

Nakamura  
**SC-100**  
**X2-oberer**



# 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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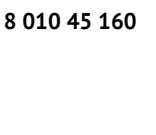
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Nakamura  
SC-100 X2-oberer Revolver

Part-#	Name	
8 010 44 055	<b>Axial milling and drill holder ER 20 AX UT</b>	
		<p>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</p>
8 010 44 056	<b>Axial milling and drill holder ER 20 AX UT IC</b>	
		<p>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</p>
8 010 44 085	<b>Axial drilling and milling head ER 20 AX UT IC</b>	
		<p>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</p>
8 010 44 091	<b>Axial drilling and milling head ER 20 AX UT</b>	
		<p>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</p>

Nakamura  
SC-100 X2-oberer Revolver

Part-#	Name	
	<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 45 160</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	


Nakamura  
SC-100 X2-oberer Revolver

Part-#	Name
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**8 010 45 191**    **Axial milling and drill holder ER 25 AX UT**


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

**8 010 45 192**    **Axial milling and drill holder ER 25 AX UT IC**



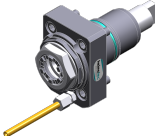
Weight [kg]: 1.800  
 Tool drive: Flat (~DIN 1809)  
 Shank size [mm]: 44.00  
 Shank type: BMT  
 Tool adaption: ER 25 A - u-tec  
 Gear ratio [i]: 1:1  
 Torque max [Nm]: 32  
 Rotation max [1/min]: 8000  
 Rotating direction: same  
 Coolant: IC/Ext  
 Pressure max [bar]: 25  
 Please note: Combi bearing

**8 010 45 193**    **Axial milling and drill holder ER 25 AX UT IC**




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

**8 010 45 208**    **Axial drilling and milling head ER 25 AX UT**







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

Nakamura  
SC-100 X2-oberer Revolver

Part-#	Name	
<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
<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


Nakamura  
SC-100 X2-oberer Revolver


Part-#	Name	
<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
<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

Nakamura  
SC-100 X2-oberer Revolver

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 44 040</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	




Part-#	Name	
<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
	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

Part-#	Name	
	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
	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 44 070</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

Part-#	Name	
	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 44 172</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
	Center distance [mm]:	68,5
<b>8 030 44 173</b>	<b>Radial drilling and milling head ER 16 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 16 A - u-tec
	Gear ratio [i]:	1:3
	Torque max [Nm]:	8
	Rotation max [1/min]:	18000
	Rotating direction:	same
	Coolant:	IC/Ext
	Pressure max [bar]:	140
	Center distance [mm]:	68,5
<b>8 030 44 179</b>	<b>Radial drilling and milling head ER 16 AX UT</b>	
	Weight [kg]:	4.040
	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]:	1:4
	Torque max [Nm]:	5
	Rotation max [1/min]:	24000
	Rotating direction:	opposite
	Coolant:	EXT
	Center distance [mm]:	60

# Nakamura

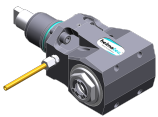
## SC-100 X2-oberer Revolver

Part-#	Name
<b>8 030 44 180</b>	<b>Radial drilling and milling head ER 16 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 16 A - u-tec Gear ratio [i]: 1:4 Torque max [Nm]: 5 Rotation max [1/min]: 24000 Rotating direction: opposite Coolant: IC/Ext Pressure max [bar]: 140 Center distance [mm]: 60
<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 44 225</b>	<b>Radial drilling and milling head ER 20 AX UT</b>
	Weight [kg]: 3.830 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]: 60
<b>8 030 44 226</b>	<b>Radial drilling and milling head ER 20 AX UT IC</b>
	Weight [kg]: 4.250 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

Part-#	Name
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Pressure max [bar]: 140  
Center distance [mm]: 60

**8 030 44 229 Radial drilling and milling head ER 20 AX UT**



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

**8 030 44 230 Radial drilling and milling head ER 20 AX UT IC**



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

**8 030 44 237 Angle-mill- and drill holder ER 20 AX UT**



Weight [kg]: 3.880  
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: EXT  
Please note: Combi bearing  
Center distance [mm]: 60



**8 030 44 238 Angle-mill- and drill holder ER 20 AX UT IC**



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


# Nakamura

## SC-100 X2-oberer Revolver


Part-#	Name	
	Coolant:	IC/Ext
	Pressure max [bar]:	140
	Please note:	Combi bearing
	Center distance [mm]:	60
<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
	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

Part-#	Name
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<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





