

Technical Data

Working area	Traverse	X axis	1,200 mm
	Traverse	Y axis	1,300 mm
	Traverse	Z axis	900 mm
	Linear rapid traverse	X-Y-Z	50 m/min
	Linear acceleration	X-Y-Z	6 m/s ²
	Linear feed force	X-Y-Z	16,000 N
	Width across flats		1,100 mm
	Diameter of permissible workpiece		Ø 1,200 mm
	Height of permissible workpiece		900 mm

Main spindle drive	Speed	9,000 rpm.	SK 50	●
	Main power / torque	20% c.d.f.	56 kW / 356 Nm	
	Speed	9,000 rpm.	HSK A 100	●
	Main power / torque	20% c.d.f.	41 kW / 476 Nm	
	Speed	10,000 rpm.	HSK A 63	●
	Main power / torque	20% c.d.f.	23 kW / 298 Nm	
	Speed	12,000 rpm.	HSK A 100	●
	Main power / torque	20% c.d.f.	56 kW / 356 Nm	
	Speed	15,000 rpm.	SK 40	●
	Main power / torque	20% c.d.f.	35 kW / 215 Nm	
	Speed	18,000 rpm.	HSK A 63	■
	Main power / torque	20% c.d.f.	35 kW / 215 Nm	

Control unit	Heidenhain	iTNC 530	■
	Siemens	Sinumerik 840 D SL	●

Tool changer (pick up)	Interface	SK 40 / HSK A 63	SK 50 / HSK A 100	●
	Magazine pockets	70	50	
	Chip-to-chip time*	approx. 9.5 s	approx. 9.5 s	
	*(chip-to-chip times were determined in accordance with VDI 2852, sheet 1)			
	Maximum tool length	500 mm	500 mm	
	Maximum tool diameter	Ø 160 mm	Ø 250 mm	
	Maximum magazine load	560 kg	550 kg	

Connection-values (machine)	Mains connection	400 V / 50 Hz	400 V / 50 Hz
	Power consumption	78 kVA	90 kVA
	Compressed air	6 bar	6 bar

Weight	(Standard version)	approx. 30.0 t
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Transport dimensions C 60 (basic machine)	Width	3,500 mm
	Depth	5,600 mm
	Height	4,870 mm

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

Table variants	NC-controlled swivelling rotary table	Ø 900 ●	Ø 1,350 ●
	Clamping surface	Ø 900 mm	Ø 1,350 mm
	2 sided flattened to	-	1,100 mm
	Swivel range	+ 130° / - 130°	+ 130° / -130°
	Speed - swivelling axis A	15 rpm.	15 rpm.
	Speed - rotary axis C	30 rpm.	30 rpm.
	Maximum table load	2,500 kg	2,500 kg
	T-grooves parallel	7 / 18H7	11 / 22H7
Position measuring system direct	Resolution		0.0001 mm ■
Position tolerance	Tp in X-Y-Z-axis keeping with 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.)		0.008 mm ■
Coolant system	Amount of coolant		550 l ■
	Pump performance		5 bar / 80 l/min
Internal coolant supply with paper tape filter	Amount of coolant		1,500 l ●
	Pressure (infinitely variable manuel)		max. 80 bar / 26 l/min
	Mains connection		400 V / 50 Hz
	Power consumption		18.5 kVA
Chip conveyor	Scraper belt		■
	Hinged belt conveyor		●
	Ejection height of chip conveyor		1,100 l
	Chip cart		450 l ●
Hydraulic system	Operating pressure		120 bar ■
Central lubrication system	Minimum quantity lubrication		■

Options

Automatic cabin door	●
Rotating clear-view window	●
Electrical heat compensation	●
Electrical hand-held control module	●
Touch probe including preparation	●
Preparation for touch probe	●
Tool breakage monitoring / measuring system	●
Coolant nozzle	●
Minimal quantity lubrication internal + external	●
Air blast through the spindle centre	●
Bed flushing	●
BDE signal	●
Oil mist extractor	●
Air purge for linear scales	●
Status lamp	●

For technical data of the MT version, please see the brochure "MT Series"

- standard equipment
- to order