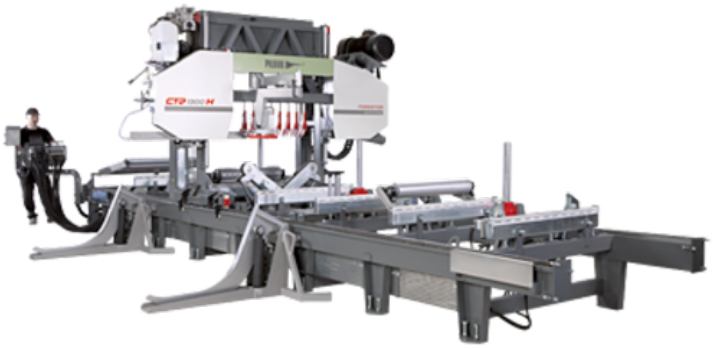
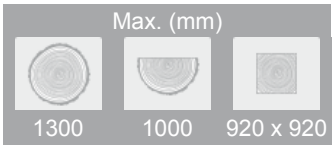
OFFER LIST

Pilous
Železná 9, 619 00 Brno, Czech Republic
Tel.: +420 543 25 20 10
*e-mail: **wood@pilous.cz**, **www.pilous.cz***

CTR 1300 H





Max. log diameter	1300 mm
Max. opening betwen blade guides	1000 mm
Max. elevation of blade	1080 mm
Min. log height	25 mm
Max. depth of cut	365 mm
Max. log length (standard model)	6,6 m
Length track section	4 m
Min. log length	2,4 m
Saw blade motor	22 (30) kW
Horizontal feed motor	3 kW
Vertical feed motor	0,75 kW
Hydraulic motor	7,5 kW
Hydraulic oil	ISO 6743/4-HM, DIN 51 524 part 2-HLP
Sawblade	6500 x 60/80 x 1,0 ÷ 1,1 mm
Weight (standard model)	3600 kg
Weight (track section)	670 kg

Nomimal current of circuit breaker is minimally: main el. motor 22 kW – 80 Ampere, main el. motor 30 kW – 100 Ampere

DESCRIPTION

Feed into the cut and back – motor-powered
Arm height adjustment – motor-powered
Control panel – stationary
Log handling – hydraulic
Extremely large and robust running sections fitted with massive hydraulic equipment allow handling very heavy logs of a diameter of up to 1.3 m, including the heaviest exotic tree species. Massive sawmill arm is fitted with large running wheels. Exceptionally robust construction of the machine and high-performance hydraulic equipment allow operation even under the most difficult operating conditions including non-stop operation. Hydraulic accessories easily handle even very large logs, significantly increase the productivity of the machine and save labour costs.

The CTR 1300 H sawmill uses technology that is common in larger sawmills. The main features are crowned wheels 60 mm or 80 mm, rolled sawblades, fixed - sliding sawblade guide, pressure compensator, change of the cooling method and associated scrapers and squeegees of the sawblade. This technology is ideal in conjunction with stellite sawblades, which are now gradually replacing conventional sawblades in this segment of the market due to their high cutting performance. The wider stellite sawblade in combination with the powerful motor enables higher cutting speeds and thus higher machine productivity. This combination has created a highly productive machine with an unbeatable price in its category.

For easier control of the timber measuring process, the sawmill features a large colour touch screen as standard. The new generation of the operating system allows a choice of four cutting modes. It is possible to set the repetition of a constant or variable thickness of lumber.
It is also possible to choose between two methods of automatic arm exit after the cut, either to a fixed height or by the last measure with an adjustable allowance.
Simple and quick entry of board thickness from an editable library.
The new system guarantees fast and accurate automatic setting of the desired cutting thickness, thus avoiding human error when setting the cut manually. It greatly saves time and makes production more precise.

The basic version is fitted with following hydraulic accessories:

• Hydraulic hold-down clamps - 2x
• Pull-up angle bars - 3x
• Pull-up log turner - 1x
• Log levelling passive roller - 1x
• Log levelling driven roller - 1x
• Hydraulic saw blade tensioner - 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 log length and specifics of the processed material.

A wide, exceptionally massive bridge of the sawmill 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, sawmill arm construction, powering and feeding system, etc. ensure maximum service life and machine accuracy even under the most difficult operating conditions.

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 inverter. Bilaterally synchronously powered and guided sawmill bridge on running sections ensures maximum stability when cutting. The travel speed can be changed simply by turning the potentiometer knob on the control panel. The end positions are secured against impact by automatic deceleration and stopping.

