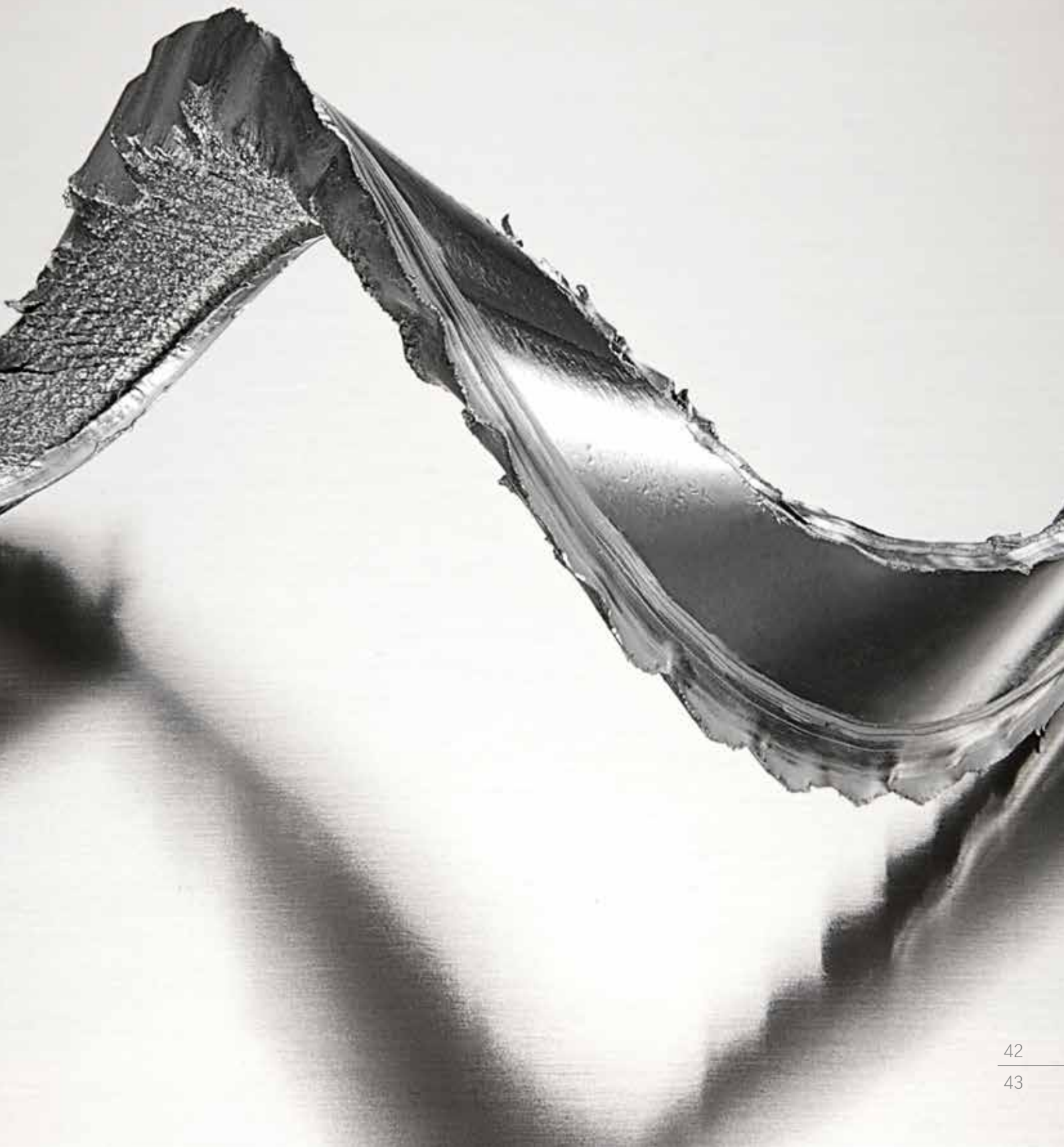


03

Technical data . C 52





03.1

Technical data . C 52

Working area	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 ²
	Linear feed force	X-Y-Z	16000 N
	Max. vertical table clearance		950 mm
	Max. workpiece diameter		Ø 1000 mm
	Max. workpiece height		810 mm
Main spindle drive	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	
Control unit	Heidenhain		iTNC 530 / TNC 640 ●
	Siemens		S 840 D sl ○
	Heidenhain (with MT variant)		TNC 640 ●
	Siemens (also for MT variant)		S 840 D sl ○

Tool changer (pick-up)	Interface	SK 40 / HSK A 63 / HSK T 63	SK 50 / HSK A 100 / HSK T 100
	Magazine pockets		60
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. magazine load		480 kg	462 kg
Max. tool weight		15 kg	30 kg

Extension of tool storage capacity*	Interface / Interface MT	additional magazine		max. magazine load	
		single	double	single	double
SK 40	ZM 90 / ZM 115	ZM 220 / ZM 270	90 / 115	220 / 270	
SK 50	ZM 72 / ZM 92	ZM 176 / ZM 216	72 / 92	176 / 216	
HSK A 63 / HSK T 63	ZM 110 / ZM 135	ZM 265 / ZM 325	110 / 135	265 / 325	
HSK A 100 / HSK T 100	ZM 88 / ZM 108	ZM 212 / ZM 260	88 / 108	212 / 260	

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

Table variants*	NC 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	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			16 units / 18 H7	

*All tables available on demand

- Included in standard delivery
- Available upon request

Position measuring system, direct	Resolution	0.0001 mm
Positional tolerance	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
Chip conveyor	Scraper belt conveyor	
	Hinged belt conveyor	
	Chip conveyor ejection height	1100 mm
	Chip cart	450 l
Cooling lubricant unit	Amount of cooling lubricant	500 l
	Pump capacity	5 bar / 80 l/min
Internal cooling lubricant supply with paper band filter	Amount of cooling lubricant	1700 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
Hydraulics	Operating pressure	120 bar
Central lubrication	Minimum grease lubrication quantity	
Weight	(standard version without optional extras, attachments, workpieces and cooling lubricant)	Approx. 21.0 t
Connected loads	Mains connection	400 V / 50/60 Hz
	Power consumption C 52 U	68 / 84 kVA
	Power consumption C 52 U MT	75 / 84 kVA
	Compressed air	6 bar

- Included in standard delivery
- Available upon request

