



# PLANT AND MACHINES

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## Sawing machines

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**Wassmer**  
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## Sawing machines

Sawing machines for sizing and cutting to length block, wedge and panel formats with one or more sawing units in various diameters, with swivelling and turning device.

The machines can be designed for dry or wet operation, depending on the Material.

### Extensions, options:

- automatic loading and unloading systems, as well as integration into a complete plant
- Robotics
- Quality assurance
- Measurement
- Labelling, marking
- Extraction, water treatment
- Manual or automatic adjustment

### DESIGN ACCORDING TO CUSTOMER REQUIREMENTS

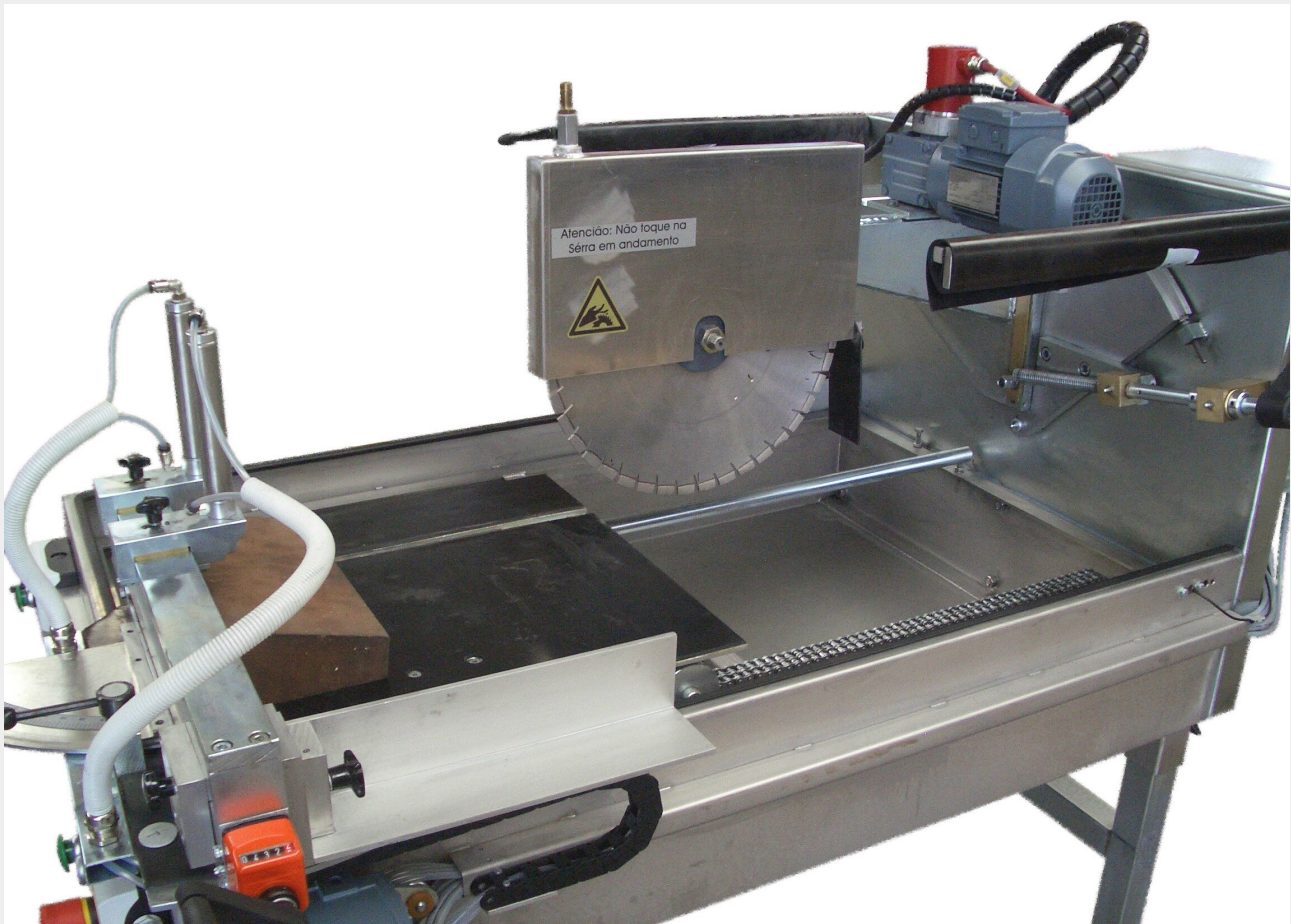
All plants and machines are designed and manufactured according to the specified requirements of the customer and the product.



