

Nakamura  
**NTJ-100 -**  
**unterer Revolver**



# 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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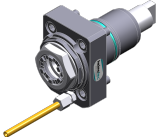

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The current version of our General Terms and Conditions can be found on our website.

Part-#	Name	
<b>8 010 44 055</b>	<b>Axial milling and drill holder ER 20 AX UT</b>	
	Weight [kg]:	1.450
	Tool drive:	Flat (~DIN 1809)
	Shank size [mm]:	44.00
	Shank type:	BMT
	Tool adaption:	ER 20 A - u-tec
	Gear ratio [i]:	1:1
	Torque max [Nm]:	16
	Rotation max [1/min]:	6000
	Rotating direction:	same
	Coolant:	EXT
	Please note:	Combi bearing
<b>8 010 44 056</b>	<b>Axial milling and drill holder ER 20 AX UT IC</b>	
	Weight [kg]:	1.440
	Tool drive:	Flat (~DIN 1809)
	Shank size [mm]:	44.00
	Shank type:	BMT
	Tool adaption:	ER 20 A - u-tec
	Gear ratio [i]:	1:1
	Torque max [Nm]:	16
	Rotation max [1/min]:	6000
	Rotating direction:	same
	Coolant:	IC/Ext
	Pressure max [bar]:	25
	Please note:	Combi bearing
<b>8 010 44 071</b>	<b>Axial drilling and milling head Weldon 14</b>	
	Weight [kg]:	1.640
	Tool drive:	Flat (~DIN 1809)
	Shank size [mm]:	44.00
	Shank type:	BMT
	Tool adaption:	Weldon (DIN 1835 b) 14
	Gear ratio [i]:	1:1
	Torque max [Nm]:	16
	Rotation max [1/min]:	6000
	Rotating direction:	same
	Coolant:	EXT
	Please note:	Combi bearing
<b>8 010 44 085</b>	<b>Axial drilling and milling head ER 20 AX UT IC</b>	
	Weight [kg]:	1.970
	Tool drive:	Flat (~DIN 1809)
	Shank size [mm]:	44.00
	Shank type:	BMT
	Tool adaption:	ER 20 A - u-tec
	Gear ratio [i]:	1:1
	Torque max [Nm]:	16
	Rotation max [1/min]:	10000
	Rotating direction:	same
	Coolant:	IC/Ext
	Pressure max [bar]:	70
	Please note:	High pressure version


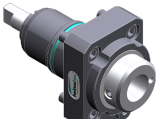


Part-#	Name	
<b>8 010 44 091</b>	<b>Axial drilling and milling head ER 20 AX UT</b>	
	Weight [kg]:	1.530
	Tool drive:	Flat (~DIN 1809)
	Shank size [mm]:	44.00
	Shank type:	BMT
	Tool adaption:	ER 20 A - u-tec
	Gear ratio [i]:	1:1
	Torque max [Nm]:	32
	Rotation max [1/min]:	12000
	Rotating direction:	same
	Coolant:	EXT
<b>8 010 44 092</b>	<b>Axial drilling and milling head ER 20 AX UT IC</b>	
	Weight [kg]:	1.560
	Tool drive:	Flat (~DIN 1809)
	Shank size [mm]:	44.00
	Shank type:	BMT
	Tool adaption:	ER 20 A - u-tec
	Gear ratio [i]:	1:1
	Torque max [Nm]:	32
	Rotation max [1/min]:	12000
	Rotating direction:	same
	Coolant:	IC/Ext
	Pressure max [bar]:	25
<b>8 010 44 093</b>	<b>Axial drilling and milling head ER 20 AX UT IC</b>	
	Weight [kg]:	2.020
	Tool drive:	Flat (~DIN 1809)
	Shank size [mm]:	44.00
	Shank type:	BMT
	Tool adaption:	ER 20 A - u-tec
	Gear ratio [i]:	1:1
	Torque max [Nm]:	32
	Rotation max [1/min]:	12000
	Rotating direction:	same
	Coolant:	IC/Ext
	Pressure max [bar]:	100
	Please note:	Dryrun possible
<b>8 010 45 081</b>	<b>Axial drilling and milling head Weldon 16</b>	
	Tool drive:	Flat (~DIN 1809)
	Shank size [mm]:	44.00
	Shank type:	BMT
	Tool adaption:	Weldon (DIN 1835 b) 16
	Gear ratio [i]:	1:1
	Torque max [Nm]:	16
	Rotation max [1/min]:	6000
	Rotating direction:	same
	Coolant:	EXT
	Please note:	Combi bearing

Part-#	Name	
<b>8 010 45 082</b>	<b>Axial drilling and milling head Weldon 16 IC</b>	
	Tool drive:	Flat (~DIN 1809)
	Shank size [mm]:	44.00
	Shank type:	BMT
	Tool adaption:	Weldon (DIN 1835 b) 16
	Gear ratio [i]:	1:1
	Torque max [Nm]:	16
	Rotation max [1/min]:	6000
	Rotating direction:	same
	Coolant:	IC/Ext
	Pressure max [bar]:	25
	Please note:	Combi bearing
<b>8 010 45 160</b>	<b>Axial drilling and milling head ER 25 AX UT</b>	
	Weight [kg]:	1.530
	Tool drive:	Flat (~DIN 1809)
	Shank size [mm]:	44.00
	Shank type:	BMT
	Tool adaption:	ER 25 A - u-tec
	Gear ratio [i]:	1:1
	Torque max [Nm]:	16
	Rotation max [1/min]:	8000
	Rotating direction:	same
	Coolant:	EXT
	Please note:	stronger bearing
<b>8 010 45 170</b>	<b>Axial drilling and milling head ER 25 IC</b>	
	Weight [kg]:	1.550
	Tool drive:	Flat (~DIN 1809)
	Shank size [mm]:	44.00
	Shank type:	BMT
	Tool adaption:	ER 25
	Gear ratio [i]:	1:1
	Torque max [Nm]:	32
	Rotation max [1/min]:	6000
	Rotating direction:	same
	Coolant:	IC/Ext
	Pressure max [bar]:	25
	Please note:	Combi bearing
<b>8 010 45 191</b>	<b>Axial milling and drill holder ER 25 AX UT</b>	
	Tool drive:	Flat (~DIN 1809)
	Shank size [mm]:	44.00
	Shank type:	BMT
	Tool adaption:	ER 25 A - u-tec
	Gear ratio [i]:	1:1
	Torque max [Nm]:	32
	Rotation max [1/min]:	8000
	Rotating direction:	same
	Coolant:	EXT
	Please note:	Combi bearing

Part-#	Name	
	<b>8 010 45 192</b>	<b>Axial milling and drill holder ER 25 AX UT IC</b>
	Weight [kg]:	1.800
	Tool drive:	Flat (~DIN 1809)
	Shank size [mm]:	44.00
	Shank type:	BMT
	Tool adaption:	ER 25 A - u-tec
	Gear ratio [i]:	1:1
	Torque max [Nm]:	32
	Rotation max [1/min]:	8000
	Rotating direction:	same
	Coolant:	IC/Ext
Pressure max [bar]:	25	
Please note:	Combi bearing	
	<b>8 010 45 193</b>	<b>Axial milling and drill holder ER 25 AX UT IC</b>
	Weight [kg]:	2.340
	Tool drive:	Flat (~DIN 1809)
	Shank size [mm]:	44.00
	Shank type:	BMT
	Tool adaption:	ER 25 A - u-tec
	Gear ratio [i]:	1:1
	Torque max [Nm]:	32
	Rotation max [1/min]:	8000
	Rotating direction:	same
	Coolant:	IC/Ext
Pressure max [bar]:	100	
Please note:	Combi bearing; dryrun possible	
	<b>8 010 45 208</b>	<b>Axial drilling and milling head ER 25 AX UT</b>
	Weight [kg]:	1.500
	Tool drive:	Flat (~DIN 1809)
	Shank size [mm]:	44.00
	Shank type:	BMT
	Tool adaption:	ER 25 A - u-tec
	Gear ratio [i]:	1:1
	Torque max [Nm]:	32
	Rotation max [1/min]:	12000
	Rotating direction:	same
	Coolant:	EXT
	<b>8 010 45 209</b>	<b>Axial drilling and milling head ER 25 AX UT IC</b>
	Weight [kg]:	1.750
	Tool drive:	Flat (~DIN 1809)
	Shank size [mm]:	44.00
	Shank type:	BMT
	Tool adaption:	ER 25 A - u-tec
	Gear ratio [i]:	1:1
	Torque max [Nm]:	32
	Rotation max [1/min]:	12000
	Rotating direction:	same
	Coolant:	IC/Ext
Pressure max [bar]:	25	



