

# PowerStar 850



The PowerStar 850 offers exceptional sharpening, re-toothed, and profiling of circular saw blades with CBN-abrasive grinding. It exceeds even the highest expectations through its versatility and ease of use, as well as its rigidity, to achieve exceptional grinding quality.

The easy-to-use touch screen uses simple symbols and straightforward operations so all settings are available at a glance and changes can be made quickly. Switching between sharpening, re-toothed, and profiling operations is as easy as a push of a button.

It indicates the optimal grinding speed and rake and clearance angles for all standard teeth are readily available. The manual grinding wheel insertion is easy and safe for the operator and, in most cases, sharpening is done in just one saw blade revolution.

## Benefits

- Only one flange required for saw blades ranging from 130 – 850 (920) mm
- Large saw blade diameter range from 40 – 850 (920) mm
- Grinding programs can be entered in advance while machine is in operation
- Vario-Tooth Shapes
- Precision spacing for tooth pitch accuracy
- Semi-automatic profiling
- Adjustable profiling angle
- Low space requirement
- Advantageous price/performance ratio
- Reduced vibrations for extend grinding wheel life span

After sharpening saw blades or new-toothed saw blades, the profiling operation uses the grinding head and the cooling nozzles to automatically move the blade to the correct profiling position. With the help of the cursor keys or an electronic hand wheel, the tooth is put in position to slightly touch the rotating grinding wheel. Close the door and press START – the machine does the rest!

The PowerStar 850 allows adjustment of the profile angle in 5° increments from 0° to 45° (standard value). A saw blade support at the point of grinding will ensure the profiles are ground symmetrically.

PowerStar 850 Specifications	
<b>Range of operation</b>	
Saw blade grinding	Ø (40) 130 - 850 (920) mm
Saw blade chamfering	Ø (105) 145 - 850 (920) mm
Tooth pitch	1 - 40 mm
Tooth height	Max. 17 mm
Number of teeth	2 - 998
Saw blade thickness	Up to 8 mm
<b>Grinding wheels</b>	
CBN or DIA	Ø 200 mm (14F1)
Bore size	Ø 32mm
<b>Cooling</b>	
Coolant pressure	Approx. 6 bar
Coolant type	Water emulsion / oil
Coolant quality	300 l
<b>Electrical installation</b>	
Grinding motor power	3 kW
Machine input power	Approx. 6.5 - 8.9 kVA
Weight	Approx. 1250 kg
<b>Dimensions</b>	
Machine	1250 x 1875 x 2200 mm
Height w/ air extractor (oil)	Approx. 2300 mm (ca. 2650 mm w/ type 3001)
Height w/ air extractor (water)	Approx. 2650 mm
Min. required door opening height for transportation	2020 mm

### Additional benefits

- Adjustable hook and clearance angle
- Precision grinding
- Easy grinding speed changes between diamond grinding wheels or CBN grinding wheels
- CBN deep grinding and extra fine filtration of the coolant
- Saw blade bracket at the point of grinding

### Optional accessories:

- Effective exhaust filters for oil or water based emulsion
- External, maintenance friendly fine filter system for HSS or Carbide chips in addition to the integrated coarse filtration.
- Internet connection for remote diagnostic system
- Cutting in chip breaker grooves with additional attachment
- Additional tooth shapes and tooth geometries available



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