The massive sawmill arm is borne on adjustable hard-chromium rods (for moving up and down) which ensure absolute accuracy of sawmill 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 sturdily mounted running wheel is powered through a V-belts by a professional electrical motor balanced against vibrations. The machine is equipped with a powerful soft-starter that ensures smooth start-up of the main engine and reduction of impacts in the electric network.

The tensioning wheel system moves along a sturdy cast iron dovetail slide with screws and a bar for fine-tuning, which allows highly accurate adjustment without any free travel even in long-term machine operation. For easier and optimum tension of the sawblade the machine is equipped with hydraulic tensioning system with pressure compensator.

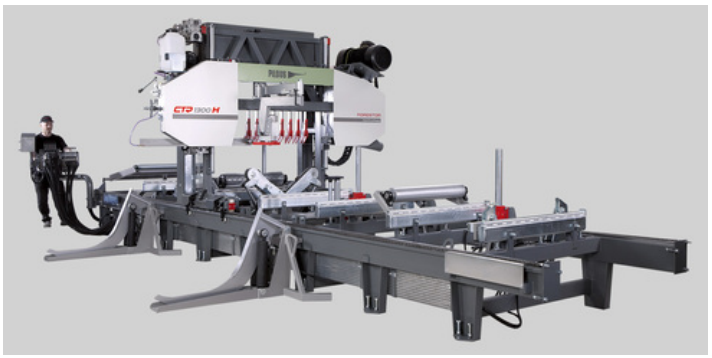
The basis of the machine is formed by extremely stable running sections with reversible, adjustable, steel guidance of the arm bridge. Running sections are amply dimensioned for the indicated maximum diameters of processed logs and based on practice they count even with very tough operating conditions. Double-sided driven guidance of a bridge on the running section combined with a powerful engine, enable fluent and fast shift (removal) of cut pieces when using the Board return arms. The log length is virtually unlimited, it only depends on the number of installed running extending sections. Running sections are fitted with massive, height-adjustable log-bearing beams, Pull-up angle bars, and Hydraulic hold-down clamps.

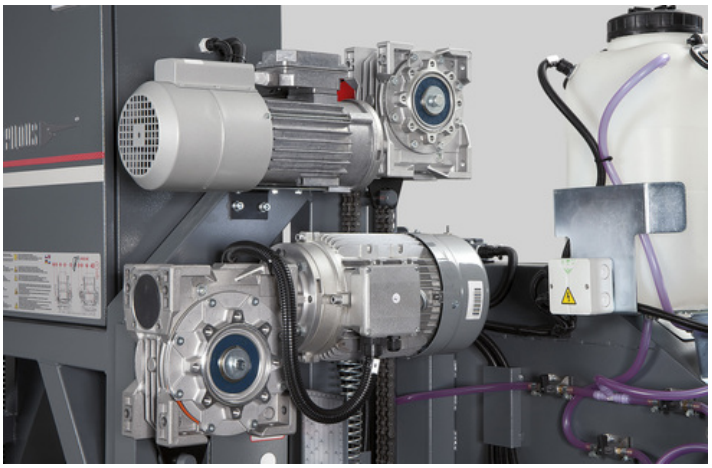
The CTR model series represents the latest trends in sawmill design, with special emphasis on maximum accuracy and long service life at minimum cost. The machines are designed in an original modular way, which allows easy replacement or adjustment of all main technical nodes and their individual parts. This significantly reduces maintenance costs in the long-term use of the machine and also reduces service times, thus reducing production downtime.

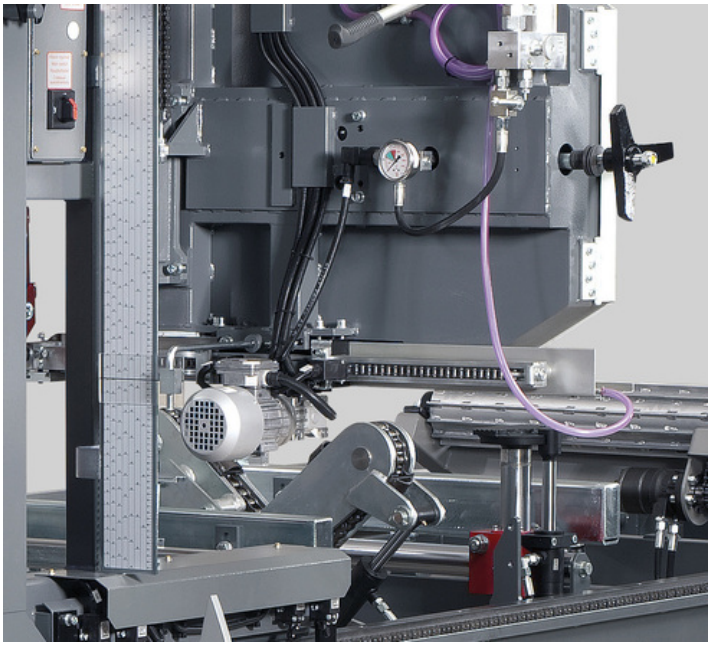
A wide range of accessories simplify and accelerate machine operation and influence its production. It is therefore possible to adapt the sawmill exactly according to the needs of the customer.

