



**WRAVOR**<sup>®</sup>  
SLOVENIA

**ONCE & ALWAYS**

[www.wravor.com](http://www.wravor.com)



# WOODWORKING MACHINERY



EVERYWHERE WITH YOU

**WRAVOR**

**WRAVOR d.o.o.**  
production, trade, transport, import - export


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CE EAC





**HORIZONTAL  
BANDSAWS**

**3**



**CIRCULAR  
SAWS**

**16**



**SAWING  
LINES**

**20**



**DEBARKING AND  
SORTING LINES**

**22**



**MACHINES FOR  
CIRCULAR AND  
BANDSAW BLADES  
MAINTENANCE**

**24**



This company has its roots in experienced sawmilling family.

After years of producing bandsaws in the garage at his house, his desire to display innovative technologies led Vladimir Wravor to the establishment of the WRAVOR company.

1934

1985

## TRADITION

WRAVOR was born and grew in the heart of the Pohorje forests where dealing with timber is in people's blood. Having started as a small company, with its roots in the love for wood and its processing, grew a successful company with a tradition and experience, known world-wide and with solid foundation for the future.

Company's main activity is to design and build machines for sawmills.

Principally horizontal logbandsaws which can be installed either independently or in connection with conveyors and multirips in sawing line, and resulting as a combination of high technology with a minimal cost of labour and premium cutting capacity.

We are proud to see our machines provide work and income to small and middle sized sawmills or they are integrated in big sawmills all around the world. WRAVOR machines are cutting huge amounts of diverse wood pending from domestic to exotic hardwood. What truly fills us with pride is that customers who run our machines, always come back to us for a next need.

**Once Wravor, always Wravor.**

Why choose Wravor?



### QUALITY

High – tech level of production and mounting high quality components from recognized suppliers.



### FLEXIBILITY

We do not offer standard machines, but all custom made according to requirements of the customer.



### CUSTOMER SERVICE

We are open for any questions and help also after the warranty period has expired, with our service team all over the world we enable that our machinery never stop.



### RESPONSIVENESS & SERVICE

Quickly respond to all customer queries and in case of problems we solve them as soon as possible.



... many innovations.



### CERTIFICATES & ACHIEVEMENTS

Founder and general manager of the company Vladimir Wra-  
vor received the award for outstanding business achieve-  
ments from Chamber of commerce and industry Slovenia.  
WRAVOR became a famous and wellknown brand and  
standard of quality in its branch. it received awards as exhib-  
itors for best technical achievements in the field of wood-  
working technology.  
All products are certified according to CE quality norms and  
Russian GOST standard of quality.



### INNOVATION AND OWN DEVELOPMENT

We are always looking for new  
solutions how to improve ma-  
chines and we constantly intro-  
duce new technologies which are  
followed by competing companies.

## VISION



**HQ, INDUSTRIAL PRODUCTION  
& warehouse in more than  
10000m<sup>2</sup> in three locations**

With all qualities that we can offer to customers is our  
vision clear. »**BE THE BEST**« !

**WRC 2000 AC**

# Horizontal bandsaws for large sawmills

**THE WORLD BIGGEST  
HORIZONTAL BAND SAW**



Scissor lift for heavy boards

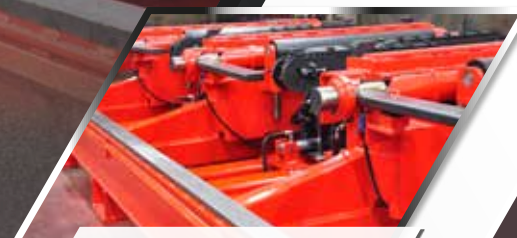
**WRC 2000 AC**

## TECHNICAL DATA

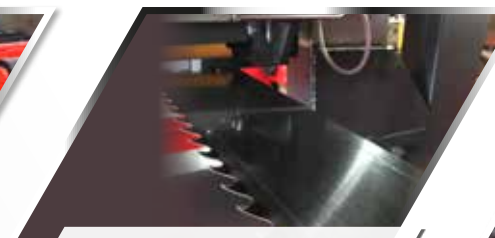
Diameter of main wheels: 1350 mm  
Width of main wheels: 160 mm  
Max. log diameter:  $\varnothing$  2000 mm  
Cutting length: ON DEMAND  
Bandsaw blade length/width: 10215 / 180 mm\*  
Main motor power [kW]: 75 Kw / 110 Kw  
Cutting capacity: up to 100 m<sup>3</sup> / 8h \*

