



**STATIONARY AND MOBILE INTEGRATED SAWMILL SYSTEMS:  
*MINI PROFI 900 - MINI PROFI 1000 BICOUPE***

**New models: better log handling, easier logs processing, higher output**



## Experience counts

PEZZOLATO S.p.A. has thirty years of experience in the construction of machines for the primary conversion of wood.

PEZZOLATO's know-how has become consolidated through time, by means of the cooperation of a worldwide network of specialized distributors, who allowed the technicians to increasingly understand the requirements of industrial users, also in the sawmill field.

In two plants (total area of 70,000 m<sup>2</sup>, 28,000 m<sup>2</sup> covered), with more than 150 employees, the Company manages three production lines, among the "**PLANK LINE**".

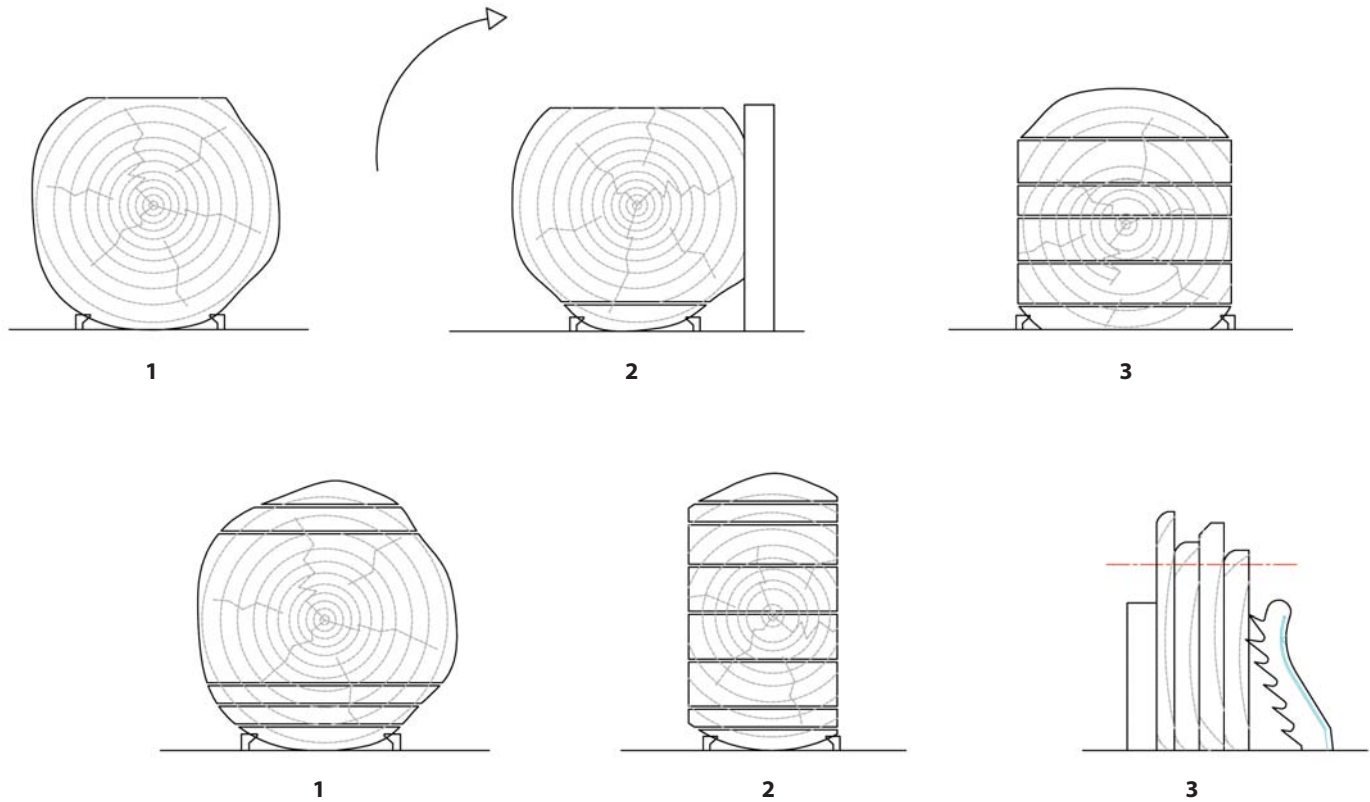
The **PLANK LINE** consists of eight models of professional horizontal bandsaws, suitable for all kind of wood, fully hydraulically operated, driven by diesel engine or electric motor, stationary or mobile: MINI PROFI 800, 900 and 1000, MAXI PROFI 1000 and 1100, SUPER PROFI 1200, 1300 and 1500.