<b>8 030 45 540</b>	<b>Angle-mill- and drill holder ER 25 AX UT</b>
	
Weight [kg]:	4.190
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]:	8000
Rotating direction:	opposite
Coolant:	EXT
Please note:	Combi bearing
Center distance [mm]:	60




<b>8 030 45 560</b>	<b>Radial drilling and milling head Weldon 3/4"</b>
Weight [kg]:	4.420
Notation:	180° reversible
Tool drive:	Flat (~DIN 1809)
Shank size [mm]:	44.00
Shank type:	BMT
Tool adaption:	Weldon (DIN 1835 b) 3/4" (19,05mm)
Gear ratio [i]:	2:1
Torque max [Nm]:	32
Rotation max [1/min]:	4000
Rotating direction:	opposite
Coolant:	EXT
Please note:	Combi bearing
Center distance [mm]:	60

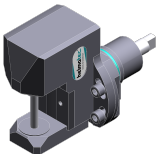
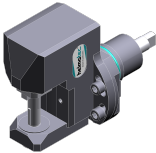
<b>8 030 45 574</b>	<b>Radial drilling and milling head ER 25 AX UT</b>
	
Weight [kg]:	3.740
Notation:	180° reversible
Tool drive:	Flat (~DIN 1809)
Shank size [mm]:	44.00
Shank type:	BMT
Tool adaption:	ER 25 A - u-tec
Gear ratio [i]:	1:1
Torque max [Nm]:	32
Rotation max [1/min]:	12000

# Nakamura

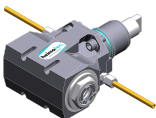
## SC-100 X2-oberer Revolver

Part-#	Name	
	Rotating direction:	opposite
	Coolant:	EXT
	Center distance [mm]:	60
<b>8 030 45 575</b>	<b>Radial drilling and milling head ER 25 AX UT IC</b>	
	Weight [kg]:	4.600
	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
	Pressure max [bar]:	140
	Center distance [mm]:	60
<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
	Pressure max [bar]:	140
	Center distance [mm]:	75
<b>8 030 45 609</b>	<b>Angle-mill- and drill holder ER 25 AX UT</b>	
	Weight [kg]:	3.900
	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

Part-#	Name	
	Torque max [Nm]:	32
	Rotation max [1/min]:	8000
	Rotating direction:	opposite
	Coolant:	EXT
	Please note:	Combi bearing
	Center distance [mm]:	60
<b>8 030 45 610</b>	<b>Angle-mill- and drill holder ER 25 AX UT IC</b>	
	Weight [kg]:	4.240
	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]:	8000
	Rotating direction:	opposite
	Coolant:	IC/Ext
	Pressure max [bar]:	140
	Please note:	Combi bearing
	Center distance [mm]:	60
<b>8 030 46 266</b>	<b>Radial drilling and milling head HT 4</b>	
	Weight [kg]:	4.020
	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]:	32
	Rotation max [1/min]:	12000
	Rotating direction:	opposite
	Coolant:	EXT
	Pressure max [bar]:	140
	Center distance [mm]:	60
<b>8 030 46 267</b>	<b>Radial drilling and milling head HT 4 IC</b>	
	Weight [kg]:	4.250
	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]:	32
	Rotation max [1/min]:	12000
	Rotating direction:	opposite
	Coolant:	IC/Ext
	Pressure max [bar]:	140
	Center distance [mm]:	60

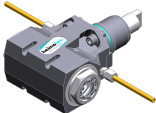


Part-#	Name	
<b>8 030 46 503</b>	<b>Radial drilling and milling head HT 4</b>	
	Weight [kg]:	3.540
	Notation:	180° reversible
	Tool drive:	Flat (~DIN 1809)
	Shank size [mm]:	44.00
	Shank type:	BMT
	Tool adaption:	HT 4
	Gear ratio [i]:	1:1
	Torque max [Nm]:	16
	Rotation max [1/min]:	8000
	Rotating direction:	opposite
	Coolant:	EXT
	Please note:	stronger bearing
	Center distance [mm]:	60
<b>8 030 46 504</b>	<b>Radial drilling and milling head HT 4 IC</b>	
	Weight [kg]:	3.790
	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]:	8000
	Rotating direction:	opposite
	Coolant:	IC/Ext
	Pressure max [bar]:	140
	Please note:	stronger bearing
	Center distance [mm]:	60
<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
	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




Part-#	Name	
<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
	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 44 094</b>	<b>Radial drilling and milling head ER 20 AX UT</b>	
	Weight [kg]:	4.140
	Notation:	180° reversible
	Version:	double spindle
	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



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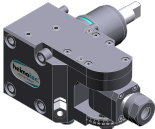

