

### **TECHNICAL SHEET**

17/07/2025

## SBZ122/71

#### **Machining Centres**



- Designed for economical and efficient machining of aluminium, PVC and thin-walled 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  $0^{\circ}$ ,  $-90^{\circ}$ ,  $-180^{\circ}$  and  $-270^{\circ}$
- 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**

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The right to make technical alterations is reserved.

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- 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

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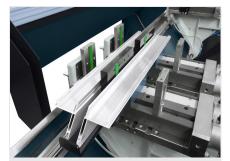
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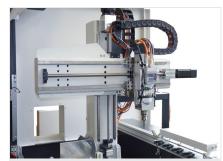


#### Tool magazine

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 und two angle heads)

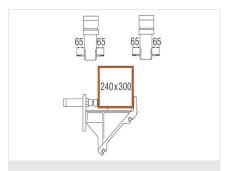


**Double clamping** 



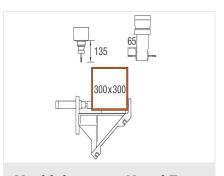
## Profile machining centre SBZ 122/71

A rotation unit (rotating mechanism) integrated into the spindle makes it possible to adjust the rotating angle head to 0°, -90°, -180° and -270°



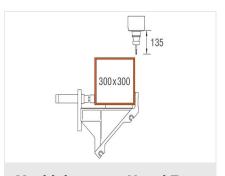
## Machining area, Y and Z-axes

Profile machining from the front and from behind



## Machining area, Y and Z-axes

Profile machining from above and from



## Machining area, Y and Z-axes

Profile machining from above

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#### SBZ 122/71 / MACHINING CENTRES

#### SBZ 122/71

Max. machining length without profile end machining Max. machining length with profile end machining

Traverse path X-axis Traverse path Y-axis Traverse path Z-axis Direction of machining Positioning accuracy Routing spindle speed

Routing spindle power

Tool holder
Tool changing

Tool tray positions in the automatic magazine

Angle head

Disc milling cutter diameter

Saw blade diameter

Tool length (from extent of taper)

Clamp positioning

Clamps Software

Compressed air supply

Power supply

Air consumption per minute

Total length Depth Height Weight 4,150 mm 4,000 mm

4,295 mm, Vmax. 120 m/min. 910 mm, Vmax. 60 m/min. 475 mm, Vmax. 50 m/min.

5 (above, behind, front, left, right)

+/- 0.1 mm max. 24,000 rpm

8 kW, S1 with feedback (air-cooled)

HSK-F63 automatic 4 (max. 16) Yes

120 mm

-

max. 150 mm automatic

Basic (with round guides)

eluCam > 7 bar

400 V, 3~, 50 Hz, 25 A approx. 185 I with spraying

6,592 mm 2,171 mm 3,000 mm

approx. 2,900 kg