## 03 Technical data . C 400



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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/s²	
	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 Main power/Torque	15000 rpm 20% c.d.f.	SK 40 / HSK A 63 20 kW / 173 Nm	
	Speed Main power/Torque	18000 rpm 20% c.d.f.	HSK A 63 20 kW / 173 Nm	
Control unit	Heidenhain		TNC 640 / 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 50 (SK 40 / HSK A 63)		additional 50 pockets	0
	Additional tool magazine ZM 88 k (SK 40 / HSK A 63)		additional 88 pockets	
	Additional tool magazine single ZM 216 (HSK A 63)		additional up to 216 pockets	
	Max. tool diameter with corresponding adjacent pocket alloc	Ø 80 mm magazine Ø 125 mm		
	Max. tool weight		8 kg	
Chip drawer	Removable chip drawer			•
Chip conveyor	Scraper belt			
	Ejection height Chip cart		at least 940 mm 450 l	0

External cooling lubricant supply	Capacity of standard tank			350   •		
Internal cooling lubricant supply with paper band filter	Capacity of standard tank			122   ○		
	Capacity of cooling lubricant tank 700 l with 80			bar / 570 I with 40 bar		
	Pressure (adjustable up to)			max. 80/40 bar / O		
	Mains connection (ICS)			400 V / 50/60 Hz		
	Power consumption (ICS)			up to 20 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 One-sided drive	- 450 kg	- 600 kg	2000 kg		
	T grooves parallel	5 / 14 H7	7 / 14 H7	10 / 14 H7		
	Secondary clamping plates T grooves parallel	920 x 490 mm 7 / 14 H7	-	-		
Positioning uncertainty	A in X-Y-Z axes according to VDI/DGQ 3441 ≤ 0.006 mm ●					
	(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 $\mu$ m.)					
Hydraulics	Operating pressure			120 bar •		
Central lubrication	Minimum grease lubrication quantity					
Connected loads (machine)	Mains connection		4	00 V / 50/60 Hz		
	Power consumption			up to 30 kVA		
	Compressed air			6 bar		
Weight	(standard version without opti pieces and cooling lubricant)	onal extras, attachme	ents, work-	approx. 9.5 t		