VOLLMER

Product Information

CX 100

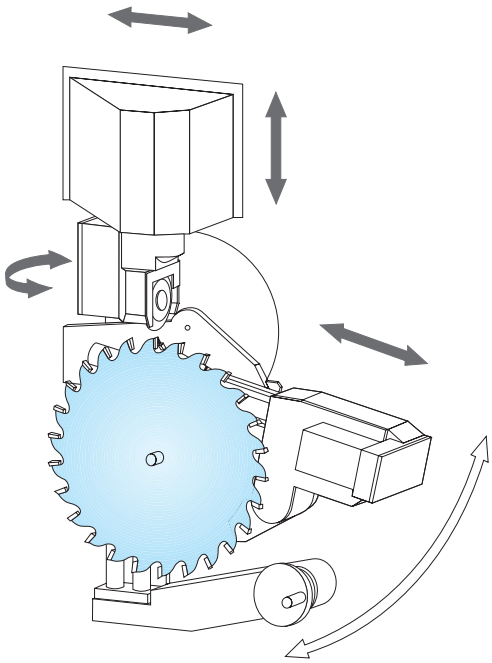
Automatic grinding machine for the economical processing of top, face and hollow face on carbide tipped circular sawblades up to 500 mm Ø

CX 100

Compact, fast and precise: CX 100

Fully CNC-controlled, small construction, faster than other units of comparable quality. Four CNC axes control bevel grinding, the grinding wheel feed, the grinding stroke and the tooth feed. Result: shorter grinding times and higher precision.

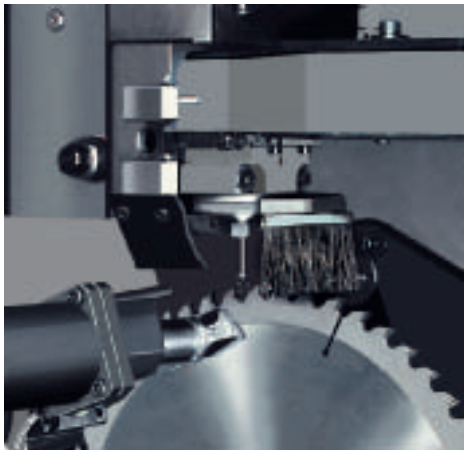
The VOLLMER PMC-multiprocessor control provides the ideal conditions for most application requirements. A minimal amount of data needs to be entered at the control panel providing exceptional ease of operation. The operator is assisted by a menu on the LCD color display, which is graphics supported. The tooth pitch no longer needs to be adjusted. The computer system calculates the tooth pitch after the saw's diameter and number of teeth have been entered. The blade thickness value is not required.



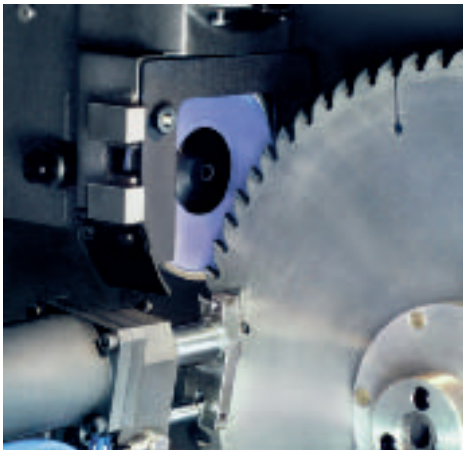
Four controlled axes provide the basis for a variety of applications.

Convincing details

Stable blade clamping eases changing the saw blade



Exact symmetrical hollow tooth grinding can be achieved with an additional grinding unit

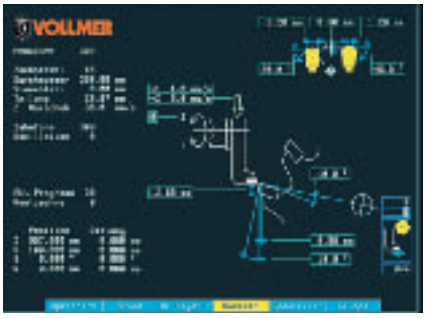


Relief grinding of the blade's structure in one cycle

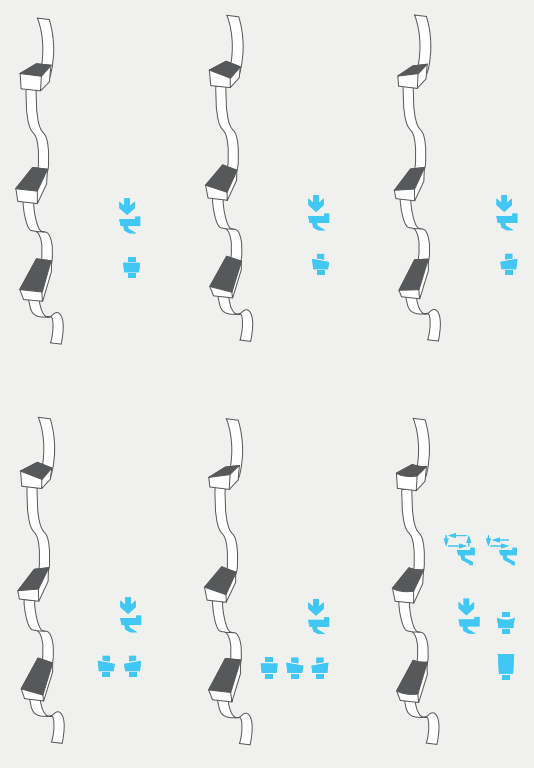
Intelligent controls, ease of operation

The CX 100 ist proving that intelligent control equals ease of operation. The software was developed so that only minimal data entry is required. Non-productive time is also reduced as a new program can be entered while the current program is running. Values from saw blade drawings can be entered quickly. All known tooth geometries for face and top grinding can be accessed via menus.

