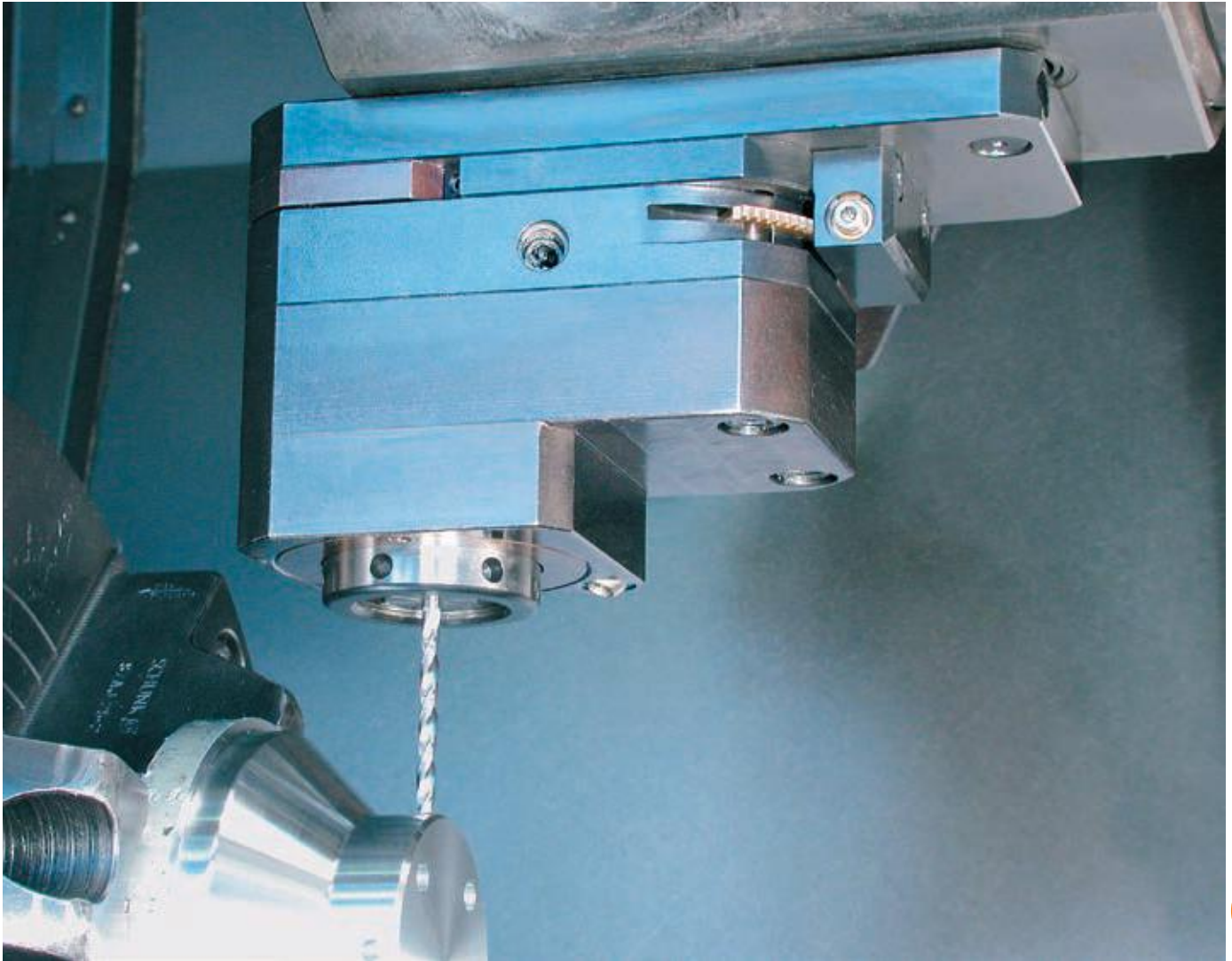


Order No.	Fitting dia.mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	L mm	L1 mm	L2 mm	L3 mm	L4 mm	B mm	S mm	T mm
125087*	22	20 Nm	6.500 / 2.450	i = 2,66:1	external	115	85	30	77,5	36	25	53	72
101810**	22	40 Nm	6.500 / 2.450	i = 2,66:1	external	130	95	35	87,5	36	25	53	72

**BLUECOMPETENCE**

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Sustainability Initiative



Picture shows a Y-axis live tool with an adjustment range of  $\pm 50$  mm in Y-axis.



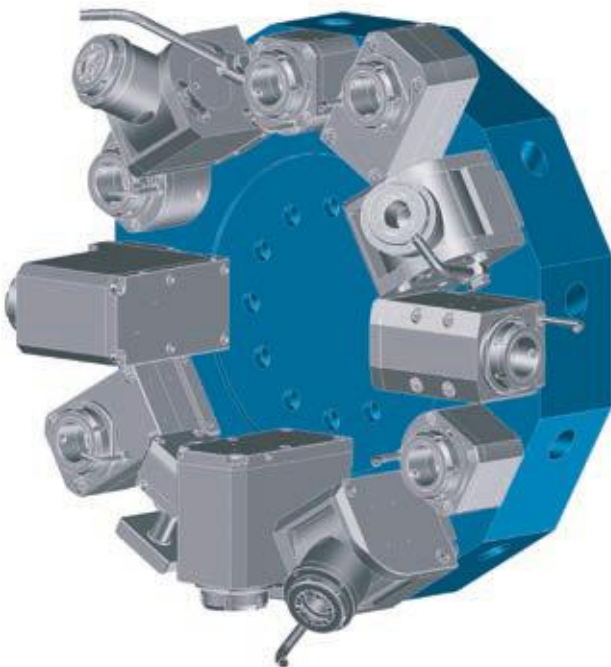
**DIN 5482 (B 20 x 17)**

**Data**

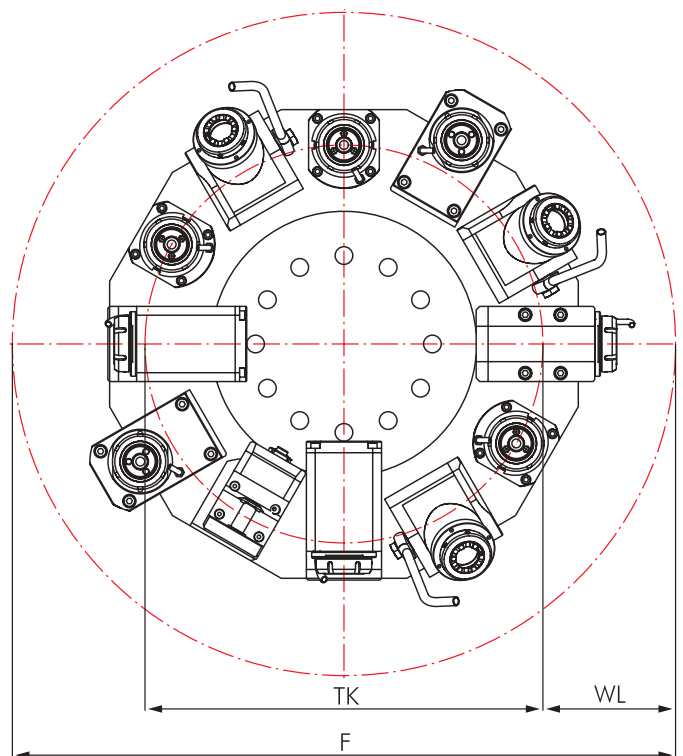
Disc-type Turret	Turret Stations
<b>Drive</b>	<b>DIN 5482 (B 20 x 17)</b>



**Disc-type Turret VDI 50**



**Interference Circles**



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



## Live Tools

Page		Page	
	<b>Straight Unit</b>		388
	<b>Angle Unit, Offset Type</b>		390
	<b>Angle Unit</b>		389
	<b>Angle Unit, adjustable 0-90°</b>		391
	<b>Saw Blade Holder</b>		392

## Options and Accessories

<b>mi Toolholders</b>		mi System Description Toolholders Accessories	471 473-477 478-479
<b>Standard VDI Toolholders</b>		VDI Toolholders Accessories	518-524 525-531
<b>Accessories</b>		Collets DIN 6499 Threading Collets Wrenches Clamping Nuts Sleeves and Bushings	526-527 528-529 525 525 531



### Delivery information

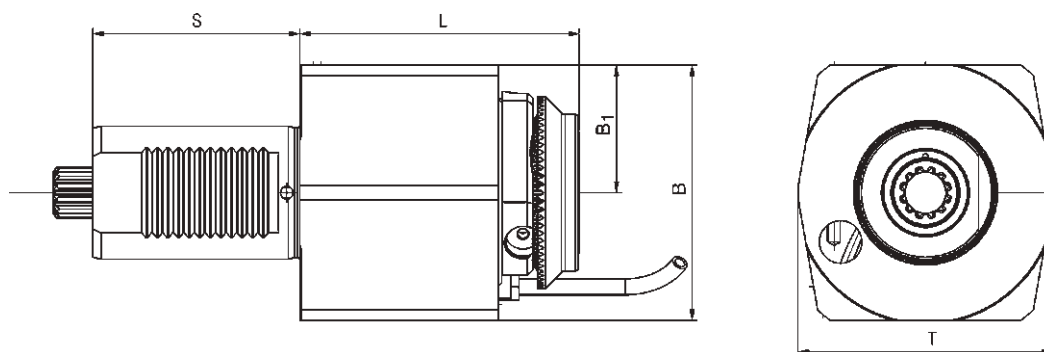
Driven toolholders with mi quick-change interface are supplied with operating wrench (see spare parts on page 479).  
Driven toolholders with other interfaces are supplied without clamping wrench (see accessories on page 525).



## Straight Unit

Compatible accessories with **BLUECOMPETENCE** » mimatic mi » PolyMILL » TriMILL » TrioCut » PolyREAM

for Turret Manufacturer	
<b>SAUTER</b>	
with Drive	
<b>DIN 5482 (B 20 x 17)</b>	
Dimensions	
Revolver type	Disc-type Turret
Shank	VDI 50
Drive	DIN 5482 B 20 x 17 Z = 12 Ø 19,5 mm
Modular Interfaces	
<b>mimaticMi</b> <b>HydroFLEX</b>	



Order No.	Tool holder	Clamping range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	L mm	B mm	B1 mm	S mm	T mm	Rotating direction
123815	ER 32	1,0-20	80 Nm	6.000 / 6.000	i = 1:1	external	86,0	96	48	78	96	↺ ↻
124188	ER 32*	1,0-20	80 Nm	5.200 / 5.200	i = 1:1	internal	86,0	96	48	78	96	↺ ↻
124191	mi 50	-	80 Nm	6.000 / 6.000	i = 1:1	internal	105,5	96	48	78	96	↺ ↻
124180	Hydro-Flex 20	6,0-20	80 Nm	6.000 / 6.000	i = 1:1	internal	104,0	96	48	78	96	↺ ↻

# Angle Unit

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

for Turret Manufacturer

**SAUTER**

with Drive

**DIN 5482 (B 20 x 17)**

Dimensions

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

Modular Interfaces

**mimaticMi**  
**HydroFLEX**

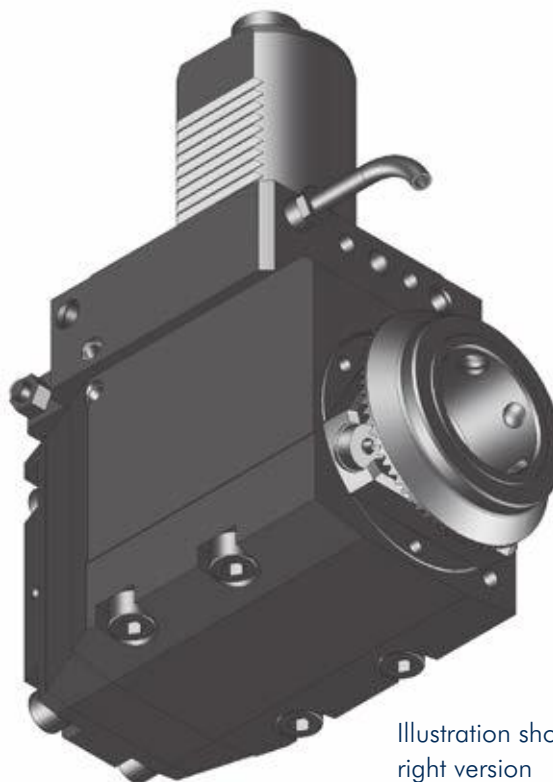
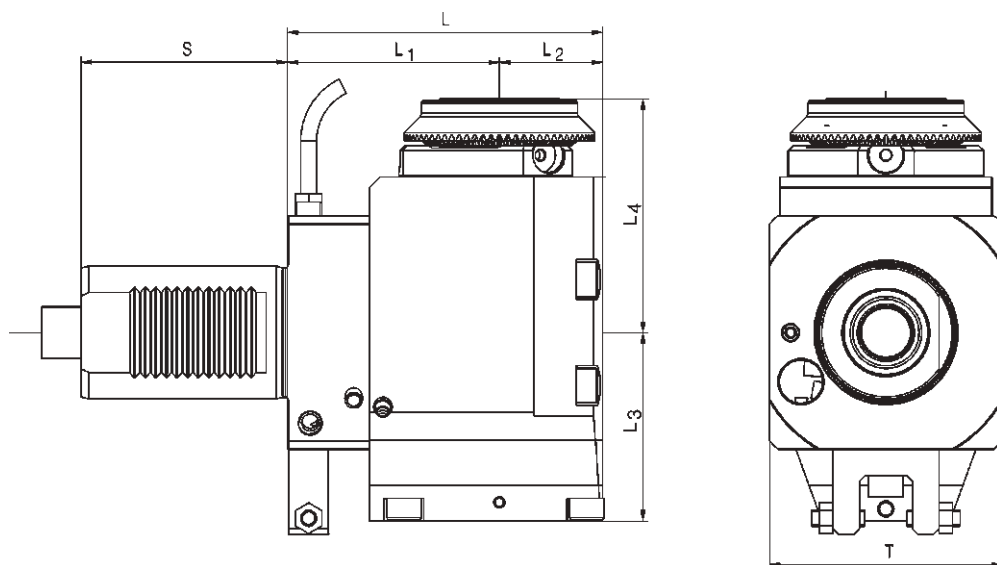


Illustration show right version



13

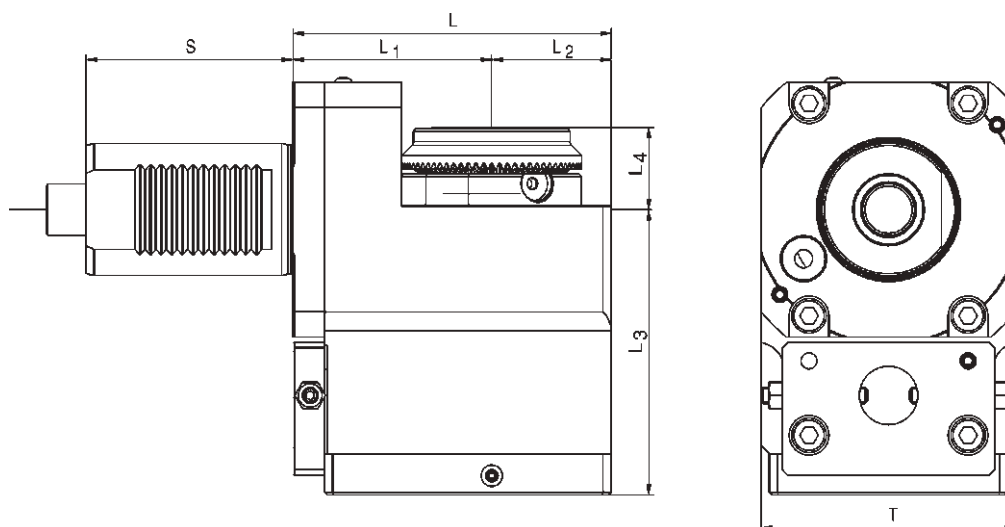
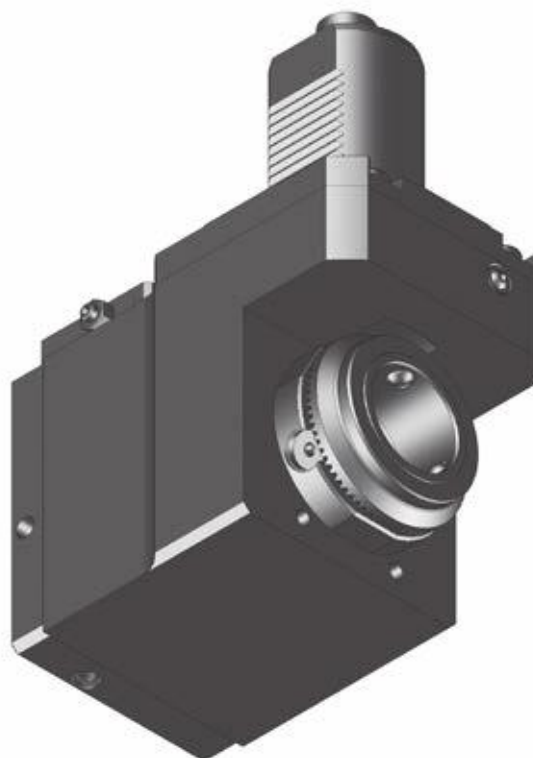
Order No.	Tool holder	Clamping range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	L mm	L1 mm	L2 mm	L3 mm	L4 mm	S mm	T mm	Rotating direction
124532	ER 32	1,0-20	80 Nm	5.200 / 5.200	i = 1:1	external	119	80	39	69,0	70	78	88	↺ ↻
124818	ER 32*	1,0-20	80 Nm	5.200 / 5.200	i = 1:1	internal	119	80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

\* With clamping nuts with sealing, seals see page 530

# Angle Unit, Offset Type

Compatible accessories with **BLUECOMPETENCE** » mimatic mi » PolyMILL » TriMILL » TrioCut » PolyREAM

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

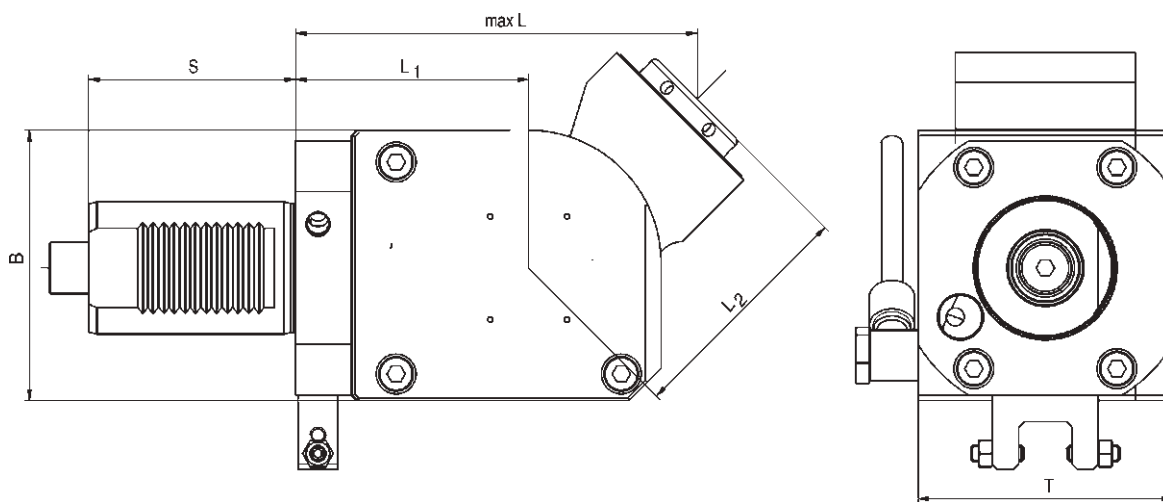
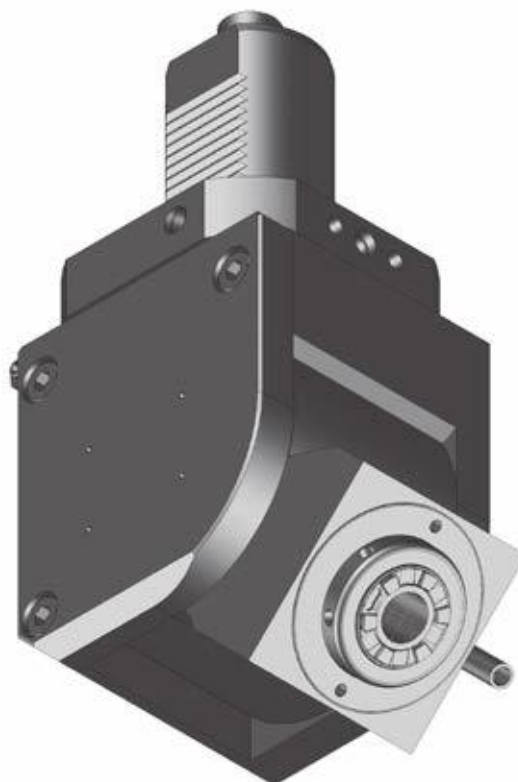


Order No.	Tool holder	Clamping range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	L mm	L1 mm	L2 mm	L3 mm	L4 mm	S mm	T mm	Rotating direction
124745	ER 32	1,0-20	80 Nm	4.000 / 4.000	i = 1:1	external	112	70	42	111,0	20	78	84	↺ ↻
124414	ER 32*	1,0-20	80 Nm	4.000 / 4.000	i = 1:1	internal	112	70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

# Angle Unit, Adjustable 0-90°

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

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

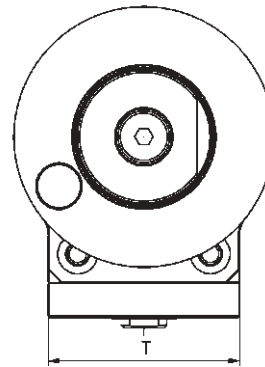
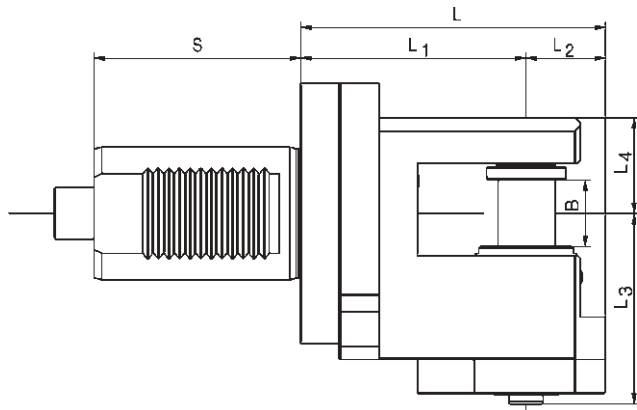
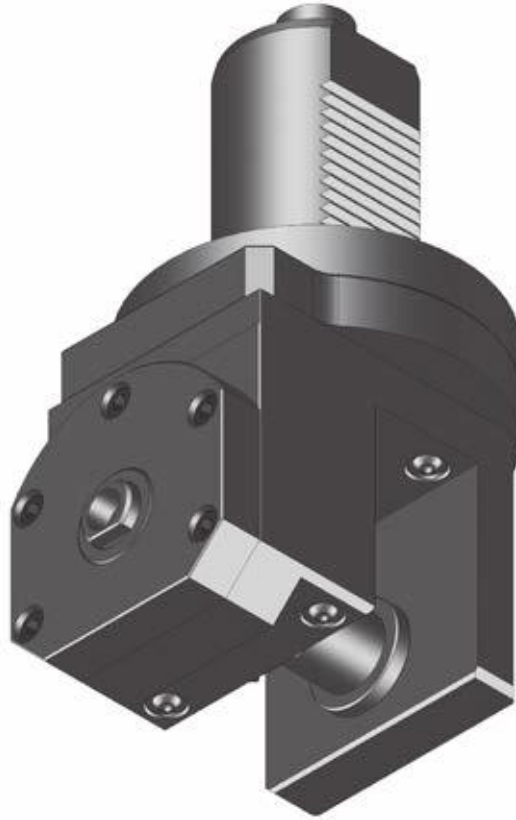


13

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
101715	ER 25	0,5-16	35 Nm	6.500 / 6.500	i = 1:1	external	178	88	90	102	78	96	↻ ↺

# Saw Blade Holder

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



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

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Sustainability Initiative



Picture shows a 90° angle head with ER 32 collet



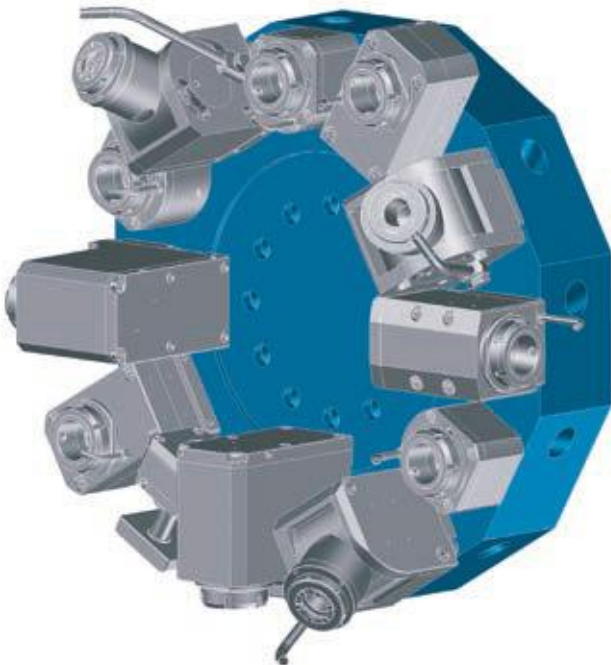
**DIN 5482 (B 25 x 22)**

**Data**

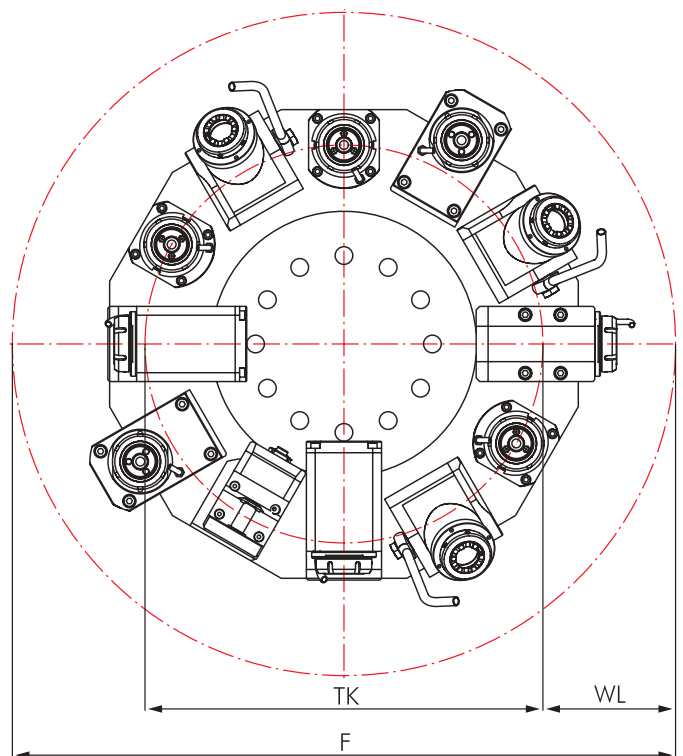
Disc-type Turret	Turret Stations
<b>Drive</b>	<b>DIN 5482 (B 25 x 22)</b>



**Disc-type Turret VDI 60**



**Interference Circles**



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

## Live Tools

Page		Page	
	<p><b>Straight Unit</b></p>  <p>396</p>		<p><b>Angle Unit, adjustable 0-100°</b></p>  <p>398</p>
	<p><b>Angle Unit</b></p>  <p>397</p>		

## Options and Accessories

<p><b>mi Toolholders</b></p> 	<p>mi System Description 471 Toolholders 473-477 Accessories 478-479</p>
<p><b>Standard VDI Toolholders</b></p> 	<p>VDI Toolholders 518-524 Accessories 525-531</p>
<p><b>Accessories</b></p> 	<p>Collets DIN 6499 526-527 Threading Collets 528-529 Wrenches 525 Clamping Nuts 525 Sleeves and Bushings 531</p>



### Delivery information

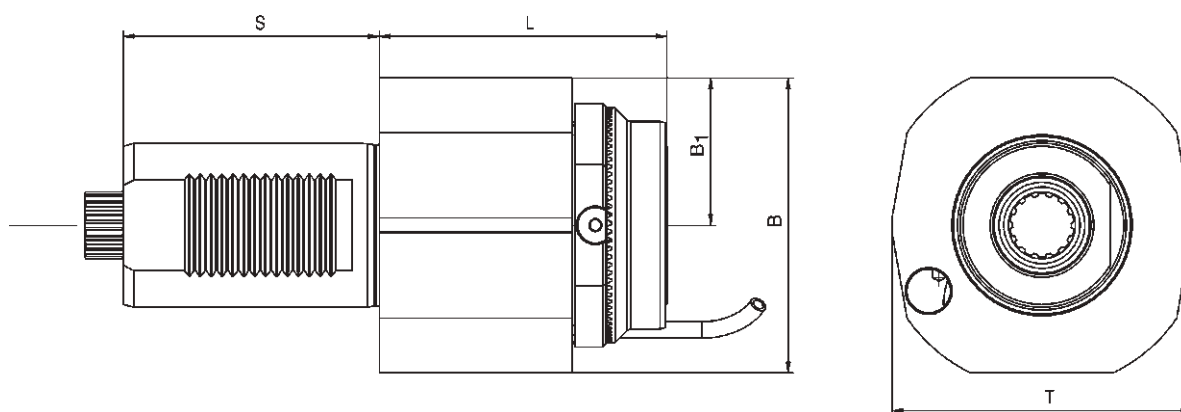
Driven toolholders with mi quick-change interface are supplied with operating wrench (see spare parts on page 479).  
Driven toolholders with other interfaces are supplied without clamping wrench (see accessories on page 525).



