



SBZ122/74

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-axis continuously adjustable from -120° to $+120^{\circ}$
- Clamp positioning autonomous
- 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
- Automatic tool changer with twelve tool tray positions (without tools)
- State-of-the-art 4-axis controller
- Ergonomic operation thanks to the advanced inclined bed
- The absolute rotary encoder system means no main 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



- Water-cooled 7 kW, S1 routing spindle
- Autonomous clamp positioning
- Automatic clamp recognition
- Enclosure to protect the operator
- Four horizontal, pneumatic material clamping units
- A material stop on the left
- Tool holder HSK-F63
- Swarf trays for swarf removal
- Minimum-volume lubrication system
- High performance cutting fluid
- Hand-held operator terminal
- Depth gauge

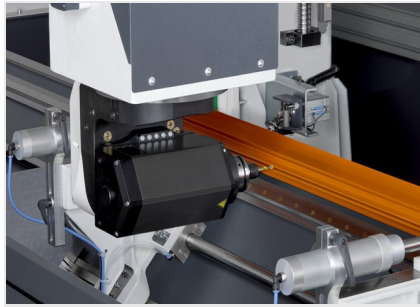
Options

- Tools
- Tool holders
- Length measurement on both sides
- Additional stop for overlength machining (left)
- Material reference stop (right) for positioning workpieces with overlength machining
- 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
- Double clamping and other accessories on request
- 21.6" panel PC, i7 processor
- Note holder
- Sound insulation hood
- Clamping unit optimised to prevent collisions

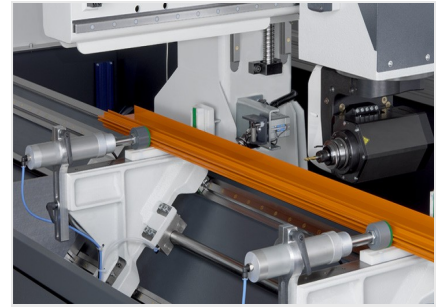


Tool magazine

The tool magazine with 12-fold tool changer allows quick, easy setup and minimal secondary time



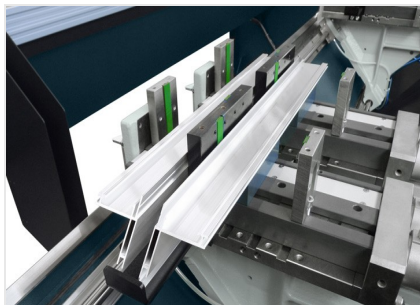
Profile machining centre SBZ 122/74



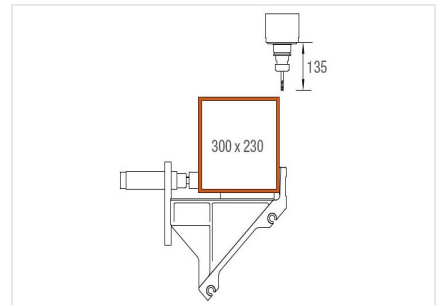
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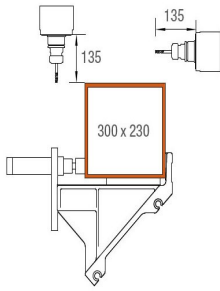
Double clamping



Machining area, Y and Z-axes

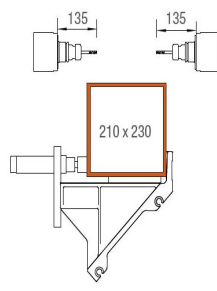
Profile machining from above





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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Max. Machining length <i>without end face machining</i>	4.050 mm
Max. Machining length <i>with end face machining</i>	-
Traverse path X-axis	4.176 mm, Vmax. 120 m/min.
Traverse path Y-axis	1.040 mm, Vmax. 60 m/min.
Traverse path Z-axis	540 mm, Vmax. 30 m/min.
Machining direction	3 (top, rear, front)
Positioning accuracy	+/- 0,1 mm
Milling spindle speed	max. 20.000 1/min.
Milling spindle power	7 kW, S1 (wassergekühlt)
Tool holder	HSK-F63
Tool change	automatic
Tool storage locations <i>in the automatic magazine</i>	12
Angled head	No
Disc cutter diameter	120 mm
Saw blade diameter	-
Tool length (from taper dimension)	max. 150 mm
Clamp displacement	autonomous
Clamp	Premium (with linear guide)
Software	eluCam
Compressed air connection	>7 bar
Electrical connection	400 V, 3~, 50 Hz, 25 A
Air consumption per minute	approx. 185 litres with spraying
Overall length	7.643 mm
Depth	2.171 mm
Height	3.000mm
Weight	ca. 3.800 kg