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# CTR 800 S



4920 × 35 – 40 × 0,9 – 1,1 mm



**Feed into the cut and back – motor-powered**

**Arm height adjustment – motor-powered**

**Control panel – stationary**

**Log handling – manual**

Max. log diameter	830 mm
Max. opening between blade guides	750 mm
Max. elevation of blade	685 mm
Min. log height	30 mm
Max. depth of cut	450 mm
	1,8 m
Length track section	3 m

Min. log length	1 m
Saw blade motor	7,5 (11) kW
Vertical feed motor	0,55 kW
Sawblade	4920 × 35 – 40 × 0,9 – 1,1 mm
Weight (standard model)	750 kg
Weight (track section)	131 kg

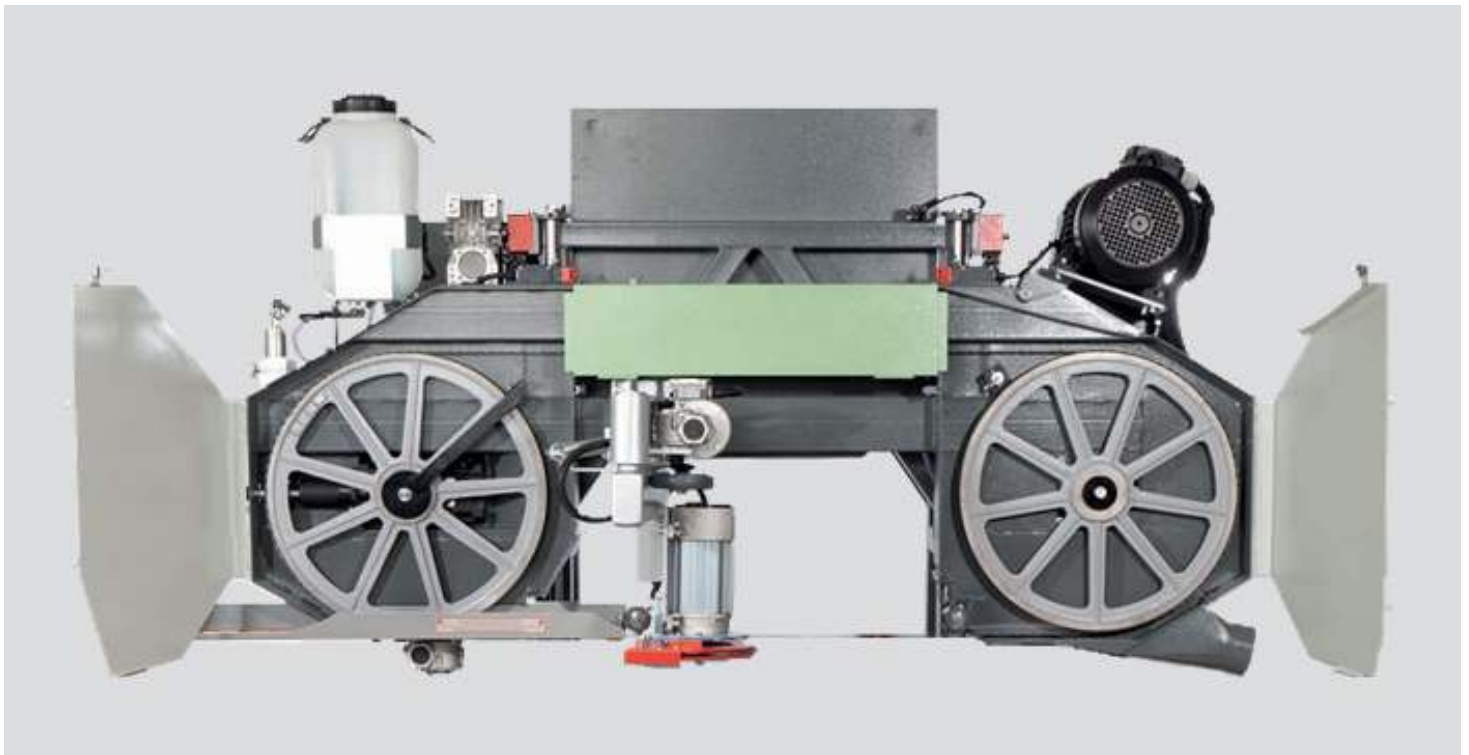
Innovative version of the extremely successful CTR 800 that has been on market for 15 years now. The key change lies in the increase of the impeller diameter from the original 500 mm to 600 mm. This allows you now to use 1.3 mm thick saw blades in contrast to the formerly used 0.9 – 1,1 mm blades. Using a 1.3 mm thick saw blade is the newest trend in band saws with narrow blades. The risk of blade rippling in the cut even at high speeds is substantially reduced. Thus, the machine productivity and the cutting accuracy are considerably increased. Apart from the new machine design, there are many technological adjustments that improve user comfort as well as the quality and durability of the



