

## SBZ122/73

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°
- Clamp positioning automatic
- 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 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
- 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
- Additional stop for overlength machining (left)
- Material reference stop (right) for positioning workpieces with overlength machining and second clamping disc
- 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, with additional sound insulation
- 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
- Wireless measurement sensor



### A-axis angle adjustment

Continuously adjustable angle setting from -120° to +120°



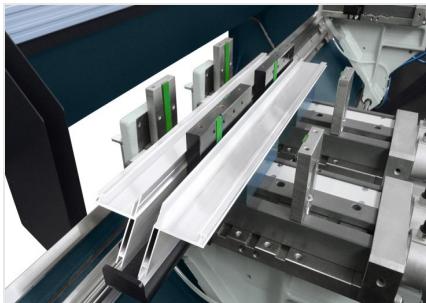
### Profile machining centre SBZ 122/73

Inclined bed



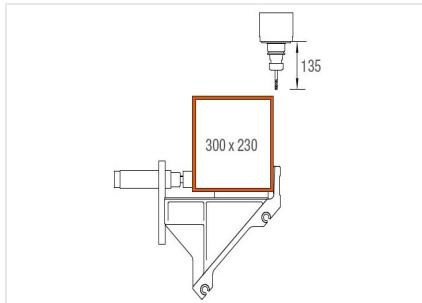
### Tool magazine

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



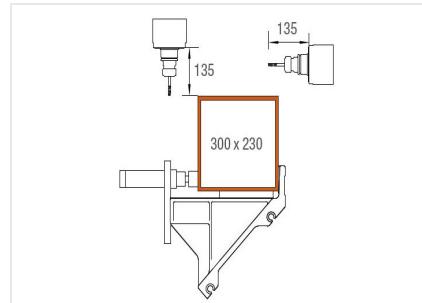
### Profile machining centre SBZ 122/73

Double clamping unit



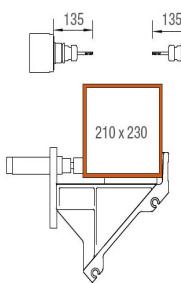
### Machining area, Y and Z-axes

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

## SBZ 122/73 / MACHINING CENTRES

## SBZ 122/73

|   |                             |
|---|-----------------------------|
| Max. machining length without profile end machining | 4,050 mm                    |
| Max. machining length with profile end machining    | -                           |
| 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.     |
| Direction of machining                              | 3 (above, behind, front)    |
| Positioning accuracy                                | +/- 0.1 mm                  |
| Routing spindle speed                               | max. 20,000 rpm             |
| Routing spindle power                               | 7 kW, S1 (water-cooled)     |
| Tool holder   | HSK-F63                     |
| Tool changing                                       | automatic                   |
| Tool tray positions in the automatic magazine       | 12                          |
| Angle head  | No                          |
| Disc milling cutter diameter                        | 120 mm                      |
| Saw blade diameter                                  | -                           |
| Tool length (from extent of taper)                  | max. 150 mm                 |
| Clamp positioning                                   | automatic                   |
| Clamps  | Basic (with linear 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  | 7,643 mm                    |
| Depth   | 2,171 mm                    |
| Height  | 3,000 mm                    |
| Weight  | approx. 3,800 kg            |