High precision lathe

180-CCN R-TM A2-5 / A2-6



Rue Nomlieutant 1 2735 Bévilard Switzerland T +41 32 491 67 00 F +41 32 491 67 08 info@smsa.ch www.smsa.ch

| Machining capacity | A2-5 / A2-6 | |
|---|--------------------|----------------------|
| Max. swing | 270 | [mm] |
| Max. permissible swing over carriage | 160 | [mm] |
| Max. permissible swing over bed | 430 | [mm] |
| Center height over carriage | 83 | [mm] |
| Center height over bed | 280 | [mm] |
| Distance between spindle nose and headstock cover | 72 / 91 | [mm] |
| Max. turning length (depend on clamping head / collet) | 721 | [mm] |
| Principal spindle; by AC motor drive | | |
| Power, continuous / intermittent | 15 / 18,5 | [kW] |
| Spindle A2-5 (ISO 702/I / DIN 55026) | | |
| Spindle for SCHAUBLIN collets | F48 / B32 / B45 | |
| Spindle speed | 50 - 5'000 | [min-1] |
| Continuous torque spindle / intermittently | 133 / 164 | [Nm] |
| Spindle ID (without chuck key) | | [mm] |
| Max. bar capacity with B32 collet | 24 | [mm] |
| Max. bar capacity with B45 collet | 36 | [mm] |
| Max. throughbore with collet F48 | | [mm] |
| Max. bar capacity of the "HAINBUCH Gr 42" clamping head | | [mm] |
| Max. clamping diameter on clamping head "HAINBUCH Gr52" | 52 | [mm] |
| Max. bar capacity of the automatic chuck | 43,6 | [mm] |
| Recommended max. swing | 250 | [mm] |
| Spindle A2-6 (ISO 702/I / DIN 55026) | | |
| Spindle for SCHAUBLIN collets | F66 / B32 / B45 | |
| Spindle speed | 50 - 4'000 | [min ⁻¹] |
| Continuous torque spindle / intermittently | 133 / 164 | [mm] |
| Spindle ID (without chuck key) | 68 | [mm] |
| Max. bar capacity with B32 collet | 24 | [mm] |
| Max. bar capacity with B45 collet | 36 | [mm] |
| Max. bar capacity with F66 collet | 60 | [mm] |
| Max. clamping diameter on clamping head «HAINBUCH Gr65» | 65 | [mm] |
| Max. bar capacity of the automatic chuck | 61 | [mm] |
| Recommended max. swing | 300 | [mm] |
| Pneumatic clamping system | A2-5 / A2-6 | |
| Adjustable axial clamping force, at 5 bar | 2'700 / 3'400 | [daN] |
| Max. spindle speed | Without limitation | [min ⁻¹] |
| Spindle interlock | | |
| Electromagnetic spindle interlock, interlock force at 5 bar | 83 | [Nm] |
| C axis | | |
| Programmable increment | 0.001 | [°] |
| Interpolation | X - Z - C | . 1 |
| Rapid advance | 36'000 | [°/min] |
| · | 23 000 | [, . ,] |

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| Transverse stroke, X axis 231 [mm] Programmable increment, X axis (on diameter) 0.001 [mm] AC motor drive, power 1.4 [Mm] Torque, continuous/intermittent 4.114 [Nm] Ball screw, dia. x pitch 32 x5 [mm] Longitudinal stroke, Z axis 721 [mm] Programmable increment, Z axis 0,001 [mm] RC motor drive, power 1,6 [M] Torling: Turnet with rotary tools PUPLOMATICs [mm] Pumber of tool stations for rotary tools PUPLOMATICs [mm] Number of tool stations for rotary tools 0 [mm] Sp | Top cross slide | | |
|---|--|------------------------|----------------------|
| Programmable increment, X axis (on diameter) 0.001 [mm] AC motor drive, power 1.4 [kW] Torque, continuous/intermittent 4 / 14 [kW] Ball screw, dia. x pitch 32 x 5 [mm] Longitudinal stroke, Z axis 0.001 [mm] Programmable increment, Z axis 0.001 [mm] AC motor drive, power 1.6 [kW] Ball screw, dia. x pitch 8 2 / 20 [mm] Programmable increment, Z axis 0.001 [mm] AC motor drive, power 1.6 [kW] Torque, continuous/intermittent 8 / 20 [mm] Ball screw, dia. x pitch (2 x 5) 32 x 10 [mm] Tording: Linear [mm] Cutting feedrate, X and Z axis 9 / 5 [m/mi] Bapid feed, X and Z axis 9 / 5 [m/mi] Tooling: Turret with rotary tools ***DUPLOMATIC**** Number of tool stations 12 Number of tool stations for rotary tools ***DUPLOMATIC*** Number of tool stations for rotary tools 6 Standardized mounting of tool holders VDI 30 selon Dis 8980 Drive of the rotary tools according to the standards DIN 1800 Max. cross section of t | - | 231 | [mm] |
