

Axis system

Number of CNC axes: 4 (X, Y, Z, B)

X-axis travel: 260 mm
Z-axis travel: 830 mm
Y-axis travel: ± 52.5 mm

Rapid traverse X: 30 m/min
Rapid traverse Z: 30 m/min
Rapid traverse Y: 10 m/min

Axis drive power X: 3.0 kW
Axis drive power Z: 4.0 kW
Axis drive power Y: 3.0 kW

Main spindle

Spindle speed: 4000 RPM
Spindle power (30 min): 33 kW
Spindle interface: ASA A2-8
Max spindle torque: 719 Nm
Spindle bearing diameter: 140 mm
Spindle bore: 91 mm

Chuck size (main spindle): 260 mm
Chuck type: 3-jaw hydraulic chuck

Sub spindle

Spindle speed: 6000 RPM
Spindle power (30 min): 18.2 kW
Spindle interface: ASA A2-5
Max spindle torque: 220 Nm
Spindle bearing diameter: 90 mm
Spindle bore: 62 mm

Chuck size (sub spindle): 170 mm
Chuck type: 3-jaw hydraulic chuck

Sub spindle power: 15 kW

Turret / tool system

Number of tool stations: 24
Driven tool stations: 12

Max tool speed: 5000 RPM
Driven tool power: 8.9 kW
Driven tool torque: 79.8 Nm

External tool holder size: 25 × 25 mm
Boring bar holder: 50 mm

Tool change time: 1.0 sec

Static tool holders: included

Coolant system

Coolant pressure: 5 bar
High pressure coolant system: 15 bar
Coolant pump: 1.5 kW
Maximum coolant pressure: 70 bar

Separate coolant tank: yes
Additional coolant tank: 600 L

Paper belt filter: included
Oil skimmer: belt type

Coolant mist extraction: included

Automation system

Portal loader system

Linear axis Z (portal slide longitudinal): CNC
Linear axis Y (portal slide transverse): CNC
Linear axis X (portal arm vertical): CNC
Rotary axis B (swivel head): CNC

Rotary indexing magazine: included

Parts unloading from sub spindle: included
Parts loading to main spindle: included

Parts conveyor: included

Gripper system

Double gripper system
3-point centering gripper
Pneumatic gripper actuation

Gripper monitoring open/closed
Gripping force safety system

Exchangeable gripper jaws

Monitoring and safety

Tool load monitoring
Machine overload protection
Door safety interlock
Full machine enclosure
Safety viewing window

3-color signal lamp

Lubrication

Central lubrication system
Permanent lubrication unit

Electrical equipment

Control cabinet: Rittal
Control system: Siemens CNC
Interface: I/O Link

Signal tower: 3 colors

Additional equipment

Chip conveyor with cart
Bar feeder interface
Parts catcher with conveyor
Radial driven tools (2)
Axial driven tools (2)

Machine lighting
Leveling elements

Tool package included
Machine manuals included

Software / operation

Automatic loading cycle
Automatic unloading cycle
Main spindle loading sequence
Sub spindle unloading sequence

Machine construction

Full enclosure design
Industrial safety guarding
Protective fencing (grid design)

Machine color: RAL 7035

Machine data

Machine weight: 6500 kg

Tool magazine monitoring
Magazine door safety
Maintenance air unit
Grease cartridge lubrication
Standard safety guards
Standard automation interface