

G320 compact

*Turn-mill centers for high-performance machining
of medium-sized workpieces*

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Technical data

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Work area		INDEX G320 compact		
Turning length	mm	1,200		
Main spindle and counter spindle		Main spindle	Counter Spindle	
Spindle clearance	mm	102	76	90
Spindle nose ISO 702/1		A8	A6	A8
• Max. speed	rpm	4,000	6,000	4,000
• Drive power (100%/40% DC)	kW	44 / 55	33 / 35	40 / 50
• Torque (100%/40% DC)	Nm	2560 / 325	150 / 190	230 / 310
Chuck diameter	mm	260	160	260
C axis resolution	degrees	0.001	0.001	0.001
Upper tool carrier		Motor milling spindle		
Kinematics		XYZB		
Tooling system		HSK-T63 // HSK-T40		
• Max. speed	rpm	12,000		
• Drive power (25% DC)	kW	20.7		
• Torque (25% DC)	Nm	95		
X slide travel, rapid traverse rate, feed force	mm / m/min / N	490 / 30 / 6,000		
Y slide travel, rapid traverse rate, feed force	mm / m/min / N	+90/-60 / 20 / 9,000		
Z slide travel, rapid traverse rate, feed force	mm / m/min / N	1,210 / 50 / 6,000		
B axis swivel range, rapid traverse rate	degrees/rpm	-25 / +205		
Lower tool carrier, left/right		Turret XYZ		
Tooling system DIN ISO 10889		VDI30		
Number of stations (live)		12		
• Max. speed	rpm	7,500		
• Drive power (25% DC)	kW	9		
• Torque (25% DC)	Nm	20		
X slide travel, rapid traverse rate, feed force	mm / m/min / N	180 / 30 / 6,000		
Y slide travel, rapid traverse rate, feed force	mm / m/min / N	+/-50 / 20 / 9,000		
Z slide travel, rapid traverse rate, feed force	mm / m/min / N	1,280 / 50 / 6,000		
Tool magazine		HSK-T63		
Tooling system		HSK-T63		
Tool magazine locations		(1 chain/2 chains)	52 (103)	
Max. tool weight		kg	5	
Max. tool diameter		mm	100	
Max. tool length		mm	300	
Turret steady rest (optional)				
Turret steady rest bottom clamping range		mm	6-70	
Workpiece handling unit for single gripper				
Max. workpiece weight		kg	7,5	
Max. workpiece diameter		mm	76	
Max. workpiece length		mm	250	
Workpiece handling unit for double gripper, shaft/flange (optional)				
Max. workpiece weight, flange/shaft		kg	2x10	
Max. workpiece diameter, flange/shaft		mm	230 / 90	
Max. workpiece length, flange/shaft		mm	up to Ø 125, max. length: 250 Ø 125 – Ø 230, max. length: 100 / 500	
General data				
Length x width x height		mm	3,910 x 2,775 x 2,520	
Weight		t	16.5	
Connected power		kW	71	
Control		Siemens S840D sl		