| AC motor drive, power 1,4 kWJ Torque, continuous/intermittent 4,7 k [Nm] Ball scrow, dia, x pitch 32 x 8 mm Longitudinal stroke, Z axis 721 mm Programmable increment, Z axis 0,001 mm AC motor drive, power 1,6 kWJ Torque, continuous/intermittent 8 / 29 Nm] Ball screw, dia, x pitch (2 x 5) 32 x 10 mm Tooling: Linear Tooling: Linear Cutting feedrate, X and Z axis 0 - 5 m/m Rapid feed, X and Z axis 8 / 15 m/m Repet feed, X and Z axis 8 / 15 m/m Feed force, X and Z axis, continuous **DUPLOMATIC** Number of tool stations **DUPLOMATIC** Number of tool stations **DUPLOMATIC** Number of tool stations for rotary tools **DUPLOMATIC** <td< td=""><td></td><td></td><td></td></td<> | | | |
| Torque, continuous/intermittent 4 / 14 Nm] Ball screw, dia, x pitch 32 x 5 mm] Programmable increment, Z axis 721 mm] Programmable increment, Z axis 0,001 mm] AC motor drive, power 1,6 kW] Torque, continuous/intermittent 8 / 29 Nm] Ball screw, dia, x pitch 2 x 5 32 x 10 mm] Tooling: Linear Cutting feedrate, X and Z axis 0 - 5 mm Rapid feed, X and Z axis 8 / 15 mm Feed force, X and Z axis 8 / 15 mm Feed force, X and Z axis, continuous 8 / 15 mm Tooling: Turret with rotary tools ***DUPLOMATIC** Number of tool stations 12 Number of tool stations for rotary tools ***DUPLOMATIC** Standardized mounting of tool holders ***VDI 30 selon DIN 6888 Drive of the rotary tools according to the standards 10 nm Max. cross section of tool shank 20 x 20 mm] Power, continuous/intermittent 1,1 / 3.7 kW] Torque, continuous/intermittent 7,225. km] Integrated cooling and indexing in both directions of rotation *** | | | |
| Longitudinal stroke, Z axis 721 mm/ Programmable increment, Z axis 0,001 mm/ AC motor drive, power 1,6 kW/ Torque, continuous/intermittent 8 / 29 Nm/ Ball screw, clia. x pitch (2 x 5) 32 x 10 mm/ Tooling: Linear Cutting teedrate, X and Z axis 0 - 5 m/m Eed force, X and Z axis 8 / 15 m/m Feed force, X and Z axes, continuous 500 [ath] Tooling: Turret with rotary tools ***CDUPLOMATIC** ***Number of tool stations 12 Number of tool stations 12 ****CTATES** ****CTATES** Number of tool stations 12 ****CTATES** ****CTATES** Number of tool stations 12 ****CTATES** ****CTATES** ****CTATES** ****CTATES** ****CTATES** *****CTATES** ****CTATES** * | | | |
| Programmable increment, Z axis 0,001 mml AC motor drive, power 1.6 [kW] Torque, continuous/intermittent 8.729 [km] Ball screw, dia. x pitch (2 x 5) 32 x 10 [mm] Tooling: Linear Tooling tedrate, X and Z axis 0.5 [m/mi Rapid feed, X and Z axis 8.715 [m/mi Feed force, X and Z axes, continuous 20 [ash] Tooling: Turret with rotary tools 6 6 Number of tool stations 12 1 Number of stations for rotary tools 6 6 Standardized mounting of tool holders VDI 30 selon DIN 6980 10H 1809 Max. cross section of tool shank 20 x 20 [mm] Spindle speed 30 -5000 [min*] Power, continuous/intermittent 1,1 / 3,7 [kW] Torque, continuous / intermittent 7/ 23.5 [km] Internal taper of the sleeve Mo 5 [mm] Pneumatic tailstock option [mm] Spindle OD 72 [mm] Spindle str | Ball screw, dia. x pitch | 32 x 5 | [mm] |
| AC motor drive, power 1.6 kW/l Torque, continuous/internittent 8 / 20 Nm Ball screw, dia. x pitch (2 x 5) 3 x 10 mm Tooling: Linear | Longitudinal stroke, Z axis | 721 | [mm] |
