

ZS180



Automatic steel cutting machine for reinforcement bars

efficient • flexible • powerful

Fully automatic steel cutting

Series ZS180 automatic machines automatically cut the reinforcement bars to the size specified by the control system.



Sawing or punching

The precise cutting to size of the reinforcement bars can take place either by means of a universal sawing device or a silent punching mechanism. Up to 5 different cutting plates can be automatically allocated by the machine.

Manual or automatic reinforcement

The automatic cutting machine can either be used as a manually-operated work area – i.e. to cut and pre-position the steel for manual insertion – or as an automatic steel inserter as part of LEMUTH'S "unicut200" machining centre. With this convenient model, precise NC technology positions the reinforcement exactly into the plastic bar.

Continuous steel welding

Through the highly efficient integrated continuous steel welding device the model can process profile identical bars without creating any waste.

Data input through Windows surfaces

The industrial computer is configured with Windows software and Windows surfaces.

With optional operation via the network, the cutting to size can take place in the correct order in the machining centre.

ZS180 speed

A robust enhanced configuration level speed is designed for capacities with up to 200 window units.

Alternatively, a silent punching mechanism or a steel sawing device can be used. A micro spraying system optimally cools the saw.

With 8 grabbing positions in X and Y direction, as well as two contour clamping mechanisms in each sawing area, the automatic steel cutting machine operates to a large extent non-profile-specific.

Thanks to the additional support, it is possible to load off-cuts from a length of 80 cm.



Automatic steel insertion in the "unicut200" is possible with the enhanced configuration level speed.

Convenient supply of data via the network, inputs via a touch screen and remote maintenance are integrated.

ZS180 high speed

The enhanced configuration level high speed can cut up to 250 window unit profiles.

The upgradeable continuous steel welding device ensures the optimal use of material.



Integration according to user preference

It is possible to operate the automatic cutting machine as a stand-alone model or in combination with a plastic machining centre.

Enhanced configuration levels

ZS180 eco

This simple solution with saw is best suited to window manufacture of up to 100 window units.



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Technical Data

	Enhanced configuration level: ZS-eco	speed	high speed
Machining time approx.	25 s	15 s	12 s
Length of blank max.	6,000 mm	6,000 mm	6,000 mm
Length of blank min. (off-cuts) without continuous welding	2,000 mm	800 mm	800 mm
Length of blank min. (off-cuts) with continuous welding	-	-	1,500 mm
Cut section length max.	3,450 mm	3,450 mm	3,450 mm
Precision positioning of the axle	+/- 2.5 mm	< 0.1 mm	< 0.1 mm
To a large extent non-profile-specific	no	yes	yes
Number of gripping deliveries vertical/ horizontal	1/1	8/8	8/8
Supply of data via network	upgradeable	integrated	integrated
Radio network	-	possible	possible
Upgrade to max. cut section length of 4,000 mm	-	possible	possible
Automatic steel insertion in LEMUTH's plastic machining centre	-	possible	possible
Automatic continuous steel welding	-	-	possible

Model with saw

- Cooling	Jet cooling	micro spraying	micro spraying
- Cut section length min.	180 mm	80 mm	80 mm
- Sawing plate diameter	270 mm	350 mm	350 mm
- Clamping mechanism in the sawing area	1x standard	2x contour	2x contour

Model with punching mechanism

- Cut section length min.	-	180 mm	180 mm
- Automatic cutting plate changer	-	5 cutting plates	5 cutting plates

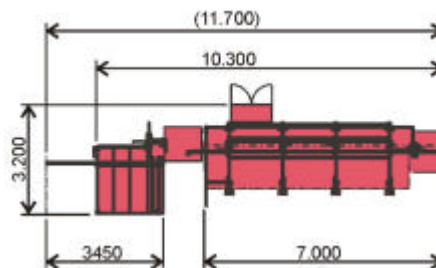
General data

Operational voltage	230/400 V – 50 Hz	230/400 V – 50 Hz	230/400 V – 50 Hz
Control voltage	24 VDC	24 VDC	24 VDC
Total connected load	1.5 kW	5.2 kW	7.5 kW
Operating pressure	6 bar	6 bar	6 bar
Air consumption	30 l/min	80 l/min	80 l/min

Enhanced configuration levels

Configuration *ZS180-eco*

Output approx. 100 window units / shift
25 s / cutting to size

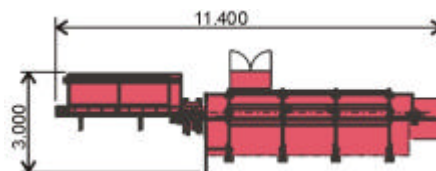


Standard model

ZS180 eco
with saw and delivery table

Configuration *ZS180-speed*

Output approx. 200 window units / shift
15 s / cutting to size



Example model

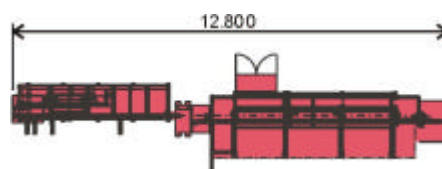
ZS180 speed
Example with delivery table

Options

- Model with saw
- Model with punching mechanism
- Automatic steel insertion

Configuration *ZS180-high speed*

Output approx. 250 window units / shift
12 s / cutting to size



Example model with

ZS180 high speed
Example with automatic steel insertion
and continuous welding

Options

- Model with saw
- Model with punching mechanism
- Automatic steel insertion
- Continuous welding