



Pilous

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CTR 1000 H / 40



5350 x 34-41 x 0,9-1,27
mm

Max. log diameter	1000 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	ISO 6743/4-HM, DIN 51524 part 2-HLP
Sawblade	5350 x 35 ÷ 40 x 0,9 ÷ 1,1 mm
Weight (standard model)	2580 kg
Weight (track section)	420 kg

Nominal current of circuit breaker is minimally: main el. motor 15,0 kW – 50 Ampere / main el. motor 18,5 kW – 63 Ampere

DESCRIPTION

Feed into the cut and back – motor-powered

Arm height adjustment – motor-powered

Control panel – stationary

Log handling – hydraulic

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.

The basic version is fitted with following hydraulic accessories:

- Hydraulic log clamp - 2x
- Tilting angle - 5x
- Retractable log turner - 1x
- Taper conicity passive roller - 1x
- Taper conicity driven roller - 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.

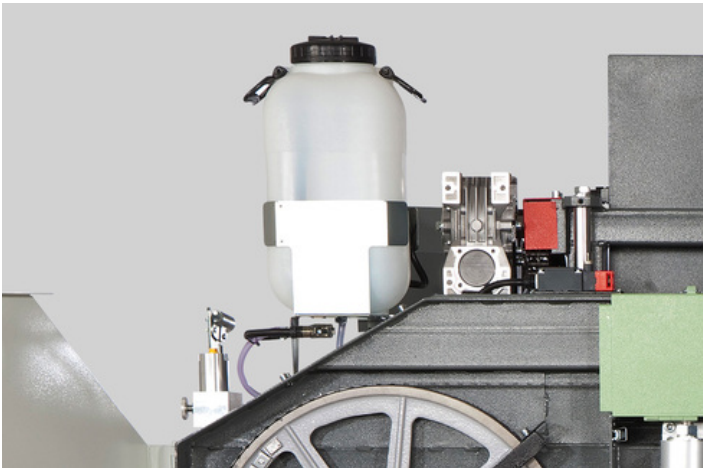
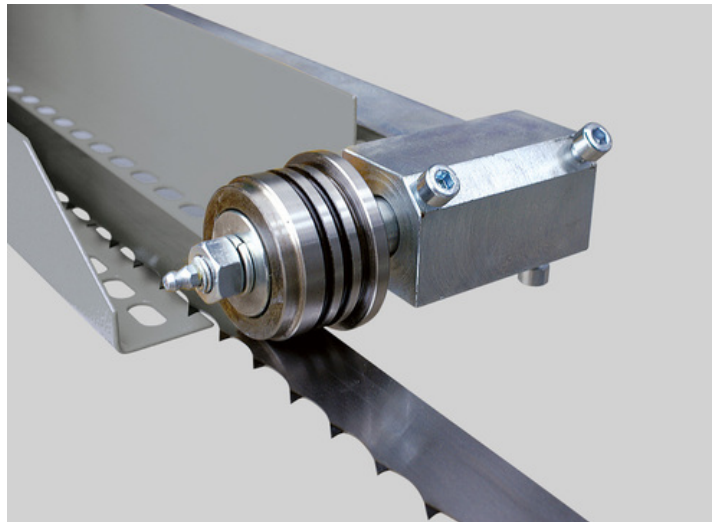
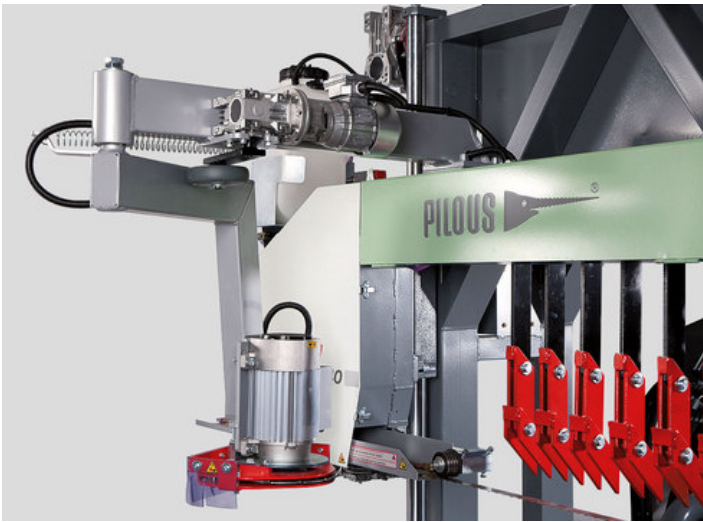
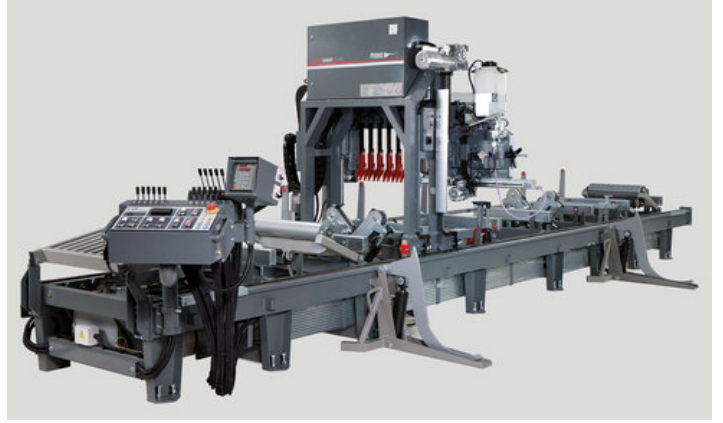
The wheel has a groove along its circumference. The groove holds a replaceable rubber-textile belt which creates an optimum contact area between the wheel and the saw band.

