VOLLMER

Product information

CM 300

Machine for grinding complete geometries of TCT circular saw blades

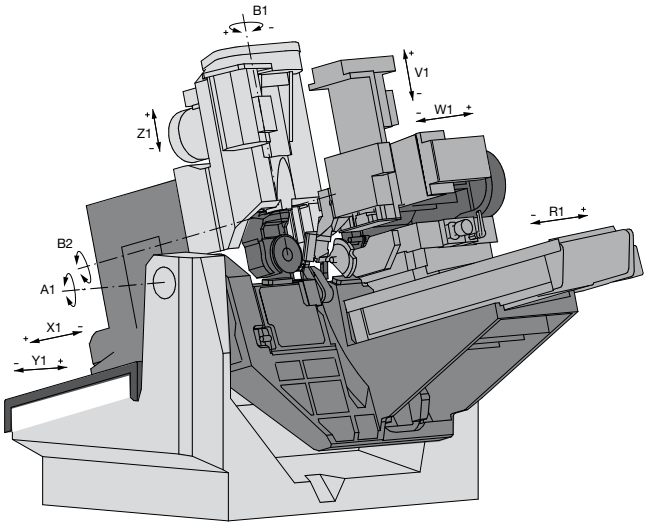
CM 300

The concept.

If we say very precise, we mean exact.

Those who want to produce exact metal cutting saw blades have not only to observe basic parameters such as accuracy of inner saw blade bore, or to apply the appropriate clamping system, but also have to achieve an utmost stable processing and high level of rigidity of the grinding machine.

We were able to meet these demands with the unique machine concept of the CM 300. We obtain maximum accuracy for the top and face grinding of metal cutting saw blades due to the fixed grinding aggregate and the very massive construction. The result: exact surface quality that pays off – cut for cut.



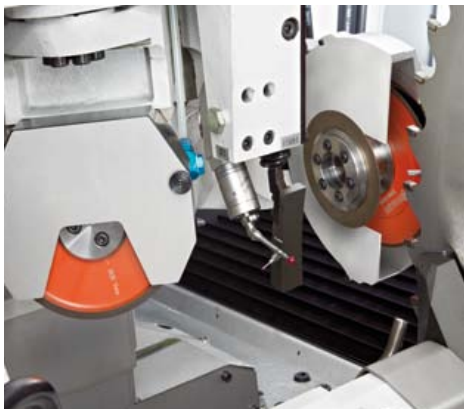
Tooth top machining.

Grinding of negative face surface.

Operating, handling and equipment.

Fast and precise.

The well-known VOLLMER user interface stands for maximum operating comfort, a fast machine operator learning process, and efficient handling of the machine. A great variety of available tooth shapes offers a high level of flexibility for the production of metal cutting circular saw blades. The comfortable programming of the machine reduces also the set-up times.



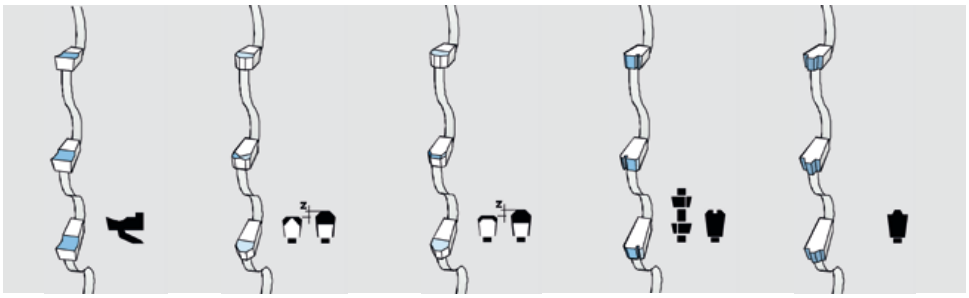
2 main spindles with up to 3 grinding wheels and the centrally situated measuring system.

Grinding of chip breaker groove.

The measuring probe, which is standard within the machine, takes all relevant parameters such as cutting width, width of saw blade body and hook angle.

Grinding of saw blades with chip guide notch.

Exemplary tooth shapes for chip and clearance surfaces.



All common tooth geometries for wood and metal cutting are integrated in the standard machine.

CM 300

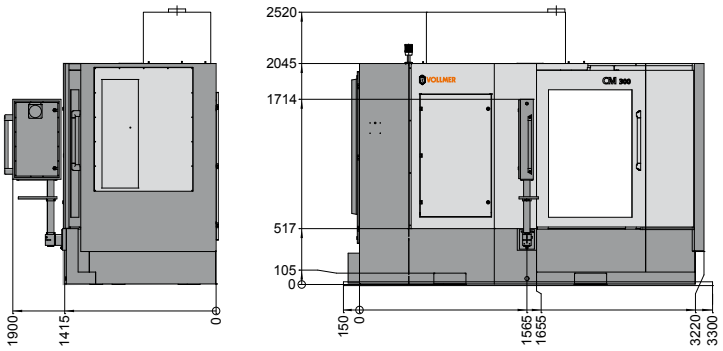
Technical data at a glance:

• Circular saw blades	
Outer diameter	200 to 1440 mm
Bore diameter	16 to 200 mm
Blade thickness	up to 15 mm
Tooth pitch	6 to 180 mm
• Grinding path	
Cutting edge length	up to 25 mm
• Grinding angles	
Hook angle	-35° to +20°
Clearance angle	0° to 25°
Bevel grinding of tooth top	up to 45°
Bevel grinding of tooth face	up to 30°
Bevel grinding of negative tooth face	up to 30°
• Tooth height difference	any amount
• Grinding wheels	
- Spindle 1	
Outer diameter	125 mm
Bore diameter	32 mm
Peripheral speed	1.600 to 5.500 RPM
- Spindle 2	
Outer diameter	75 to 200 mm
Bore diameter	32 mm
Peripheral speed	1.600 to 5.500 RPM
- Chip breaker	
Bore diameter	50 mm
• Coolant tank capacity	approx. 220 l
• Total connected load	approx. 8,5 kVA
• Compressed air connection	6 to 10 bar
• Weight	approx. 5050 kg

The highlights:

- Machine for metal cutting circular saw blades that meet the highest demands with regard to precision and cutting edge quality.
- 2 main grinding spindles.
- The grinding aggregate can‘t be swiveled, thus high level of rigidity and accuracy.
- The grinding wheels for machining chip breakers, clearance surfaces and chip surfaces are mounted onto powerful main spindles.
- Measuring of the complete tooth geometry.
- The tool management facilitates the flexible use of the grinding wheel spindles.
- Excellent grinding quality with either oil or emulsion as cooling agent.
- Operation control based on Windows XP.
- 9 CNC axes.

Dimensions:



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

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