## SC-100 X2-oberer Revolver

Part-#	Name	
	Rotating direction:	same/opposite
	Coolant:	EXT
	Please note:	stronger bearing
	Center distance [mm]:	60
<b>8 039 45 009</b>	<b>Radial drilling and milling head ER 25 AX UT</b>	
	Weight [kg]:	4.080
	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]:	60
<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

Part-#	Name	
	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
<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 43 000</b>	<b>Universal head + 90° adj. ER11 AX</b>	
	Weight [kg]:	4.040
	Notation:	offset
	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:	opposite
	Coolant:	EXT
	Please note:	180° reversible
	Center distance [mm]:	25

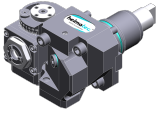
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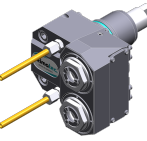
## SC-100 X2-oberer Revolver

Part-#	Name	
	Offset [mm]:	72
<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>8 043 43 004</b>	<b>Universal head +155° adj. ER11 AX IC</b>	
	Weight [kg]:	4.500
	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:	IC/Ext
	Pressure max [bar]:	25
	Center distance [mm]:	25
	Offset [mm]:	74
<b>8 043 44 001</b>	<b>Universal head + 90° adjustable ER 16</b>	
	Weight [kg]:	4.070
	Notation:	offset
	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:	opposite
	Coolant:	EXT
	Please note:	180° reversible
	Center distance [mm]:	25
	Offset [mm]:	72
<b>8 043 44 051</b>	<b>Universal head + 60°/- 5° adj. ER16AX UT</b>	
	Weight [kg]:	3.640
	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

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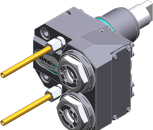

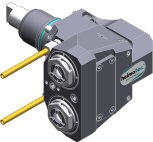
## SC-100 X2-oberer Revolver

Part-#	Name	
	Torque max [Nm]:	16
	Rotation max [1/min]:	12000
	Rotating direction:	opposite
	Coolant:	EXT
	Please note:	180° reversible
	Center distance [mm]:	25
	Offset [mm]:	50
<b>8 043 44 052</b>	<b>Universal head + 60°/- 5° adj. ER16AX UTIK</b>	
	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]:	12000
	Rotating direction:	opposite
	Coolant:	IC/Ext
	Pressure max [bar]:	140
	Please note:	180° reversible
	Center distance [mm]:	25
	Offset [mm]:	50
<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
<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

Part-#	Name	
<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 44 024</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

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## SC-100 X2-oberer Revolver

Part-#	Name	
	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
	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

# Nakamura

## SC-100 X2-oberer Revolver

Part-#	Name	
	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
	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

Part-#	Name	
<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
<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

Nakamura  
SC-100 X2-oberer Revolver

Part-#	Name	
<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
<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

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## SC-100 X2-oberer Revolver

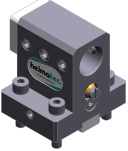



Part-#	Name	
	Please note:	Key rail
<b>8 225 11 006</b>	<b>Cut-off holder sq. 20</b>	
	Weight [kg]:	0.900
	Employment for:	left cutting tools
	Version:	Edge on side of turret
	Shank type:	BMT
	Machine adaption:	Centering key b 20
	Tool adaption:	Sq. 20
	Coolant:	EXT
<b>8 225 11 007</b>	<b>Cut-off holder 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)
	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 15 011</b>	<b>Collet chuck holder ER 25</b>	
	Weight [kg]:	1.910
	Notation:	180° reversible
	Shank type:	BMT
	Machine adaption:	Centering key b 20
	Tool adaption:	ER 25
	Coolant:	IC/Ext
	Center distance [mm]:	60
<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

Nakamura  
SC-100 X2-oberer Revolver

Part-#	Name	
<b>8 240 15 025</b>	<b>Collet chuck holder ER 25 AX UT</b>	
	Weight [kg]:	2.100
	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]:	60
<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
<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






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## SC-100 X2-oberer Revolver