## Straight Unit

Compatible machines with **BLUECOMPETENCE** » mimatic mi » PolyMILL » TriMILL » TrioCut » PolyREAM

for Turret Manufacturer	
<b>SAUTER</b>	
with Drive	
<b>DIN 5482 (B 25 x 22)</b>	
Dimensions	
Revolver type	Disc-type Turret
Shank	VDI 60
Drive	DIN 5482 B 25 x 22 Z = 14 Ø 24,5 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	B mm	B1 mm	S mm	T mm	Rotating direction
123820	ER 40	3,0-26	140 Nm	4.000 / 4.000	i = 1:1	external	118,0	108	54	94	104	↻ ↻
124204	ER 40	3,0-26	140 Nm	4.000 / 4.000	i = 1:1	internal	123,0	106	52	94	96	↻ ↻
124206	mi 63	-	140 Nm	4.000 / 4.000	i = 1:1	internal	105,5	108	54	94	110	↻ ↻

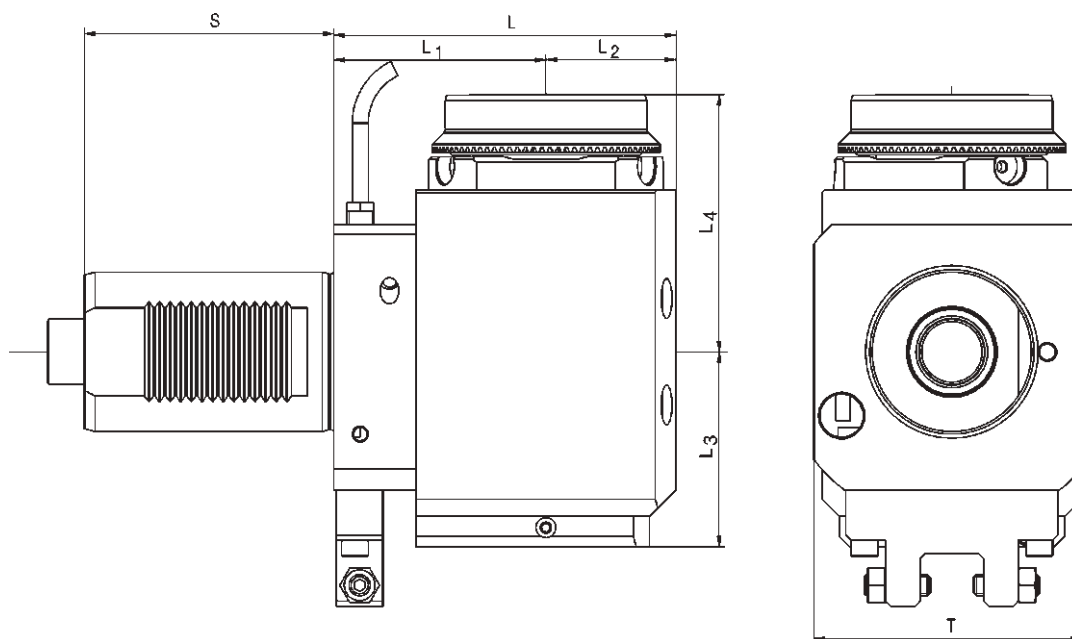
# Angle Unit

Compatible machines with **BLUECOMPETENCE** » mimatic mi » PolyMILL » TriMILL » TrioCut » PolyREAM

for Turret Manufacturer	
<b>SAUTER</b>	
with Drive	
<b>DIN 5482 (B 25 x 22)</b>	
Dimensions	
Revolver type	Disc-type Turret
Shank	VDI 60
Drive	DIN 5482 B 25 x 22 Z = 14 Ø 24,5 mm
Modular Interfaces	
<b>mimaticMi</b>	



Illustration shows right version



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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
124537	ER 40	3,0-26	80 Nm	5.200 / 5.200	i = 1:1	external	135	85	50	69,0	107,5	94	100	↺ ↻
101453	ER 40*	3,0-26	80 Nm	6.000 / 6.000	i = 1:1	internal	129	80	49	73,5	107,5	94	100	↻ ↺
124823	mi 63	-	80 Nm	4.000 / 4.000	i = 1:1	internal	130	80	50	73,5	97,0	94	105	↻ ↺
Left version:														
133738	mi 63*	-	80 Nm	4.000 / 4.000	i = 1:1	internal	130	80	50	73,5	97,0	94	102	↺ ↻

\* With clamping nuts with sealing, seals see page 530

# Angle Unit, Adjustable 0-100°

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

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

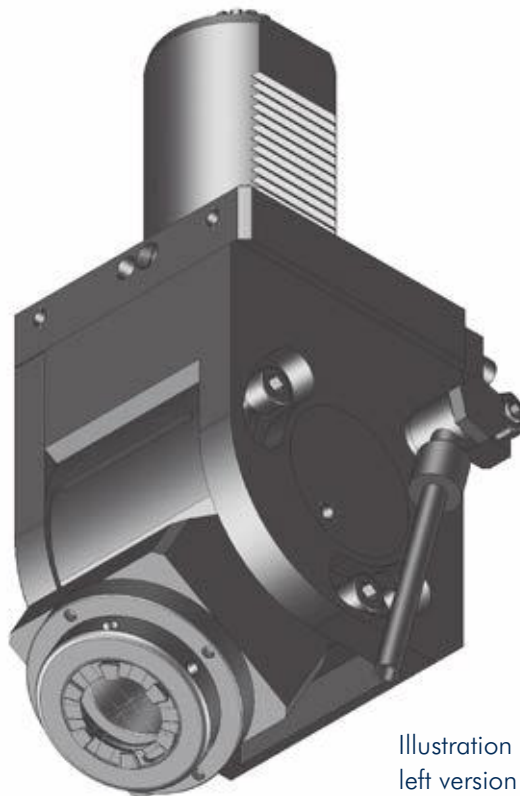
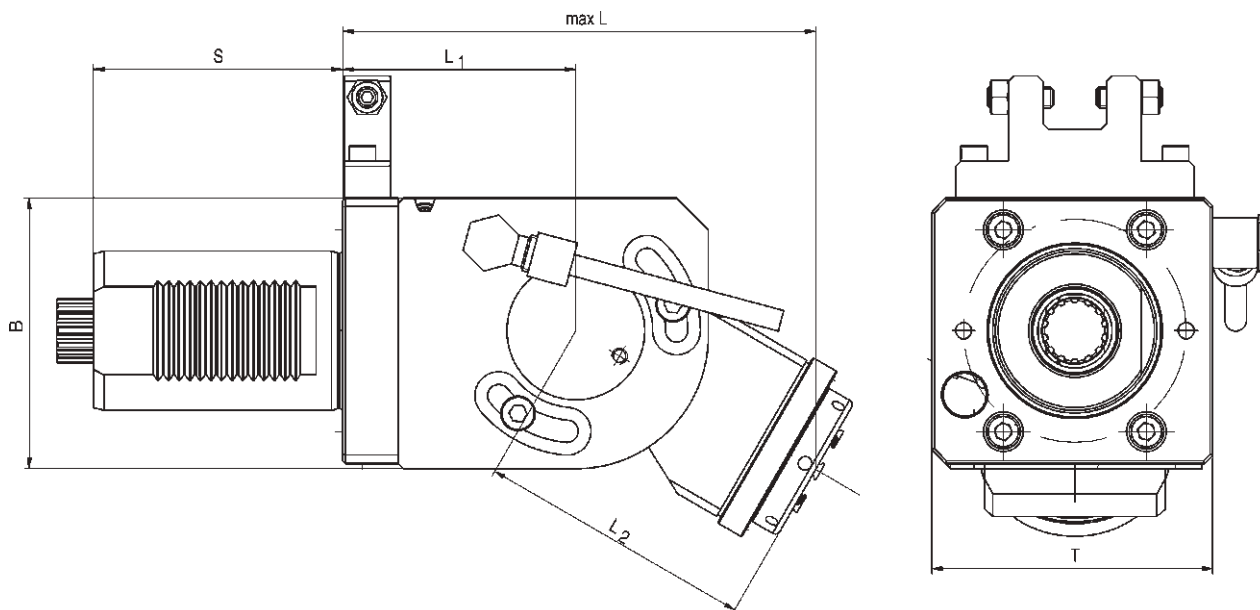


Illustration shows left version



Order No.	Tool holder	Clamping range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	L mm	L1 mm	L2 mm	B mm	S mm	T mm	Rotating direction
<b>Right version:</b>													
175813	ER 32	1,0-20	35 Nm	6.000 / 6.000	i = 1:1	external	192,5	88	104,5	106	94	106	↻ ↻
<b>Left version:</b>													
169310	ER 32	1,0-20	35 Nm	6.000 / 6.000	i = 1:1	external	192,5	88	104,5	106	94	106	↻ ↻

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Picture shows a straight unit with ER 25 collet

**SAUTER**

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

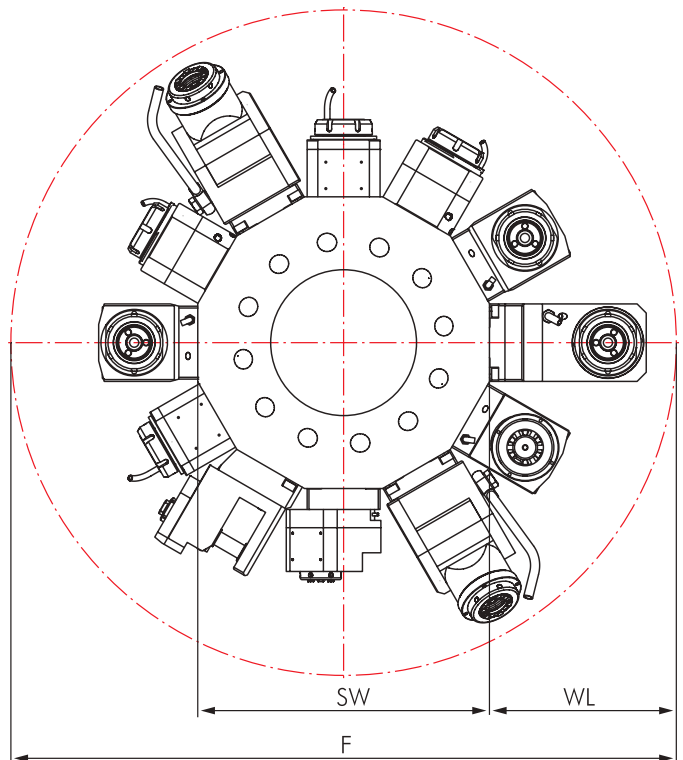
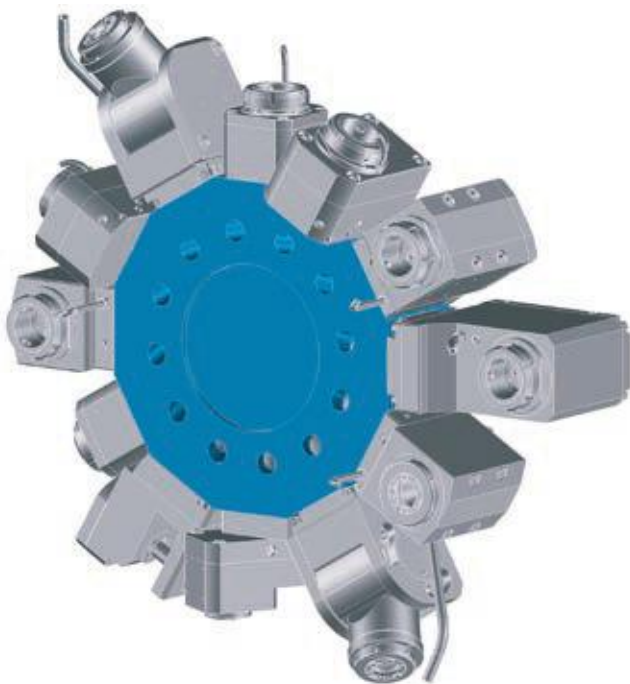
**Data**

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



**Star-type Turret VDI 30**

**Interference Circles**



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



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

**Live Tools**

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

	Page		Page
<b>Straight Unit</b>	402	<b>Angle Unit, 2-Axis</b>	407
<b>Angle Unit</b>	403-404	<b>Angle Unit, adjustable 0-100°</b>	408
<b>Angle Unit, Offset Type</b>	405-406	<b>Saw Blade Holder</b>	409

**Options and Accessories**

<b>mi Toolholders</b>		mi System Description Toolholders Accessories	471 473-477 478-479
<b>Static Toolholders for SAUTER</b>		Static Toolholders Accessories	511-515 516
<b>Accessories</b>		Collets DIN 6499 Threading Collets Wrenches Clamping Nuts Sleeves and Bushings	526-527 528-529 525 525 531



**Delivery information**

Driven toolholders with mi quick-change interface are supplied with operating wrench (see spare parts on page 479).  
Driven toolholders with other interfaces are supplied without clamping wrench (see accessories on page 525).

# Straight Unit

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

for Turret Manufacturer




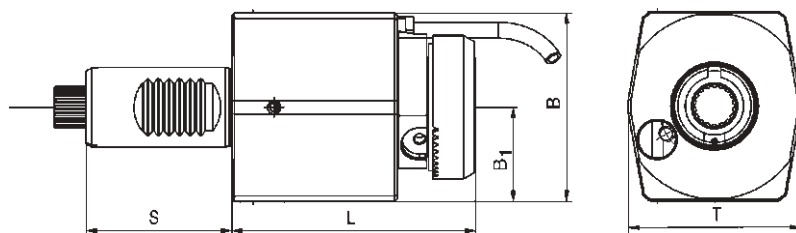
with Drive

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

Dimensions

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

Modular Interfaces

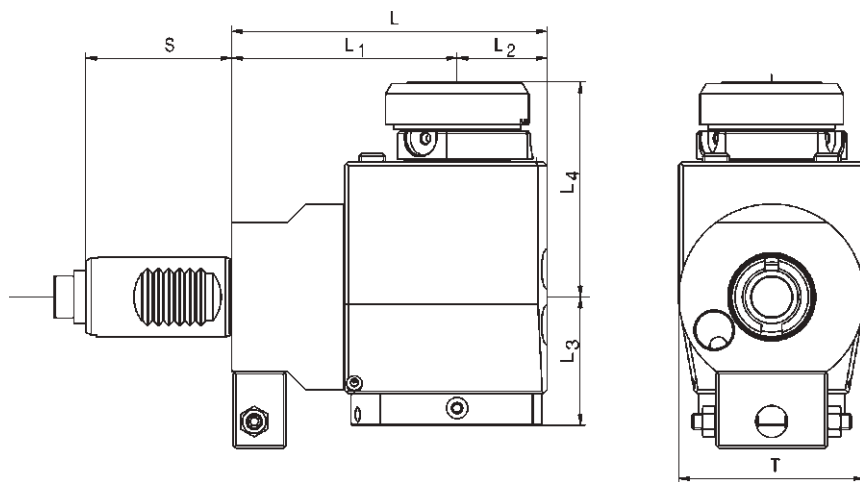
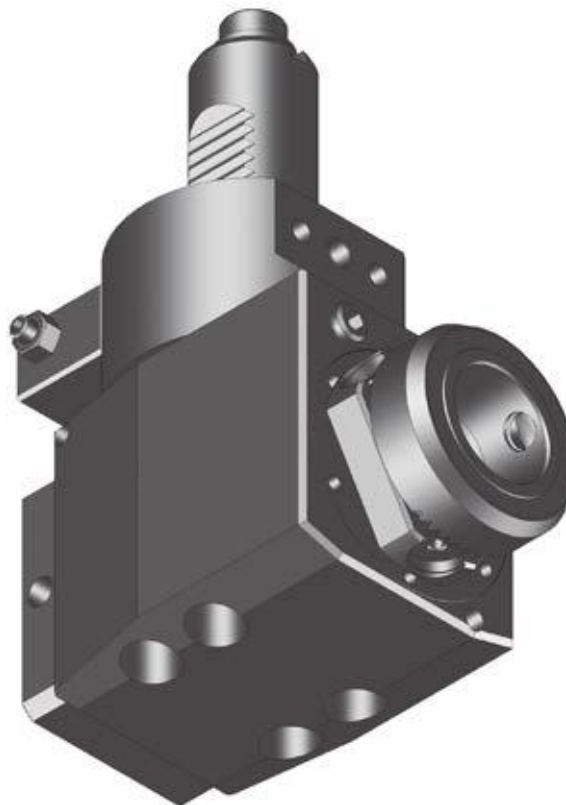



Order No.	Tool holder	Clamping range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	L mm	B mm	B1 mm	S mm	T mm	Rotating direction
133756	ER 25	0,5-16	40 Nm	6.500 / 6.500	i = 1:1	external	73	71	35	55	65	↺ ↻
133736	ER 25*	0,5-16	40 Nm	6.500 / 6.500	i = 1:1	internal	73	71	35	55	65	↻ ↺
133762	mi 40	-	40 Nm	6.500 / 6.500	i = 1:1	internal	92	71	35	55	65	↻ ↺

# Angle Unit, Right-hand Version

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

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



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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
103554	ER 25	0,5-16	25 Nm	6.500 / 6.500	i = 1:1	external	89	55	34	36,5	60,0	55	70	↺ ↻
103536	ER 25*	0,5-16	25 Nm	6.500 / 6.500	i = 1:1	internal	89	55	34	36,5	60,0	55	70	↻ ↺
168443	ER 25*	0,5-16	20 Nm	6.000 / 12.000	i = 1:2	internal	90	55	35	62,0	72,5	55	70	↻ ↺
171413**	ER 25	0,5-16	25 Nm	6.500 / 6.500	i = 1:1	external	119	85	34	36,5	60,0	55	70	↺ ↻
133739**	ER 25*	0,5-16	25 Nm	6.500 / 6.500	i = 1:1	internal	119	85	34	36,5	60,0	55	70	↻ ↺
133733**	mi 40	-	25 Nm	6.500 / 6.500	i = 1:1	internal	119	85	34	48,5	81,0	55	70	↺ ↻
133771**	ER 25	0,5-16	25 Nm	6.500 / 6.500	i = 1:1	external	134	100	34	36,5	60,0	55	70	↺ ↻
133772**	ER 25*	0,5-16	25 Nm	6.500 / 6.500	i = 1:1	internal	134	100	34	36,5	60,0	55	70	↻ ↺
133764**	mi 40	-	25 Nm	6.500 / 6.500	i = 1:1	internal	134	100	34	48,5	81,0	55	70	↻ ↺

\* With clamping nuts with sealing, seals see page 530

\*\* on request with precision adjustable unit



# Angle Unit, Left-hand Version

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

for Turret Manufacturer

**SAUTER**

with Drive

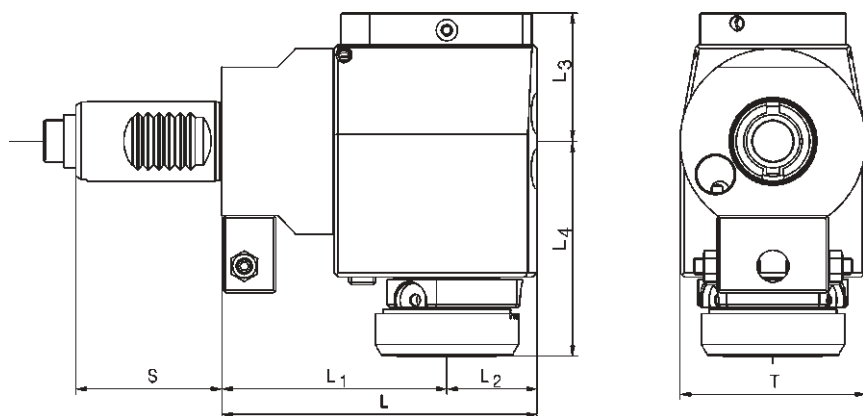
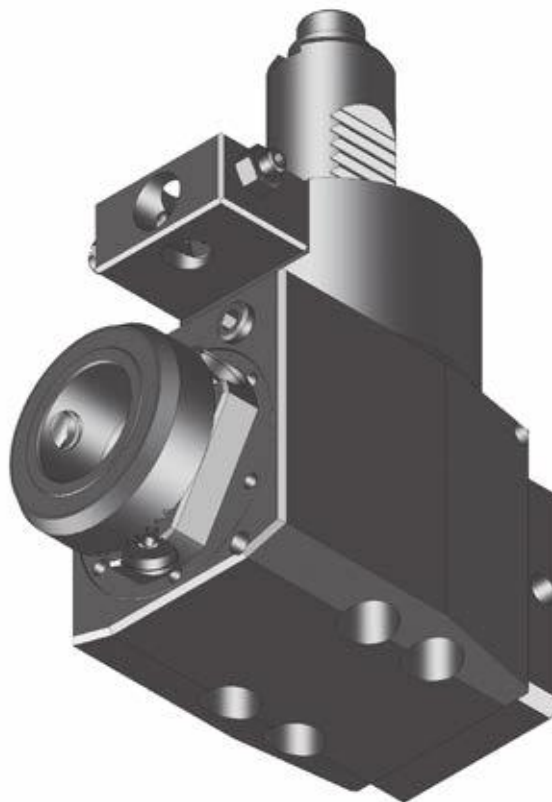
**DIN 5480**  
**(W 16 x 0,8 x 30 x 18 / 9b)**

Dimensions

Revolver type      Star-type Turret  
Shank                VDI 30  
Drive                 DIN 5480  
                             with spindle orientation  
                             detent  
                             W 16x0,8x30x18 / 9b  
                             Ø 15,9 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
103545	ER 25	0,5-16	25 Nm	6.500 / 6.500	i = 1:1	external	89	55	34	36,5	60,0	55	70	↺ ↻
103515	ER 25*	0,5-16	25 Nm	6.500 / 6.500	i = 1:1	internal	89	55	34	36,5	60,0	55	70	↺ ↻
133730**	ER 25	0,5-16	25 Nm	6.500 / 6.500	i = 1:1	external	119	85	34	36,5	60,0	55	70	↺ ↻
133731**	ER 25*	0,5-16	25 Nm	6.500 / 6.500	i = 1:1	internal	119	85	34	36,5	60,0	55	70	↺ ↻
133732**	mi 40	-	25 Nm	6.500 / 6.500	i = 1:1	internal	119	85	34	48,4	81,0	55	70	↺ ↻
168324	ER 25	0,5-16	20 Nm	6.000 / 12.000	i = 1:2	external	120	85	95	62,0	72,5	55	70	↺ ↻
168444	ER 25*	0,5-16	20 Nm	6.000 / 12.000	i = 1:2	internal	135	85	35	62,0	72,5	55	70	↺ ↻
133766**	mi 40	-	25 Nm	6.500 / 6.500	i = 1:1	external	134	100	34	48,0	81,0	55	70	↺ ↻
103507**	ER 25	0,5-16	25 Nm	6.500 / 6.500	i = 1:1	internal	134	100	34	36,5	60,0	55	70	↺ ↻
133747**	ER 25*	0,5-16	25 Nm	6.500 / 6.500	i = 1:1	external	134	100	34	36,5	60,0	55	70	↺ ↻
168325	ER 25	0,5-16	20 Nm	6.000 / 12.000	i = 1:2	internal	135	100	35	62,0	72,5	55	70	↺ ↻
168445	ER 25*	0,5-16	20 Nm	6.000 / 12.000	i = 1:2	internal	135	100	35	62,0	72,5	55	70	↺ ↻

