



## SBZ141

### Portal machining centers



- 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  $-90^{\circ}$  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 ( $0^{\circ}$  -  $90^{\circ}$  -  $180^{\circ}$  -  $270^{\circ}$ ) (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

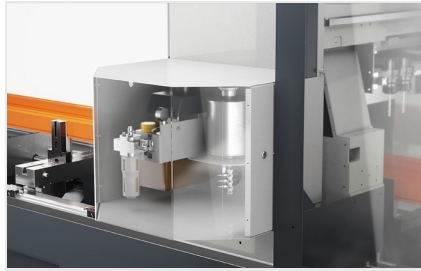


- Shuttle operation for working on two sides
- Automatic length measurement on both sides
- Clamping unit accommodates double profile machining
- Barcode scanner
- Stationary tool magazine (16x)
- On-board tool changers for angle head or saw head
- Angle routing heads
- Saw head
- Tool holders
- Collet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

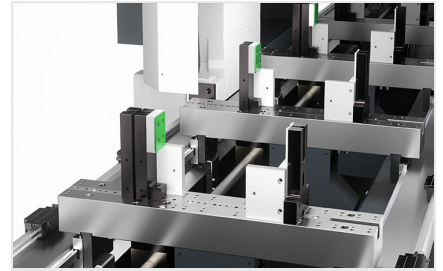




**Profile Machining Centre  
SBZ 141**



**Profile Machining Centre  
SBZ 141**



**Profile Machining Centre  
SBZ 141**



**Profile Machining Centre  
SBZ 141**





### SBZ 141 / PORTAL MACHINING CENTERS

#### 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
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