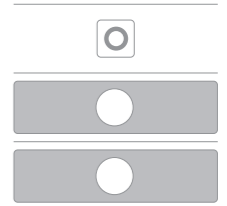
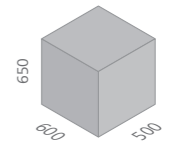




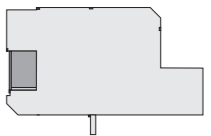
Working range		
X-axis	600 mm	
Y-axis (toolchange position)	650 mm (925 mm)	
Z-axis	500 mm	
Workpiece carrier	A / U	B / V*
Swivel carrier / counterbearing with crown gear: swivel time 0 / 180°	approx. 3,5 s	approx. 3,5 s
A / U (B / V) -axis, prepared for mounting a fixture plate, up to max.	ø 725 mm x 830 mm	ø 675 mm x 750 mm
Drive system	Torque motor	Torque motor
Load capacity	2 x 450 kg	2 x 450 kg
Speed range	1 - 50 rpm	1 - 50 rpm
C- / W-axis, 1 satellites*	upgradable to A / U	
Load capacity C/W	each 150 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	35 kW / 80 Nm (40% ED)	42 kW / 200 Nm (10% ED)
Feed drive	Linear motor	
Drive system	Linear motor	
Rapid traverse X / Y / Z	100 / 120 / 100 m/min	
Axis acceleration X / Y / Z	10 / 12 / 22 m/s ²	
Max. feed thrust X / Y / Z	8 000 / 16 000 / 8 000 N	
Accuracy	Direct, absolute	
Position measuring system	Direct, absolute	
Positioning tolerance X / Y / Z	Tp = 0,006 mm	
Accuracy package**	Tp = 0,005 mm	
Positioning tolerance X / Y / Z (VCS)	Tp = 0,005 mm	
Spindle rotation (HSK-A63/A80)	0,004 mm / 300 mm	
Active sag compensation Z	< 0,005 / 500 mm	
Tool magazine HSK-A63 / -A80	Pick-Up	
Toolchange system	Pick-Up	
Capacity	30 (60)* (105)* (155)**	
Max. tool ø	85 / 160 mm (-o-)	
Max. tool ø x flattening	300 x 160 mm (-o-)	
Max. tool length	450 mm	
Max. tool weight HSK-A63	10 kg (-o-)	
Max. tool weight HSK-A80	12 / 18 kg (-o-)	
Toolchange	approx. 2,5 s	
Chip-to-chip time	approx. 2,5 s	
Weight / Dimensions	approx. 16 000 kg	
Total weight	approx. 16 000 kg	
Transport dimensions W x H x L	2,78 m x 3,00 m x 4,85 m	
Machine installed W x H x L	3,75 m x 3,75 m x 7,4 m	
Connected load	3 x 400 Volt, 50 Hz, TN-S/TN-C Netz	
Operating voltage	3 x 400 Volt, 50 Hz, TN-S/TN-C Netz	
Total connected load	100 kVA	
Mean air consumption	0,4 Nm ³ /min (5,5 bar)	
CNC control system	SINUMERIK 840 D sl	
Siemens	SINUMERIK 840 D sl	



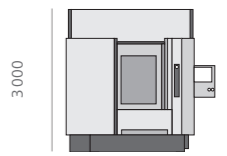
DOUBLE SWIVEL CARRIER



WORKSPACE PER SPINDLE



4 850



2 780

*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.