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Part-#	Name	
<b>8 010 45 210</b>	<b>Axial drilling and milling head ER 25 AX UT IC</b>	
	Weight [kg]:	1.980
	Tool drive:	Flat (~DIN 1809)
	Shank size [mm]:	44.00
	Shank type:	BMT
	Tool adaption:	ER 25 A - u-tec
	Gear ratio [i]:	1:1
	Torque max [Nm]:	32
	Rotation max [1/min]:	15000
	Rotating direction:	same
	Coolant:	IC/Ext
	Pressure max [bar]:	100
	Please note:	Dryrun possible
<b>8 010 46 149</b>	<b>Axial drilling and milling head HT 4 IC</b>	
	Tool drive:	Flat (~DIN 1809)
	Shank size [mm]:	44.00
	Shank type:	BMT
	Tool adaption:	HT 4
	Gear ratio [i]:	1:1
	Torque max [Nm]:	16
	Rotation max [1/min]:	6000
	Rotating direction:	same
	Coolant:	IC/Ext
	Pressure max [bar]:	25
	Please note:	Combi bearing
<b>8 010 46 277</b>	<b>Axial drilling and milling head HT 4 IC</b>	
	Weight [kg]:	1.400
	Tool drive:	Flat (~DIN 1809)
	Shank size [mm]:	44.00
	Shank type:	BMT
	Tool adaption:	HT 4
	Gear ratio [i]:	1:1
	Torque max [Nm]:	16
	Rotation max [1/min]:	8000
	Rotating direction:	same
	Coolant:	IC/Ext
	Pressure max [bar]:	25
	Please note:	stronger bearing
<b>8 010 46 323</b>	<b>Axial drilling and milling head Weldon 20</b>	
	Weight [kg]:	1.940
	Tool drive:	Flat (~DIN 1809)
	Shank size [mm]:	44.00
	Shank type:	BMT
	Tool adaption:	Weldon (DIN 1835 b) 20
	Gear ratio [i]:	1:1
	Torque max [Nm]:	32
	Rotation max [1/min]:	12000
	Rotating direction:	same
	Coolant:	EXT

Part-#	Name	
<b>8 011 44 017</b>	<b>Axial milling head universal arbor 16</b>	
	Weight [kg]:	1.560
	Tool drive:	Flat (~DIN 1809)
	Shank size [mm]:	44.00
	Shank type:	BMT
	Tool adaption:	Universal arbor 16
	Gear ratio [i]:	1:1
	Torque max [Nm]:	32
	Rotation max [1/min]:	6000
	Rotating direction:	same
	Coolant:	EXT
	Please note:	Combi bearing
<b>8 011 44 018</b>	<b>Axial milling head universal arbor 3/4"</b>	
	Weight [kg]:	1.480
	Tool drive:	Flat (~DIN 1809)
	Shank size [mm]:	44.00
	Shank type:	BMT
	Tool adaption:	Universal arbor 3/4" (19,05mm)
	Gear ratio [i]:	1:1
	Torque max [Nm]:	25
	Rotation max [1/min]:	8000
	Rotating direction:	same
	Coolant:	EXT
	Please note:	Combi bearing
<b>8 011 45 024</b>	<b>Axial milling head universal arbor 22</b>	
	Weight [kg]:	1.620
	Tool drive:	Flat (~DIN 1809)
	Shank size [mm]:	44.00
	Shank type:	BMT
	Tool adaption:	Universal arbor 22
	Gear ratio [i]:	1:1
	Torque max [Nm]:	32
	Rotation max [1/min]:	6000
	Rotating direction:	same
	Coolant:	EXT
	Please note:	Combi bearing
<b>8 011 45 033</b>	<b>Axial milling head universal arbor 1"</b>	
	Tool drive:	Flat (~DIN 1809)
	Shank size [mm]:	44.00
	Shank type:	BMT
	Tool adaption:	Universal arbor 1" (25,4mm)
	Gear ratio [i]:	1:1
	Torque max [Nm]:	16
	Rotation max [1/min]:	6000
	Rotating direction:	same
	Coolant:	EXT
	Please note:	Combi bearing

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Part-#	Name	
<b>8 013 43 001</b> 	<b>Axial drilling and milling head ER 11</b>	
	Weight [kg]:	1.850
	Tool drive:	Flat (~DIN 1809)
	Shank size [mm]:	44.00
	Shank type:	BMT
	Tool adaption:	ER 11
	Gear ratio [i]:	1:4
	Torque max [Nm]:	2,5
	Rotation max [1/min]:	48000
	Rotating direction:	same
Coolant:	EXT	
<b>8 013 44 002</b> 	<b>Axial drilling and milling head ER 16 AX UT</b>	
	Weight [kg]:	1.850
	Tool drive:	Flat (~DIN 1809)
	Shank size [mm]:	44.00
	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 44 003</b>	<b>Axial drilling and milling head ER 16 AX UT IC</b>	
	Tool drive:	Flat (~DIN 1809)
	Shank size [mm]:	44.00
	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]:	80	
<b>8 019 44 014</b>	<b>Axial drilling and milling head ER 16</b>	
	Weight [kg]:	3.860
	Notation:	offset; 180° reversible
	Tool drive:	Flat (~DIN 1809)
	Shank size [mm]:	44.00
	Shank type:	BMT
	Tool adaption:	ER 16
	Gear ratio [i]:	1:2
	Torque max [Nm]:	16
	Rotation max [1/min]:	12000
Rotating direction:	opposite	
Coolant:	EXT	
Please note:	Umsetzbarkeit check !	
Offset [mm]:	34,5	

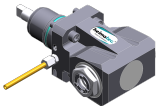
Part-#	Name	
<b>8 019 44 017</b>	<b>Axial drilling and milling head HT 2</b>	
	Weight [kg]:	3.780
	Notation:	offset; 180° reversible
	Tool drive:	Flat (~DIN 1809)
	Shank size [mm]:	44.00
	Shank type:	BMT
	Tool adaption:	HT 2
	Gear ratio [i]:	1:2
	Torque max [Nm]:	16
	Rotation max [1/min]:	12000
	Rotating direction:	opposite
	Coolant:	EXT
	Please note:	Umsetzbarkeit check !
	Offset [mm]:	34,5
<b>8 019 44 040</b>	<b>Axial drilling and milling head ER 16 AX UT</b>	
	Weight [kg]:	3.780
	Notation:	offset; 180° reversible
	Tool drive:	Flat (~DIN 1809)
	Shank size [mm]:	44.00
	Shank type:	BMT
	Tool adaption:	ER 16 A - u-tec
	Gear ratio [i]:	2:1
	Torque max [Nm]:	40
	Rotation max [1/min]:	3000
	Rotating direction:	opposite
	Coolant:	EXT
	Please note:	Umsetzbarkeit check !
	Offset [mm]:	34,5
<b>8 019 44 050</b>	<b>Axial drilling and milling head ER 16 AX UT</b>	
	Weight [kg]:	3.830
	Notation:	offset; 180° reversible
	Tool drive:	Flat (~DIN 1809)
	Shank size [mm]:	44.00
	Shank type:	BMT
	Tool adaption:	ER 16 A - u-tec
	Gear ratio [i]:	1:3
	Torque max [Nm]:	8
	Rotation max [1/min]:	18000
	Rotating direction:	opposite
	Coolant:	EXT
	Please note:	Umsetzbarkeit check !
	Offset [mm]:	34,5
<b>8 019 44 052</b>	<b>Axial drilling and milling head ER 16 AX UT IC</b>	
	Weight [kg]:	4.530
	Notation:	offset
	Tool drive:	Flat (~DIN 1809)
	Shank size [mm]:	44.00
	Shank type:	BMT
	Tool adaption:	ER 16 A - u-tec
	Gear ratio [i]:	1:3
	Torque max [Nm]:	8
	Rotation max [1/min]:	18000
	Rotating direction:	opposite
	Coolant:	IC/Ext
	Pressure max [bar]:	140


Part-#	Name	
	Please note:	180° reversible
	Offset [mm]:	34,5
<b>8 019 44 108</b>	<b>Axial drilling and milling head ER 16 AX UT</b>	
	Notation:	offset; 180° reversible
	Tool drive:	Flat (~DIN 1809)
	Shank size [mm]:	44.00
	Shank type:	BMT
	Tool adaption:	ER 16 A - u-tec
	Gear ratio [i]:	1:1
	Torque max [Nm]:	16
	Rotation max [1/min]:	8000
	Rotating direction:	opposite
	Coolant:	EXT
	Please note:	Umsetzbarkeit check !
	Offset [mm]:	34,5
<b>8 019 44 109</b>	<b>Axial drilling and milling head ER 16 AX UT IC</b>	
	Weight [kg]:	4.450
	Notation:	offset
	Tool drive:	Flat (~DIN 1809)
	Shank size [mm]:	44.00
	Shank type:	BMT
	Tool adaption:	ER 16 A - u-tec
	Gear ratio [i]:	1:1
	Torque max [Nm]:	16
	Rotation max [1/min]:	8000
	Rotating direction:	opposite
	Coolant:	IC/Ext
	Pressure max [bar]:	140
	Please note:	180° reversible
	Offset [mm]:	34,5
<b>8 019 44 124</b>	<b>Axial drilling and milling head ER 16 AX UT IC</b>	
	Weight [kg]:	4.470
	Notation:	offset
	Tool drive:	Flat (~DIN 1809)
	Shank size [mm]:	44.00
	Shank type:	BMT
	Tool adaption:	ER 16 A - u-tec
	Gear ratio [i]:	2:1
	Torque max [Nm]:	40
	Rotation max [1/min]:	3000
	Rotating direction:	opposite
	Coolant:	IC/Ext
	Pressure max [bar]:	140
	Please note:	180° reversible
	Offset [mm]:	34,5
<b>8 019 44 138</b>	<b>Axial drilling and milling head ER 16 AX UT</b>	
	Weight [kg]:	3.120
	Notation:	offset; 180° reversible
	Tool drive:	Flat (~DIN 1809)
	Shank size [mm]:	44.00
	Shank type:	BMT
	Tool adaption:	ER 16 A - u-tec
	Gear ratio [i]:	1:2




