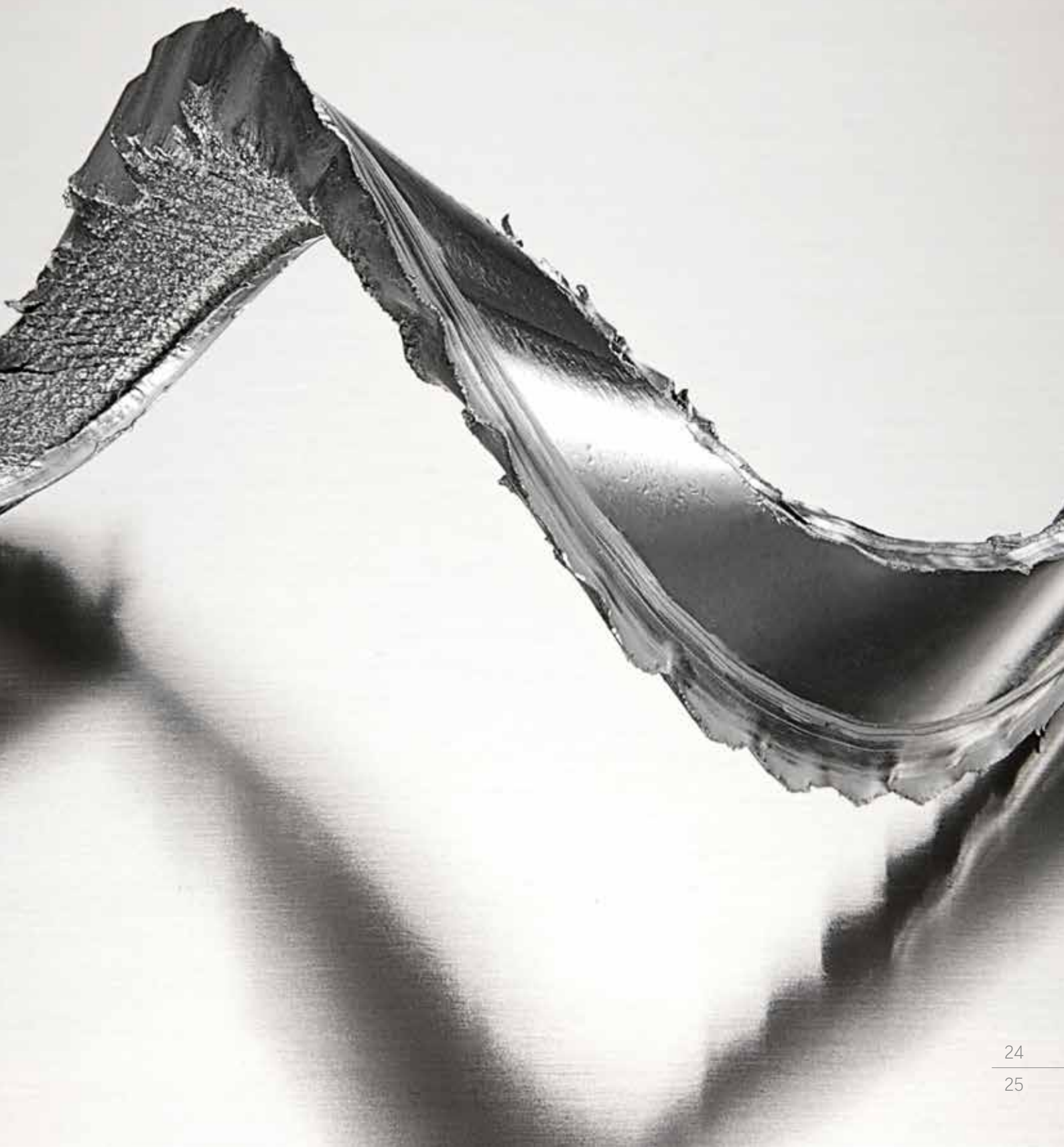


03

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 m/min (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 ●
Tool changer (pick-up)	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		Ø 80 mm
	Max. magazine load		144 kg
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

Positional uncertainty	P 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 than 6 µm.)	0.008 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 Base container capacity chip conveyor	236 l 325 l	●
Internal cooling lubricant supply with paper band filter	Capacity of base container	100 l	100 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)	-	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	to 46 kVA	
	Compressed air	6 bar	
Weight	(Standard version without optional extras, attachments, workpieces and cooling lubricant)	about 7.2 t	

- Included in standard delivery
- Available upon request