The machines are designed and manufactured for the CE market and are in compliance with the CE machine directives.



# Technique counts

Simple working cycles:



The models **MINI PROFI 900** and **MINI PROFI 1000** have been **powered and improved**, to satisfy most demands of professional users. Further to the improvement, especially modifications in the framework (see pages 4 and 5), the machine's production capacity increases and the log handling is easier.

TECHNICAL FEATURES	New MINI PROFI			
		900 mobile or stationary	1000 mobile	1000 stationary BICOUPE
Max. log diameter	mm	1000	1000	1200
Max. width of cut (throat)	mm	820	1020	1220
Band wheel diameter	mm	900	980	980
Max. depth of cut	mm	436	550	440
Max. height of cut	mm	750	750	750
Last board size	mm	27	27	27
Width of frame	mm	1100	1100	1100
Sawblade length	mm	6075	6650	6650
Sawblade width	mm	110	120	135
Cutting length	m	6,10 (standard) - 9,10 - 12,10 (optional)		
Blade speed	m/s	28 - 33		
Feeding speed	m/min	0 - 45		
Electric motor (standard)	kW	18,5	22	22
Combustion engine	kW	27,5	27,5	-
Machine length (standard)	mm	8500	8500	8500
Machine width	mm	2470	3000	3000
Machine height	mm	3370 mobile/3200 stationary	3570	3570
BICOUPE technology		no	no	yes



### **Precision depth setting device**

- The band saw height positioning and board thickness is set by a high-precision depth setting device, which is able to set and indicate the planks thickness with half a millimeter tolerance and recognizes the blade thickness as well.



### **Sawdust box**

- Avoids sawdust waste from the working area.
- Hydraulically controlled, it allows to collect sawdust in one box, and disposes it at a decided point.

### **Bandsaw blade**

- The **blade stretching system** (avoids the saw head bending), the **pressure blade-guide** (improves the blade rigidity) and the **crowned flywheels** allow using double toothed band saw blades, known as **BICOUPE blades**. They allow cutting back and forth, thus improving production capacity up to 30%. Bicoupe cutting system can be provided only on stationary MINI PROFI 1000.

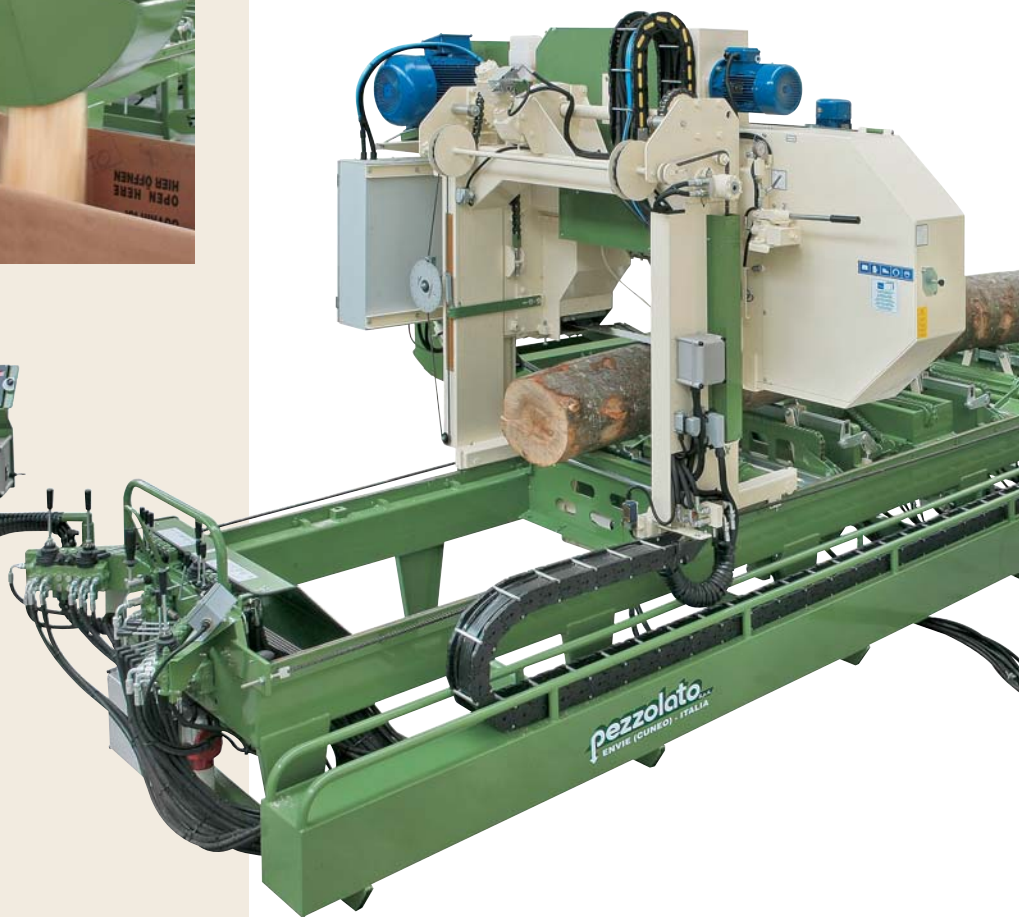


- The machine's head has been sized to allow cutting **logs with diameter up to 1200 mm**.