# Angle Unit, Offset Type, Right-hand Version

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

for Turret Manufacturer



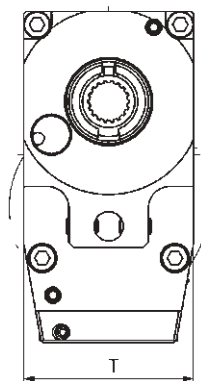
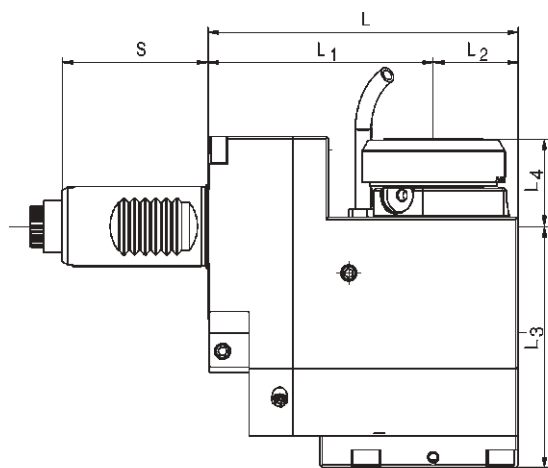
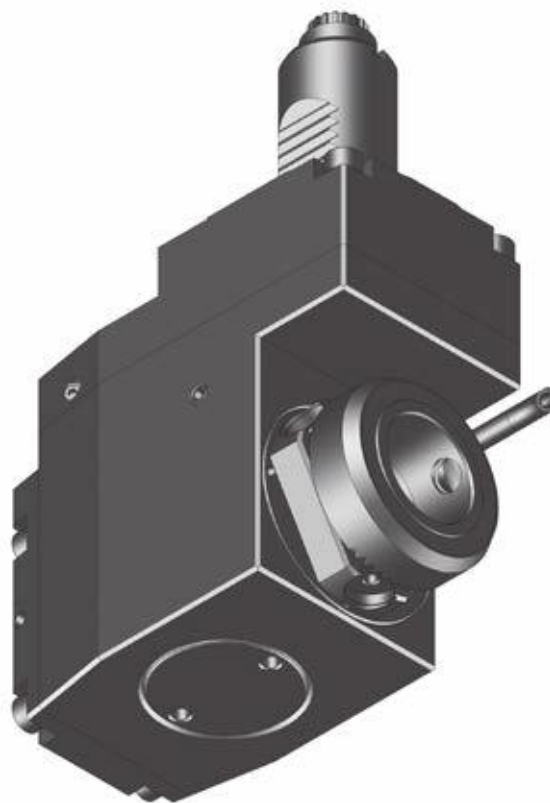
with Drive

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

Dimensions

Revolver type	Star-type Turret
Shank	VDI 30
Drive	DIN 5480 with spindle orientation detent W 16 x 0,8 x 30 x 18 / 9b Ø 15,9 mm

Modular Interfaces

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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
103539	ER 25	0,5-16	25 Nm	6.500 / 6.500	i = 1:1	external	117	85	32	91	15	55	64	↺ ↻
103555	ER 25*	0,5-16	25 Nm	6.500 / 6.500	i = 1:1	internal	117	85	32	91	15	55	64	↻ ↺
169187	mi 40	-	25 Nm	6.500 / 6.500	i = 1:1	internal	117	85	32	91	33	55	64	↻ ↺
103546	ER 25	0,5-16	25 Nm	6.500 / 6.500	i = 1:1	external	132	100	32	91	15	55	64	↻ ↺
103547	ER 25*	0,5-16	25 Nm	6.500 / 6.500	i = 1:1	internal	132	100	32	91	15	55	64	↺ ↻

\* With clamping nuts with sealing, seals see page 530

# Angle Unit, Offset Type, Left-hand Version

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

for Turret Manufacturer



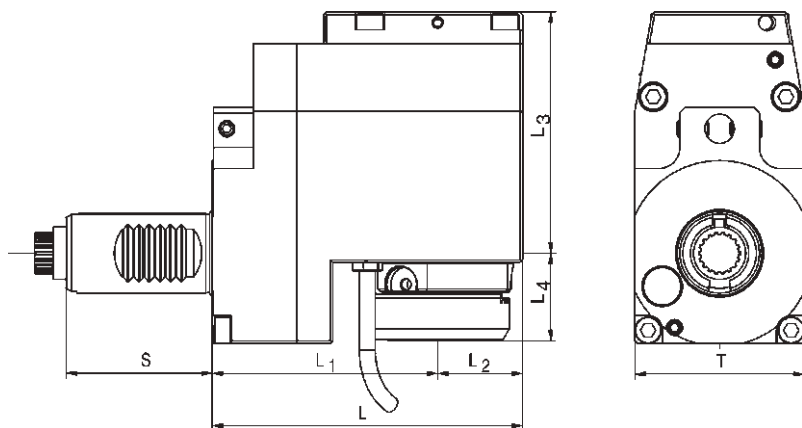
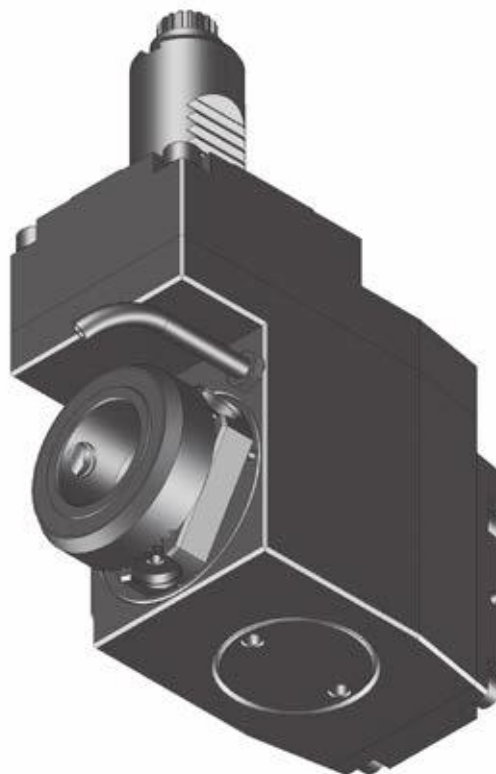
with Drive

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

Dimensions

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

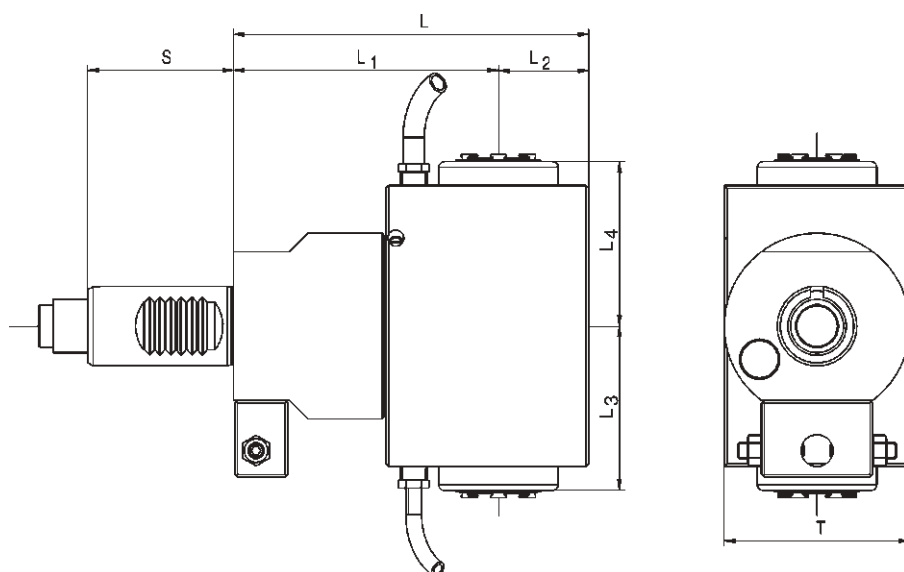
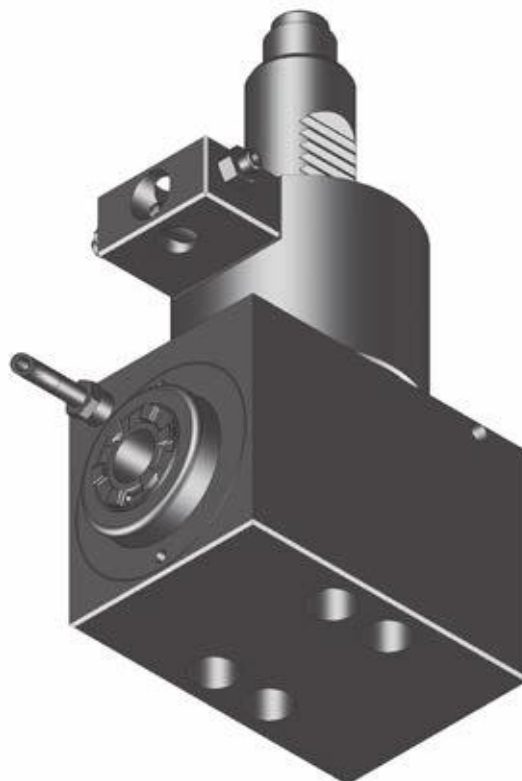
Modular Interfaces

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
103526	ER 25	0,5-16	25 Nm	6.500 / 6.500	i = 1:1	external	117	85	32	91	20	55	64	↺ ↻
103565	ER 25*	0,5-16	25 Nm	6.500 / 6.500	i = 1:1	internal	117	85	32	91	20	55	64	↻ ↺
169191	mi 40	-	25 Nm	6.500 / 6.500	i = 1:1	internal	117	85	32	91	33	55	64	↻ ↺
103551	ER 25	0,5-16	25 Nm	6.500 / 6.500	i = 1:1	external	132	100	32	91	20	55	64	↺ ↻
103517	ER 25*	0,5-16	25 Nm	6.500 / 6.500	i = 1:1	internal	132	100	32	91	20	55	64	↻ ↺

## Angle Unit, 2-Axis

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



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

\* with precision adjustable unit PIN Ø 8 mm

\*\* on request with precision adjustable unit

# Angle Unit, Adjustable 0-100°

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

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

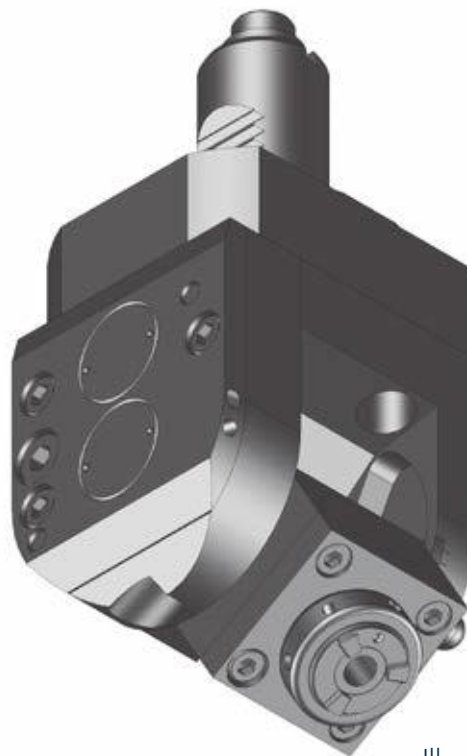
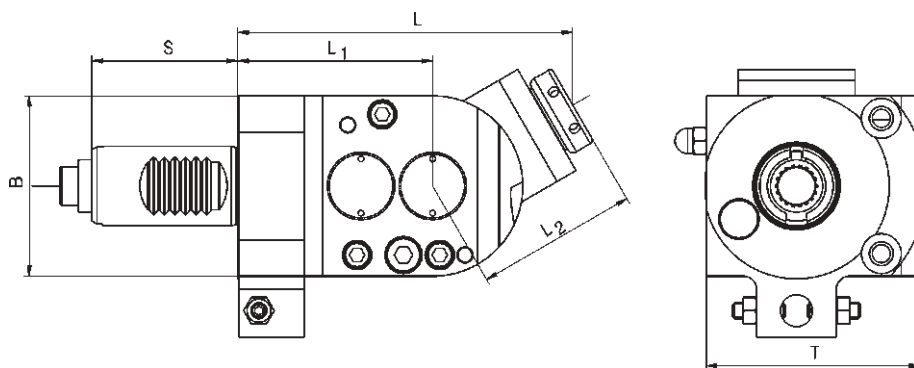


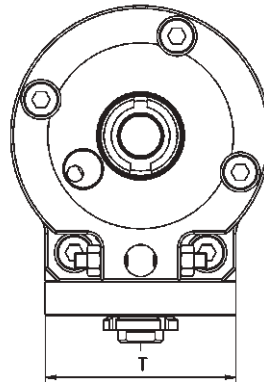
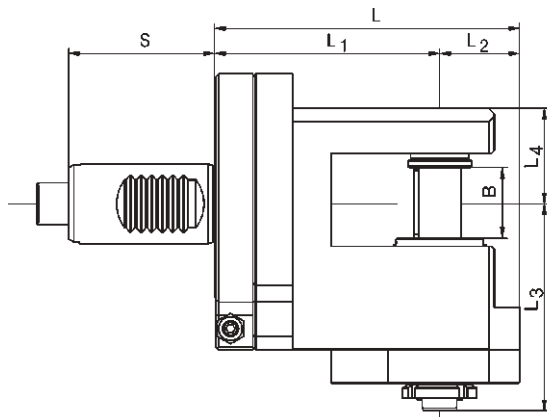
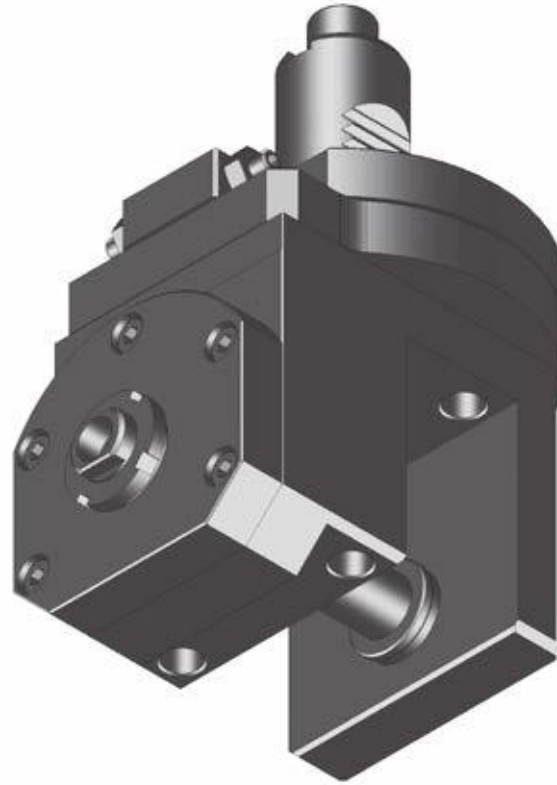
Illustration shows right version



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

# Saw Blade Holder

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



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

\* Saw blade diameter max. = 80 mm

**SAUTER**

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

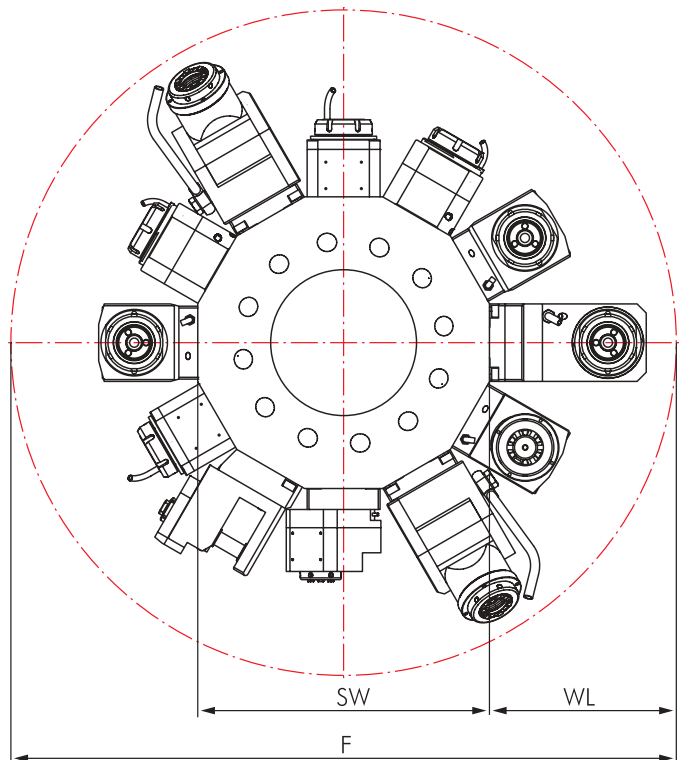
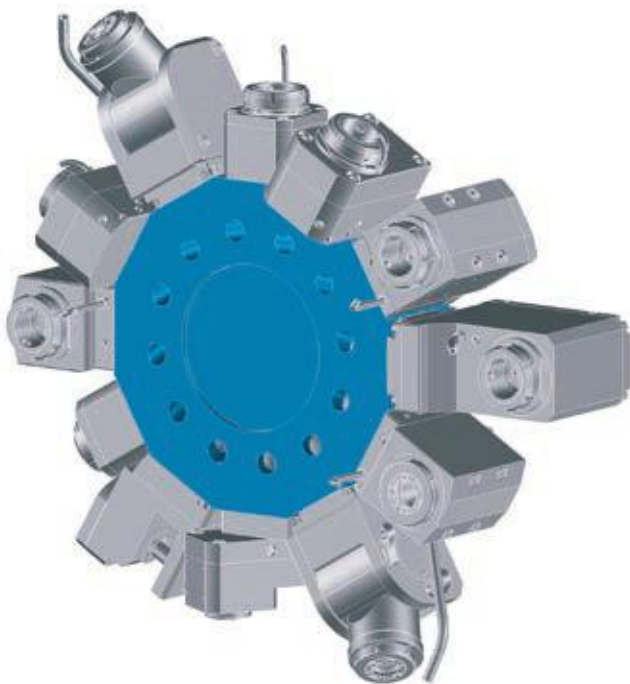
**Data**

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



**Star-type Turret VDI 40**

**Interference Circles**



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



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

**Live Tools**

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

	Page		Page
<b>Straight Unit</b>	412	<b>Angle Unit, 2-Axis</b>	417
<b>Angle Unit</b>	413-414	<b>Angle Unit, adjustable 0-100°</b>	418
<b>Angle Unit, Offset Type</b>	415-416	<b>Saw Blade Holder</b>	419

**Options and Accessories**

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<b>Static Toolholders for SAUTER</b>		Static Toolholders Accessories	511-515 516
<b>Accessories</b>		Collets DIN 6499 Threading Collets Wrenches Clamping Nuts Sleeves and Bushings	526-527 528-529 525 525 531



**Delivery information**

Driven toolholders with mi quick-change interface are supplied with operating wrench (see spare parts on page 479).  
Driven toolholders with other interfaces are supplied without clamping wrench (see accessories on page 525).



## Straight Unit

Connectable to second axis with **BLUECOMPETENCE** » mimatic mi » PolyMILL » TriMILL » TrioCut » PolyREAM

for Turret Manufacturer

**SAUTER**

with Drive

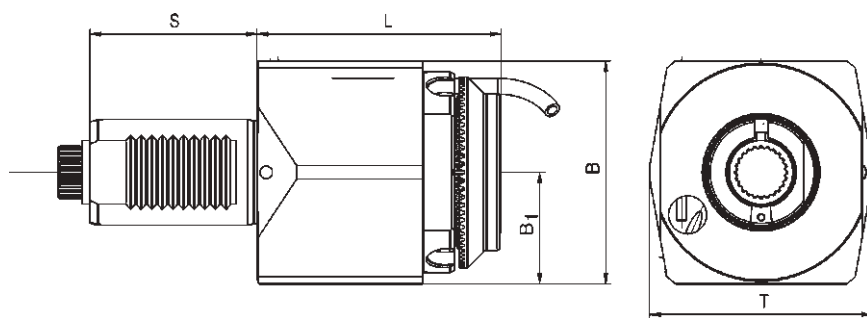
**DIN 5480**  
**(W 20 x 0,8 x 30 x 24 / 9b)**

Dimensions

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

Modular Interfaces

**mimaticMi**  
**HydroFLEX**



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

# Angle Unit, Right-hand Version

Compatible accessories with **BLUECOMPETENCE** » mimatic mi » PolyMILL » TriMILL » TrioCut » PolyREAM

for Turret Manufacturer

**SAUTER**

with Drive

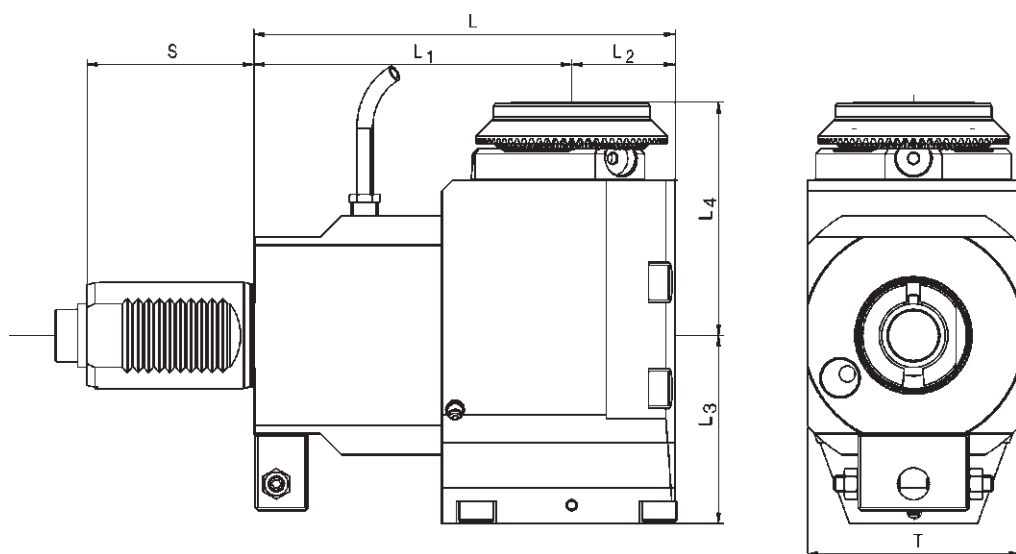
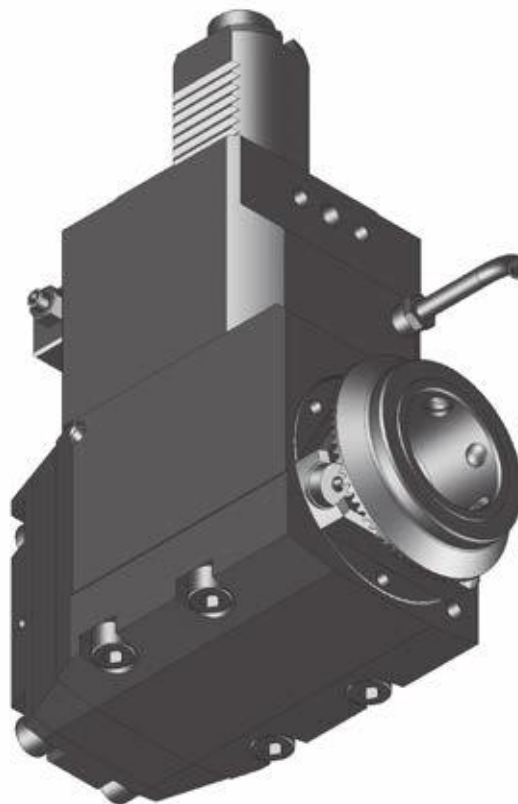
**DIN 5480**  
**(W 20 x 0,8 x 30 x 24 / 9b)**

Dimensions

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

Modular Interfaces

**mimaticMi**  
**HydroFLEX**



13

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
133765**	ER 32	1,0-20	80 Nm	5.400 / 5.400	i = 1:1	external	139	100	39	69,0	70	63	85	↺ ↻
133780**	ER 32*	1,0-20	80 Nm	5.400 / 5.400	i = 1:1	internal	139	100	39	75,5	70	63	85	↺ ↻
133754**	mi 50	-	80 Nm	5.400 / 5.400	i = 1:1	internal	139	100	43	75,5	88	63	80	↺ ↻
133802	HF 20	6,0-20	20 Nm	6.500 / 13.000	i = 1:2	internal	139	100	39	72,5	92	63	85	↺ ↻
133748**	ER 32	1,0-20	80 Nm	5.400 / 5.400	i = 1:1	external	159	120	39	69,0	70	63	85	↺ ↻
133773**	ER 32*	1,0-20	80 Nm	5.400 / 5.400	i = 1:1	internal	159	120	39	75,5	70	63	85	↺ ↻
133757**	mi 50	-	80 Nm	5.400 / 5.400	i = 1:1	internal	163	120	43	75,5	88	63	80	↺ ↻
101568	ER 25*	0,5-16	20 Nm	6.000 / 12.000	i = 1:2	internal	159	120	39	72,5	75	63	85	↺ ↻