The design of the arm (now 40 kg heavier) and the sliding hard chromium rods has been reinforced. Due to heavier weight, the motor is now equipped with a brake, as in machines of the highest category. It significantly increases the accuracy of stopping at the desired point and contributes to the service life of the whole uplift system.

Universal log band saw which is, with its maximum cutting diameter of 83cm, suitable for most lumber. A wide, exceptionally massive running bridge of the band saw arm and robust running sections ensure undisturbed operation when cutting and even at high running speeds. Professional execution of all main technical units, such as running wheels with their bearing system, saw band arm construction, powering and feeding system, etc. ensure maximum service life and machine accuracy even under the most difficult operating conditions. Continuously adjustable machine feed to the cut and back and band saw arm height adjustment. Travel speed is displayed on the digital display. In contrast to CTR 800, the central control panel on this machine is stationary and it's placed on the main running section. This allows convenient control of the machine from a single location. For the backwards movement after the cut is finished (to the default position at the operator) the machine is provided with a rapid feed and automatic deceleration and stopping in end positions.

The feed to the cut and back is driven by an electric motor with worm gearbox controlled by a frequency converter. You can change the speed of travel simply by turning the potentiometer on the control panel. The massive band saw arm is borne on adjustable hard-chromium rods (for moving up and down) which ensure absolute accuracy of band saw arm movement and virtually unlimited service life, if the machine is lubricated regularly. The vertical movement of the arm is provided by double-sided synchronous chain transmission powered by an electric motor with worm gearbox. The movement controlled from the central panel has two modes of speed – rapid feed and slow feed for accurate movement to a desired position. This system can be always additionally equipped with electronic metering which automatically moves to the specified position.



The arm is fitted with blade wheels made of high-quality grey cast iron with accurate balancing against vibrations. The wheel has a groove along its circumference. The groove holds a replaceable rubber-textile belt which creates an optimum contact area between the wheel and the saw blade. The sturdily mounted blade wheel is powered through a wedge belt by a professional electrical motor specially balanced against vibrations.

The tensioning wheel system moves along a sturdy cast iron wedge guide with adjustable pressure bar, which allows highly accurate adjustment without any free travel even in long-term machine operation.

The saw blade is guided in the cut by hardened and ground guide pulleys. This system can be fully adjusted in all directions and it ensures optimum position of guide pulleys and the saw band.

In order to ensure accuracy of the cut the guide pulley on the operator's side moves as close as possible to the workpiece. Simply operated massive bearing system. It can be motor-powered and controlled as an auxiliary device from the control panel.

Stable running sections with steel arm bridge guides form the basis of the machine. They are sufficiently dimensioned for maximum diameters of logs as well. They were designed reflecting the practice, therefore designed to cope with very hard operating conditions. Cut length is virtually unlimited in all types of machines, it only depends on the length of running gear installed. Running gear sections are fitted with massive, height-adjustable log-bearing surfaces and adjustable retractable angles and log clamps. The basic version of the machine includes 3 workpiece clamps and 2 angular steady bars.

Gravity cooling and lubricating of the band with adjustable outlets in both guide pulleys ensure that the saw band is in optimum condition during cutting.

CTR series present the latest trends in construction of log saw bands with a special emphasis on maximum accuracy and long-term service life of the machine while ensuring minimum costs.

