

HIGH PRECISION AND PRODUCTION LATHE

302 FANUC 0i-TF PLUS

Technical data 0302-001

Machining capacity

Max. swing	200 [mm]
Center height over carriage	40 [mm]
Distance between spindle nose and headstock cover	41 [mm]
Distance between spindle nose face and turret/slide face	258 / 270 [mm]
Maximum turning length with collet	200 [mm]
Distance between centers	220 [mm]

Spindle W25

Spindle for SCHAUBLIN collets	W25
Spindle speed, infinitely variable	50 - 8'000 [min ⁻¹]
Power, continuous / intermittent	7.5 / 9 [kW]
Continuous torque spindle / intermittently	11.9 / 14.3 [Nm]
Max. bar capacity with W25 collet	Ø19 [mm]

Pneumatic clamping system

option

Adjustable axial clamping force, at 5 bar	500 [daN]
Max. spindle speed	6'000 [min ⁻¹]

Spindle interlock

Pneumatic spindle interlock, interlocking moment at 5 bars	48 [Nm]
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C axis

Programmable increment	0.0001 [°]
Interpolation	X-Z
Max. use	20%

Cross slide

Transverse stroke, X axis	140 [mm]
Programmable increment, X axis (on diameter)	0.0001 [mm]
AC motor drive, power	0.5 [kW]
Torque, continuous/intermittent	2 / 7 [Nm]
Ball screw, dia. x pitch	Ø20 x 4 [mm]
Longitudinal stroke, Z axis	240 [mm]
Programmable increment, Z axis	0.0001 [mm]
AC motor drive, power	0.5 [kW]
Torque, continuous/intermittent	2 / 7 [Nm]
Ball screw, dia. x pitch	Ø20 x 4 [mm]

Tooling: Linear

Cutting feedrate, X axis	5 [m/min]
Cutting feedrate, Z axis	5 [m/min]
Rapid feed, X- axis	12 [m/min]
Rapid feed, Z- axis	12 [m/min]

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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)	5
Max. cross section of tool shank (Multifix system)	16 x 16 [mm]
Tool clamping for collets	ESX 20
Bar holder dia.	Ø20 [mm]

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
Max. cross section of tool shank	12 x 12 [mm]
Spindle speed, infinitely variable	30 - 6'000 [min ⁻¹]
Power, continuous/intermittent	1 / 1.3 [kW]
Torque, continuous / intermittent	3 / 7.5 [Nm]
Integrated cooling and indexing in both directions of rotation	✓

Coolant supply

option

Tank capacity	117 [l]
Pump capacity	40 [l/min]
Pressure of pump	2.5 [bar]

Pneumatic consumption

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

Electrical power supply

Voltage	400 [V]
Tolerated fluctuations	+/- 5 [%]
Frequency	50 [Hz]
Tolerated fluctuations	+/- 5 [%]
Rated current	12 [A]
Protection at mains end	25 [A]
Power consumption of the machine	8.4 [kVA]

Obstruction and weight

Overall dimensions: length x depth x height	1'795 x 969 x 1'485 [mm]
Approx. net weight of the machine (including oil)	1'100 [kg]
Floor load	1'300 [kg/m ²]
Load per square meter for one machine (in the workshop with many machines)	183 [kg/m ²]
Dimensions of the pallet	2'210 x 1'500 [mm]
Weight of the pallet	105 [kg]
Center height over floor	1'126 [mm]

Lubrication of linear guideways and ball screws

Kind of X, Z linear guide-way lubrication	Automatic
Kind of X, Z ball screws lubrication	Automatic

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Various

Workpiece collector	option
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

Control unit

Type of control unit	Fanuc Oi-TF Plus
Screen	10.4"
Manual Guide i	option
Memory	2 Mb
Number of programs	1000
Tool offsets	128 extensible à 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
Polygon turning	✓
Inch/Metric	✓
Fanuc Picture (Personnal customer page)	✓

Languages control unit

English, Japanese, German, French, Spanish, Italian, Chinese (Traditional Chinese), Chinese (Simplified Characters), Korean, Portuguese, Dutch, Danish, Swedish, Hungarian, Czech, Polish, Russian, Turkish, Rumanian, Bulgarian, Slovak, Finnish, Hindi, Tamil, Vietnamese, Indonesian, Slovenian
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Interface control unit

Interface RS232-C	option
Interface PCMCIA	✓
Interface Ethernet	option
Interface USB	✓
Data Server	option