Part-#	Name	
<b>8 240 17 009</b>	<b>Boring bar holder Ø 25</b>	
	Weight [kg]:	1.740
	Machine adaption:	Centering key b 20
	Tool adaption:	Ø 25
	Coolant:	IC/Ext
	Center distance [mm]:	60
<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 17 083</b>	<b>Boring bar holder Ø 25</b>	
	Notation:	180° reversible special
	Version:	offset
	Shank type:	BMT
	Machine adaption:	Centering key b 20
	Tool adaption:	Ø 25
	Coolant:	IC/Ext
	Please note:	Tool holder on turret center
	Center distance [mm]:	60
<b>8 240 17 086</b>	<b>Boring bar holder Ø 25</b>	
	Weight [kg]:	3.540
	Notation:	180° reversible
	Version:	offset
	Shank type:	BMT
	Machine adaption:	Centering key b 20
	Tool adaption:	Ø 25
	Coolant:	IC/Ext
	Please note:	Tool adaption on turret center
	Center distance [mm]:	75
<b>8 240 18 025</b>	<b>Boring bar holder Ø 32</b>	
	Weight [kg]:	3.610
	Notation:	180° reversible
	Version:	offset
	Shank type:	BMT
	Machine adaption:	Centering key b 20
	Tool adaption:	Ø 32
	Coolant:	IC/Ext
	Please note:	Tool adaption to turret center




# Nakamura

## SC-100 X2-oberer Revolver

Part-#	Name	
	Center distance [mm]:	75
<b>8 240 18 027</b>	<b>Boring bar holder Ø 32</b>	
	Weight [kg]:	2.900
	Notation:	180° reversible
	Version:	offset
	Shank type:	BMT
	Machine adaption:	Centering key b 20
	Tool adaption:	Ø 32
	Coolant:	IC/Ext
	Please note:	Tool holder on turret center
	Center distance [mm]:	60
<b>8 240 18 048</b>	<b>Boring bar holder Ø 1 1/4 "</b>	
	Weight [kg]:	2.750
	Notation:	180° reversible
	Version:	offset
	Shank type:	BMT
	Machine adaption:	Centering key b 20
	Tool adaption:	Ø 1 1/4" (31,75mm)
	Coolant:	IC/Ext
	Please note:	Tool holder on turret center
	Center distance [mm]:	60
<b>8 240 18 052</b>	<b>Boring bar holder Ø 1 1/4 "</b>	
	Weight [kg]:	3.140
	Notation:	180° reversible
	Shank type:	BMT
	Machine adaption:	Centering key b 20
	Tool adaption:	Ø 1 1/4" (31,75mm)
	Coolant:	IC/Ext
	Center distance [mm]:	75
<b>8 240 18 076</b>	<b>Boring bar holder Ø 32</b>	
	Weight [kg]:	3.400
	Notation:	180° reversible
	Version:	offset
	Shank type:	BMT
	Machine adaption:	Centering key b 20
	Tool adaption:	Ø 32
	Coolant:	IC/Ext
	Please note:	Tool adaption on turret center
	Center distance [mm]:	75
<b>8 244 11 003</b>	<b>Facing holder sq. 20</b>	
	Weight [kg]:	2.550
	Notation:	180° reversible
	Shank type:	BMT
	Machine adaption:	Centering key b 20
	Tool adaption:	Sq. 20
	Coolant:	EXT

# Nakamura

## SC-100 X2-oberer Revolver

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

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## SC-100 X2-oberer Revolver

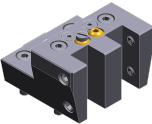

Part-#	Name	
<b>8 251 13 021</b>	<b>Combi multiple holder 6x sq. 3/4" IC</b>	
	Weight [kg]:	4.020
	Employment for:	Main- and sub spindle
	Shank type:	BMT
	Machine adaption:	Centering key b 20
	Tool adaption:	Sq. 3/4" (19,05mm)
		Sq. 3/4" (19,05mm)
		Sq. 3/4" (19,05mm)
		Sq. 3/4" (19,05mm)
	Coolant:	IC/Ext
	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 14 069</b>	<b>Double turning holder sq. 20</b>	
	Weight [kg]:	3.970
	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

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SC-100 X2-oberer Revolver


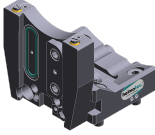
Part-#	Name	
<b>8 251 14 080</b>	<b>Combi multiple holder 6x sq. 20 IC</b>	
	Weight [kg]:	4.100
	Employment for:	Main- and sub spindle
	Shank type:	BMT
	Machine adaption:	Centering key b 20
	Tool adaption:	Sq. 20
		Sq. 20
		Sq. 20
		Sq. 20
	Coolant:	IC/Ext
	Pressure max [bar]:	100
	Please note:	Key rail
<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 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°

