

WK450 Automatic Circular Saw Blade Grinder

Model WK450 | Saw Blade Resharpener | WUK Machinery, Shenzhen China



Overview

The WK450 is a compact automatic circular saw blade grinder for blades from 50 to 450 mm diameter. Cutting angle, tooth depth and tooth pitch are all adjustable, feed runs from 45 to 180 teeth per minute, and the 70 to 150 mm wheel turns at 4200 rpm. At 130 kg on a 3 phase 380 V supply it installs next to the saw rather than in a separate room.

Who It Is For

Small sawmills, joinery and furniture workshops, metal fabrication shops, and maintenance teams that want resharpener capability without committing to a large machine.

Key Benefits

- **45 to 180 Teeth per Minute** – Feed speed is set to the amount of stock being removed, so light touch ups run fast and damaged teeth get the slower pass they need.
- **Easy Angle Depth and Pitch Adjustment** – Cutting angle from 0 to 30 degrees, tooth depth to 8 mm and pitch to 25 mm all adjust without tooling changes.
- **130 kg Installed Weight** – No foundation, no rigging crew. The machine sits on a bench or stand next to the saw line.
- **4200 rpm Wheel Speed** – Wheel speed matches the larger WK026, so the finish on a sharpened tooth is the same on either machine.

Technical Features

- Blade diameter range 50 to 450 mm
- Tooth pitch to 25 mm and grinding depth to 8 mm
- Cutting angle adjustable from 0 to 30 degrees
- Grinding wheel 70 to 150 mm outer diameter at 4200 rpm
- 1/2 HP motor on 3 phase 380 V 50 Hz supply
- Maximum blade thickness 8 mm

WK450 Specifications

Figures are taken from the machine data sheet. Items not documented are marked TBC rather than estimated.

Grinding diameter range	50 to 450 mm
Teeth pitch (max)	25 mm
Max thickness of blade	8 mm
Feed speed	45 to 180 teeth/min
Outer diameter of grinding wheel	70 to 150 mm
Range of cutting angle	0 to 30 degrees
Motor power	1/2 HP
Voltage of motor	3 phase, 380 V, 50 Hz
Speed of grinding wheel	4200 rpm
Packaging size	1300 x 800 x 800 mm
Machine weight	130 kg

Applications

- Daily sharpening of workshop circular blades
- Timber and panel saw blade maintenance in small mills
- Metal cutting blade regrinding in fabrication shops
- Mobile and on site blade service work
- Restoring tooth geometry between outside service intervals

Materials and Construction

Cast and fabricated frame with adjustable grinding head and mechanical tooth indexing. Wheel specification depends on tooth material and is quoted with the machine.

Quality Control Before Shipping

- Grinding wheel speed verified at 4200 rpm
- Indexing repeatability checked over a full blade
- Angle scale calibrated against a measured setting
- Ground teeth inspected for depth consistency
- Electrical and earth continuity check before packing

Customisation Options

- Wheel specification for HSS or carbide tipped teeth
- Alternative voltage and frequency for your supply
- Stand or bench mounting arrangement
- Blade arbors for your bore sizes
- Operator documentation in your working language on request

Certification

Certification is quoted and confirmed in writing on request. Documented certification status for this model is TBC.



Commercial Terms

- Minimum order: 1 set
- Delivery: 15 to 45 working days after deposit
- Trade terms: EXW, FOB, CFR and CIF
- Packing: plywood cases lined with plastic film
- Warranty: 12 months on the machine
- CNC control options where applicable: FANUC, SIEMENS, SYNTEC and GSK

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