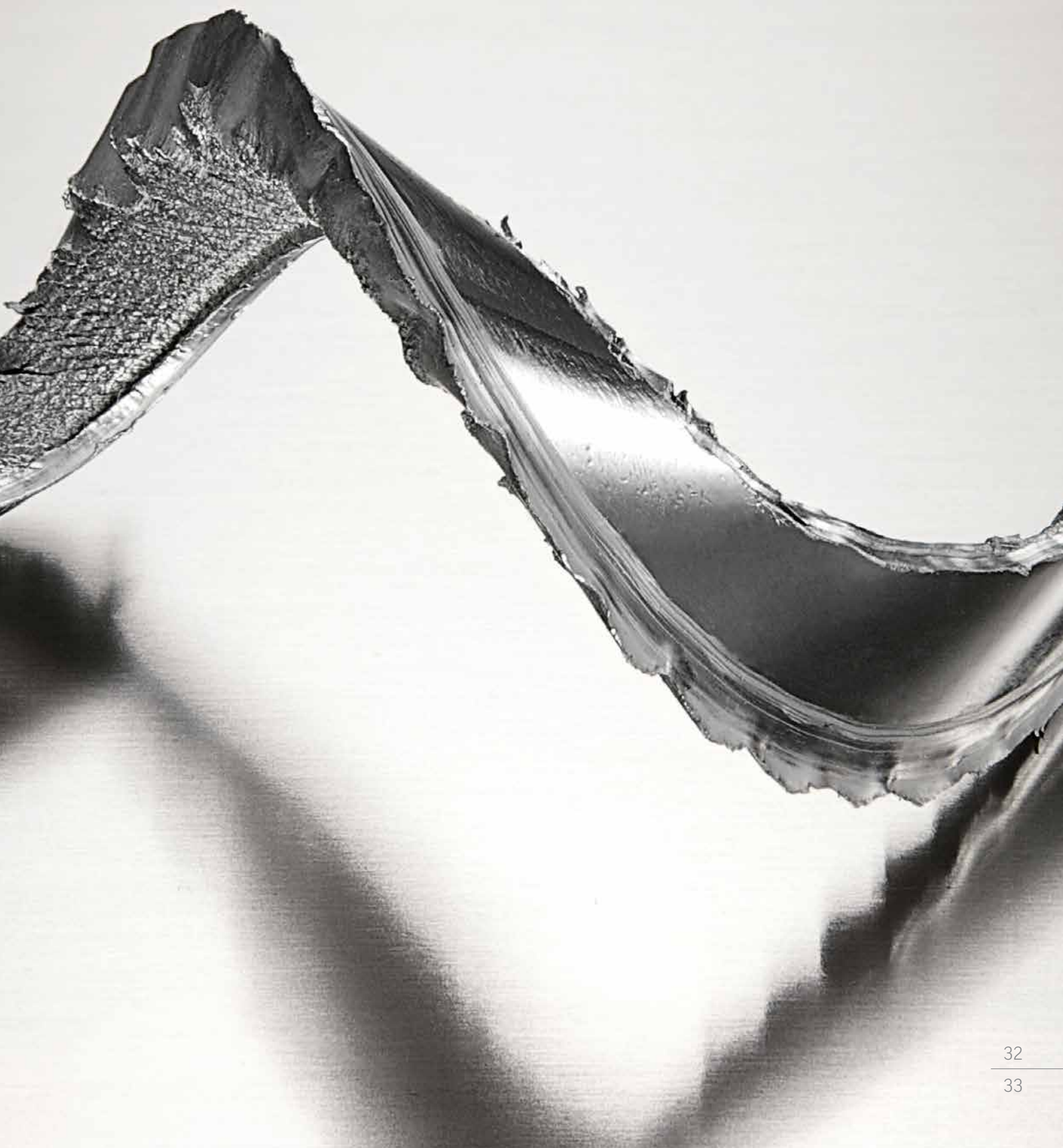


03

Technical data C 22 GEN2





03.1

Technical data C 22 GEN2

Working area

Traverse	X-axis	450 mm
Traverse	Y-axis	600 mm
Traverse	Z-axis	330 mm
Rapid linear traverse (dynamic)	X-Y-Z	30 (50) m/min.
Linear acceleration (dynamic)	X-Y-Z	8 (15) m/s ²
Linear feed force	X-Y-Z	4500 N
Max. vertical table clearance		470 mm
Max. workpiece diameter		Ø 450 mm
Max. workpiece height		370 mm
Collision circle (A-axis) in 0° position		Ø 610 mm