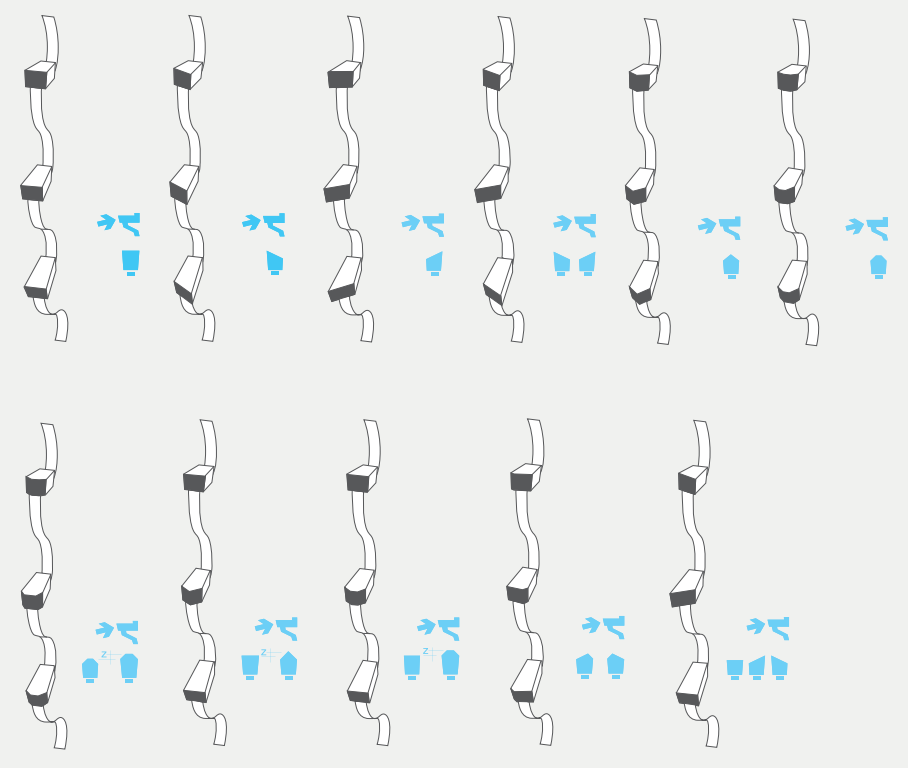
Hard- and software programs for woodworking tooth geometries are included as standard. The range of possible uses can be expanded greatly with additonal hard- and software packages depending on the task at hand. For example, with programs for metal machining, for multiple surface machining on tooth tops or for oscillation grinding. Even saw blades with differing tooth pitches or group toothing configurations can be ground as standard. An optional pneumatically actuated feed pawl offers a range of other benefits for saw blades with close tooth pitches, with axial angles or hollow teeth, or when chamfering HSS saw blades.



Several different tooth shapes in only one cycle



Woodworking face grinding
(integrated in standard)



Woodworking top grinding
(integrated in standard)

CX 100

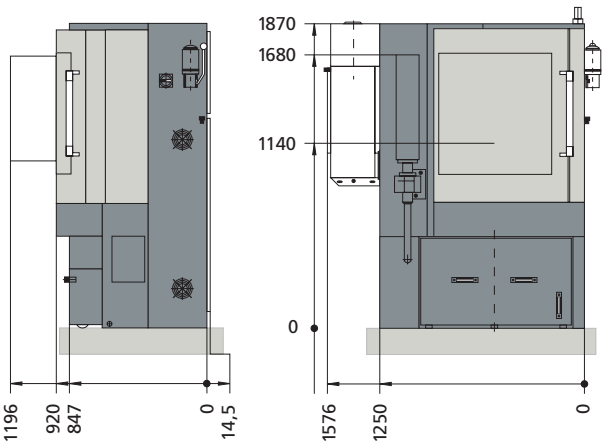
The specifications at a glance:

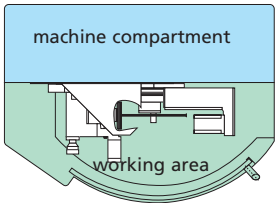
• Circular saws	
Outside diameter	80 to 500 mm
Bore diameter	from 10 mm
Blade thickness	to 5 mm
Tooth pitch	7 to 100 mm
Grinding path	to 24 mm
Hook angle	-30° to +50°
Clearance angle	6° to 40°
• Bevel grinding	
Bevel grinding on tooth top	to 45°
Bevel grinding on tooth face	to 30°
Tooth height difference	as required
• Grinding wheel	
Outside diameter	125 mm
Bore diameter	32 mm
Peripheral speed	26 m/s
Grinding speed	0,5 to 20 mm/s
Working speed	to 18 teeth/min
• Coolant container capacity approx.	85 l
• Total connected load	approx. 3 kVA/2,4 kW
• Weight	approx. 950 kg
• Compressed air connection	approx. 6 bar

The most important advantages:

- Grinding every tooth shape on the face or top in one cycle.
- Exceptionally short grinding times, reduced nonproductive time, excellent grinding results.
- Four CNC axes control bevel grinding, the grinding wheel feed, the grinding stroke and tooth feed.
- For complicated tooth geometries with different bevel grinding angles and tooth heights.
- Outstanding results are guaranteed both with water-based coolant and oil.
- Minimal data entered centrally at the control panel.
- Operator easily guided through program via LCD color display, supported by graphics
- Tooth pitch and blade thickness setting no longer required.
- Working area is separated from machine compartment by a partition.
- State of the art grinding unit concept for high demands.

Dimensions





The machine compartment is separated from the working area by a protective cover, thereby protecting the motor's mechanical parts against dirt and grime.

We reserve the right to make any further construction improvements.

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