**SBZ 122/71 Profile machining centre**

Profile machining centers

**Description**

- Designed for economical and efficient machining of aluminium, PVC and steel profiles
- All operations, such as routing, drilling and tapping, are performed while the profile bar is stationary to protect the profile surfaces
- A rotation unit (rotating mechanism) integrated into the spindle makes it possible to adjust the rotating angle head to 0°, -90°, -180° and -270°
- Better machining results thanks to the intelligent control technology
- Fast positioning of the machining unit with up to 120 m/min thanks to dynamic servo drives
- Tapping without compensation chuck
- Automatic clamp recognition and clamp positioning
- Ergonomic operation thanks to the advanced inclined bed
- Automatic tool changer with four tool tray positions (without tools)
- Automatic tool changer for an angle head
- State-of-the-art 3-axis controller
- The absolute rotary encoder system means no axis homing is required
- Automatic clamp recognition and positioning prevents collisions
- Power torque routing motor with enclosed speed control for short spindle start-up and braking times.
- Certified, drive-integrated safety functions
- Low power consumption thanks to the intelligent control technology
- DC link coupling in the axis drives for greater energy efficiency
- Uninterruptible power supply (UPS)
- Windows operating system
- 18.5" panel PC, i5 processor, USB ports and network connection
- Simple, stress-free program entry with eluCam on the operating panel, even during operation
- Remote online maintenance

**Machine configuration**

- Air-cooled 8 kW, S1 routing spindle
- Enclosure to protect the operator
- Four horizontal, pneumatic material clamping units
- A material stop on the left
- Tool holder HSK-F63
- Routing spindle with integrated rotation unit (0°, -90°, -180° and -270°) for angle head
- HSK-F63 rotating angle head for two tools
- Swarf trays for swarf removal
- Minimum-volume lubrication system
- High performance cutting fluid
- Hand-held operator terminal
- Depth gauge

**Options**

- Tools
- Tool holders
- Automatic tool changer for max. four standard tools
- Automatic tool changer for angle head
- Green Line cooling unit for the control cabinet with reduced energy consumption
- Barcode scanner
- Protective enclosure can optionally completely enclose the machine on all sides
Four clamps as standard. Can be equipped with up to eight clamps
Material reference stop (right) for positioning workpieces with overlength machining
Additional stop for overlength machining (left)
Length measurement on both sides
Double clamping and other accessories on request
21.6" panel PC, i7 processor
Note holder
Sound insulation hood

**Technical data**

**SBZ 122/71**

Max. machining length without profile end machining: 4,150 mm
Max. machining length with profile end machining: 4,000 mm
Traverse path X-axis: 4,295 mm, Vmax. 120 m/min.
Traverse path Y-axis: 910 mm, Vmax. 60 m/min.
Traverse path Z-axis: 475 mm, Vmax. 50 m/min.
Direction of machining: 5 (above, behind, front, left, right)
Positioning accuracy: +/- 0.1 mm
Routing spindle speed: max. 24,000 rpm
Routing spindle power: 8 kW, S1 with feedback (air-cooled)
Tool holder: HSK-F63
Tool changing: automatic
Tool tray positions in the automatic magazine: 4 (max. 16)
Angle head: Yes
Disc milling cutter diameter: 120 mm
Saw blade diameter: -
Tool length (from extent of taper): max. 150 mm
Clamp positioning: automatic
Clamps: Basic (with round guides)
Software: eluCam
Compressed air supply: > 7 bar
Power supply: 400 V, 3~, 50 Hz, 25 A
Air consumption per minute: approx. 185 l with spraying
Total length: 6,592 mm
Depth: 2,171 mm
Height: 3,000 mm
Weight: approx. 2,900 kg
Tool magazine

SBZ 122 models with a machining length of four meters are equipped with a stationary tool magazine with four positions as standard. Additional tool magazines can be installed as needed anywhere along the X-axis. (16 standard tools and two angle heads)

Machining area, Y and Z-axes
Profile machining from above

Double clamping

Machining area, Y and Z-axes
Profile machining from above and from behind
Machining area, Y and Z-axes
Profile machining from the front and from behind

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