## **New MINI PROFI 900 a**

### **Laser beam (optional and for stationary machines only)**

- A laser device can be provided on stationary machines. The green laser line is set by the operator on the trunk, to align it and to define the first cut. The saw blade automatically reaches the laser line to start cutting.



### **Debarker device**

- Removes pollutions out of the bark.
- Reduces resharping intervals.



# 0 and MINI PROFI 1000



## **New squaring arms**

- New lateral squaring arms are mounted on a moveable cross-guide and can be positioned according to the log diameter and/or the squared wood beam compared to the headrig position.



The pictures point out the main improvements of the models MINI PROFI 900 and MINI PROFI 1000



## **Additional log turner (further to the standard lever log turner)**

- Further to the standard lever log turner, another motorized chain log turner has been added. It is very efficient in turning straight trunks both clockwise and counter-clockwise, before they are gripped.



## **Log adjusters**

- Aligning the log (when tapered), to optimize the cut.
- The motorized rollers move the log lengthwise, to position it on as many log supports as possible.

## **New log grips**

- Fasten the log to the frame.
- Self centering and height adjustable through independent hydraulic cylinder, allowing to define the best gripping point, according to the trunk shape.
- Pull the log down, thus limiting the wood fibers curving.
- Perfectly aligned in both positions (top 150 mm up and bottom 20 mm down) guarantee a minimum cutting height of 27 mm for the last board.



## Strength and reliability

Pezzolato S.p.A. have supplied several machines to **South America** and **Africa** (Mozambique, Malawi, Angola, Guinea, Ivory Coast, Zambia, Morocco, South Africa, Argentina, Brazil, Uruguay, Peru...), where climate and ambient and working conditions are extreme and wood is hard and resinous.



In such places machines must be particularly **strong and reliable**, since they are settled open-air (even during raining season, in wet climate conditions) and in the middle of the forest (where the first service point may be some days driving far on bad roads).

Bi-Metal blades and in particular the blade-guide make Pezzolato machines Mini Profi and Timber Queen very productive, even when sawing hard wood with bark.

Pezzolato machines are **strong, durable and designed for easy operation and simple maintenance**, to obtain optimal working cycles and a good production capacity.



What considerably improves the output of new MINI PROFIS are:

- The **dimensions of the machine's head** (allowing to saw logs up to 1200 mm diameter);
- The **debarker device** (to remove pollutions out of the bark and reduce resharping cycles);
- The **strength of the blade** itself and the **"Bicoupe" technology** (allowing to saw back and forth).

## Accessories

Accessories can be supplied, upon request, to satisfy any users' need and to customize the machines according to different requirements:

### Unloading belt

A motorized unloading rubber faced belt, hydraulically height adjustable, can be mounted on the rear end of the machine, for easy board removing from the machine.



### Laser beam (available on stationary machines only)

The green laser beam is set by the operator on the trunk, in order to align it and to visually define the first cut.

The blade automatically reaches the laser beam.

### Log loading station and board removing system

The log loading station with moveable loading bars, the board removing system (it reaches the cutting table, collects planks and conveys them to further working), rolling and lifting tables, chain cross conveyors and separating tables converts a sawmill to a complete sawmill line.



## Why choose Pezzolato machines?

Strong mechanical knowledge and experience that qualify the design and construction of all machines, certified quality system, attention to customer requirements, large investments in R&D: are some of the reasons that Pezzolato S.p.A. distinguishes itself from competitors on the world's markets.

Three production lines:

- **GREENLINE:** Disc and drum chippers, shredding, grinding and turning machines, sieves for the compost production;
- **REDLINE:** Machines and plants for preparation of firewood;
- **PLANKLINE:** Integrated sawmill systems



COMPANY WITH QUALITY MANAGEMENT  
SYSTEM CERTIFIED BY DNV  
= ISO 9001:2008 =

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RESELLER'S RESERVED AREA

The progress and constant research at top levels, through time may lead to modifications of technical data and the descriptions contained in this leaflet, of which Pezzolato S.p.A. is not obliged to immediately forewarn all interested parties.