elumatec

TECHNICAL SHEET

05/09/2025





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
- Better machining results thanks to the intelligent control technology
- Fast positioning of the machining unit with up to 60 m/min thanks to dynamic servo drives
- Tapping without compensation chuck
- Automatic clamp recognition and clamp positioning
- Automatic tool changer with four tool tray positions (without tools)
- State-of-the-art 3-axis controller
- Ergonomic operation thanks to the advanced inclined bed
- 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
- 15.6" panel PC, i3 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
- Minimum-volume lubrication system
- High performance cutting fluid
- Hand-held operator terminal
- Depth gauge

Options



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- Tools
- Tool holders
- Automatic tool changer for max. four standard tools
- Automatic tool changer for angle head
- HSK-F63 rotating angle head for two tools
- 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
- 18.5" panel PC, i5 processor
- 21.6" panel PC, i7 processor
- Note holder
- Sound insulation hood
- Swarf trays for swarf removal



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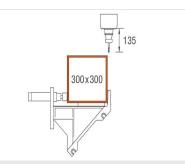


Tool magazine

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 Xaxis. (16 standard tools und two angle heads)

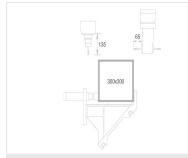


Machining unit



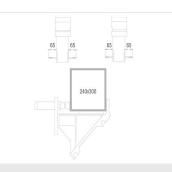
Machining area, Y and Zaxes

Profile machining from above



Machining area, Y and Zaxes

Profile machining from above and from behind (optional)



Machining area, Y and Zaxes

Profile machining from the front and from behind (optional)



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SBZ 122/70 PLUS / MACHINING CENTRES

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SBZ 122/70 plus

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 (optional) 4,295 mm, Vmax. 60 m/min. 910 mm, Vmax. 45 m/min. 475 mm, Vmax. 60 m/min. 1 (from above), (5 optional) +/- 0.1 mm max. 24,000 rpm 8 kW, S1 with feedback (air-cooled) HSK-F63 automatic 4 (max. 16) Optional 100 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

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