\*doublesided blade is +20mm wider

\* Option / additional equipment (page 14)



Heavy duty construction



Wide bandsaw blade with cooling



Massive movable 2 step grippers and log support

## Horizontal bandsaws for cutting hard exotic wood with big diameter

Specialty of these bandsaws is a robust and wide construction with additional reinforcements. All manipulation and control components including electronics are adapted to harsh weather conditions. We have also perfected form for easy transportation and installation.



WRC 1550 AC



Twin log turners –  
movable for big logs



Controlled in a separate  
operator cabin.

### TECHNICAL DATA

Diameter of main wheels:	1350 mm
Width of main wheels:	160 mm
Max. log diameter:	∅ 1550 mm
Cutting length:	ON DEMAND
Bandsaw blade length/width:	9800 / 180 mm*
Main motor power [kW]:	55 Kw/75 Kw
Cutting capacity:	up to 80 m <sup>3</sup> / 8h *

\*doublesided blade is +20mm wider

\* Option / additional equipment (page 14)



**WRC 1250 AC**

# Horizontal bandsaws for high productivity sawmills



**WRC 1250 AC**

## TECHNICAL DATA

Diameter of main wheels: 1250 mm  
Width of main wheels: 135 mm  
Max. log diameter:  $\varnothing$  1250 mm  
Cutting length: ON DEMAND  
Bandsaw blade length/width: 9045 / 160 mm\*  
Main motor power [kW]: 45/55 Kw  
Cutting capacity: up to 55 m<sup>3</sup> / 8h \*  
\*doublesided blade is +20mm wider

\* Option / additional equipment (page 14)

Fast and precise cut



Continuously controlled cutting proces with video & eye visualization



Precutter follows log shape



Pushing boards with guiding hand



Fast manipulating with log



Strong rails with extra weld hardened material, movable log turners, reinforced support, each roller movable (high) + driven

## Horizontal bandsaws for sawmills with high cutting capacity

These saws in addition to its strong construction are distinguished by a high degree of automation, which contributes to high cutting capacity with minimum labour. They are upgraded with fully automated system with automatic setting of cut thickness and movements. In most cases are connected in production line with logdeck, outfeed conveyors and multirips.



WRC 1225 AC

### TECHNICAL DATA

Diameter of main wheels:	1200 mm
Width of main wheels:	125 mm
Max. log diameter:	∅ 1250 mm
Cutting length:	ON DEMAND
Bandsaw blade length/width:	8685 / 150 mm*
Main motor power [kW]:	30-45 Kw
Cutting capacity:	up to 43 m <sup>3</sup> / 8h *

\*doublesided blade is +20mm wider

\* Option / additional equipment (page 14)



Side holders on rails

**WRC 1150 AC**

# Horizontal bandsaws for smaller sawmills



**WRC 1150 AC**

## TECHNICAL DATA

Diameter of main wheels: 1150 mm  
Width of main wheels: 115 mm  
Max. log diameter:  $\varnothing$  1150 mm  
Cutting length: ON DEMAND  
Bandsaw blade length/width: 8190 / 140 mm\*  
Main motor power [kW]: 22-45 Kw  
Cutting capacity: up to 20-40 m<sup>3</sup> / 8h \*  
\*doublesided blade is +20mm wider

\* Option / additional equipment (page 14)