\* With clamping nuts with sealing, seals see page 530

\*\* on request with precision adjustable unit

# Angle Unit, Left-hand Version

Compatible machines with **BLUECOMPETENCE** » mimatic mi » PolyMILL » TriMILL » TrioCut » PolyREAM

for Turret Manufacturer

**SAUTER**

with Drive

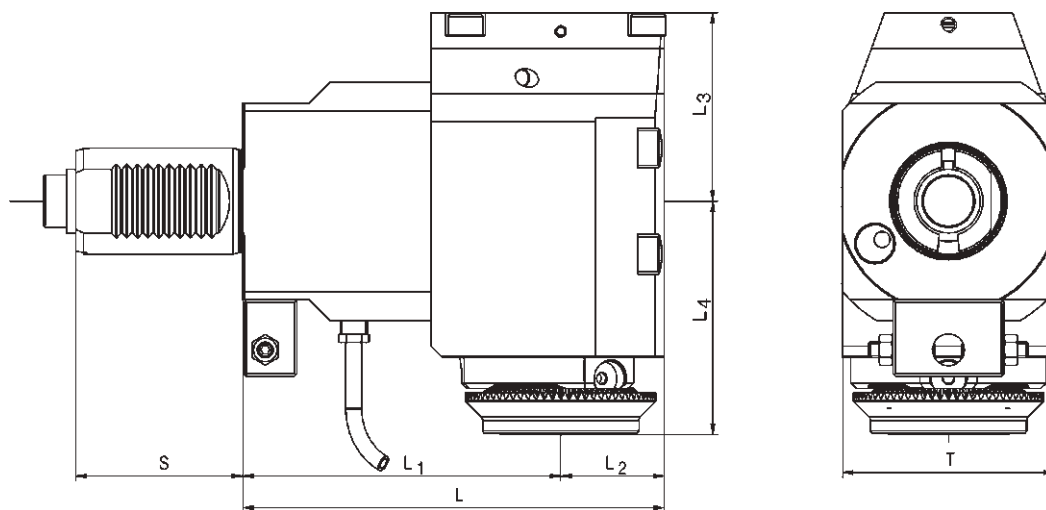
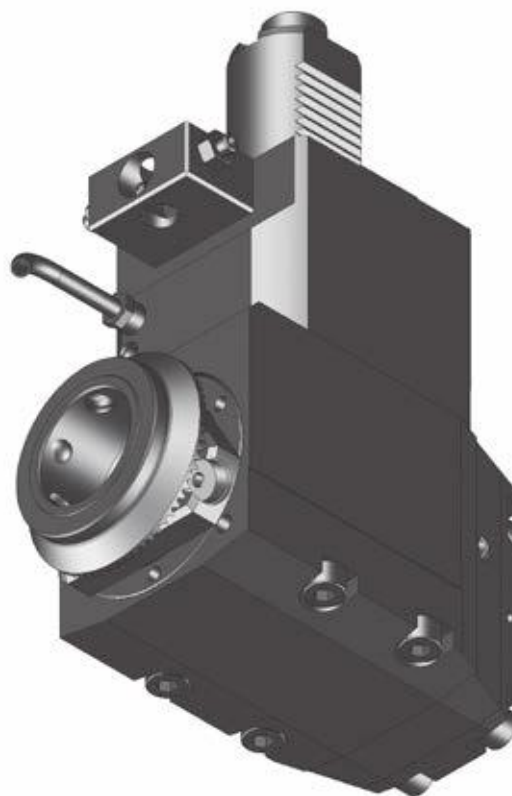
**DIN 5480**  
**(W 20 x 0,8 x 30 x 24 / 9b)**

Dimensions

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

Modular Interfaces

**mimaticMi**  
**HydroFLEX**




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
133741**	ER 32	1,0-20	80 Nm	5.400 / 5.400	i = 1:1	external	139	100	39	69,0	70	63	85	↺ ↻
133779**	ER 32*	1,0-20	80 Nm	5.400 / 5.400	i = 1:1	internal	139	100	39	75,5	70	63	85	↺ ↻
133744**	mi 50	-	80 Nm	5.400 / 5.400	i = 1:1	internal	143	100	43	75,5	88	63	80	↺ ↻
133802**	HF 20	6,0-20	20 Nm	6.500 / 13.000	i = 1:2	internal	139	100	39	72,5	92	63	85	↺ ↻
103561**	ER 32	1,0-20	80 Nm	5.400 / 5.400	i = 1:1	external	159	120	39	69,0	70	63	85	↺ ↻
133776**	ER 32*	1,0-20	80 Nm	5.400 / 5.400	i = 1:1	internal	159	120	39	75,5	70	63	85	↺ ↻
133768**	mi 50	-	80 Nm	5.400 / 5.400	i = 1:1	internal	163	120	43	75,5	88	63	80	↺ ↻
177075**	ER 25	0,5-16	20 Nm	6.000 / 12.000	i = 1:2	internal	159	120	39	72,5	75	63	85	↺ ↻

# Angle Unit, Offset Type, Right-hand Version

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

for Turret Manufacturer




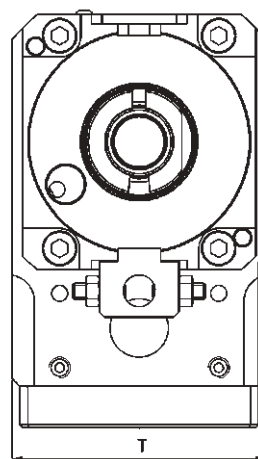
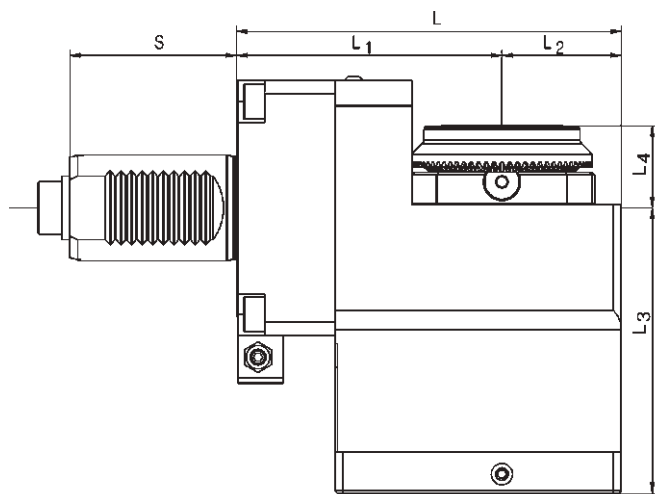
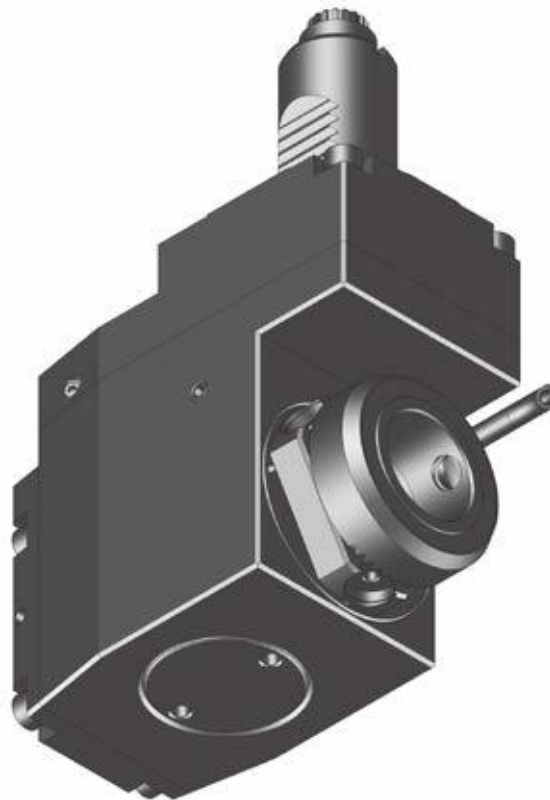
with Drive

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

Dimensions

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

Modular Interfaces

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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
133759	ER 32	1,0-20	80 Nm	6.000 / 6.000	i = 1:1	external	142	100	42	111,0	20	63	85	↺ ↻
133774	ER 32*	1,0-20	80 Nm	6.000 / 6.000	i = 1:1	internal	142	100	42	111,0	20	63	85	↻ ↺
133782**	mi 50	-	80 Nm	4.000 / 4.000	i = 1:1	internal	145	100	45	107,5	31	63	96	↻ ↺
103552	ER 32	1,0-20	80 Nm	5.400 / 5.400	i = 1:1	external	162	120	42	111,0	20	63	85	↺ ↻
103540	ER 32*	1,0-20	80 Nm	5.400 / 5.400	i = 1:1	internal	162	120	42	111,0	20	63	85	↻ ↺
103553**	mi 50	-	80 Nm	4.000 / 4.000	i = 1:1	internal	165	120	45	107,5	31	63	96	↻ ↺

\* With clamping nuts with sealing, seals see page 530

\*\* on request with precision adjustable unit

# Angle Unit, Offset Type, Left-hand Version

Compatible accessories with **BLUECOMPETENCE** » mimatic mi » PolyMILL » TriMILL » TrioCut » PolyREAM

for Turret Manufacturer



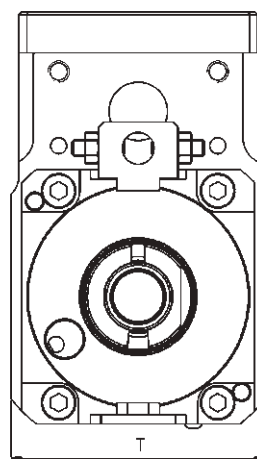
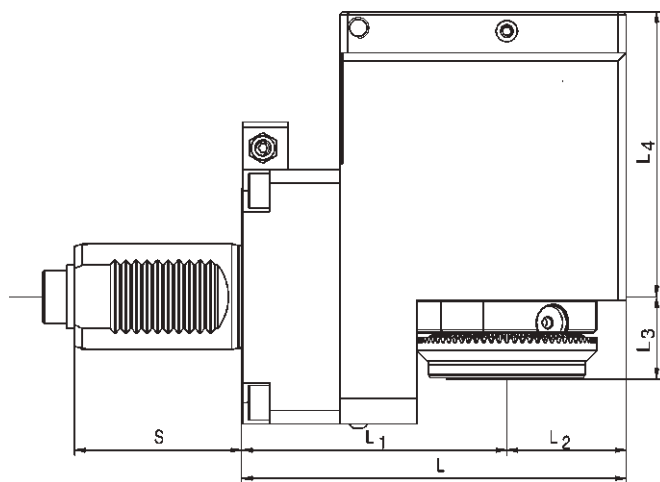
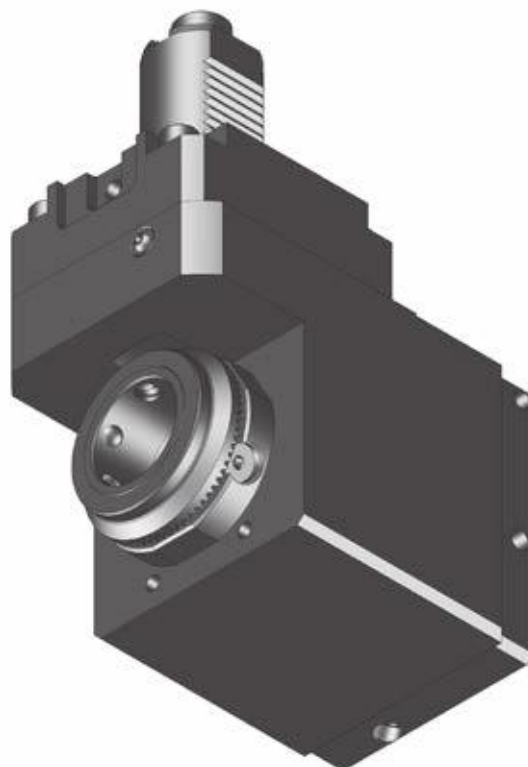
with Drive

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

Dimensions

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

Modular Interfaces

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
133781	ER 32	1,0-20	80 Nm	6.000 / 6.000	i = 1:1	external	142	100	42	111,0	20	63	85	↺ ↻
133758	ER 32*	1,0-20	80 Nm	6.000 / 6.000	i = 1:1	internal	142	100	42	111,0	20	63	85	↻ ↺
103572**	mi 50	-	80 Nm	4.000 / 4.000	i = 1:1	internal	145	100	45	107,5	31	63	96	↻ ↺
103567	ER 32	1,0-20	80 Nm	5.400 / 5.400	i = 1:1	external	162	120	42	111,0	20	63	85	↺ ↻
103548	ER 32*	1,0-20	80 Nm	5.400 / 5.400	i = 1:1	internal	162	120	42	111,0	20	63	85	↻ ↺
103584**	mi 50	-	80 Nm	4.000 / 4.000	i = 1:1	internal	165	120	45	107,5	31	63	96	↻ ↺

# Angle Unit, 2-Axis

Compatible accessories with **BLUECOMPETENCE** » mimatic mi » PolyMILL » TriMILL » TrioCut » PolyREAM

for Turret Manufacturer

**SAUTER**

with Drive

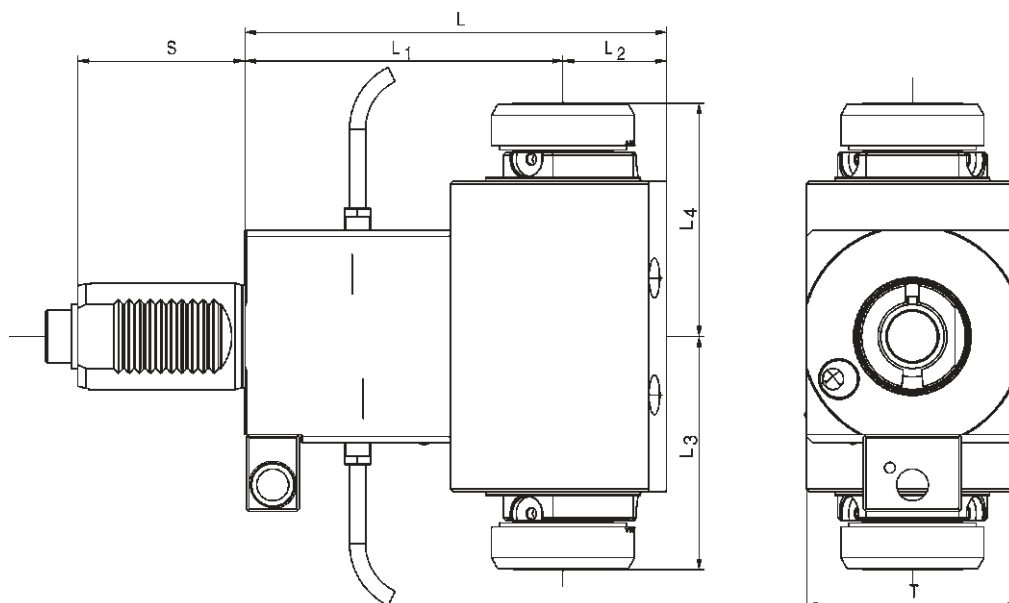
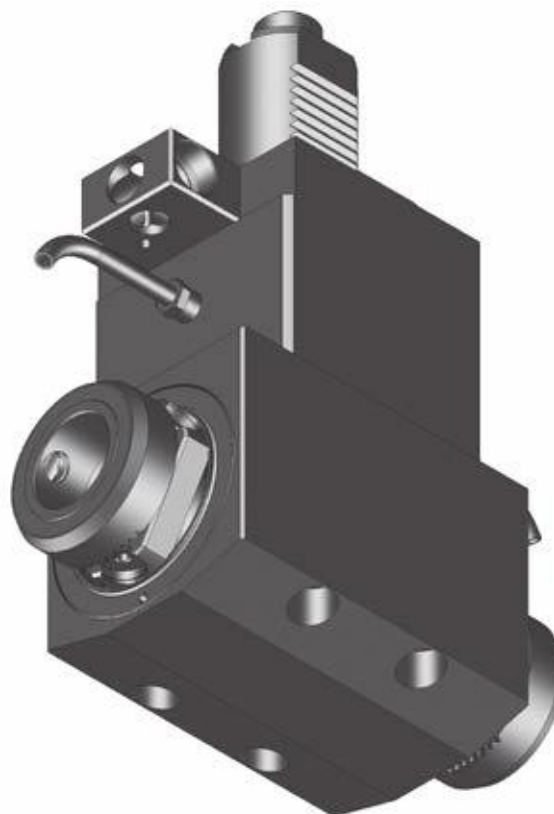
**DIN 5480**  
**(W 20 x 0,8 x 30 x 24 / 9b)**

Dimensions

Revolver type      Star-type Turret  
Shank                VDI 40  
Drive                 DIN 5480  
                          with spindle orientation  
                          detent  
                          W 20x0,8x30x24 / 9b  
                          Ø 19,84 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
103585*	2x ER 25	0,5-16	20 Nm	6.500 / 6.500	i = 1:1	external	154	120	39	62	62	63	70
103593*	2x mi 40	-	50 Nm	6.500 / 6.500	i = 1:1	external	154	120	39	88	88	63	70

\* with precision adjustable unit PIN Ø 8 mm

# Angle Unit, Adjustable 0-100°

Compatible in accordance with **BLUECOMPETENCE** » PolyMILL » TriMILL » PolyREAM

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

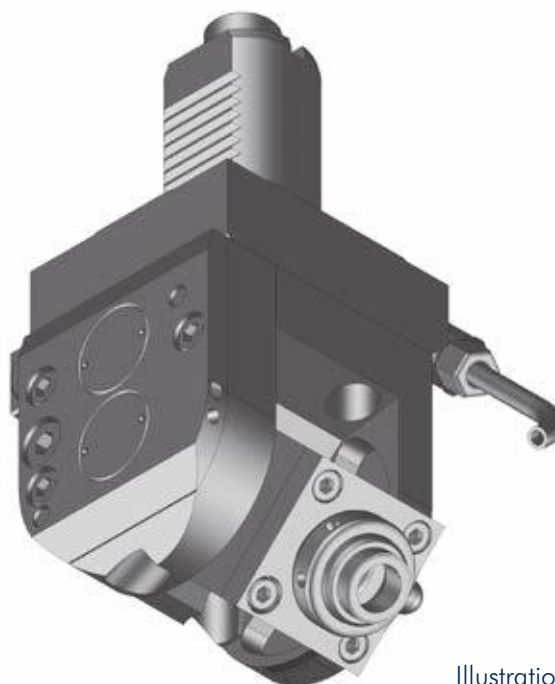
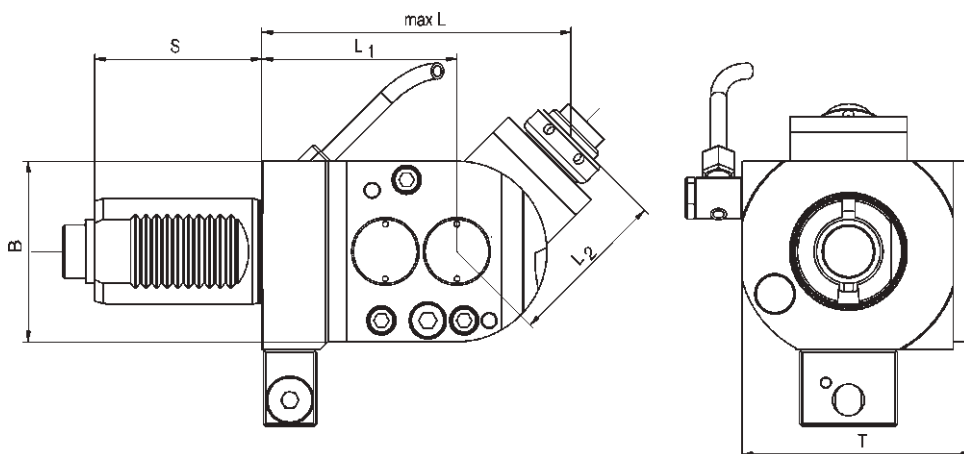


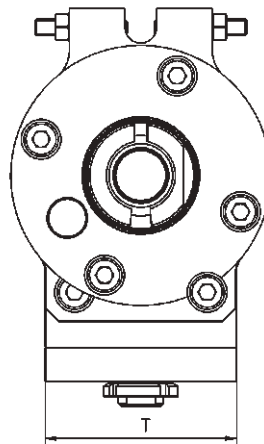
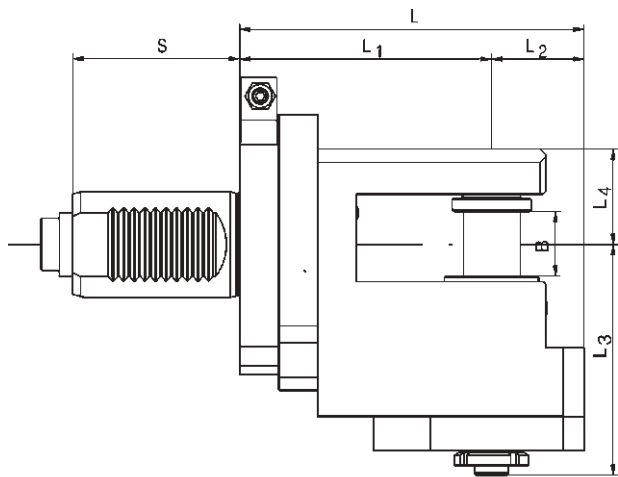
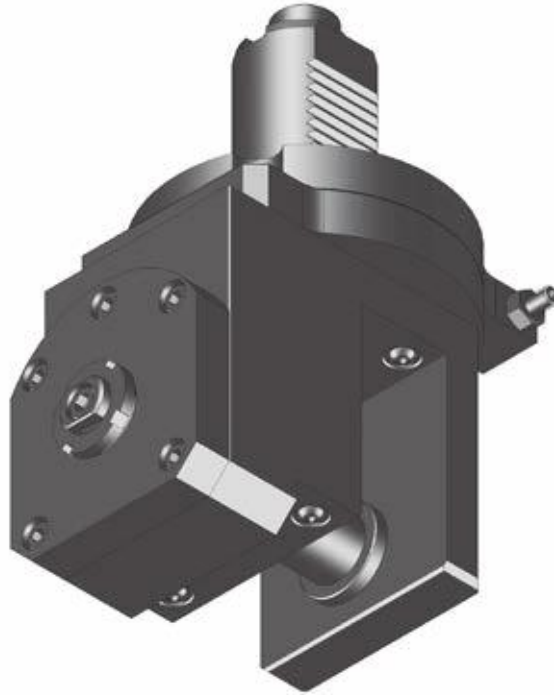
Illustration show right version



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

# Saw Blade Holder

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



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

\* Saw blade diameter max. = 100 mm





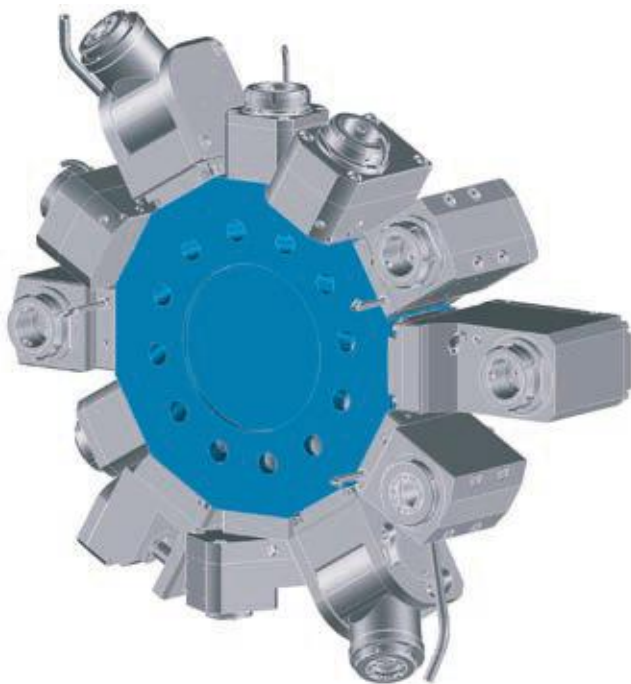
**VL 3/5 + VSC 200/250**

**Data**

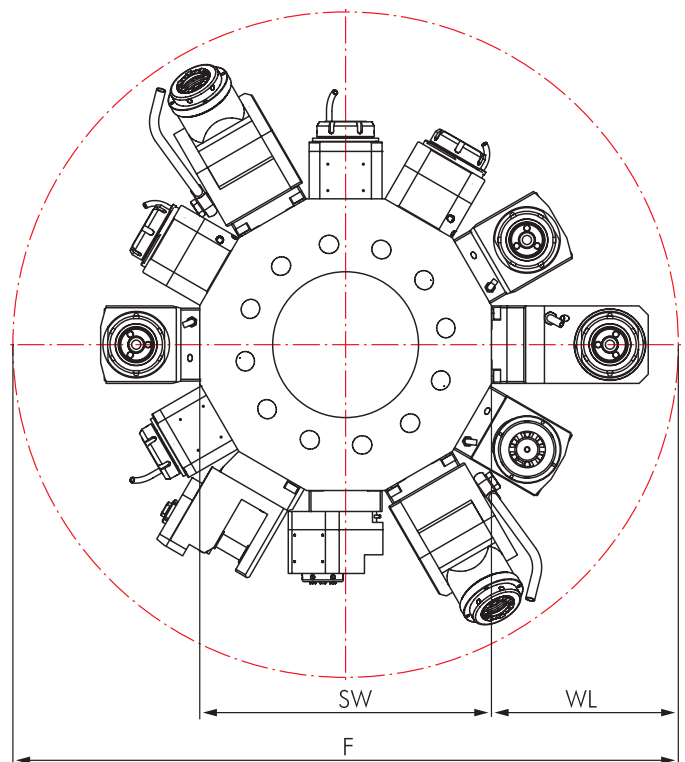
Machine type Series		Turret Stations
<b>VL</b>	<b>3</b>	12
<b>VL</b>	<b>5</b>	12
<b>VSC</b>	<b>200</b>	12
<b>VSC</b>	<b>250</b>	12



**Star-type Turret VDI 40**



**Interference Circles**



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



**VL 3/5 + VSC 200/250**

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

## Live Tools

	Page		Page
<b>Straight Unit</b>	422	<b>Angle Unit, Offset Type</b>	425
<b>Straight Unit, Offset Type</b>	423	<b>Angle Unit, adjustable 0-100°</b>	426
<b>Angle Unit</b>	424	<b>Saw Blade Holder</b>	427

## Options and Accessories

<b>mi Toolholders</b>		mi System Description Toolholders Accessories	471 473-477 478-479
<b>Standard VDI Toolholders</b>		VDI Toolholders Accessories	518-524 525-531
<b>Accessories</b>		Collets DIN 6499 Threading Collets Wrenches Clamping Nuts Sleeves and Bushings	526-527 528-529 525 525 531



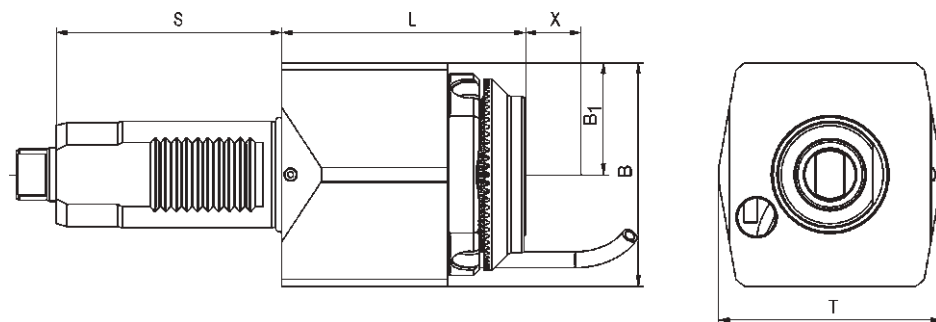
### Delivery information

Driven toolholders with mi quick-change interface are supplied with operating wrench (see spare parts on page 479).  
Driven toolholders with other interfaces are supplied without clamping wrench (see accessories on page 525).

