



## **SW 450**

An efficient and versatile saw blade grinding machine mainly used for grinding metal cutting circular saw blades up to 550 mm diameter.

# SW 450

The automatic saw grinding machine SW 450 offers you a large range of application possibilities and will convince you by its functional design, easy operation and quick set up facilities.

It has been especially designed for sharpening HSS and segmental circular saw blades with the tooth configurations A, B and C according to DIN Standards 1837 to 1840.

Capacity range: saw blades 22 – 550 mm.

The SW grinder allows full service on metall cutting circular saws: re-sharpening, side bevelling or chamfering, recutting by means of master index plates. All these operations may be done on the same machine!

In addition, by means of special grinding attachments available for the SW grinder the following saw blades can be done:

- ✎ All kinds of Narrow Bandsaw Blades
- ✎ Power Hack Saw Blades
- ✎ Fine Toothed Solid Steel Circular Saw Blades für wood or plastic working

## The Operation of the SW Grinder: Quick, Simple, Functional.

All control elements of the grinder are clear and of easy access. Its short setup times mean high productivity and economical effectiveness.

The saw blade diameter is adjusted according a clear diameter scale. The tooth profile desired (straight back or round back teeth) is simply selected by a shift lever mechanism. Tooth pitch, tooth depth and the stock removal or grinding action on the tooth face and the tooth back are set by means of the respective adjusting screws.

Setting of the face angle or hook is carried out directly by swivelling the saw carrier arm to the desired position according to a graduated de-gree scale. The adjustment of the saw blade thickness is done by means of a dial indicator attachment with clear read-out of the value set. The horizontal mounting of the saw blade on the grinder means additional ease of set up and excellent sight control of what you are doing.



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### The SW Grinder in Operation

The grinder has been set up by the operator. Pressing the start push button, the grinding head will carry out a cam controlled horizontal movement and in conjunction with the saw blade feed the desired tooth shape will be generated.

The saw blade feed is effected by a feed finger engaging the saw teeth.

A double feed finger system ensures positive movement of saws with broken off or damaged teeth. Such defective blades may, however, also be ground by means of master index plates.

An incorporated control gear allows grinding the lead and raker teeth (high and low teeth) in one single pass.

For side bevelling or chamfering the grinding head is simply tilted up or down according to the diameter of the grinding wheel mounted.

The SW 450 operates using the dry grinding method and can be optionally equipped with an efficient dust extraction system.

### The following features are included in the basic machine already:

- ↙ Indexing device for grinding the leader and follower teeth in a single work cycle with steplessly adjustable tooth height difference.
- ↙ Feed controller for stepless adjustment of working speed upto 180 teeth per minute.
- ↙ Dial gauge for setting blade thickness.

A resharpening device for band saw blades up to 60 mm in thickness is additionally available.

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## Technical Data

### Working range for Circular saw blades

Outside diameter	22 – 450 (550) mm
Tooth pitch	up to 20 mm
Blade thickness	up to 8 mm
Tooth height	up to 8 (12) mm

### Working range for Band saw blades

Band saw blades width	5 – 60 mm up to 600 (800) mm min. 1.5 mm
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### Working range for Machine hacksaw blades

Blade length	up to 600 (800) mm
Tooth pitch	min. 1.5 mm

### Operating speed

45 – 180 teeth/min

### Grinding wheels

Ø 150 mm x 25 mm

### Electrical installation

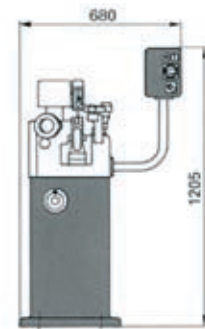
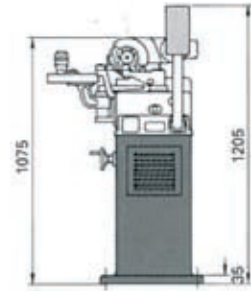
Power input machine approx. 1 kW

### Weight

approx. 140 kg

### Dimensions (W x D x H)

680 x 655 x 1205 mm



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