

Technical data

Working area	Traverse	X axis	1,200 mm	
	Traverse	Y axis	900 mm	
	Traverse	Z axis	500 mm	
	Linear rapid traverse	X-Y-Z	30 m/min	
	Linear acceleration	X-Y-Z	4 m/s ²	
	Linear feed force	X-Y-Z	10,000 N	
Main spindle drive	Speed	10,000 rpm.	SK 40 / HSK A 63	■
	Main power / torque	20% c.d.f.	32 kW / 200 Nm	
	Speed	16,000 rpm.	SK 40 / HSK A 63	●
	Main power / torque	40% c.d.f.	15 kW / 130 Nm	
	Speed	24,000 rpm.	HSK A 63	●
	Main power / torque	40% c.d.f.	23 kW / 79 Nm	
Control unit	Heidenhain		iTNC 530	■
Tool changer (pick-up)	Magazine pockets		30	■
	chip-to-chip time*		approx. 6,5 s	
	*(chip-to-chip times were determined in accordance with VDI 2852, sheet 1 in a 3-axis design)			
	Maximum tool length		300 mm	
	Maximum tool diameter		Ø 80 mm	
	Maximum tool diameter with corresponding adjacent pocket allocation		Ø 125 mm	
	Maximum magazine load at 30 units		120 kg	
Extension of tool storage capacity	Additional magazine		57 pockets	●
	Maximum tool diameter in additional magazine		Ø 80 mm	
	Maximum tool diameter with corresponding adjacent pocket allocation in additional magazine		Ø 125 mm	
	Maximum tool weight		8 kg	
Connection-values (machine)	Mains connection		400 V / 50 Hz	
	Power consumption		43 kVA	
	Compressed air		6 bar	
Weight	(Standard version)		ca. 12.7 t	
Transport dimensions C 1200 (basic machine)	Width		3,000 mm	
	Depth		4,000 mm	
	Height		2,800 mm	

Hermle AG reserves the right to carry out modifications without prior notification, which may lead to deviating technical data.

Table variants	Rigid clamping table		■
	Clamping surface	1,400 x 900 mm	
	Loading height	900 mm	
	Maximum table load	1,800 kg	
	T-grooves parallel	14 / 14 H7	
	Table plate, attachable 120 mm high	700 x 900 mm	●
	Table plates, set, attachable (2 parts) - side by side 120 mm high - on top of each other 240 mm high	1,400 x 900 mm 700 x 900 mm	●
Position measuring system direct	Resolution	0.0001 mm	■
Position tolerance	Tp in X-Y-Z-axis keeping German standard VDI/DGQ 3441 (determined at 20° Celsius +/- 1° Celsius constant ambient temperature. Our products are subject to German export laws and exports have to be approved as the achievable accuracy may be smaller / equal than 6 µm.)	0.010 mm	■
Volume of coolant	Amount of coolant	300 l	■
Through the spindle coolant supply with paper tape filter	Amount of coolant	600 l	●
	Pressure (infinitely variable manual)	max. 40 bar / 40 l/min	
Chip conveyor	Scraper belt		■
	Ejection height of swarf conveyor	1,000 mm	
	Chip cart	450 l	●
Hydraulic system	Operating pressure	120 bar	■
Central lubrication system	Minimum quantity lubrication		■

Options

Closed cabin top	■
Internal table flushing	■
Chip conveyor	■
Chip cart	●
Blowing attachment	●
Rotating clear-view window	●
Electrical heat compensation X/Z	●
Electrical hand-held control module	●
Touch probe including preparation	●
Preparation for touch probe	●
Tool breakage monitoring / measuring system	●
Coolant nozzle	●
Oil mist extractor	●
Air purge for linear scales	●

■ standard equipment

● to order