

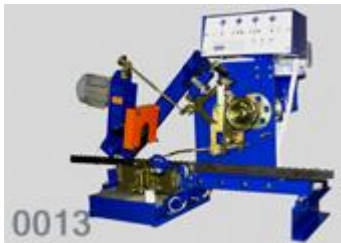
## **0011- Band saw sharpener (band saw width 20-50 mm)**



Installation is intended for sharpening of band saws in the automatic mode. Sharpening of saws with a tooth like 'Sandvik', 'Woodmizer', 'Uddeholm', 'Lenox' and others is possible. The sharpening method is based on the removal of a thin metal layer from a worn part of a tooth with the simultaneous formation of the front and rear corners of a tooth. The shape of the tooth is determined by the design of the control cam. The installation allows to adjust the height of the tooth, the pitch and location of the cavity. After sharpening the saw, the installation is automatically stopped.

Saw sharpening time (4.25 m): 5 - 7 min  
Preparation time for work: up to 2 min  
Overall dimensions: 2000x1000x1500 mm  
Power supply: 380/50 V / Hz  
Installed power: 0.5 kW  
Weight: 30 kg

## **0013 – Universal tape sharpener (desktop version)**



The unit is designed for sharpening band saws used in sawing wood, plywood, chipboard and fiber boards and other materials. The installation sharpens the entire tooth profile in order to obtain a sharp cutting edge, as well as removal of micro-cracks by removing the minimum amount of material throughout the tooth profile.

The shape of the blade tooth is determined by the control cams. Direct or oblique sharpening of the teeth cutting edges is possible. Work with cooling is provided.

Saw blade width: 10 - 80 mm  
Permissible web thickness: < 2.5 mm  
Teeth pitch: 8 - 38  
Saw tooth height: 2.5 - 12 mm  
Saw length: 1.5 - 5 m

## 0014 – Band saw sharpener with a teeth setter



The sharpening method is based on the removal of a thin metal layer from a worn part of a tooth with the simultaneous formation of a tooth profile. The shape of the tooth is determined by the design of the control cam. Installation is completed with two cams for different tooth shapes.

By adjusting the scenes of the cam, sharpening of saws with a straight rear edge, such as 'Woodmizer', 'Lenox', etc is provided. By adjusting the scenes of the cam, sharpening of saws with a convex rear edge, such as: 'Uddeholm' is provided. The installation allows you to adjust the height of the tooth, the pitch and location of the cavity. Tooth setter are produced by the following formulas:

left-right-left-right, etc.

straight-left-right-straight, etc.

straight-right-left-straight, etc.

To control the amount of wiring there is an indicator. After sharpening and setting the saw, the installation automatically stops.

Saw sharpening time (4.25 m): 5 min

Width of the saw : 20 - 50 mm

Adjusting the front angle of the tooth: 0 - 20 degrees

Length of the saw: 4 - 5 m

## 0015 – Band saw sharpener (band saw width 20 - 50 mm)



Installation is intended for sharpening band saws used in woodworking enterprises. Installation works in automatic mode. Sharpening saws with a tooth of the following type: 'Sandvik', 'Woodmizer', 'Uddeholm', 'Diamond', 'Lenox' and others.

The unit is equipped with a control panel with a built-in frequency converter (inverter), which allows to smoothly change the sharpening speed over a wide range.

The sharpening method is based on the principle of removing a thin layer of metal along the entire tooth profile. The shape of the tooth is determined by the design of the control cam and the adjustments: by changing the timing of the saw feed and the sharpening stroke.

## **0016 – Band saw sharpener (band saw width 20 - 80 mm)**



Installation allows for sharpening band saws in widths from 20 to 80 mm in increments of 8 to 38 mm with a tooth profile - "Sandvik", "Woodmizer", "Uddeholm", "Diamond", "Lenox" and the like. The installation has two performance options:

1. AZL - 80 - with a constant feed rate of the saw.
2. AZL - 80 M - with adjustable feed rate using a frequency converter.