Double threaded spindle



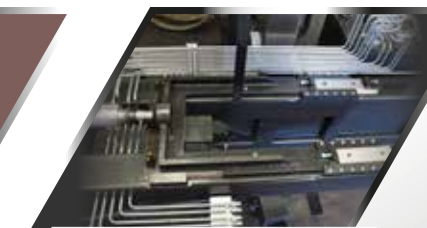
Automatic lubrication and cleaning



Guiding hand



Double pre-cutter



Hydraulics covered under the deck in the rails with galvanized hydraulic pipes

## Horizontal bandsaws for sawmills with smaller cutting capacity

Horizontal bandsaws are designed for individuals for which sawmilling is not main activity but only supplementary. This bandsaws are simple, but still sufficiently equipped with hydraulic components for simple and easy work. Saws are customized for easy installation and minimal use of labour.



**WRC 1050 AC**



Wide range of log manipulating equipment



Air-conditioned cabin on the sawmill.

### TECHNICAL DATA

Diameter of main wheels:	1050 mm
Width of main wheels:	100 mm
Max. log diameter:	∅ 1050 mm
Cutting length:	ON DEMAND
Bandsaw blade length/width:	7470 / 120 mm*
Main motor power [kW]:	18.5-45 Kw
Cutting capacity:	up to 30 m <sup>3</sup> / 8h *

\*doublesided blade is +20mm wider

\* Option / additional equipment (page 14)



**WRC 1050  
VENEER**

**TECHNICAL DATA**

Diameter of main wheels: 1050 mm  
Width of main wheels: 100 mm  
Dimension of prisms: 850/750 mm  
Cutting length: ON DEMAND  
Bandsaw blade length/width: 7470 / 140 mm\*  
Main motor power [kW]: 30-55 Kw  
Cutting capacity: up to 850 lamels/8h \*

\* Option / additional equipment (page 14)

**Automatic bandsaws for  
cutting veneer**

This type of bandsaws are designed and manufactured with years of engineering and testing on field directly with customers. A lot of patents distinguishes a fully automatic bandsaw , 2 side cutting veneer with accuracy of 0.1mm! , automatical setting of thickness, movement and removal of lamellas.



It can be equipped with prism loading ramp ...



... or automatical logdeck ...



... and outfeed conveyer with robot manipulator.



Machine has special prism turners.



Adjustable hand for boards



Additional sawdust exhauster system with ventilator on machine.



Machine can operate independently or connected in multi-line with several veneer bandsaws

## Cutting glass wool and glulam

This machine has special holders that can be set with pressure and high level of automation and manipulation of cut material.



## Cutting plastics

This machine is equipped with vacuum holders or with robotic arm for handling workpieces.



## Bandsaw with edgers

We can add circular saws on every machine for edging boards at the same time.



# Options/additional equipment

## Options / equipment on the rails

### RAILS



mounted in concrete



bandsaw for big logs



Elevated rails with automatic system for waste cleaning.