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Part-#	Name	
	Torque max [Nm]:	16
	Rotation max [1/min]:	20000
	Rotating direction:	opposite
	Coolant:	EXT
	Please note:	Umsetzbarkeit check !
	Offset [mm]:	34,5
<b>8 030 44 065</b>	<b>Radial drilling and milling head ER 16 AX UT</b>	
	Weight [kg]:	4.360
	Notation:	180° reversible
	Tool drive:	Flat (~DIN 1809)
	Shank size [mm]:	44.00
	Shank type:	BMT
	Tool adaption:	ER 16 A - u-tec
	Gear ratio [i]:	1:2
	Torque max [Nm]:	8
	Rotation max [1/min]:	12000
	Rotating direction:	same
	Coolant:	EXT
	Please note:	stronger bearing
	Center distance [mm]:	68,5
<b>8 030 44 067</b>	<b>Angle-mill- and drill holder ER 20 AX UT</b>	
	Weight [kg]:	4.000
	Notation:	180° reversible
	Tool drive:	Flat (~DIN 1809)
	Shank size [mm]:	44.00
	Shank type:	BMT
	Tool adaption:	ER 20 A - u-tec
	Gear ratio [i]:	1:1
	Torque max [Nm]:	16
	Rotation max [1/min]:	8000
	Rotating direction:	opposite
	Coolant:	EXT
	Please note:	Combi bearing
	Center distance [mm]:	75
<b>8 030 44 068</b>	<b>Angle-mill- and drill holder ER 20 AX UT IC</b>	
	Weight [kg]:	4.300
	Notation:	180° reversible
	Tool drive:	Flat (~DIN 1809)
	Shank size [mm]:	44.00
	Shank type:	BMT
	Tool adaption:	ER 20 A - u-tec
	Gear ratio [i]:	1:1
	Torque max [Nm]:	16
	Rotation max [1/min]:	6000
	Rotating direction:	opposite
	Coolant:	IC/Ext
	Pressure max [bar]:	140
	Please note:	Combi bearing
	Center distance [mm]:	75


Part-#	Name		
	<b>8 030 44 069</b>	<b>Radial drilling and milling head ER 20 AX UT</b>	
		Weight [kg]:	4.520
		Notation:	180° reversible
		Tool drive:	Flat (~DIN 1809)
		Shank size [mm]:	44.00
		Shank type:	BMT
		Tool adaption:	ER 20 A - u-tec
		Gear ratio [i]:	1:2
		Torque max [Nm]:	8
		Rotation max [1/min]:	12000
		Rotating direction:	same
		Coolant:	EXT
		Please note:	stronger bearing
	Center distance [mm]:	68,5	
	<b>8 030 44 070</b>	<b>Radial drilling and milling head ER 20 AX UT IC</b>	
		Weight [kg]:	4.570
		Notation:	180° reversible
		Tool drive:	Flat (~DIN 1809)
		Shank size [mm]:	44.00
		Shank type:	BMT
		Tool adaption:	ER 20 A - u-tec
		Gear ratio [i]:	1:2
		Torque max [Nm]:	8
		Rotation max [1/min]:	12000
		Rotating direction:	same
		Coolant:	IC/Ext
		Pressure max [bar]:	140
	Please note:	stronger bearing	
	Center distance [mm]:	68,5	
	<b>8 030 44 083</b>	<b>Radial drilling and milling head ER 16 AX UT</b>	
		Weight [kg]:	4.580
		Notation:	180° reversible
		Tool drive:	Flat (~DIN 1809)
		Shank size [mm]:	44.00
		Shank type:	BMT
		Tool adaption:	ER 16 A - u-tec
		Gear ratio [i]:	1:2
		Torque max [Nm]:	8
		Rotation max [1/min]:	12000
		Rotating direction:	same
		Coolant:	EXT
		Please note:	stronger bearing; Umsetzbarkeit check !
	Center distance [mm]:	75	
	<b>8 030 44 172</b>	<b>Radial drilling and milling head ER 16 AX UT</b>	
		Weight [kg]:	4.360
		Notation:	180° reversible
		Tool drive:	Flat (~DIN 1809)
		Shank size [mm]:	44.00
		Shank type:	BMT
		Tool adaption:	ER 16 A - u-tec
		Gear ratio [i]:	1:3
		Torque max [Nm]:	8
		Rotation max [1/min]:	18000
		Rotating direction:	same
		Coolant:	EXT



Part-#	Name	
	Center distance [mm]:	68,5
<b>8 030 44 187</b>	<b>Radial drilling and milling head ER 16 AX UT IC</b>	
	Weight [kg]:	4.710
	Notation:	180° reversible
	Tool drive:	Flat (~DIN 1809)
	Shank size [mm]:	44.00
	Shank type:	BMT
	Tool adaption:	ER 16 A - u-tec
	Gear ratio [i]:	1:2
	Torque max [Nm]:	8
	Rotation max [1/min]:	12000
	Rotating direction:	same
	Coolant:	IC/Ext
	Pressure max [bar]:	140
	Please note:	stronger bearing; Umsetzbarkeit check !
	Center distance [mm]:	75
<b>8 030 44 208</b>	<b>Radial drilling and milling head ER 20 AX UT</b>	
	Weight [kg]:	4.050
	Notation:	180° reversible
	Tool drive:	Flat (~DIN 1809)
	Shank size [mm]:	44.00
	Shank type:	BMT
	Tool adaption:	ER 20 A - u-tec
	Gear ratio [i]:	1:1
	Torque max [Nm]:	16
	Rotation max [1/min]:	6000
	Rotating direction:	opposite
	Coolant:	EXT
	Please note:	Combi bearing
	Center distance [mm]:	80
<b>8 030 44 214</b>	<b>Radial drilling and milling head ER 20 AX UT</b>	
	Weight [kg]:	4.750
	Notation:	180° reversible
	Tool drive:	Flat (~DIN 1809)
	Shank size [mm]:	44.00
	Shank type:	BMT
	Tool adaption:	ER 20 A - u-tec
	Gear ratio [i]:	1:2
	Torque max [Nm]:	8
	Rotation max [1/min]:	12000
	Rotating direction:	same
	Coolant:	EXT
	Please note:	stronger bearing; check applicability !
	Center distance [mm]:	75
<b>8 030 44 216</b>	<b>Radial drilling and milling head ER 20 AX UT</b>	
	Weight [kg]:	4.010
	Notation:	180° reversible
	Tool drive:	Flat (~DIN 1809)
	Shank size [mm]:	44.00
	Shank type:	BMT
	Tool adaption:	ER 20 A - u-tec
	Gear ratio [i]:	1:1
	Torque max [Nm]:	16

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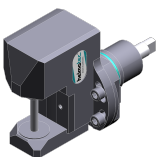
Part-#	Name	
	Rotation max [1/min]:	8000
	Rotating direction:	opposite
	Coolant:	EXT
	Center distance [mm]:	80
<b>8 030 44 229</b>	<b>Radial drilling and milling head ER 20 AX UT</b>	
	Weight [kg]:	4.780
	Notation:	180° reversible
	Tool drive:	Flat (~DIN 1809)
	Shank size [mm]:	44.00
	Shank type:	BMT
	Tool adaption:	ER 20 A - u-tec
	Gear ratio [i]:	1:1
	Torque max [Nm]:	32
	Rotation max [1/min]:	12000
	Rotating direction:	opposite
	Coolant:	EXT
	Center distance [mm]:	75
<b>8 030 44 230</b>	<b>Radial drilling and milling head ER 20 AX UT IC</b>	
	Notation:	180° reversible
	Tool drive:	Flat (~DIN 1809)
	Shank size [mm]:	44.00
	Shank type:	BMT
	Tool adaption:	ER 20 A - u-tec
	Gear ratio [i]:	1:1
	Torque max [Nm]:	32
	Rotation max [1/min]:	12000
	Rotating direction:	opposite
	Coolant:	IC/Ext
	Pressure max [bar]:	140
	Center distance [mm]:	75
<b>8 030 44 239</b>	<b>Angle-mill- and drill holder ER 20 AX UT IC</b>	
	Weight [kg]:	4.900
	Notation:	180° reversible
	Tool drive:	Flat (~DIN 1809)
	Shank size [mm]:	44.00
	Shank type:	BMT
	Tool adaption:	ER 20 A - u-tec
	Gear ratio [i]:	1:1
	Torque max [Nm]:	32
	Rotation max [1/min]:	8000
	Rotating direction:	opposite
	Coolant:	IC/Ext
	Pressure max [bar]:	140
	Please note:	Combi bearing
	Center distance [mm]:	75
<b>8 030 44 240</b>	<b>Angle-mill- and drill holder ER 20 AX UT</b>	
	Weight [kg]:	4.300
	Notation:	180° reversible
	Tool drive:	Flat (~DIN 1809)
	Shank size [mm]:	44.00
	Shank type:	BMT
	Tool adaption:	ER 20 A - u-tec