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## Sawing machine STS-03 B with automatic feed

The STS-03 B consists of a stable machine stand that can be placed directly on the floor and ensures a perfect working height. The swivel arm with the saw unit is suspended on the rear wall of the machine stand. The saw blade is mounted directly on the saw motor. The stable machine design ensures a long service life, long tool life and precise cuts in the tenth of a millimetre range.

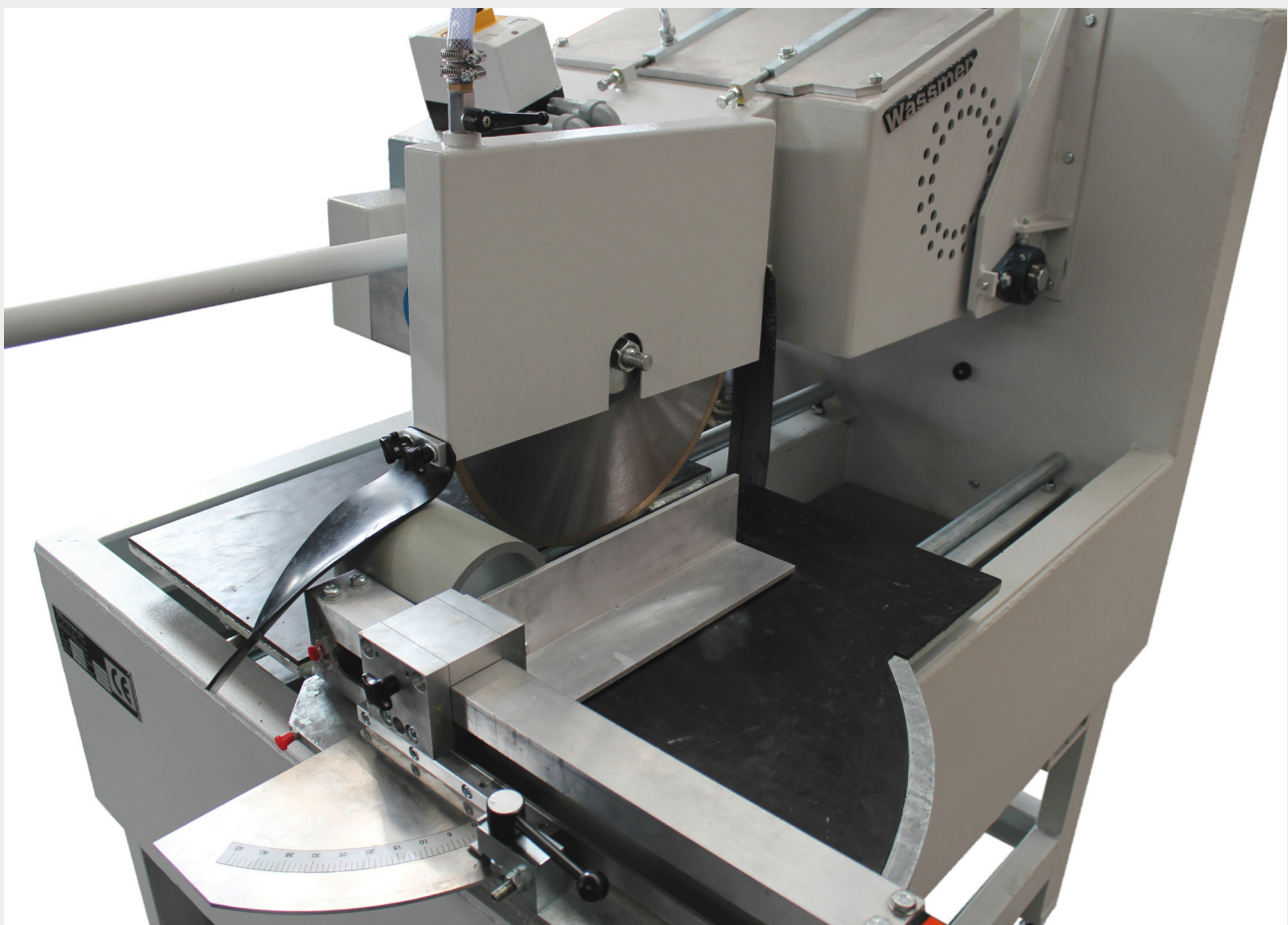
- The machine is designed for dry and or wet operation, depending on requirements
- The saw height is motorised or manually adjustable
- The work carriage is possible with manual or automatic feed
- Various mounting and clamping devices for pipes, plates, blocks, etc. optional
- Swivelling of the workpiece and the saw blade optional
- Encapsulation optional
- Machine design and operation according to customer requirements

