SBZ125/85

Machining Centres

Save time, save space, save money: the SBZ 125/85 profile machining centre is supplied with an enclosed cabin machine with an eight-metre working length and five axes that can replace two smaller machines thanks to dynamic shuttle operation. When enhancing the successful SBZ 122 range, elumatec has used customer feedback to optimise ergonomics, access and set-up times. The new model makes machining aluminium, PVC and thin-walled steel profiles even more economical and efficient.

Cab machines are popular because they keep swarf contained and reduce noise, and elumatec has given the SBZ 125/85 integrated safety area monitoring with a fully programmable laser. The SBZ 125/85 is a major step forward for the elumatec range thanks to a new rotating control unit, extended functionality and new technology for faster tool changes, and more versions of the redesigned cabin machine are already in the pipeline. The SBZ 125/85 is also eluCloud ready in order to meet the requirements of Industry 4.0.

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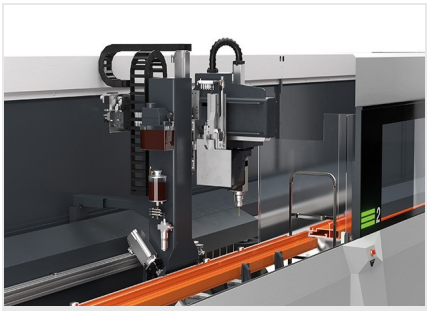
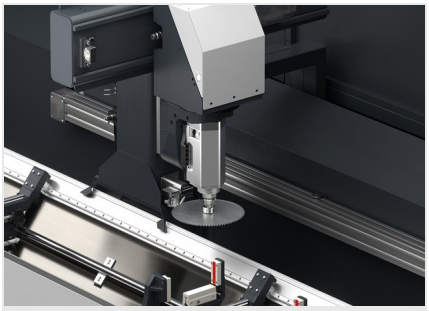
Autonomus clamp positioning

The clamp automatically switches between the loading and machining positions. The ergonomics during insertion have been improved, and the machining paths are used as effectively as possible by moving the material into the centre of the machine beforehand to ensure optimum machining by the tool. Conversion to other profile widths and cross-sections is quick and does not require any tools, and the SBZ 125/85 makes pre-configuring the clamps for different profile contours and cross-sections much easier.



Dynamic shuttle operation

Dynamic shuttle operation enables parallel routing and insertion of the material, which significantly increases the machining speed and allows long parts that extend beyond the centre of the SBZ 125/85 to be machined. And a new rotating control unit makes it easier to monitor operation: designed as a column with a rotating screen, the unit can be used as needed and provides an unobstructed field of vision to make operation even safer.

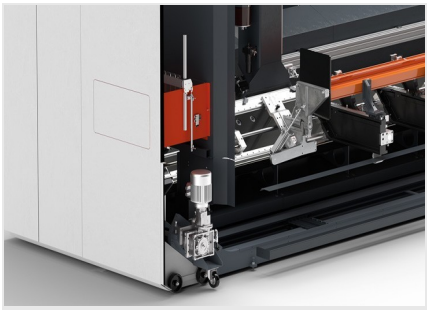


New technology for tool changes

Faster set-up times, more flexibility: new technology for tool changes shortens the change over times for the SBZ 125/85, which saves time and money. A larger changer is used, which also increases the working area.

Ergonomic optimized machining paths

The SBZ 125/85 offers simplified and enhanced clamp adjustment, which allows the different profiles to be machined. Adjustable clamps on the Y-axis improve ergonomics during insertion. The material then moves to the centre of the machine, making it as easy as possible for the tool to reach and machine it.



Optional chip conveyor

An optional waste (chip) conveyor can be integrated into the machine, which directs coarse chips and profile sections straight into a container to make it easier to keep the inside of the SBZ 125/85 clean.

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Dimensions

Total length	11,350 mm
Depth	2,950 mm
Weight	approx. 6,400 kg
Height (with retracted Z-axis without optional roof)	2,500 mm

Spindle And Tools

Clamp positioning	autonomus
Clamps	8 standard (+ max. 4 optional)
Saw blade diameter	300 mm
Tool changing	automatic
Angle head	no
Routing spindle speed	max. 20,000 rpm
Routing spindle power	7 kW, S1 with feedback (air-cooled)
Tool holder	HSK-F63
Tool tray positions in the automatic magazine	12
Tool length	max. 150 mm (from extent of taper)
Disc milling cutter diameter	120 mm

Axis

Max. machining length without profile end machining	Shuttle operation 3.450 mm Combined operation 8.245 mm
Max. machining length with profile end machining	Shuttle operation 3.100 mm Combined operation 8.245 mm
Max. machining length for notching	Shuttle operation 3.300 mm Combined operation 8.245 mm
Positioning accuracy	+/- 0.1 mm
Direction of machining	5 (above, behind, front, left, right)
X-axis traverse path	10,260 mm, Vmax. 100 m/min.
Y-axis traverse path	1,040 mm, Vmax. 60 m/min.
Z-axis traverse path	540 mm, Vmax. 30 m/min.

Software And Connections

Software	eluCam
Compressed air supply	> 7 bar

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Software And Connections

CE power supply (UL optional)	400 V, 3~, 50 Hz, 35 A

Included ● Available ○

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