

## SBZ 122/74

### PROFILE MACHINING CENTRE



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The family of entirely redesigned SBZ 122 models have set new benchmarks in terms of performance, ergonomics and utility in the entry-level segment of the aluminium, PVC and steel profile machining industry. Intelligent control technology, powerful servo motors and a machine bed designed for high rates of travel deliver perfect finishing with high speed and efficiency. State-of-the-art components such as the control system, the RPM-regulated spindles and the energy-efficient drives save operating costs and ensure optimal machining results. The new generation of SBZ 122 machines maximize the available machining area while minimizing the footprint, providing an additional boost to the total productivity per square meter. The model series' modular design is another advantage. It makes it easy to configure the machine to perfectly match the customer's various requirements. The different models and equipment variants allow users to configure and select a machine the perfectly fits their requirements:

- **SBZ 122/74: 4-axis model for metal construction and industrial applications**

includes autonomous clamp positioning, clamps with linear guides, A-axis for continuously variable angle adjustment, tapping without a compensation chuck **Your advantages at a glance**

- Machining area up to 300 x 300 mm
- Minimized footprint thanks to the machine's protective enclosure
- Precise machining results even at high rates of travel
- Low power consumption thanks to the intelligent control technology
- High process reliability, even under quickly changing loads, due to RPM-regulated spindles

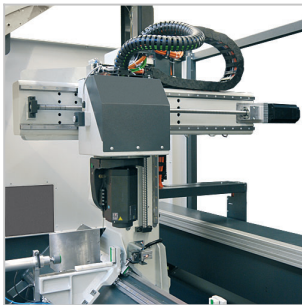
- Short machining cycles thanks to the servo axes' high rate of travel
- Ergonomic operation thanks to the modern inclined bed, uncovered spindle and height-adjustable control unit
- Increased work safety thanks to remote-controlled clamp activation and protective enclosure
- Machine installation within a very short period of time

**A-axis angle adjustment** Four-axis machine SBZ 122/74 with continuously adjustable angle setting from  $-120^{\circ}$  to  $+120^{\circ}$  in the SBZ 122/74 **New machine bed** The new design is fully comprehensive. The travelling column moves on a machine bed that is executed as a modern inclined bed. Swarf automatically falls off of the  $45^{\circ}$  incline, making cleaning much easier. The operator can step close to the workpiece table when positioning profiles, ensuring an ergonomic economy of motion. The bed is dimensioned for high rates of travel with minimal oscillation. The machine has a large work area despite its small overall footprint. Noise reduction is a further benefit of the protective enclosure. **Clamps** Included as standard equipment on the SBZ 122 are four completely redesigned clamps featuring a slim form and high degree of stiffness. The machine can optionally be equipped with up to eight clamps. In the SBZ 122/74, the clamps are equipped with linear guides instead of round guides. **Technical specifications**

- Max. processing length 4,100 mm
- A-axis angle adjustment  $-120^{\circ}$  to  $+120^{\circ}$  continuously adjustable
- Traverse path X-axis 4,170 mm,  $V_{max}$ . 100 m/min.
- Traverse path Y-axis 900 mm,  $V_{max}$ . 60 m/min.
- Traverse path Z-axis 500mm,  $V_{max}$ . 30 m/min.
- Routing spindle speed max. 20,000 rpm
- Routing spindle power 7 kW, S1
- Tool holder HSK-63F
- Automatic tool changing
- Clamp positioning autonomous
- Clamps Premium (with linear guides)

### Configuration options

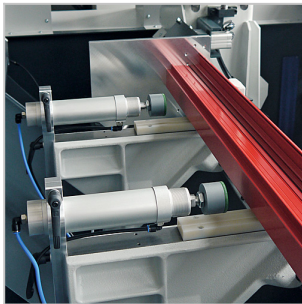
- Optional protective enclosure to completely enclose the machine on all sides, with additional sound insulation.
- Easy and intuitive operation thanks to the modern elumatec Customer Interface (ECI)
- Stationary tool magazine with four positions, optional flexible expansion to include additional tool magazines for a total of up to 20 positions.
- Four clamps as standard. Up to eight clamps can be equipped as an option
- Optional material reference stop (right) for positioning workpieces
- Additional configuration options: multi-spindle boring heads, vacuum clamping tables, double clamping and other accessories on request



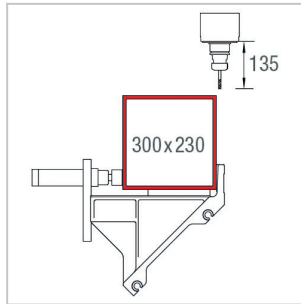
**A-axis angle adjustment**  
Four-axis machine SBZ 122/74 with continuously adjustable angle setting from  $-120^{\circ}$  to  $+120^{\circ}$



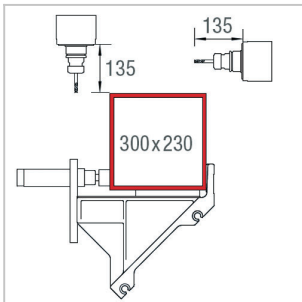
**Profile machining centre SBZ 122/74**  
New machine bed



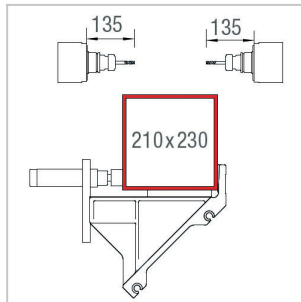
**Clamps**  
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**Traverse path, Y and Z-axes SBZ122/74**  
Profile machining from above



**Traverse path, Y and Z-axes SBZ122/74**  
Profile machining from above and from behind



**Traverse path, Y and Z-axes SBZ122/74**  
Profile machining from the front and from behind