

Takisawa  
**TS 3000 SY/YSG**  
**T 12**



# High-tech from heimatec - heimatec - Tools and systems for productive turning and milling

heimatec belongs to the international technology and quality leaders for precision tools and specializes in the development and production of high-precision static and live tools for all CNC lathes, CNC turn-/mill machines and CNC machining centers.

The range of products\* spans from static BMT and VDI tool holders, live tools up to highly complex customer-specific individual solutions. heimatec, headquartered in Renchen, has a own subsidiary in Asia and India and numerous representatives as well as trading partners all over the world.

## \*OUR PRODCUTS

Static tool holders

Live tool units

Precision tools

Tools for turning and machining centres

Tools for swiss type lathes

Tool changing and uick-change systems



Tool systems for gear production




Digital tool management

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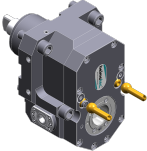
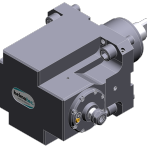
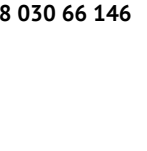
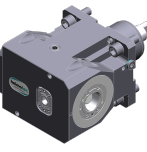
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Part-#	Name	
8 010 66 094	<b>Axial drilling and milling head ER 32 AX UT</b>	
		<p>Weight [kg]: 5.680            Tool drive: Flat (~DIN 1809)            Shank size [mm]: 60.00            Shank type: BMT            Tool adaption: ER 32 A - u-tec            Gear ratio [i]: 1:1            Torque max [Nm]: 100            Rotation max [1/min]: 10000            Rotating direction: same            Coolant: EXT            Please note: stronger bearing</p>
8 010 66 108	<b>Axial drilling and milling head ER 32 AX UT IC</b>	
		<p>Weight [kg]: 5.680            Tool drive: Flat (~DIN 1809)            Shank size [mm]: 60.00            Shank type: BMT            Tool adaption: ER 32 A - u-tec            Gear ratio [i]: 1:1            Torque max [Nm]: 100            Rotation max [1/min]: 6000            Rotating direction: same            Coolant: IC/Ext            Pressure max [bar]: 25            Please note: stronger bearing</p>
8 010 66 139	<b>Axial drilling and milling head ER 32 AX UT IC</b>	
		<p>Weight [kg]: 5.740            Tool drive: Flat (~DIN 1809)            Shank size [mm]: 60.00            Shank type: BMT            Tool adaption: ER 32 A - u-tec            Gear ratio [i]: 1:1            Torque max [Nm]: 100            Rotation max [1/min]: 10000            Rotating direction: same            Coolant: IC            Pressure max [bar]: 100            Please note: Dryrun possible</p>
8 010 66 146	<b>Axial drilling and milling head C 4 IC</b>	
		<p>Tool drive: Flat (~DIN 1809)            Shank size [mm]: 60.00            Shank type: BMT            Tool adaption: heimatec Capto(TM) C 4            Gear ratio [i]: 1:1            Torque max [Nm]: 80            Rotation max [1/min]: 6000            Rotating direction: same            Coolant: IC/Ext            Pressure max [bar]: 100            Please note: Check applicability; note tool length!;</p>

Part-#	Name	
<b>8 010 67 117</b>	<b>Axial drilling and milling head ER 40 AX UT</b>	
		<p>Weight [kg]: 6.180            Tool drive: Flat (~DIN 1809)            Shank size [mm]: 60.00            Shank type: BMT            Tool adaption: ER 40 u-tec            Gear ratio [i]: 1:1            Torque max [Nm]: 100            Rotation max [1/min]: 10000            Rotating direction: same            Coolant: EXT            Please note: stronger bearing</p>
<b>8 010 67 118</b>	<b>Axial drilling and milling head ER 40 AX UT IC</b>	
		<p>Tool drive: Flat (~DIN 1809)            Shank size [mm]: 60.00            Shank type: BMT            Tool adaption: ER 40 A - u-tec            Gear ratio [i]: 1:1            Torque max [Nm]: 100            Rotation max [1/min]: 6000            Rotating direction: same            Coolant: IC/Ext            Pressure max [bar]: 25            Please note: stronger bearing</p>
<b>8 010 67 137</b>	<b>Axial drilling and milling head ER 40 AX UT IC</b>	
		<p>Weight [kg]: 5.800            Tool drive: Flat (~DIN 1809)            Shank size [mm]: 60.00            Shank type: BMT            Tool adaption: ER 40 A - u-tec            Gear ratio [i]: 1:1            Torque max [Nm]: 100            Rotation max [1/min]: 10000            Rotating direction: same            Coolant: IC            Pressure max [bar]: 100            Please note: Trochenlauf possible</p>
<b>8 013 63 000</b>	<b>Axial drilling and milling head ER 11</b>	
		<p>Weight [kg]: 4.760            Tool drive: Flat (~DIN 1809)            Shank size [mm]: 60.00            Shank type: BMT            Tool adaption: ER 11            Gear ratio [i]: 1:4            Torque max [Nm]: 5            Rotation max [1/min]: 48000            Rotating direction: same            Coolant: EXT</p>

