

SBZ 151 Flexium+

PROFILE MACHINING CENTRE



PROFILE MACHINING CENTRE SBZ 151 FLEXIUM+



Description

- 5-axis profile machining centre
- Designed for economical and efficient machining of aluminium and thin-walled steel profiles
- All operations, such as routing, drilling, tapping, thread milling, notching and sawing, are performed while the profile bar is stationary to protect the profile surfaces
- 6-sided machining. From below with an angle head (option)
- The on-board tool magazines ensure that tool changing times are kept short, thereby optimising machining cycles
- The magazines can be equipped with 13 standard tools and seven special tools (angle routing head and special cutters). One magazine for the saw blade, diameter 400 mm or 500 mm
- Automatic positioning by means of autonomous clamp positioning
- Two separate working zones enable machining in shuttle operation
- A 5-axis CNC technology package delivers the best possible efficiency for every imaginable machining task
- Certified, drive-integrated safety functions
 - STO = Safe Torque Off
 - SS2 = Safe Stop 2
 - SLS = Safely Limited Speed
- Connectivity provided by serial and USB ports as well as a network connection
- Windows operating system
- Remote maintenance via TCP/IP using existing Internet connection

Technical specifications

- X-axis traverse path 6,000 mm, 7,300 mm, 9,000 mm, 10,300 mm, 12,000 mm, 15,000 mm, 16,300 mm, Vmax. 60 m/min.
- Y-axis traverse path 1,150 mm, Vmax. 40 m/min.
- Z-axis traverse path 715 mm, Vmax. 40 m/min.
- A-axis pivoting angle (for saw blade with diameter of 400 mm) +/-110°
- C-axis pivoting angle +/-180°
- Positioning accuracy
 - X-axis +/-0.1 mm
 - Y-axis +/-0.1 mm
 - Z-axis +/-0.1 mm
 - A-axis +/-0.1°
 - C-axis +/-0.1°
- Max. spindle speed 24,000 rpm
- Spindle power output 21 kW S1
- Right tool changer with 20 tool positions
- Left tool changer, one saw blade, with a diameter of up to 500 mm max.
- Cutting tool diameter 100 mm max.
- Tool holder HSK-63F
- Compressed air supply 7 bar
- Power supply 400 V, 3~, 50 Hz, 50 A
- Air consumption per minute approx. 265 l with spraying

Machining lengths

SBZ 151 Flexium+ - 6.0 m

- Max. machining length with profile end machining, 5,700 mm
- Max. machining length without profile end machining, 6,020 mm

SBZ 151 Flexium+ - 7.3 m

- Max. machining length with profile end machining, 6,980 mm
- Max. machining length without profile end machining, 7,300 mm

SBZ 151 Flexium+ - 9.0 m

- Max. machining length with profile end machining, 8,700 mm
- Max. machining length without profile end machining, 9,020 mm

SBZ 151 Flexium+ - 10.3 m

- Max. machining length with profile end machining, 9,980 mm
- Max. machining length without profile end machining, 10,300 mm

SBZ 151 Flexium+ - 12.0 m

- Max. machining length with profile end machining, 11,700 mm
- Max. machining length without profile end machining, 12,020 mm

SBZ 151 Flexium+ - 15.0 m

- Max. machining length with profile end machining, 14,700 mm
- Max. machining length without profile end machining, 15,020 mm

SBZ 151 Flexium+ - 16.3 m

- Max. machining length with profile end machining, 15,980 mm
- Max. machining length without profile end machining, 16,300 mm

Options

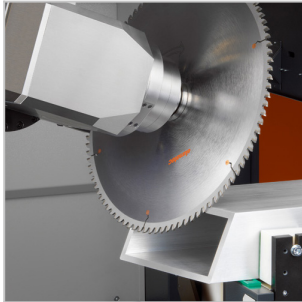
- Angle routing heads for machining from below
- Automatic length measurement
- Chips conveyor belt
- Barcode scanner
- Tool holders
- Collet chucks
- Collets
- Saw blades
- Tools
- eluCad (office software package for optimized production management)



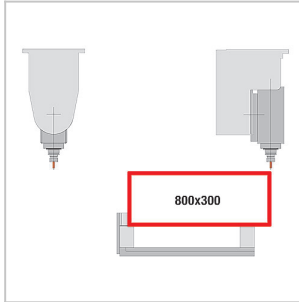
Profile machining centre SBZ 151 Flexium+
SBZ 151 Flexium+ with special accessories



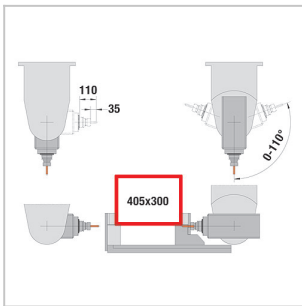
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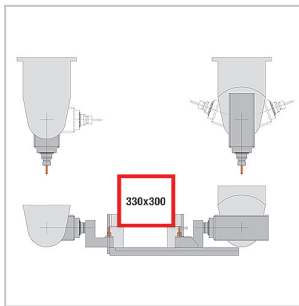
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