



Product information

CAF 310

Automatic side grinding machine for band, gang and circular saw blades

The idea.

Top grinding quality for the high standards of the sawmill.

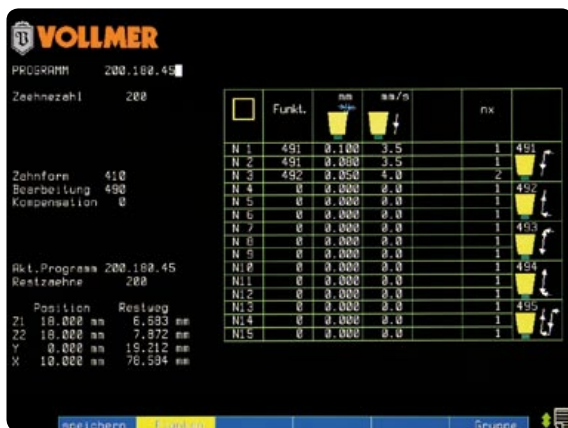
Yield, quality and availability are the key criteria in any sawmill. To help you meet these rigorous standards, we put your tools centre-stage. Our grinding machine CAF 310 gives you maximum grinding accuracy for your band, gang and circular saw blades, and a top-quality finish for your sawn timber.

The machine can be optimally adapted to your needs thanks to four CNC-axes and a choice of feed systems. Four integrated grinding programs including oscillating grinding ensure the best possible cutting quality, from thin-cut saws to vario-toothing.

Operation.

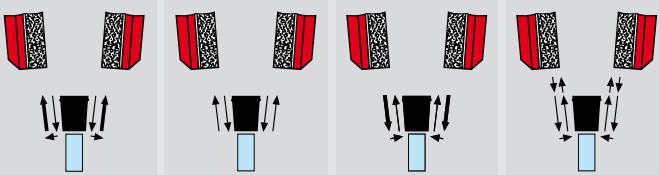
Simple, reliable and efficient thanks to the VOLLMER menu system.

VOLLMER's operating philosophy means that the individual programs are accessed directly from the control desk. That means short programming times, rapid familiarisation and flexible deployment of operating personnel at short notice.



Input mask for oscillation program.

Four integrated grinding programs:



Downward grinding, lift-off, rapid return

Downward grinding, no lift-off, return

Downward grinding, with infeed and return

Oscillation grinding with free choice of number of infeeds and strokes



Standard feed system (push feed)



Fast-cycle feed system. Fast-cycle feed for narrow band saws, e.g. mini gang saw production (shortens the production time).

Machine structure.

Extra robust and strong.

The grinding machine CA 310 is especially notable for its robust, sturdy construction. The grinding action ensures perfectly even surfaces in the cutting and feed direction, and the lateral clearance angles are preserved despite repeated resharpening.

The optional coolant filtration unit keeps the cooling system cleaner and improves its efficiency. The CAF 310 can also be optionally equipped with an oil coolant system, which makes for easier maintenance and significantly extends the lifetime of the machine.

The extreme versatility of the CAF 310 is demonstrated by its ability to machine narrow saw blades right through to 420 mm wide band saw blades, as well as thin-cut, gang and circular saw blades. Different band saw lengths can be accurately machined using a central clamping device or band saw stands with or without auxiliary feed.



Grinding the tooth sides of band saw blades.



Machining of circular saw blades with outer diameters from 200 mm to 600 mm.

Technical data at a glance:

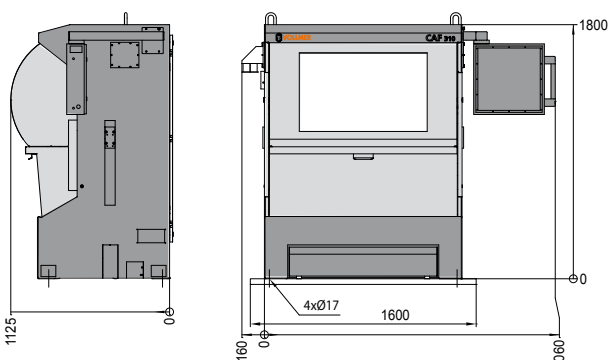
- Band saw blades:
 - Blade length from 6 m
 - Blade width from 60 to 420 mm
(Option from 9 mm)
 - Blade thickness from 0.6 to 3.0 mm
 - Tooth pitch from 6 to 120 mm
(Option from 4.2 to 120 mm)
 - Radial clearance angle up to 6°
 - Tangential clearance angle up to 6°
- Circular saw blades:
 - Outer diameter from 200 to 600 mm
 - Blade thickness from 0,6 to 3 mm
- Gang saw blades
 - Blade with from 80 to 200 mm
- Coolant pump supply 70 l/min
- Coolant container capacity 120 l
- Grinding wheel diameter 125, 100, 75 mm
- Working speed up to 25 teeth/min*
- Connected load 4,6 kVA
- Weight approx. 1.250 kg

* According to tooth shape, tooth pitch and feed system.

The highlights:

- Four CNC axes.
- VOLLMER PMC multiprocessor control.
- Control panel with colour display and clear-text user prompting.
- Four grinding programs as standard, including oscillation grinding.
- Vario-toothing adjustment
- Adjustment of grinding wheel peripheral speed with frequency converter
- High grinding accuracy and surface quality using wet grinding technique (emulsion and oil cooling) with CBN diamond grinding wheels.
- Exactly level surfaces thanks to grinding action, even after repeated resharping.
- Also highly suitable for grinding thin-cutting and mini gang saw blades.
- High economic efficiency.
- Lower servicing requirement.
- Allows band, gang and circular saw blade machining.
- Two feed systems.
- Oil coolant optionally available.

Abmessungen



We reserve the right to make design modifications in the interests of technical improvement.

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