# Straight Unit

Compatible accessories with **BLUECOMPETENCE** » mimatic mi » PolyMILL » TriMILL » TrioCut » PolyREAM

for Manufacturer	
	
for Machine type	
<b>VL 3/5</b> <b>VSC 200/250</b>	
Dimensions	
Turret type	Star-type Turret
Shank	VDI 40
Drive	Tang
SW	10,95 mm
Modular Interfaces	
<b>mimaticMi</b> <b>HydroFLEX</b>	

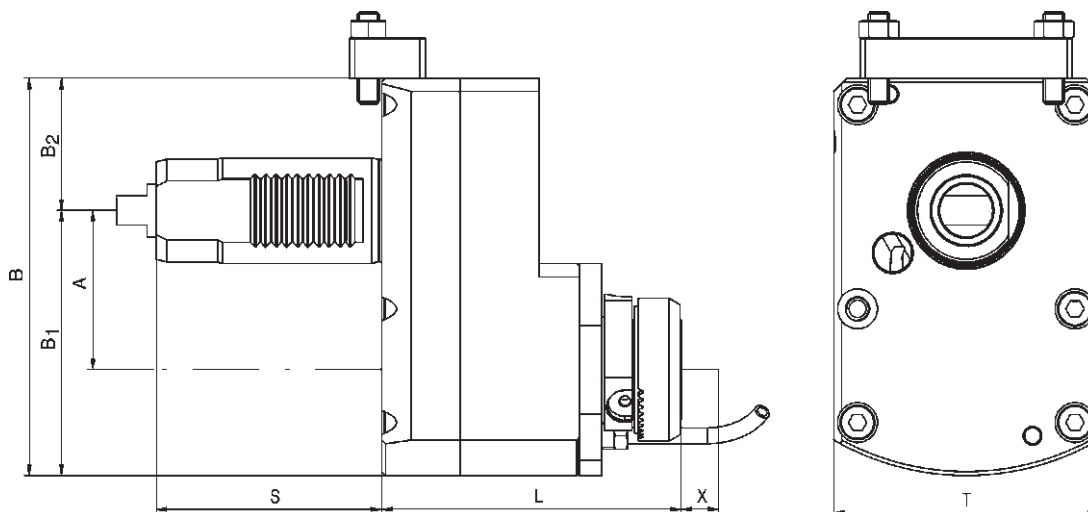


Order No.	Tool holder	Clamping range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	L mm	B mm	B1 mm	S mm	T mm	Rotating direction
123916	ER 32	1,0-20	80 Nm	6.500 / 6.500	i = 1:1	external	80	80	40	85	89	↺ ↻
124305	ER 32*	1,0-20	80 Nm	6.500 / 6.500	i = 1:1	internal	80	80	40	85	89	↻ ↺
124315	mi 50	-	80 Nm	6.500 / 6.500	i = 1:1	internal	92	84	42	85	84	↻ ↺
124311	mi 40	-	80 Nm	6.500 / 6.500	i = 1:1	internal	92	84	42	85	84	↻ ↺
124285	HF 20	6,0-20	80 Nm	6.500 / 6.500	i = 1:1	internal	85	80	40	85	89	↻ ↺
123947	ER 25	0,5-16	50 Nm	5.000 / 10.000	i = 1:2	external	155	90	40	85	120	↻ ↺

# Straight Unit, Offset Type

Compatible machines with **BLUECOMPETENCE** » mimatic mi » PolyMILL » TriMILL » TrioCut » PolyREAM

for Manufacturer	
	
for Machine type	
<b>VL 3/5</b> <b>VSC 200/250</b>	
Dimensions	
Turret type	Star-type Turret
Shank	VDI 40
Drive	Tang
SW	10,95 mm
Modular Interfaces	
<b>mimaticMi</b> <b>HydroFLEX</b>	



13

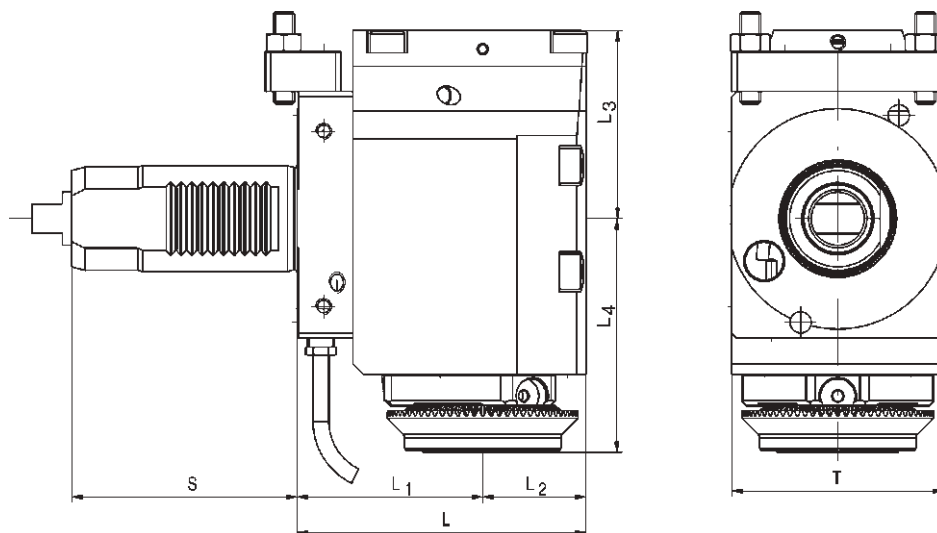
Order No.	Tool holder	Clamping range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	L mm	A mm	B mm	B1 mm	B2 mm	S mm	T mm	Rotating direction
124069	ER 25	0,5-16	50 Nm	5.000 / 10.000	i = 1:2	external	94,0	60	150	100	50	85	100	↺ ↻
123720	ER 25*	0,5-16	50 Nm	6.000 / 12.000	i = 1:2	internal	94,0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

\* With clamping nuts with sealing, seals see page 530

# Angle Unit

Compatible machines with **BLUECOMPETENCE** » mimatic mi » PolyMILL » TriMILL » TrioCut » PolyREAM


for Manufacturer	
	
for Machine type	
<b>VL 3/5</b> <b>VSC 200/250</b>	
Dimensions	
Turret type	Star-type Turret
Shank	VDI 40
Drive	Tang
SW	10,95 mm
Modular Interfaces	
<b>mimaticMi</b> <b>HydroFLEX</b>	

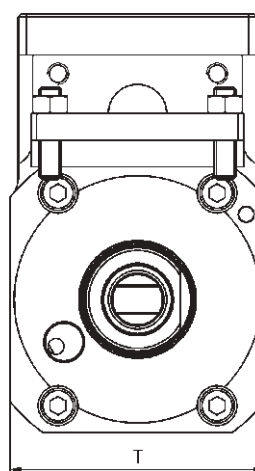
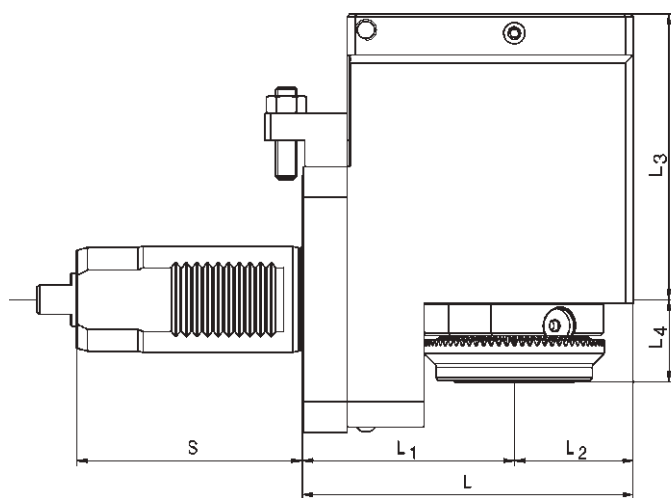
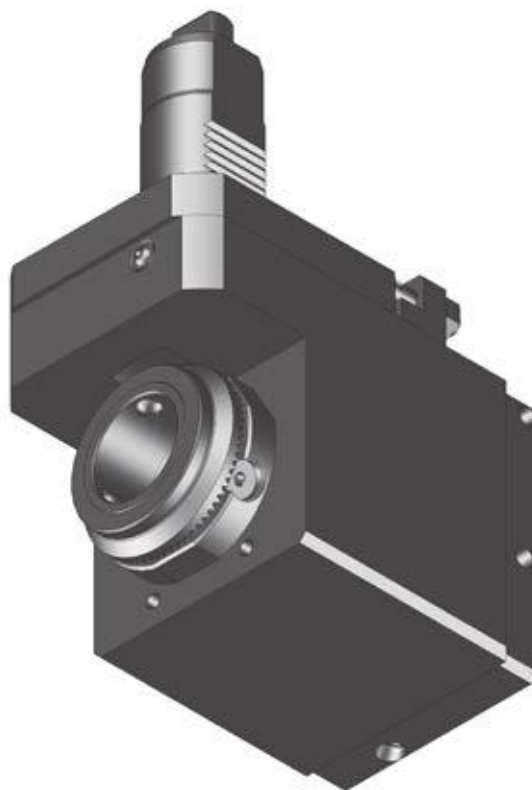


Order No.	Tool holder	Clamping range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	L mm	L1 mm	L2 mm	L3 mm	L4 mm	S mm	T mm	Rotating direction
124659	ER 32	1,0-20	50 Nm	6.500 / 6.500	i = 1:1	external	113	70	43	71,0	70	85	80	↺ ↻
124894	ER 32*	1,0-20	50 Nm	6.500 / 6.500	i = 1:1	internal	110	70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





# Angle Unit, Offset Type

Compatible machines with **BLUECOMPETENCE** » mimatic mi » PolyMILL » TriMILL » TrioCut » PolyREAM

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




13

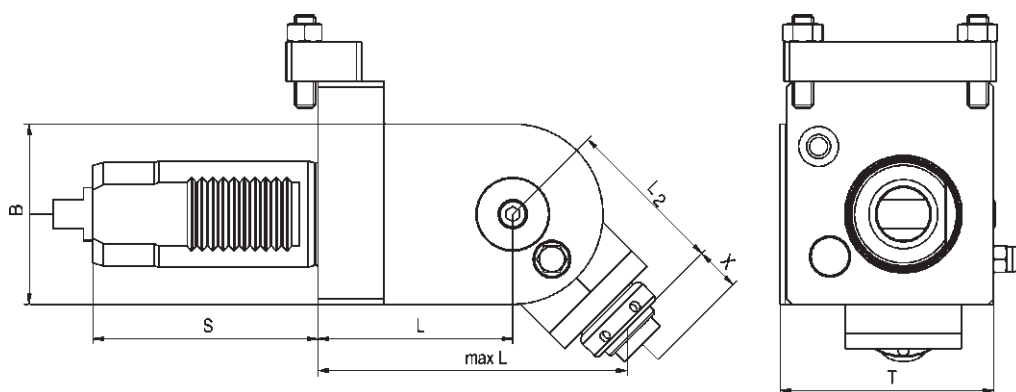
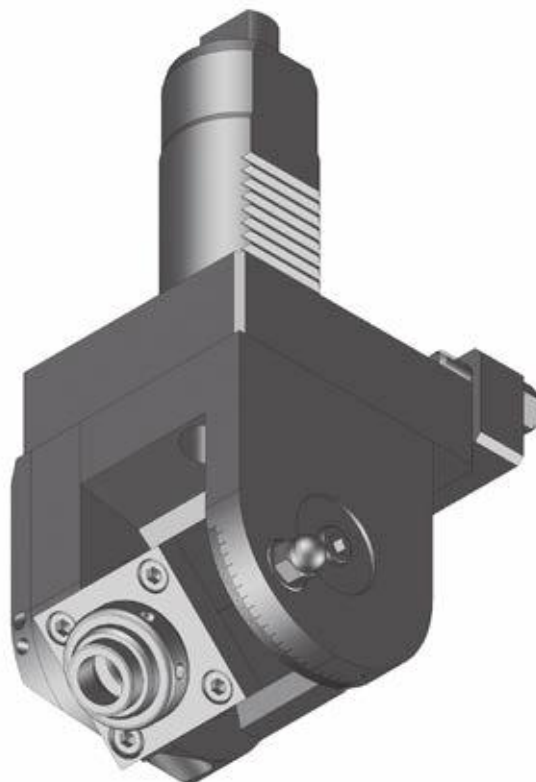
Order No.	Tool holder	Clamping range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	L mm	L1 mm	L2 mm	L3 mm	L4 mm	S mm	T mm	Rotating direction
124757	ER 32	1,0-20	80 Nm	6.000 / 6.000	i = 1:1	external	117	75	42	110,0	20	85	84	 
124897	ER 32*	1,0-20	80 Nm	6.000 / 6.000	i = 1:1	internal	117	75	42	110,0	20	85	84	 

\* With clamping nuts with sealing, seals see page 530

# Angle Unit, Adjustable 0-100°


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

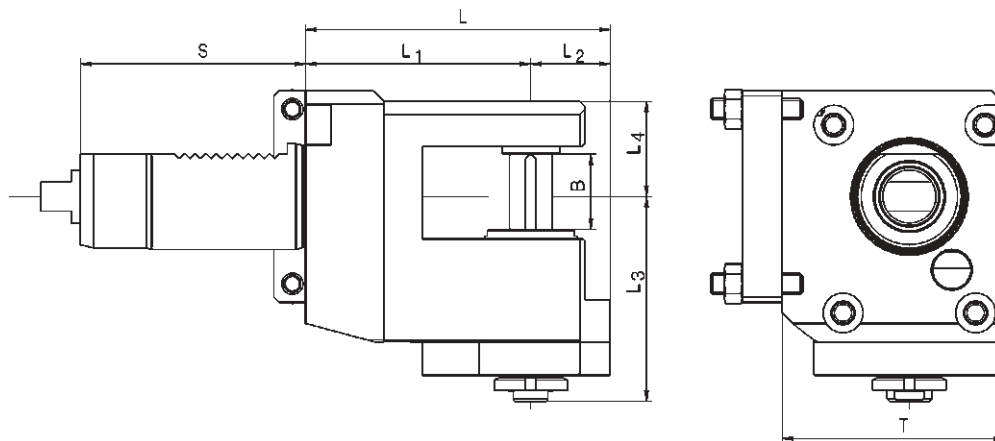
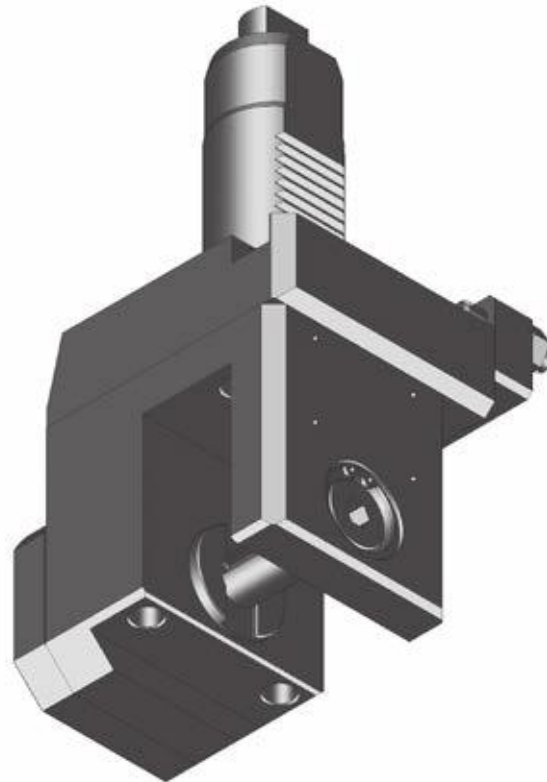
for Manufacturer	
	
for Machine type	
<b>VL 3/5</b> <b>VSC 200/250</b>	
Dimensions	
Turret type	Star-type Turret
Shank	VDI 40
Drive	Tang
SW	10,95 mm



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

## Saw Blade Holder

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



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

\* Saw blade diameter max. = 80 mm

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





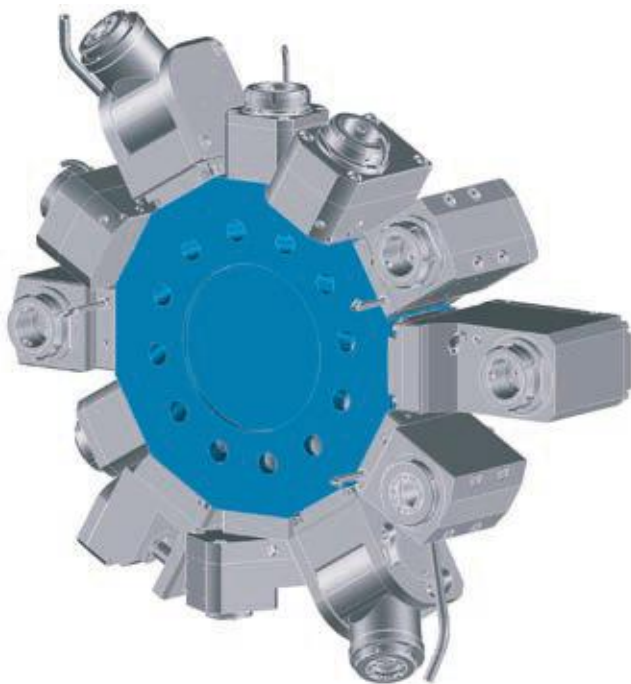
## VSC 315/400/500

### Data

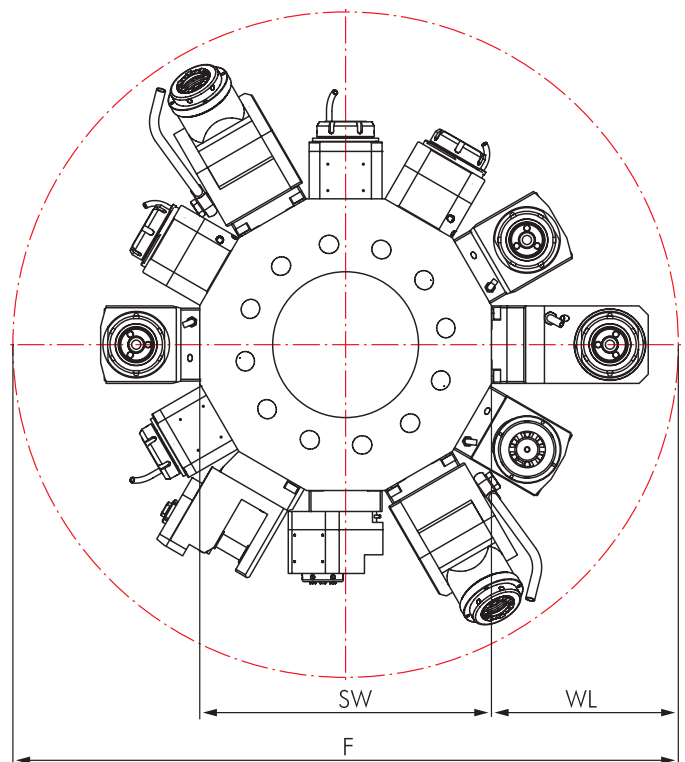
Machine type Series		Turret Stations
<b>VSC</b>	<b>315</b>	12
<b>VSC</b>	<b>400</b>	12
<b>VSC</b>	<b>500</b>	12



### Star-type Turret VDI 50



### Interference Circles



Machine type Series	F	SW	WL
<b>VSC 315</b>			
<b>VSC 400</b>	840	440	200
<b>VSC 500</b>	940	440	250



VSC 315/400/500

Connectible machines with  
**BLUECOMPETENCE**

» mimatic mi  
» PolyMILL » TriMILL » TrioCut » PolyREAM

## Live Tools

	Page		Page
<b>Straight Unit</b>	430		
		<b>Angle Unit, Offset Type</b>	432
			
<b>Angle Unit</b>	431		
		<b>Angle Unit, adjustable 0-90°</b>	433
			
		<b>Saw Blade Holder</b>	434
			

## Options and Accessories

<b>mi Toolholders</b>		mi System Description Toolholders Accessories	471 473-477 478-479
<b>Standard VDI Toolholders</b>		VDI Toolholders Accessories	518-524 525-531
<b>Accessories</b>		Collets DIN 6499 Threading Collets Wrenches Clamping Nuts Sleeves and Bushings	526-527 528-529 525 525 531



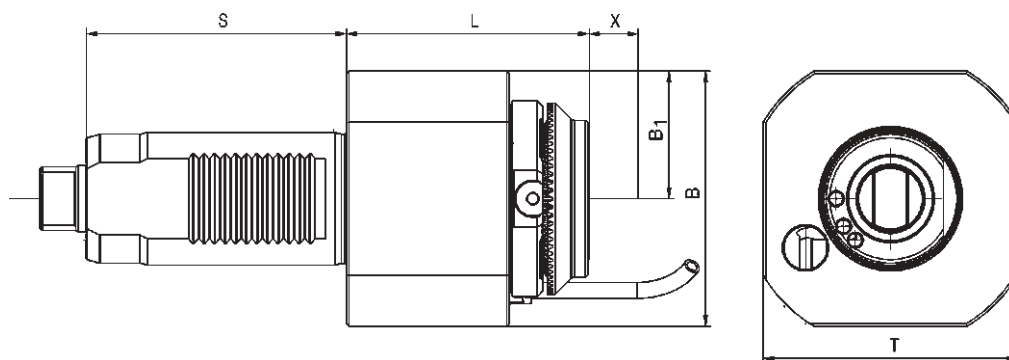
### Delivery information

Driven toolholders with mi quick-change interface are supplied with operating wrench (see spare parts on page 479).  
Driven toolholders with other interfaces are supplied without clamping wrench (see accessories on page 525).