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.

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.

PHOTOGALLERY



ACCESSORIES

ACCESSORIES – SPECIAL ACCESSORIES



Main motor 18,5 kW

Main motor 18,5 kW

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



Track section 3 m

Track section

3 meter – contain in basic: 1x squaring arm
Extending section is equipped with many points for installation of hydraulic equipment. That provides variability of placement with aspect of cutting material.



LG 100

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 / 1000 H/40

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 / 1000 H/40

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 / 1000 H/40

Hydraulic saw blade straining

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



Ammeter

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.



Soft starter

Soft starter

Electronic device enabling a smooth start-up of the band saw main motor. It prevents grid surges reducing mechanical stress of the whole machine. For motors 11 kW.



Electrically controlled bar 1000

Electrically controlled bar

Adjustment of sliding guide bar of the saw blade depending on the log diameter electrically controlled from the central control desk.



Lever for log loading

Lever for log loading

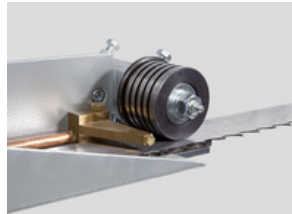
Serves as help with manipulation with logs on machine frame.



Saw band cooling control

Saw band cooling control

Integrated in the cooling system is an electromagnetic through-flow valve, which automatically opens when the saw blade is started and closes when the saw blade is stopped. It substantially lowers the coolant consumption and saves time needed for replenishment of coolant liquid.



Pressure two-sided saw band cooling

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.



ARCTIC version

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.



Hand Operated 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.

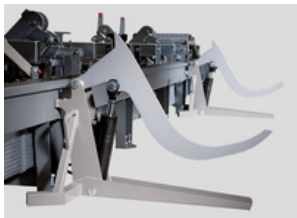


Grease LV 2-3

Grease LV 2-3

400g cartridge for the grease gun.

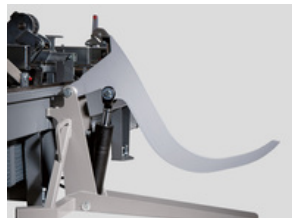
ACCESSORIES – HYDRAULIC ACCESSORIES



Double-arm hydraulic log loader 1000

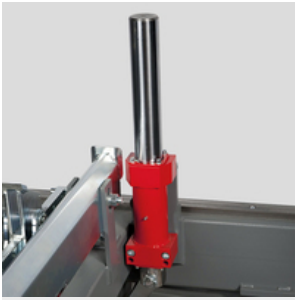
Double-arm hydraulic log loader

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 1000

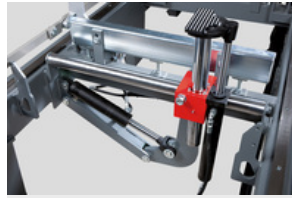
Additional arm to the log loader



**Výsuvné úhlové
opěrky 1000**

Retractable angles

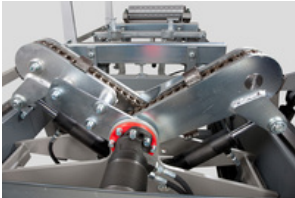
Comfortable design and replacement of standard retractable angles. Set of four pieces.



