

03

Technical data . C 60

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# 03.1

## Technical data . C 60

<b>Working area</b>	Traverse	X axis	1200 mm
	Traverse	Y axis	1300 mm
	Traverse	Z axis	900 mm
	Rapid linear traverses	X-Y-Z	50 m/min
	Linear acceleration	X-Y-Z	6 m/s <sup>2</sup>
	Linear feed force	X-Y-Z	16000 N
	Width across flats		1100 mm
	Max. workpiece diameter		Ø 1200 mm
	Max. workpiece height		900 mm
<b>Main spindle drive</b>	Speed	9000 rpm	SK 50 ○
	Main power/Torque	20% c.d.f.	56 kW / 356 Nm
	Speed	9000 rpm	HSK A 100 ○
	Main power/Torque	20% c.d.f.	41 kW / 476 Nm
	Speed	10000 rpm	HSK A 63 ○
	Main power/Torque	20% c.d.f.	23 kW / 298 Nm
	Speed	12000 rpm	HSK A 100 ○
	Main power/Torque	20% c.d.f.	56 kW / 356 Nm
	Speed	15000 rpm	SK 40 ●
	Main power/Torque	20% c.d.f.	35 kW / 215 Nm
Speed	18000 rpm	HSK A 63 ○	
Main power/Torque	20% c.d.f.	35 kW / 215 Nm	
Speed (MT variants)	12000 rpm	HSK A 100 / HSK T 100	
Main power/Torque	20% c.d.f.	56 kW / 356 Nm	
Speed (MT variants)	18000 rpm	HSK A 63 / HSK T 63	
Main power/Torque	20% c.d.f.	35 kW / 215 Nm	
<b>Control unit</b>	Heidenhain		iTNC 530 ●
	Heidenhain (with MT variant)		TNC 640
	Siemens (also for MT variant)		Sinumerik 840 D sl ○

<b>Tool changer (pick-up)</b>	Interface	SK 40 / HSK A 63 / HSK T 63	SK 50 / HSK A 100 / HSK T 100	○
	Magazine pockets	70	50	
	Chip-to-chip time*	approx. 9.5 s	approx. 9.5 s	
	*(chip-to-chip times calculated in keeping with German standard VDI 2852, page 1)			
	Max. tool length	500 mm	500 mm	
	Max. tool diameter	Ø 160 mm	Ø 250 mm	
	Max. magazine load	560 kg	550 kg	
	<b>Extension of tool storage capacity</b>	Additional magazine with additional		77/30 pockets
Max. tool diameter in the additional magazine			Ø 160 / Ø 125 mm	
Max. tool diameter with corresponding adjacent pocket allocation in additional magazine			Ø 250 mm / Ø 250 mm	
Max. tool weight			15 / 30 kg	
<b>Table variants*</b>	NC swivelling rotary table	Ø 900	Ø 1350	Ø 1200 (MT variant)
	Clamping surface	Ø 900 mm	Ø 1350 mm	Ø 1200 mm
	Clamping surface flattened on 2 sides	-	1100 mm	-
	Swivelling range	+/- 130°	+/- 130°	+/- 130°
	C-axis drive mode	torque	torque	torque
	Speed - swivelling axis A	15 rpm	15 rpm	15 rpm
	Speed - rotary axis C	30 rpm	30 rpm	400 rpm
	Max. milling table load	2500 kg	2500 kg	2500 kg
	Max. turning table load	-	-	1500 kg
	T grooves parallel	7 units / 18H7	11 units / 22H7	-
	T grooves star			16 units / 22H7

\*All tables available on demand

- Included in standard delivery
- Available upon request

<b>Position measuring system, direct</b>	Resolution	0.0001 mm	●
<b>Positional tolerance</b>	Tp 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>Chip conveyor</b>	Scraper belt conveyor		●
	Hinged belt conveyor		
	Chip conveyor ejection height	1100 mm	
	Chip cart	450 l	○
<b>Coolant equipment</b>	Amount of coolant	550 l	●
	Pump capacity	5 bar / 80 l/min	
<b>Internal coolant supply with paper band filter</b>	Amount of coolant	1500 l	
	Pressure (manually adjustable up to)	max. 80 bar / 26 l/min	
	Mains connection (ICS)	400 V / 50 Hz	
	Power consumption (ICS)	18.5 kVA	
<b>Hydraulics</b>	Operating pressure	120 bar	●
<b>Central lubrication</b>	Minimum grease lubrication quantity		●
<b>Weight</b>	(standard version without optional extras, workpieces and coolant)	Approx. 30.0 t	
<b>Connected loads</b>	Mains connection	400 V / 50 Hz	
	Power consumption	78 / 90 kVA	
	Compressed air	6 bar	

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