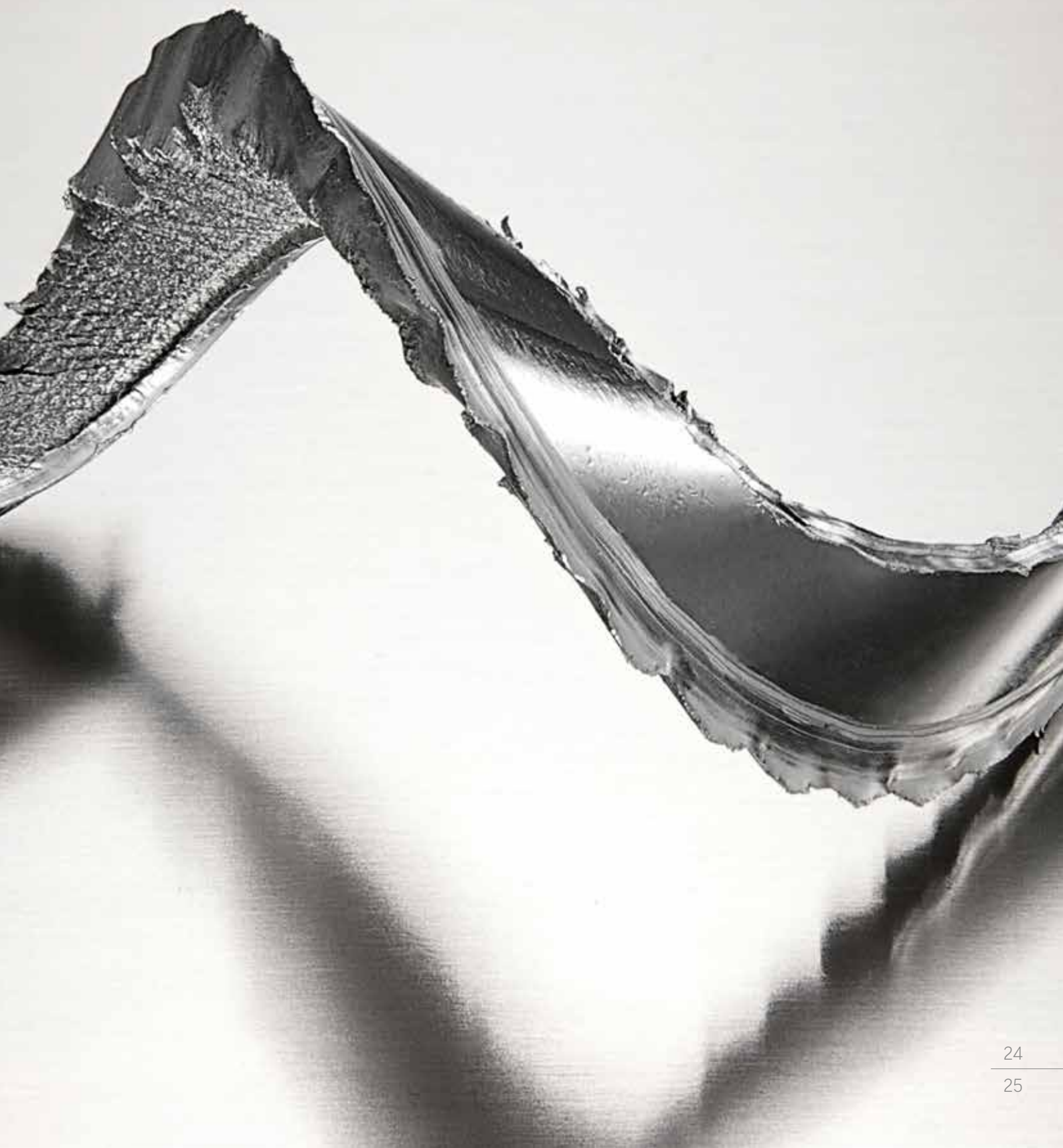


03

Technical data C 12 GEN2





03.1

Technical data C 12 GEN2

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	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 / 18 Nm
Control	Heidenhain		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 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	●	
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	70 l	70 l	○
	Capacity of cooling lubricant tank	800 l	800 l	
	Pressure (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 46 kVA		
	Compressed air	6 bar		
Weight	(Standard version without optional extras, attachments, workpieces and cooling lubricant)	about 7.2 t		