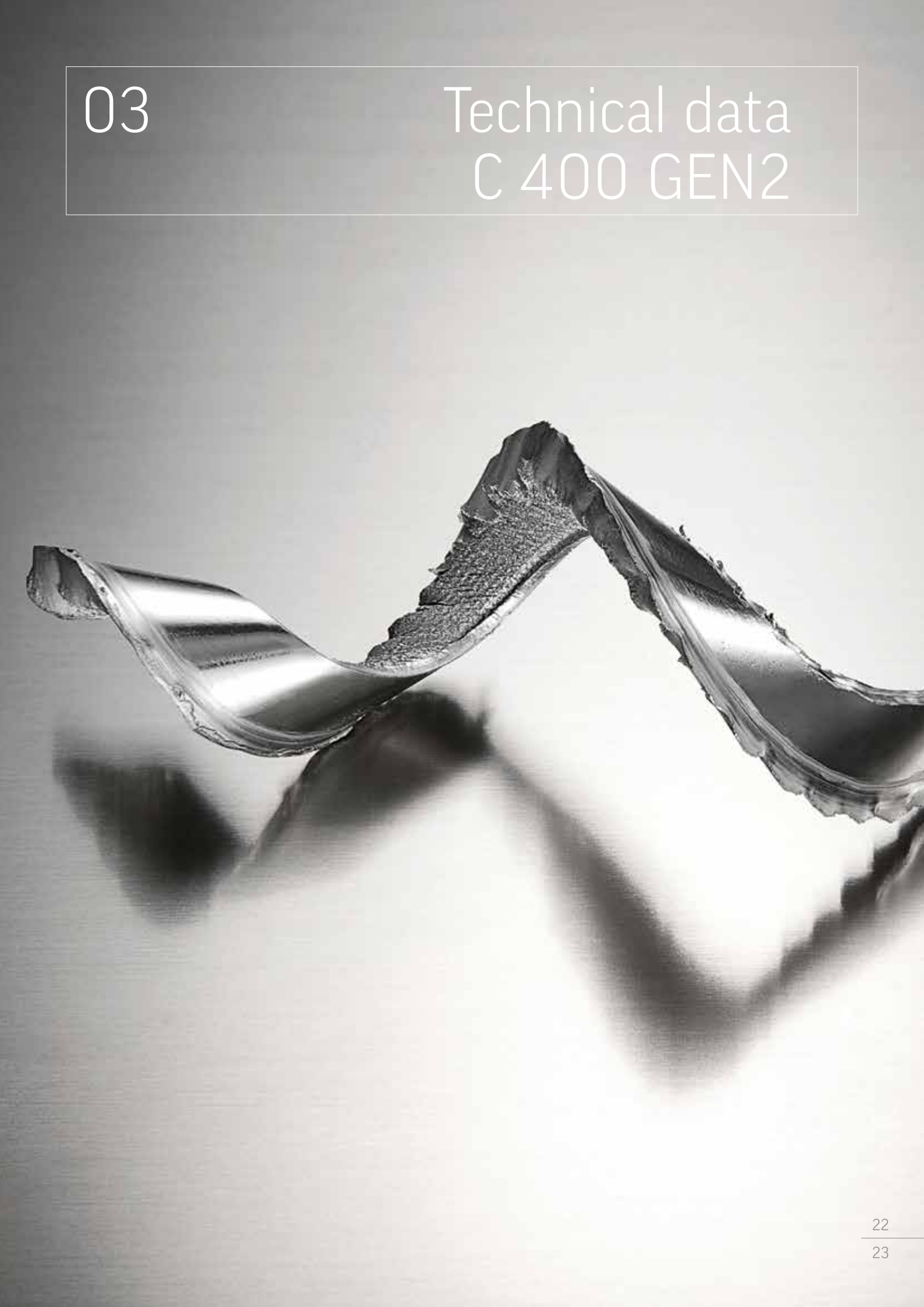
03 Technical data C 400 GEN2



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Working area	Traverse	X-axis	850 mm	
	Traverse	Y-axis	700 mm	
	Traverse	Z-axis	500 mm	
	Rapid linear traverses	X-Y-Z	35 - 35 - 35 m/min	
	Linear acceleration	X-Y-Z	6 m/s²	
	Linear feed force	X-Y-Z	7000 N	
	Max. vertical table clearance		625 mm	
	Max. workpiece diameter		Ø 650 mm	
	Max. workpiece height		500 mm	
	Collision circle (A-axis) in 0° position		Ø 885 mm	
Main spindle drive	Speed Main power/torque	15000 rpm 20% c.d.f.	SK 40 20 kW / 173 Nm	○
	Speed Main power/torque	16000 rpm 20% c.d.f.	HSK A 63 20 kW / 173 Nm	●
	Speed Main power/torque	20000 rpm 20% c.d.f.	HSK A 63 42 kW / 148 Nm	○
Control unit	Heidenhain		TNC7	●
Tool changer (pick-up)	Interface		SK 40 / HSK A 63	●
	Magazine pockets		38 items	
	Chip-to-chip time		approx. 6 s	
	Maximum tool length		300 mm	
	Max. tool diameter with corresponding adjacent pocket allocation		Ø 80 mm Ø 125 mm	
	Max. tool weight		8 kg	
	Max. magazine load		152 kg	
Extension of tool storage capacity	Additional tool magazine ZM 30 (SK 40 / HSK A 63)		additional 30 pockets	○
	Additional tool magazine ZM 50 (SK 40 / HSK A 63)		additional 50 pockets	○
	Additional tool magazine ZM 88 k (SK 40 / HSK A 63)		additional 88 pockets	○
	Additional tool magazine single ZM 216 (HSK A 63)		additional 216 pockets	○
	Maximum tool length		300 mm	
	Max. tool diameter in the additional tool magazine		Ø 80 mm	○
	Max. tool diameter with corresponding adjacent pocket allocation in additional tool magazine		Ø 125 mm	
	Max. tool weight		8 kg	

● Included in standard delivery
○ Available upon request

Chip drawer	Removable chip drawer			●
Chip conveyor	Scraper belt			○
	Hinged belt conveyor		Advanced / Advanced 250	○
	Ejection height		at least 940 mm	
	Chip cart		450 l	
External cooling lubricant supply	Capacity of standard tank		290 l	●
Internal cooling lubricant supply with paper band filter	Capacity of standard tank		170 l	○
	Capacity of cooling lubricant tank		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 (temperature controller)		up to 6,0 kVA	

Table variants	Swivelling rotary table	Ø 440	Ø 650 x 540	Rigid clamping table
	Clamping surface	Ø 440 mm	Ø 650 x 540 mm	1070 x 700 mm
	Swivelling range	+91° / -139°	+91° / -139°	-
	C-axis drive mode	Worm	Worm	-
	Swivelling axis A speed: One-sided drive	 25 rpm	 25 rpm	 -
	Speed rotary axis C:	30 rpm	30 rpm	-
	Max. table load One-sided drive	- 450 kg	- 600 kg	2000 kg -
	T grooves parallel	5 / 14 H7	7 / 14 H7	10 / 14 H7
	Secondary clamping plates T grooves parallel	920 x 490 mm 7 / 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	●
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 44 kVA	
	Compressed air	6 bar	
Weight	(standard version without optional extras, attachments, work-pieces and cooling lubricant)	approx. 9.5 t	