

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
Maximum 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			Standard: SK-40 / Option: BT-40 / Option: HSK A-63
Tool clamping force	N		Standard: ISO-40 (10000) / Option: BT-40 (10000) / Option: 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 / Option: 18000 - 24000
Power at 100% (S6 40%)	kW		Standard: 28 kW (36 kW) / Option: 25 kW (35 kW), 19 kW (26,7 kW)
Maximum torque at 100% (S6 40%)	Nm		Standard: 121 Nm (156 Nm) / Option: 87 Nm (130 Nm) / 60 Nm (86 Nm)
CONTROLS			
Available digital controls			Fanuc - Heidenhain - 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
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 1000
Z axis travel (vertical)	mm		1100
NC head tilting range	°		+/- 105°
Maximum swing diameter	mm	3	1200 1400
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		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			Standard: SK-50 / Option: BT-50 / Option: HSK A-100
Tool clamping force	N		Standard: ISO-50 (25000) / Option: BT-50 (25000) / Option: 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		9000 / Option: 12000-6.000
Power at 100% (S6 40%)	kW		Standard: 35 kW (48 kW) / Option: 35 kW (48 kW), 35 kW (48 kW)
Maximum torque at 100% (S6 40%)	Nm		Standard: 239 Nm (327 Nm) / Option: 239 Nm (327 Nm) / 334 Nm (458 Nm)
CONTROLS			
Available digital controls			Fanuc - Heidenhain - Siemens
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 22000-38500
Machine length	mm	4	5850-11650
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			
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