## Cross-cut and travelling saw STS-03 C

The STS-03 C consists of a stable machine stand that can be placed directly on the floor and ensures a perfect working height. The swivel arm with the saw unit is suspended on the rear wall of the machine stand. This consists of a stable spindle bearing and a standard motor that drives the saw blade via a V-belt drive.

The stable machine design ensures a long service life, long tool life and precise cuts in the tenth of a millimetre range.

- The machine is designed for dry and or wet operation, depending on requirements
- The saw start height is adjustable
- Cross-cut and travelling cuts are possible
- Work carriage with manual or automatic feed optional
- Various mounting and clamping devices for pipes, plates, blocks, etc. optional
- Swivelling of the workpiece and the saw blade optional
- Encapsulation optional
- Machine design and operation according to customer requirements







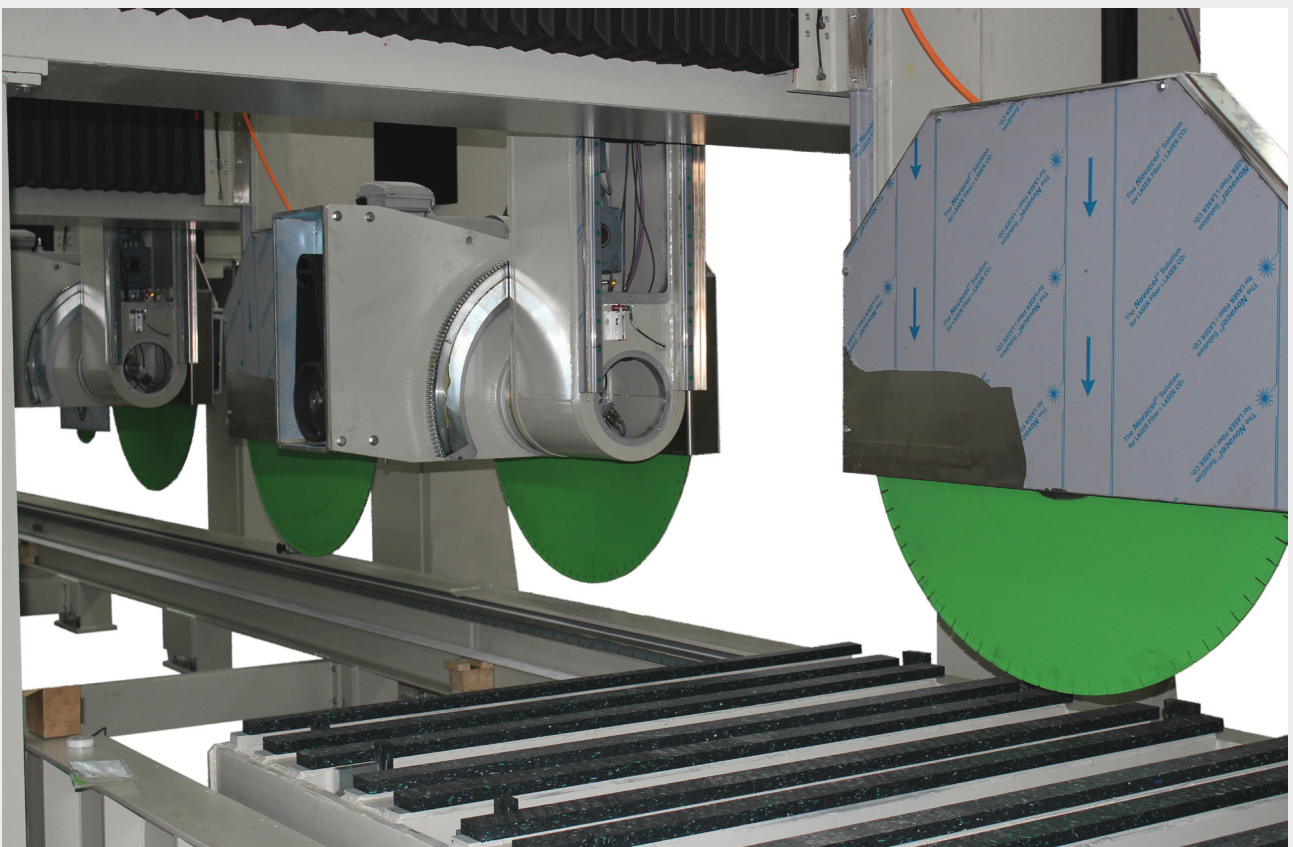
## Examples of machines

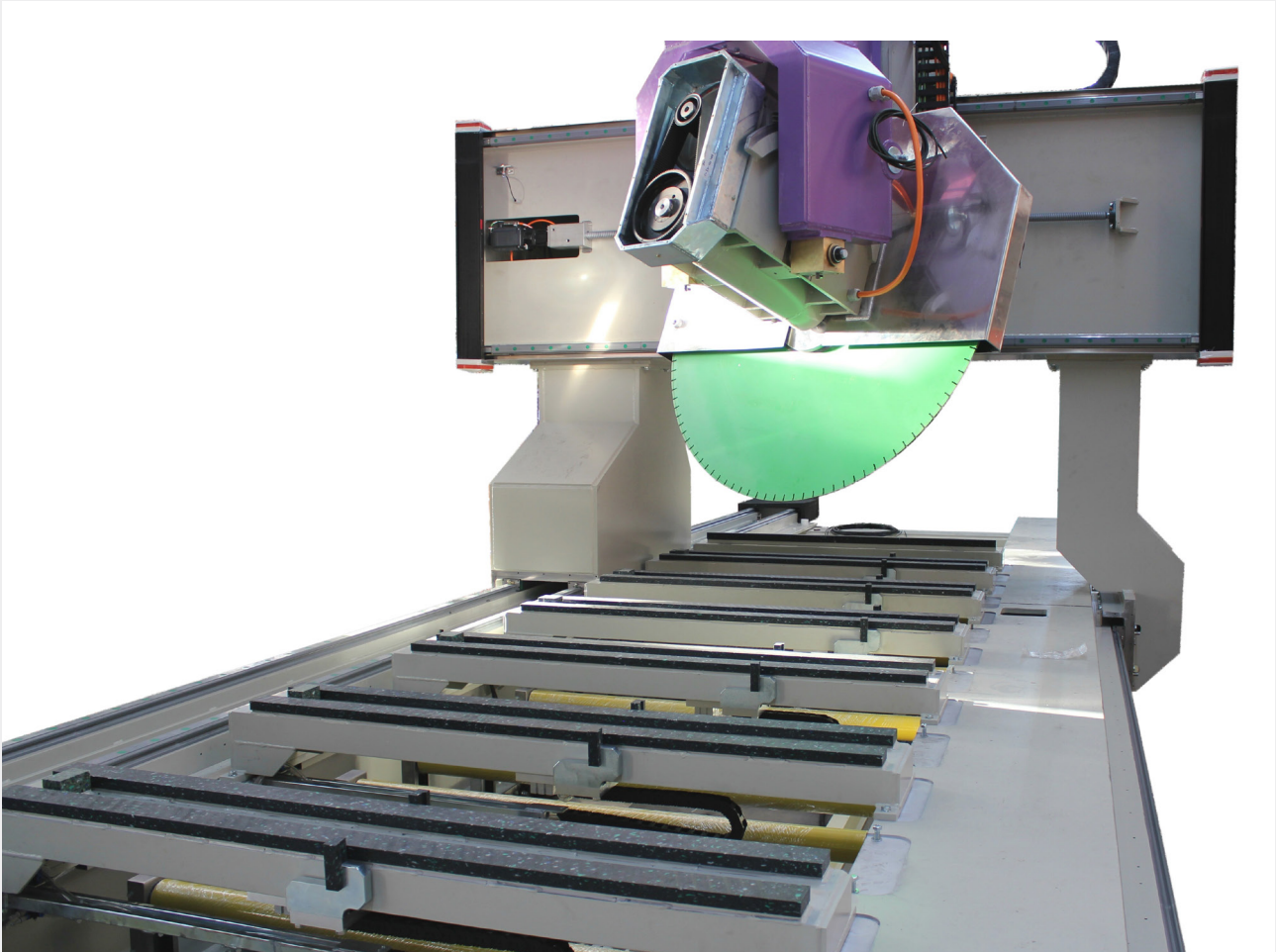


# Continuous sawing machine

This sawing unit is designed for throughfeed operation. Two lateral guides are provided for positioning the work table. The product is clamped onto the work table and positioned under the processing bridges or passed through. A total of 10 sawing units and 2 grinding units are installed. All units are automatically adjusted in height and width and can be swivelled.

- The machine is designed for dry and or wet operation, depending on requirements
- The target dimensions for the product are imported via the drawing
- The product can be cut lengthwise with the carriage feed
- The product can be precisely positioned and cut crosswise with the work table
- Work carriage with automatic feed and linear encoder for precise positioning
- Various mounting and clamping devices for pipes, plates, blocks, etc.
- Pre-measurement as an option
- Additional units as required
- Machine design and operation according to customer requirements





## Sawing machine with swivelling and rotating sawing unit

This sawing machine consists of a stable machine stand, a work table and a bridge with sawing unit. The sawing unit and the bridge are driven by ball screws and positioned automatically. The sawing unit can be rotated and swivelled automatically.

- The machine is designed for dry and or wet operation, depending on requirements
- The target dimensions for the product are imported via the drawing
- Various mounting and clamping devices for pipes, plates, blocks, etc.
- Pre-measurement as an option
- Additional units as required
- Machine design and operation according to customer requirements





**Special version:**

CNC-controlled sawing unit,  
2m saw blade, caterpillar table with  
rubber support, automatically  
adjustable clamping jaws at the side

## CNC Sawing Center STS-03/2000

**Operation & Control:**

- 5 axes in X, Y, Z direction / rotate and swivel
- Siemens 840 D, digital compact control
- Control cabinet with integrated control and PC operating unit