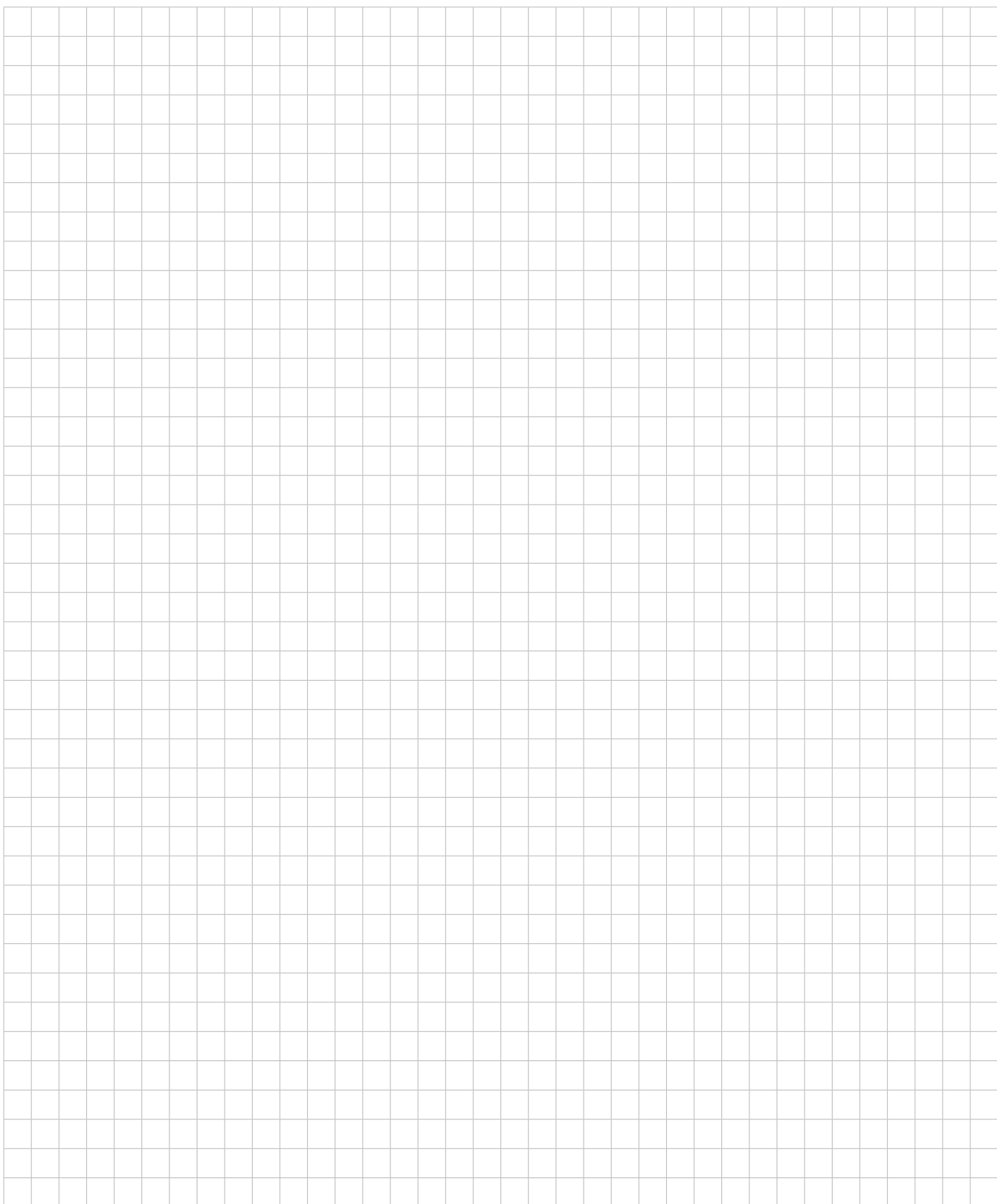
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## SC-100 X2-oberer Revolver

Part-#	Name	
	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 17 007</b>	<b>Multiple holder Ø 25 and sq. 20</b>	
	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]:	75
<b>8 259 17 010</b>	<b>Multiple holder Ø 25 and sq. 20</b>	
	Weight [kg]:	3.020
	Employment for:	Main- and sub spindle
	Shank type:	BMT
	Machine adaption:	Centering key b 20
	Tool adaption:	Sq. 20
		Ø 25
	Coolant:	IC/Ext
	Center distance [mm]:	60
<b>8 261 18 006</b>	<b>Tool holder for centering insert</b>	
	Weight [kg]:	2.600
	Notation:	180° reversible
	Shank type:	BMT
	Machine adaption:	Centering key slot b 20
	Tool adaption:	Ø 32
	Coolant:	EXT
	Please note:	Price without centering point
	Center distance [mm]:	60

Nakamura  
SC-100 X2-oberer Revolver

Part-#	Name	
<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
<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 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



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