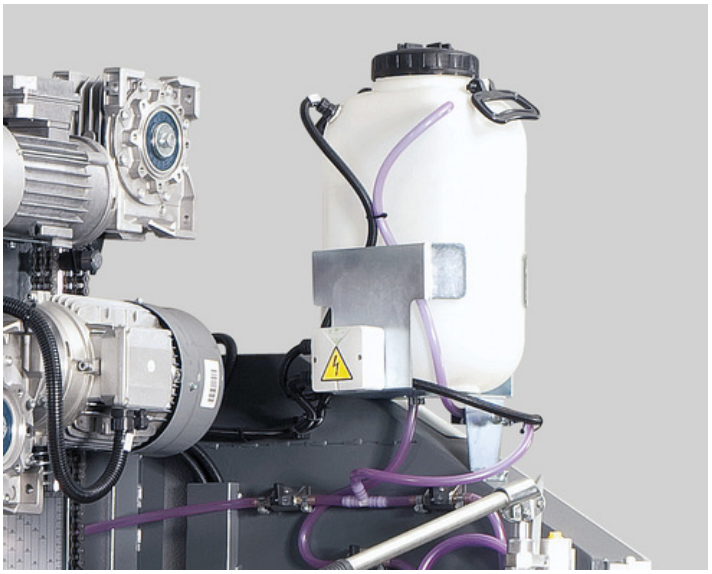
All pictures shown are for illustration purpose only. Actual product may vary due to product enhancement.

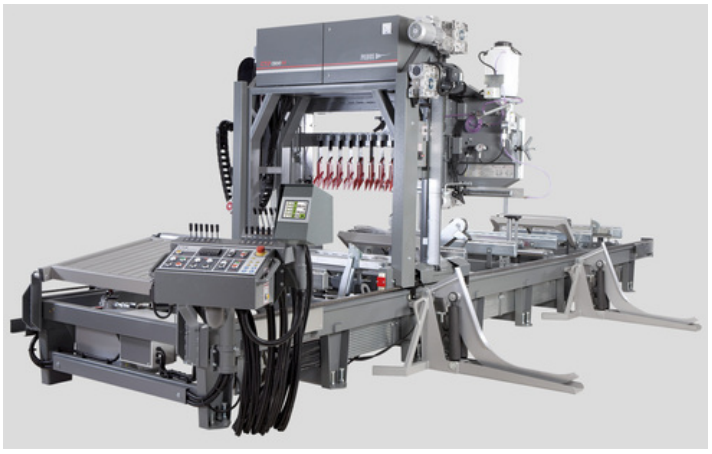
PHOTOGALLERY









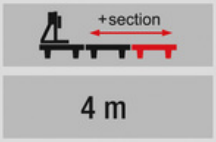


ACCESSORIES

ACCESSORIES – SPECIAL ACCESSORIES

Main motor 30 kW

Main motor 30 kW
For even higher performance, for example, when cutting oversized logs or even when cutting very hard materials, especially with Stellite-tipped blades 30 kW motor can be recommended.



Extending section 4m

Extending section 4 m
Include 1x Tilting angle bar
Extending section is equiped with many points for instalation of hydraulic equipment. That provides variability of placement with aspect of cutting material.

80 mm blade

80 mm blade
The choice of an 80 mm saw blade provides greater cutting stability, a larger tooth gap, and therefore a higher possible cutting speed.

Debarker 1300H

Debarker
Debarker 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.

Ammeter - digital blade load indicator

Ammeter - digital blade load indicator
The digital ammeter displays the load on the saw blade motor directly on the control panel. It helps guide the selection of feed speed into the cut and indicates when the blade is becoming dull. Timely replacement of the saw blade increases its lifespan and improves cutting quality.