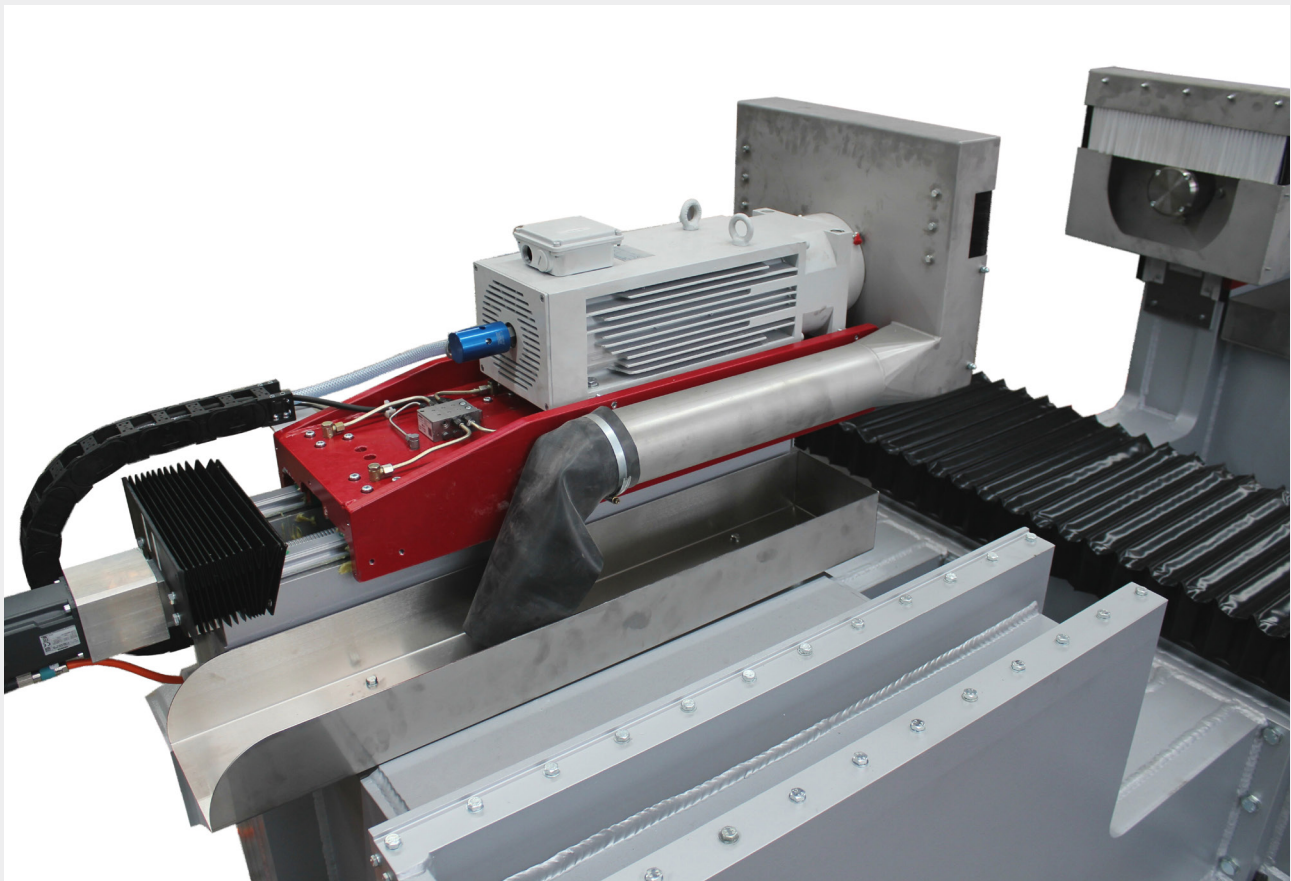
## Sawing machine DFS-SB-1200

This sawing machine is equipped with two sawing units and there are two additional free places on the machine stand for later expansion with additional units.

The parts are clamped on a work table and moved through the units and automatically cut to the appropriate size. When the work table is moved back, the two units position outwards so that there is no damage to the cutting edge.

The work table can be rotated and the machine can automatically cut 4-6 sides to size.

- The machine is designed for dry and or wet operation, depending on requirements
- Automatically rotating worktable
- Work carriage with automatic feed
- Various mounting and clamping devices for pipes, plates, blocks, basins, etc.
- Additional units on request
- Machine design and operation according to customer requirements



## Sawing machine STS-03 Laboratory

The Wassmer laboratory saw STS-03 L is equipped with a twin saw unit. It was designed to carry out two separate work steps in only one operation. After sawing to the desired length, the sample already meets the required plane parallelism for the subsequent laboratory test. Additional grinding is not necessary. Sawing on both sides and sanding of the two surfaces is carried out in only one work step.

The drill core sample is placed in the clamping device and pneumatically clamped at the push of a button. After starting the automatic feed, the drill core is worked to the exact length. The sawing unit automatically returns to the starting position as soon as the core sample has been cut. Finally, the clamping device opens automatically and the finished sample can be removed.

- Automatic clamping device
- Automatic sawing process
- Two cuts in one operation
- continuously variable control of the automatic feed
- Adjustable start and end point with automatic rewind
- Parallelism of the processed sample for the subsequent laboratory tests guaranteed







## Saw shaft for multiple cut

This saw shaft is used for multiple cuts and can be designed for different widths and heights. The drive power is adjusted according to the material. This console can be built into an existing line or designed as a complete system or machine with feed unit. This version has been integrated into an existing panel line and consists of the welded console with a swivelling spindle support and the saw shaft with drive housing, motor and gearbox. The shaft can be equipped with different saw bushes with different numbers of blades and different distances.

## Sawing machine DFS-04-RS-KW

This sawing unit has been specially designed for very thin-walled and delicate parts.

The parts are placed in a clamping device adapted to the contour of the respective parts and clamped with adjustable force.