### GRIP



grip with one cylinder



grip with two cylinders + mechanical grip lift



grip with two cylinders + hydraulic lifting of grip pins

### LOG TURNER



standard



movable logturner



double logturner

### LIFTING + MOVEMENT



mechanical holder



lifting



lifting + movement of roller

### ANGLE



angle



double movable logturner

## Additional



multifunctional joystick



laser



display



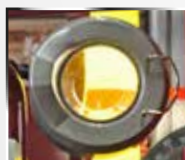
camera



central greasing



rearview mirror



magnifying glass



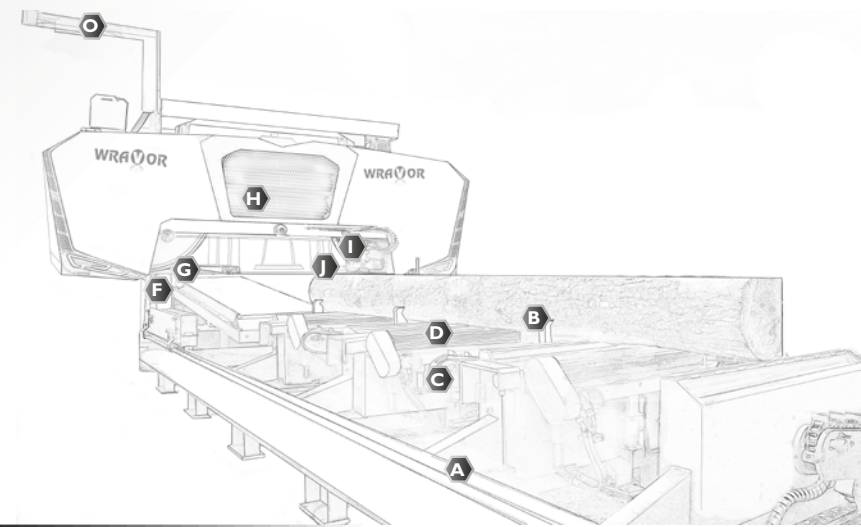
light



automatical blade cooling and greasing



central greasing



**Options /  
equipment  
on the  
headrig**

**MOVEMENT UP/DOWN**



with spindles



with chains



fast spindles - servo controlled

**BANDSAW BLADE  
GUIDANCE**



manual



hydraulic



pressure with oil mist

**BANDSAW BLADE  
TENSION**



manual - hydraulic



automatic-hydraulic tensioning  
+ accumulator

**WHEELS**



welded



cast steel

**PRECUTTER**



electrical



hydraulic



double hydraulic or electrical

**SETTING OF  
CUT THICKNESS**



manual on  
the scale



with computer



with computer,  
automatic setting

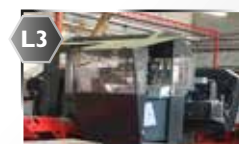
**COMMAND PANEL**



on the machine



command panel - self standing



air-conditioned command panel  
separate or on machine

**HAND FOR  
PUSHING BOARDS**



mechanical



hydraulic



additional  
guiding hand

**EXHAUSTER**



mechanical opening



preparation for  
ventilation with hose



ventilator

**CABLE CARRIER**



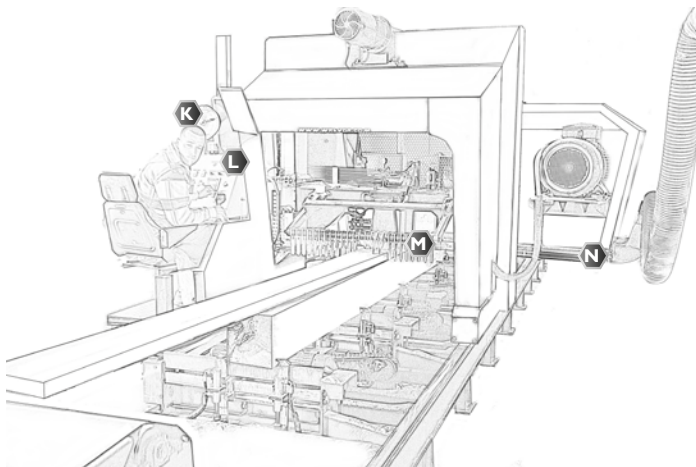
steel rope



C profile + cable wheels



plastic cable  
carrier - chain





# Circular saws for cutting boards by width

## CIRCULAR SAW 60 GR



### TECHNICAL DATA

Technology: under table pneumatic  
Main motor: 6 kW  
Diameter of circular saw  $\varnothing$  (mm): 500/30  
Pneumatic: YES (30m<sup>3</sup>/H)  
Max. Cutting width (mm): 585  
Max. Cutting height (mm): 160  
Opening for exhauster for sawdust connection  $\varnothing$  (mm): 125

## CIRCULAR SAW 70W



### TECHNICAL DATA

Technology: above table crassaw manual  
Main motor: 3 kW  
Diameter of circular saw  $\varnothing$  (mm): 400/30  
Pneumatic: OPTION  
Max. Cutting width (mm): 700  
Max. Cutting height (mm): 100  
Opening for exhauster for sawdust connection  $\varnothing$  (mm): 100