## Straight Unit

Compatible machines with **BLUECOMPETENCE** » mimatic mi » PolyMILL » TriMILL » TrioCut » PolyREAM

for Manufacturer	
	
for Machine type	
<b>VSC 315/400/500</b>	
Dimensions	
Turret type	Star-type Turret
Shank	VDI 50
Drive	Tang
SW	12,95 mm
Modular Interfaces	
<b>mimaticMi</b> <b>HydroFLEX</b>	

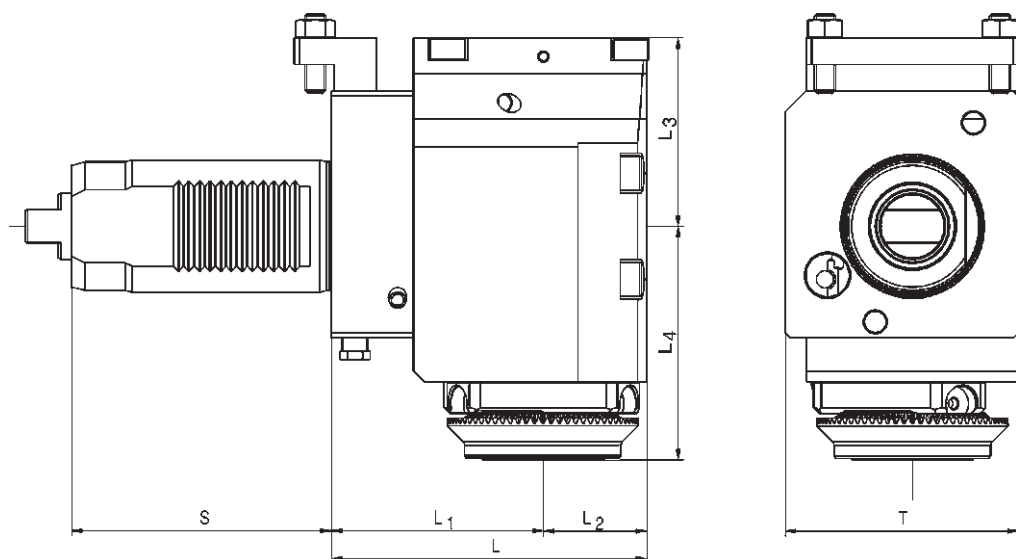
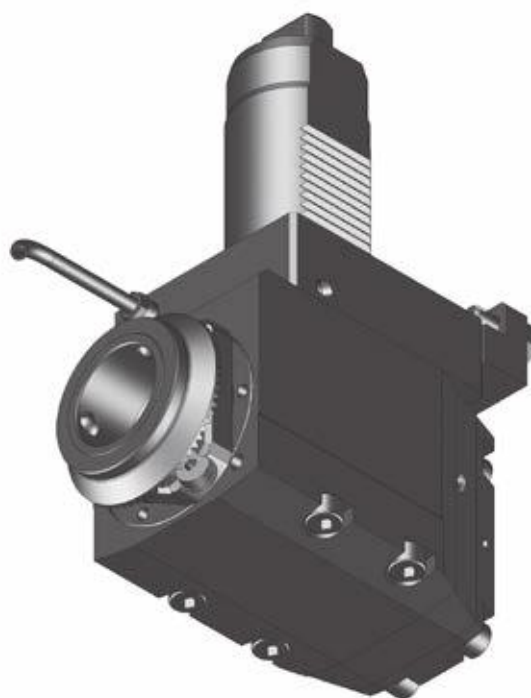


Order No.	Tool holder	Clamping range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	L mm	B mm	B1 mm	S mm	T mm	Rotating direction
123930	ER 32	1,0-20	80 Nm	6.000 / 6.000	i = 1:1	external	95,0	96	48	98	96	↺ ↻
124329	ER 32*	1,0-20	80 Nm	6.000 / 6.000	i = 1:1	internal	95,0	96	48	98	96	↺ ↻
124332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

# Angle Unit

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

for Manufacturer	
	
for Machine type	
<b>VSC 315/400/500</b>	
Dimensions	
Turret type	Star-type Turret
Shank	VDI 50
Drive	Tang
SW	12,95 mm
Modular Interfaces	
<b>mimaticMi</b> <b>HydroFLEX</b>	



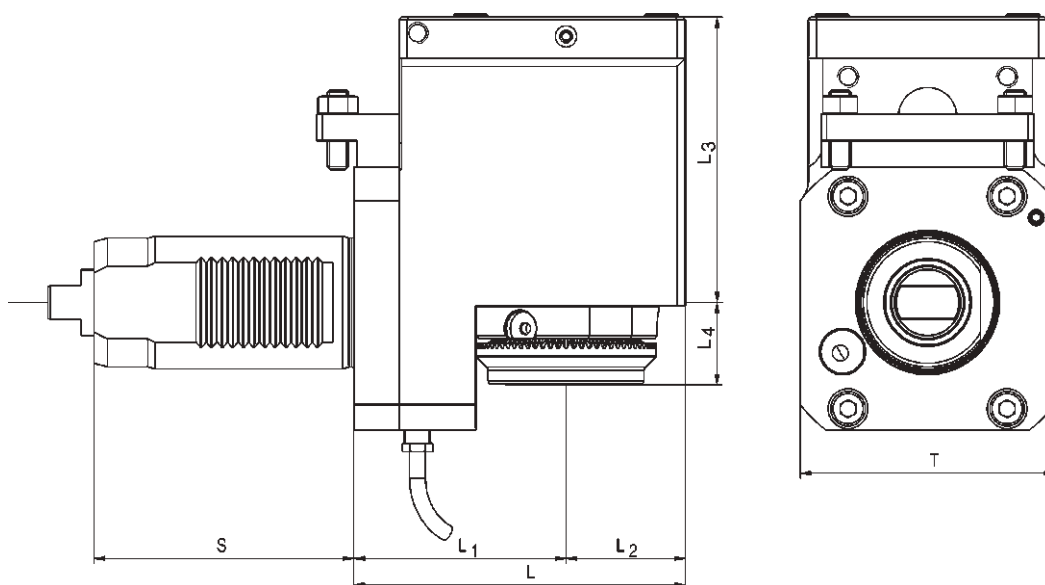
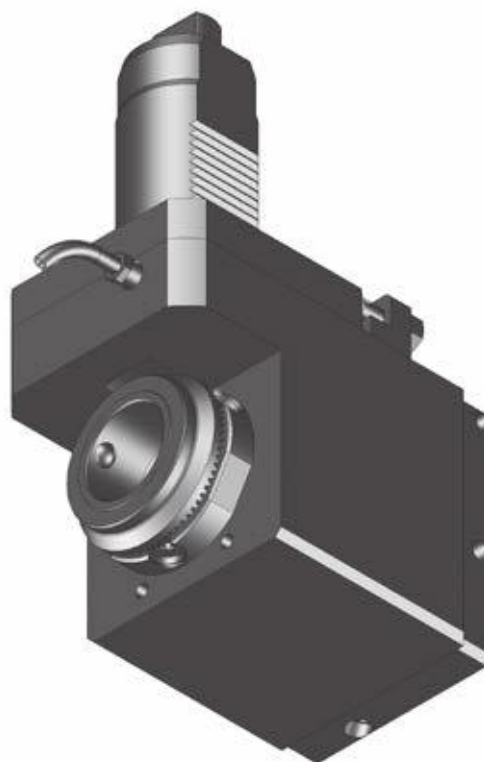
13



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
124668	ER 32	1,0-20	80 Nm	6.000 / 6.000	i = 1:1	external	119	80	39	69,0	70	98	88,0	↺ ↻
124900	ER 32*	1,0-20	80 Nm	5.200 / 5.200	i = 1:1	internal	119	80	39	75,5	70	98	88,0	↺ ↻
101551	mi 50	-	80 Nm	6.500 / 6.500	i = 1:1	internal	119	80	39	75,5	88	98	88,0	↺ ↻
124699	ER 25	0,5-16	25 Nm	5.000 / 10.000	i = 1:2	external	114	80	34	40,0	78	98	88,0	↺ ↻
124901	ER 40*	1,0-25	80 Nm	6.000 / 6.000	i = 1:1	internal	139	100	39	75,5	107	98	100,0	↺ ↻
124926	ER 25*	0,5-16	20 Nm	6.000 / 12.000	i = 1:2	internal	119	80	39	72,5	75	98	90,5	↺ ↻
124925	HF 20	6,0-20	20 Nm	6.000 / 12.000	i = 1:2	internal	119	80	39	72,5	92	98	90,5	↺ ↻

\* With clamping nuts with sealing, seals see page 530

## Angle Unit, Offset Type


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

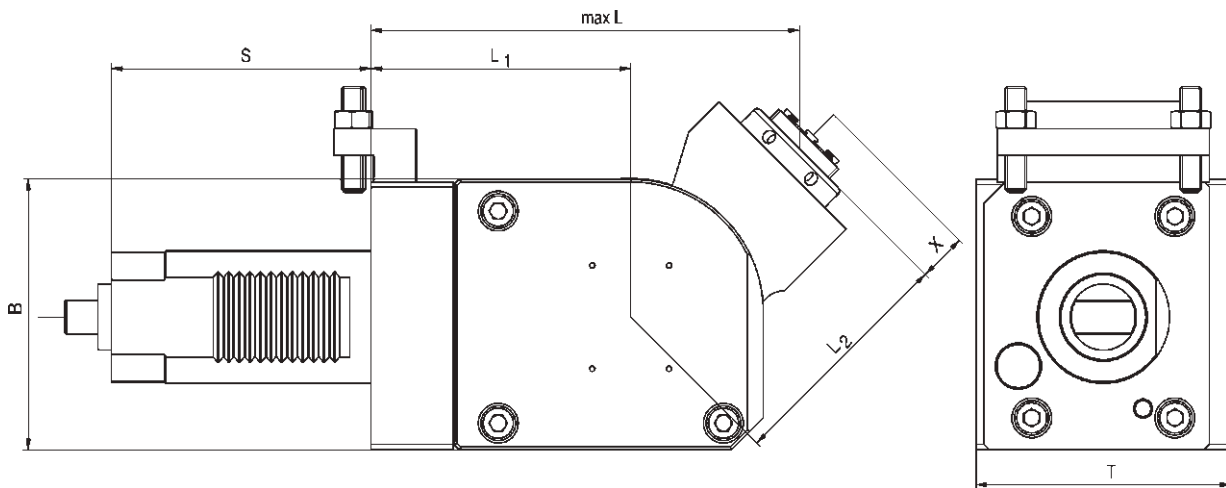
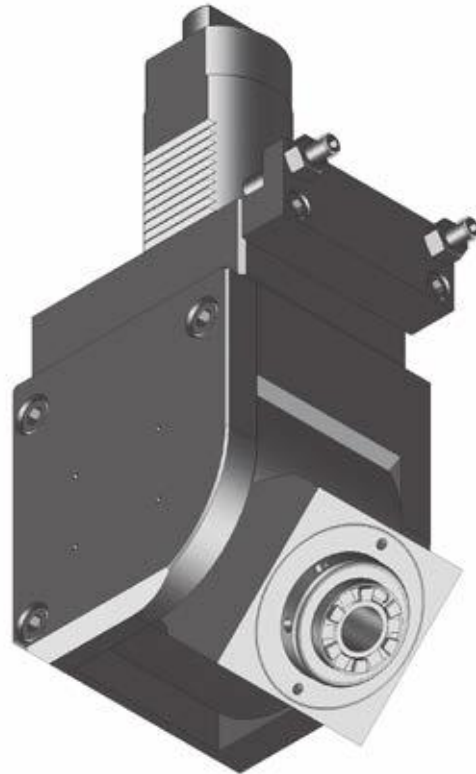


Order No.	Tool holder	Clamping range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	L mm	L1 mm	L2 mm	L3 mm	L4 mm	S mm	T mm	Rotating direction
124445	ER 32*	1,0-20	80 Nm	6.000 / 6.000	i = 1:1	internal	117	75	42	115,5	20	98	86	
124446	mi 50	-	100 Nm	4.000 / 4.000	i = 1:1	internal	125	80	45	107,5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

# Angle Unit, Adjustable 0-90°

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


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

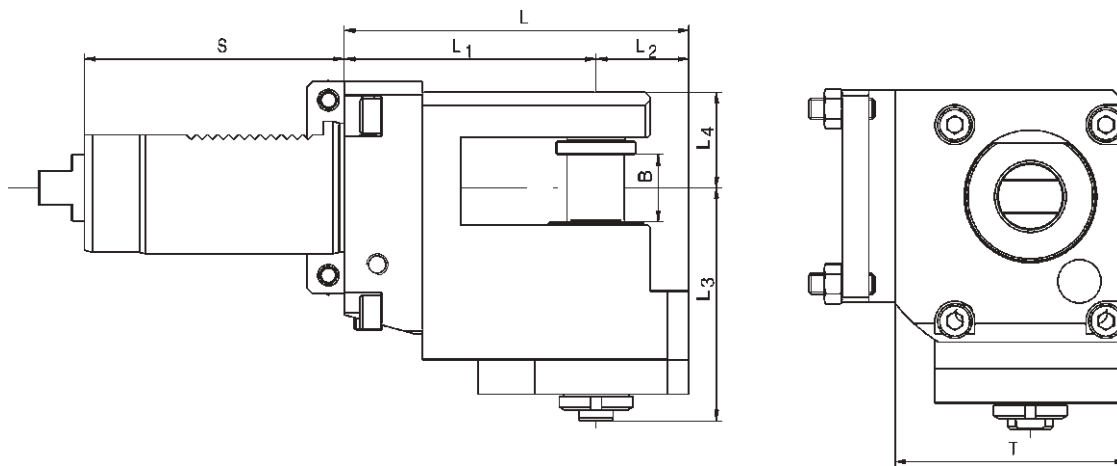
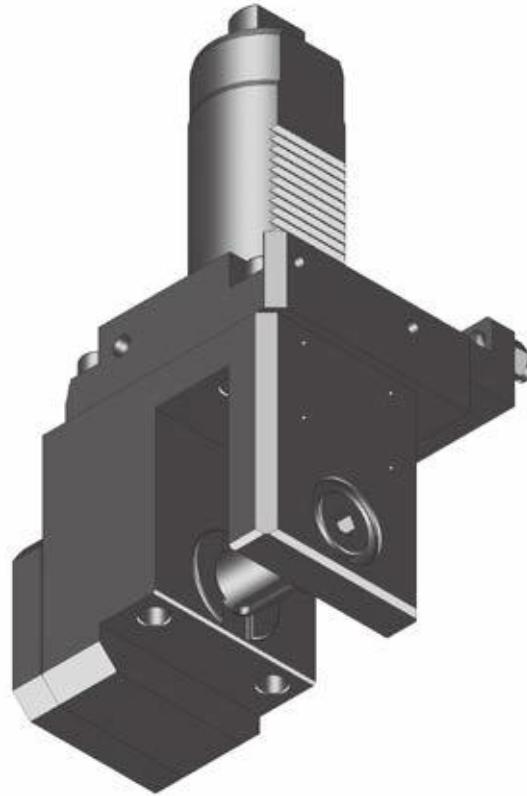


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Order No.	Tool holder	Clamping range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	L mm	L1 mm	L2 mm	B mm	S mm	T mm	Rotating direction
125038	ER 25	0,5-16	35 Nm	6.000 / 6.000	i = 1:1	external	178,0	88,0	90	102,0	98	93	↻ ↻
125058	ER 16	0,5-10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

# Saw Blade Holder

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



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







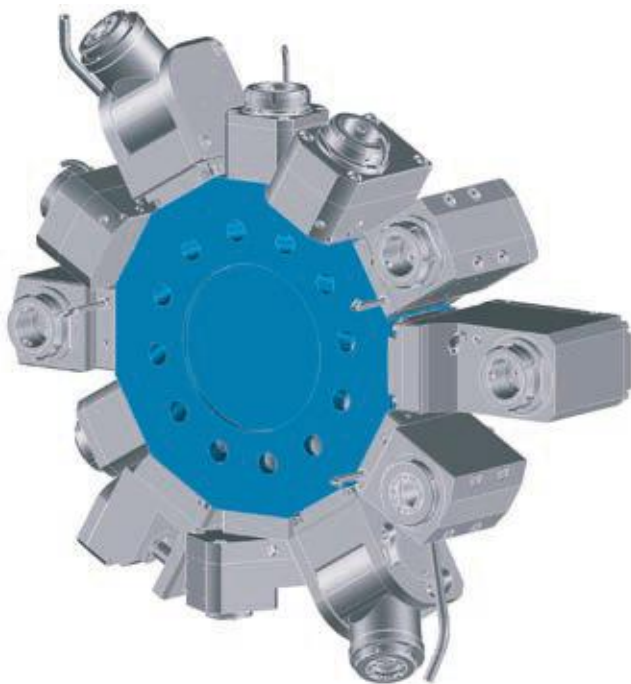
**VT 2 / VL 2 / VL 2P / VTC 100**

**Data**

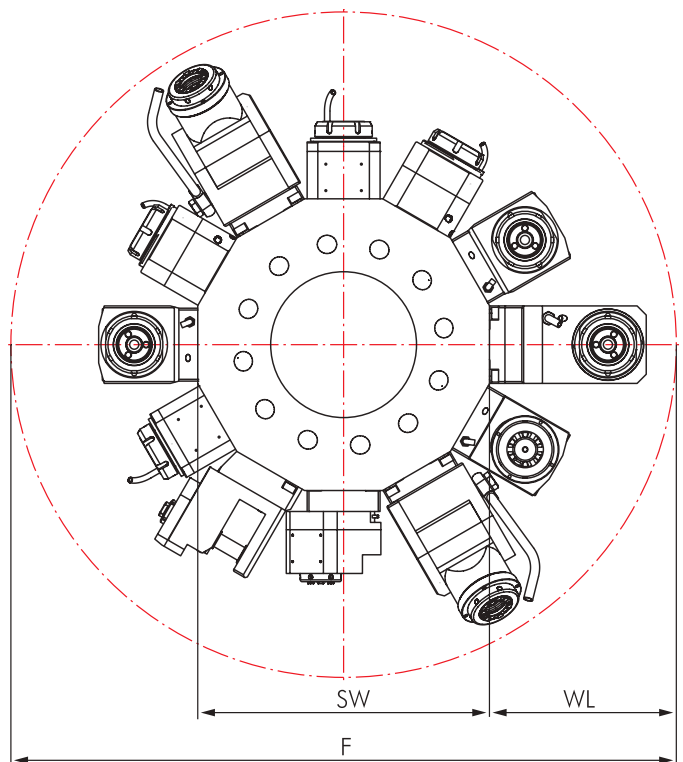
Machine type Series	Turret Stations
<b>VT 2</b>	12
<b>VL 2</b>	12
<b>VL 2P</b>	12
<b>VTC 100</b>	12



**Star-type Turret „BMT“**



**Interference Circles**





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



**VT 2 / VL 2 / VL 2P / VTC 100**

Compatible machines with **BLUECOMPETENCE** » mimatic mi » PolyMILL » TriMILL » TrioCut » PolyREAM

## Live Tools

	Page		Page
<b>Straight Unit</b>	438		
		<b>Angle Unit</b>	439
			

## Options and Accessories

Accessories		
		
		Collets DIN 6499 526-527
		Threading Collets 528-529
		Wrenches 525
		Clamping Nuts 525
		Sleeves and Bushings 531




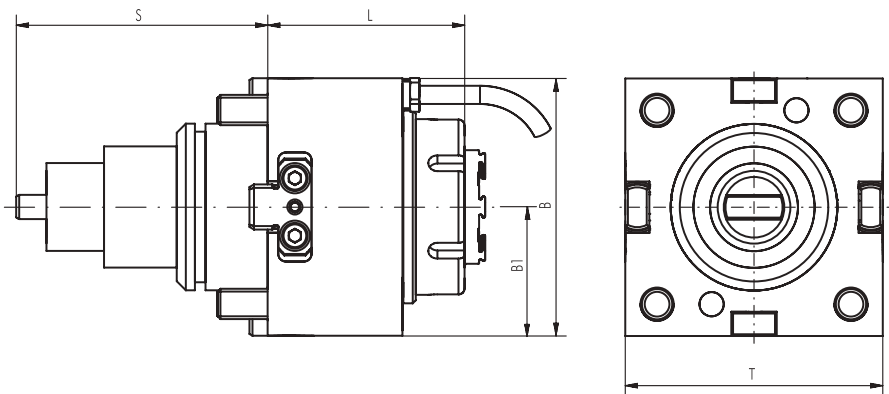
### Delivery information



Driven toolholders with mi quick-change interface are supplied with operating wrench (see spare parts on page 479).  
Driven toolholders with other interfaces are supplied without clamping wrench (see accessories on page 525).

# Straight Unit


Compatible machines with **BLUECOMPETENCE** » mimatic mi » PolyMILL » TriMILL » TrioCut » PolyREAM

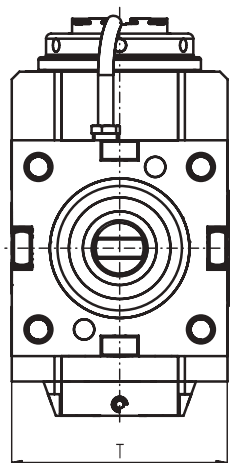
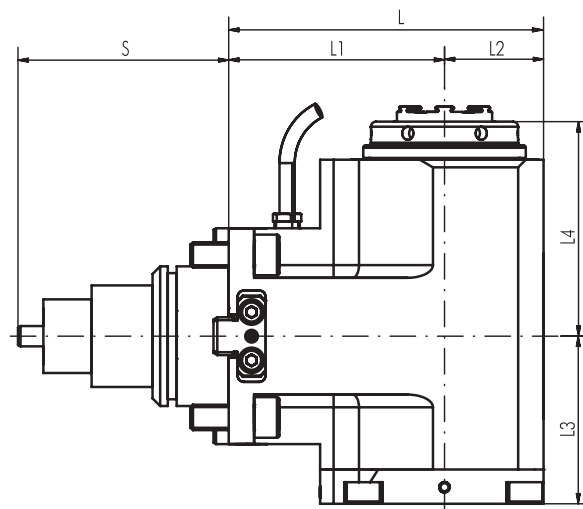
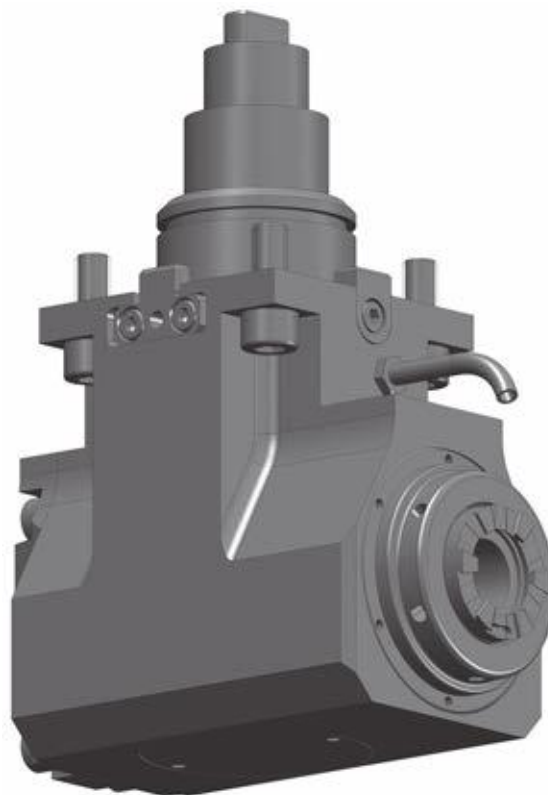
for Manufacturer	
	
for Machine type	
<b>VT 2 / VL 2 / VL 2P</b> <b>VTC 100</b>	
Dimensions	
Turret type	Star-type Turret
Shank	BMT Ø 55 mm
Drive	Tang
SW	8 mm



Order No.	Tool holder	Clamping range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	L mm	B mm	B1 mm	S mm	T mm	Rotating direction
180708	ER 32	1,0-20	70 Nm	6.500 / 6.500	i = 1:1	external	65	85	42,5	83	85	
180707	ER 32*	1,0-20	70 Nm	6.500 / 6.500	i = 1:1	internal	65	85	42,5	83	85	

# Angle Unit

for Manufacturer	
	
for Machine type	
<b>VT 2 / VL 2 / VL 2P</b> <b>VTC 100</b>	
Dimensions	
Turret type	Star-type Turret
Shank	BMT Ø 55 mm
Drive	Tang
SW	8 mm



Order No.	Tool holder	Clamping range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	L mm	L1 mm	L2 mm	L3 mm	L4 mm	S mm	T mm	Rotating direction
180656	ER 32	1,0-20	70 Nm	6.500 / 6.500	i = 1:1	external	124	85	39	66	84,5	83	85	↺ ↻
180655	ER 32*	1,0-20	70 Nm	6.500 / 6.500	i = 1:1	internal	124	85	39	66	84,5	83	85	↻ ↺

\* With clamping nuts with sealing, seals see page 530



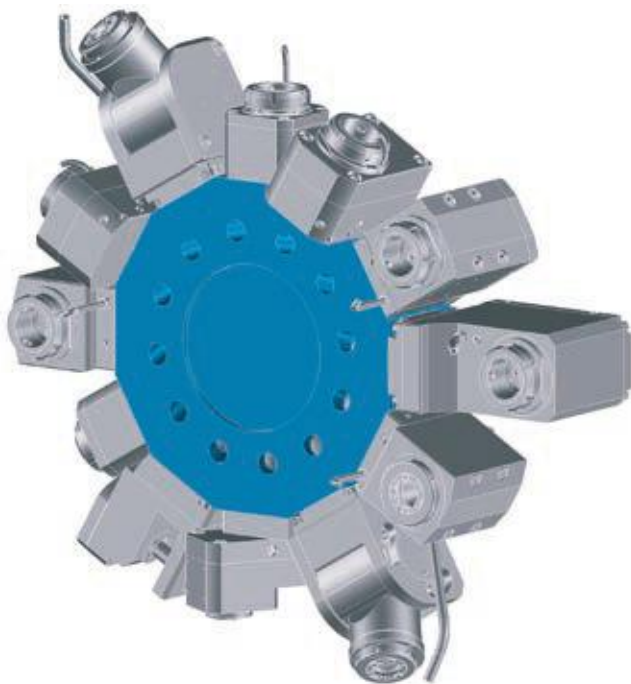
**VT 4 / VTC 200**

**Data**

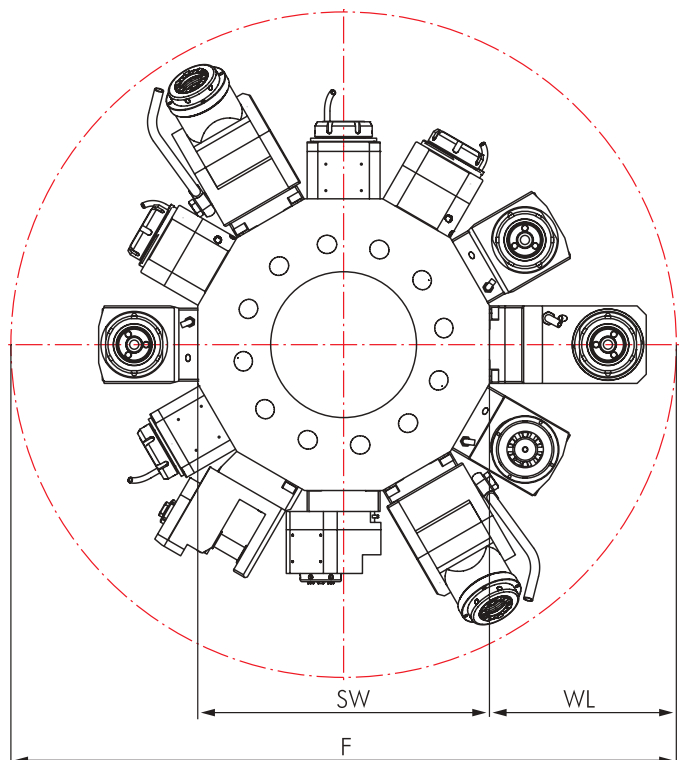
Machine type Series	Turret Stations
<b>VT 4</b>	12
<b>VTC 200</b>	12



**Star-type Turret „BMT“**



**Interference Circles**





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



**VT 4 / VTC 200**

Compatible machines with  
**BLUECOMPETENCE** » mimatic mi » PolyMILL » TriMILL » TrioCut » PolyREAM

## Live Tools

	Page		Page
<b>Straight Unit</b>	442		
		<b>Angle Unit</b>	443
			

## Options and Accessories

Accessories		
		
		Collets DIN 6499 526-527
		Threading Collets 528-529
		Wrenches 525
		Clamping Nuts 525
		Sleeves and Bushings 531




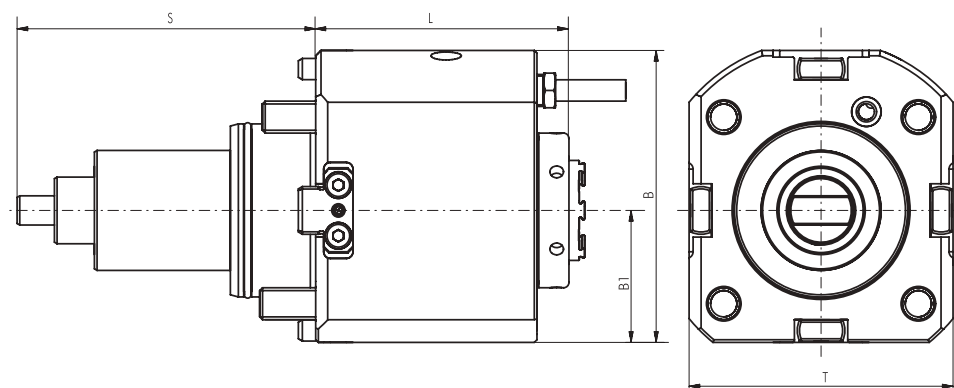
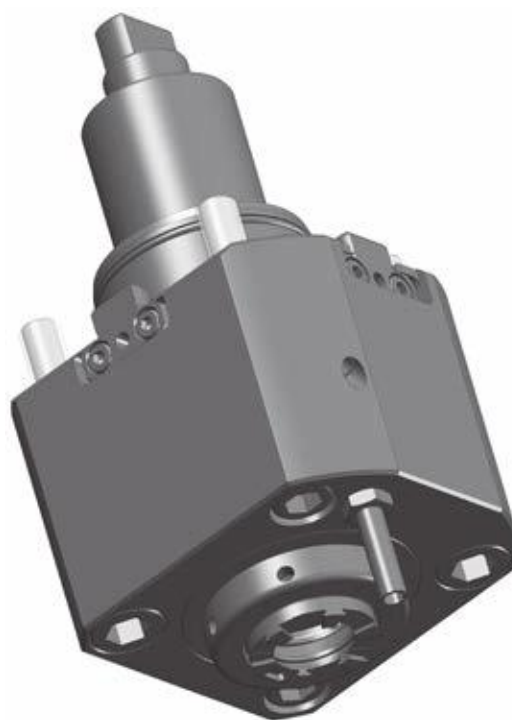
### Delivery information

Driven toolholders with mi quick-change interface are supplied with operating wrench (see spare parts on page 479).  
Driven toolholders with other interfaces are supplied without clamping wrench (see accessories on page 525).

