

SBZ 151

Profile Machining Center



- 5-axis profile machining center
- Designed for economical and efficient machining of aluminum 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 processing. Machining from below with an angle head (option)
- The on-board tool magazines ensure that tool changing times are kept short, thereby optimizing working cycles
- The magazines can be equipped with 13 standard tools and 7 special tools (angle routing head and special cutters). One magazine for the saw blade, diameter 400 mm (15.7 in.) or 500 mm (19.6 in.)
- Automatic positioning by means of autonomous clamp positioning
- 2 separate working zones enable machining in shuttle operation
- A 5-axis CNC technology package delivers the best possible efficiency for every imaginable machining task
- Connectivity is provided by serial and USB ports as well as a network connection
- Windows® operating system
- Requires eluCad deluxe machining software
- One (1) year limited warranty

Technical specifications

- X-axis travelling range: 6,000 mm (19.7 ft.), 7,300 mm (23.9 ft.), 9,000 mm (29.5 ft.), 10,300 mm (33.8 ft.), 12,000 mm (39.4 ft.), 15,000 mm (49.2 ft.), or 16,300 mm (53.4 ft.) (additional lengths on request) at a maximum rate of 60 m/min (196 ft./min.)
- Y-axis travelling range: 1,150 mm (45.2 in.) at a maximum rate of 40 m/min (131.2 ft./min.)
- Z-axis travelling range: 715 mm (28.1 in.) at a maximum rate of 40 m/min (131.2 ft./min.)
- A-axis pivoting angle (for a saw blade with a diameter of 400 mm (15.7 in.)) : +/-110°, user programmable in 1/10° steps
- C-axis pivoting angle: +/-180°, user programmable in 1/10° steps
- Spindle speed: 24,000 rpm max.
- Spindle power output 21 kW (28 hp), S1 (Continuous Duty)
- Right tool changer: 20 tool positions
- Left tool changer: 1 saw blade with a diameter of up to 500 mm (19.6 in.) max.
- Cutting tool diameter: 100 mm (3.9 in.) max.
- HSK-63F Tool holder
- Power supply: 240/480 V, 3 phase, 60 Hz (contact elumatec North America for other voltages)
- Compressed air supply: 7 bar (100 psi)
- Air consumption: approx. 265 l/min. (9.3 ft³/min.) with spray mist tool lubrication

SBZ 151 Dimensions

	6.0 m	7.3 m	9.0 m	10.3 m	12 m	15 m	16.3 m
Maximum processing length without processing the profile ends	6,020 mm (237.0 in.)	7,300 mm (287.4 in.)	9,020 mm (355.1 in.)	10,300 mm (405.5 in.)	12,020 mm (473.2 in.)	15,020 mm (591.3 in.)	16,300 mm (641.7 in.)
Maximum processing length with processing the profile ends	5,700 mm (224.4 in.)	6,980 mm (274.8 in.)	8,700 mm (342.5 in.)	9,980 mm (392.9 in.)	11,700 mm (460.6 in.)	14,700 mm (578.7 in.)	15,980 mm (629.1 in.)
Overall Length:	11,865 mm (467.1 in.)	13,230 mm (520.8 in.)	14,930 mm (587.7 in.)	16,230 mm (638.9 in.)	17,930 mm (705.9 in.)	20,930 mm (824.0 in.)	22,230 mm (875.2 in.)
Overall Depth:	4,950 mm (194.8 in.)						
Overall Height:	2,900 mm (114.2 in.)						
Weight:	6,500 kg (14,330 lb.)	7,000 kg (15,435 lb.)	8,200 kg (18,080 lb.)	8,800 kg (19,400 lb.)	10,000 kg (22,050 lb.)	11,700 kg (25,795 lb.)	12,300 kg (27,120 lb.)

Available options for the SBZ 151

- Angle routing heads for machining from below
- Automatic length measurement
- Chip conveyor belt
- Barcode scanner
- Tool holders
- Collet chucks
- Collets
- Saw blades
- Cutting tools
- Other options available; contact elumatec North America for details

information in this document subject to change without notice

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