

03

Technical data C 250 GEN2



03.1

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Working area	Traverse	X-axis	600 mm
	Traverse	Y-axis	550 mm
	Traverse	Z-axis	450 mm
	Rapid linear traverses	X-Y-Z	35 - 35 - 35 m/min
	Linear acceleration	X-Y-Z	6 m/s ²
	Linear feed force	X-Y-Z	5000 N
	Max. vertical table clearance		550 mm
	Max. workpiece diameter		Ø 450 mm
	Max. workpiece height		355 mm
	Collision circle (A-axis) in 0° position		Ø 770 mm
Main spindle drive	Speed	15000 rpm	SK 40
	Main power/torque	20% c.d.f.	20 kW / 173 Nm ●
	Speed	16000 rpm	HSK A 63
	Main power/torque	20% c.d.f.	20 kW / 173 Nm ○
	Speed	20000 rpm	HSK A 63
	Main power/torque	20% c.d.f.	42 kW / 148 Nm
Control unit	Heidenhain		TNC7 ●
Tool changer (pick-up)	Interface		SK 40 / HSK A 63 ●
	Magazine pockets		30 items
	Chip-to-chip time		approx. 6 s
	Maximum tool length		300 mm
	Max. tool diameter with corresponding adjacent pocket allocation		Ø 80 mm Ø 125 mm
	Max. tool weight		8 kg
	Max. magazine load		120 kg
	Extension of tool storage capacity	Additional tool magazine ZM 30 (SK 40 / HSK A 63)	
Additional tool magazine ZM 50 (SK 40 / HSK A 63)			additional 50 pockets ○
Additional tool magazine ZM 88 k (SK 40 / HSK A 63)			additional 88 pockets ○
Additional tool magazine single ZM 216 (HSK A 63)			additional 216 pockets ○
Maximum tool length			300 mm
Max. tool diameter in the additional tool magazine			Ø 80 mm ○
Max. tool diameter with corresponding adjacent pocket allocation in additional tool magazine			Ø 125 mm
Max. tool weight			8 kg

- Included in standard delivery
- Available upon request

Chip drawer	Removable chip drawer			●
Chip conveyor	Scraper belt			○
	Hinged belt conveyor		Advanced / Advanced 250	○
	Ejection height		at least 940 mm	
	Chip cart		450 l	
External cooling lubricant supply	Capacity of standard tank		305 l	●
Internal cooling lubricant supply with paper band filter	Capacity of standard tank		80 l	●
	Capacity of cooling lubricant tank		800 l	
	Pressure (adjustable up to)		max. 40 bar / 27 l/min max. 80 bar / 12 l/min	○
	Mains connection (ICS)		400 V / 50 Hz 460 V / 60 Hz	
	Power consumption (ICS)		up to 12,5 kVA	
	Power consumption (temperature controller)		up to 6,0 kVA	
Table variants	Swivelling rotary table	Ø 320	Ø 450 x 360	Rigid clamping table
	Clamping surface	Ø 320 mm	Ø 450 x 360 mm	800 x 616 mm
	Swivelling range	+/- 115°	+/- 115°	-
	C-axis drive mode	Worm	Worm	-
	Swivelling axis A speed:			
	One-sided drive	25 rpm	25 rpm	-
	Speed rotary axis C:	40 rpm	40 rpm	-
	Max. table load	-	-	1100 kg
	One-sided drive	300 kg	300 kg	-
	T grooves parallel	4 / 14 H7 star-shaped	5 / 14 H7 parallel	9 / 14 H7 parallel
	Secondary clamping plates	710 x 370 mm	-	-
	T grooves parallel	5 / 14 H7	-	-
	System table (can be extended with table plate)	Ø 320 mm	Ø 450 x 360 mm	-
Positional uncertainty	A in X-Y-Z axes according to ISO 230-2 (calculated at a constant ambient temperature of 20 °C +/- 1 °C. Our products are subject to the German Export Law and require authorization since the attainable precision may be less/greater than 6 µm.)		≤ 0,006 mm	●
Hydraulics	Operating pressure		120 bar	
Central lubrication	Minimum grease lubrication quantity			
Connected loads (machine)	Mains connection		400 V / 50 Hz 460 V / 60 Hz	
	Power consumption		up to 43 kVA	
	Compressed air		6 bar	
Weight	(standard version without optional extras, attachments, work-pieces and cooling lubricant)		approx. 8.2 t	