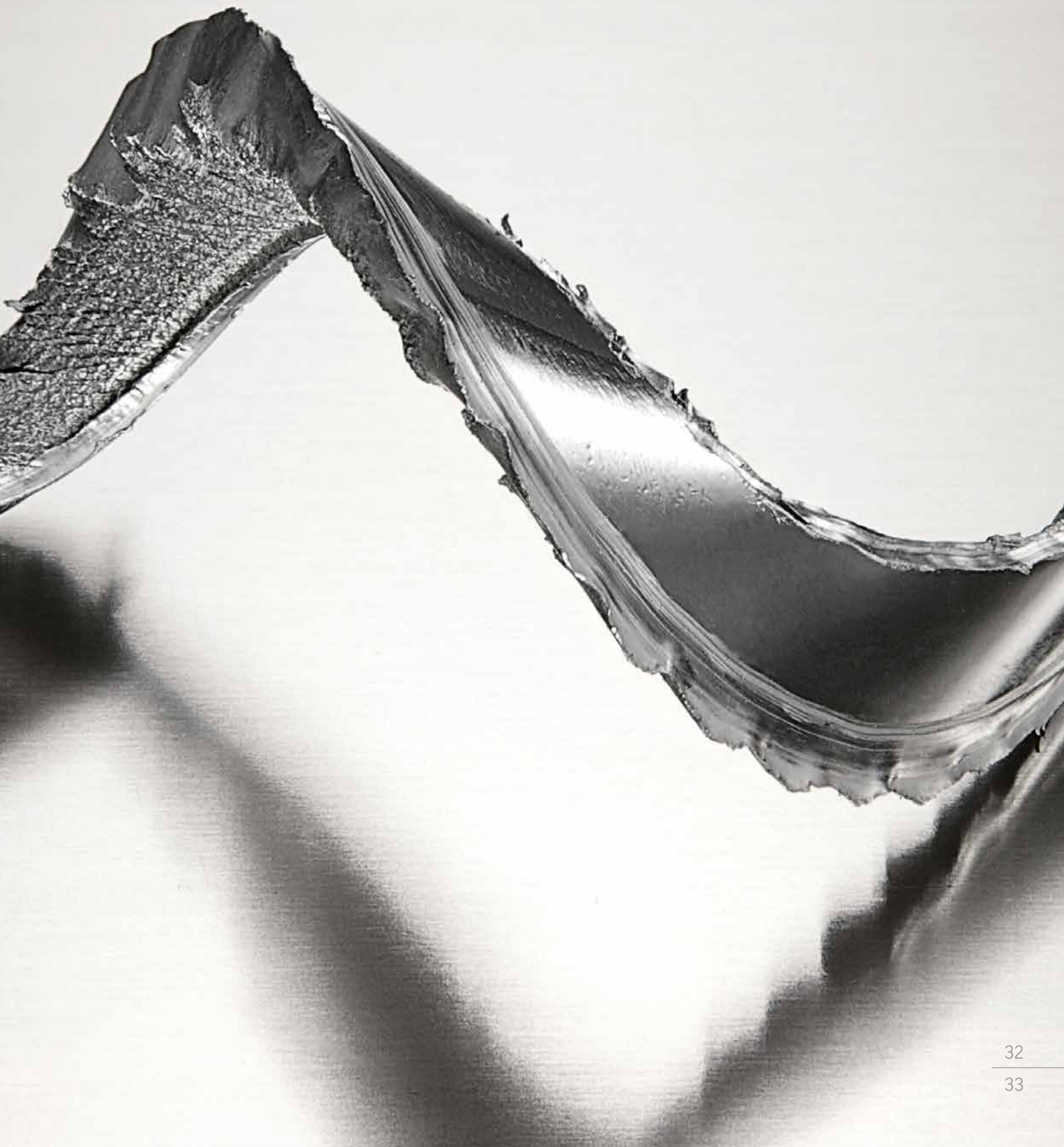


03

Technical data . C 32 GEN2





# 03.1

## Technical data . C 32 GEN2

<b>Working area</b>	Traverse	X-axis	650 mm
	Traverse	Y-axis	650 mm
	Traverse	Z-axis	500 mm
	Rapid linear traverse (dynamic)	X-Y-Z	45 - 45 - 40 m/min (60 - 60 - 60 m/min)
	Linear acceleration (dynamic)	X-Y-Z	6 (10) m/s <sup>2</sup>
	Linear feed force	X-Y-Z	8500 N
	Max. vertical table clearance		600/635 mm
	Max. workpiece diameter		Ø 650 mm
	Max. workpiece height		420 mm
	Collision circle (A-axis) in 0° position		Ø 840 mm
<b>Main spindle drive</b>	Speed	15000 rpm	SK 40 ○
	Main power/Torque	20% c.d.f.	42 kW / 148 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
	Speed	25000 rpm	HSK A 63 ○
	Main power/Torque	20% c.d.f.	31 kW / 98 Nm
	Speed	42000 rpm	HSK E 40 ○
	Main power/Torque	20% c.d.f.	35 kW / 17,5 Nm
<b>Control unit</b>	Heidenhain		TNC7 ●
	Siemens		SINUMERIK ONE ○
<b>Tool changer (pick-up)</b>	Interface	HSK A 63 ●	HSK E 40 ○
	Magazine pockets	36 items	36 items
	Chip-to-chip time	approx. 4.5 s	approx. 4.5 s
	Max. tool length	350 mm	350 mm
	Max. tool diameter for free adjacent pockets	Ø 80 mm Ø 125 mm	Ø 80 mm Ø 125 mm
	Max. tool weight	8 kg	2.5 kg
	Max. magazine load	144 kg	90 kg

- Included in standard delivery
- Available upon request

**Extension of  
tool storage capacity**

Additional magazine ZM 30 (HSK A 63 / HSK E 40)	Additional 30 pockets ○	
Additional magazine ZM 50 (HSK A 63 / HSK E 40)	Additional 50 pockets ○	
Additional magazine ZM 88 k (HSK A 63 / HSK E 40)	Additional 88 pockets ○	
Additional magazine single ZM 216 (HSK A 63)	Additional up to 216 pockets ○	
Additional magazine double ZM 528 (HSK A 63)	Additional up to 528 pockets	
Interface	SK 40 / HSK A 63	HSK E 40
Maximum tool diameter with corresponding adjacent pocket allocation	Ø 80 mm Ø 125 mm	Ø 80 mm Ø 125 mm
Max. tool weight	8 kg	2.5 kg

**Table variants\***

Swivelling rotary table	Ø 320	Ø 320	Ø 320
Clamping surface	Ø 320 mm		Ø 320 mm
Swivelling range	+/- 130°		+/- 130°
C-axis drive mode	Worm		Torque
