03 Technical data . C 650



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Working area	Traverse	X axis	1050 mm	
	Traverse	Y axis	900 mm	
	Traverse	Z axis	600 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		775 mm	
	Max. workpiece diameter		Ø 900 mm	
	Max. workpiece height		600 mm	
	Collision circle (A axis) in 0° position		Ø 1100 mm	
Main spindle drive	Speed Main power/Torque	15000 rpm 20% c.d.f.	SK 40 O / HSK A 63 42 kW / 148 Nm	
	Speed Main power/Torque	18000 rpm 20% c.d.f.	HSK A 63 42 kW / 148 Nm	
Control unit	Heidenhain		TNC 640	•
Tool changer (pick-up)	Magazine pockets		42 items	
	Chip-to-chip time		approx. 6 s	
	Maximum tool length		350 mm	
	Max. tool diameter with corresponding adjacent pocket allo	ocation	Ø 80 mm Ø 125 mm	
	Max. magazine load		168 kg	
Extension of tool storage capacity	Additional tool magazine ZM 50		additional 50 pockets	0
	Additional tool magazine ZM 88 k		additional 88 pockets	0
	Max. tool diameter with corresponding adjacent pocket allocations.	ation in additional tool mag	Ø 80 mm azine Ø 125 mm	
	Max. tool weight		8 kg	
Chip drawer	Removable chip drawer			•
Chip conveyor	Scraper belt or hinged belt conveyor Ejection height Chip cart		at least 940 mm 450 l	0
Internal cooling lubricant supply	Capacity of standard tank		375	•
with paper band filter	Capacity of cooling lubricant tank	1100 I with 80) bar / 570 I with 40 bar	
	Pressure (manually adjustable up to) (over Variovalve)	11001, William	max. 40 bar / 27 l/min max. 80 bar / 22 l/min	0

Table variants		Swivelling rotary table	Rigid clamping table
	Clamping surface	Ø 900 x 750 mm	1250 x 982 mm
	Swivelling range	+/-115°	-
	C axis drive mode	Worm	-
	Swivelling axis A speed: Tandem drive	25 rpm	-
	Speed rotary axis C:	25 rpm	-
	Max. table load	1500 kg	3000 kg
	T grooves parallel	7 / 18 H7	9 / 18 H7
Positional uncertainty	P in X-Y-Z axes according to VDI/DGQ 3441		0.008 mm •
	(calculated at a constant ambient temperatu Our products are subject to the German Exp authorization since the attainable precision than 6 µm.)		
Hydraulics	Operating pressure		120 bar ●
Central lubrication	Minimum grease lubrication quantity		•
Connected loads (machine)	Mains connection		400 V / 50/60 Hz
	Power consumption		max. 50 kVA
	Compressed air		6 bar
Weight	(standard version without optional extras, at pieces and cooling lubricant)	tachments, work-	approx. 15,0 t

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