| Torque, continuous/internittent 8 / 20 mm Ball screw, dia. x pitch (2 x 5) 32 x 10 mm Tooling: Linear | Programmable increment, Z axis | 0,001 | [mm] |
| Page Seriew, dia. x pitch (2 x 5) 32 x 10 [mm] | AC motor drive, power | 1,6 | [kW] |
| Tooling: Linear Cutting feedrate, X and Z axis 0 - 5 | Torque, continuous/intermittent | 8 / 29 | [Nm] |
| Cutting feedrate, X and Z axis 0 - 5 Invini Rapid feed, X and Z axes, continuous 8 / 15 [m/mi Feed force, X and Z axes, continuous 500 [daN] Tooling: Turret with rotary tools **DUPLOMATIC** *** Number of tool stations 12 *** Number of stations for rotary tools 6 ** Standardized mounting of tool holders VDI 30 selon DIN 69880 DIN 1809 Drive of the rotary tools according to the standards DIN 1809 [mn] Max. cross section of tool shank 20 x 20 [mn] Spindle speed 30 - 5000 [mn] Power, continuous/intermittent 1,1/3,7 [kW] Torque, continuous / intermittent 7 / 23.5 [Nm] Integrated cooling and indexing in both directions of rotation \$ ** Pneumatic tailstock option [mn] Spindle OD 72 [mn] Spindle D 72 [mn] Acjustable pressing force 25 - 440 [aN] Colant supply 10 [mi] | Ball screw, dia. x pitch | (2 x 5) 32 x 10 | [mm] |
| Rapid feed, X and Z axis 8 / 15 m/mi Feed force, X and Z axes, continuous 500 [daN] Tooling: Turret with rotary tools "DUPLOMATIC" 1 4 Number of tool stations 12 1 4 <td>Tooling: Linear</td> <td></td> <td></td> | Tooling: Linear | | |
| Feed force, X and Z axes, continuous 500 [daN] Tooling: Turret with rotary tools «DUPLOMATIC» Number of tool stations 12 Number of stations for rotary tools 6 Standardized mounting of tool holders VDI 30 selon DIN 1898 Drive of the rotary tools according to the standards DIN 1809 Max. cross section of tool shank 20 x 20 Spindle speed 30 - 5'000 Power, continuous/intermittent 1,1/3,7 Torque, continuous/intermittent 7 / 23.5 Integrated cooling and indexing in both directions of rotation V Pneumatic tailstock Option Internal taper of the sleeve Mo 5 Spindle Stroke 80 Spindle stroke 80 Adjustable pressing force 25 - 440 Coolant supply Tank capacity 120 Pump performance 1,1 Pump capacity 8 Pressure of pump 5 - 7 Pressure of pump 5 - 7 Pressure of pump 5 - 7 Prespective of pump 5 - 7 | Cutting feedrate, X and Z axis | 0 - 5 | [m/min] |
| Tooling: Turret with rotary tools «DUPLOMATIC» Number of tool stations 12 Number of stations for rotary tools 6 Standardized mounting of tool holders VDI 30 selon DIN 69880 Drive of the rotary tools according to the standards DIN 1809 Max. cross section of tool shank 20 x 20 Spindle speed 30 -5'000 [mm] Power, continuous/intermittent 1,1/3,7 [kW] Torque, continuous / intermittent 7 / 23.5 [lm] Integrated cooling and indexing in both directions of rotation ** ** Pneumatic tailstock ** ** Spindle Stroke ** ** Spindle stroke 8 [mm] Adjustable pressing force 25 - 440 [dw] Coolant supply 12 [mm] Pump performance 1,1 [kW] Pump capacity 1 [kW] Pressure of pump 5 [ar] Pneumatic consumption 5 - 7 [bar] Min./max. pneumatic pressure 5 - 7 [bar] <t< td=""><td>Rapid feed, X and Z axis</td><td>8 / 15</td><td>[m/min]</td></t<> | Rapid feed, X and Z axis | 8 / 15 | [m/min] |
