

03

Technical data C 400 GEN2



03.1

Technical data C 400 GEN2

Working area	Traverse	X-axis	850 mm
	Traverse	Y-axis	700 mm
	Traverse	Z-axis	500 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	7000 N
	Max. vertical table clearance		625 mm
	Max. workpiece diameter		Ø 650 mm
	Max. workpiece height		500 mm
	Collision circle (A-axis) in 0° position		Ø 885 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.	20 kW / 173 Nm
Control unit	Heidenhain		TNC7 ●
Tool changer (pick-up)	Interface		SK 40 / HSK A 63 ●
	Magazine pockets		38 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		152 kg
Extension of tool storage capacity	Additional tool magazine ZM 30 (SK 40 / HSK A 63)		additional 30 pockets ○
	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	290 l ●
Internal cooling lubricant supply with paper band filter	Capacity of standard tank	170 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 440 Ø 650 x 540 Rigid clamping table
	Clamping surface	Ø 440 mm Ø 650 x 540 mm 1070 x 700 mm
	Swivelling range	+91° / -139° +91° / -139° -
	C-axis drive mode	Worm Worm -
	Swivelling axis A speed:	
	One-sided drive	25 rpm 25 rpm -
	Speed rotary axis C:	30 rpm 30 rpm -
	Max. table load	- - 2000 kg
	One-sided drive	450 kg 600 kg -
	T grooves parallel	5 / 14 H7 7 / 14 H7 10 / 14 H7
	Secondary clamping plates	920 x 490 mm - -
	T grooves parallel	7 / 14 H7 - -
Positioning 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 44 kVA
	Compressed air	6 bar
Weight	(standard version without optional extras, attachments, work-pieces and cooling lubricant)	approx. 9.5 t