The machines are designed in an original modular execution which allows easy replacement or adjustment of all main technical sections and their individual parts. This in the long-term perspective reduces the maintenance costs and service times and therefore production stoppages as well.



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Felt wipers causes precise cleaning of rail strips



Both ends of the guides are fixed on both ends against the bridge collision with 2 limit switches. It will slow down and then stop the bridge.

# SPECIAL ACCESSORIES



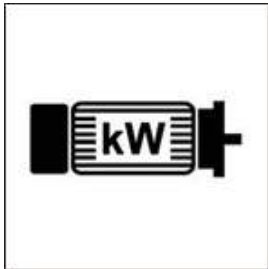
## Track section

1 meter – basic rails only  
3 meter – contain in basic: 3x cross beams, 2x angle arms.  
Another variable points: 3x material clamps.



## Hydraulic tensioning of the blade

Operated by a hand pump hydraulic with accurate indication of pressure. The tension of the saw blade is more accurate and comfortable



## Main motor 7,5 kW

Stronger output of motor provides faster cut, mainly with huge diameters of logs



## LG 100

It is intended for a quick and accurate setting of required board thickness. The movement of the band saw arm up and down is displayed with an accuracy of 0.1 mm on a colour display. The absolute height from the band saw bed or, after reset, the set board thickness including the optional kerf thickness is displayed.



## LG automat

Digital measuring system for fast and accurate automatic setting of the desired thickness of the cut.  
After the specification of basic settings (height from the loading area and cut-through) and of the desired value (cut thickness), the arm with a saw band will automatically move to the required position. That prevents human-induced failures that can arise during manual cut settings. Saves time, refines production.



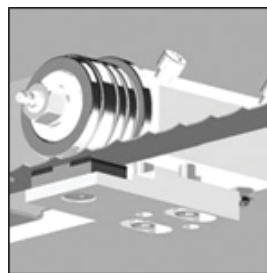
## Pre-cutter

The pre-cutter circular with hard metal tips is designed to remove dirt at points where the saw blade cuts into the log. The saw blade do not get blunt quickly. Frequent saw blade exchanges are reduced, the saw blade life, and the productivity of the machine increase



## Hydraulic saw blade straining

Operated by a hydraulic hand pump with accurate pressure indication. The saw blade straining is more accurate and convenient.



## Hard-metal Saw Band Guidance

It is located on the moving rail before the cut. It significantly improves saw band stability in the cut and also in its cleaning. Therefore it increases the machine productivity and cutting accuracy. This machine can be installed on an electrically controlled rail.



## Route for feeding logs

Electronic device that allows a regular starting of the main motor of the band saw. Prevents overvoltages in the network by reducing the mechanical stress of the entire machine. For 11 kW engines



## Pressure two-sided saw band cooling

The cooling system consists of a pressure pump in the coolant tank, flow control solenoid valve and two-way jets that spray the saw band both from below and from above. Two-side cooling prevents undesirable stress in the saw band and adhesion of resin from underneath the saw band and thus helps maintain stabler saw band operation, more accurate cut and longer service life.



#### Material Clamp

Consists of a rail and a front and rear clamp.



#### Lever

For handling, loading and turning the log on the machine frame.



#### Saw Band Cooling Control

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#### Ammeter

The ammeter scale shows the saw blade engine load during the cut. It is designed to simplify the selection of the feed speed; it also indicates the saw blade bluntness. A timely exchange of the saw blade increases the life-span and improves the cutting quality.



#### ARCTIC version

Version of the machine adapted for work in extremely cold operating temperatures reaching down to  $-40^{\circ}\text{C}$ . Machine's switch board, control panel and digital measuring (LG 100, LG Automat) are fitted with heating elements. The heating is controlled through a thermostat. Frost-resistant lubricant. Band saws CTR 800 H, 950 H, 1000 H and 1300 H use frost-resistant hydraulic oil.



#### Grease LV 2-3

400g cartridge for the grease gun



#### Hand Operated Grease Gun

For regular maintenance of the machine according to the lubrication plan. Metal grease gun for 400g cartridges. Equipped with a flexible pressure tube.

