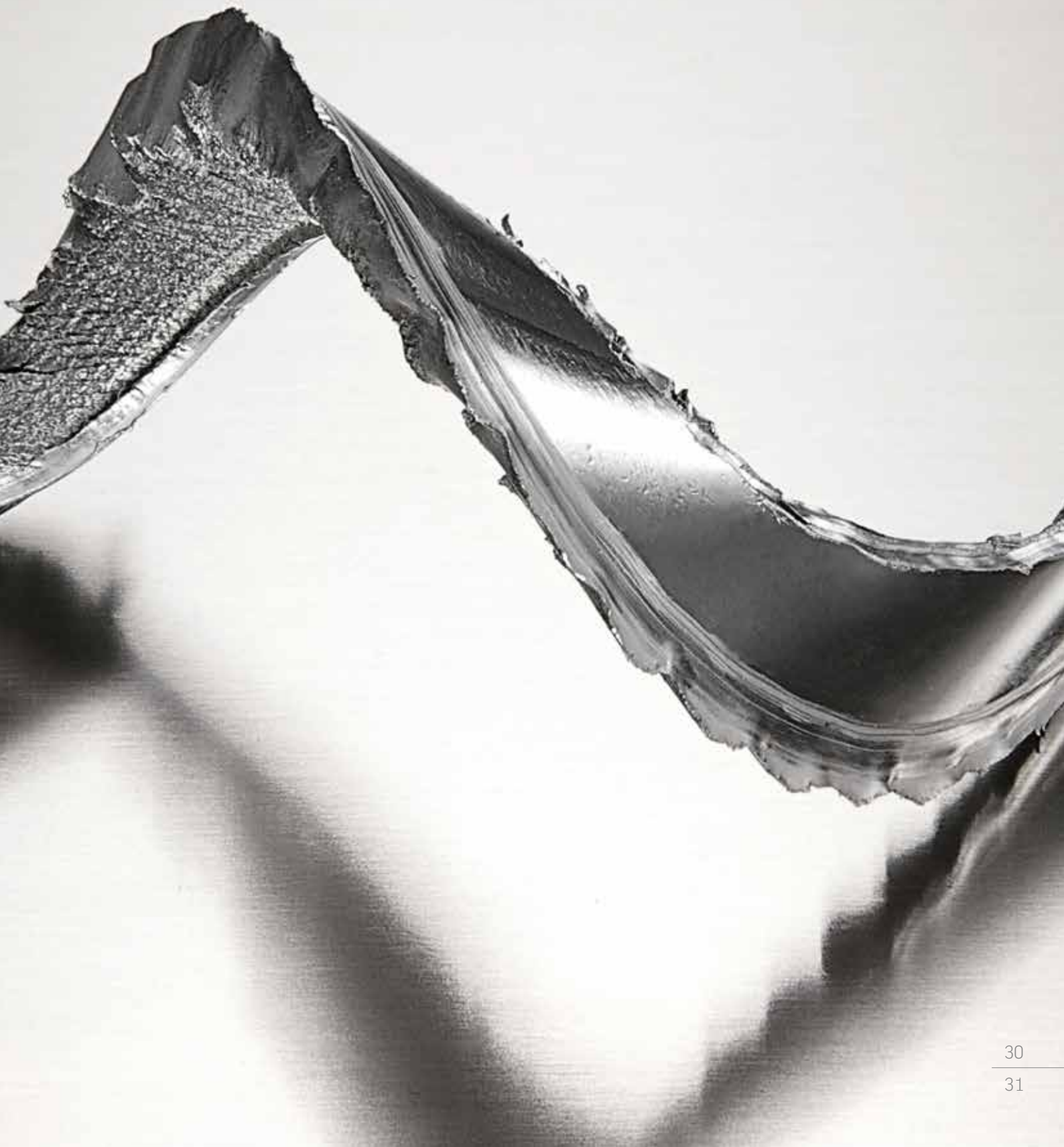


03

Technical data . C 52





# 03.1

## Technical data . C 52

<b>Working area</b>	Traverse	X-axis	1000 mm
	Traverse	Y-axis	1100 mm
	Traverse	Z-axis	750 mm
	Rapid linear traverses	X-Y-Z	60-60-55 m/min
	Linear acceleration	X-Y-Z	6 m/s <sup>2</sup>
	Linear feed force	X-Y-Z	16000 N
	Max. vertical table clearance		950 mm
	Max. workpiece diameter	5-axis: Ø 1100 mm	MT: Ø 1000 mm
	Max. workpiece height		810 mm
	Collision circle (A-axis) 0° position		Ø 1290 mm
<b>Main spindle drive</b>	Speed	9000 rpm	SK 50 ○
	Main power/Torque	20% c.d.f.	56 kW / 356 Nm
	Speed (MT variants)	9000 rpm	HSK T 100 ○
	Main power/Torque	20% c.d.f.	70 kW / 560 Nm
	Speed (MT variants)	14000 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		TNC 640 / TNC7 ●
	Siemens		S 840 D sl ○
<b>Tool changer (pick-up)</b>	Interface	HSK A 63 / HSK T 63 ●	SK 50 / HSK A 100 / HSK T 100 ○
	Magazine pockets	60	42
	Chip-to-chip time*	approx. 7.0 s	approx. 7.0 s
	*(chip-to-chip times for 3-axis units in milling mode 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. tool weight	15 kg	30 kg
	Max. magazine load	480 kg	462 kg

### Extension of tool storage capacity\*

Interface / Interface MT	additional magazine		magazine load	
	single	double	single	double
SK 50	ZM 72 / 92	ZM 176 / 216	72 / 92	176 / 216
HSK A 63 / HSK T 63	ZM 110 / 135	ZM 265 / 325	110 / 135	265 / 325
HSK A 100 / HSK T 100	ZM 88/108/128	ZM 212 / 260 / 300	88/108/128	212/260/300

\*The tool length depends on the use of the magazine and is at max. 500 mm. More details on request.

### Table variants\*

Swivelling rotary table	Ø 700	Ø 1150	Ø 1000 (MT variant)
Clamping surface	Ø 700 mm	Ø 1150 mm	Ø 1000 mm