## INCLUDED IN THE LINE

MACHINES CAN BE INDEPENDED OR INCLUDED IN LINE WITH MEH/AUTO. TRANSPORTERS



## CIRCULAR SAW 80M



### TECHNICAL DATA

Technology:	under table pneumatic	
Main motor:	7,5/11 kW	
Diameter of circular saw Ø (mm):	600/40	
Pneumatic:	YES	
Max. Cutting width (mm):	800	Opening for exhauster for sawdust connection Ø (mm): 160+100
Max. Cutting height (mm):	165	

## CIRCULAR SAW 100W



### TECHNICAL DATA

Technology:	above table crossaw pneumatic	
Main motor:	6 kW	
Diameter of circular saw Ø (mm):	550/40	Max. Cutting height (mm): 160
Pneumatic:	YES	Opening for exhauster for sawdust connection Ø (mm): 100
Max. Cutting width (mm):	1000	

## CIRCULAR SAW 100M



### TECHNICAL DATA

Technology:	under table pneumatic	
Main motor:	7,5/11 kW	
Diameter of circular saw Ø (mm):	700/40	Max. Cutting height (mm): 130
Pneumatic:	YES	Opening for exhauster for sawdust connection Ø (mm): 160
Max. Cutting width (mm):	1000	



# Crosssaws for cutting boards by width – circular saws

## 750 20-100 (single axis - edger)



### TECHNICAL DATA

Main motor:	22kW
Min/max cutthickness	20/100mm
Max cutting width :	600mm
Diameter of circular blade :	350/80mm
Max number of circular blades:	4 pieces
Number of movable blades:	1 piece

**Option:** computer setting of cutwidth / brushes / additional laser / sawdust collector with automatical belt

## 750 20-120 (single axis) / (2 x) / (3 x) / (4 x) / B – brushes



### TECHNICAL DATA

main motor:	22/30/37 kW
min/max cutthickness	20/120mm
max cutting width :	900-1000 mm
diameter of circular blade :	400/90mm
max number of circular blades:	8 pieces
number of movable blades:	1 piece / 2 x – 2 pieces / 3 x – 3 pieces/ 4 x -4 pieces
computer setting of cutwidth	

**Option:** brushes / additional laser / sawdust collector with automatical belt

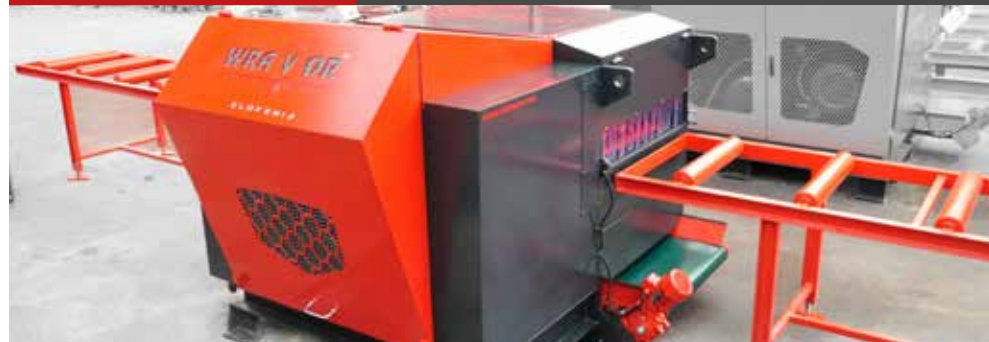
## 750 20-160 (single axis) / (2 x) / (3 x) / (4 x) / b – brushes