## CONSUMABLE PARTS



#### Saw Band Guide Pulley VK 35

Hardened ground pulley, bearings, shaft for a saw band 35 mm wide



#### Saw Band Guide Pulley VK 40

Hardened ground pulley, bearings, shaft for a saw band 40 mm wide



#### Flat Running Wheel Belt 6PK 1550

# SAW BAND SHARPENERS



## Semiautomatic sharpener OR 50

An extraordinarily study and professional workmanship of the sharpener guarantees an accurate saw blade sharpening – the basic condition for productive and quality cutting on any bandsaw mill.

The stone grinding wheel is a thin grinding wheel that traces the tooth shape by means of an adjustable cam system. This system enables setting of any tooth shape and size.

### Accessories:

- base
- halogen lamp
- cooling system



## Semiautomatic sharpener OR 50 F

This sawblade sharpening machine is equipped with a frequency changer, which enables continuously variable speed of sawblade feed. In this way, the sharpening quality and productivity are increased.

A thin stone grinding wheel traces the tooth shape by means of an adjustable cam system. This system enables setting of any tooth shape and size.

### Accessories:

- base
- halogen lamp
- cooling system



## Semiautomatic sharpener OR 71 F

New generation of sawblade sharpener OR 71 F can sharpen blades of up to 70 mm. Completely new system of tooth shape setting. The sharpener has its own integrated cooling system, lamp and frequency converter to enable continuous adjustment of the sawblade feed speed.

### Accessories:

- base
- stone grinding wheel (traces the tooth shape by means of an adjustable cam system and enables setting of any tooth shape and size).
- diamond paste (applied to the stone grinding wheel, improves roughness and extends the life of the grinding wheel).



## RW 71

A sturdy cast iron design ensures a long life of the machine and the maximum accuracy of setting. Two teeth (right, left) or three teeth (right, left, straight) are set at the same time with a single lever movement. Price including a saw setting indicator. Saw band setting up 15 to 70 mm width.

### Accessories:

- base



## SK 35

They are designed to adjust the setting of individual teeth.

# SAWBLADES

## MAXWOOD STELIT

High-quality band saw is the second most important factor (just after the machine construction) for cutting speed and accuracy and maintenance of long service life. Choose your saw band from a wide selection of excellent professional saw bands. CTR 800 uses the saw band sized 4920 mm. The band is manufactured in following versions



Sawblade dimension (mm)		Tooth pitch (mm)		Tooth shape	Tooth face angle
width	thickness	22	25		
35	0,9 / 1 / 1,1	•	•	WM	Standardly 10°. Another face angle on request.
38	1 / 1,1	•	•	WM	
40	0,9 / 1 / 1,1	•	•	WM	

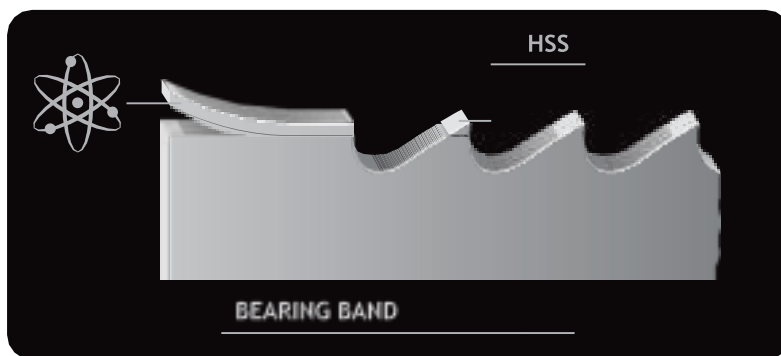


Stellite application is the latest trend in the treatment of cutting edges on saw bands. Stellite is a cobalt-chromium based alloy containing other elements. It is weld directly on the carrier belt in the place of a tooth tip and it forms a compact saw band cutting edge. In contrast to frequently used high-speed steel it is much more resistant to blunting and therefore it doesn't require frequent replacement and sharpening. The band is supplied sharp.