# Straight Unit

Compatible machines with **BLUECOMPETENCE** » mimatic mi » PolyMILL » TriMILL » TrioCut » PolyREAM


for Manufacturer	
	
for Machine type	
<b>VT 4</b> <b>VTC 200</b>	
Dimensions	
Turret type	Star-type Turret
Shank	BMT Ø 65 mm
Drive	Tang
SW	10,95 mm

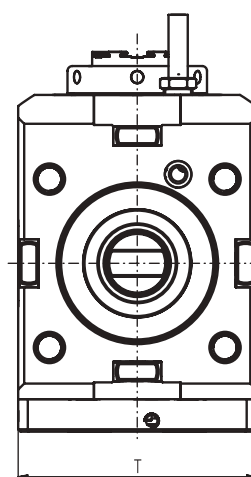
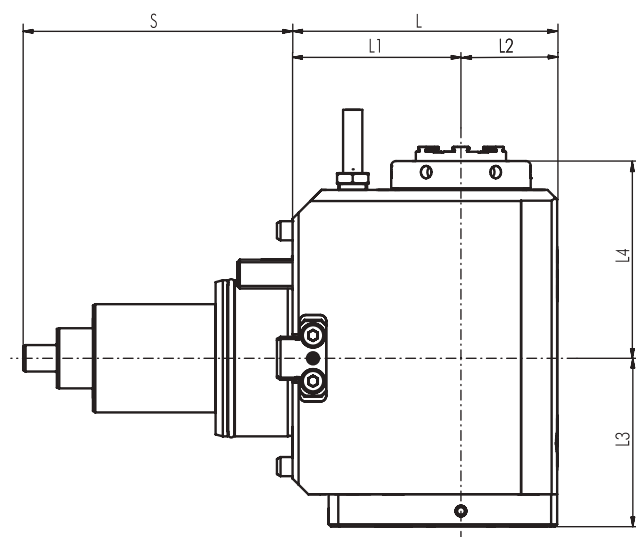


Order No.	Tool holder	Clamping range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	L mm	B mm	B1 mm	S mm	T mm	Rotating direction
181280	ER 32	1,0-20	70 Nm	6.500 / 6.500	i = 1:1	external	95	109,5	49,5	112	99	↻ ↻
176733	ER 32*	1,0-20	70 Nm	6.500 / 6.500	i = 1:1	internal	95	109,5	49,5	112	99	↻ ↻

# Angle Unit

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

for Manufacturer	
	
for Machine type	
<b>VT 4</b> <b>VTC 200</b>	
Dimensions	
Turret type	Star-type Turret
Shank	BMT Ø 65 mm
Drive	Tang
SW	10,95 mm



13

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
176505	ER 32	1,0-20	70 Nm	5.000 / 6.500	i = 1:1	external	110	70	40	70	82	110	99	↺ ↻
176726	ER 32*	1,0-20	70 Nm	5.000 / 6.500	i = 1:1	internal	110	70	40	70	82	110	99	↻ ↺

\* With clamping nuts with sealing, seals see page 530



**MORI SEIKI**  
THE MACHINE TOOL COMPANY

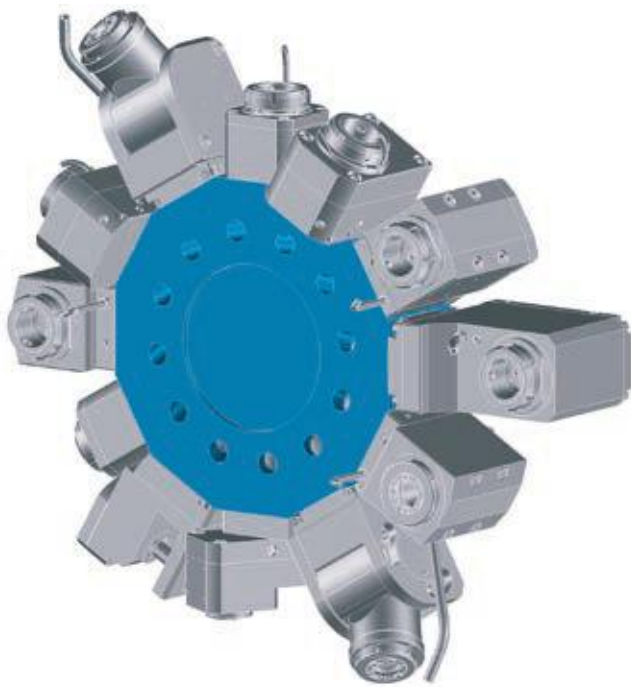
**NL 1500 / 2000 / 2500 / 3000**

**Data**

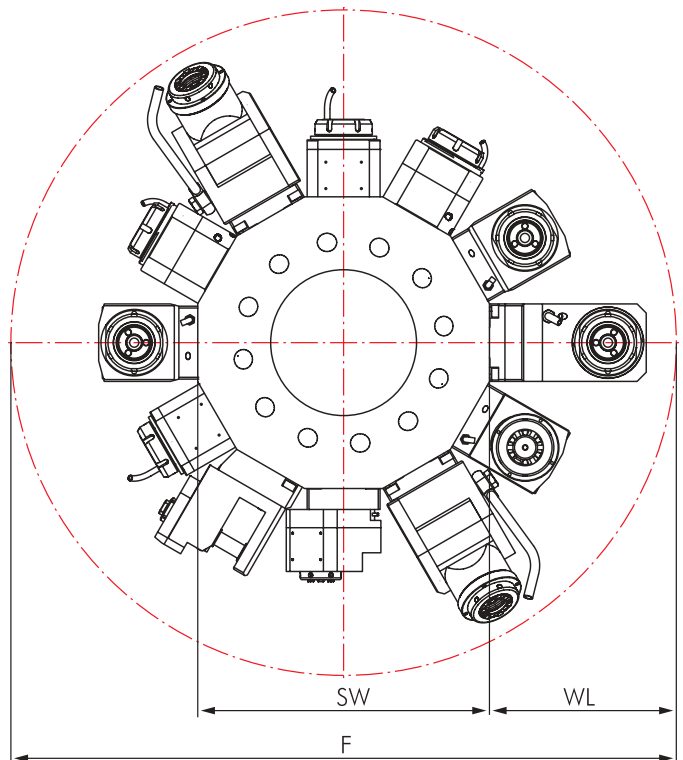
Machine type Series		Turret Stations
NL	1500	12
NL	2000	12
NL	2500	12
NL	3000	12



**Star-type Turret „BMT“**






**Interference Circles**



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

## Live Tools

	Page		Page		
<b>Straight Unit</b>		446	<b>Angle Unit, 2-Axis</b>		448
<b>Angle Unit</b>		447			

## Options and Accessories

<b>mi Toolholders</b>		mi System Description Toolholders Accessories	471 473-477 478-479
<b>Accessories</b>		Collets DIN 6499 Threading Collets Wrenches Clamping Nuts Sleeves and Bushings	526-527 528-529 525 525 531



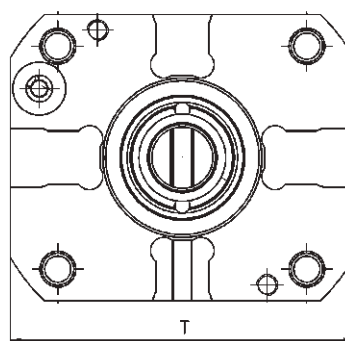
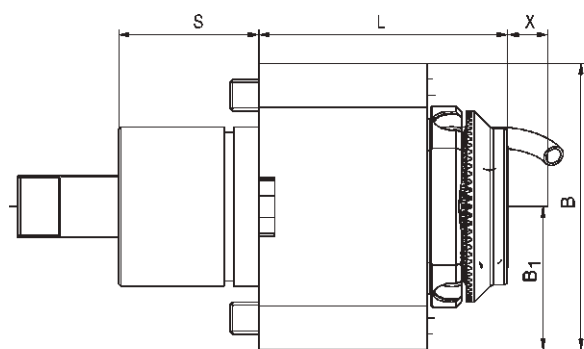
### Delivery information

Driven toolholders with mi quick-change interface are supplied with operating wrench (see spare parts on page 479).  
Driven toolholders with other interfaces are supplied without clamping wrench (see accessories on page 525).

# Straight Unit

Compatible machines with **BLUECOMPETENCE** » mimatic mi » PolyMILL » TriMILL » TrioCut » PolyREAM

for Manufacturer	
<b>MORI SEIKI</b> THE MACHINE TOOL COMPANY	
for Machine type	
<b>NL 1500 / 2000 / 2500 / 3000</b>	
Dimensions	
Turret type	Star-type Turret
Shank	BMT Ø 60 mm
Drive	Tang
SW	7.9 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	B mm	B1 mm	S mm	T mm	Rotating direction
100471	ER 40	2,5-30	70 Nm	6.500 / 6.500	i = 1:1	external	115	108	54	53	130	↺ ↻
124262	ER 40*	2,5-30	70 Nm	6.500 / 6.500	i = 1:1	internal	115	108	54	53	130	↻ ↺
124263	mi 50	-	70 Nm	6.500 / 6.500	i = 1:1	internal	94	108	54	53	130	↻ ↺

# Angle Unit

Compatible machines with **BLUECOMPETENCE** » mimatic mi » PolyMILL » TriMILL » TrioCut » PolyREAM

for Manufacturer

**MORI SEIKI**  
THE MACHINE TOOL COMPANY

for Machine type

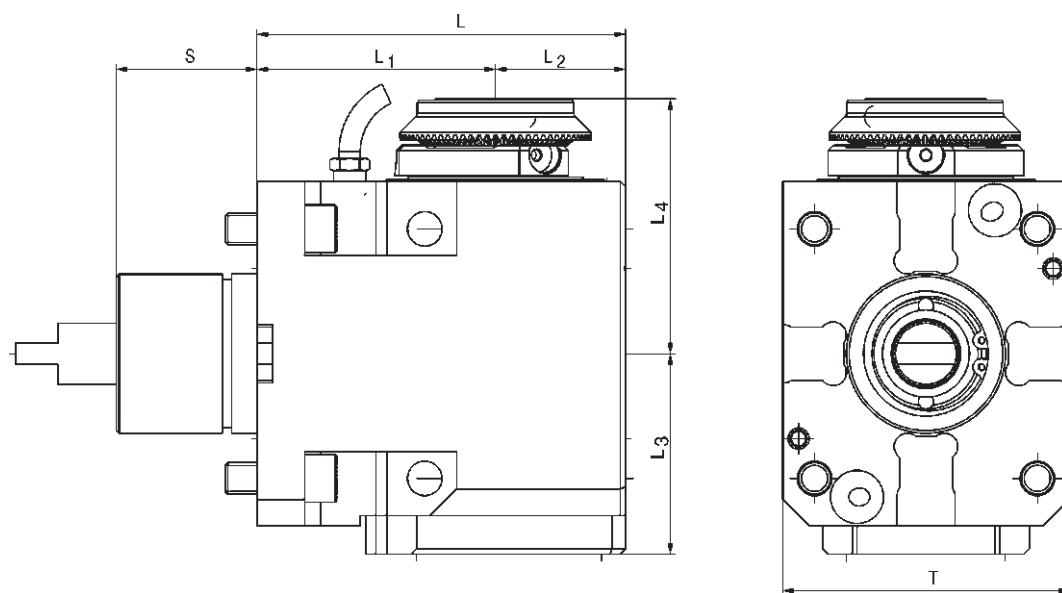
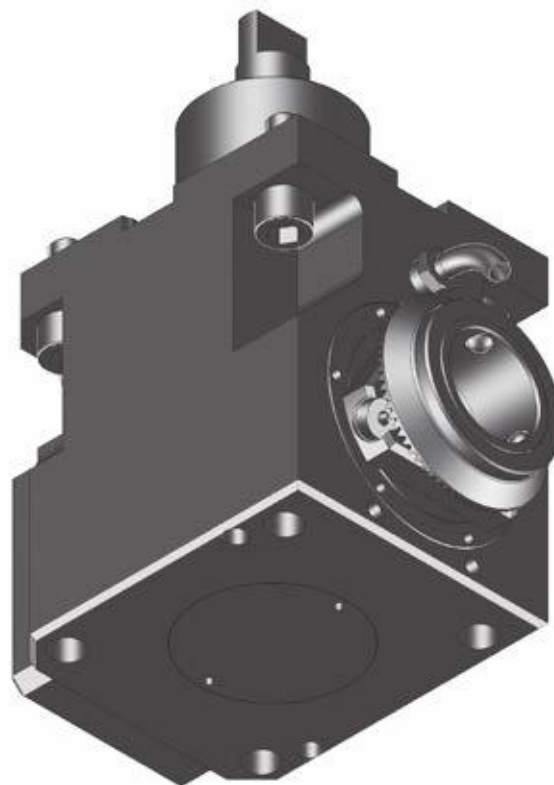
**NL 1500 / 2000 / 2500 / 3000**

Dimensions

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

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
101219	ER 40	2,5-30	70 Nm	6.500 / 6.500	i = 1:1	external	139	90	49	75,5	117	53	130	↺ ↻
124882	ER 40*	2,5-30	70 Nm	6.500 / 6.500	i = 1:1	internal	139	90	49	75,5	117	53	130	↻ ↺
124883	mi 50	-	70 Nm	6.500 / 6.500	i = 1:1	internal	139	90	49	75,5	96	53	130	↻ ↺

\* With clamping nuts with sealing, seals see page 530

# Angle Unit, 2-Axis

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

for Manufacturer

**MORI SEIKI**  
THE MACHINE TOOL COMPANY

for Machine type

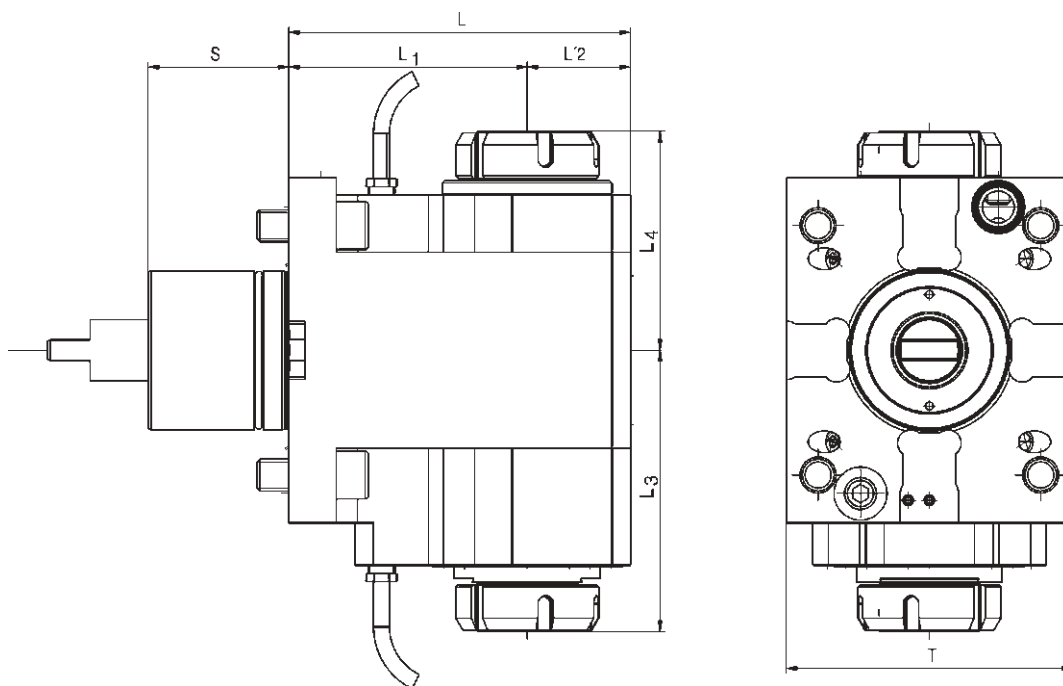
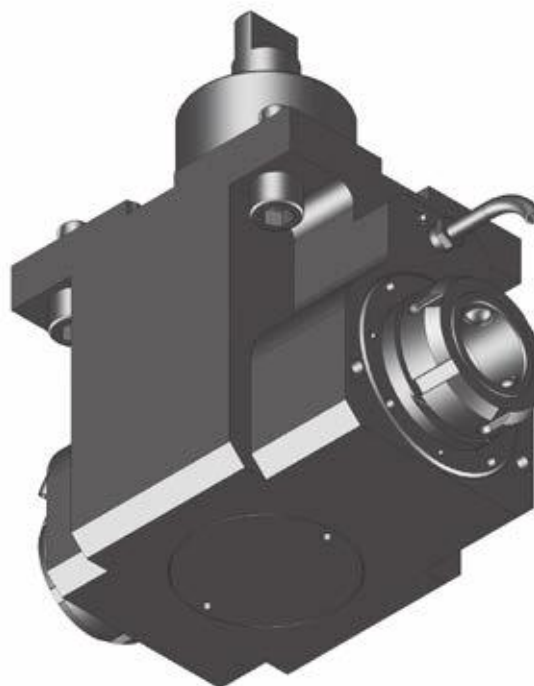
**NL 1500 / 2000 / 2500 / 3000**

Dimensions

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

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
101218	2x ER 32	1,0-20	70 Nm	6.500 / 6.500	i = 1:1	external	139	90	49	70	70,0	53	108
169193	2x mi 40	-	70 Nm	6.500 / 6.500	i = 1:1	internal	129	90	39	105	82,5	53	108

BLUECOMPETENCE

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Partner of the Engineering Industry  
Sustainability Initiative



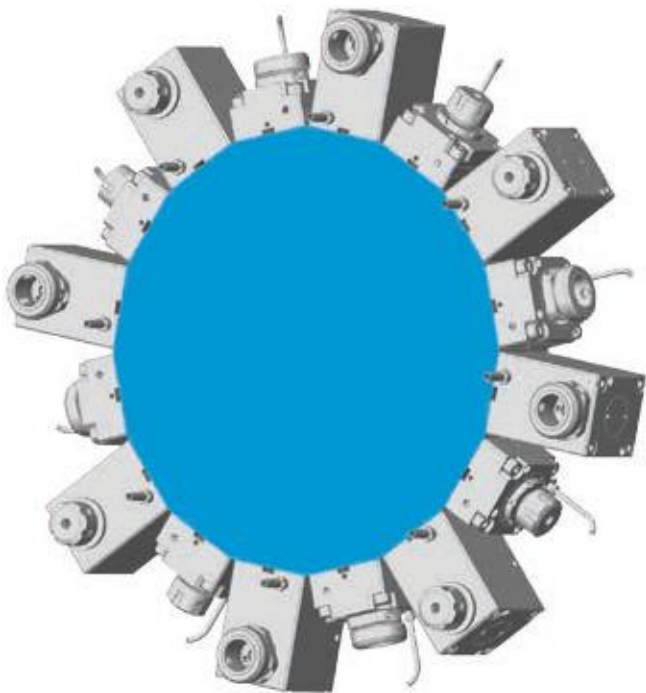
Picture shows a straight live tool VDI 40 with a mimatic capto C4 interface

**Data**

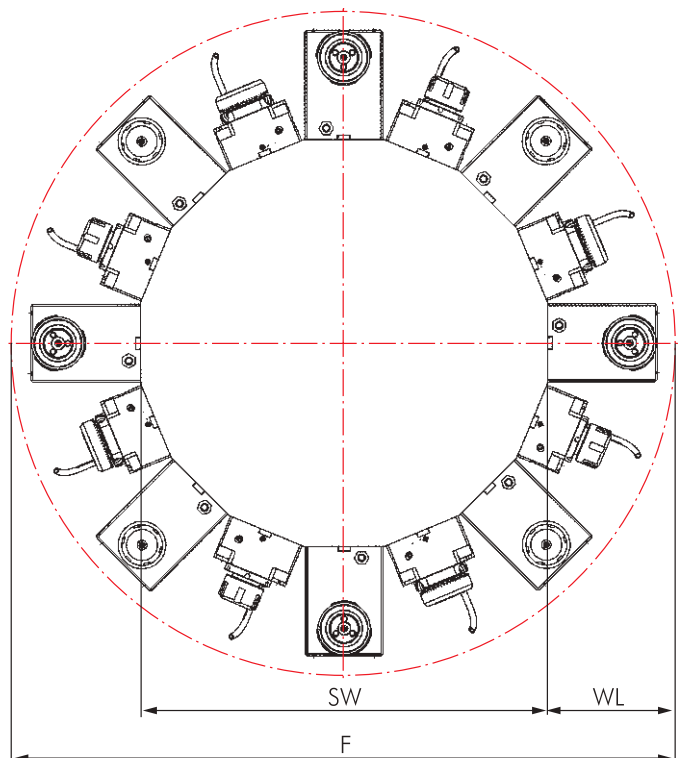
Machine Type Series		Turret Stations
<b>NZ</b>	<b>1500</b>	2x16
<b>NZ</b>	<b>2000</b>	2x16



**Star-Type Turret BMT**



**Interference Circles**



Machine Type Series	F	SW	WL
<b>NZ 1500</b>	670	420	125
<b>NZ 2000</b>	670	420	125

## Live Tools

	Page		Page
<b>Straight Unit</b>	452	<b>Angle Unit, 2-Axis</b>	454
<b>Angle Unit</b>	453	<b>Angle Unit, adjustable 0-90°</b>	455

## Options and Accessories

<b>mi Toolholders</b>		mi System Description Toolholders Accessories	471 473-477 478-479
<b>Accessories</b>		Collets DIN 6499 Threading Collets Wrenches Clamping Nuts Sleeves and Bushings	526-527 528-529 525 525 531



### Delivery information

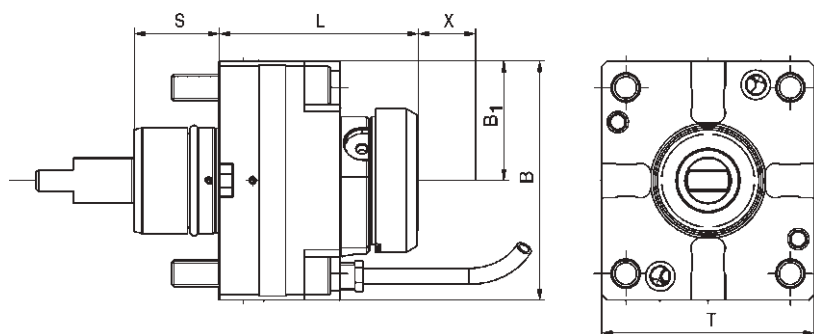
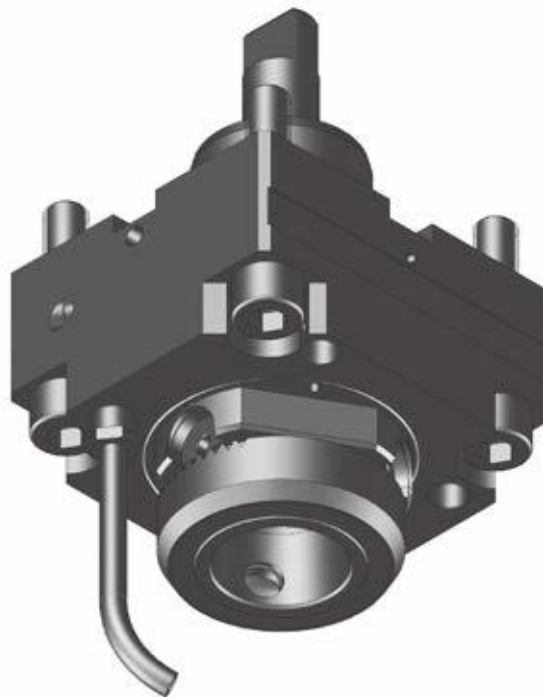
Driven toolholders with mi quick-change interface are supplied with operating wrench (see spare parts on page 479).  
Driven toolholders with other interfaces are supplied without clamping wrench (see accessories on page 525).