**Retractable log
turner 1000**

Retractable 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.



**Double-arm chain
log turner 1000**

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.



**Taper conicity
passive roller 1000**

Taper conicity passive roller

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.



**Taper conicity
driven roller 1000**

Taper conicity driven roller

Lifts the log axis in horizontal position according to its taper or lifts the whole log above the loading area to allow easier handling.



Log clamps 1000

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.



**Cut material feeder
1000**

Cut material feeder

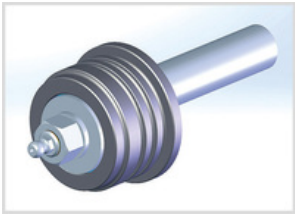
During the back feed of the saw band arm after the cut the side stops help feed the cut material towards the control panel, allowing very simple collection of the material. From this point the material can be fed onto follow-up belt or roller conveyors.



**Cut material slide
hydraulic 1000**

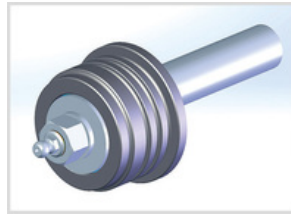
Cut material slide hydraulic

The hydraulics allow setting in accordance to the cutting plane. It is used to slide the fed material onto the follow-up belt or roller conveyors.



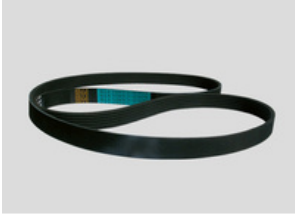
**Saw Band Guide
Pulley VK 35**

Saw band guide pulley VK 35
Hardened ground pulley, bearings,
shaft for a saw band 35 mm wide.



**Saw Band Guide
Pulley VK 40**

Saw band guide pulley VK 40
Hardened ground pulley, bearings,
shaft for a saw band 40 mm wide.

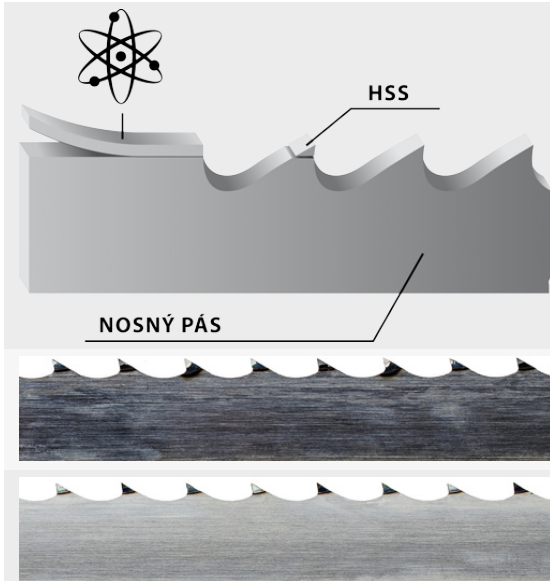


**Flat Running Wheel
Belt GPK 1885**

Flat running wheel belt GPK 1885

MAXWOOD

- The original saw blades PILOUS MAXwood are available in a variety of types which enables you to process any kind of wood.
- The wide product range not only offers more affordable saw blades for low-volume cutting, but includes also saw blades for fully professional cutting and utmost performance.
- The foundation of all saw blades are top-quality German materials and precise workmanship. The quality of the saw blades is carefully monitored. All saw blades correspond to the strict ISO 9001 norm.
- We have added to our portfolio also an original Munkfors saw blade made by the world's leading manufacturer Uddeholm from Sweden.
- Pilous saw blades are used in dozens of countries around the world. Any wood you cut, the company Pilous will recommend you a saw blade that will fit your needs.



BiMetal

Saw blade with tool steel teeth - completely eliminates the need to sharpen the saw blade as well as frequent blade replacement. Use: soft, hard to extremely hard wood.

HSS

Bearing blade

Stellite

Saw blade with teeth made of Stellite. Tooth setting is completely unnecessary. Use: soft, hard to extremely hard wood.

Carbon spring steel

The most common saw blade for optimum price/performance ratio. Use: soft and hard wood.



Be careful when unpacking welded saw blades. They are in a shipping container in tensioned condition. Remove the saw blade cover only after fitting it onto the machine.

