

High precision lathe and grinding machine 202TG-CNC FANUC 0i-TF PLUS W25

SCHAUBLIN
Machines SA 

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Technical data 0202-001

Machining capacity

Max. swing	80 [mm]
Center height over carriage	60 (40) [mm]
Distance between spindle nose and headstock cover	52 [mm]
Distance between spindle nose face and turret/slide face	280 [mm]
Distance between spindle nose face and turret/slide face	150 [mm]

Spindle W25

Spindle for SCHAUBLIN collets	W25
Spindle speed	7'000 [min ⁻¹]
Power, continuous / intermittent [kW] 5 / 6	5 / 6 [kW]
Continuous torque spindle / intermittently	26.1 / 35.1 [Nm]
Max. bar capacity with W25 collet	Ø19 [mm]

Pneumatic clamping system

Adjustable axial clamping force, at 5 bar	538 [daN]
Max. spindle speed	7'000 [min ⁻¹]

C axis

Programmable increment	0.0001 [°]
Interpolation	X1-Z1-C / X2-Z2-C

Cross slide

Transverse stroke, X axis	150 [mm]
Programmable increment, X axis (on diameter)	0.0001 [mm]
AC motor drive, power	0.75 [kW]
Torque, continuous/intermittent	2 / 7.8 [Nm]
Ball screw, dia. x pitch	Ø20 x 5 [mm]
Longitudinal stroke, Z axis	300 [mm]
Programmable increment, Z axis	0.0001 [mm]
AC motor drive, power	1 [kW]
Torque, continuous/intermittent	4 / 8.8 [Nm]
Ball screw, dia. x pitch	Ø32 x 10 [mm]

Tooling: Linear

Cutting feedrate, X and Z axis	10 [m/min]
Rapid feed, X and Z axis	20 [m/min]

Tooling: Linear

Possible number of radial tool holders (according to Ø of the piece)	2
Possible number of front tool holders (according to Ø of the piece)	4
Max. cross section of tool shank (Multifix system)	16 x 16 [mm]
Max. cross section of tool shank (Tripan system)	12 x 12 [mm]
Tool clamping for collets	ESX 20
Bar holder dia.	Ø20 [mm]

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Tooling: Turret with rotary tools

	Option
Number of tool stations	12
Number of stations for rotary tools	6
Standardized mounting of tool holders	VDI 16 (DIN 69880)
Drive of the rotary tools according to the standards	DIN 5480 W10 - 0,8
Max. cross section of tool shank	12 x 12 [mm]
Spindle speed	6'000 [min ⁻¹]
Power, continuous/intermittent	1 / 1 [kW]
Torque, continuous / intermittent	3 / 7 [Nm]
Integrated cooling and indexing in both directions of rotation	✓

Motor-driven tailstock

	Option
Internal taper of the sleeve	Morse 2
Max. longitudinal stroke, E axis	660 [mm]
Programmable increment, E axis	0.0001 [mm]
AC motor drive, power	0.75 [kW]
Torque, continuous/intermittent	2 / 7.8 [Nm]
Ball screw, dia. x pitch	Ø20 x 10 [mm]

Counter-spindle

	Option
Spindle for SCHAUBLIN collets	F16
Spindle speed	5'000 [min ⁻¹]
Power, continuous / intermittent [kW] 5 / 6	0.55 / 1.1 [kW]
Continuous torque spindle / intermittently	1.75 / 3.5 [Nm]
Max. diameter with collet F16	Ø13 [mm]
Axial clamping force	500 [daN]
Clamping type	
C-axis programmable increment	0.0001 [°]
C-axis interpolation	X1-Z1-C / X2-Z2-C push only

Coolant supply

	135 [l]
Tank capacity	40 [l/min]
Pump capacity	3,6 [bar]
Pressure of pump	

Pneumatic consumption

	5 - 6 [bar]
Min./max. pneumatic pressure	1/4" [G]
Type of connection	
Quality of the air	Clean and dry

Electrical power supply

	400 [V]
Voltage	+/- 5 [%]
Tolerated fluctuations	50 [Hz]
Frequency	+/- 5 [%]
Tolerated fluctuations	32 [A]
Rated current	50 [A]
Protection at mains end	22 [kVA]
Power consumption of the machine	

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Obstruction and weight

Overall dimensions: length x depth x height	1'930 x 1'300 x 2'040 [mm]
Approx. net weight of the machine (including oil)	3'000 [kg]
Floor load	3'036 [kg/m ²]
Load per square meter for one machine (in the workshop with many machines)	438 [kg/m ²]
Dimensions of the pallet	2'150 x 1'500 [mm]
Weight of the pallet	150 [kg]
Center height over floor	1'100 [mm]

Lubrication of slideways and ball screws

Kind of lubrication	Automatic
Kind of oil	Motorex Super-Gliss 68 K

Various

Workpiece collector	Opzione
Color of the machine: SCHAUUBLIN standard color 2 colors, color 1 Grey	RAL 7015
Color of the machine: SCHAUUBLIN standard color 2 colors, color 2 White	RAL 9010
Machine and equipment in accordance with the CE safety standards	✓

Grinding spindle 25'000rpm

Option

Speed	2'000 - 25'000 [min ⁻¹]
Max Grinding wheel diameter	150 [mm]
Max Inertia (Grinding wheel+holder)	1'500 [kg/mm ²]
Power consumption of the machine	7 / 9 [kW]
Torque, continuous/intermittent	2.7 / 3.5 [Nm]

Grinding spindle 60'000rpm

Option

Speed	5'000 - 60'000 [min ⁻¹]
Max Grinding wheel diameter	25 [mm]
Max Inertia (Grinding wheel+holder)	500 [kg/mm ²]
Power consumption of the machine	6 / 8 [kW]
Torque, continuous/intermittent	1 / 1.3 [Nm]

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Control unit		
Type of control unit	Fanuc 0i-TF PLUS	
Color screen	10.4" LCD	
Manual Guide i	Opzione	
Memory	2 Mb	
Number of programs	1000	
Tool offsets	128 etx. 200	
Programmable increment	0.0001	
Axis feedrate override	0 - 120	[%]
Spindle override	50 - 120	[%]
M codes in one block	3	
Background editing	✓	
Constant surface speed control	✓	
Spindle positioning	✓	
Rigid tapping (with Spindle)	✓	
Multiple threading	✓	
Taper thread cutting	✓	
Continuous threading	✓	
Variable lead threading	✓	
Custom Macro B	✓	
Polar coordinate interpolation	✓	
Cylindrical interpolation	✓	
Helical Interpolation option	Opzione	
Polygon turning	✓	
Inch/Metric	✓	
Fanuc Picture (Personnal customer page)	✓	
Languages control unit		
French, German, English, Italian, Spanish, Portuguese, Dutch, Swedish, Danish, Russian, Polish, Czech, Hungarian, Turkish, Japanese, Korean, Chinese (simplified characters), Chinese (traditional characters)	✓	
Interface control unit		
Interface RS232-C	✓	
Interface PCMCIA	✓	
Interface Ethernet (embedded)	✓	
RS-232	Opzione	
Profibus	Opzione	
Port fast Ethernet (optional board)	Opzione	
Data server (optional board)	Opzione	