



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 $+90^{\circ}$
- 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° - 90° - 180° - 270°) (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

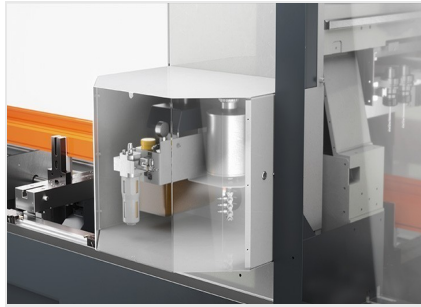


Options

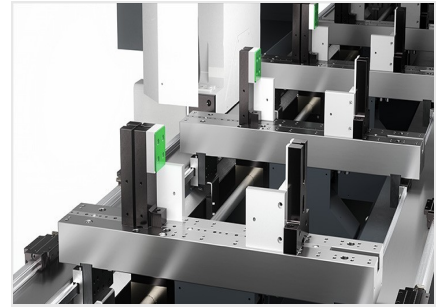
- Shuttle operation for working on two sides
- Automatic length measurement on both sides
- Clamping unit accommodates double profile machining
- Barcode scanner
- Stationary tool magazine (16x)
- On-board tool changers for angle head or saw head
- Angle routing heads
- Saw head
- Tool holders
- Collet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



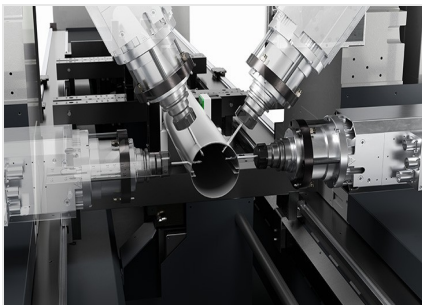
**Profile Machining Centre
SBZ 141**



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SBZ 141 / MACHINING CENTRES

SBZ 141

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|---|--|
| 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 |
| 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° 0° +90° |
| 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 | 8 |
| Angle head | max. 2 (optional) |
| Disc milling cutter diameter | 120 mm |
| Saw blade diameter | 180 mm |
| Clamp positioning | autonomous |
| Clamps | 4 / 8 / 12 (max. 16) |
| Software | eluCam |
| Compressed air supply | > 7 bar |
| Power supply | 400 V, 3~, 50 Hz, 63 A |
| Air consumption per minute | approx. 180 l/min. with spraying |
| Total length | approx. 7,700 mm, 11,240 mm, 13,390 mm |
| Depth | approx. 3,400 mm |
| Height | approx. 2,950 mm |
| Weight | approx. 5,000 kg / 7,400 kg / 8,200 kg |