| Number of tool stations 12 Number of stations for rotary tools 6 Standardized mounting of tool holders VDI 30 selon DIN 69880 Drive of the rotary tools according to the standards DIN 1809 Max. cross section of tool shank 20 x 20 Spindle speed 30 - 5'000 Power, continuous/intermittent 1,1 / 3,7 Torque, continuous / intermittent 7 / 23.5 Integrated cooling and indexing in both directions of rotation - Pneumatic tailstock Option Internal taper of the sleeve Mo 5 Spindle OD 72 Spindle stroke 8 Adjustable pressing force 25 - 40 Coolant supply Tank capacity 1 Pump performance 1,1 Pump capacity 8 Pressure of pump 5 - 7 Presumatic consumption 5 - 7 Min./max. pneumatic pressure 5 - 7 Type of connection 3/8* Quality of the air Clean and dry | Feed force, X and Z axes, continuous | 500 | [daN] |
| Number of stations for rotary tools 6 Author of stations for rotary tools 6 Standardized mounting of tool holders VDI 30 selon DIN 69880 VDI 30 selon DIN 1809 Published properties of the rotary tools according to the standards DIN 1809 Immigrate properties of the rotary tools according to the standards DIN 1809 Immigrate properties of the rotary tools according to the standards DIN 1809 Immigrate properties of the rotary tools according to the standards Immigrate properties of the properties of rotation Immigrate properties of the properties of the standards of rotation Immigrate properties of the properties of rotation of rotation Immigrate properties of rotation of rotation Immigrate properties of rotation of rotati | Tooling: Turret with rotary tools | «DUPLOMATIC» | |
| Standardized mounting of tool holders VDI 30 selon DIN 69880 Drive of the rotary tools according to the standards DIN 1809 Max. cross section of tool shank 20 x 20 [mm] Spindle speed 30 - 5'000 [mm] Power, continuous/intermittent 1,1 / 3,7 [kW] Torque, continuous / intermittent 7 / 23.5 [km] Integrated cooling and indexing in both directions of rotation \$\sqrt{\text{option}}\$ \$\text{min.}"\text{approximates}\$ Pneumatic tailstock \$\sqrt{\text{option}}\$ \$\text{pm.}"\text{approximates}\$ Internal taper of the sleeve \$\text{Mo.}"\text{5}\$ Spindle OD 72 [mm] Spindle stroke 80 [mm] Adjustable pressing force 25 - 440 [daN] Coolant supply \$\text{2}\$ [M] Tank capacity \$\text{1}\$ [kW] Pump performance 1,1 [kW] Pump capacity 8 [min.] Presume of pump 5 - 7 [sor] Pince approximate consumption 5 - 7 [sor] Quality of t | Number of tool stations | 12 | |
| Drive of the rotary tools according to the standards DIN 1809 Max. cross section of tool shank 20 x 20 [mm] Spindle speed 30 - 5'000 [min 1] Power, continuous/intermittent 1,1/3,7 [kW] Torque, continuous / intermittent 7/23.5 [lm] Integrated cooling and indexing in both directions of rotation Image: continuous / intermittent Image: continuous / intermitt | Number of stations for rotary tools | 6 | |
| Max. cross section of tool shank 20 x 20 [mm] Spindle speed 30 - 5'000 [min*] Power, continuous/intermittent 1,1/3,7 [kW] Torque, continuous / intermittent 7 / 23.5 [Nm] Integrated cooling and indexing in both directions of rotation ✓ Pneumatic tailstock option Internal taper of the sleeve Mo 5 Spindle OD 72 [mm] Spindle stroke 80 [mm] Adjustable pressing force 25 - 440 [daN] Coolant supply 120 [l] Pump performance 1,1 [kW] Pump capacity 8 [l/min] Pressure of pump 5 [bar] Pneumatic consumption 5 - 7 [bar] Min./max. pneumatic pressure 5 - 7 [bar] Type of connection 3/8" [G] Quality of the air Clean and dry | Standardized mounting of tool holders | VDI 30 selon DIN 69880 | |
| Spindle speed 30 - 5'000 min'¹ Power, continuous/intermittent 1,1/3,7 kW Torque, continuous / intermittent 7 / 23.5 Nm Integrated cooling and indexing in both directions of rotation ✓ Pneumatic tailstock option Mo 5 Internal taper of the sleeve Mo 5 mm Spindle Stroke 80 mm Adjustable pressing force 25 - 40 [daN] Coolant supply 120 [] Pump performance 1,1 kW Pump capacity 8 [/min] Pressure of pump 5 [bar] Pneumatic consumption 5 [bar] Min./max. pneumatic pressure 5 - 7 [bar] Type of connection 3/8" [G] Quality of the air Clean and dry | Drive of the rotary tools according to the standards | DIN 1809 | |
