

TECHNICAL SHEET

05/12/2025

SBZ141

Machining centres



- 4-axis profile machining centre
- Designed for economical and efficient machining of aluminium and thin-walled steel profiles
- Standard version with air-cooled router spindle (version with water-cooled router spindle available optionally)
- All operations, such as routing, drilling and tapping, are performed while the profile bar is stationary to protect the profile surfaces
- Machining with all tools at angles continuously adjustable from -90° to +90°
- Autonomous clamp positioning with absolute measurement system
- The on-board tool magazine ensures that tool changing times are kept short, thereby optimizing machining cycles
- The magazine can be equipped with eight tools
- Up to two rotating angle heads with two different tools are optionally available for double-bar and end machining (0 $^{\circ}$ 90 $^{\circ}$ 180 $^{\circ}$ 270 $^{\circ}$) (optional)
- Two separate working zones enable machining in shuttle operation (optional). There is a central laser scanner on the operator's side to protect the area for maximum safety.
- 4-axis controller
- 18.5" colour display, USB ports and network connection
- Windows operating system
- eluCam

Machining lengths

SBZ 141 - 4.2 m

- Max. machining length with profile end machining, 4,200 mm
- Max. machining length without profile end machining, 4,320 mm

SBZ 141 - 7.6 m

- Max. machining length with profile end machining, 7,600 mm
- Max. machining length without profile end machining, 7,720 mm

SBZ 141 - 9.7 m

- Max. machining length with profile end machining, 9,700 mm
- Max. machining length without profile end machining, 9,820 mm

Options



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- Shuttle operation for working on two sides
- Automatic length measurement on both sides
- Clamping unit accommodates double profile machining
- Barcode scanner
- Stationary tool magazine (16x)
- On-board tool changers for angle head or saw head
- Angle routing heads
- Saw head
- Tool holders
- Collet chucks
- Collets
- Tools
- eluCad (office software package for optimised production management)

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Profile Machining Centre SBZ 141



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SBZ 141 / MACHINING CENTRES

SBZ 141

Max. machining length without profile end machining 4,320 mm, 7,720 mm, 9,820 mm

Max. machining length with profile end machining 4,200 mm, 7,600 mm, 9,700 mm

4,200 mm, 7,600 mm, 9,700 mm

Traverse path X-axis 4,320 mm, 7,720 mm, 9,820 mm

(additional lengths on request), Vmax. 63 m/min. Traverse path Y-axis 845 mm, Vmax. 60 m/min.

Traverse path Z-axis 620 mm, Vmax. 60 m/min.

A-axis pivoting range $-90^{\circ} \ 0^{\circ} +90^{\circ}$ Spindle speed max. 24,000 rpm

Spindle power output 11 kW S1

Direction of machining top / front / rear / (left/right)

Positioning accuracy 0.1 mm/m
Tool holder HSK-63F

Tool changing Tool changer for eight tools,

additional tool positions on request

Tool tray positions in the automatic magazine

Angle head

Disc milling cutter diameter Saw blade diameter

Clamp positioning Clamps

Software Compressed air supply

Power supply

Air consumption per minute

Total length Depth

Height Weight max. 2 (optional)

120 mm 180 mm autonomous

4 / 8 / 12 (max. 16)

eluCam > 7 bar

400 V, 3~, 50 Hz, 63 A

approx. 180 l/min. with spraying

approx. 7,700 mm, 11,240 mm, 13,390 mm

approx. 3,400 mm approx. 2,950 mm

approx. 5,000 kg / 7,400 kg / 8,200 kg