



Product information

CHP eco

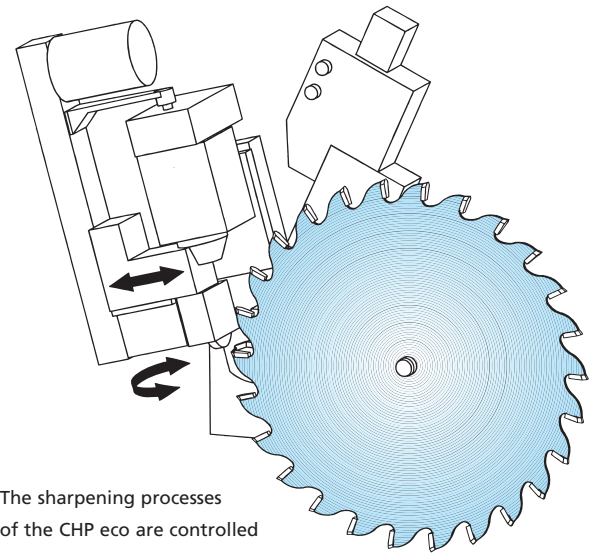
Sharpening machine for machining all tooth geometries of TCT circular saw blades

CHP eco

The CHP eco: for guaranteed success

CHP sharpening machines set world-wide standards in technology. Because of their extra stability and guaranteed maximum precision. And because of their great versatility, easy operation and short grinding times. The CHP eco sets new standards in terms of price-performance ratio.

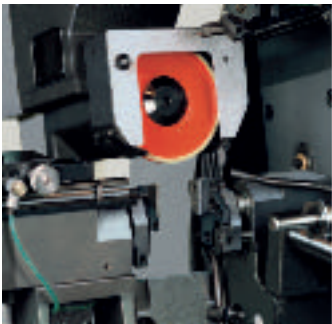
Two CNC axes control the bevel grinding action and grinding wheel infeed. This allows any tooth geometry to be ground at the face or top in a single revolution – with different teeth in cluster arrangements and with different chamfer and bevel angles. And for saw blades used to cut wood, plastic, steel and non-ferrous metals.



The sharpening processes of the CHP eco are controlled by two axes

A wide variety of applications

The CHP eco is an all-rounder which can be used for all kinds of sharpening tasks, and may well save you investing in costly special machines – a further contribution to increased economic efficiency in the sharpening shop.



The sturdy blade clamp opens wide to the front for an easy saw blade change



Sharpening the tooth top



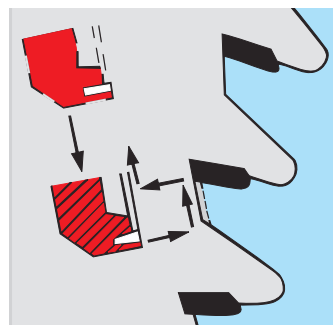
Sharpening the tooth face



Hollow face grinding device as optional extra



All types of hogs can be re-sharpened highly economically



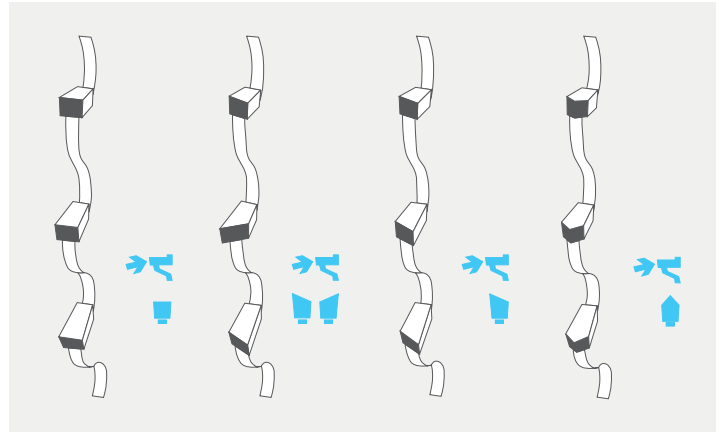
Relief-grinding of the blade body in one revolution



The control desk is a convenient centre for programming and retrieving all the main functions. The LCD display with clear-text prompting keeps you supplied with all kinds of information such as the operating status or the tool life of the grinding wheels. A diagnostic program provides guidance on how to deal speedily with possible faults.