| Power, continuous/intermittent 1,1/3,7 kWJ Torque, continuous / intermittent 7 / 23.5 kM Integrated cooling and indexing in both directions of rotation ✓ Pneumatic tailstock option Internal taper of the sleeve Mo 5 Spindle OD 72 kmm Spindle stroke 80 kmm Adjustable pressing force 25 - 440 kmm Coolant supply 120 kmm Tank capacity 120 kmm Pump performance 1,1 kWJ Pump capacity 8 kmm Pressure of pump 5 kmm Pneumatic consumption 5 kmm Min./max. pneumatic pressure 5 - 7 kmm Type of connection 3/8" kmm Quality of the air Clean and dry | Max. cross section of tool shank | 20 x 20 | [mm] |
| Torque, continuous / intermittent 7 / 23.5 [Nm] Integrated cooling and indexing in both directions of rotation V Pneumatic tailstock option Internal taper of the sleeve Mo 5 Spindle OD 72 Spindle stroke 80 Adjustable pressing force 25 - 440 Coolant supply Tank capacity 120 Pump performance 1,1 Pump capacity 8 Pressure of pump 5 Pressure of pump 5 Pneumatic consumption Min./max. pneumatic pressure 5 - 7 Type of connection 3/8" Quality of the air Clean and dry | Spindle speed | 30 - 5'000 | [min ⁻¹] |
| Pneumatic tailstock option Internal taper of the sleeve Mo 5 Spindle OD 72 Spindle stroke 80 Adjustable pressing force 25 - 440 Coolant supply Tank capacity 120 Pump performance 1,1 Pump capacity 8 Pressure of pump 5 Pneumatic consumption 5 - 7 Min./max. pneumatic pressure 5 - 7 Type of connection 3/8" Quality of the air Clean and dry | Power, continuous/intermittent | 1,1 / 3,7 | [kW] |
| Pneumatic tailstock option Internal taper of the sleeve Mo 5 Spindle OD 72 Spindle stroke 80 Adjustable pressing force 25 - 440 Coolant supply Tank capacity 120 Pump performance 1,1 Pump capacity 8 Pressure of pump 5 Pneumatic consumption Min./max. pneumatic pressure 5 - 7 Type of connection 3/8" Quality of the air Clean and dry | Torque, continuous / intermittent | 7 / 23.5 | [Nm] |
| Internal taper of the sleeve Mo 5 Spindle OD To 2 Spindle OD To 3 Spindle Stroke 80 Spindle Stroke </td <td>Integrated cooling and indexing in both directions of rotation</td> <td><u>✓</u></td> <td></td> | Integrated cooling and indexing in both directions of rotation | <u>✓</u> | |
| Spindle OD 72 [mm] Spindle stroke 80 [mm] Adjustable pressing force 25 - 440 [daN] Coolant supply Tank capacity 120 [] Pump performance 1,1 [kW] Pump capacity 8 [l/min] Pressure of pump 5 [bar] Pneumatic consumption Min./max. pneumatic pressure 5 - 7 [bar] Type of connection 3/8" [G] Quality of the air Clean and dry | Pneumatic tailstock | option | |
| Spindle stroke 80 [mm] Adjustable pressing force 25 - 440 [daN] Coolant supply Tank capacity 120 [J] Pump performance 1,1 [kW] Pump capacity 8 [l/min] Pressure of pump 5 [bar] Pneumatic consumption Min./max. pneumatic pressure 5 - 7 [bar] Type of connection 3/8" [G] Quality of the air Clean and dry | Internal taper of the sleeve | Mo 5 | |
| Adjustable pressing force 25 - 440 [daN] Coolant supply Tank capacity 120 [J] Pump performance 1,1 [kW] Pump capacity 8 [J/min] Pressure of pump 5 [bar] Pneumatic consumption 5 - 7 [bar] Min./max. pneumatic pressure 5 - 7 [bar] Type of connection 3/8" [G] Quality of the air Clean and dry | Spindle OD | 72 | [mm] |
| Coolant supplyTank capacity120 [I]Pump performance1,1 [kW]Pump capacity8 [I/min]Pressure of pump5 [bar]Pneumatic consumptionMin./max. pneumatic pressure5 - 7 [bar]Type of connection3/8" [G]Quality of the airClean and dry | Spindle stroke | 80 | [mm] |
