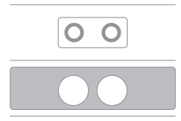
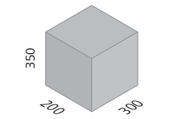
BA W02

BA W02-21

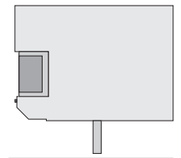
Working range		
X-axis	200 mm	
Y-axis (toolchange position)	350 mm (525 mm)	
Z-axis	300 mm	
Spindle distance	250 mm	
Workpiece carrier		
A-axis, prepared for mounting a fixture		
plate, up to max.	ø 500 mm x 630 mm	
Drive system	Torque motor	
Load capacity	2 x 250 kg	
Speed range A-axis	1 - 100 rpm	
C-axis*	2 satellites	
Work spindle	**HSK-A40**	**HSK-E40***
Speed range	1 - 25 000 rpm	1 - 36 000 rpm
Run up time 0 - n_{max}	< 0,7 s	< 1,5 s
Spindle bearings ø	50 mm	
Power (duty cycle)	2 x 18 kW (40%)	2 x 14 kW (40%)
Torque (duty cycle)	2 x 17 Nm (40%)	2 x 7 Nm (40%)
Feed drive		
Drive system	Linear motor	
Rapid traverse X / Y / Z	80 / 120 / 120 m/min	
Axis acceleration X / Y / Z	16 / 16 / 24 m/s²	
Max. feed thrust X / Y / Z	4 000 / 6 000 / 4 000 N	
Accuracy		
Position measuring system	Direct, absolute	
Positioning accuracy A /	≤ 0,004	
Repeatability R (ISO 230-2)	≤ 0,003	
Tool magazine		
Toolchange system	Pick-Up	
Capacity	2 x 20 (2 x 40 / 2 x 60)*	
Max. tool ø	45 / 110 mm (-o-)	
Max. tool length	225 mm	
Max. tool weight HSK-40	2,0 kg	
Toolchange		
Chip-to-chip time	approx. 1,75 s	
Weight / Dimensions		
Total weight	approx. 6 000 kg	
Transport dimensions W x H x L	2,02 m x 2,35 m x 2,70 m	
Machine installed W x H x L	3,20 m x 2,90 m x 4,90 m	
Connected load		
Operating voltage	3 x 400 Volt, 50 Hz, TN-S/TN-C Netz	
Total connected load	41 kVA	
Mean air consumption	0,4 Nm³/min (5,5 bar)	
CNC control system		
Siemens	SINUMERIK 840 D sl	



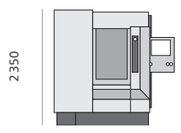
SWIVEL CARRIER
2 ROTARY TABLES*



WORKSPACE PER SPINDLE



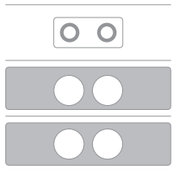
2 700



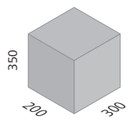
2 020

*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.

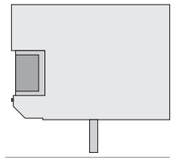
BA W02-22



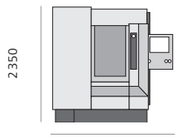
DOUBLE SWIVEL CARRIER
2 ROTARY TABLES*



WORKSPACE PER SPINDLE



2 550



1 920

Working range		
X-axis	200 mm	
Y-axis (toolchange position)	350 mm (525 mm)	
Z-axis	300 mm	
Spindle distance	250 mm	
Workpiece carrier		
Swivel carrier / counterbearing with crown gear: swivel time 0 / 180°	ca. 2,25 s	
A- and U-axis, prepared for mounting a fixture plate, up to max.	ø 425 mm x 630 mm	
Drive system	Torque motor	
Load capacity	2 x 160 kg	
Speed range A-, U-axis	1 - 100 min^{-1}	
C- and W-axis*	2 satellites	
Work spindle	**HSK-A40**	**HSK-E40***
Speed range	1 - 25 000 rpm	1 - 36 000 rpm
Run up time 0 - n_{max}	< 0,7 s	< 1,5 s
Spindle bearings ø	50 mm	
Power (duty cycle)	2 x 18 kW (40%)	2 x 14 kW (40%)
Torque (duty cycle)	2 x 17 Nm (40%)	2 x 7 Nm (40%)
Feed drive		
Drive system	Linear motor	
Rapid traverse X / Y / Z	80 / 120 / 120 m/min	
Axis acceleration X / Y / Z	16 / 16 / 24 m/s^2	
Max. feed thrust X / Y / Z	4 000 / 6 000 / 4 000 N	
Accuracy		
Position measuring system	Direct, absolut	
Positioning accuracy A /	≤ 0,006	
Repeatability R (ISO 230-2)	≤ 0,004	
Tool magazine		
Toolchange system	Pick-Up	
Capacity	2 x 20 (2 x 40 / 2 x 60)*	
Max. tool ø	45 / 110 mm (-o-)	
Max. tool length	225 mm	
Max. tool weight HSK-40	2,0 kg	
Toolchange		
Chip-to-chip time	approx 1,75 s	
Weight / Dimensions		
Total weight	ca. 6 300 kg	
Transport dimensions W x H x L	1,92 m x 2,35 m x 2,55 m	
Machine installed W x H x L	3,20 m x 2,90 m x 5,20 m	
Connected load		
Operating voltage	3 x 400 Volt, 50 Hz, TN-S/TN-C Netz	
Total connected load	41 kVA	
Mean air consumption	0,4 Nm^3/min (5,5 bar)	
CNC control system		
Siemens	SINUMERIK 840 D 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.