

Rue Nomlieutant 1 2735 Bévilard Switzerland T +41 32 491 67 00 info@schaublinmachines.com www.schaublinmachines.com

Spindle (ISO 702/I / DIN 55026)	632	642
Spindle axial and radial runout	< 0.5	< 0.7
Recommanded maximum turning diameter	270	270
Distance between spindle nose and headstock cover	50	80
Maximum distance between spindle nose face and turret	380	350
ISO spindle nose	A2-4	A2-5
Spindle speed	0 - 6'000	0 - 5'000
Power, continuous / intermittent	7.5 / 15	7.5 / 15
Continuous torque spindle / intermittenly	41 / 109	55 / 145
Spindel throughbore (without drawbar)	39	51
Max. bar capacity	32	42
Recommended max. swin	140	250
Adjustable axial pneumatic clamping force	60 - 1000	180 - 2700
Pneumatic spindle interlock, interlocking moment at 5 bar	69	83
C axis		
Programmable increment		0.0001
Interpolation		X - Y - Z - C
Rapid feed		36'000
Positioning accuracy		± 0.012° / ± 43"
Positioning repeatability		± 0.006° / ± 22"
Cross slide		
Transverse stroke (on diameter), X axis		320
Longitudinal stroke, Y axis		+/- 27
Longitudinal stroke, Z axis		350
Programmable increment, Z axis		0.0001
X and Z axes, AC motor drive, power		2.3
X and Z axes, torque, continuous/intermittent		8 / 32
X and Z axes, ball screw, Ø x pitch		28 x 5
Positioning accuracy [P] X and Y axes	VDI /DGQ 3441	5
Positioning accuracy [P] Z axis	VDI /DGQ 3441	6
Positioning repeatability [PS] X and Y axes	VDI /DGQ 3441	2
Positioning repeatability [PS] Z axis	VDI /DGQ 3441	3
Feed		
Cutting feedrate, X, Z and E axes		5
Rapid feed, X, Z and E axes		20
Feed force, X, Z and E axes, continuous		900

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Technical data

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Tool holder		Radial
Number of tool stations		12
Number of stations for rotary tools		12
Standardized mounting of tool holders		VDI30 + TRIFIX
Drive of the rotary tools according to the standards		DIN 5480
Max. cross section of tool shank		20 x 20
Spindle speed		0 - 12'000
Power, continuous/intermittent		4.6 / 8.8
Torque, continuous / intermittent		11 / 21
Positioning accuracy		5
Positioning repeatability		2
Cross-slide Tailstock / Counter-spindle		
Longitudinal stroke, E axis		350
Transverse stroke, Xt axis		190
Programmable increment		0.0001
AC motor drive, power		1.2
Torque, continuous/intermittent		7 / 15
Ball screw, Ø x pitch		28 x 5
Positioning accuracy [P]	VDI /DGQ 3441	5
Positioning repeatability [PS]	VDI /DGQ 3441	3
Counter-spindle A2-4 (ISO 702/I / DIN 55026)		
Spindle axial and radial runout		0.5
Spindle speed		0 - 5'000
AC motor drive, power		1 / 3.5
Torque, continuous/intermittent		13 / 45
Spindel throughbore (without drawbar)		39
Possibility to built on a 3 jaws chuck		✓
Recommanded maximum turning diameter		140
Adjustable axial pneumatic clamping force		45 - 750
Pneumatic spindle interlock, interlocking moment at 5 bar		56
Max. distance between spindle noses A2-4 / A2-5		520 / 490
C axis		
Programmable increment		0.0001
Interpolation		X - Y - Z - C
Rapid feed		36'000
Positioning accuracy		± 0.012° / ± 43''
Positioning repeatability		± 0.006° / ± 22''
Motor-driven tailstock		
Internal taper of the sleeve		Morse 3



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Version of machine with 2 paths		
Tooling: Linear for secondary operations		
Possible number tool holders	4	
Max. cross section of tool shank	12 x 12	[mm]
Tool clamping for collets	ESX 9	
Turret with rotary tools for secondary operations		
Number of tool stations	12	
Number of stations for rotary tools	6	
Standardized mounting of tool holders (DIN 6988	30) VDI 16	
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	0 - 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	✓	
Recommanded maximum turning diameter with chuck	Ø65	[mm]



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Tank capacity	80	[1]
Coolant flow	83I/min @ 2.4bar]
Pneumatic connection		
Min./max. pneumatic pressure	5 - 14	[bar]
Type of connection	G1/4"	[G]
Quality of the air	Clean and dry	
Electrical connection		
Voltage	400	[V]
Tolerated fluctuations	+/- 5	[%]
Other Voltage	Option	1
Frequency	50	[Hz]
Tolerated fluctuations	+/- 5	[%]
Rated current	28	[A]
Protection at mains end	40	[A]
Power consumption of the machine	19	[kVA]
Obstruction and weight	·	
Overall dimensions: length x depth x height	1'720 x 1'680 x 1'990	[mm]
Approx. net weight of the machine (including oil)	2'800	[kg]
Floor load	10	[kg/cm
Load per square meter for one machine	1000	[kg/m2
Dimensions of the pallet	2'350 x 2'220	[mm]
Weight of the pallet	200	[kg]
Spindle center height over floor	1100	[mm]
Lubrication of linear guideways and ball screws		
Kind of linear guideway and ball screws lubrication for axes X, Y, Z, Xt and E	Automatic]
Kind of oil	ISO VG 68	
Various		
Color of the machine: SCHAUBLIN standard color 2 colors, color 1 Grey	RAL 7015	
Color of the machine: SCHAUBLIN standard color 2 colors, color 2 White	RAL 9010	
Noise level under load at the operator's station	76	$[dB_A]$
Machine and equipment in accordance with the CE safety standards	✓]
Operating temperature	+15 ⇒ +30	[°]
Relative humidity	10 ⇒ 75	[%]



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Type of control unit	Fanuc 0i-TF PLUS	\dashv
Cloor screen	10.4" LCD	1
Manual Guide i	Option	1
Memory	2 Mb	\dashv
Number of programs	1000	-
Tool offsets	128 etx. 200	-
Programmable increment	0.0001	-
Axis feedrate override	0 - 120	1
Spindle override	50 - 120	-
M codes in one block	3	+
Background editing	√	-
Constant surface speed control	√	7
Spindle positioning	√	7
Rigid tapping (with Spindle)	✓	7
Multiple threading	√	┪
Taper thread cutting	✓	7
Continuous threading	✓	
Variable lead threading	✓	٦
Custom Macro B	✓	٦
Polar coordinate interpolation	✓	٦
Cylindrical interpolation	✓	
Helical Interpolation option	Option	
Polygon turning	✓	٦
Inch/Metric	✓	٦
Fanuc Picture (Personnal customer page)	✓	٦
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	✓	\exists
Interface PCMCIA	✓	٦
Interface Ethernet (embedded)	✓	٦
RS-232	Option	
Profibus	Option	
Port fast Ethernet (optional board)	Option	
Data server (optional board)	Option	\exists