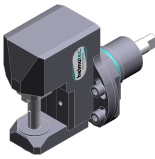
Part-#	Name	
	Gear ratio [i]:	1:1
	Torque max [Nm]:	32
	Rotation max [1/min]:	8000
	Rotating direction:	opposite
	Coolant:	EXT
	Please note:	Combi bearing
	Center distance [mm]:	75
<b>8 030 45 158</b>	<b>Radial drilling and milling head ER 25 AX UT</b>	
	Weight [kg]:	4.520
	Notation:	180° reversible
	Tool drive:	Flat (~DIN 1809)
	Shank size [mm]:	44.00
	Shank type:	BMT
	Tool adaption:	ER 25 A - u-tec
	Gear ratio [i]:	2:1
	Torque max [Nm]:	32
	Rotation max [1/min]:	3000
	Rotating direction:	opposite
	Coolant:	EXT
	Please note:	Combi bearing
	Center distance [mm]:	72
<b>8 030 45 199</b>	<b>Angle-mill- and drill holder ER 25 AX UT IC</b>	
	Weight [kg]:	4.380
	Notation:	180° reversible
	Tool drive:	Flat (~DIN 1809)
	Shank size [mm]:	44.00
	Shank type:	BMT
	Tool adaption:	ER 25 A - u-tec
	Gear ratio [i]:	1:1
	Torque max [Nm]:	16
	Rotation max [1/min]:	6000
	Rotating direction:	opposite
	Coolant:	IC/Ext
	Pressure max [bar]:	140
	Please note:	Combi bearing
	Center distance [mm]:	75
<b>8 030 45 218</b>	<b>Radial drilling and milling head ER 25 AX UT IC</b>	
	Weight [kg]:	5.040
	Notation:	180° reversible
	Version:	Special
	Tool drive:	Flat (~DIN 1809)
	Shank size [mm]:	44.00
	Shank type:	BMT
	Tool adaption:	ER 25 A - u-tec
	Gear ratio [i]:	2:1
	Torque max [Nm]:	32
	Rotation max [1/min]:	3000
	Rotating direction:	opposite
	Coolant:	IC/Ext
	Pressure max [bar]:	140
	Please note:	Combi bearing
	Center distance [mm]:	72

Part-#	Name	
<b>8 030 45 326</b>	<b>Radial drilling and milling head C 3 IC</b>	
	Notation:	180° reversible
	Tool drive:	Flat (~DIN 1809)
	Shank size [mm]:	44.00
	Shank type:	BMT
	Tool adaption:	heimatec Capto(TM) C 3
	Gear ratio [i]:	1:1
	Torque max [Nm]:	25
	Rotation max [1/min]:	8000
	Rotating direction:	opposite
	Coolant:	IC/Ext
	Pressure max [bar]:	140
	Please note:	Check applicability; note tool length!
	Center distance [mm]:	58
<b>8 030 45 328</b>	<b>Radial drilling and milling head ER 25 AX UT IC</b>	
	Weight [kg]:	4.537
	Notation:	180° reversible
	Tool drive:	Flat (~DIN 1809)
	Shank size [mm]:	44.00
	Shank type:	BMT
	Tool adaption:	ER 25 A - u-tec
	Gear ratio [i]:	1:1
	Torque max [Nm]:	16
	Rotation max [1/min]:	8000
	Rotating direction:	opposite
	Coolant:	IC/Ext
	Pressure max [bar]:	140
	Please note:	stronger bearing
	Center distance [mm]:	75
<b>8 030 45 583</b>	<b>Radial drilling and milling head ER 25 AX UT</b>	
	Weight [kg]:	4.280
	Notation:	180° reversible
	Tool drive:	Flat (~DIN 1809)
	Shank size [mm]:	44.00
	Shank type:	BMT
	Tool adaption:	ER 25 A - u-tec
	Gear ratio [i]:	1:1
	Torque max [Nm]:	32
	Rotation max [1/min]:	12000
	Rotating direction:	opposite
	Coolant:	EXT
	Center distance [mm]:	75
<b>8 030 45 584</b>	<b>Radial drilling and milling head ER 25 AX UT IC</b>	
	Weight [kg]:	4.760
	Notation:	180° reversible
	Tool drive:	Flat (~DIN 1809)
	Shank size [mm]:	44.00
	Shank type:	BMT
	Tool adaption:	ER 25 A - u-tec
	Gear ratio [i]:	1:1
	Torque max [Nm]:	32
	Rotation max [1/min]:	12000
	Rotating direction:	opposite
	Coolant:	IC/Ext

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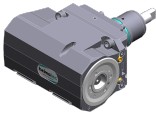
Part-#	Name	
	Pressure max [bar]:	140
	Center distance [mm]:	75
<b>8 030 46 337</b>	<b>Radial drilling and milling head HT 4 IC</b>	
	Weight [kg]:	4.310
	Notation:	180° reversible
	Tool drive:	Flat (~DIN 1809)
	Shank size [mm]:	44.00
	Shank type:	BMT
	Tool adaption:	HT 4
	Gear ratio [i]:	1:1
	Torque max [Nm]:	16
	Rotation max [1/min]:	6000
	Rotating direction:	opposite
	Coolant:	IC/Ext
	Pressure max [bar]:	140
	Please note:	Combi bearing
	Center distance [mm]:	75
<b>8 031 44 046</b>	<b>Radial polygon head arbor 16</b>	
	Weight [kg]:	5.000
	Notation:	180° reversible
	Tool drive:	Flat (~DIN 1809)
	Shank size [mm]:	44.00
	Shank type:	BMT
	Tool adaption:	Polygon arbor 16
	Gear ratio [i]:	2:1
	Torque max [Nm]:	32
	Rotation max [1/min]:	3000
	Rotating direction:	opposite
	Coolant:	EXT
	Please note:	Combi bearing
	Center distance [mm]:	72
<b>8 031 45 040</b>	<b>Radial milling head universal arbor 22</b>	
	Weight [kg]:	4.730
	Notation:	180° reversible
	Tool drive:	Flat (~DIN 1809)
	Shank size [mm]:	44.00
	Shank type:	BMT
	Tool adaption:	Universal arbor 22
	Gear ratio [i]:	2:1
	Torque max [Nm]:	32
	Rotation max [1/min]:	3000
	Rotating direction:	opposite
	Coolant:	EXT
	Please note:	Combi bearing
	Center distance [mm]:	72
<b>8 037 41 000</b>	<b>Radial disk mill head arbor 8</b>	
	Tool drive:	Flat (~DIN 1809)
	Shank size [mm]:	44.00
	Shank type:	BMT
	Tool adaption:	Arbor 8
	Gear ratio [i]:	2:1
	Torque max [Nm]:	32
	Rotation max [1/min]:	4000



Part-#	Name	
	Rotating direction:	opposite
	Coolant:	no
	Center distance [mm]:	78
<b>8 037 42 000</b>	<b>Radial disk mill head arbor 10</b>	
	Weight [kg]:	5.020
	Tool drive:	Flat (~DIN 1809)
	Shank size [mm]:	44.00
	Shank type:	BMT
	Tool adaption:	Arbor 10
	Gear ratio [i]:	2:1
	Torque max [Nm]:	32
	Rotation max [1/min]:	4000
	Rotating direction:	opposite
	Coolant:	no
	Center distance [mm]:	78
<b>8 037 43 003</b>	<b>Radial disk mill head arbor 13</b>	
	Tool drive:	Flat (~DIN 1809)
	Shank size [mm]:	44.00
	Shank type:	BMT
	Tool adaption:	Arbor 13
	Gear ratio [i]:	2:1
	Torque max [Nm]:	32
	Rotation max [1/min]:	4000
	Rotating direction:	opposite
	Coolant:	no
	Center distance [mm]:	78
<b>8 037 44 012</b>	<b>Radial disk mill head arbor 16</b>	
	Weight [kg]:	5.300
	Tool drive:	Flat (~DIN 1809)
	Shank size [mm]:	44.00
	Shank type:	BMT
	Tool adaption:	Arbor 16
	Gear ratio [i]:	2:1
	Torque max [Nm]:	32
	Rotation max [1/min]:	4000
	Rotating direction:	opposite
	Coolant:	no
	Center distance [mm]:	78
<b>8 039 44 058</b>	<b>Radial drilling and milling head ER 16 AX UT</b>	
	Weight [kg]:	4.690
	Notation:	180° reversible
	Employment for:	Main- and sub spindle
	Version:	double spindle
	Tool drive:	Flat (~DIN 1809)
	Shank size [mm]:	44.00
	Shank type:	BMT
	Tool adaption:	ER 16 A - u-tec
	Gear ratio [i]:	1:2
	Torque max [Nm]:	8
	Rotation max [1/min]:	16000
	Rotating direction:	same/opposite
	Coolant:	EXT
	Please note:	stronger bearing