Laser Sight

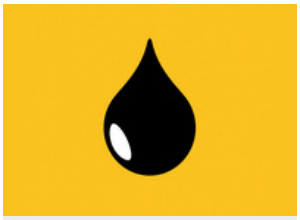
Laser Sight LAS
Laser aiming is a very practical helper for axial alignment of the log before the cutting. The cutting level shows a line copying the path of the saw blade.

Cant hook

Cant Hook
Used for turning, rolling, and handling logs. The spike can be used to separate logs or to provide stability during work by sticking it into the ground. The cant hook is available in lengths of 79 cm and 125 cm (including the spike).

ARCTIC

ARCTIC
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 are fitted with heating elements. The heating is controlled through a thermostat. Frost-resistant lubricant. Band sawmills use frost-resistant hydraulic oil.



START/STOP pressure spraying of the saw blade teeth

START/STOP pressure spraying of the saw blade teeth
Additional independent pressure cooling of the sawblade teeth, developed to maintain the perfect cleanliness of the tool. The water solution cooling system is equipped with a separate pump that automatically starts cooling when the sawblade starts up. When the sawblade stops, the pump turns off. Significantly saves cooling medium consumption.

Free-standing control panel

Free-standing control panel
A free-standing control panel with a joystick is a more comfortable option, especially when combined with a swivel chair. The entire control system can be integrated into a cabin, where you won't suffer from the cold during the winter months.

Chair

Chair
The comfortable swivel chair with five adjustment options is the ideal complement to the free-standing control panel. The chair can be equipped with heating, which is a highly desirable feature during the winter months.

Camera

Camera system
The HD camera system is primarily intended for monitoring the longitudinal cut on the sawmill and expands the operator's field of view. It can also be used to more precisely position the log before starting the cut. A live view allows monitoring the progress and quality of the cut in real time and enables quick reaction to collision situations if necessary.
The system can be expanded to up to four cameras for even better overview and coverage of critical areas. It is a robust and reliable solution designed for industrial environments. The monitor is not intended for operation at temperatures below freezing.

USB

USB
The USB socket allows charging of the tablet and phone. Ideal if you plan to use external software tools for cutting planning.

Grease Gun

Grease Gun
For regular maintenance of the machine according to the lubrication plan. Metal grease gun for 400g tubes. Equipped with a flexible pressure hose.

Synthetic Grease LV 2-3

Synthetic Grease LV 2-3
400g tube for the grease gun.

Double-arm hydraulic log loader 1300

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 for log loader 1300

Additional arm for log loader

Pull-up log turner 1300

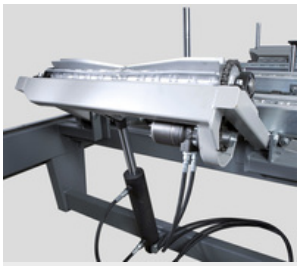
Pull-up log turner
One piece is always a part of the basic version of the machine and it is a vital multi-functional assembly, the most significant of all hydraulic accessories. It moves both in vertical and horizontal axis on strong hard chromium plated rods using two independently controlled hydraulic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

Double-arm chain log turner 1300

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.

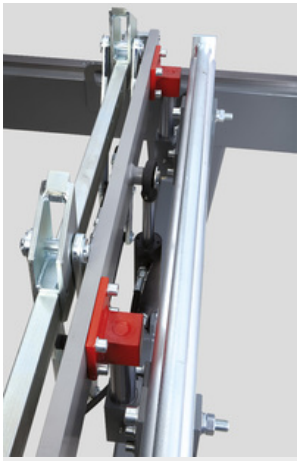
Log levelling passive roller 1300

Log levelling 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.



Log levelling driven roller 1300

Log levelling driven roller
It serves to lift the log axis into a horizontal position according to its conicity or lifting the entire log over the heading area and using a driven roller to compensate the horizontal displacement for its optimum lenghwise alignment on the machine bed. The horizontal feed roller is driven by a hydraulic motor.“



Hold-down clamp

Hold-down clamp
Hydraulic hold-down clamp align themselves automatically according to the log diameter and allows clamping of the lumber with pressure to the machine bed. All hold-down clamps used on the machine are controlled by a single controller.

Board return arms 1300

Board return arms
During the back feed of the saw blade 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.

Board hydraulic slide 1300

Board hydraulic slide
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.

Hydraulic lever

Hydraulic lever
The additional lever of the hydraulic distributor enables the connection and control of additional hydraulic accessories.