Part-#	Name	
<b>8 013 64 003</b>	<b>Axial drilling and milling head ER 16 AX UT</b>	
	Weight [kg]:	4.840
	Tool drive:	Flat (~DIN 1809)
	Shank size [mm]:	60.00
	Shank type:	BMT
	Tool adaption:	ER 16 A - u-tec
	Gear ratio [i]:	1:4
	Torque max [Nm]:	5
	Rotation max [1/min]:	24000
	Rotating direction:	same
	Coolant:	EXT
<b>8 013 64 016</b>	<b>Axial drilling and milling head ER 16 AX UT IC</b>	
	Tool drive:	Flat (~DIN 1809)
	Shank size [mm]:	60.00
	Shank type:	BMT
	Tool adaption:	ER 16 A - u-tec
	Gear ratio [i]:	1:4
	Torque max [Nm]:	5
	Rotation max [1/min]:	24000
	Rotating direction:	same
	Coolant:	IC/Ext
	Pressure max [bar]:	100
	Please note:	Dryrun possible
<b>8 019 64 051</b>	<b>Axial drilling and milling head ER 20 AX UT</b>	
	Weight [kg]:	18.420
	Tool drive:	Flat (~DIN 1809)
	Shank size [mm]:	60.00
	Shank type:	BMT
	Tool adaption:	ER 20 A - u-tec
	Gear ratio [i]:	1:1
	Torque max [Nm]:	25
	Rotation max [1/min]:	10000
	Rotating direction:	same
	Coolant:	EXT
	Please note:	stronger bearing, check applicability
	Offset [mm]:	222,5
<b>8 019 66 002</b>	<b>Axial drilling and milling head ER 32 AS UT IC</b>	
	Weight [kg]:	11.190
	Notation:	offset; 180° reversible
	Tool drive:	Flat (~DIN 1809)
	Shank size [mm]:	60.00
	Shank type:	BMT
	Tool adaption:	ER 32 A - u-tec
	Gear ratio [i]:	1:2
	Torque max [Nm]:	40
	Rotation max [1/min]:	12000
	Rotating direction:	opposite
	Coolant:	IC/Ext
	Pressure max [bar]:	140
	Please note:	stronger bearing
	Offset [mm]:	50

Part-#	Name	
<b>8 019 66 019</b>	<b>Axial drilling and milling head ER 32 AX UT</b>	
	Notation:	offset; 180° reversible
	Tool drive:	Flat (~DIN 1809)
	Shank size [mm]:	60.00
	Shank type:	BMT
	Tool adaption:	ER 32 A - u-tec
	Gear ratio [i]:	2:1
	Torque max [Nm]:	80
	Rotation max [1/min]:	3000
	Rotating direction:	opposite
	Coolant:	EXT
	Please note:	stronger bearing
	Offset [mm]:	50
<b>8 019 66 022</b>	<b>Axial drilling and milling head ER 32 AS UT IC</b>	
	Weight [kg]:	11.130
	Notation:	offset; 180° reversible
	Tool drive:	Flat (~DIN 1809)
	Shank size [mm]:	60.00
	Shank type:	BMT
	Tool adaption:	ER 32 A - u-tec
	Gear ratio [i]:	1:1
	Torque max [Nm]:	50
	Rotation max [1/min]:	10000
	Rotating direction:	opposite
	Coolant:	IC/Ext
	Pressure max [bar]:	140
	Please note:	stronger bearing
	Offset [mm]:	50
<b>8 019 66 073</b>	<b>Axial drilling and milling head ER 32 AS UT</b>	
	Notation:	offset; 180° reversible
	Tool drive:	Flat (~DIN 1809)
	Shank size [mm]:	60.00
	Shank type:	BMT
	Tool adaption:	ER 32 A - u-tec
	Gear ratio [i]:	1:2
	Torque max [Nm]:	40
	Rotation max [1/min]:	12000
	Rotating direction:	opposite
	Coolant:	EXT
	Please note:	stronger bearing
	Offset [mm]:	50
<b>8 019 66 074</b>	<b>Axial drilling and milling head ER 32 AS UT</b>	
	Weight [kg]:	9.220
	Notation:	offset; 180° reversible
	Tool drive:	Flat (~DIN 1809)
	Shank size [mm]:	60.00
	Shank type:	BMT
	Tool adaption:	ER 32 A - u-tec
	Gear ratio [i]:	1:1
	Torque max [Nm]:	50
	Rotation max [1/min]:	10000
	Rotating direction:	opposite
	Coolant:	EXT
	Please note:	stronger bearing
	Offset [mm]:	50

Part-#	Name	
	<b>8 019 66 086</b>	<b>Axial drilling and milling head C 4</b>
	Weight [kg]:	10.040
	Notation:	180° reversible, Y-axes offset
	Tool drive:	Flat (~DIN 1809)
	Shank size [mm]:	60.00
	Shank type:	BMT
	Tool adaption:	heimatec Capto(TM) C 4
	Gear ratio [i]:	1:1
	Torque max [Nm]:	50
	Rotation max [1/min]:	6000
	Rotating direction:	opposite
	Coolant:	EXT
	Please note:	Check applicability; tool length check !
Offset [mm]:	62	
	<b>8 030 63 007</b>	<b>Radial drilling and milling head ER 11</b>
	Weight [kg]:	10.950
	Notation:	180° reversible
	Tool drive:	Flat (~DIN 1809)
	Shank size [mm]:	60.00
	Shank type:	BMT
	Tool adaption:	ER 11
	Gear ratio [i]:	1:4
	Torque max [Nm]:	5
	Rotation max [1/min]:	48000
	Rotating direction:	opposite
	Coolant:	EXT
	Center distance [mm]:	90
	<b>8 030 66 146</b>	<b>Radial drilling and milling head HT 4 IC</b>
	Notation:	180° reversible
	Tool drive:	Flat (~DIN 1809)
	Shank size [mm]:	60.00
	Shank type:	BMT
	Tool adaption:	HT 4
	Gear ratio [i]:	1:1
	Torque max [Nm]:	50
	Rotation max [1/min]:	10000
	Rotating direction:	opposite
	Coolant:	IC/Ext
	Pressure max [bar]:	140
	Please note:	stronger bearing
Center distance [mm]:	90	
	<b>8 030 66 163</b>	<b>Radial drilling and milling head C 4 IC</b>
	Weight [kg]:	13.880
	Notation:	180° reversible
	Tool drive:	Flat (~DIN 1809)
	Shank size [mm]:	60.00
	Shank type:	BMT
	Tool adaption:	heimatec Capto(TM) C 4
	Gear ratio [i]:	1:1
	Torque max [Nm]:	80
	Rotation max [1/min]:	6000
	Rotating direction:	opposite
	Coolant:	IC/Ext
	Pressure max [bar]:	140