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Part-#	Name	
	Center distance [mm]:	68,5
<b>8 039 44 059</b>	<b>Radial drilling and milling head ER 16 AX UT</b>	
	Weight [kg]:	4.660
	Notation:	180° reversible
	Employment for:	Main- and sub spindle
	Version:	double spindle
	Tool drive:	Flat (~DIN 1809)
	Shank size [mm]:	44.00
	Shank type:	BMT
	Tool adaption:	ER 16 A - u-tec
	Gear ratio [i]:	1:3
	Torque max [Nm]:	6
	Rotation max [1/min]:	20000
	Rotating direction:	same/opposite
	Coolant:	EXT
	Please note:	stronger bearing
	Center distance [mm]:	68,5
<b>8 039 45 149</b>	<b>Radial drilling and milling head ER 25 AX UT</b>	
	Weight [kg]:	5.220
	Notation:	180° reversible
	Version:	double spindle
	Tool drive:	Flat (~DIN 1809)
	Shank size [mm]:	44.00
	Shank type:	BMT
	Tool adaption:	ER 25 A - u-tec
	Gear ratio [i]:	1:1
	Torque max [Nm]:	32
	Rotation max [1/min]:	12000
	Rotating direction:	same/opposite
	Coolant:	EXT
	Please note:	stronger bearing
	Center distance [mm]:	75
<b>8 039 45 150</b>	<b>Radial drilling and milling head C 3</b>	
	Weight [kg]:	9.080
	Notation:	180° reversible
	Employment for:	Main- and sub spindle
	Version:	double spindle
	Tool drive:	Flat (~DIN 1809)
	Shank size [mm]:	44.00
	Shank type:	BMT
	Tool adaption:	heimatec Capto(TM) C 3
	Gear ratio [i]:	1:1
	Torque max [Nm]:	32
	Rotation max [1/min]:	8000
	Rotating direction:	same/opposite
	Coolant:	EXT
	Please note:	Check applicability; note tool length!
	Center distance [mm]:	75


Part-#	Name	
<b>8 040 43 003</b>	<b>Universal head ± 90° adjustable ER 11 AX</b>	
	Weight [kg]:	3.550
	Tool drive:	Flat (~DIN 1809)
	Shank size [mm]:	44.00
	Shank type:	BMT
	Tool adaption:	ER 11 A
	Gear ratio [i]:	1:1
	Torque max [Nm]:	10
	Rotation max [1/min]:	6000
	Rotating direction:	same
	Coolant:	EXT
	Center distance [mm]:	67
<b>8 040 44 031</b>	<b>Universal head ± 90° adjustable ER 16</b>	
	Weight [kg]:	3.580
	Tool drive:	Flat (~DIN 1809)
	Shank size [mm]:	44.00
	Shank type:	BMT
	Tool adaption:	ER 16
	Gear ratio [i]:	1:1
	Torque max [Nm]:	10
	Rotation max [1/min]:	6000
	Rotating direction:	same
	Coolant:	EXT
	Center distance [mm]:	67
<b>8 040 44 110</b>	<b>Universal head ± 90° adjustable ER 16 AX UT</b>	
	Weight [kg]:	3.800
	Tool drive:	Flat (~DIN 1809)
	Shank size [mm]:	44.00
	Shank type:	BMT
	Tool adaption:	ER 16 A - u-tec
	Gear ratio [i]:	1:1
	Torque max [Nm]:	16
	Rotation max [1/min]:	12000
	Rotating direction:	same
	Coolant:	EXT
	Center distance [mm]:	58
<b>8 040 44 111</b>	<b>Universal head ± 90° adjustable ER 16 AX UT IC</b>	
	Weight [kg]:	3.040
	Tool drive:	Flat (~DIN 1809)
	Shank size [mm]:	44.00
	Shank type:	BMT
	Tool adaption:	ER 16 A - u-tec
	Gear ratio [i]:	1:1
	Torque max [Nm]:	16
	Rotation max [1/min]:	12000
	Rotating direction:	same
	Coolant:	IC/Ext
	Pressure max [bar]:	140
	Center distance [mm]:	58

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Part-#	Name	
<b>8 040 44 116</b>	<b>Universal head ± 90° adjustable ER 16 AX UT</b>	
	Tool drive:	Flat (~DIN 1809)
	Shank size [mm]:	44.00
	Shank type:	BMT
	Tool adaption:	ER 16 A - u-tec
	Gear ratio [i]:	1:2
	Torque max [Nm]:	8
	Rotation max [1/min]:	20000
	Rotating direction:	same
	Coolant:	EXT
	Pressure max [bar]:	140
	Center distance [mm]:	58
<b>8 040 44 117</b>	<b>Universal head ± 90° adjustable ER 16 AX UT IC</b>	
	Tool drive:	Flat (~DIN 1809)
	Shank size [mm]:	44.00
	Shank type:	BMT
	Tool adaption:	ER 16 A - u-tec
	Gear ratio [i]:	1:2
	Torque max [Nm]:	8
	Rotation max [1/min]:	20000
	Rotating direction:	same
	Coolant:	IC/Ext
	Pressure max [bar]:	140
	Center distance [mm]:	58
<b>8 043 43 001</b>	<b>Universal head +155° adj. ER11 AX</b>	
	Weight [kg]:	4.200
	Notation:	offset; 180° reversible
	Tool drive:	Flat (~DIN 1809)
	Shank size [mm]:	44.00
	Shank type:	BMT
	Tool adaption:	ER 11 A
	Gear ratio [i]:	1:2
	Torque max [Nm]:	5
	Rotation max [1/min]:	12000
	Rotating direction:	opposite
	Coolant:	EXT
	Center distance [mm]:	25
	Offset [mm]:	74
<b>8 050 44 010</b>	<b>Multispindle drilling head ER 16 AX UT</b>	
	Notation:	offset
	Version:	3-spindles
	Tool drive:	Flat (~DIN 1809)
	Shank size [mm]:	44.00
	Shank type:	BMT
	Tool adaption:	ER 16 A - u-tec
	Gear ratio [i]:	1:1
	Torque max [Nm]:	25
	Rotation max [1/min]:	6000
	Rotating direction:	same
	Coolant:	EXT
	Please note:	2xER 16 A UT offset, 1x centered

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Part-#	Name	
<b>8 050 44 011</b>	<b>Multispindle drilling head ER 16 AX UT</b>	
	Weight [kg]:	3.810
	Notation:	offset; 180° reversible
	Version:	2-spindles in short version
	Tool drive:	Flat (~DIN 1809)
	Shank size [mm]:	44.00
	Shank type:	BMT
	Tool adaption:	ER 16 A - u-tec
	Gear ratio [i]:	1:1
	Torque max [Nm]:	20
	Rotation max [1/min]:	6000
	Rotating direction:	same
	Coolant:	EXT
	Offset [mm]:	50
<b>8 050 44 018</b>	<b>Multispindle drilling head ER 16 AX UT</b>	
	Weight [kg]:	4.830
	Notation:	offset; 180° reversible
	Version:	2-spindles
	Tool drive:	Flat (~DIN 1809)
	Shank size [mm]:	44.00
	Shank type:	BMT
	Tool adaption:	ER 16 A - u-tec
	Gear ratio [i]:	1:2
	Torque max [Nm]:	8
	Rotation max [1/min]:	12000
	Rotating direction:	same
	Coolant:	EXT
	Offset [mm]:	50
<b>8 050 44 019</b>	<b>Multispindle drilling head ER 16 AX UT</b>	
	Notation:	offset; 180° reversible
	Version:	2-spindles
	Tool drive:	Flat (~DIN 1809)
	Shank size [mm]:	44.00
	Shank type:	BMT
	Tool adaption:	ER 16 A - u-tec
	Gear ratio [i]:	1:1
	Torque max [Nm]:	25
	Rotation max [1/min]:	6000
	Rotating direction:	same
	Coolant:	EXT
	Offset [mm]:	50
<b>8 050 44 021</b>	<b>Multispindle drilling head ER 16 AX UT</b>	
	Weight [kg]:	3.770
	Notation:	offset; 180° reversible
	Version:	2-spindles in short version
	Tool drive:	Flat (~DIN 1809)
	Shank size [mm]:	44.00
	Shank type:	BMT
	Tool adaption:	ER 16 A - u-tec
	Gear ratio [i]:	1:2
	Torque max [Nm]:	8
	Rotation max [1/min]:	12000
	Rotating direction:	same
	Coolant:	EXT
	Offset [mm]:	50

Part-#	Name	
<b>8 050 44 024</b>	<b>Multispindle drilling head ER 16 AX UT IC</b>	
	Weight [kg]:	4.840
	Notation:	offset; 180° reversible
	Version:	2-spindles
	Tool drive:	Flat (~DIN 1809)
	Shank size [mm]:	44.00
	Shank type:	BMT
	Tool adaption:	ER 16 A - u-tec
	Gear ratio [i]:	1:2
	Torque max [Nm]:	8
	Rotation max [1/min]:	12000
	Rotating direction:	same
	Coolant:	IC/Ext
	Pressure max [bar]:	25
	Offset [mm]:	50
<b>8 050 44 069</b>	<b>Multispindle drilling head ER 16 AX UT</b>	
	Weight [kg]:	4.060
	Notation:	offset; 180° reversible
	Version:	2-spindles
	Tool drive:	Flat (~DIN 1809)
	Shank size [mm]:	44.00
	Shank type:	BMT
	Tool adaption:	ER 16 A - u-tec
	Gear ratio [i]:	1:1
	Torque max [Nm]:	32/Sp.
	Rotation max [1/min]:	12000
	Rotating direction:	same
	Coolant:	EXT
	Offset [mm]:	50
<b>8 050 44 070</b>	<b>Multispindle drilling head ER 16 AX UT IC</b>	
	Weight [kg]:	4.150
	Notation:	offset; 180° reversible
	Tool drive:	Flat (~DIN 1809)
	Shank size [mm]:	44.00
	Shank type:	BMT
	Tool adaption:	ER 16 A - u-tec
	Gear ratio [i]:	1:1
	Torque max [Nm]:	32/Sp.
	Rotation max [1/min]:	12000
	Rotating direction:	same
	Coolant:	IC/Ext
	Pressure max [bar]:	140
	Offset [mm]:	50
<b>8 050 44 071</b>	<b>Multispindle drilling head ER 20 AX UT</b>	
	Weight [kg]:	4.160
	Notation:	offset; 180° reversible
	Tool drive:	Flat (~DIN 1809)
	Shank size [mm]:	44.00
	Shank type:	BMT
	Tool adaption:	ER 20 A - u-tec
	Gear ratio [i]:	1:1
	Torque max [Nm]:	32/Sp.
	Rotation max [1/min]:	12000
	Rotating direction:	same

