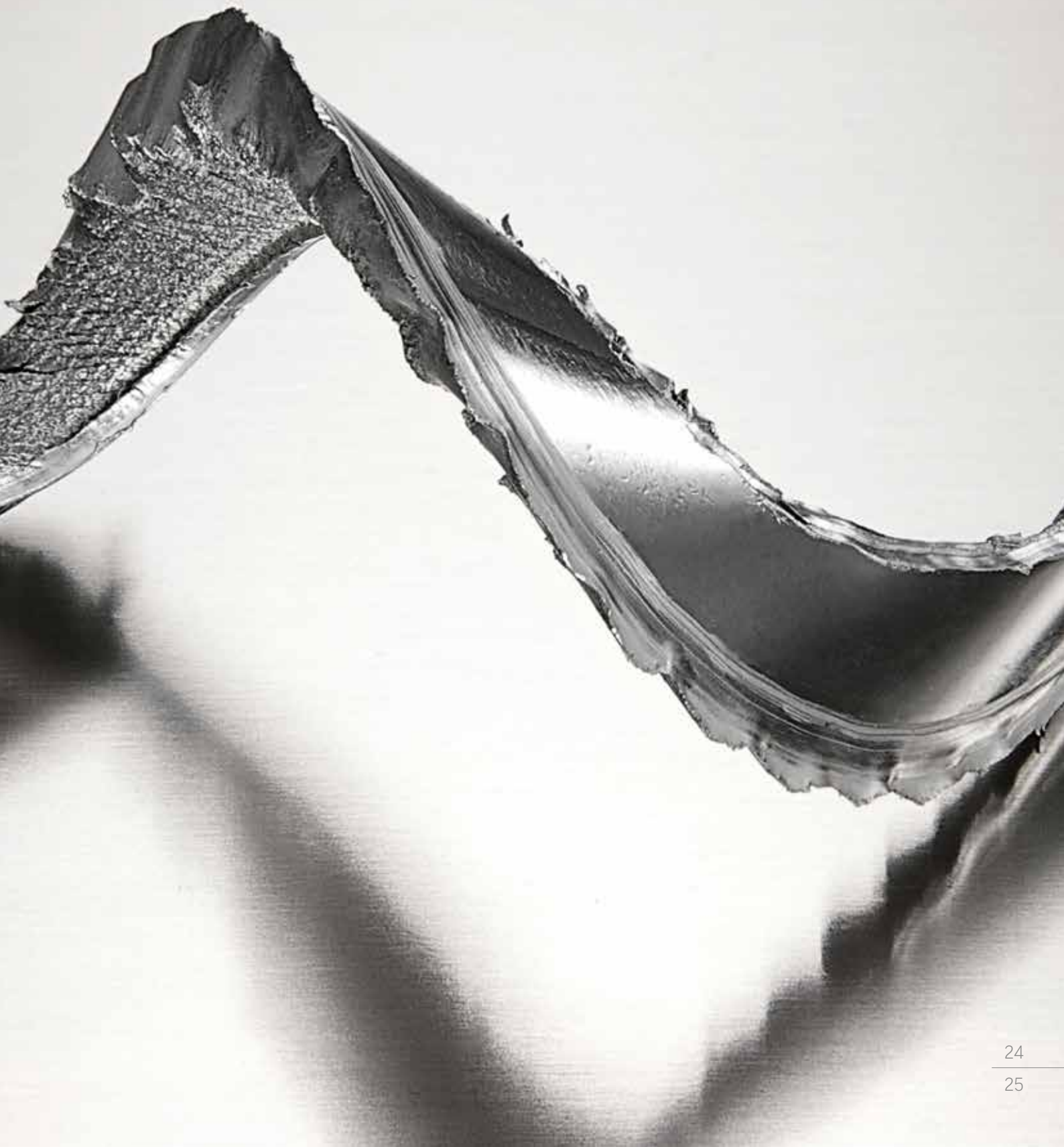


03

Technical data . C 12





03.1

Technical data . C 12

Working area	Traverse	X-axis	350 mm	
	Traverse	Y-axis	440 mm	
	Traverse	Z-axis	330 mm	
	Rapid linear traverse (dynamic)	X-Y-Z	30 (50) m/min	
	Linear acceleration (dynamic)	X-Y-Z	4 (8) m/s ²	
	Linear feed force	X-Y-Z	3000 N	
	Max. vertical table clearance		430 mm	
	Max. workpiece diameter		Ø 320 mm	
	Max. workpiece height		265 mm	
	Collision circle (A-axis) in 0° position		Ø 610 mm	
Main spindle drive	Speed	12000 rpm	SK 40 / HSK A 63 ●	
	Main power/Torque	20% c.d.f.	31 kW / 98 Nm	
	Speed	15000 rpm	SK 40 ○	
	Main power/Torque	20% c.d.f.	31 kW / 98 Nm	
	Speed	18000 rpm	HSK A 63 ○	
	Main power/Torque	20% c.d.f.	31 kW / 98 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	Heidenhain		TNC 640 / TNC7 ●	
Tool changer (pick-up)	Interface	HSK A 63 / SK 40 / HSK A 50 ● HSK E 40 ○		
	Magazine pockets		36 items ●	
	Additional tool magazine ZM 35		35 items ○	
	Chip-to-chip time		approx. 4.5 s	
	Max. tool length		200 mm	
	Max. tool diameter with with corresponding adjacent pocket allocation		Ø 80 mm	
	Max. tool weight	8 kg / 8 kg / 6 kg		2.5 kg
	Max. magazine load			144 kg

● Included in standard delivery

○ Available upon request

Swivelling rotary table	Swivelling rotary table	Ø 320	●
	Clamping surface	Ø 320 mm	
	Swivelling range	+/- 115°	
	C-axis drive mode	Torque	
	Swivelling axis A speed standard (dynamic)	25 (55) rpm	
	Rotary axis C speed standard (dynamic)	40 (80) rpm	
	Max. table load	100 kg	
	T grooves star-shaped	4 / 14 H7	
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	Removable chip slide		●
Chip conveyor	Scraper belt conveyor		○
	ejection height chip cart	at least 960 mm 450 l	○
External cooling lubricant supply	With chip slide and cooling lubricant tank		●
	Base container capacity chip slide	236 l	
	Base container capacity chip conveyor	325 l	
Internal cooling lubricant supply with paper band filter	Capacity of base container	120 l	120 l ○
	Capacity of cooling lubricant tank	570 l	750 l
	Pressure (adjustable up to)	max. 40 bar / 27 l/min	max. 80 bar / 11 l/min
	Mains connection (ICS)	-	400 V / 50/60 Hz
	Power consumption (ICS)	-	up to 20 kVA
	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 46 kVA	
	Compressed air	6 bar	
Weight	(Standard version without optional extras, attachments, workpieces and cooling lubricant)	about 7.2 t	