

TRAVELS			
X axis travel (length)	mm	1	1600-6000*
X travel working in 2 areas	mm	2	2x 515 - 2x 2715
Y axis travel (cross)	mm		800 1000
Z axis travel (vertical)	mm		900
NC head tilting range	°		+/- 105°
Maximum swing diameter	mm	3	1100 1300
TABLE			
Fixed table dimensions	mm		X axis travel + 400 mm L (1600/2200) & X axis travel + 600 mm (longer than 3000) / Y axis travel + 50 mm
Max. table load capacity	kg/m²		1500
Number of "T" slots			7
"T" slots size	mm		18 H7
Distance between "T" slots	mm		125
Min./max. Distance spindle nose/table	mm		V (0 ---- 900) - H (360 ---- 1260)
Table height	mm		975
MAIN SPINDLE			
Spindle taper			HSK A-63
Tool clamping force	N		HSK A-63 (18000)
Turning motor torque (continuous turning)	Nm		744
Hydraulic clamping for positioning (continuous turning)	Nm		6000
HEADSTOCK ELECTRO SPINDLE			
Maximum speed	rpm		12000
Power at 100% (S6 40%)	kW		Standard: 26 kW (35 kW)
Maximum torque at 100% (S6 40%)	Nm		Standard: 75 Nm (94 Nm)
CONTROLS			
Available digital controls			Fanuc - Siemens
FEED			
Feed thrust X/Y/Z 100% (S3 40%)	N		X: 11992 (17261) / Y: 8521 (11689) / Z: 7669 (10520)
Rapid feed for positioning X/Y/Z	m/min		45-48-48
Maximum working feed X/Y/Z	m/min		30
Rapid feed for positioning in B axis	rpm		13.8
ACCURACY VDI / DGQ3441			
Positioning accuracy Tp X-Y (1000 mm)	µm		10
Repeatability	µm		5
Measuring system on B axis			Encoder
Positioning accuracy Tp B	s		+/- 5"
CAPACITIES			
Milling capacity in steel St 60	cm³/min		900
Drilling capacity in steel St 60	Ø mm		50
Tapping capacity in steel St 60	mm		M33
TOOL MAGAZINE			
Number of tools (option)			24 (40-60)
Maximum tool length	mm		350
Maximum tool weight	kg		10
Maximum tool Ø with full magazine	mm		90 (65 with 60 ATC)
Maximum tool Ø with free spaces	mm		125
Tool changing time	s		6"
Chip to chip time	s		8"
GENERAL			
Machine painted in 3 colours	RAL		Grey 7021, Grey 9006, Violet 4008
Total power installed	kW		60
Power connection voltage	V		400V / 50 Hz
Required compressed air pressure	bar		6
Approximate net weight	kg	7	14500-29500 15500-32000
Machine length	mm	4	5850-11650
ROTARY TABLES FOR TURNING			
Vertical Ø 525 mm admissible max. weight 600 Kg +/- 2,5"			900 rpm / 34,2 kW / 328 Nm
Vertical Ø 800 mm admissible max. weight 1000 Kg +/- 5"			750 rpm / 25 kW / 1500 Nm
Vertical Ø 1000 mm admissible max. weight 1000 Kg +/- 2,5"			750 rpm / 25 kW / 1500 Nm
Vertical Ø 1250 mm admissible max. weight 3500 Kg +/- 2,5"			250 rpm / 40 kW / 3200 Nm
Horizontal Ø 250 mm admissible max. weight 250 Kg +/- 10"			2000/3000 rpm / 24 kW / 100 Nm
Horizontal Ø 340/ 400 mm admissible max. weight 350 Kg +/- 6"			850/1500 rpm / 31,2 kW / 350 Nm
Horizontal Ø 340/ 400 mm admissible max. weight 350 Kg +/- 6"			600/2700 rpm / 51,5 kW / 820 Nm
Horizontal Ø 400/450/ 500 mm admissible max. weight 350 Kg +/- 6"			530/1800 rpm / 78 kW / 1400 Nm
STANDARD EQUIPMENT			
Measuring by glass scales in X/Y/Z			
Chip conveyor and coolant tank			
Full protection guarding			
Movable control panel			
Automatic central lubrication system			
Lighting equipment			
Cooled electrical cabinet			
Air blowing for cone cleaning			
Headstock hydraulic counterbalance			
Vertical protection on the X axis			
MAIN OPTIONS			
Coolant through main spindle			
Dividing wall and NSM software			
*X axis travel 6000-12000 mm (with rack)			