### TECHNICAL DATA

Main motor	30 / 37 / 45 / 55 kW	opening for exhauster	Ø 200
Min/max. Cutthickness	20 mm / 160 mm	automatical conveyor for s awdust length	1600 mm
Max cutting width	900 - 1000 - 1250 mm	laser (number depends from movable blades)	15 mW
Max. diameter of circular blade	Ø 500 / 90 mm		
Max. number of circular blades	10 pieces	<b>Option:</b> computer setting of cutthickness V 130 / V280, automatical infeed conveyor with centrator, automatical outfeed conveyor with sorting	
Number of movable blades	1 piece / 2 x – 2 pieces / 3 x – 3 pieces/ 4 x -4 pieces		

## 750 40-200



### TECHNICAL DATA

Main motor	37 / 45 / 55 kW	automatical conveyor for sawdust length	2200 mm
Min/max. Cutthickness	40mm / 200 mm	laser	15 mW
Max cutting width	800 - 900		
Max. diameter of circular blade	Ø 400 mm / 90 mm	<b>Option:</b> automatical outfeed conveyor with sorting	
Max. number of circular blades	10 + 10 pieces		
opening for exhauster	Ø 250		

## 750 40-250



### TECHNICAL DATA

Main motor	45 / 55 / 75 kW	
Min/max. Cutthickness	40 mm / 250 mm	
Max cutting width	600 - 700 mm	
Max. diameter of circular blade	Ø 450 mm / 90mm	automatical conveyor for sawdust length 2200 mm
Max. number of circular blades	10 + 10 pieces	laser 15 mW
opening for exhauster	Ø 250	<b>Option:</b> automatical outfeed conveyor with sorting

## INCLUDED IN THE LINE

MACHINES CAN BE INDEPENED OR INCLUDED IN LINE WITH MEH/AUTO. TRANSPORTERS



# Sawing lines

## SAWING LINE PROFI



Combination of selected bandsaw and circular saws provide maximum output of finish products in small area.

Min/ max diameter of log: depend of type of machine 120- 1500mm

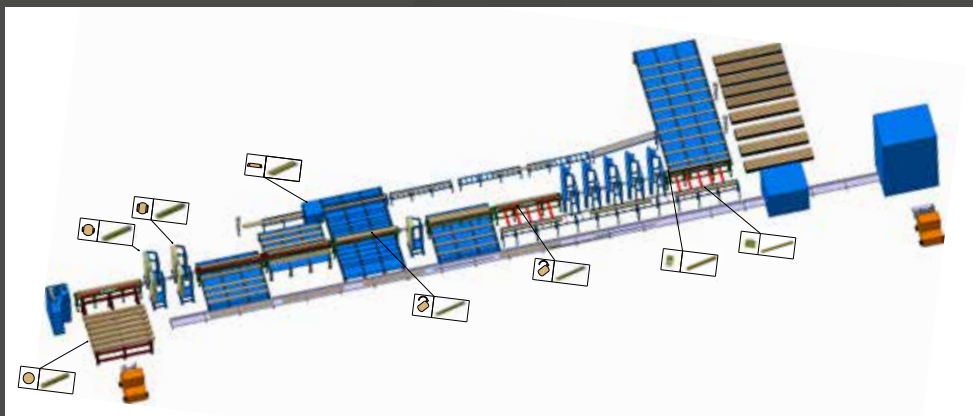
Min/max lenght of log: depend of type of machine 1- 16m



- sawdust extraction
- circular crosscut for cutting boards by lenght
- loading ramp
- bandsaw
- exit & transversal auto transporters
- multiblade circular saw for cutting boards by width

## Sawing line WMH (Wravor multi head)

Sawing line is designed for sawmills which cut mainly small diameter logs and need automatic manipulation and operation.



## MULTI CUT

SAWING LINE IS COMBINED WITH 2 different types of bandsaws, for optimum efficiency of different log diameters.

On separated lines we can cut small to big diameter and each line is optimized for their orders.

Crossaws and circulars saws are computer- controlled for fast changing of different measures.

Automatic conveyors collect final products on sorting and stacking lines.