Use of stellite saw bands brings a number of benefits:

- can be used for cutting for up to two shifts without changing or sharpening
- stellite cutting edge is 2 mm wide which eliminates the need for setting of teeth
- allows higher rate of feed into cut
- very fine roughness of the cut surface
- possibility of cutting tropical wood of the highest hardness

## MAXWOOD BIMETALIC



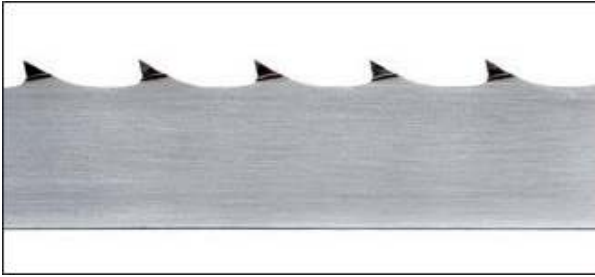
Costruite con punta dei denti in acciaio viene solitamente utilizzata per tagliare il ferro. Questa nuova tecnologia elimina la necessità di sostituire o affilare spesso la lama della sega. La lama portante è in lega di acciaio per molle con cromo e il dente è in HSS con durezza di 67 HRC. La lama è fornita nitida, incastonata e levigata. Uso: legno morbido, duro

Sawblade dim. (mm)		Tooth pitch (mm)				Tooth shape	Tooth face angle
width	thickness	8,3	12,8	20,3	22		
34	0,9 / 1,1				•	WM	10°
34	1,1	•	•	•		H	10°
41	1,1				•	WM	10°





## MAXWOOD

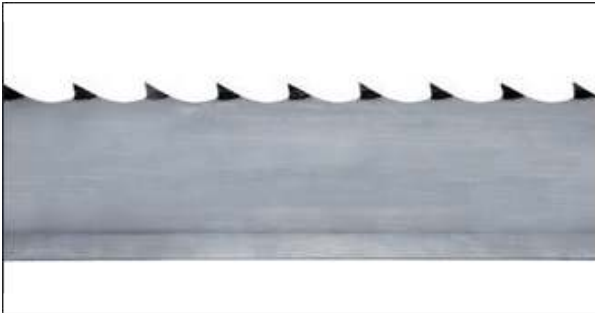


Saw blade dimension (mm)		Tooth pitch (mm)			Tooth shape	Tooth face angle
width	thickness	19	22	25		
35	0,9 / 1 / 1,1	•	•	•	WM	9°/10°/12°
38	1 / 1,1	•	•	•	WM	10°
40	0,9 / 1 / 1,1	•	•	•	WM	9°/10°/12°



Excellent saw band made of C75 alloy steel, manufactured specially for Pilous on the basis of our long-term experience. High teeth setting and geometry accuracy. Excellent combination of high durability and fatigue strength. The band is supplied sharp, set and polished. Unique process of induction hardening of the tooth tip ensures extraordinary service life of the cutting edge. Tooth cutting edge hardness from 43 up to 46 HRC.

## MUNKFORS



Saw blade dimension (mm)		Tooth pitch (mm)			Tooth shape	Tooth face angle
width	thickness	19	22	25		
35	0,9 / 1	•	•	•	WM	10°
38	1,1 / 1,25		•	•	WM	10°
40	0,9 / 1		•	•	WM	10°



The Swedish company Munkfors is a leading company in the development of saw bands for woodworking industry. The manufacture process utilizes a unique, patented method of tooth shape cutting. Thanks to this technology the cutting edge is sharper, the band has exceptionally long service life and the cut is smoother. Carrier steel strip UDDEHOLM ensures excellent flex life and durability of the saw band. The saw band is sharp and set, the tooth tips are hardened.

## MAXWOOD-S



Saw blade dimension (mm)		Tooth pitch (mm)			Tooth shape	Tooth face angle
width	thickness	19	22	25		
35	0,9 / 1 / 1,1	•	•	•	WM	10°
38	1 / 1,1	•	•	•	WM	10°
40	0,9 / 1 / 1,1	•	•	•	WM	10°



Excellent, durable carrier C75 alloy steel with the addition of nickel achieves hardness of 41–43 HRC and tooth tips are therefore not further heat-treated. The band is characterized by high flex life. The teeth of the saw band aren't set or sharpened