Part-#	Name
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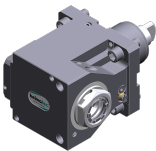
Please note: Check applicability; tool length beachten!  
Center distance [mm]: 90

**8 030 66 201**



**Radial drilling and milling head ER 32 AX UT**  
Weight [kg]: 12.780  
Notation: 180° reversible  
Tool drive: Flat (~DIN 1809)  
Shank size [mm]: 60.00  
Shank type: BMT  
Tool adaption: ER 32 A - u-tec  
Gear ratio [i]: 1:1  
Torque max [Nm]: 50  
Rotation max [1/min]: 10000  
Rotating direction: opposite  
Coolant: EXT  
Please note: stronger bearing  
Center distance [mm]: 90

**8 030 66 208**



**Radial drilling and milling head ER 32 AX UT IC**  
Weight [kg]: 12.970  
Notation: 180° reversible  
Tool drive: Flat (~DIN 1809)  
Shank size [mm]: 60.00  
Shank type: BMT  
Tool adaption: ER 32 A - u-tec  
Gear ratio [i]: 1:1  
Torque max [Nm]: 50  
Rotation max [1/min]: 10000  
Rotating direction: opposite  
Coolant: IC/Ext  
Pressure max [bar]: 140  
Please note: stronger bearing  
Center distance [mm]: 90

**8 030 67 081**

**Radial drilling and milling head HT 5**  
Notation: 180° reversible  
Tool drive: Flat (~DIN 1809)  
Shank size [mm]: 60.00  
Shank type: BMT  
Tool adaption: HT 5  
Gear ratio [i]: 1:1  
Torque max [Nm]: 50  
Rotation max [1/min]: 10000  
Rotating direction: opposite  
Coolant: EXT  
Please note: stronger bearing  
Center distance [mm]: 90

**8 030 67 082**

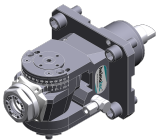
**Radial drilling and milling head HT 5 IC**  
Notation: 180° reversible  
Tool drive: Flat (~DIN 1809)  
Shank size [mm]: 60.00  
Shank type: BMT  
Tool adaption: HT 5  
Gear ratio [i]: 1:1  
Torque max [Nm]: 50  
Rotation max [1/min]: 10000

Part-#	Name	
	Rotating direction:	opposite
	Coolant:	IC/Ext
	Pressure max [bar]:	140
	Please note:	stronger bearing
	Center distance [mm]:	90
<b>8 030 67 136</b>	<b>Radial drilling and milling head ER 40 AX UT IC</b>	
	Weight [kg]:	13.280
	Notation:	180° reversible
	Tool drive:	Flat (~DIN 1809)
	Shank size [mm]:	60.00
	Shank type:	BMT
	Tool adaption:	ER 40 A - u-tec
	Gear ratio [i]:	1:1
	Torque max [Nm]:	50
	Rotation max [1/min]:	10000
	Rotating direction:	opposite
	Coolant:	IC/Ext
	Pressure max [bar]:	140
	Please note:	stronger bearing
	Center distance [mm]:	90
<b>8 030 67 139</b>	<b>Radial drilling and milling head ER 40 AX UT</b>	
	Weight [kg]:	13.120
	Notation:	180° reversible
	Tool drive:	Flat (~DIN 1809)
	Shank size [mm]:	60.00
	Shank type:	BMT
	Tool adaption:	ER 40 A - u-tec
	Gear ratio [i]:	1:1
	Torque max [Nm]:	50
	Rotation max [1/min]:	10000
	Rotating direction:	opposite
	Coolant:	EXT
	Please note:	stronger bearing
	Center distance [mm]:	90
<b>8 030 68 041</b>	<b>Radial drilling and milling head HT 6</b>	
	Notation:	180° reversible
	Tool drive:	Flat (~DIN 1809)
	Shank size [mm]:	60.00
	Shank type:	BMT
	Tool adaption:	HT 6
	Gear ratio [i]:	1:1
	Torque max [Nm]:	50
	Rotation max [1/min]:	10000
	Rotating direction:	opposite
	Coolant:	EXT
	Please note:	stronger bearing
	Center distance [mm]:	90
<b>8 030 68 042</b>	<b>Radial drilling and milling head HT 6 IC</b>	
	Weight [kg]:	13.260
	Notation:	180° reversible
	Tool drive:	Flat (~DIN 1809)
	Shank size [mm]:	60.00
	Shank type:	BMT
	Tool adaption:	HT 6


