

High precision lathe cast-iron 102Mi-CF W20/W25

SCHAUBLIN 
MACHINES SA

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Technical data 0102-009 / 0102-010

Capacities

Max. permissible swing over bed	200 [mm]
Max. permissible swing over carriage	120 [mm]
Center height over bed	102 [mm]
Center height over carriage	20 [mm]
Maximum distance between centres	470 [mm]
Length of the bed	1'000 [mm]
Height of the bed	168 [mm]

Main spindle; AC motor drive

Speed variation by frequency converter with integral braking

Power continuous (machine on cast iron base)	2 [kW]
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CONTROLS

Control panel comprising :

- Speed pre-selection
- Digital spindle speed indication
- Digital speed display of optional features
- Display of the spindle position when spindle positioning
- Input of spindle positioning
- Ref of workpiece or absolute spindle position
- Pedal for progressive adjusting of spindle speed
- Auxiliary functions

Headstock W20

Spindle for SCHAUBLIN collets	W20
Spindle speed, infinitely variable	100 - 6'000 [min ⁻¹]
Spindle ID (without chuck key)	20 [mm]
Max. bar capacity with W20 collet	14.5 [mm]

Headstock W25

Spindle for SCHAUBLIN collets	W25
Spindle speed, infinitely variable	100 - 6'000 [min ⁻¹]
Spindle ID (without chuck key)	25 [mm]
Max. bar capacity with W25 collet	19 [mm]

Lever-type quick-clamping system

option

Max. spindle speed	3'000 [min ⁻¹]
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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 bar	48 [Nm]
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Positioning spindle stop

Programmable increment	0.01
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Cross slide

Manual travel of the slide on the bed	442 [mm]
Transverse stroke, X axis	100 [mm]
Resolution, X axis (radius)	0.001 (digital)
Trapezoidal thread screw, dia. x pitch	9 x 2 [mm]
Longitudinal stroke, Z axis	90 [mm]
Resolution, Z axis	0.001 (digital)
Trapezoidal thread screw, dia. x pitch	9 x 2 [mm]

Tooling : Linear

Max. cross section of tool shank (Multifix system)	10 x 10 [mm]
Max. cross section of tool shank (Tripan system)	10 x 10 [mm]
Bar holder (MULTIFIX system)	Ø20 [mm]
Bar holder (TRIPAN system)	Ø12 [mm]

Screw-type tailstock

Internal taper of the sleeve	Mo 2
Spindle OD	30 [mm]
Spindle stroke	80 [mm]

Lever-operated tailstock

	option
Internal taper of the sleeve	W20 / W25
Spindle OD	40 [mm]
Spindle stroke	100 [mm]

Star-wheel handle-type tailstock

	option
Internal taper of the sleeve	W20 / W25
Spindle OD	40 [mm]
Spindle stroke	150 [mm]

Steady rests

	option
Capacity, stationary rest	Ø70 [mm]

Coolant supply

	option
Tank capacity	23 [l]
Pump performance	0,19 [kW]

Electrical power supply

Voltage	400 [V]
Tolerated fluctuations	+/- 5 [%]
Frequency	50 / 60 [Hz]
Tolerated fluctuations	+/- 5 [%]
Rated current	12 [A]
Protection at mains end	20 [A]
Power consumption of the machine	6 [kVA]

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Obstruction and weight

Overall dimensions: length x depth x height	1'410 x 650 x 1'400 [mm]
Approx. net weight of the machine	570 [kg]
Floor load	1'541 [kg/m ²]
Load floor	218 [kg/m ²]
Dimensions of the pallet	2'100 x 1'200 [mm]
Weight of pallet	55 [kg]

Lubrication of slideways and ball screws

Type of lubrication	Manual
Oil lubrication of slideways	Mobil Vactra 2
Grease lubrication of ball screw	Mobil Velocite 6

Various

Color of the machine: SCHAUBLIN standard	RAL 7035
Color of the cast iron base: SCHAUBLIN standard	RAL 5013
Noise level under load at the operator's station	< 60 [dB _A]
Machine and equipment in accordance with the CE safety standards	✓
Operating temperature	+15 ⇄ +30 [°C]
Relative humidity	5 ⇄ 80 [%]