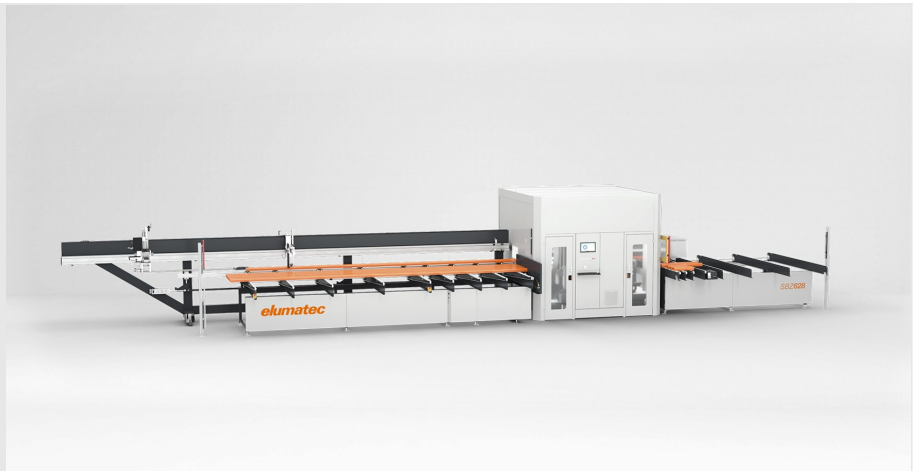




SBZ628 XXL

Through feed processing centers



The SBZ 628 series offers ultimate flexibility in both machining and length cutting of aluminium profiles for metal construction and industrial applications. Its production reliability, speed, cost-effectiveness and impressive versatility make the flexible profile machining centre the perfect all-rounder. It allows fully automatic machining of various profile types, such as for windows, doors and curtain walls, using up to eight routing units that can operate freely on the profile cross-section in coordination with innovations such as combination clamping systems, travelling clamps and pivoting grippers.

SBZ 628 XXL: pass-through system for windows, doors and curtain walls

- Up to eight spindles for routing or drilling
- Different separating cut strategies from 22.5° to 157.5° (pivoting)
- Additional saw unit from 45° to 135° (tilting)
- Combined notching
- Quick-change systems for tension rollers and clamping plates for atypical profiles
- Mode for manual insertion and clamping of non-stationary profiles.

Machine configuration

- Left loading magazine for automatic production processes
- The routing spindles can be positioned continuously over 360° on the profile bar, and the cutting angle can be adjusted continuously over 360° for machining profiles in various clamping situations
- A generously dimensioned noise abatement enclosure and the easy-access controls and maintenance elements simplify operation
- Machined profiles are placed gently onto the unloading magazine
- Versions customised to meet specific customer requirements can be designed upon request

Options



- Bar lengths up to 10,500 mm
- Expansion options for outfeed of up to 6,000 mm/8,000 mm
- "Full bar" outfeed
- Outfeed of short parts >150 mm
- Cycling short parts (in single bar mode) >50 mm >150 mm
- Round tube machining
- Additional arms in the infeed
- Label printer
- Vapour extractor
- Air conditioner, control cabinet for ambient temperature <35 °C
- Tools
- Saw blades



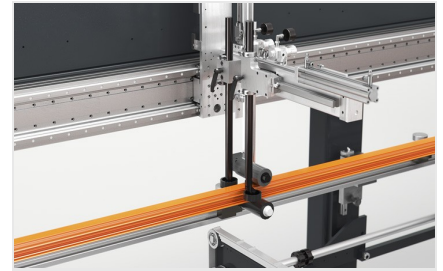
Infeed loading magazine

For the SBZ 628 XXL, five to ten profiles with a length of 1,500-7,600 mm can be loaded depending on the profile cross-section. The SBZ 628 XXL is equipped as standard with five support swing arms and eight rollers. For all models, up to nine support swing arms and lifting rollers are available. For the SBZ 628 XXL, residual pieces are processed fully automatically using the loading magazine and residual piece measurement (optional).



Gripper system

The gripper system moves even complex profile cross-sections into position for machining with precision and speed using a linear servo drive. For the SBZ 628 XXL, the motorized gripper system can be automatically adjusted both vertically and horizontally using the profile-specific parameters. The SBZ 628 XXL also offers continuously adjustable 360° rotation.



Profile clamping

The roller tensioners secure the profile reliably and fully automatically. They can be moved over the entire length of the profile and can even be adjusted during the machining cycle. This allows them to compensate for profile tolerances and to ensure that a wide range of profiles are clamped exactly as required, including those with challenging geometries.



Modulo di lavoro

Gli otto mandrini, utilizzabili in modo flessibile sulla sezione del profilo, possono lavorare in ogni combinazione angolare desiderata compresa tra 0° e 360°. Poiché il flusso massimo e le aree di scorrimento del servosasso sono dimensionati su valori elevati, è possibile lavorare in modo flessibile anche sezioni di grandi dimensioni. La lavorazione può avvenire in modalità "volante" tramite un asse X spintore o in modo fisso, con un secondo asse X, per esempio in caso di pareti di grosso spessore. In questo caso il profilo viene posizionato tramite l'asse X spintore e fissato mediante il serrapezzi a piastra del sistema di serraggio combinato. Per un risultato di fresatura perfetto, la chiave a rullino riduce le distanze di serraggio.



Profile outfeed with unloading magazine

For all models, an external gripper places the machined profiles gently onto the outfeed conveyor. The clamping system, which moves the external gripper into position during length cutting, ensures controlled transfer and a defined withdrawal of the good parts, even with very short lengths. If needed, profile guide rollers and clamping plates can be adapted quickly by means of a quick-change system to accommodate special profile shapes. In manual insertion mode, even profiles which are more complex can be machined and cut to length using customized automation.



Cutting unit

An additional saw unit expands the machine's capability and enables separating tilted cuts between 45° and 135° and other horizontal cutting strategies.





SBZ 628 XXL / THROUGH FEED PROCESSING CENTERS

SBZ 628 XXL

Max. profile cross-section (WxH)	320 x 160 / 160 x 320 mm
Min. profile cross-section (depending on gripper position)	30 x 10 mm
Blank bar length	7,600 mm
Finished part length	350-7,600 mm
Short parts (50-150 / 150-350)	Optional

Feed magazine

Shortest blank bar length	1,500 mm
Number of swing arms	5 (option for 9)
Mounting positions	10 (above 120 mm 3-5)

Infeed

Servo drive	linear
Motorized gripper adjustment	Y/Z
Gripper rotation	Standard
Residual piece measurement	Optional
Residual piece processing	fully automatic

Machining station

Axes	5
Router spindles	4 - 8 (servo-assisted)

Saw

Axes	3 + 3
Saw blades (diameter)	2 (550 mm), optional 650 + 550 mm
Sawing angles	22.5° - 157.5° (pivoting) 45° - 135° (tilting)
Notching	Standard (above and behind)

Outfeed clamping carriages

Axes	1
Cycle operation (short parts)	Optional

Outfeed conveyor

Lifting station	Yes
Number of swing arms	8
Outfeed conveyor width	4,000 mm (can be extended)