Part-#	Name	
	Gear ratio [i]:	1:1
	Torque max [Nm]:	50
	Rotation max [1/min]:	10000
	Rotating direction:	opposite
	Coolant:	IC/Ext
	Pressure max [bar]:	140
	Please note:	stronger bearing
	Center distance [mm]:	90
<b>8 031 65 012</b>	<b>Radial milling head universal arbor 22</b>	
	Weight [kg]:	13.100
	Notation:	180° reversible
	Tool drive:	Flat (~DIN 1809)
	Shank size [mm]:	60.00
	Shank type:	BMT
	Tool adaption:	Universal arbor 22
	Gear ratio [i]:	1:1
	Torque max [Nm]:	50
	Rotation max [1/min]:	10000
	Rotating direction:	opposite
	Coolant:	EXT
	Please note:	stronger bearing
	Center distance [mm]:	90
<b>8 031 66 004</b>	<b>Radial milling head universal arbor 27</b>	
	Weight [kg]:	13.210
	Notation:	180° reversible
	Tool drive:	Flat (~DIN 1809)
	Shank size [mm]:	60.00
	Shank type:	BMT
	Tool adaption:	Universal arbor 27
	Gear ratio [i]:	1:1
	Torque max [Nm]:	50
	Rotation max [1/min]:	10000
	Rotating direction:	opposite
	Coolant:	EXT
	Please note:	stronger bearing
	Center distance [mm]:	90
<b>8 037 64 019</b>	<b>Radial disk mill head arbor 3/4"</b>	
	Weight [kg]:	13.440
	Version:	± 45° turnable; at 0° position can be pinned
	Tool drive:	Flat (~DIN 1809)
	Shank size [mm]:	60.00
	Shank type:	BMT
	Tool adaption:	Arbor 3/4" (19,05mm)
	Gear ratio [i]:	2:1
	Torque max [Nm]:	63
	Rotation max [1/min]:	3000
	Rotating direction:	same
	Coolant:	EXT
	Please note:	strong version; stronger bearing
	Center distance [mm]:	100

Part-#	Name	
<b>8 037 65 020</b>	<b>Radial disk mill head arbor 1"</b>	
	Weight [kg]:	13.640
	Tool drive:	Flat (~DIN 1809)
	Shank size [mm]:	60.00
	Shank type:	BMT
	Tool adaption:	Arbor 1" (25,4mm)
	Gear ratio [i]:	2:1
	Torque max [Nm]:	63
	Rotation max [1/min]:	3000
	Rotating direction:	same
	Coolant:	EXT
	Please note:	strong version; stronger bearing
	Center distance [mm]:	100
<b>8 037 65 023</b>	<b>Radial disk mill head arbor 22</b>	
	Weight [kg]:	13.570
	Version:	± 45° turnable; at 0° position can be pinned
	Tool drive:	Flat (~DIN 1809)
	Shank size [mm]:	60.00
	Shank type:	BMT
	Tool adaption:	Arbor 22
	Gear ratio [i]:	2:1
	Torque max [Nm]:	63
	Rotation max [1/min]:	3000
	Rotating direction:	same
	Coolant:	EXT
	Please note:	strong version; stronger bearing
	Center distance [mm]:	100
<b>8 037 66 007</b>	<b>Radial disk mill head arbor 1 1/4"</b>	
	Weight [kg]:	13.930
	Version:	Special
	Tool drive:	Flat (~DIN 1809)
	Shank size [mm]:	60.00
	Shank type:	BMT
	Tool adaption:	Arbor 1 1/4" (31,75mm)
	Gear ratio [i]:	2:1
	Torque max [Nm]:	63
	Rotation max [1/min]:	3000
	Rotating direction:	same
	Coolant:	EXT
	Please note:	strong version; stronger bearing
	Center distance [mm]:	100
<b>8 039 66 010</b>	<b>Radial drilling and milling head ER 32</b>	
	Weight [kg]:	13.290
	Version:	double spindle
	Tool drive:	Flat (~DIN 1809)
	Shank size [mm]:	60.00
	Shank type:	BMT
	Tool adaption:	ER 32
	Gear ratio [i]:	1:1
	Torque max [Nm]:	50
	Rotation max [1/min]:	10000
	Rotating direction:	same/opposite
	Coolant:	EXT
	Please note:	stronger bearing
	Center distance [mm]:	90

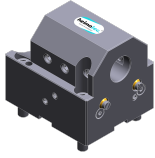
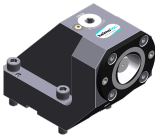
Part-#	Name	
<b>8 039 66 038</b>	<b>Radial drilling and milling head ER 32 AX UT</b>	
	Weight [kg]:	12.570
	Employment for:	Main- and sub spindle
	Version:	double spindle
	Tool drive:	Flat (~DIN 1809)
	Shank size [mm]:	60.00
	Shank type:	BMT
	Tool adaption:	ER 32 A - u-tec
	Gear ratio [i]:	1:1
	Torque max [Nm]:	50
	Rotation max [1/min]:	10000
	Rotating direction:	same/opposite
	Coolant:	EXT
	Please note:	stronger bearing
	Center distance [mm]:	90
<b>8 039 67 000</b>	<b>Radial drilling and milling head ER 40</b>	
	Weight [kg]:	13.410
	Employment for:	Main- and sub spindle
	Version:	double spindle
	Tool drive:	Flat (~DIN 1809)
	Shank size [mm]:	60.00
	Shank type:	BMT
	Tool adaption:	ER 40
	Gear ratio [i]:	1:1
	Torque max [Nm]:	50
	Rotation max [1/min]:	10000
	Rotating direction:	same/opposite
	Coolant:	EXT
	Please note:	stronger bearing
	Center distance [mm]:	90
<b>8 039 67 007</b>	<b>Radial drilling and milling head HT 5</b>	
	Employment for:	Main- and sub spindle
	Version:	double spindle
	Tool drive:	Flat (~DIN 1809)
	Shank size [mm]:	60.00
	Shank type:	BMT
	Tool adaption:	HT 5
	Gear ratio [i]:	1:1
	Torque max [Nm]:	50
	Rotation max [1/min]:	10000
	Rotating direction:	same/opposite
	Coolant:	EXT
	Please note:	stronger bearing
	Center distance [mm]:	90
<b>8 039 67 015</b>	<b>Radial drilling and milling head ER 40 AX UT</b>	
	Weight [kg]:	13.000
	Employment for:	Main- and sub spindle
	Version:	double spindle
	Tool drive:	Flat (~DIN 1809)
	Shank size [mm]:	60.00
	Shank type:	BMT
	Tool adaption:	ER 40 A - u-tec
	Gear ratio [i]:	1:1
	Torque max [Nm]:	50
	Rotation max [1/min]:	10000

