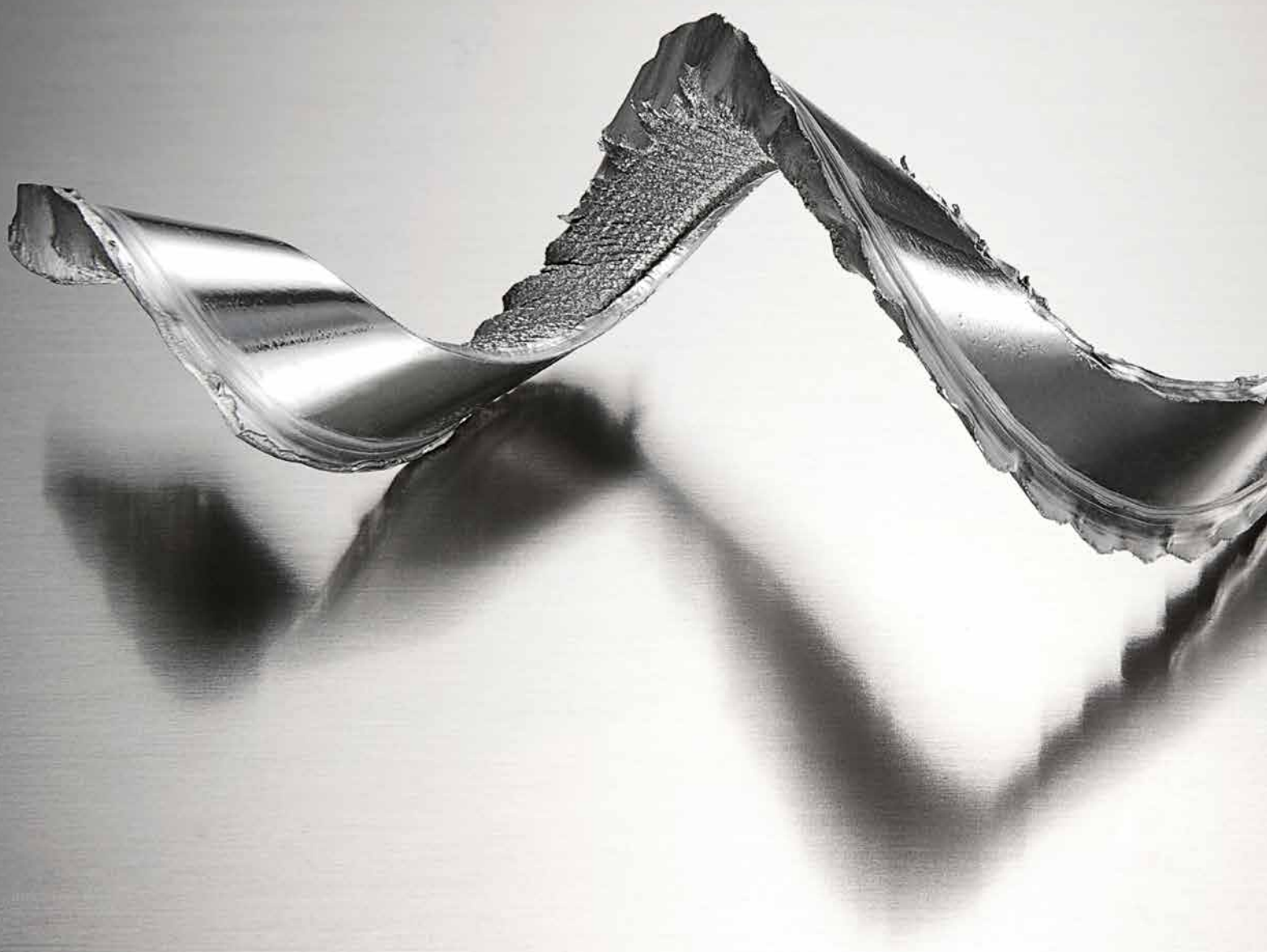


03

Technical data C 650 GEN2



03.1

Technical data C 650 GEN2

Working area	Traverse	X-axis	1050 mm
	Traverse	Y-axis	900 mm
	Traverse	Z-axis	600 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		775 mm
	Max. workpiece diameter		Ø 900 mm
	Max. workpiece height		600 mm
	Collision circle (A-axis) in 0° position		Ø 1100 mm
Main spindle drive	Speed	15000 rpm	SK 40 ○
	Main power/Torque	20% c.d.f.	20 kW / 173 Nm
	Speed	16000 rpm	HSK A 63 ●
	Main power/Torque	20% c.d.f.	20 kW / 173 Nm
	Speed	20000 rpm	HSK A 63 ○
	Main power/Torque	20% c.d.f.	42 kW / 148 Nm
Control unit	Heidenhain		TNC7 ●
Tool changer (pick-up)	Interface		SK 40 / HSK A 63 ●
	Magazine pockets		42 items
	Chip-to-chip time		approx. 6 s
	Maximum tool length		350 mm
	Max. tool diameter		Ø 80 mm
	with corresponding adjacent pocket allocation		Ø 125 mm
	Max. tool weight		8 kg
	Max. magazine load		168 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 ○
	Additional tool magazine double ZM 528 (HSK A 63)		additional 528 pockets ○
	Max. tool diameter		Ø 80 mm
	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 conveyor		○
	Hinged belt conveyor	Advanced / Advanced 250	○
	Ejection height	at least 940 mm	
	Chip cart	450 l	
External cooling lubricant supply	Capacity of standard tank	315 l	●
Internal cooling lubricant supply with paper band filter	Capacity of standard tank	110 l	○
	Capacity of cooling lubricant tank	860 l with 40 bar / 860 l with 80 bar	
	Pressure (adjustable up to)	max. 40 bar / 27 l/min max. 80 bar / 22 l/min	○
	Power consumption (ICS)	up to 12.5 kVA	
	Power consumption (temperature controller)	up to 6,0 kVA	
Table variants		Swivelling rotary table	Rigid clamping table
	Clamping surface	Ø 900 x 750 mm	1250 x 982 mm
	Swivelling range	+ / -115°	-
	C-axis drive mode	Worm	-
	Swivelling axis A speed: Tandem drive	25 rpm	-
	Speed rotary axis C:	25 rpm	-
	Max. table load	1500 kg	3000 kg
	T grooves parallel	7 / 18 H7	9 / 18 H7
Positional 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 49 kVA	
	Compressed air	6 bar	
Weight	(standard version without optional extras, attachments, work- pieces and cooling lubricant)		approx. 15,4 t