

## Technical Data H 5000 / H 6000

			H 5000	H 6000
<b>Working area</b>	Longitudinal stroke (X-axis)	mm	800	1,000
	Vertical stroke (Y-axis)	mm	800	1,000
	Transverse stroke (Z-axis)	mm	800	1,000
<b>Feed thrusts</b>	X- and Y-axis with duty cycle = 40 %	N	15,000	15,000
	Z-axis with duty cycle = 40 %	N	20,000	20,000
<b>Speeds</b>	in X-, Y- and Z-axis / rapid traverse	mm/min	50,000 / 60,000	50,000 / 60,000
	Acceleration	m/s <sup>2</sup>	5.0 / 7.0	5.0 / 7.0
<b>Spindle unit</b>	Spindle taper	SK / HSK / BT	50 / A100 / 50	50 / A100 / 50
<b>PowerCutting</b>	Drive power/torque (max.) with duty cycle = 40 %	kW/Nm	43 / 822	43 / 822
	Speed	1/min	8,000	8,000
	Spindle diameter in front bearing	mm	100	100
<b>HighPowerCutting</b>	Drive power/torque (max.) with duty cycle = 40 %	kW/Nm	60 / 2,292	60 / 2,292
	Speed	1/min	6,000	6,000
	Spindle diameter in front bearing	mm	110	110
<b>SpeedCutting</b>	Drive power/torque (max.) with duty cycle = 40 %	kW/Nm	52 / 166	52 / 166
	Speed	1/min	12,500	12,500
	Spindle diameter in front bearing	mm	100	100
<b>PowerSpeedCutting</b>	Drive power/torque (max.) with duty cycle = 40 %	kW/Nm	52 / 500	52 / 500
	Speed	1/min	12,500	12,500
	Spindle diameter in front bearing	mm	100	100
<b>Tool magazine</b>	Max. admissible tool mass	kg	25	25
	Min. chip-to-chip time to VDI	s	4.0 / 3.6	4.2 / 3.8
<b>Chain-type magazine</b>	Tool places	number	50 / 100	50 / 100
	Max. tool length	mm	600	600
	Max. tool diameter	mm	280	280
<b>Rack-type magazine</b>	Tool places	number	260 / 420	260 / 420
	Max. tool length	mm	600	600
	Max. tool diameter	mm	280	280
<b>Rotary table</b>	Indexing division rotary feed/indexing table	degrees	360,000 x 0.001°	360,000 x 0.001°
	Indexing accuracy Tp (to VDI/DGQ 3441)	arc s	10	10
	Rotational speed	1/min	25	25
<b>Pallet changer</b>	Working surface	mm x mm	630 x 630	630 x 630
	Max. workpiece diameter	mm	900	900
	Max. workpiece height	mm	1,090	1,290
	Max. loading capacity	kg	1,400 / 1,000	1,400 / 1,000
	Pallet change time	s	13	13
<b>Measuring system</b>	Direct linear scales in X-, Y- and Z-axis with highest resolution			
	Positioning tolerance Tp (to VDI/DGQ 3441)	mm	0.007	0.009
<b>Coolant unit</b>	Chip conveyor basic design			
	Coolant tank, paperband filter unit, capacity	litres	1,000	1,000
	Max. pressure	bars	12 / 50 / 70	12 / 50 / 70
	Coolant tank, vacuum rotation filter unit, capacity	litres	1,200	1,200
	Max. pressure	bars	50 / 70	50 / 70
<b>Installation data</b>	Length / Width / Height (with paperband filter unit)	mm	6,900 / 3,550 / 3,900	7,100 / 3,750 / 4,300
	Mass of machine	approx. kg	12,900	13,500
	Electrical capacity, machine	approx. kVA	40	40
	Electrical capacity, coolant unit	approx. kVA	26	26
	Mains connection	V / Hz	3 x 400 / 50	3 x 400 / 50
	Compressed air	bars	4.5 - 6	4.5 - 6
<b>Machine control</b>	Siemens SINUMERIK 840D sl		x	x
	Fanuc 310i-A		x	x

Subjects to change without notice. September 2008.