

# HIGH PRECISION AND PRODUCTION LATHE 302 FANUC 0i-TF

## 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]
Distance between spindle nose face and turret/slide face	200 [mm]
Distance between centers	220 [mm]

### Spindle W20

Spindle for SCHAUBLIN collets	W20
Spindle speed, infinitely variable	50 - 8'000 [min <sup>-1</sup> ]
Power, continuous / intermittent	7.5 / 9 [kW]
Continuous torque spindle / intermittently	11.9 / 14.3 [Nm]
Max. bar capacity with W20 collet	Ø14.5 [mm]

### Spindle W25

Spindle for SCHAUBLIN collets	W25
Spindle speed, infinitely variable	50 - 8'000 [min <sup>-1</sup> ]
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

Adjustable axial clamping force, at 5 bar	500 [daN]
Max. spindle speed	6'000 [min <sup>-1</sup> ]

**option**

### 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	8 [m/min]
Cutting feedrate, Z axis	8 [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 $\varnothing$ of the piece)	2
Possible number of front tool holders (according to $\varnothing$ 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.	$\varnothing$ 20 [mm]

### Tooling: Turret with rotary tools

	<b>option</b>
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 <sup>-1</sup> ]
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

	<b>option</b>
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 <sup>2</sup> ]
Load per square meter for one machine (in the workshop with many machines)	183 [kg/m <sup>2</sup> ]
Dimensions of the pallet	2'210 x 1'500 [mm]
Weight of the pallet	105 [kg]
Center height over floor	1'126 [mm]

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#### Lubrication of linear guideways and ball screws

Kind of X linear guideway lubrication	Automatic
Kind of Z linear guideway lubrication	Automatic
Kind of grease or oil	Motorex Super-Gliss 68 K
Kind of X ball screws lubrication	Automatic
Kind of Z ball screws lubrication	Automatic
Kind of grease or oil	Motorex Super-Gliss 68 K

#### Various

Workpiece collector	option
Color of the machine: SCHAUUBLIN standard color 4 colors, color 1 Grey	RAL 7015
Color of the machine: SCHAUUBLIN standard color 4 colors, color 2 Grey	RAL 7021
Color of the machine: SCHAUUBLIN standard color 4 colors, color 3 White	RAL 9010
Color of the machine: SCHAUUBLIN standard color 4 colors, color 4 Red	RAL 3003

#### Control unit

Type of control unit	Fanuc Oi-TF
Screen	10.4"
Manual Guide i	option
Memory	512 Kbyte ext. 2 Mb
Number of programs	400
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

French	✓
German	✓
English	✓
Italian	✓
Spanish	✓
Portuguese	✓
Dutch	✓

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Swedish	✓
Danish	✓
Russian	✓
Polish	✓
Czech	✓
Hungarian	✓
Turkish	✓
Japanese	✓
Korean	✓
Chinese (simplified characters)	✓
Chinese (traditional characters)	✓

### Interface control unit

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