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TRAVELS

X axis travel (length)	mm	1	1600-6000*
X travel working in 2 areas	mm	2	2x 465 - 2x 2665
Y axis travel (cross)	mm		800
Z axis travel (vertical)	mm		1100
NC head tilting range	°		+/- 105°
Maximum swing diameter	mm	3	1200

TABLE

Fixed table dimensions	mm		X axis travel + 400 mm L (1600/2200) & X axis travel + 600 mm (longer than 3000) / Y axis travel + 50 mm
Maximum table load capacity	kg/m²		2000
Number of "T" slots			7
"T" slots size	mm		18 H7
Distance between "T" slots	mm		125
Min./max. Distance spindle nose/table	mm		V (0 ---- 1100) - H (375 --- 1475)
Table height	mm		1075

MAIN SPINDLE

Spindle taper			HSK A-100
Tool clamping force	N		HSK A-100 (45000)
Turning motor torque (continuous turning)	Nm		744
Hydraulic clamping for positioning (continuous turning)	Nm		6000

HEADSTOCK ELECTRO SPINDLE

Maximum speed	rpm		10000 / Option: 6000
Power at 100% (S6 40%)	kW		Standard: 32 kW (50 kW) / Option: 35 kW (48 kW)
Maximum torque at 100% (S6 40%)	Nm		Standard: 180 Nm (281 Nm) / Option: 239 Nm (327 Nm)

CONTROLS

Available digital controls			Fanuc - Siemens
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FEED

Feed thrust X/Y/Z 100% (S3 40%)	N		X: 15021 (22971) / Y: 12154 (17255) / Z: 10649 (15529)
Rapid feed for positioning X/Y/Z	m/min		45
Maximum working feed X/Y/Z	m/min		30
Rapid feed for positioning in B axis	rpm		13,8

ACCURACY VDI / DGQ3441

Positioning accuracy Tp X-Y (1000 mm)	µm		10
Repeatability	µm		5
Measuring system on B axis			Encoder
Positioning accuracy Tp B	s		+/- 5"

CAPACITIES

Milling capacity in steel St 60	cm³/min		1100
Drilling capacity in steel St 60	Ø mm		70
Tapping capacity in steel St 60	mm		M45

TOOL MAGAZINE

Number of tools (option)			30 (40-60)
Maximum tool length	mm		400
Maximum tool weight	kg		20
Maximum tool Ø with full magazine	mm		125 (100 with 60 ATC)
Maximum tool Ø with free spaces	mm		175
Tool changing time	s		8"
Chip to chip time	s		10"

GENERAL

Machine painted in 3 colours	RAL		Grey 7021, Grey 9006, Violet 4008
Total power installed	kW		60
Power connection voltage	V		400V / 50 Hz
Required compressed air pressure	bar		6
Approximate net weight	kg	7	19000-34500
Machine length	mm	4	5850-11650

ROTARY TABLES FOR TURNING

Vertical Ø 525 mm admissible max. weight 600 Kg +/- 2,5"			900 rpm / 34,2 kW / 328 Nm
Vertical Ø 800 mm admissible max. weight 1000 Kg +/- 5"			750 rpm / 25 kW / 1500 Nm
Vertical Ø 1000 mm admissible max. weight 1000 Kg +/- 2, 5"			750 rpm / 25 kW / 1500 Nm
Vertical Ø 1250 mm admissible max. weight 3500 Kg +/- 2, 5"			250 rpm / 40 kW / 3200 Nm
Horizontal Ø 250 mm admissible max. weight 250 Kg +/- 10"			600/2700 rpm / 51,5 kW / 820 Nm
Horizontal Ø 340/ 400 mm admissible max. weight 350 Kg +/- 6"			850/1500 rpm / 31,2 kW / 350 Nm
Horizontal Ø 340/ 400 mm admissible max. weight 350 Kg +/- 6"			600/2700 rpm / 51,5 kW / 820 Nm
Horizontal Ø 400/450/ 500 mm admissible max. weight 350 Kg +/- 6"			530/1800 rpm / 78 kW / 1400 Nm

STANDARD EQUIPMENT

Measuring by glass scales in X/Y/Z
Chip conveyor and coolant tank
Full protection guarding
Movable control panel
Automatic central lubrication system
Lighting equipment
Cooled electrical cabinet
Air blowing for cone cleaning
Headstock hydraulic counterbalance
Vertical protection on the X axis

MAIN OPTIONS

Coolant through main spindle
Dividing wall and NSM software

*X axis travel 6000-12000 mm (with rack)

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