Part-#	Name	
	Rotating direction:	same/opposite
	Coolant:	EXT
	Please note:	stronger bearing
	Center distance [mm]:	90
<b>8 039 68 008</b>	<b>Radial drilling and milling head HT 6</b>	
	Employment for:	Main- and sub spindle
	Version:	double spindle
	Tool drive:	Flat (~DIN 1809)
	Shank size [mm]:	60.00
	Shank type:	BMT
	Tool adaption:	HT 6
	Gear ratio [i]:	1:1
	Torque max [Nm]:	50
	Rotation max [1/min]:	10000
	Rotating direction:	same/opposite
	Coolant:	EXT
	Please note:	stronger bearing
	Center distance [mm]:	90
<b>8 040 64 011</b>	<b>Universal head ± 90° adjustable ER 16 AX UT</b>	
	Weight [kg]:	5.750
	Tool drive:	Flat (~DIN 1809)
	Shank size [mm]:	60.00
	Shank type:	BMT
	Tool adaption:	ER 16 A - u-tec
	Gear ratio [i]:	1:2
	Torque max [Nm]:	12
	Rotation max [1/min]:	12000
	Rotating direction:	opposite
	Coolant:	EXT
	Please note:	Note swivel range !
	Center distance [mm]:	81
<b>8 040 65 004</b>	<b>Universal head ± 90° adjustable ER 25 AX UT</b>	
	Weight [kg]:	6.000
	Tool drive:	Flat (~DIN 1809)
	Shank size [mm]:	60.00
	Shank type:	BMT
	Tool adaption:	ER 25 A - u-tec
	Gear ratio [i]:	1:1
	Torque max [Nm]:	25
	Rotation max [1/min]:	6000
	Rotating direction:	opposite
	Coolant:	EXT
	Please note:	Note swivel range !; stronger bearing
	Center distance [mm]:	81
<b>8 040 65 008</b>	<b>Universal head ± 90° adjustable ER 25 AX UT IC</b>	
	Weight [kg]:	5.990
	Tool drive:	Flat (~DIN 1809)
	Shank size [mm]:	60.00
	Shank type:	BMT
	Tool adaption:	ER 25 A - u-tec
	Gear ratio [i]:	1:1
	Torque max [Nm]:	25
	Rotation max [1/min]:	6000


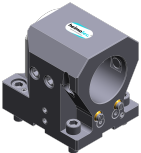
Part-#	Name	
	Rotating direction:	opposite
	Coolant:	IC/Ext
	Pressure max [bar]:	140
	Please note:	Note swivel range !
	Center distance [mm]:	81
<b>8 040 65 019</b>	<b>Universal head ± 90° adjustable ER 25 AX UT</b>	
	Weight [kg]:	6.000
	Version:	at 45° position can be pinned
	Tool drive:	Flat (~DIN 1809)
	Shank size [mm]:	60.00
	Shank type:	BMT
	Tool adaption:	ER 25 A - u-tec
	Gear ratio [i]:	1:1
	Torque max [Nm]:	25
	Rotation max [1/min]:	10000
	Rotating direction:	opposite
	Coolant:	EXT
	Please note:	Note swivel range!; stronger bearing
	Center distance [mm]:	81
<b>8 050 65 000</b>	<b>Multispindle drilling head ER 25 AX UT</b>	
	Weight [kg]:	8.260
	Version:	2-spindles
	Tool drive:	Flat (~DIN 1809)
	Shank size [mm]:	60.00
	Shank type:	BMT
	Tool adaption:	ER 25 A - u-tec
	Gear ratio [i]:	1:1
	Torque max [Nm]:	32/Sp.
	Rotation max [1/min]:	6000
	Rotating direction:	opposite
	Coolant:	EXT
	Please note:	stronger bearing
<b>8 050 65 001</b>	<b>Multispindle drilling head ER 25 AX UT IC</b>	
	Weight [kg]:	8.240
	Version:	2-spindles
	Tool drive:	Flat (~DIN 1809)
	Shank size [mm]:	60.00
	Shank type:	BMT
	Tool adaption:	ER 25 A - u-tec
	Gear ratio [i]:	1:1
	Torque max [Nm]:	32/Sp.
	Rotation max [1/min]:	6000
	Rotating direction:	opposite
	Coolant:	IC/Ext
	Pressure max [bar]:	25
	Please note:	stronger bearing
<b>8 050 65 022</b>	<b>Multispindle drilling head ER 25 AX UT IC</b>	
	Weight [kg]:	8.790
	Version:	2-spindles
	Tool drive:	Flat (~DIN 1809)
	Shank size [mm]:	60.00
	Shank type:	BMT
	Tool adaption:	ER 25 A - u-tec