## SAWING LINE CS with circular saws

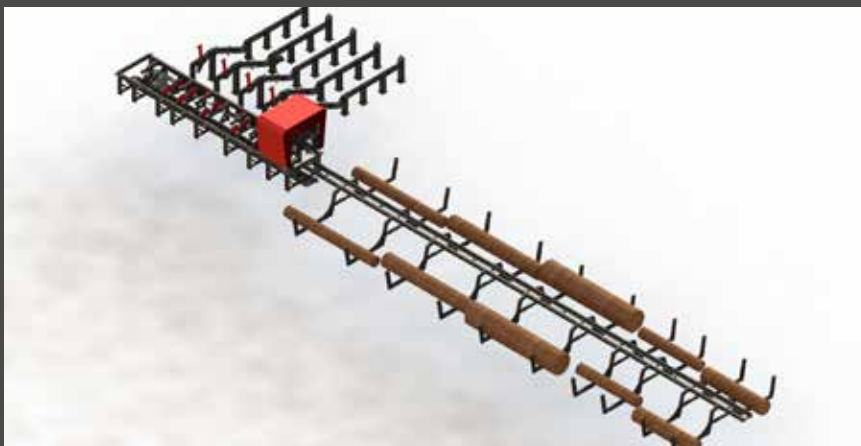


Automatic sawing line with multirip enables high productivity of cutted boards. It can be installed as parts of bandsaw cutting line or separately.



## DEBARKERS

Debarkers for diameters from 200-1500mm with milling edges of log ends. We also offer sorting for debarked logs by lenght and diameter.



# Loading and sorting

## Self loading arms



Self loading arms are recommended for middle to small sized bandsaws, with lower capacity of manipulated logs.

## Loading ramp i200 / i240 / i270 / i300



Optimum cutting capacity depends also from fast log feeding. We can offer wide range of logdecks for small/big, short / long logs with automatic logloading.

## Conveyors for boards and prisms



Robust outfeed conveyor for boards works in automatic mode with sorting left/ right or straight.

## Transversal conveyor



Transversal conveyors round line with multirip and edger into fully automatic line.

### Outfeed conveyors + brushes



Cutted boards are removed from bandsaw by mechanical or automatic conveyor.  
Boards can be cleaned with brushes.

### Conveyor for prisms



Is located in front of the band saw, where prisms move automatically to side transversal conveyor.

### Mechanical roller conveyor



### Automatic cleaning conveyor for waste





# Machines for circular and bandsaw blades maintenance

Machine for manual sharpening circular blades type WCM



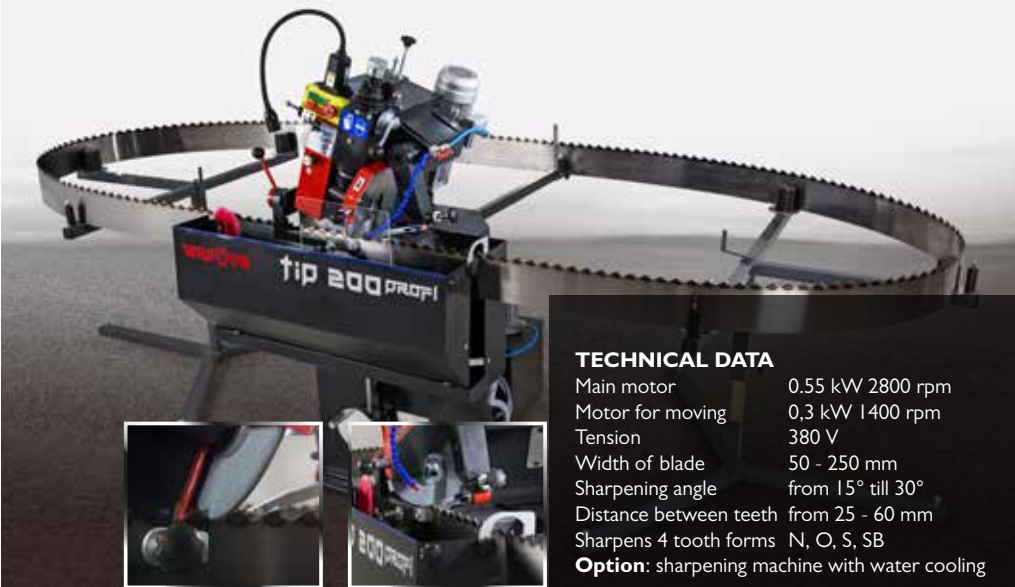
TECHNICAL DATA	
Motor	1 - 0,37 kw 2800 rpm
Tension	380 V
Diameter of sharpening	90 - 180 mm 180 - 500 mm
Distance between teeth	0 - 50 - 100 mm