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Part-#	Name	
	Coolant:	EXT
	Offset [mm]:	50
<b>8 053 44 068</b>	<b>Multispindle radial head ER 16 AX UT</b>	
	Notation:	180° reversible
	Version:	2-spindles
	Tool drive:	Flat (~DIN 1809)
	Shank size [mm]:	44.00
	Shank type:	BMT
	Tool adaption:	ER 16 A - u-tec
	Gear ratio [i]:	1:1
	Torque max [Nm]:	32/Sp
	Rotation max [1/min]:	12000
	Rotating direction:	same
	Coolant:	EXT
	Pressure max [bar]:	140
	Center distance [mm]:	60
<b>8 053 44 070</b>	<b>Multispindle radial head ER 16 AX UT</b>	
	Weight [kg]:	5.600
	Notation:	180° reversible
	Version:	2-spindles
	Tool drive:	Flat (~DIN 1809)
	Shank size [mm]:	44.00
	Shank type:	BMT
	Tool adaption:	ER 16 A - u-tec
	Gear ratio [i]:	1:2
	Torque max [Nm]:	16/Sp
	Rotation max [1/min]:	24000
	Rotating direction:	same
	Coolant:	EXT
	Center distance [mm]:	60
<b>8 053 44 071</b>	<b>Multispindle radial head ER 16 AX UTIK</b>	
	Weight [kg]:	5.600
	Notation:	180° reversible
	Version:	2-spindles
	Tool drive:	Flat (~DIN 1809)
	Shank size [mm]:	44.00
	Shank type:	BMT
	Tool adaption:	ER 16 A - u-tec
	Gear ratio [i]:	1:2
	Torque max [Nm]:	16/Sp
	Rotation max [1/min]:	24000
	Rotating direction:	same
	Coolant:	IC/Ext
	Pressure max [bar]:	140
	Center distance [mm]:	60
<b>8 068 44 000</b>	<b>Radial whirling unit HW 46</b>	
	Weight [kg]:	4.960
	Notation:	180° reversible
	Tool drive:	Flat (~DIN 1809)
	Shank size [mm]:	44.00
	Shank type:	BMT
	Tool adaption:	HW 46

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## NTJ-100 - unterer Revolver

Part-#	Name	
	Gear ratio [i]:	1:1
	Torque max [Nm]:	16
	Rotation max [1/min]:	8000
	Rotating direction:	same
	Coolant:	no
	Please note:	without cutting inserts carrier
	Center distance [mm]:	63
<b>8 200 03 011</b>	<b>Cover plate</b>	
	Weight [kg]:	0.214
	Shank type:	BMT
<b>8 202 10 005</b>	<b>Basic holder longitudinal seat FN 12</b>	
	Weight [kg]:	0.720
	Notation:	180° reversible
	Shank type:	BMT
	Machine adaption:	Centering key b 20
	Tool adaption:	Interface FN 12
	Coolant:	EXT
<b>8 209 48 001</b>	<b>Adapter for sensor Renishaw RLP</b>	
	Weight [kg]:	0.980
	Notation:	180° reversible
	Shank size [mm]:	44.00
	Shank type:	BMT
	Coolant:	no
<b>8 224 11 012</b>	<b>Cut-off holder sq. 20</b>	
	Weight [kg]:	0.920
	Employment for:	right cutting tools
	Version:	Edge on side of turret
	Shank type:	BMT
	Machine adaption:	Centering key b 20
	Tool adaption:	Sq. 20
	Coolant:	EXT
<b>8 224 11 013</b>	<b>Cut-off holder sq. 20</b>	
	Weight [kg]:	0.890
	Employment for:	left cutting tools
	Version:	Edge on center of turret
	Shank type:	BMT
	Machine adaption:	Centering key b 20
	Tool adaption:	Sq. 20
	Coolant:	EXT
<b>8 224 11 014</b>	<b>Turning holder sq. 3/4"</b>	
	Employment for:	left cutting tools
	Version:	Edge on center of turret
	Shank type:	BMT
	Machine adaption:	Centering key b 20
	Tool adaption:	Sq. 3/4" (19,05mm)
	Coolant:	EXT



Part-#	Name	
<b>8 224 11 015</b>	<b>Cut-off holder sq. 3/4"</b>	
	Weight [kg]:	0.900
	Employment for:	right cutting tools
	Version:	Edge on side of turret
	Shank type:	BMT
	Machine adaption:	Centering key b 20
	Tool adaption:	Sq. 3/4" (19,05mm)
	Coolant:	EXT
<b>8 224 12 008</b>	<b>Cut-off holder SH 26</b>	
	Weight [kg]:	1.010
	Employment for:	Cut-off tool 26
	Version:	Clampshaft on turret center
	Shank type:	BMT
	Machine adaption:	Centering key b 20
	Tool adaption:	Clampshaft SH 26
	Coolant:	EXT
<b>8 224 12 009</b>	<b>Cut-off holder SH 26</b>	
	Weight [kg]:	1.120
	Employment for:	for cut-off tool 26
	Version:	Clampshaft on turret side
	Shank type:	BMT
	Machine adaption:	Centering key b 20
	Tool adaption:	Clampshaft SH 26
	Coolant:	EXT
<b>8 224 13 006</b>	<b>Cut-off holder SH 32</b>	
	Weight [kg]:	0.800
	Employment for:	Cut-off tool 32
	Version:	Clampshaft on turret center
	Shank type:	BMT
	Machine adaption:	Centering key b 20
	Tool adaption:	Clampshaft SH 32
	Coolant:	EXT
<b>8 224 14 007</b>	<b>Universal turning holder sq. 20</b>	
	Weight [kg]:	2.030
	Notation:	180° reversible
	Shank type:	BMT
	Machine adaption:	Centering key b 20
	Tool adaption:	Sq. 20
		Sq. 20
	Coolant:	EXT
<b>8 224 14 008</b>	<b>Universal turning holder sq. 3/4"</b>	
	Weight [kg]:	1.970
	Notation:	180° reversible
	Shank type:	BMT
	Machine adaption:	Centering key b 20
	Tool adaption:	Sq. 3/4" (19,05mm)
		Sq. 3/4" (19,05mm)
	Coolant:	EXT

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Part-#	Name	
<b>8 224 14 017</b>	<b>Universal turning holder sq. 20</b>	
	Notation:	180° reversible
	Version:	short
	Shank type:	BMT
	Machine adaption:	Centering key b 20
	Tool adaption:	Sq. 20
		Sq. 20
	Coolant:	EXT
<b>8 224 14 024</b>	<b>Universal turning holder sq. 20 IC</b>	
	Weight [kg]:	1.970
	Notation:	180° reversible
	Shank type:	BMT
	Machine adaption:	Centering key b 20
	Tool adaption:	Sq. 20
		Sq. 20
	Coolant:	IC/Ext
	Pressure max [bar]:	100
	Please note:	Key rail
<b>8 224 14 030</b>	<b>Universal turning holder sq. 3/4" IC</b>	
	Weight [kg]:	1.700
	Notation:	180° reversible
	Shank type:	BMT
	Machine adaption:	Centering key b 20
	Tool adaption:	Sq. 3/4" (19,05mm)
		Sq. 3/4" (19,05mm)
	Coolant:	IC/Ext
	Pressure max [bar]:	100
	Please note:	Key rail
<b>8 225 11 006</b>	<b>Cut-off holder sq. 20</b>	
	Weight [kg]:	0.900
	Employment for:	left cutting tools
	Version:	Edge on side of turret
	Shank type:	BMT
	Machine adaption:	Centering key b 20
	Tool adaption:	Sq. 20
	Coolant:	EXT
<b>8 225 11 007</b>	<b>Cut-off holder sq. 20</b>	
	Weight [kg]:	0.900
	Employment for:	right cutting tools
	Version:	Edge on center of turret
	Shank type:	BMT
	Machine adaption:	Centering key b 20
	Tool adaption:	Sq. 20
	Coolant:	EXT
<b>8 225 11 008</b>	<b>Cut-off holder sq. 3/4"</b>	
	Weight [kg]:	0.910
	Employment for:	left cutting tools
	Version:	Edge on side of turret
	Shank type:	BMT
	Machine adaption:	Centering key b 20
	Tool adaption:	Sq. 3/4" (19,05mm)




