



SEGATRONCHI

TECNOUTENSILI S.R.L.

Via IX strada n°03 - 95020 Catania - Italia

+39 095 712.53.23

www.segatronchi.it / segatronchi@gmail.com

CTR 1000 H 40 LX



Feed into the cut and back – motor-powered

Control panel – stationary

Arm height adjustment – motor-powered

Log handling – hydraulic

Max. log diameter	970 mm
Max. opening between blade guides	850 mm
Max. elevation of blade	875 mm
Min. log height	30 mm
Max. depth of cut	450 mm
Max. log length (standard model)	7,6 m
Length track section	3 m
Min. log length	1,2 m

Saw blade motor	15 (18,5) kW
Horizontal feed motor	1,5 kW
Vertical feed motor	0,55 kW
Hydraulic motor unit	5,5 kW
Hydraulic oil	ISO6743/4-HM, DIN51524part2-HLP
Sawblade	4820 × 35 – 40 × 0,9 – 1,1 mm
Weight (standard model)	2580 kg
Weight (track section)	420 kg

A new version of the legendary CTR 950 Hydraulic with increased maximum cut diameter of the log to 1000 mm. Besides a completely new design of the machine there have been made a number of technical modifications and changes to improve the quality, user comfort and durability of the machine. Exceptionally robust construction of the machine and high-performance hydraulic equipment allow operation even under the most difficult operating conditions including non-stop operation. Many hydraulic accessories easily handle even very large logs, significantly increase the productivity of the machine and save labour costs.

Log Clamp 2x
Retractable angle 5x
Retractable Log Turner 1x
Log Taper Adjuster 1x
Log Taper Adjuster with Feed 1x

Thanks to the unique modular design of CTR series the machine is fitted with many fitting points for hydraulic equipment. That allows large variability of its placement with regard to the total cutting length and specifics of the processed material.

A wide, exceptionally massive running bridge of the saw band 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 into the cut and back and saw band arm height adjustment. Travel speed is displayed on the digital display. The central control panel is stationary and it's placed on the main running section. This allows convenient machine control from a single place with complete hydraulic accessories. The feed into 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 end stops provide automatic deceleration and stopping in end positions.

The massive saw band arm is borne on adjustable hard-chromium rods (for moving up and down) which ensure absolute accuracy of saw band 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 running 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 band.

The sturdily mounted running 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.



When cutting the saw band is guided by hardened and ground guide pulleys. When before the cut, it is additionally guided in combination with precise hard-metal guidance. 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.



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.



LED lighting (11 W)

good quality lightening of the workspace using two powerful LED strips mounted on a movable bridge.

The basis of the machine is formed by extremely stable travel sections with reversible, adjustable, steel guidance of the arm bridge. Travel sections are amply dimensioned for the indicated maximum diameters of processed logs and based on practice they count even with very tough operating conditions. Double sided guidance of a bridge on the travel section combined with a powerful engine, enable fluent and fast shift (removal) of even heavy cut pieces when using the cut material feeder. Length of the cut is practically unlimited for all types according to the number of installed sections. Travelling sections are equipped with massive, height adjustable timber bearing areas.



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.

Accessories

There is a wide range of accessories to all of these machines; they simplify and accelerate machine operation and influence its production. Our original modular system allows additional installation of necessary equipment at any time, because all basic versions of machines include all fitting spots including holes and threads.

ACCESSORIES



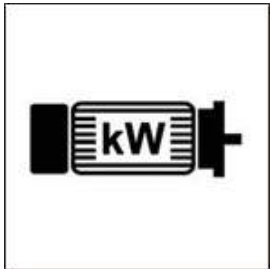
Track section

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 18.5 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.



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.



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



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

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.



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°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 1000 H / 40 uses the saw band sized 4820 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

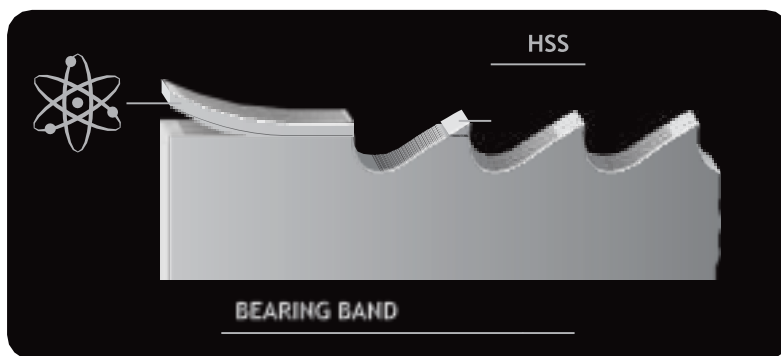


MAXWOOD BIMETALIC



Construction of the saw band with a tooth tip made of tool steel which is typically used for cutting iron. The new technology allows significantly longer cutting time without the need for replacement or sharpening of the saw band.