| Tank capacity 120 [] Pump performance 1,1 [kW] Pump capacity 8 [l/min] Pressure of pump 5 [bar] Pneumatic consumption Min./max. pneumatic pressure 5 - 7 [bar] Type of connection 3/8" [G] Quality of the air Clean and dry | Adjustable pressing force | 25 - 440 | [daN] |
| Pump performance 1,1 [kW] Pump capacity 8 [l/min] Pressure of pump 5 [bar] Pneumatic consumption Min./max. pneumatic pressure 5 - 7 [bar] Type of connection 3/8" [G] Quality of the air Clean and dry | Coolant supply | | |
| Pump capacity Pressure of pump Pneumatic consumption Min./max. pneumatic pressure Type of connection Quality of the air [l/min] [bar] [bar] [bar] [c] Clean and dry | Tank capacity | 120 | [I] |
| Pressure of pump 5 [bar] Pneumatic consumption Min./max. pneumatic pressure 5 - 7 [bar] Type of connection 3/8" [G] Quality of the air Clean and dry | Pump performance | 1,1 | [kW] |
| Pneumatic consumptionMin./max. pneumatic pressure5 - 7 [bar]Type of connection3/8"Quality of the airClean and dry | Pump capacity | 8 | [l/min] |
| Min./max. pneumatic pressure5 - 7[bar]Type of connection3/8"[G]Quality of the airClean and dry | Pressure of pump | 5 | [bar] |
| Type of connection 3/8" [G] Quality of the air Clean and dry | Pneumatic consumption | | |
| Quality of the air Clean and dry | Min./max. pneumatic pressure | 5 - 7 | [bar] |
| · | Type of connection | 3/8" | [G] |
| Average consumption 4 - 6 [m³/h] | Quality of the air | Clean and dry | |
| | Average consumption | 4 - 6 | [m ³ /h] |

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| Electrical power supply | | |
|--|-----------------------|----------------------|
| Voltage | 400 | [V] |
| Tolerated fluctuations | +/- 5 | [%] |
| Other Voltage | option | [V] |
| Frequency | 50 | [Hz] |
| Tolerated fluctuations | +/- 5 | [%] |
| Rated current | 28 | [A] |
| Protection at mains end | 40 | [A] |
| Power consumption of the machine | 19,5 | [kVA] |
| Obstruction and weight | | |
| Overall dimensions: length x depth x height | 2'301 x 1'460 x 1'676 | [mm] |
| Approx. net weight of the machine (including oil) | 2'740 | [kg] |
| Floor load | 1'734 | [kg/m ²] |
| Load per square meter for one machine (in the workshop with many machines) | 400 | [kg/m ²] |
| Dimensions of the pallet [mm] | 3'000 x 1'800 | [mm] |
| Weight of the pallet | 230 | [kg] |
| Center height over floor | 1'061 | [mm] |
| Lubrication of slideways and ball screws | | |
| Kind of X slideways lubrication | Automatic | |
| Kind of Z slideways lubrication | Automatic | |
| Kind of grease or oil | Mobil DTE 25 | |
| Kind of X ball screws lubrication | Automatic | |
| Kind of Z ball screws lubrication | Automatic | |
| Kind of grease or oil | Mobil DTE 25 | |
| Various | | |
| Workpiece collector | option | |
| Color of the machine: SCHAUBLIN standard 2 colors, color 1, Grey | RAL 7035 | |
| Color of the machine: SCHAUBLIN standard 2 colors, color 2, Blue cobalt | RAL 5013 | |
| Noise level under load at the operator's station | | $[dB_{\Delta}]$ |
| Machine and equipment in accordance with the CE safety standards | | [a_A] |
| Operating temperature | +15 ⇒ +30 | [°C] |
| Relative humidity | 10 ⇒ 75 | |
| · | | [, -] |
| Control unit Type of control unit | Fanuc 0i-TD | |
| Screen | 10.4" LCD Color | |
| | | [Kbyte] |
| Memory Number of programs | 400 | [rtbyte] |
| Tool offsets | 64 | |
| | 0.001 | |
| Programmable increment Avia foodrate everride | | [0/] |