Main spindle drive

Speed	15000 rpm	SK 40	○
Main power/Torque	20% c.d.f.	31 kW / 98 Nm	
Speed	16000 rpm	HSK A 63	●
Main power/Torque	20% c.d.f.	31 kW / 98 Nm	
Speed	20000 rpm	HSK A 63	○
Main power/Torque	20% c.d.f.	38 kW / 94 Nm	
Speed	25000 rpm	HSK A 63	○
Main power/Torque	20% c.d.f.	37 kW / 35 Nm	
Speed	30000 rpm	HSK A 50	○
Main power/Torque	20% c.d.f.	37 kW / 35 Nm	
Speed	42000 rpm	HSK E 40	
Main power/Torque	20% c.d.f.	35 kW / 17.5 Nm	

Control unit

Heidenhain	TNC7	●
Siemens	SINUMERIK ONE	○

Tool changer (pick-up)

Interface	HSK A 63 ●	HSK A 50 ○	HSK E 40 ○
Magazine pockets	55	65	65
Chip-to-chip time*	approx. 4.5 s	approx. 4.5 s	approx. 4.5 s
Max. tool length	250 mm	250 mm	250 mm
Max. tool diameter with corresponding adjacent pocket allocation	Ø 80 mm Ø 125 mm	Ø 70 mm Ø 125 mm	Ø 70 mm Ø 125 mm
Max. tool weight	8 kg	6 kg	2.5 kg
Max. magazine load	220 kg	195 kg	163 kg

Extension of tool storage capacity	Additional tool magazine ZM 50 (HSK A 63 / HSK A 50 / HSK E 40)			Additional 50 pockets	○
	Additional tool magazine ZM 88 k (HSK A 63 / HSK A 50 / HSK E 40)			Additional 88 pockets	○
	Additional tool magazine single ZM 216 (HSK A 63 / HSK A 50)			Additional 216 pockets	○
	Additional tool magazine double ZM 528 (HSK A 63 / HSK A 50)			Additional 528 pockets	○
	Interface	HSK A 63	HSK A 50	HSK E 40	
	Max. tool length	250 mm	250 mm	250 mm	
	Max. tool diameter with corresponding adjacent pocket allocation	Ø 80 mm Ø 125 mm	Ø 70 mm Ø 125 mm	Ø 70 mm Ø 125 mm	
	Max. tool weight	8 kg	6 kg	2.5 kg	
Table variants*	Swivelling rotary table	Ø 320	○	Ø 320	○
	Clamping surface	Ø 320 mm		Ø 320 mm	
	Swivelling range	+/- 135°		+/- 135°	
	C-axis drive mode	torque		worm	
	Swivelling axis A speed				
	One-sided drive	25 rpm		25 rpm	
	Tandem drive	55 rpm		-	
	Rotary axis C speed	80 rpm		40 rpm	
	Max. table load	150 kg		300 kg	
	T grooves star-shaped	4 units / 14 H7		4 units / 14 H7	
	Clamping surface	-		Ø 450 x 360 mm	
	System table (can be extended with table plate)	Ø 320 mm		Ø 320 mm / Ø 450 x 360 mm	
	Zero-point system / pallet clamping system				
	Installation clamping device	-		SK 50	
	Installation clamping device	-		HSK 100	
	Rigid clamping table				●
	Clamping surface			600 x 630 mm	
	Max. table load			750 kg	
	T grooves parallel			10 units / 14 H7	

● Included in standard delivery
○ Available upon request

*All machining tables available on demand

Positioning uncertainty	A 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.)	≤ 0.006 mm ●
Chip slide	Space-saving mounting on the left or right	●
Chip conveyor	Scraper belt conveyor	○
	Hinged belt conveyor	Advanced / Advanced 250 ○
	Chip conveyor ejection height	at least 940 mm
	Chip cart	450 l
External cooling lubricant supply	Capacity of standard tank with chip chute	210 l ●
	Capacity of standard tank with chip conveyor	280 l ○
Internal cooling lubricant supply with Paper band filter	Capacity of standard tank chip conveyor left/right	40 l ○
	Capacity of standard tank chip conveyor back	160 l ○
	Capacity of cooling lubricant tank	800 l
	Pressure (manually adjustable up to)	max. 40 bar / 27 l/min max. 80 bar / 12 l/min
	Mains connection (ICS)	400 V / 50 Hz 460 V / 60 Hz
	Power consumption (ICS)	up to 12,5 kVA
	Power consumption (ICS with temperature controller)	up to 6,0 kVA
Hydraulics	Operating pressure	120 bar ●
Central lubrication	Minimum grease lubrication quantity	●
Connected loads (machine)	Mains connection	400 V / 50 Hz 460 V / 60 Hz
	Power consumption	up to 56 kVA
	Compressed air	6 bar
Weight	(standard version without optional extras, workpieces and cooling lubricant)	Approx. 9 t

● Included in standard delivery

○ Available upon request