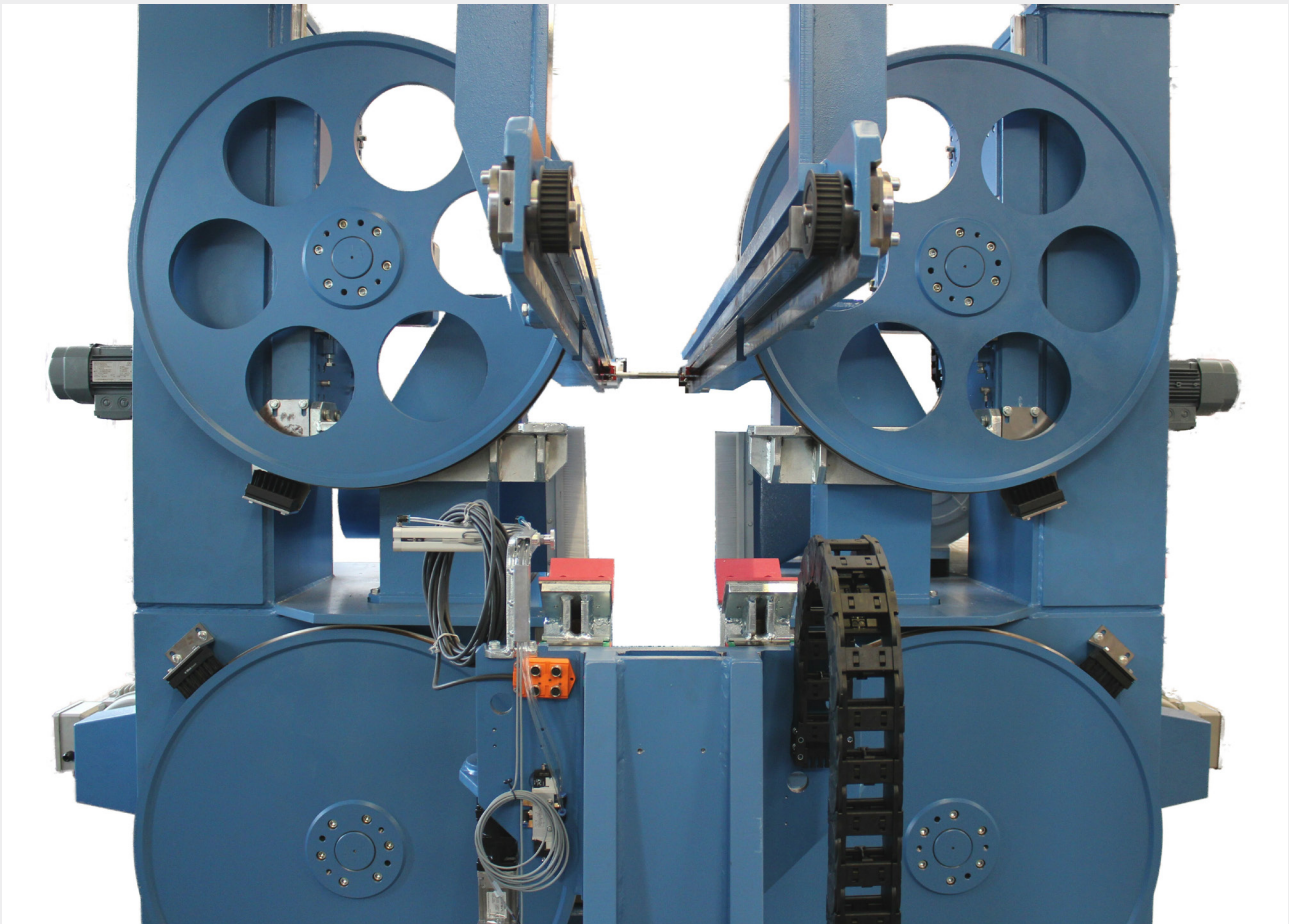
In reversing mode, the part is sawn to exact length on both sides.

By using special spindle bearings and precise guides, the edges remain almost free of tear-out.

During the retraction of the sawing units, the perforation is cleaned by means of a blower and suction.

The system is loaded and unloaded manually. A housing with automatic sliding door protects the operator from dust, noise and injuries.





