

03

Technical data . C 400



# 03.1

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<b>Working area</b>	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 <sup>2</sup>
	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
<b>Main spindle drive</b>	Speed	15000 rpm	SK 40 / HSK A 63
	Main power/Torque	20% c.d.f.	20 kW / 173 Nm ●
	Speed	18000 rpm	HSK A 63
	Main power/Torque	20% c.d.f.	20 kW / 173 Nm ○
<b>Control unit</b>	Heidenhain		TNC 640 ●
<b>Tool changer (pick-up)</b>	Magazine pockets		38 items ●
	Chip-to-chip time		approx. 6 s
	Maximum tool length		300 mm
	Max. tool diameter		Ø 80 mm
	with corresponding adjacent pocket allocation		Ø 125 mm
	Max. magazine load		152 kg
<b>Extension of tool storage capacity</b>	Additional tool magazine ZM 50		additional 50 pockets ○
	Additional tool magazine ZM 88 k		additional 88 pockets ○
	Max. tool diameter		Ø 80 mm
	with corresponding adjacent pocket allocation in additional tool magazine		Ø 125 mm
Max. tool weight		8 kg	
<b>Chip drawer</b>	Removable chip drawer		●
<b>Chip conveyor</b>	Scraper belt		○
	Ejection height	at least 940 mm	○
	Chip cart	450 l	○
<b>Internal cooling lubricant supply with paper band filter</b>	Capacity of standard tank		350 l ●
	Capacity of cooling lubricant tank	700 l with 80 bar / 570 l with 40 bar	
	Pressure (manually adjustable up to)		max. 80/40 bar / 17/27 l/min ○

<b>Table variants</b>	Swivelling rotary table	Ø 440	Ø 650	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	-	-
<b>Positional uncertainty</b>	P in X-Y-Z axes according to VDI/DGQ 3441 (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.)			0.008 mm ●
<b>Hydraulics</b>	Operating pressure			120 bar ●
<b>Central lubrication</b>	Minimum grease lubrication quantity			●
<b>Connected loads (machine)</b>	Mains connection			400 V / 50 Hz
	Power consumption			34 kVA
	Compressed air			6 bar
<b>Weight</b>	(standard version without optional extras, attachments, work-pieces and cooling lubricant)			approx. 9.5 t

- Included in standard delivery
- Available upon request