Clamping surface flattened on 2 sides	-	900 mm	-
Swivelling range	+100° / -130°	+100° / -130°	+100° / -130°
C-axis drive mode	torque	torque	torque
Speed - swivelling axis A (tandem)	20 rpm	20 rpm	20 rpm
Speed - rotary axis C	30 rpm	30 rpm	500 rpm
Max. milling table load	2000 kg	2000 kg	2000 kg
Max. turning table load	-	-	1000 kg
T grooves parallel	9 units / 14 H7	9 units / 18 H7	-
T grooves star-shaped	-	-	16 units / 18 H7

\*All tables available on demand

- Included in standard delivery
- Available upon request

<b>Positioning uncertainty</b>	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 µm.)	≤ 0,006 mm	●
<b>Chip conveyor</b>	Scraper belt conveyor		●
	Hinged belt conveyor	Advanced / Advanced 250	○
	Chip conveyor ejection height	at least 940 mm	○
	Chip cart	450 l	○
<b>Cooling lubricant unit</b>	Amount of cooling lubricant	500 l	●
	Pump capacity	5 bar / 140 l/min	
<b>Internal cooling lubricant supply with paper band filter</b>	Amount of cooling lubricant	1650 l	
	Pressure (adjustable up to)	max. 80 bar / 39 l/min	
	Mains connection (ICS)	400 V / 50/60 Hz	
	Power consumption (ICS)	up to 25 kVA	
	Power consumption (ICS with temperature controller)	up to 31 kVA	
<b>Hydraulics</b>	Operating pressure	120 bar	●
<b>Central lubrication</b>	Minimum grease lubrication quantity		●
<b>Weight</b>	Weight C 52 U	Approx. 21.5 t	
	Weight C 52 U MT	Approx. 21.9 t	
	(standard version without optional extras, attachments, workpieces and cooling lubricant)		
<b>Connected loads</b>	Mains connection	400 V / 50/60 Hz	
	Power consumption C 52 U	up to 94 kVA	
	Power consumption C 52 U MT	up to 94 kVA	
	Compressed air	6 bar	

- Included in standard delivery
- Available upon request