Part-#	Name	
	Gear ratio [i]:	1:1
	Torque max [Nm]:	32/Sp.
	Rotation max [1/min]:	10000
	Rotating direction:	opposite
	Coolant:	IC/Ext
	Pressure max [bar]:	140
	Please note:	stronger bearing
	Offset [mm]:	+35/ -35
<b>8 053 65 014</b>	<b>Multispindle radial head ER 25 AX UTIK</b>	
	Weight [kg]:	14.270
	Notation:	180° reversible
	Version:	2-spindles
	Tool drive:	Flat (~DIN 1809)
	Shank size [mm]:	60.00
	Shank type:	BMT
	Tool adaption:	ER 25 A - u-tec
	Gear ratio [i]:	1:1
	Torque max [Nm]:	32/Sp
	Rotation max [1/min]:	10000
	Rotating direction:	same
	Coolant:	IC/Ext
	Pressure max [bar]:	140
	Center distance [mm]:	90
	Offset [mm]:	±35
<b>8 200 64 001</b>	<b>Cover plate</b>	
	Weight [kg]:	2.610
	Shank type:	BMT
<b>8 202 10 010</b>	<b>Basic holder longitudinal seat FN 12</b>	
	Weight [kg]:	2.370
	Notation:	180° reversible
	Shank type:	BMT
	Machine adaption:	Centering key slot b 20
	Tool adaption:	Interface FN 12
	Coolant:	EXT
<b>8 224 12 007</b>	<b>Cut-off holder sq. 25</b>	
	Weight [kg]:	3.500
	Shank type:	BMT
	Machine adaption:	Centering key slot b 20
	Tool adaption:	Sq. 25
	Coolant:	EXT
<b>8 224 12 017</b>	<b>Cut-off holder sq. 1"</b>	
	Weight [kg]:	4.050
	Shank type:	BMT
	Machine adaption:	Centering key slot b 20
	Tool adaption:	Sq. 1" (25,4mm)
	Coolant:	EXT

Part-#	Name	
<b>8 224 14 002</b>	<b>Universal turning holder sq. 20</b>	
	Weight [kg]:	4.910
	Shank type:	BMT
	Machine adaption:	Centering key slot b 20
	Tool adaption:	Sq. 20 Sq. 20
	Coolant:	EXT
	Pressure max [bar]:	80
<b>8 224 15 003</b>	<b>Universal turning holder sq. 25</b>	
	Weight [kg]:	5.460
	Shank type:	BMT
	Machine adaption:	Centering key slot b 20
	Tool adaption:	Sq. 25 Sq. 25
	Coolant:	EXT
	Pressure max [bar]:	80
<b>8 224 15 014</b>	<b>Universal turning holder sq. 1"</b>	
	Weight [kg]:	5.560
	Shank type:	BMT
	Machine adaption:	Centering key slot b 20
	Tool adaption:	Sq. 1" (25,4mm) Sq. 1" (25,4mm)
	Coolant:	EXT
<b>8 240 14 003</b>	<b>Insert drill holder 12 IC</b>	
	Weight [kg]:	8.870
	Notation:	180° reversible
	Shank type:	BMT
	Machine adaption:	Centering key slot b 20
	Tool adaption:	Whistle-Notch (DIN 1835 E) 12
	Coolant:	IC
	Center distance [mm]:	80
<b>8 240 15 014</b>	<b>Insert drill holder 16 IC</b>	
	Weight [kg]:	8.820
	Notation:	180° reversible
	Shank type:	BMT
	Machine adaption:	Centering key slot b 20
	Tool adaption:	Whistle-Notch (DIN 1835 E) 16
	Coolant:	IC
	Center distance [mm]:	80
<b>8 240 16 039</b>	<b>Collet chuck holder ER 32</b>	
	Weight [kg]:	7.570
	Notation:	180° reversible
	Shank size [mm]:	59.70
	Shank type:	BMT
	Machine adaption:	Centering key slot b 20
	Tool adaption:	ER 32
	Coolant:	IC/Ext
	Pressure max [bar]:	80
	Please note:	Insert reversible
	Center distance [mm]:	80


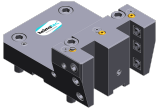
Part-#	Name	
<b>8 240 16 057</b>	<b>Tool holder ABS 63</b>	
	Weight [kg]:	8.050
	Notation:	180° reversible
	Shank size [mm]:	59.70
	Shank type:	BMT
	Machine adaption:	Centering key slot b 20
	Tool adaption:	ABS 63
	Coolant:	IC/Ext
	Please note:	Insert reversible
	Center distance [mm]:	80
<b>8 240 17 022</b>	<b>Collet chuck holder ER 40</b>	
	Weight [kg]:	7.720
	Notation:	180° reversible
	Shank size [mm]:	59.70
	Shank type:	BMT
	Machine adaption:	Centering key slot b 20
	Tool adaption:	ER 40
	Coolant:	IC/Ext
	Pressure max [bar]:	80
	Please note:	Insert reversible
	Center distance [mm]:	80
<b>8 240 17 112</b>	<b>Boring bar holder Ø 1 1/4"</b>	
	Weight [kg]:	9.010
	Notation:	180° reversible
	Shank size [mm]:	59.70
	Shank type:	BMT
	Machine adaption:	Centering key slot b 20
	Tool adaption:	Ø 1 1/4" (31,75mm)
	Coolant:	IC/Ext
	Center distance [mm]:	80
<b>8 240 18 019</b>	<b>Tool holder HT 6</b>	
	Weight [kg]:	7.900
	Notation:	180° reversible
	Shank type:	BMT
	Machine adaption:	Centering key slot b 20
	Tool adaption:	HT 6
	Coolant:	IC/Ext
	Please note:	Insert reversible
	Center distance [mm]:	80
<b>8 240 18 034</b>	<b>Tool holder C 6 IC</b>	
	Weight [kg]:	13.920
	Shank type:	BMT
	Machine adaption:	Centering key slot b 20
	Tool adaption:	heimatec Capto(TM) C 6
	Coolant:	IC
	Please note:	Check applicability; note tool length!
	Center distance [mm]:	110