| Axis feedrate override Spindle override | 0-120 | |
| · | 50-120 | [%] |
| M-codes in one block Real/ground editing | 3 | |
| Background editing Constant surface appeal central | <u> </u> | |
| Constant surface speed control | | |
| Spindle positioning Pivid to a give (with Onited by | 0.1° | |
| Rigid tapping (with Spindle) | √ | |
| Multiple threading | ─ | |

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| Taper thread cutting ✓ Continuous threading ✓ Variable lead threading ✓ Custom Macro B ✓ Polar coordinate interpolation ✓ Helical Interpolation option Polygon turning ✓ Inch/Metric ✓ Languages control unit ✓ French ✓ German ✓ English ✓ Italian ✓ Spanish ✓ Portuguese ✓ Dutch ✓ Swedish ✓ Polish ✓ Vasian ✓ Polish ✓ Vacech ✓ Hungarian ✓ Vapanese ✓ Korean ✓ Chinese (simplified characters) ✓ Vinterface control unit ✓ Interface PCMCIA ✓ Interface PCMCIA ✓ Interface Ethernet option | | |
|--|----------------------------------|----------|
| Variable lead threading ✓ Custom Macro B ✓ Polar coordinate interpolation ✓ Cylindrical interpolation option Polygon turning ✓ Inch/Metric ✓ Languages control unit ✓ French ✓ German ✓ English ✓ Italian ✓ Spanish ✓ Portuguese ✓ Dutch ✓ Swedish ✓ Panish ✓ Vendish ✓ Unish ✓ Variable depth of the political control of the | Taper thread cutting | |
| Custom Macro B Y Polar coordinate interpolation Y Cylindrical interpolation option Polygon turning Y Inch/Metric Y Languages control unit French Y German Y English Y Italian Y Spanish Y Portuguese Y Dutch Y Swedish Y Danish Y Russian Y Polish Y Czech Y Hungarian Y Turkish Y Japanese Y Korean Y Chinese (simplified characters) Y Chinese (simplified characters) Y Interface control unit Y Interface PCMCIA Y | | |
| Polar coordinate interpolation ✓ Cylindrical interpolation ✓ Helical Interpolation option Polygon turning ✓ Inch/Metric ✓ Languages control unit French ✓ German ✓ English ✓ Italian ✓ Spanish ✓ Portuguese ✓ Dutch ✓ Swedish ✓ Danish ✓ Russian ✓ Polish ✓ Czech ✓ Hungarian ✓ Turkish ✓ Japanese ✓ Korean ✓ Chinese (simplified characters) ✓ Vinese (traditional characters) ✓ Interface control unit ✓ Interface PCMCIA ✓ | | |
| Cylindrical interpolation ✓ Helical Interpolation option Polygon turning ✓ Inch/Metric ✓ Languages control unit ✓ French ✓ German ✓ English ✓ Italian ✓ Spanish ✓ Portuguese ✓ Dutch ✓ Swedish ✓ Danish ✓ Russian ✓ Polish ✓ Czech ✓ Hungarian ✓ Vapanese ✓ Korean ✓ Chinese (simplified characters) ✓ Chinese (traditional characters) ✓ Interface control unit ✓ Interface PCMCIA ✓ | | |
| Helical Interpolation option Polygon turning / Inch/Metric / Languages control * 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 PCMCIA / | • | |
| Polygon turning ✓ Inch/Metric ✓ Languages control unit ✓ French ✓ German ✓ English ✓ Italian ✓ Spanish ✓ Portuguese ✓ Dutch ✓ Swedish ✓ Danish ✓ Russian ✓ Polish ✓ Czech ✓ Hungarian ✓ Turkish ✓ Japanese ✓ Korean ✓ Chinese (simplified characters) ✓ Vinese (traditional characters) ✓ Interface control unit ✓ Interface PCMCIA ✓ | | <u> </u> |
| 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 PCMCIA ✓ | | option |
| Languages control unit French ✓ German ✓ Inglish ✓ Italian ✓ Spanish ✓ Portuguese ✓ Dutch ✓ Swedish ✓ Danish ✓ Russian ✓ Polish ✓ Czech ✓ Hungarian ✓ Turkish ✓ Japanese ✓ Korean ✓ Chinese (simplified characters) ✓ Chinese (traditional characters) ✓ Interface control unit ✓ Interface PCMCIA ✓ | | |
| 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 PCMCIA ✓ | Inch/Metric | ✓ |
| 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 PCMCIA ✓ | Languages control unit | |