## Duo band saw with feed unit

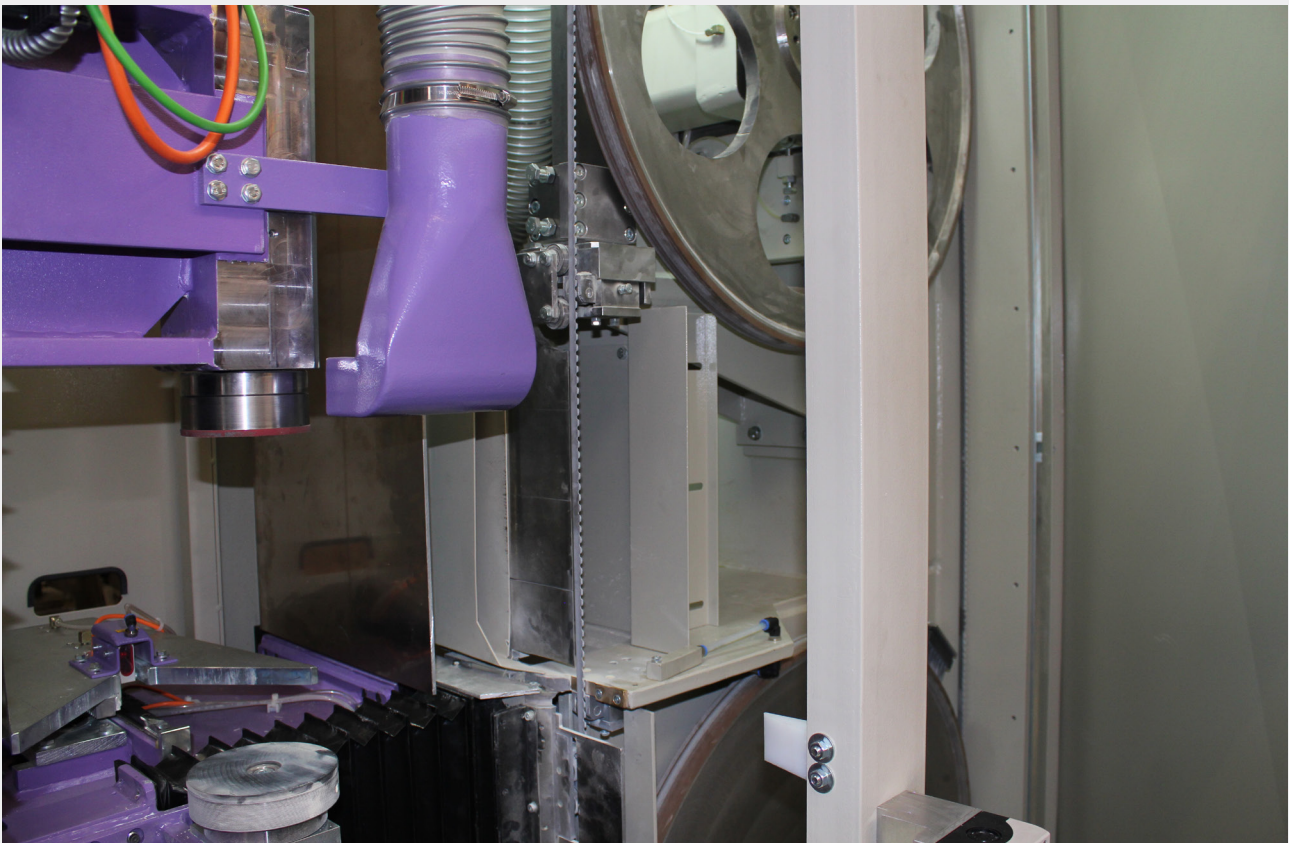
This duo band saw can be designed with a throughfeed transport system or with a feed clamping device. The bandsaws are automatically centrically adjusted on a machine bed. Various designs are possible as stand-alone machines. Depending on the requirements, the machine is supplied with a transport system, work table, rotary table or sliding carriage.



## Band saw for contour sawing

The band saw is installed with a turntable and the corresponding clamping device in a dust protection cabin. Parts can be clamped on the turntable and then sawn to contour by the band saw.

- Single sided sawing with a saw blade
- Suitable for light ceramics
- Driven rotary table with controlled Y-axis
- Sawing tolerance depending on material
- Dry or wet processing
- Feed via ball screw and servo drive
- Infinitely variable feed
- Speed infinitely variable
- Protection device
- Control system SPS





## Overview of info material:

- Single sided grinding machines
- Two-sided and three-sided grinding machines
- CNC-controlled machines
- **Sawing machines**
- Drilling machines
- Complete refractory systems, technical ceramics
- Complete systems for graphite machining
- Plants for building materials and ceramics
- Lamination machines

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