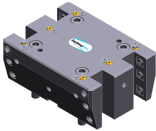

Part-#	Name	
<b>8 240 18 075</b>	<b>Insert drill holder 32 IC</b>	
	Weight [kg]:	9.620
	Notation:	180° reversible
	Shank size [mm]:	60.00
	Shank type:	BMT
	Machine adaption:	Centering key slot b 20
	Tool adaption:	Ø 32
	Coolant:	IC
	Center distance [mm]:	80
<b>8 240 19 016</b>	<b>Boring bar holder Ø 50</b>	
	Weight [kg]:	8.170
	Notation:	180° reversible
	Shank type:	BMT
	Machine adaption:	Centering key slot b 20
	Tool adaption:	Ø 50
	Coolant:	IC/Ext
	Pressure max [bar]:	80
	Center distance [mm]:	80
<b>8 240 19 018</b>	<b>Boring bar holder Ø 50</b>	
	Weight [kg]:	12.160
	Employment for:	Heavy duty cutting
	Version:	long
	Shank type:	BMT
	Machine adaption:	Centering key slot b 20
	Tool adaption:	Ø 50
	Coolant:	IC/Ext
	Please note:	optimum assembly with 8 788 99 000 possible
	Center distance [mm]:	80
<b>8 240 19 033</b>	<b>Boring bar holder Ø 40</b>	
	Weight [kg]:	11.210
	Notation:	180° reversible
	Version:	long
	Shank type:	BMT
	Machine adaption:	Centering key slot b 20
	Tool adaption:	Ø 40
	Coolant:	IC/Ext
	Pressure max [bar]:	80
	Center distance [mm]:	120
<b>8 240 19 035</b>	<b>Boring bar holder Ø 1 1/2"</b>	
	Weight [kg]:	8.780
	Notation:	180° reversible
	Shank size [mm]:	59.70
	Shank type:	BMT
	Machine adaption:	Centering key slot b 20
	Tool adaption:	Ø 1 1/2" (38,1mm)
	Coolant:	IC/Ext
	Center distance [mm]:	80

Part-#	Name	
<b>8 240 19 041</b>	<b>Insert drill holder 40 IC</b>	
	Weight [kg]:	9.270
	Notation:	180° reversible
	Shank type:	BMT
	Machine adaption:	Centering key slot b 20
	Tool adaption:	Ø 40
	Coolant:	IC
	Center distance [mm]:	80
<b>8 240 19 050</b>	<b>Boring bar holder Ø 2"</b>	
	Weight [kg]:	8.120
	Notation:	180° reversible
	Shank size [mm]:	59.70
	Shank type:	BMT
	Machine adaption:	Centering key slot b 20
	Tool adaption:	Ø 2" (50,8mm)
	Coolant:	IC/Ext
	Center distance [mm]:	80
<b>8 240 19 082</b>	<b>Boring bar holder Ø 1 1/2"</b>	
	Weight [kg]:	11.500
	Notation:	180° reversible
	Shank type:	BMT
	Machine adaption:	Centering key slot b 20
	Tool adaption:	Ø 1 1/2" (38,1mm)
	Coolant:	IC/Ext
	Center distance [mm]:	120
<b>8 240 19 083</b>	<b>Boring bar holder Ø 2"</b>	
	Weight [kg]:	10.940
	Notation:	180° reversible
	Shank type:	BMT
	Machine adaption:	Centering key slot b 20
	Tool adaption:	Ø 2" (50,8mm)
	Coolant:	IC/Ext
	Center distance [mm]:	120
<b>8 240 19 084</b>	<b>Boring bar holder Ø 2 1/2"</b>	
	Weight [kg]:	8.580
	Notation:	180° reversible
	Shank type:	BMT
	Machine adaption:	Centering key slot b 20
	Tool adaption:	Ø 2 1/2" (63,5mm)
	Coolant:	IC/Ext
	Center distance [mm]:	80
<b>8 240 19 107</b>	<b>Boring bar holder Ø 40</b>	
	Weight [kg]:	10.200
	Notation:	180° reversible
	Shank type:	BMT
	Machine adaption:	Centering key slot b 20
	Tool adaption:	Ø 40
	Coolant:	IC/Ext
	Center distance [mm]:	100

Part-#	Name	
<b>8 244 15 001</b>	<b>Combi facing holder sq. 25</b>	
	Weight [kg]:	9.600
	Notation:	180° reversible
	Shank type:	BMT
	Machine adaption:	Centering key slot b 20
	Tool adaption:	Sq. 25 Sq. 25
	Coolant:	EXT
	Pressure max [bar]:	80
	Center distance [mm]:	75
<b>8 244 15 004</b>	<b>Combi facing holder sq. 1"</b>	
	Weight [kg]:	9.610
	Notation:	180° reversible
	Shank type:	BMT
	Machine adaption:	Centering key slot b 20
	Tool adaption:	Sq. 1" (25,4mm) Sq. 1" (25,4mm)
	Coolant:	EXT
	Center distance [mm]:	75
<b>8 249 16 004</b>	<b>Double collet chuck holder ER 32</b>	
	Weight [kg]:	8.040
	Notation:	180° reversible
	Employment for:	Main- and sub spindle
	Shank type:	BMT
	Machine adaption:	Centering key slot b 20
	Tool adaption:	ER 32
	Coolant:	IC/Ext
	Pressure max [bar]:	80
	Center distance [mm]:	80
<b>8 249 16 006</b>	<b>Double tool holder C 4 IC</b>	
	Weight [kg]:	7.570
	Notation:	180° reversible
	Employment for:	Main- and sub spindle
	Version:	right
	Shank type:	BMT
	Machine adaption:	Centering key slot b 20
	Tool adaption:	heimatec Capto(TM) C 4 heimatec Capto(TM) C 4
	Coolant:	IC
	Please note:	Check applicability; note tool length!
	Center distance [mm]:	90
<b>8 249 16 010</b>	<b>Double collet chuck holder ER 32</b>	
	Weight [kg]:	11.370
	Notation:	180° reversible
	Employment for:	Main- and sub spindle
	Shank type:	BMT
	Machine adaption:	Centering key slot b 20
	Tool adaption:	ER 32
	Coolant:	IC/Ext
	Pressure max [bar]:	80
	Center distance [mm]:	120