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Part-#	Name	
	Coolant:	EXT
<b>8 229 15 006</b>	<b>Tool holder C 3 IC</b>	
	Weight [kg]:	1.880
	Notation:	180° reversible
	Version:	right
	Shank type:	BMT
	Machine adaption:	Centering key b 20
	Tool adaption:	heimatec Capto(TM) C 3
	Coolant:	IC
	Please note:	Check applicability, tool length check!
	Offset [mm]:	45
<b>8 240 15 007</b>	<b>Insert drill holder 16 IC</b>	
	Weight [kg]:	4.540
	Notation:	180° reversible
	Shank type:	BMT
	Tool adaption:	Whistle-Notch (DIN 1835 E) 16
	Coolant:	IC
	Center distance [mm]:	75
<b>8 240 15 024</b>	<b>Collet chuck holder ER 25 AX UT</b>	
	Notation:	180° reversible
	Shank type:	BMT
	Machine adaption:	Centering key b 20
	Tool adaption:	ER 25 A - u-tec
	Coolant:	IC/Ext
	Center distance [mm]:	75
<b>8 240 15 042</b>	<b>Tool holder C 3 IC</b>	
	Weight [kg]:	2.300
	Notation:	180° reversible
	Version:	offset; right
	Shank type:	BMT
	Machine adaption:	Centering key b 20
	Tool adaption:	heimatec Capto(TM) C 3
	Coolant:	IC
	Please note:	Check applicability; note tool length!
	Center distance [mm]:	70
<b>8 240 15 043</b>	<b>Tool holder C 3 IC</b>	
	Weight [kg]:	2.470
	Notation:	180° reversible
	Version:	right
	Shank type:	BMT
	Machine adaption:	Centering key b 20
	Tool adaption:	heimatec Capto(TM) C 3
	Coolant:	IC
	Please note:	Check applicability; note tool length
	Center distance [mm]:	70

Part-#	Name	
<b>8 240 16 007</b>	<b>Boring bar holder Ø 20</b>	
	Weight [kg]:	2.130
	Notation:	180° reversible
	Shank type:	BMT
	Machine adaption:	Centering key b 20
	Tool adaption:	Ø 20
	Coolant:	IC/Ext
	Center distance [mm]:	75
<b>8 240 16 068</b>	<b>Tool holder C 4 IC</b>	
	Notation:	180° reversible
	Version:	offset; right
	Shank type:	BMT
	Machine adaption:	Centering key b 20
	Tool adaption:	heimatec Capto(TM) C 4
	Coolant:	IC
	Pressure max [bar]:	100
	Please note:	Check applicability; note tool length!
	Center distance [mm]:	75
<b>8 240 17 020</b>	<b>Boring bar holder Ø 25</b>	
	Weight [kg]:	2.050
	Notation:	180° reversible
	Shank type:	BMT
	Machine adaption:	Centering key b 20
	Tool adaption:	Ø 25
	Coolant:	IC/Ext
	Center distance [mm]:	75
<b>8 240 17 029</b>	<b>Boring bar holder Ø 1"</b>	
	Weight [kg]:	2.050
	Notation:	180° reversible
	Shank type:	BMT
	Machine adaption:	Centering key b 20
	Tool adaption:	Ø 1" (25,4mm)
	Coolant:	IC/Ext
	Center distance [mm]:	75
<b>8 240 17 038</b>	<b>Boring bar holder Ø 1"</b>	
	Weight [kg]:	2.950
	Notation:	180° reversible
	Shank type:	BMT
	Machine adaption:	Centering key b 20
	Tool adaption:	Ø 1" (25,4mm)
	Coolant:	IC/Ext
	Center distance [mm]:	92,5
<b>8 240 17 039</b>	<b>Boring bar holder Ø 25</b>	
	Weight [kg]:	2.920
	Notation:	180° reversible
	Shank type:	BMT
	Machine adaption:	Centering key b 20
	Tool adaption:	Ø 25
	Coolant:	IC/Ext
	Center distance [mm]:	92,5

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Part-#	Name	
 <p><b>8 240 17 086</b></p>	<p><b>Boring bar holder Ø 25</b></p> <p>Weight [kg]: Notation: Version: Shank type: Machine adaption: Tool adaption: Coolant: Please note: Center distance [mm]:</p>	<p>3.540 180° reversible offset BMT Centering key b 20 Ø 25 IC/Ext Tool adaption on turret center 75</p>
 <p><b>8 240 18 025</b></p>	<p><b>Boring bar holder Ø 32</b></p> <p>Weight [kg]: Notation: Version: Shank type: Machine adaption: Tool adaption: Coolant: Please note: Center distance [mm]:</p>	<p>3.610 180° reversible offset BMT Centering key b 20 Ø 32 IC/Ext Tool adaption to turret center 75</p>
 <p><b>8 240 18 052</b></p>	<p><b>Boring bar holder Ø 1 1/4 "</b></p> <p>Weight [kg]: Notation: Shank type: Machine adaption: Tool adaption: Coolant: Center distance [mm]:</p>	<p>3.140 180° reversible BMT Centering key b 20 Ø 1 1/4" (31,75mm) IC/Ext 75</p>
 <p><b>8 240 18 076</b></p>	<p><b>Boring bar holder Ø 32</b></p> <p>Weight [kg]: Notation: Version: Shank type: Machine adaption: Tool adaption: Coolant: Please note: Center distance [mm]:</p>	<p>3.400 180° reversible offset BMT Centering key b 20 Ø 32 IC/Ext Tool adaption on turret center 75</p>
 <p><b>8 244 11 003</b></p>	<p><b>Facing holder sq. 20</b></p> <p>Weight [kg]: Notation: Shank type: Machine adaption: Tool adaption: Coolant:</p>	<p>2.550 180° reversible BMT Centering key b 20 Sq. 20 EXT</p>

Part-#	Name	
<b>8 244 11 006</b>	<b>Facing holder sq. 3/4"</b>	
	Weight [kg]:	2.460
	Notation:	180° reversible
	Shank type:	BMT
	Machine adaption:	Centering key b 20
	Tool adaption:	Sq. 3/4" (19,05mm)
	Coolant:	EXT
<b>8 249 15 008</b>	<b>Double collet chuck holder ER 25 AX UT</b>	
	Weight [kg]:	3.110
	Notation:	180° reversible
	Shank type:	BMT
	Machine adaption:	Centering key b 20
	Tool adaption:	ER 25 A - u-tec
	Coolant:	IC/Ext
	Center distance [mm]:	75
<b>8 249 15 014</b>	<b>Double tool holder C 3 IC</b>	
	Weight [kg]:	3.500
	Notation:	180° reversible
	Employment for:	Main- and sub spindle
	Shank type:	BMT
	Machine adaption:	Centering key b 20
	Tool adaption:	heimatec Capto(TM) C 3 heimatec Capto(TM) C 3
	Coolant:	IC
	Please note:	Check applicability!; note tool length!
	Center distance [mm]:	70
<b>8 251 11 004</b>	<b>Double turning holder sq. 20</b>	
	Weight [kg]:	3.250
	Notation:	180° reversible
	Employment for:	right cutting tools
	Shank type:	BMT
	Machine adaption:	Centering key b 20
	Tool adaption:	Sq. 20 Sq. 20
	Coolant:	EXT
<b>8 251 11 005</b>	<b>Double turning holder sq. 16</b>	
	Weight [kg]:	3.360
	Notation:	180° reversible
	Shank type:	BMT
	Machine adaption:	Centering key b 20
	Tool adaption:	Sq. 16
	Coolant:	EXT
<b>8 251 11 008</b>	<b>Double turning holder sq. 3/4"</b>	
	Weight [kg]:	3.240
	Notation:	180° reversible
	Employment for:	right cutting tools
	Shank type:	BMT
	Machine adaption:	Centering key b 20
	Tool adaption:	Sq. 3/4" (19,05mm) Sq. 3/4" (19,05mm)
	Coolant:	EXT

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Part-#	Name	
<b>8 251 13 021</b>	<b>Combi multiple holder 6x sq. 3/4" IC</b>	
	Weight [kg]:	4.020
	Employment for:	Main- and sub spindle
	Shank type:	BMT
	Machine adaption:	Centering key b 20
	Tool adaption:	Sq. 3/4" (19,05mm)
		Sq. 3/4" (19,05mm)
		Sq. 3/4" (19,05mm)
		Sq. 3/4" (19,05mm)
	Coolant:	IC/Ext
	Pressure max [bar]:	100
	Please note:	Key rail
<b>8 251 13 022</b>	<b>Combi multiple holder 3x sq. 3/4" IC</b>	
	Shank type:	BMT
	Machine adaption:	Centering key b 20
	Tool adaption:	Sq. 3/4" (19,05mm)
		Sq. 3/4" (19,05mm)
	Coolant:	IC/Ext
	Pressure max [bar]:	100
	Please note:	Key rail
<b>8 251 14 013</b>	<b>Combi multiple holder 6x sq. 20</b>	
	Weight [kg]:	3.890
	Employment for:	Main- and sub spindle
	Shank type:	BMT
	Machine adaption:	Centering key b 20
	Tool adaption:	Sq. 20
		Sq. 20
		Sq. 20
		Sq. 20
	Coolant:	EXT
	Pressure max [bar]:	80
<b>8 251 14 023</b>	<b>Combi multiple holder 6x sq. 3/4"</b>	
	Weight [kg]:	4.080
	Employment for:	Main- and sub spindle
	Shank type:	BMT
	Machine adaption:	Centering key b 20
	Tool adaption:	Sq. 3/4"
		Sq. 3/4"
		Sq. 3/4"
		Sq. 3/4"
	Coolant:	EXT
<b>8 251 14 080</b>	<b>Combi multiple holder 6x sq. 20 IC</b>	
	Weight [kg]:	4.100
	Employment for:	Main- and sub spindle
	Shank type:	BMT
	Machine adaption:	Centering key b 20
	Tool adaption:	Sq. 20
		Sq. 20
		Sq. 20
		Sq. 20
	Coolant:	IC/Ext
	Pressure max [bar]:	100