# Straight Unit

Compatible accessories with **BLUECOMPETENCE** » mimatic mi » PolyMILL » TriMILL » TrioCut » PolyREAM

for Manufacturer	
<b>MORI SEIKI</b> THE MACHINE TOOL COMPANY	
for Machine Type	
<b>NZ 1500 / 2000</b>	
Dimensions	
Turret Type	Star-Type Turret
Shank	BMT Ø 40 mm
Drive	Tang
SW	7.9 mm
Modular Interfaces	
<b>mimaticMi</b>	

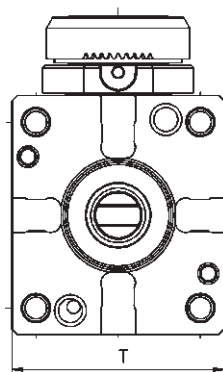
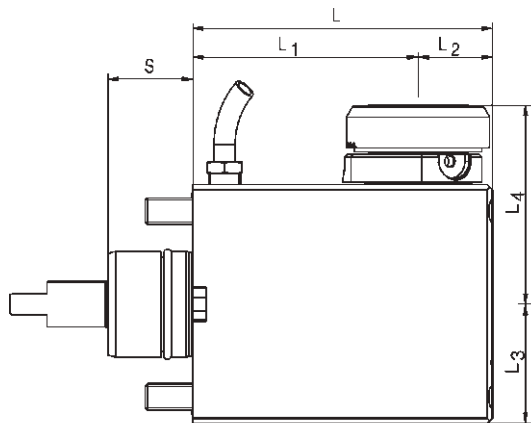
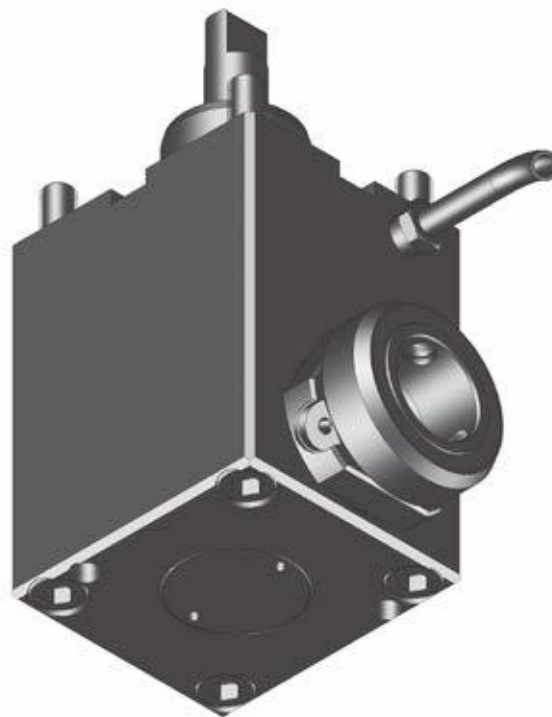


Order No.	Tool Holder	Clamping Range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	X mm	L mm	B mm	B1 mm	S mm	T mm	Rotating direction
173741	ER 25	0,5-16	50 Nm	6.500 / 6.500	i = 1:1	external	43,4	81,6	80	40	32	90	↺ ↻
173792	ER 25*	0,5-16	50 Nm	6.500 / 6.500	i = 1:1	internal	43,4	81,6	80	40	32	90	↻ ↺
174332	mi 40	-	50 Nm	6.500 / 6.500	i = 1:1	internal	50,0	75,0	80	40	32	90	↻ ↺

# Angle Unit

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

for Manufacturer	
<b>MORI SEIKI</b> THE MACHINE TOOL COMPANY	
for Machine Type	
<b>NZ 1500 / 2000</b>	
Dimensions	
Turret Type	Star-Type Turret
Shank	BMT Ø 40 mm
Drive	Tang
SW	7.9 mm
Modular Interfaces	
<b>mimaticMi</b>	

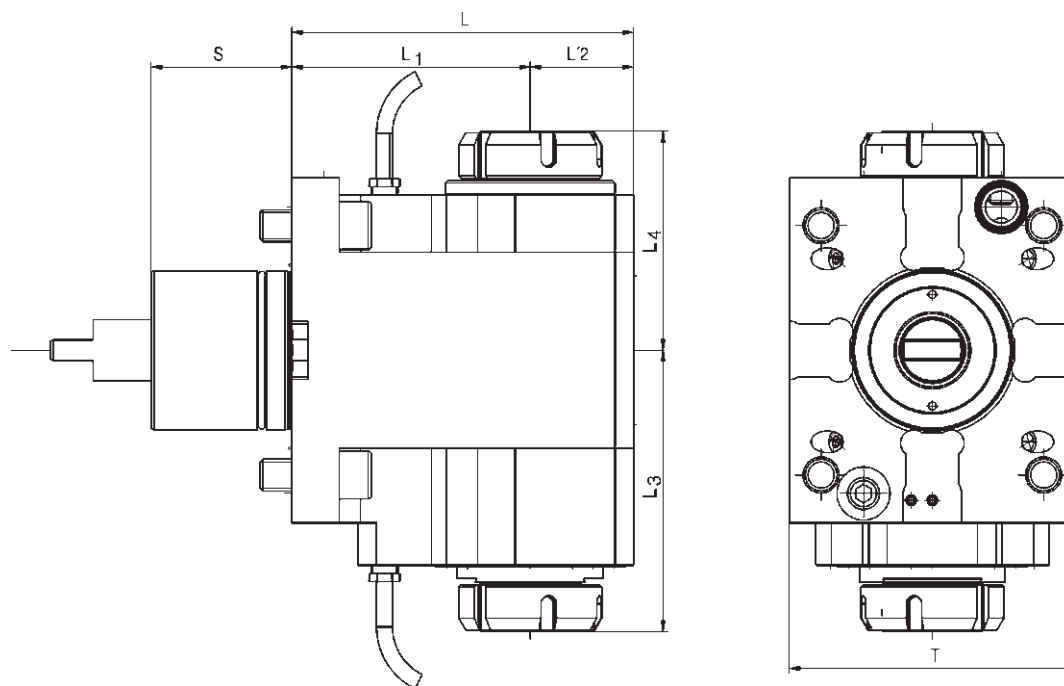
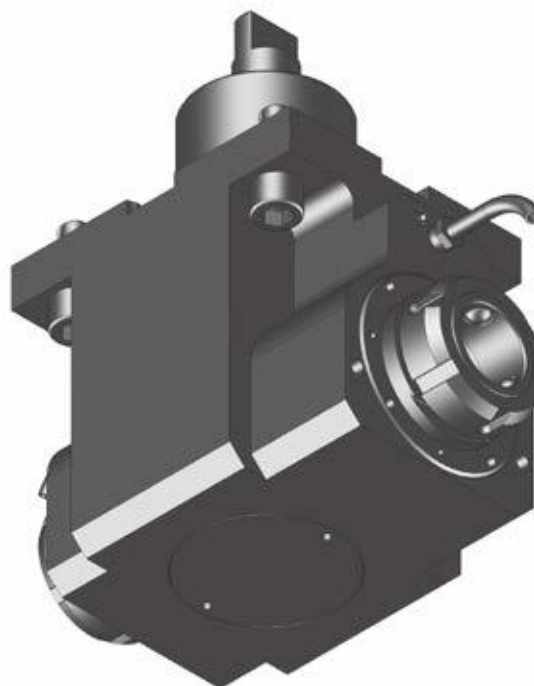


Order No.	Tool Holder	Clamping Range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	L mm	L1 mm	L2 mm	L3 mm	L4 mm	S mm	T mm	Rotating direction
176318	ER 16	0,5-10	20 Nm	6.500 / 13.000	i = 1:2	external	120	85	35	66	72,5	32	80	↺ ↻
173743	ER 25	0,5-16	25 Nm	6.500 / 6.500	i = 1:1	external	113	85	28	45	79,0	32	80	↺ ↻
174079	ER 25*	0,5-16	25 Nm	6.500 / 6.500	i = 1:1	internal	113	85	28	45	79,0	32	80	↺ ↻
174334	mi 40	-	25 Nm	6.500 / 6.500	i = 1:1	internal	113	85	28	45	75,0	32	80	↺ ↻

\* With clamping nuts with sealing, seals see page 530

## Angle Unit, 2-Axis

for Manufacturer	
<b>MORI SEIKI</b> THE MACHINE TOOL COMPANY	
for Machine Type	
<b>NZ 1500 / 2000</b>	
Dimensions	
Turret Type	Star-Type Turret
Shank	BMT Ø 40 mm
Drive	Tang
SW	7.9 mm

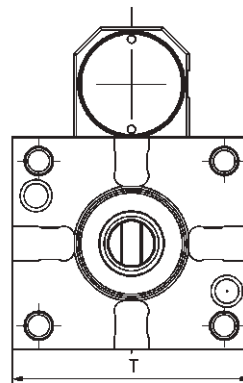
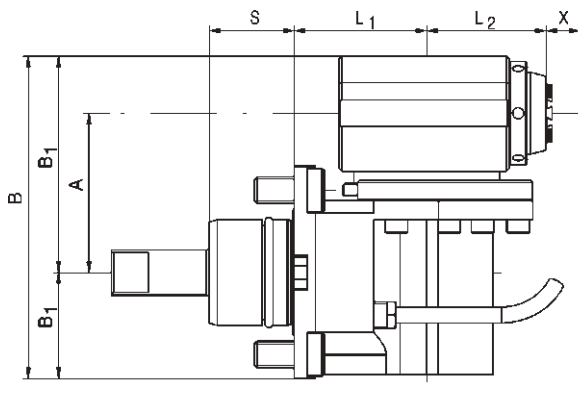
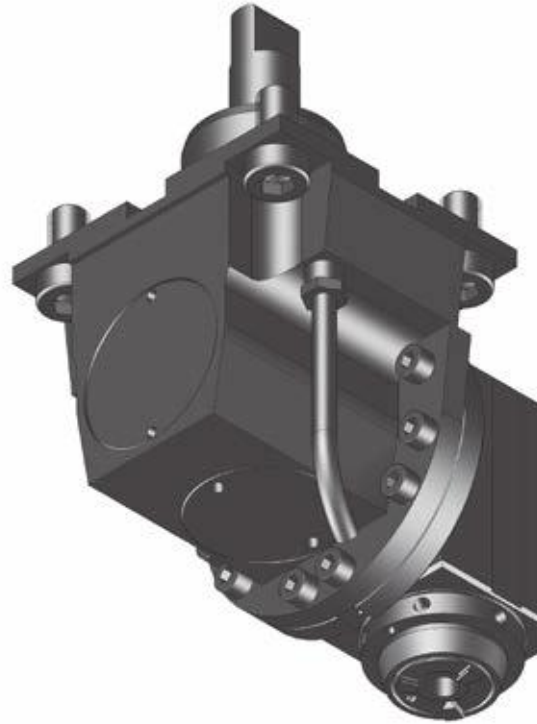


Order No.	Tool Holder	Clamping Range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	L mm	L1 mm	L2 mm	L3 mm	L4 mm	S mm	T mm
176317	ER 25	0,5-16	25 Nm	6.500 / 6.500	i = 1:1	external	120	85	35	58	58	32	80

# Angle Unit, Adjustable 0-90°

Compatible in accordance with **BLUECOMPETENCE** » PolyMILL » TriMILL » PolyREAM

for Manufacturer	
<b>MORI SEIKI</b> THE MACHINE TOOL COMPANY	
for Machine Type	
<b>NZ 1500 / 2000</b>	
Dimensions	
Turret Type	Star-Type Turret
Shank	BMT Ø 40 mm
Drive	Tang
SW	7.9 mm



13

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
176310	ER 16	0,5-10	15 Nm	8.000 / 8.000	i = 1:1	external	95	60	21,5	80	32	90	↻ ↺



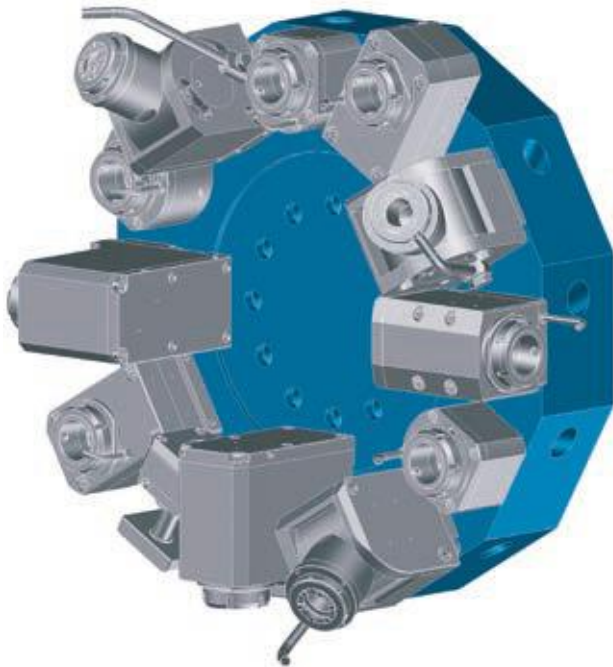
**ST 20/30**

## Data

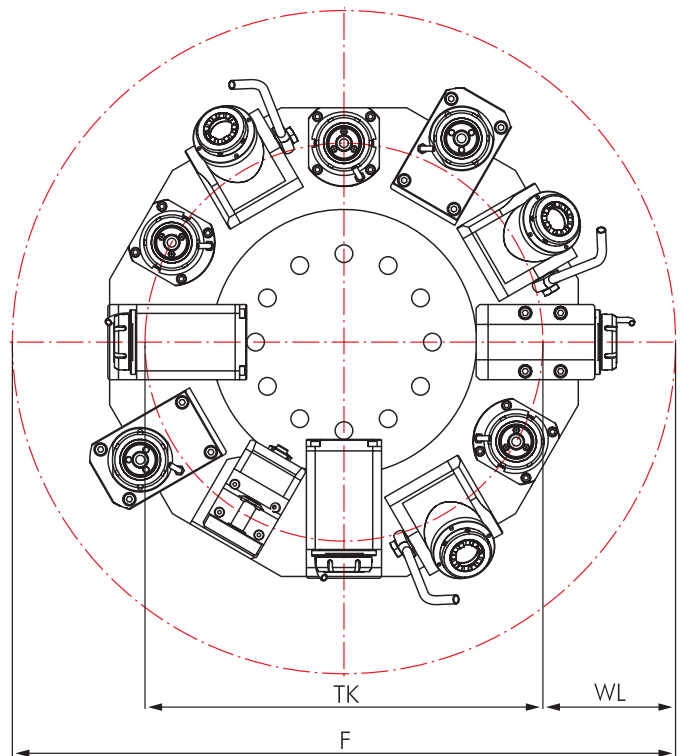
Machin type series		Turret Stations
ST	20	12
ST	30	12



## Star-type Turret VDI 40



## Interference Circles





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



**ST 20/30**

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

## Live Tools

	Page		Page
<b>Straight Unit</b>			458
<b>Angle Unit</b>			459

## Options and Accessories

<b>mi Toolholders</b>		mi System Description Toolholders Accessories	471 473-477 478-479
<b>Standard VDI Toolholders</b>		VDI Toolholders Accessories	518-524 525-531
<b>Accessories</b>		Collets DIN 6499 Threading Collets Wrenches Clamping Nuts Sleeves and Bushings	526-527 528-529 525 525 531





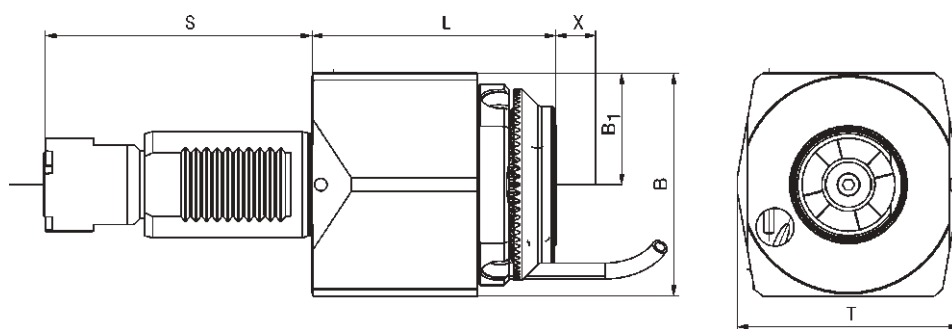
### Delivery information







Driven toolholders with mi quick-change interface are supplied with operating wrench (see spare parts on page 479).  
Driven toolholders with other interfaces are supplied without clamping wrench (see accessories on page 525).

# Straight Unit

Compatible machines with **BLUECOMPETENCE** » mimatic mi » PolyMILL » TriMILL » TrioCut » PolyREAM



for Manufacturer	
	
for Machine type	
<b>ST 20</b> <b>ST 30</b>	
Dimensions	
Turret type	Star-type Turret
Shank	VDI 40
Drive	Contrate Toothing
Please note the size "S"	
Modular Interfaces	
	

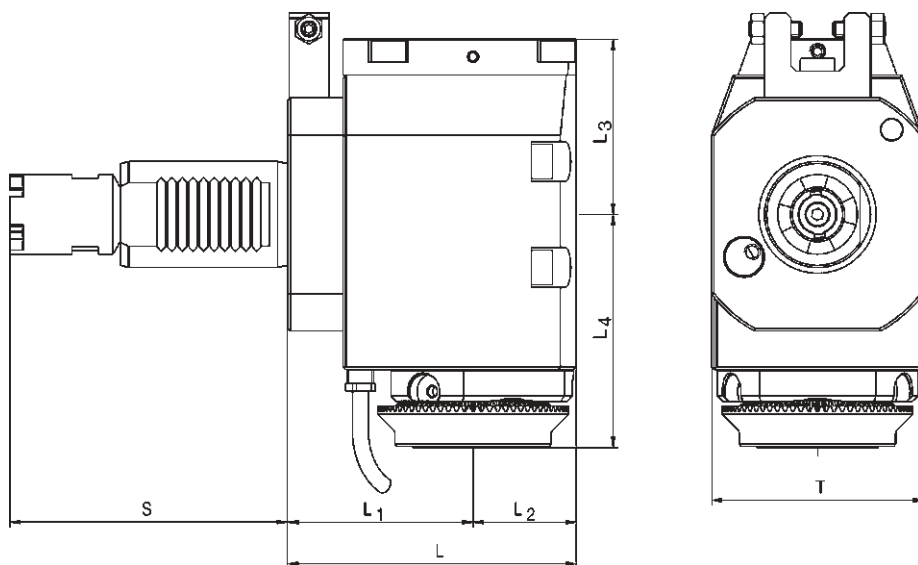


Order No.	Tool holder	Clamping range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	L mm	B mm	B1 mm	T mm	S mm	Rotating direction
100434	ER 32	1-20	80 Nm	-	i = 1:1	external	75,5	85	42	84	104,85	
169129	ER 32	1-20	80 Nm	-	i = 1:1	external	75,5	85	42	84	117,55	
124231	ER 32*	1-20	80 Nm	6.500 / 6.500	i = 1:1	internal	75,5	85	42	84	104,85	
124232	ER 32*	1-20	80 Nm	6.500 / 6.500	i = 1:1	internal	75,5	85	42	84	117,55	
100833	mi 50	-	80 Nm	6.500 / 6.500	i = 1:1	internal	92,0	85	42	84	104,85	
169595	mi 50	-	80 Nm	6.500 / 6.500	i = 1:1	internal	92,0	85	42	84	117,55	

# Angle Unit

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

for Manufacturer	
	
for Machine type	
<b>ST 20</b> <b>ST 30</b>	
Dimensions	
Turret type	Star-type Turret
Shank	VDI 40
Drive	Contrate Toothing
Please note the size "S"	
Modular Interfaces	
	



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

\* With clamping nuts with sealing, seals see page 530












**Form for Inquiry, Part 1**  
**Fax +49-831-57444-90**

Company	
Name	
Street	
Zip/City	
Phone	
Fax	
E-Mail	

**Specifications to the Machine**

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

									
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
DIN 1809 Diplomatic	Baruffaldi TOEM	DIN 5480 Sauter	DIN 5482 Sauter	OKUMA single level	OKUMA dual level	INDEX	Bevel gear	BIGLIA NAKAMURA	MORI SEIKI

**Specifications to the Operation**

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

**Specifications to the Tool**














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

**Form for Inquiry, Part 2**  
**Fax +49-831-57444-90**

**Specifications to the Tool**







Type

please notice your required number of pieces:

						
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Straight, central	Straight, Offset Type (A= mm)	Angle, central	Angle, Offset Type (A= mm)	Multi spindle unit Straight, central	Multi spindle unit Straight, Offset Type (A= mm)	
						
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Multi spindle unit angle, central	Multi spindle unit angle, Offset Type (A= mm)	Y-Unit adjustable	Angle Unit adjustable	Special angle fixed ( °)	Saw blade holder, straight	Saw blade holder, angle

Toolholder

please mark with a cross:

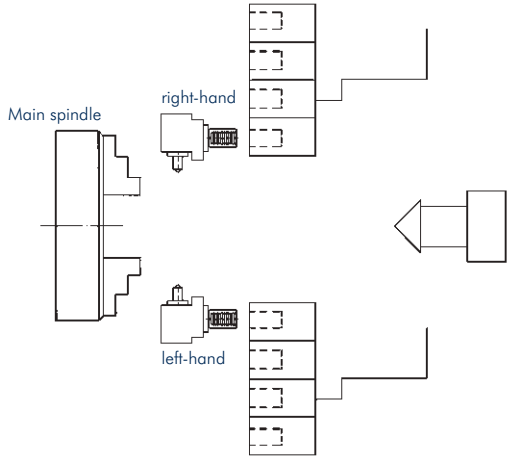
											
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
mi Quick change tool system	SYNAX Tapping quick change system	Hydro-Flex Hydraulic clamping system	Collet ER DIN 6499	Weldon/ Whistle- Notch	Komet ABS	Coromant CAPTO	Shell mill holders	KM / UTS	HSK	SK	Saw blade

Tool type

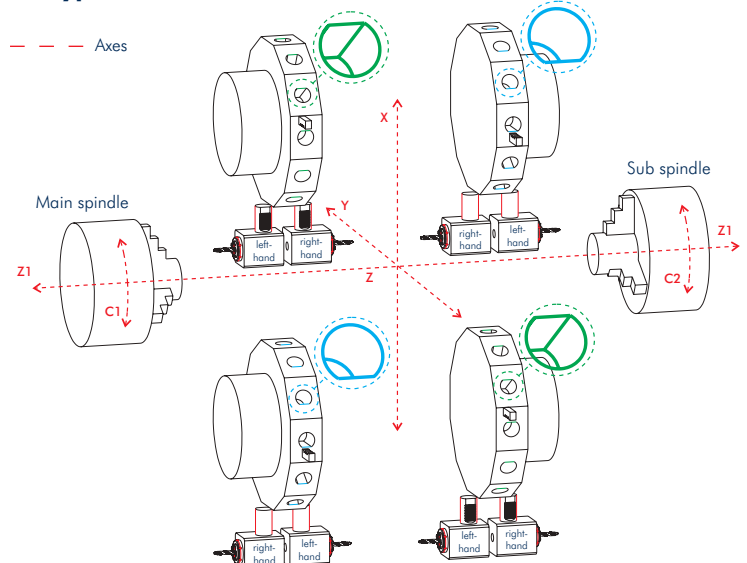
right

left

**Disc-type Turret**

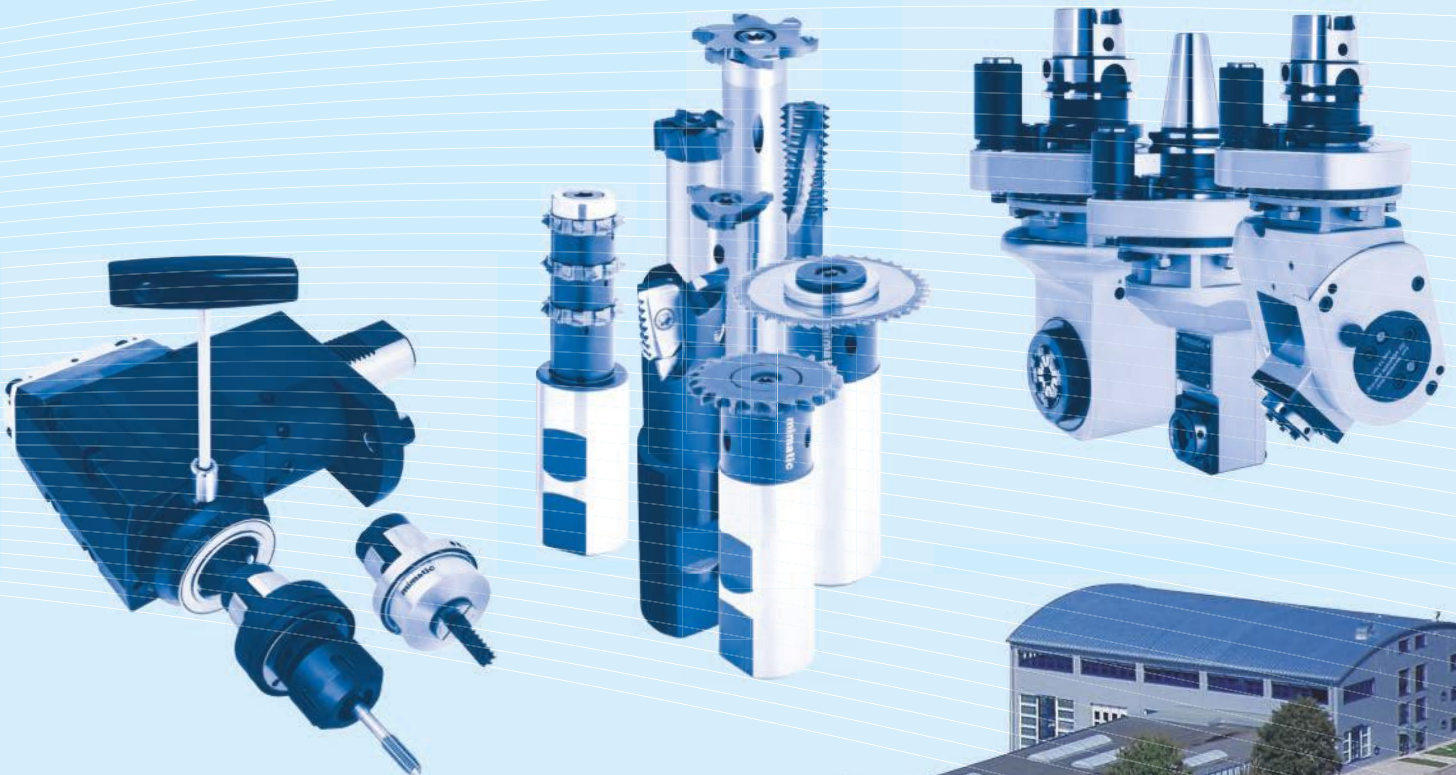


**Star-type Turret**



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