Technical data . C 650 GEN2

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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 20 kW / 173 Nm	
	Speed Main power/Torque	16000 rpm 20% c.d.f.	HSK A 63 20 kW / 173 Nm	
	Speed Main power/Torque	20000 rpm 20% c.d.f.	HSK A 63 42 kW / 148 Nm	
Control unit	Heidenhain		TNC7	•
Tool changer (pick-up)	Interface		SK 40 / HSK A 63	•
	Magazine pockets		42 items	
	Chip-to-chip time		approx. 6 s	
	Maximum tool length		350 mm	
	Max. tool diameter with corresponding adjacent pocket al	llocation	Ø 80 mm Ø 125 mm	
	Max. tool weight		8 kg	
	Max. magazine load		168 kg	
Extension of tool storage capacity	Additional tool magazine ZM 50 (SK 4	0 / HSK A 63)	additional 50 pockets	0
	Additional tool magazine ZM 88 k (SK 40 / HSK A 63)		additional 88 pockets	0
	Additional tool magazine single ZM 216 (HSK A 63)		additional 216 pockets	0
	Additional tool magazine double ZM 528 (HSK A 63)		additional 528 pockets	0
	Max. tool diameter		Ø 80 mm	
	with corresponding adjacent pocket allo	cation in additional tool mag		

Included in standard delivery
Available upon request

Chip drawer	Removable chip drawer			
Chip drawer	Removable chip drawer			
Chip conveyor	Scraper belt conveyor			С
	Hinged belt conveyor	Advanc	ed / Advanced 250	C
	Ejection height		at least 940 mm	
	Chip cart		450	
External cooling lubricant supply	Capacity of standard tank		315	•
Internal cooling lubricant supply with paper band filter	Capacity of standard tank		110	С
	Capacity of cooling lubricant tank	860 I with 80 bar / 860 I with 40 bar		
	Pressure (adjustable up to)	max. 40 bar / 27 l/min max. 80 bar / 22 l/min		С
	Power consumption (ICS)		up to 12.5 kVA	
	Power consumption (temperature controller)		up to 6,0 kVA	
Table variants	S	wivelling rotary table	Rigid clamping t	able
	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	0 kg
	T grooves parallel	7 / 18 H7	9/18	3 H7
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 μ m.)		≤ 0,006 mm	1
Hydraulics	Operating pressure		120 bar	
Central lubrication	Minimum grease lubrication quantity			
Connected loads (machine)	Mains connection		400 V / 50/60 Hz	
	Power consumption		up to 49 kVA	
	Compressed air		6 bar	
Weight	(standard version without optional extras, atta pieces and cooling lubricant)	chments, work-	approx. 15,4 t	