Swivelling axis A speed			
One-sided drive	25 rpm		25 rpm
Tandem drive	-		55 rpm
Rotary axis C speed	40 rpm		80 rpm
Max. table load			
One-sided drive	300 kg		200 kg
Tandem drive	-		200 kg
Star-shaped T grooves	4 / 14 H7		4 / 14 H7
Clamping surface	Ø 450 x 360 mm		-
Secondary clamping plates	760 x 370 mm		760 x 370 mm
T grooves parallel	5 / 14 H7		5 / 14 H7
Swivelling rotary table	Ø 650	Ø 650	Rigid ● clamping table
Clamping surface	Ø 650 x 540 mm	Ø 650 x 540 mm	900 x 665 mm
Swivelling range	+/- 130°	+/- 130°	-
C-axis drive mode	Worm	Torque	-
Swivelling axis A speed			
with one-sided drive	25 rpm	25 rpm	-
Tandem drive	-	25 rpm	-
Rotary axis C speed	30 rpm	65 rpm	-
Max. table load			1500 kg
One-sided drive	600 kg	600 kg	-
Tandem drive	-	1000 kg	-
T grooves parallel	7 / 14 H7	7 / 14 H7	10 / 14 H7

\*All machining tables available on demand

<b>Positioning uncertainty</b>	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	●
<b>Chip drawer</b>	Removable chip drawer		●
<b>Chip conveyor</b>	Scraper belt conveyor		○
	Hinged belt conveyor	Advanced / Advanced 250	○
	Ejection height	mind. 940 mm	
	Chip cart	450 l	○
<b>External cooling lubricant supply</b>	With chip drawer and cooling lubricant tank Cooling lubricant tank capacity		360 l ●
<b>Internal cooling lubricant supply with paper band filter</b>	Capacity of standard tank		80 l ○
	Capacity of cooling lubricant tank	860 l at 80 bar / 860 l at 40 bar	
	Pressure (adjustable up to)	max. 40 bar / 27 l/min max. 80 bar / 22 l/min	
	Mains connection (ICS)	400 V / 50/60 Hz	
	Power consumption (ICS)	up to 12.5 kVA	
	Power consumption (temperature controller)	up to 6,0 kVA	
<b>Hydraulics</b>	Operating pressure	120 bar	●
<b>Central lubrication</b>	Minimum grease lubrication quantity		●
<b>Connected loads (machine)</b>	Mains connection	400 V / 50/60 Hz	
	Power consumption	up to 54 kVA	
	Compressed air	6 bar	
<b>Weight</b>	(Standard version without optional extras, attachments, workpieces and cooling lubricant)	about 11.0 t	

● Included in standard delivery

○ Available upon request