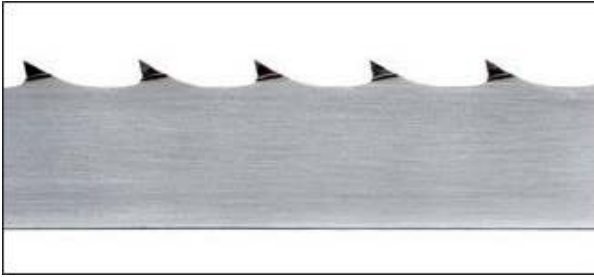
The carrier saw band is made of spring steel alloyed with chromium and the tooth tip is made of HSS material with cutting edge hardness of 67 HRC. The band is supplied sharp, set and polished.



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

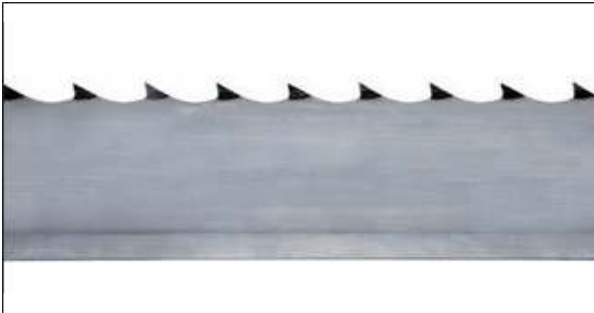


Saw blade dimension (mm)		Tooth pitch (mm)			Tooth shape	Tooth face angle
width	thickness	19	22	25		
35	0,9 / 1 / 1,1	•	•	•	WM	9°/10°/12°
38	1 / 1,1	•	•	•	WM	10°
40	0,9 / 1 / 1,1	•	•	•	WM	9°/10°/12°



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

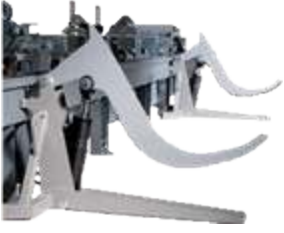


Saw blade dimension (mm)		Tooth pitch (mm)			Tooth shape	Tooth face angle
width	thickness	19	22	25		
35	0,9 / 1 / 1,1	•	•	•	WM	10°
38	1 / 1,1	•	•	•	WM	10°
40	0,9 / 1 / 1,1	•	•	•	WM	10°



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.

HYDRAULIC ACCESSOR



Double-arm Hydr. Log Loader

The hydraulic double-arm log loader allows safe and fast lifting of the log onto the loading area of the machine. The main frame of the machine is fitted with lifting attachments along its full length, which allow easy transport of individual holders according to the length of the loaded material. Each loader is controlled separately, which allows to lift easily even very tapered logs.



Additional Arm to the Log Loader



Log Taper Adjuster

Lifts the log axis in horizontal position according to its taper or lifts the whole log above the loading area to allow easier handling. The robust rotary cylinder ensures simple feed of the log.



Log Taper Adjuster with a Powered Roller for Horizontal Log Feed

Lifts the log axis in horizontal position according to its taper or lifts the whole log above the loading area and uses the powered roller on the adjuster to maintain optimum length alignment on the loading area of the machine. The horizontal feed roller is powered by a hydraulic motor.



Log Turner

One piece is always a part of the basic version of the machine and it is a vital multi-functional assembly, the most significant of all hydraulic accessories. It moves both in vertical and horizontal axis on strong hard chromium plated rods using two independently controlled hydraulic cylinders. It is used to clamp, turn and feed the material to retractable stops.



Log Clamps

Hydraulic clamps align themselves automatically according to the log diameter or they can be locked in the desired position. They are also used for one-side material clamping against angular stops. All clamps are controlled by a single controller.



Double-arm Chain Log Turner

Powerful chain log turner is equipped with two pivoted, separately controlled arms. They hold chains, synchronously driven by a hydraulic motor. The chains facilitate easy turning of the cut material. When cutting long logs that need constant turning we recommend to equip the machine with a pair of turners. This will help reduce the required handling times significantly and therefore increase the machine effectiveness.