Part-#	Name	
<b>8 249 17 002</b>	<b>Double collet chuck holder ER 40</b>	
	Weight [kg]:	8.330
	Notation:	180° reversible
	Employment for:	Main- and sub spindle
	Shank size [mm]:	59.70
	Shank type:	BMT
	Machine adaption:	Centering key slot b 20
	Tool adaption:	ER 40
	Coolant:	IC/Ext
	Pressure max [bar]:	80
	Center distance [mm]:	80
<b>8 249 18 000</b>	<b>Double tool holder HT 6</b>	
	Notation:	180° reversible
	Employment for:	Main- and sub spindle
	Shank type:	BMT
	Machine adaption:	Centering key slot b 20
	Tool adaption:	HT 6
	Coolant:	EXT
	Center distance [mm]:	80
<b>8 251 14 007</b>	<b>Combi double turning holder sq. 20</b>	
	Weight [kg]:	7.800
	Shank type:	BMT
	Machine adaption:	Centering key slot b 20
	Tool adaption:	Sq. 20
	Coolant:	EXT
<b>8 251 15 001</b>	<b>Combi double turning holder sq. 25</b>	
	Weight [kg]:	8.280
	Version:	short
	Shank type:	BMT
	Machine adaption:	Centering key slot b 20
	Tool adaption:	Sq. 25
		Sq. 25
		Sq. 25
		Sq. 25
	Coolant:	EXT
	Pressure max [bar]:	80
<b>8 251 15 002</b>	<b>Combi double turning holder sq. 25</b>	
	Weight [kg]:	10.020
	Version:	extended
	Shank type:	BMT
	Machine adaption:	Centering key slot b 20
	Tool adaption:	Sq. 25
		Sq. 25
		Sq. 25
		Sq. 25
	Coolant:	EXT
	Pressure max [bar]:	80

Part-#	Name	
<b>8 251 15 009</b>	<b>Combi double turning holder sq. 1"</b>	
	Weight [kg]:	8.290
	Version:	short
	Shank type:	BMT
	Machine adaption:	Centering key slot b 20
	Tool adaption:	Sq. 1" (25,4mm)
	Coolant:	EXT
<b>8 251 15 010</b>	<b>Combi double turning holder sq. 1"</b>	
	Weight [kg]:	10.030
	Version:	long
	Shank type:	BMT
	Machine adaption:	Centering key slot b 20
	Tool adaption:	Sq. 1" (25,4mm)
	Coolant:	EXT
<b>8 253 18 001</b>	<b>Double boring bar holder Ø 32</b>	
	Weight [kg]:	11.900
	Employment for:	Main- and sub spindle
	Shank type:	BMT
	Machine adaption:	Centering key b 20
	Tool adaption:	Ø 32
	Coolant:	IC/Ext
	Pressure max [bar]:	80
	Center distance [mm]:	80/125
<b>8 253 18 007</b>	<b>Double boring bar holder Ø 1 1/4"</b>	
	Weight [kg]:	12.440
	Employment for:	Main- and sub spindle
	Shank size [mm]:	59.70
	Shank type:	BMT
	Machine adaption:	Centering key b 20
	Tool adaption:	Ø 1 1/4" (31,75mm)
	Coolant:	IC/Ext
	Center distance [mm]:	80/125
<b>8 253 18 010</b>	<b>Double boring bar holder Ø 1 1/2"</b>	
	Weight [kg]:	11.260
	Employment for:	Main- and sub spindle
	Shank size [mm]:	59.70
	Shank type:	BMT
	Machine adaption:	Centering key b 20
	Tool adaption:	Ø 1 1/2" (38,1mm)
	Coolant:	IC/Ext
	Center distance [mm]:	65/120
<b>8 259 12 001</b>	<b>Multiple turning holder sq. 25 / 1"</b>	
	Weight [kg]:	6.470
	Notation:	180° reversible
	Version:	Y-axes offset
	Shank type:	BMT
	Machine adaption:	Centering key slot b 20
	Tool adaption:	Sq. 25
		Sq. 25
	Coolant:	EXT

Part-#	Name	
<b>8 259 12 002</b>	<b>Multiple turning holder sq. 25 / 1"</b>	
	Weight [kg]:	11.830
	Employment for:	Main- and sub spindle
	Version:	Y-axes offset
	Shank type:	BMT
	Machine adaption:	Centering key slot b 20
	Tool adaption:	Sq. 25/1" (25,4mm)
		Sq. 25/1" (25,4mm)
		Sq. 25/1" (25,4mm)
		Sq. 25/1" (25,4mm)
	Coolant:	EXT
<b>8 320 13 009</b>	<b>Cut-off holder, height adjustable SH 32 IC</b>	
	Weight [kg]:	2.990
	Notation:	180° reversible
	Shank type:	BMT
	Machine adaption:	Centering key slot b 20
	Tool adaption:	Clampshaft SH 32
	Coolant:	IC/Ext
	Pressure max [bar]:	70
<b>8 320 19 005</b>	<b>Cut-off holder, height adjustable 845 IC</b>	
	Weight [kg]:	2.830
	Notation:	180° reversible
	Shank type:	BMT
	Machine adaption:	Centering key slot b 20
	Tool adaption:	 System 845
	Coolant:	IC
	Pressure max [bar]:	70



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