



**Product information**

**CA 300**

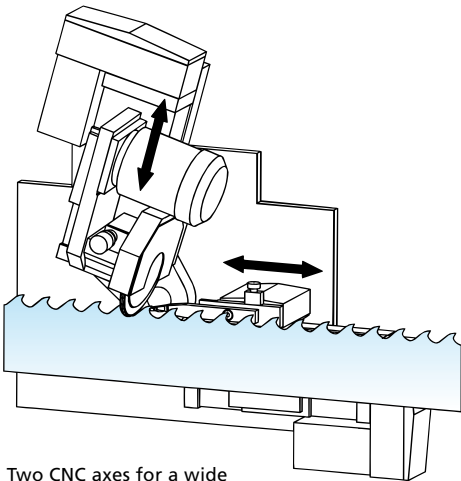
Grinding machine for automatic  
profile machining of band saw blades

# CA 300

## Effectivity at the sawmill is determined in the sharpening shop

The grinding quality of band saw blades has a major influence on the economic utilisation of the saw. Not just the sharpness of the tooth tip but also the clean grinding of the entire tooth profile determines the quality of tool care and hence the service life of the band saw.

The robust CA 300 for profile machining of band saw blades is specially designed for day-to-day, multi-shift use in sawmills, grinding shops and tool production in order to meet the high standards demanded of modern tools. The CA 300 has the same functions as the CA 200, but is designed for larger band saw blades with blade widths of up to 420 mm.



Two CNC axes for a wide variety of grinding programs

## Features



Wet grinding technique



Automatic dressing of corundum grinding wheel (optionally available)

## CNC-controlled for greater flexibility

The grinding machine is equipped with 2 CNC axes (see diagram ...) in order to execute a wide range of grinding programs to top quality standards. The interaction of these two axes allows the user to create predetermined or indeed special tooth shapes, and to regrind them again as and when required.

The machine comes ready equipped with 30 standard tooth shapes, with further tooth shape packages optionally available. Thanks to CNC technology, it is possible to ensure accurate profile grinding of vario-toothed band saw blades with different tooth pitches. In addition, there are programs for winter tooth shapes, or for rapid bypassing of the tooth gullet in newly stellite saw blades. The large grinding wheel (up to 300 mm in diameter) in corundum or CBN allows fast machining coupled with excellent grinding quality.



Synchronously driven auxiliary drive to assist band saw blade feed (optionally available)



Loading bracket to simplify the insertion of big saw blades

### User-friendliness a high priority

After programming and start-up, the machine operates autonomously. The operating personnel no longer need to intervene, thus freeing them up for other tasks. The machine, together with the VOLLMER concept, meets high standards in terms of industrial safety and ergonomics, thus making a significant contribution to health and safety in the workplace.

The grinding machine has a robust, sturdy design, allowing band saw blades with widths of up to 420 mm to be machined in a short space of time and with an excellent grinding finish. The machine is available in both left-hand and right-hand versions.

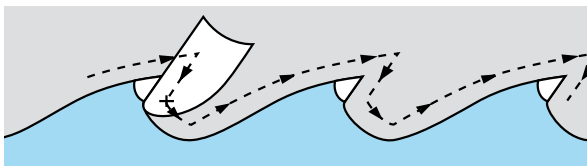


Quick and easy programming and recall of the individual grinding programs at the control panel with LCD display. The operator is guided by clear-text prompts and is also supplied with information on possible error sources. A new saw blade can be programmed while the previous one is still undergoing machining.

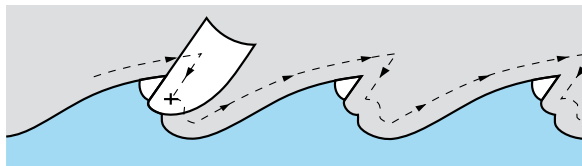


CA 300 with loading bracket and central driver vertical adjustment of trestles

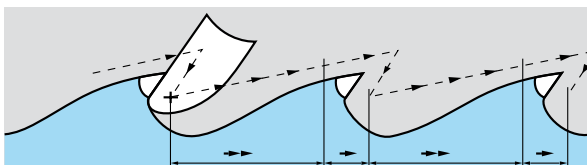
### Some examples of possible tooth shapes



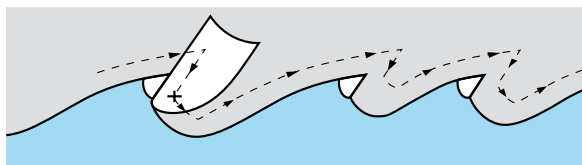
Basic shape



With program for winter tooth shape



With program for fast bypassing of tooth gullet for newly stellite saw blades



With program for precision profile grinding of variable pitch saw blades

## CA 300

### The main specifications at a glance:

• Blade width	100 to 420 mm
Blade length	from 8.5 m
Blade thickness	to 2.8 mm
Tooth pitch	20 to 120 mm
Tooth height	to 40 mm
Hook angle	to 40°
• Grinding wheels	
Outside diameter	300 mm
Peripheral speed	
- Corundum grinding wheels	35, 45 m/s constant
- CBN grinding wheels	63 m/s constant
• Working speed	5 to 30 teeth/min
• Connected load	approx. 5.4 kVA/4.8 kW
• Weight	approx. 1600 kg

### Highlights:

- CNC-controlled profile grinding machine for band saw blades up to 420 mm thick.
- Two CNC axes control tooth feed and grinding stroke, eliminating the need for cams.
- Wide range of grinding programs and their variants such as vario-toothing, winter toothing and tooth gullet skipping for newly stellite saw blades.
- Simple adjustment and tooth shape changeover from control panel.
- Wet grinding with full enclosure and extraction system to meet increasingly rigorous standards on safety, noise and emission protection, helping to create safer, pleasant working conditions.
- Outstanding grinding finish using either CBN or corundum grinding wheels.
- Automatic dressing of corundum grinding wheels ensures precision profile grinding.
- Only two grinding passes required for newly stellite saw blades; only one pass for regrinding.
- Simpler insertion of saw blade with the aid of a specially designed bracket.
- Facility for in-line combination with the CBF 300 or CBF 310 side grinder for even shorter overall grinding times.

### Dimensions