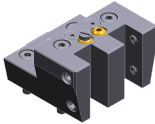

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Part-#	Name	
	Please note:	Key rail
<b>8 251 14 081</b>	<b>Combi multiple holder 3x sq. 20 IC</b>	
	Weight [kg]:	2.550
	Shank type:	BMT
	Machine adaption:	Centering key b 20
	Tool adaption:	Sq. 20
		Sq. 20
	Coolant:	IC/Ext
	Pressure max [bar]:	100
	Please note:	Key rail
<b>8 251 14 099</b>	<b>Combi double turning holder sq. 20 IC</b>	
	Weight [kg]:	3.140
	Notation:	180° reversible
	Shank type:	BMT
	Machine adaption:	Centering key b 20
	Tool adaption:	Sq. 20
		Sq. 20
		Sq. 20
		Sq. 20
	Coolant:	IC/Ext
	Pressure max [bar]:	100
	Please note:	Key rail
<b>8 251 15 045</b>	<b>Multiple tool holder C 3 IC</b>	
	Employment for:	Main- and sub spindle
	Version:	right
	Shank type:	BMT
	Machine adaption:	Centering key b 20
	Tool adaption:	heimatec Capto(TM) C 3
		heimatec Capto(TM) C 3
	Coolant:	IC
	Pressure max [bar]:	140
	Please note:	Check applicability; note tool length!
	Offset [mm]:	50
<b>8 253 13 003</b>	<b>Multiple tool holder 2x HSK 40-T</b>	
	Weight [kg]:	4.740
	Notation:	offset
	Shank type:	BMT
	Machine adaption:	Centering key b 20
	Tool adaption:	DIN 69893 T - HSK 40
		DIN 69893 T - HSK 40 - 15°
	Coolant:	IC/Ext
	Please note:	Insert has to be provided will
	Center distance [mm]:	85
<b>8 253 13 005</b>	<b>Multiple tool holder 2x HSK 40-T</b>	
	Weight [kg]:	5.040
	Employment for:	Main spindle
	Shank type:	BMT
	Machine adaption:	Centering key b 20
	Tool adaption:	DIN 69893 T - HSK 40
		DIN 69893 T - HSK 40 - 15°
	Coolant:	IC/Ext

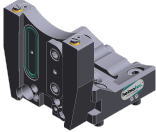
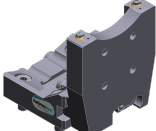
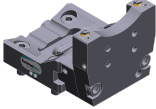
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Part-#	Name	
	Please note:	Insert has to be provided will
	Center distance [mm]:	85
<b>8 253 13 006</b>	<b>Multiple tool holder 2x HSK 40-T</b>	
	Weight [kg]:	4.640
	Notation:	offset
	Employment for:	Main spindle
	Shank type:	BMT
	Machine adaption:	Centering key b 20
	Tool adaption:	DIN 69893 T - HSK 40
		DIN 69893 T - HSK 40 - 15°
	Coolant:	IC/Ext
	Please note:	Insert has to be provided will
	Center distance [mm]:	85
<b>8 253 13 007</b>	<b>Multiple tool holder 2x HSK 40-T</b>	
	Employment for:	Sub spindle
	Shank type:	BMT
	Machine adaption:	Centering key b 20
	Tool adaption:	DIN 69893 T - HSK 40
		DIN 69893 T - HSK 40 - 15°
	Coolant:	IC/Ext
	Center distance [mm]:	85
<b>8 253 13 008</b>	<b>Multiple tool holder 2x HSK 40-T</b>	
	Notation:	offset
	Shank type:	BMT
	Machine adaption:	Centering key b 20
	Tool adaption:	DIN 69893 T - HSK 40
		DIN 69893 T - HSK 40 - 15°
	Coolant:	IC/Ext
	Center distance [mm]:	85
<b>8 253 17 031</b>	<b>Multiple boring bar holder 2x Ø 25</b>	
	Weight [kg]:	4.590
	Notation:	180° reversible
	Shank type:	BMT
	Machine adaption:	Centering key b 20
	Tool adaption:	Ø 25
		Ø 25 - 15°
	Coolant:	IC/Ext
	Center distance [mm]:	92,5
<b>8 253 17 036</b>	<b>Multiple boring bar holder 2x Ø 1"</b>	
	Weight [kg]:	4.640
	Notation:	180° reversible
	Shank type:	BMT
	Machine adaption:	Centering key b 20
	Tool adaption:	Ø 1"
		Ø 1" - 15°
	Coolant:	IC/Ext
	Center distance [mm]:	92,5

Part-#	Name	
<b>8 253 17 103</b>	<b>Multiple boring bar holder 2x Ø 25</b>	
	Weight [kg]:	4.030
	Notation:	180° reversible
	Employment for:	Main- and sub spindle
	Shank type:	BMT
	Machine adaption:	Centering key b 20
	Tool adaption:	Ø 25 Ø 25 - 15°
	Coolant:	IC/Ext
	Center distance [mm]:	75
<b>8 253 17 111</b>	<b>Double boring bar holder 2x Ø 25</b>	
	Weight [kg]:	2.600
	Notation:	180° reversible
	Shank type:	BMT
	Machine adaption:	Centering key b 20
	Tool adaption:	Ø 25 Ø 25
	Coolant:	IC/Ext
	Center distance [mm]:	60/90
<b>8 259 11 002</b>	<b>Multiple turning holder 2x sq. 20</b>	
	Weight [kg]:	2.080
	Notation:	180° reversible
	Version:	Y-axes offset
	Shank type:	BMT
	Machine adaption:	Centering key b 20
	Tool adaption:	Sq. 20 Sq. 20
	Coolant:	EXT
<b>8 259 19 008</b>	<b>Multiple holder Ø 25 and sq. 20</b>	
	Weight [kg]:	5.140
	Employment for:	Main- and sub spindle
	Shank type:	BMT
	Machine adaption:	Centering key b 20
	Tool adaption:	Sq. 20 Sq. 20 Sq. 20 Sq. 20
	Coolant:	IC/Ext
	Center distance [mm]:	92,5
<b>8 263 19 037</b>	<b>Tool holder with rotating centering point</b>	
	Weight [kg]:	3.750
	Notation:	180° reversible
	Shank type:	BMT
	Machine adaption:	Centering key b 20
	Rotation max [1/min]:	6000
	Coolant:	EXT
	Please note:	Taper roller bearings
	Center distance [mm]:	85

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Part-#	Name	
<b>8 320 12 007</b>	<b>Cut-off holder, height adjustable SH 26 IC</b>	
	Weight [kg]:	1.230
	Notation:	180° reversible
	Shank type:	BMT
	Machine adaption:	Centering key b 20
	Tool adaption:	Clampshaft SH 26
	Coolant:	IC/Ext
	Pressure max [bar]:	70
<b>8 320 12 008</b>	<b>Cut-off holder, height adjustable SH 26 IC</b>	
	Weight [kg]:	1.380
	Notation:	180° reversible
	Shank type:	BMT
	Machine adaption:	Centering key b 20
	Tool adaption:	Clampshaft SH 26
	Coolant:	IC/Ext
	Pressure max [bar]:	70
	Please note:	Clampshaft internal
<b>8 320 13 003</b>	<b>Cut-off holder, height adjustable SH 32 IC</b>	
	Weight [kg]:	1.300
	Notation:	180° reversible
	Shank type:	BMT
	Machine adaption:	Centering key b 20
	Tool adaption:	Clampshaft SH 32
	Coolant:	IC/Ext
	Pressure max [bar]:	70
<b>8 320 13 013</b>	<b>Cut-off holder, height adjustable SH 32 IC</b>	
	Weight [kg]:	1.580
	Notation:	180° reversible
	Shank type:	BMT
	Machine adaption:	Centering key b 20
	Tool adaption:	Clampshaft SH 32
	Coolant:	IC/Ext
	Pressure max [bar]:	70
	Please note:	with offset cut-off tool holder; use
<b>8 320 13 014</b>	<b>Cut-off holder, height adjustable SH 32 IC</b>	
	Weight [kg]:	1.490
	Notation:	180° reversible
	Shank type:	BMT
	Machine adaption:	Centering key b 20
	Tool adaption:	Clampshaft SH 32
	Coolant:	IC/Ext
	Pressure max [bar]:	70
	Please note:	Clampshaft internal
<b>8 320 13 032</b>	<b>Cut-off holder, height adjustable SH 32 IC</b>	
	Weight [kg]:	1.430
	Notation:	180° reversible
	Shank type:	BMT
	Machine adaption:	Centering key b 20
	Tool adaption:	Clampshaft SH 32
	Coolant:	IC/Ext
	Pressure max [bar]:	70

Nakamura  
NTJ-100 - unterer Revolver

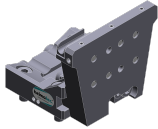
Part-#	Name
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Please note:

Clampshaft internal; cut-off tool able to penetrate the tool holder body

8 320 19 008

**Cut-off holder, height adjustable 845 IC**



Weight [kg]:

1.500

Notation:

180° reversible


Shank type:

BMT

Machine adaption:

Centering key b 20

Tool adaption:

 System 845

Coolant:

IC

Pressure max [bar]:

70

Please note:

Clampshaft internal

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