

High precision lathe bench 102N-CF W20/W25

SCHAUBLIN 
MACHINES SA

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Technical data 0102-001 / 0102-003

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 | 1000 [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) | 1,5 [kW] |
|--|----------|

CONTROLS

Control panel comprising:

- Speed pre-selection
- Digital spindle speed indication
- Configuration of the pedal functions with menu
- Auxiliary functions

Headstock W20

| | |
|------------------------------------|----------------------------------|
| Spindle for SCHAUBLIN collets | W20 |
| Spindle speed, infinitely variable | 100 - 5'000 [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 - 5'000 [min ⁻¹] |
| Spindle ID (without chuck key) | 25 [mm] |
| Max. bar capacity with W25 collet | 19 [mm] |

Lever-type quick-clamping system

| | |
|--------------------|---|
| Max. spindle speed | option 3'000 [min ⁻¹] |
|--------------------|---|

Cross slide

| | |
|--|----------------|
| Manual travel of the slide on the bed | 442 [mm] |
| Transverse stroke, X axis | 100 [mm] |
| Resolution, X axis (radius) | 0.01 (vernier) |
| Trapezoidal thread screw, dia. x pitch | 9 x 2 [mm] |
| Longitudinal stroke, Z axis | 90 [mm] |
| Resolution, Z axis | 0.01 (vernier) |
| 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] |

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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] |
|---------------------------|----------|

Electrical power supply

| | |
|----------------------------------|--------------|
| Voltage | 400 [V] |
| Tolerated fluctuations | +/- 5 [%] |
| Frequency | 50 / 60 [Hz] |
| Tolerated fluctuations | +/- 5 [%] |
| Rated current | 5 [A] |
| Protection at mains end | 20 [A] |
| Power consumption of the machine | 1,8 [kVA] |

Obstruction and weight

| | |
|---|--------------------------|
| Overall dimensions: length x depth x height | 2'000 x 800 x 1'550 [mm] |
| Approx. net weight of the machine | 350 [kg] |
| Floor load | 256 [kg/m ²] |
| Load floor | 109 [kg/m ²] |
| Dimensions of the pallet | 2'100 x 900 [mm] |
| Weight of pallet | 60 [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 Blue | NCS 1020-R80B |
| Color of cabinet, support and pedal: SCHAUBLIN standard Blue cobalt | 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 [%] |