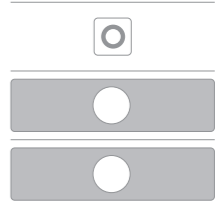
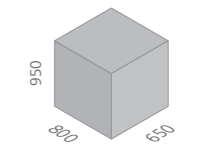




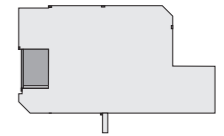
Working range		
X-axis	800 mm	
Y-axis (toolchange position)	1 000 mm (1 300 mm)	
Z-axis	650 mm	
Workpiece carrier	A / U	B / V*
Swivel carrier / counterbearing with crown gear: swivel time 0 / 180°	approx. 4,25 s	
A- and U-axis, prepared for mounting a fixture plate, up to max.	ø 965 mm x 1 030 mm	ø 875 mm x 1 000 mm
Drive system	Torque motor	
Load capacity	2 x 700 kg	
Speed range	1 - 40 rpm	
C- / W-axis, 1-fold*	upgradable to A / U	
Load capacity C/W	each 250 kg	
Work spindle	HSK-A63	HSK-A80*
Speed range / Run up time 0 - n _{max}	1 - 17 500 rpm / < 0,7 s	1 - 12 500 rpm / < 0,9 s
Spindle bearings ø	80 mm	90 mm
Power / Torque (40% duty cycle)	35 kW / 80 Nm (40% ED)	42 kW / 200 Nm (10% ED)
Feed drive		
Drive system	Linear motor	
Rapid traverse X / Y / Z	120 / 120 / 120 m/min	
Axis acceleration X / Y / Z	12 / 10 / 22 m/s ²	
Max. feed thrust X / Y / Z	8 000 / 16 000 / 8 000 N	
Accuracy		
Position measuring system	Direct, absolute	
Positioning tolerance X / Y / Z	Tp = 0,006 mm	
Tool magazine		
Toolchange system	Pick-Up	
Capacity	40 (75, 125)*	
Max. tool ø	85 / 200 mm (-o-)	
Max. tool x flattening	350 x 200 mm (-o-)	
Max. tool length / weight	600 mm / 10 kg (-o-)	600 mm / 12 / 18 kg (-o-)
Toolchange		
Chip-to-chip time	approx. 2, 75 s	
Weight / Dimensions		
Total weight	approx. 18 000 kg	
Transport dimensions W x H x L	3,02 m x 3,65 m x 5,40 m	
Machine installed W x H x L	4,40 m x 4,50 m x 8,10 m	
Connected load		
Operating voltage	3 x 400 Volt, 50 Hz, TN-S/TN-C Netz	
Total connected load	110 kVA	
Mean air consumption	0,4 Nm ³ /min (5,5 bar)	
CNC control system		
Siemens	SINUMERIK 840D sl	



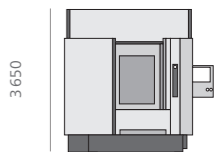
DOUBLE SWIVEL CARRIER



WORKSPACE PER SPINDLE



5 400

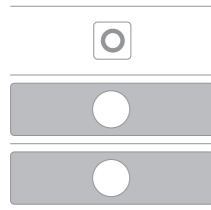


3 650

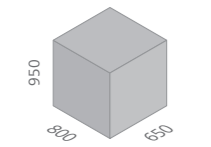
3 020

*optional, **on request, -o- occupancy of multiple magazine positions. Details depending on equipment. Technical data according to project planning. Deviation +/- 15% reserved. Subject to change without notice.

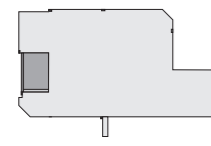
BA one8



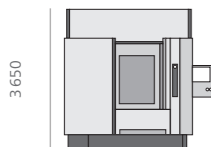
DOUBLE SWIVEL CARRIER



WORKSPACE PER SPINDLE



5400



3020

Working range		
X-axis	800 mm	
Y-axis (toolchange position)	1 000 mm (1 300 mm)	
Z-axis	650 mm	
Workpiece carrier	A / U	B / V*
Swivel carrier / counterbearing with crown gear: swivel time 0 / 180°	approx. 4,25 s	approx. 4,25 s
A- and U-axis, prepared for mounting a fixture plate, up to max.	ø 965 mm x 1 030 mm	ø 875 mm x 1 000 mm
Drive system	Torque motor	Torque motor
Load capacity	2 x 700 kg	2 x 700 kg
Speed range	1 - 40 rpm	1 - 40 rpm
C- / W-axis, 1-fold*	upgradable to A / U	
Load capacity C/W	each 250 kg	
Work spindle	HSK-A100	
Speed range / Run up time 0 - n _{max}	1 - 12 500 rpm / < 1,05 s	
Spindle bearings ø	100 mm	
Power / Torque (40% duty cycle)	42 kW / 200 Nm (10% ED)	
Feed drive		
Drive system	Linear motor	
Rapid traverse X / Y / Z	120 / 120 / 120 m/min	
Axis acceleration X / Y / Z	12 / 10 / 22 m/s ²	
Max. feed thrust X / Y / Z	8 000 / 16 000 / 8 000 N	
Accuracy		
Position measuring system	Direct, absolute	
Positioning tolerance X / Y / Z	Tp = 0,006 mm	
Tool magazine		
Toolchange system	Pick-Up	
Capacity	30 (60, 100)*	
Max. tool ø	85 / 200 mm (-o-)	
Max. tool x flattening	350 x 200 mm (-o-)	
Max. tool length / weight	600 mm / 12 / 18 kg (-o-)	
Toolchange		
Chip-to-chip time	approx. 2, 75 s	
Weight / Dimensions		
Total weight	approx. 18 000 kg	
Transport dimensions W x H x L	3,02 m x 3,65 m x 5,40 m	
Machine installed W x H x L	4,40 m x 4,50 m x 8,10 m	
Connected load		
Operating voltage	3 x 400 Volt, 50 Hz, TN-S/TN-C Netz	
Total connected load	110 kVA	
Mean air consumption	0,4 Nm ³ /min (5,5 bar)	
CNC control system		
Siemens	SINUMERIK 840D sl	

*optional, **on request, -o- occupancy of multiple magazine positions. Details depending on equipment. Technical data according to project planning. Deviation +/- 15% reserved. Subject to change without notice.