| English ✓ Italian ✓ Spanish ✓ Portuguese ✓ Dutch ✓ Swedish ✓ Danish ✓ Russian ✓ Polish ✓ Czech ✓ Hungarian ✓ Turkish ✓ Japanese ✓ Korean ✓ Chinese (simplified characters) ✓ Chinese (traditional characters) ✓ Interface control unit ✓ Interface PCMCIA ✓ | French | ✓ |
| Italian ✓ Spanish ✓ Portuguese ✓ Dutch ✓ Swedish ✓ Danish ✓ Russian ✓ Polish ✓ Czech ✓ Hungarian ✓ Turkish ✓ Japanese ✓ Korean ✓ Chinese (simplified characters) ✓ Chinese (traditional characters) ✓ Interface control unit ✓ Interface PCMCIA ✓ | German | |
| Italian ✓ Spanish ✓ Portuguese ✓ Dutch ✓ Swedish ✓ Danish ✓ Russian ✓ Polish ✓ Czech ✓ Hungarian ✓ Turkish ✓ Japanese ✓ Korean ✓ Chinese (simplified characters) ✓ Chinese (traditional characters) ✓ Interface control unit ✓ Interface PCMCIA ✓ | English | |
| Portuguese ✓ Dutch ✓ Swedish ✓ Danish ✓ Russian ✓ Polish ✓ Czech ✓ Hungarian ✓ Turkish ✓ Japanese ✓ Korean ✓ Chinese (simplified characters) ✓ Chinese (traditional characters) ✓ Interface control unit ✓ Interface PCMCIA ✓ | | |
| Dutch ✓ Swedish ✓ Danish ✓ Russian ✓ Polish ✓ Czech ✓ Hungarian ✓ Turkish ✓ Japanese ✓ Korean ✓ Chinese (simplified characters) ✓ Chinese (traditional characters) ✓ Interface control unit ✓ Interface PCMCIA ✓ | Spanish | |
| Swedish ✓ Danish ✓ Russian ✓ Polish ✓ Czech ✓ Hungarian ✓ Turkish ✓ Japanese ✓ Korean ✓ Chinese (simplified characters) ✓ Chinese (traditional characters) ✓ Interface control unit ✓ Interface PS232-C ✓ Interface POMCIA ✓ | Portuguese | |
| Danish ✓ Russian ✓ Polish ✓ Czech ✓ Hungarian ✓ Turkish ✓ Japanese ✓ Korean ✓ Chinese (simplified characters) ✓ Chinese (traditional characters) ✓ Interface control unit ✓ Interface PCMCIA ✓ | Dutch | ✓ |
| Russian ✓ Polish ✓ Czech ✓ Hungarian ✓ Turkish ✓ Japanese ✓ Korean ✓ Chinese (simplified characters) ✓ Chinese (traditional characters) ✓ Interface control unit ✓ Interface PCMCIA ✓ | Swedish | √ |
| Polish Czech Czech Hungarian Turkish Japanese Korean Chinese (simplified characters) Chinese (traditional characters) Interface control unit Interface RS232-C Interface PCMCIA | Danish | ✓ |
| Czech Hungarian Turkish Japanese Korean Chinese (simplified characters) Chinese (traditional characters) Interface control unit Interface RS232-C Interface PCMCIA | Russian | ✓ |
| Hungarian Turkish Japanese Korean Chinese (simplified characters) Chinese (traditional characters) Interface control unit Interface RS232-C Interface PCMCIA | Polish | ✓ |
| Turkish Japanese Korean Chinese (simplified characters) Chinese (traditional characters) Interface control unit Interface RS232-C Interface PCMCIA | Czech | ✓ |
| Japanese Korean Chinese (simplified characters) Chinese (traditional characters) Interface control unit Interface RS232-C Interface PCMCIA | Hungarian | ✓ |
| Korean Chinese (simplified characters) Chinese (traditional characters) Interface control unit Interface RS232-C Interface PCMCIA | Turkish | ✓ |
| Chinese (simplified characters) Chinese (traditional characters) Interface control unit Interface RS232-C Interface PCMCIA | Japanese | ✓ |
| Chinese (traditional characters) Interface control unit Interface RS232-C Interface PCMCIA ✓ | Korean | ✓ |
| Interface control unit Interface RS232-C Interface PCMCIA ✓ | Chinese (simplified characters) | ✓ |
| Interface RS232-C Interface PCMCIA ✓ | Chinese (traditional characters) | ✓ |
| Interface PCMCIA | Interface control unit | |
| Interface PCMCIA | Interface RS232-C | ✓ |
| Interface Ethernet option | | |
| | Interface Ethernet | option |