All tooth shapes machined with maximum precision

The examples show some of the tooth shapes which can be machined in a single revolution on the CHP eco. Even new and future tooth geometries can be machined thanks to the individual selection of all bevel-grinding angles. Programs for grinding newly soldered carbide teeth and skipping individual missing teeth are also available as standard.



Re-sharpening of metal-cutting saw blades

Even the often complex tooth geometries of metal-cutting saw blades can be ground at the top or face in a single revolution with the CHP eco.



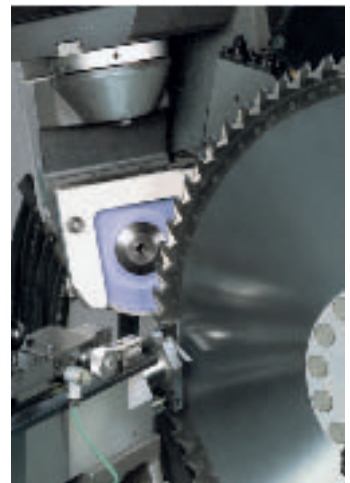
For tooth shapes with negative hook angles of up to 30°



Grinding of chip breaker grooves in carbide-tipped circular saw blades



Grinding of chip breaker grooves in HSS saw blades with small tooth pitches from 4 mm



HSS saw blades being precision-ground on the top with a chamfer on the roughing and finishing teeth

CHP eco

Technical data at a glance:

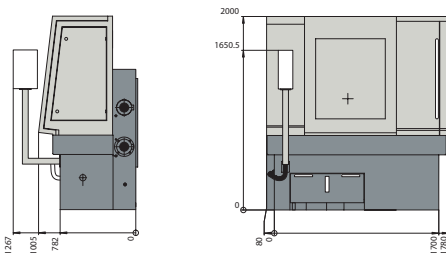
• Circular saw blades	
Outer diameter	80 to 810 mm
Bore diameter	10 to 220 mm
Blade thickness	up to 8 mm
Tooth pitch	6 to 120 mm
Grinding path	up to 20 mm
Hook angle	-30° to +50°
Clearance angle	5° to 45°
Relief-grinding	up to 30 mm
• Bevel grinding	
Tooth top	up to 45°
Tooth face	up to 15°
Tooth height difference	up to 3 mm
• Grinding wheels	
Outer diameter	up to 125 mm
Bore diameter	32 mm
Grinding speed	0.5 to 15 mm/s
Working speed	up to 20 teeth/min
Peripheral speed	27 m/s
• Coolant pump delivery rate	50 l/min
Coolant tank capacity	approx. 85 l
Connected load	approx. 5.0 kVA/4.0 kW
• Weight (incl. covering)	approx. 1.110 kg

Advantages of the CHP eco:

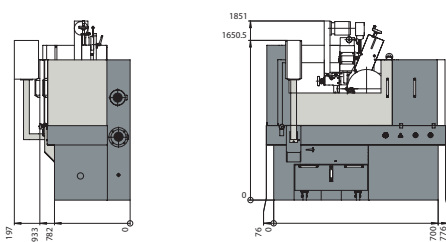
- Short grinding times, reduced ancillary times, excellent grinding results.
- Easy to operate (all main functions set and activated at control desk).
- Comprehensive software integrated.
- Any tooth shape can be ground at the face or top in a single revolution.
- Easy loading and unloading of machine.
- Universal application, including grinding of cutting tools and different tooth pitches plus hollow face grinding or relief-grinding of the blade body.

Dimensions

With full enclosure



Without full enclosure



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



The CHC eco is also available with a splash guard instead of full enclosure for some markets. The technical parameters are the same as for the fully enclosed version.

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