Technical data

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

	A2-4	D1-3"
Spindle	RT / RTM	LT / RT
Spindle axial and radial runout	< 0.5	< 0.5
Recommanded maximum turning diameter	270	270
Max. permissible swing over carriage	115	115
Max. permissible swing over bed	270	270
Center height over carriage	60	60
Center height over bed	125	125
Distance between spindle nose and headstock cover	32	44
distance between spindle nose face and turret/slide face	390	445
Spindle for SCHAUBLIN collets	-	B32
Spindle speed	0 - 5'000	0 - 5'000
Power, continuous / intermittent	7.5 / 11	7.5 / 11
Continuous torque spindle / intermittenly	43 / 84	43 / 84
Spindel throughbore (without drawbar)	39	28
Max. bar capacity with B32 collet	24	24
Max. bar capacity of the "HAINBUCH Gr 32" clamping head	32	-
Max. bar capacity of the automatic chuck	32	19
Recommended max. swing	200	150
Adjustable axial pneumatic clamping force	1'150	1'150
Pneumatic spindle interlock, interlocking moment at 5 bar	69	69
C axis (Spindle) Programmable increment Interpolation		0.0001 X - Z - C
Rapid feed		36'000
Positioning accuracy		± 0.012° / ± 43''
Positioning repeatability		$\pm 0.006^{\circ} / \pm 22''$
Cross slide		1 0.000 7 1 22
Transverse stroke (on diameter), X axis	(LT / RT / RTM)	200 / 190 / 185
	(LT / RT / RTM)	415 / 395 / 390
Longitudinal stroke, Z axis	(LT / RT / RTM)	415 / 395 / 390 0.0001
Longitudinal stroke, Z axis Programmable increment, Z axis and X axis (diameter)	(LT / RT / RTM)	
Longitudinal stroke, Z axis Programmable increment, Z axis and X axis (diameter) X and Z axes, AC motor drive, power	(LT / RT / RTM)	0.0001
Longitudinal stroke, Z axis Programmable increment, Z axis and X axis (diameter) X and Z axes, AC motor drive, power X and Z axes, torque, continuous/intermittent	(LT / RT / RTM)	0.0001
Longitudinal stroke, Z axis Programmable increment, Z axis and X axis (diameter) X and Z axes, AC motor drive, power X and Z axes, torque, continuous/intermittent X axis, ball screw, Ø x pitch	(LT / RT / RTM)	0.0001 1.4 4 / 14
Longitudinal stroke, Z axis Programmable increment, Z axis and X axis (diameter) X and Z axes, AC motor drive, power X and Z axes, torque, continuous/intermittent X axis, ball screw, Ø x pitch Z axis, ball screw, Ø x pitch	(LT / RT / RTM)	0.0001 1.4 4 / 14 20 x 5
Longitudinal stroke, Z axis Programmable increment, Z axis and X axis (diameter) X and Z axes, AC motor drive, power X and Z axes, torque, continuous/intermittent X axis, ball screw, Ø x pitch Z axis, ball screw, Ø x pitch Positioning accuracy [P] X and Z axes		0.0001 1.4 4 / 14 20 x 5 32 x 5
Longitudinal stroke, Z axis Programmable increment, Z axis and X axis (diameter) X and Z axes, AC motor drive, power X and Z axes, torque, continuous/intermittent X axis, ball screw, Ø x pitch Z axis, ball screw, Ø x pitch Positioning accuracy [P] X and Z axes Positioning repeatability [PS] X and Z axes	VDI /DGQ 3441	0.0001 1.4 4 / 14 20 × 5 32 × 5 5
Longitudinal stroke, Z axis Programmable increment, Z axis and X axis (diameter) X and Z axes, AC motor drive, power X and Z axes, torque, continuous/intermittent X axis, ball screw, Ø x pitch Z axis, ball screw, Ø x pitch Positioning accuracy [P] X and Z axes Positioning repeatability [PS] X and Z axes Feed	VDI /DGQ 3441	0.0001 1.4 4 / 14 20 x 5 32 x 5 5 2
Longitudinal stroke, Z axis Programmable increment, Z axis and X axis (diameter) X and Z axes, AC motor drive, power X and Z axes, torque, continuous/intermittent X axis, ball screw, Ø x pitch Z axis, ball screw, Ø x pitch Positioning accuracy [P] X and Z axes Positioning repeatability [PS] X and Z axes	VDI /DGQ 3441	0.0001 1.4 4 / 14 20 × 5 32 × 5 5

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Tooling: Linear		
Possible number of radial tool holders (according to \emptyset of the piece)	2	
Possible number of front tool holders (according to Ø of the piece)	2 ⇔ 5	
Max. cross section of tool shank (Multifix system)	16 x 16	[mm]
Max. cross section of tool shank (Tripan system)	16 x 16	[mm]
Tool clamping for collets	ESX20	
Bar holder	Ø20	[mm]
Tooling: Turret with stationary tools		
Tool holder	Axial	
Number of tool stations	8	
Standardized mounting of tool holders DIN 6988	0 VDI20	
Max. cross section of tool shank	16 x 16	[mm]
Tooling: Turret with rotary tools		
Tool holder	Axial	
Number of tool stations	8	
Number of stations for rotary tools	4	
Standardized mounting of tool holders DIN 6988	0 VDI20	
Drive of the rotary tools according to the standards	DIN 1809	
Max. cross section of tool shank	16 x 16	[mm]
Spindle speed	0 - 5'000	[min-
Power, continuous/intermittent	0.55 / 1.1	[kW]
Torque, continuous / intermittent	1.8 / 3.5	[Nm]
Pneumatic tailstock		
Internal taper of the sleeve	Mo 3	
Spindle OD	45	[mm]
Spindle stroke	70	[mm]
Adjustable pressing force	25 - 260	[daN]

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Base coolant supply		
Tank capacity		55
Coolant flow		32l/min @ 2 bar
Pneumatic connection		
Min./max. pneumatic pressure		5 - 6
Type of connection		G 3/8"
Quality of the air		Clean and dry
Average consumption		3
Electrical connection		
Voltage		400
Tolerated fluctuations		+/- 5
Frequency		50
Tolerated fluctuations		+/- 5
Rated current		19
Protection at mains end		32
Power consumption of the machine		13
Obstruction and weight		
Overall dimensions: length x depth x height		1'830 x 1'260 x 1'700
Approx. net weight of the machine (including oil)	(LT / RT / RTM)	1'250 / 1'400 / 1'570
Floor load	(LT / RT / RTM)	1'708 / 1'912 / 2'145
Load per square meter for one machine	(LT / RT / RTM)	386 / 433 / 485
Dimensions of the pallet		2'270 x 1'450
Weight of the pallet		130
Spindle center height over floor		1'162
Lubrication of linear guideways and ball screws		
Kind of X and Z slideways lubrication		Automatic
Kind of lubricant		Oil ISO VG 68
Kind of X ball screws lubrication		Lifetime lubrication
Kind of Z ball screws lubrication		Manual
Kind of lubricant		Grease
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		75
Machine and equipment in accordance with the CE safety standards		\checkmark
Operating temperature		+15 ⇔ +30
Relative humidity		10 ⇔ 75

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Control unit		_
Type of control unit	Fanuc 0i-TF PLUS	_
Cloor screen	10.4" LCD	_
Manual Guide i	✓	_
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	Option	
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	Option	1
Profibus	Option	
Port fast Ethernet (optional board)	Option	
Data server (optional board)	Option	\neg