Time to sharpen one tooth:

-on the installation AZL -80 - 2.2 sec

-on the AZL -80 M installation - 6.9 - 1.5 sec

Diameter of the grinding wheel: 80 - 150 mm

Rotational speed of the grinding wheel: 4600 rpm

Power supply: 380/50 V / Hz

Installed power: 0.45 kW

Weight: 62 kg

## **IRM160PS – Band saw sharpener "BORAZON"**



The installation of sharpening band saws is intended for sharpening the teeth of band saws, with the aim of obtaining a sharp cutting edge, as well as removing micro cracks along the entire tooth profile, by removing a thin layer of material by grinding. The unit uses profile borazon circles, which determines the shape of the saw tooth.

Saw width: 20 - 50 mm

Setting accuracy:  $\pm 0.1$  mm

Time of sharpening one tooth: 2.2 sec

Diameter of the grinding wheel: 150 mm

Frequency of rotation of the grinding wheel: 4600 rpm

Power supply: 380/50 V/Hz

Installed power: 0.45 kW

Overall dimensions: 2000x1000x500 mm

Weight: 43 kg

## 0053 - Frame saw teeth setting device



The device is intended for tooth setter and band saws with a width of 50 to 180 mm in wood. The device is operated manually and allows to perform both a classic wiring, and a special, providing a cleaner cut and increasing the number of re-saws without wiring. The principle of the device is to bend the saw tooth, clamped at the level of its base between the anvil and the clamp, using a steel punch. The screw and the clamp are actuated by a lever-hinge mechanism, providing a reliable, adjustable clamp with a wedge effect, while ensuring exceptional ease of movement. Fixing the position of the tooth, both right and left, in front of the punch is carried out by one changeover pawl.

The device is equipped with an indicator to control the amount of wiring, as well as an adjustable anvil with two levels in height relative to the punch.

Permissible saw thickness: 3 mm

Height of the tooth: 2.5 - 20 mm

Overall dimensions: 1500x400x400mm (without saw)

## 0053 - Frame saw teeth setting device



Sharpener is intended for sharpening of teeth of circular saws by method of dry grinding in the semi-automatic mode.

The installation can be completed with special adaptations for:

- sharpening wide band saws;
- sharpening frame saws. (gator saw)

The sharpening method is based on the principle of removing a thin layer of metal from a worn part of a tooth while simultaneously forming the front and rear faces of a tooth at a certain angle. Sharpening is carried out with abrasive grinding wheels  $\text{Ø}200 \times 6 \times \text{Ø}32$  or  $\text{Ø}250 \times 6 \times \text{Ø}32$ . The shape of the tooth is determined by the design of the control cam. With the help of adjusting mechanisms you can change the pitch, height and angles of the treated teeth.

Diameter of saw: 200 - 800 mm

Adjustment limits: tooth height: 10 - 40 mm

Tooth pitch: 15 - 50 mm,

Front angle of the tooth: 0 - 45°

Sharpening accuracy:  $\pm 0.1$  mm

Power supply: 380/50 V / Hz

Installed power: 0.5 kW

Weight: 70 kg

## 0025 – Circular saw (hard alloy) sharpener



The unit is intended for sharpening both steel circular saws with hard teeth made of hard alloy, as well as with ordinary steel teeth, including with notches. Installation and removal of the saws is carried out manually, sharpening automatically. The principle of the installation is to remove a rotating diamond disc (disc Ø150mm) or abrasive wheel with a circle (Ø200) metal layer from the working surface of the saw teeth. In the sharpening mode of hard-alloy teeth, only flat working surfaces of the tooth (except lateral ones) are processed, steel teeth are sharpened along the entire perimeter with preservation of the existing grinding profile.

Sharpening adjustment accuracy:  $\pm 0,04$ mm

Tooth height: 10 – 40 mm

Straight tooth pitch: 15 -70 mm

Tooth pitch with bevel (TV alloy): 15 -35 mm

Limits of adjustment of a tooth angle: 0 - 85°

Diameter of the saw: 250 – 1100 mm

Diameter of the bore saws: 30,32,40,50,70 and 80 mm

Circle rotation speed: 3700 rpm

Power supply: 380/50 V / Hz.

Installation power: 0.4 kW

Overall dimensions: 1100x520x1650mm