



Cstar

CNC-controlled sharpening machine
for CBN-abrasive grinding

- Sharpening, re-toothing and chamfering of metal circular saw blades
- Grinding of chip breaker grooves with additional equipment
- Ideal for the grinding of friction saw blades
- Ideal for the grinding of solid carbide saw blades



Cstar

The automatic grinding machine Cstar can be used for cutting off defective teeth and grinding of saw blades with vari pitch toothing.

Besides HSS- and segmental saw blades, the Cstar will also grind friction saw blades. The saw blade data will be entered into the control panel. The computer calculates immediately the tooth pitch and the tooth height and suggests the DIN tooth height difference for tooth shape „C“. The computer also automatically calculates the required grinding wheel thickness and informs the operator in case a grinding wheel change will be necessary.

The hook- and clearance angle, the amount of the stock removal and the grinding speed are preselected on the screen: that's all, the machine is ready to start grinding! The chamfering is semi automatic and the machine is available for water emulsion and oil cooling.

Advantages at a glance

- Absolut indexing precision and a perfect tooth shape through modern CNC-control system
- CBN-abrasive grinding with effective cooling guarantees high stock removal rates coupled with optimum surface quality
- Automatic path offset: different pitches can be machined using the same grinding wheel thickness, which means a very small number of grinding wheels needs to be stocked
- Blade clamp at the point of the grinding enables the grinding of saw blades with Ø 140 – 760 mm by use of the same clamping flange
- Fast and easy programming using the Loroch Easy-Touch system
- 240 litres coolant tank in steel and high pressure cooling with 6 bar coolant pressure



Special program: solid carbide tooth



Special program: hot saw / peg tooth



Grinding chip breaker grooves

Technical Data

Working range	
Saw blade diameter	Ø (20) 140 – 760 mm
Tooth pitch	1 – 25 mm
Number of teeth	2 – 998
Saw blade thickness	up to 8 mm
Grinding wheels	
CBN- /Diamond-grinding wheel	Ø 200 mm x 32 mm
Cooling	
Coolant pressure	approx. 6 bar
Coolant type	Water emulsion / Oil
Electrical installation	
Power input grinding motor / Power input machine	3 kW / approx. 7.8 kW
Weight	
	approx. 1025 kg
Dimensions (W x D x H)	
door closed / door opened	985 x 1750 x 2015 mm / 1568 x 1750 x 2015 mm

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