Automatical machine for sharpening circular blades type WCA



TECHNICAL DATA	
Motor	1 - 0,37 kw 2800 rpm
Tension	380 V
Diameter of sharpening	90 - 180 mm 180 - 500 mm
Distance between teeth	0 - 50 - 100 mm

Sharpening machine for bandsaw blades type 200 PROFI



TECHNICAL DATA	
Main motor	0,55 kW 2800 rpm
Motor for moving	0,3 kW 1400 rpm
Tension	380 V
Width of blade	50 - 250 mm
Sharpening angle	from 15° till 30°
Distance between teeth	from 25 - 60 mm
Sharpens 4 tooth forms	N, O, S, SB
Option:	sharpening machine with water cooling

Machine for welding bandsaw blades type WW



TECHNICAL DATA	
Welding device	CO <sub>2</sub> 160/180 A 220/380 V
Width of blade	50 - 250 mm
Blade thickness	0,7 - 2,5 mm
Tension	220 V

## We offer wide range of machines for circular and bandsaw blades maintenance

### Machine for rolling bandsaw blades type WR with straighting table



#### TECHNICAL DATA

Motor	1,1 kW 1400 rpm
Tension	380 V
Width of blade	70 - 250 mm

### Machine for automatic pressing and egalizing bandsaw blades type WAE



#### TECHNICAL DATA

Motor	1,1 kW 1400 rpm
Tension	380 V
Thickness of blade	0,9 mm till 1,4 mm
Tooth height	from 10 mm
Distance between teeth	from 25 - 60 mm
Width of blade	70 - 250 mm
Pressing speed	30 t/min

**Options:** Machine for manual egalizing bandsaw blades type WE, Machine for manual pressing bandsaw blades type WVP

### Automatic stellite tipping machine type Wravor WWS



#### TECHNICAL DATA

Bandsawblade length	from 5300 mm
Bandsawblade width	70 - 280 mm (300 - 350+)
Bandsawblade thickness	0,9 - 3,6 mm
Length of welded stellite	from 3 - 8 mm
Tooth shape:	all types
Min tooth height	6 mm
Tooth step	25 - 50 mm (15 - 60 mm)
Tooth angle	15 - 30°

### Automatic machine for side grinding stellite tipped blades type WCS



#### TECHNICAL DATA

Bandsawblade thickness	0 - 9 mm
Tooth shape:	all types
Tooth step	5 - 50 mm
Tooth side angle	from 0° - 8°
Bandsawblade length	from 5500 mm
Bandsawblade width	70 - 280 (300-350) mm

**All new WRC,**



# performance by black series

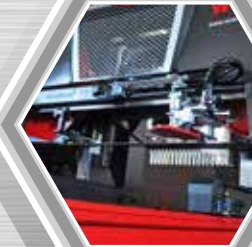
**WRC 1050 AC**  
Black Series performance



Combination of high – tech equipment with frequency controlled motors and movements.  
Soft start & stop starting



Boards pushing hand with adjustable height & additional side holders



Pressurized blade guidances with oil mist cooling  
Automatical oil and grease lubricating  
Tracking forecutter



Robust and raised rails with automatical waste cleaners



All possible equipment for manipulating with log; movable logturners, patented fast log & prism turners, 2 levels of log grippers



Separated self standing control panel with seat and 2 joystick controlling.