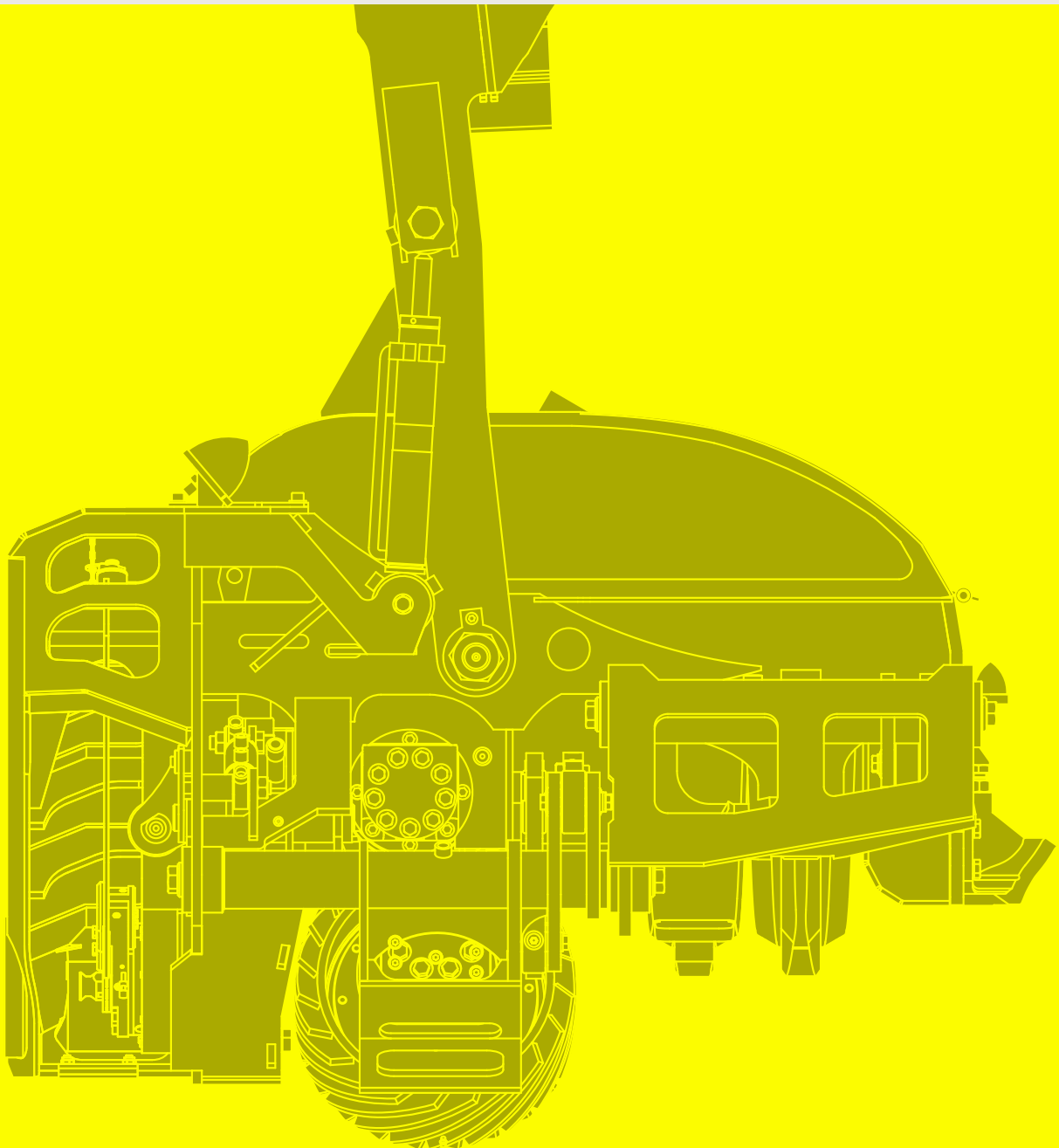


Monra 600PB

Forestry Processing Head



We were born repairing machines.

We grew by designing them so

they don't fail.

CONTEXT OF USE

Modern forestry operations require machinery capable of working continuously in complex environments: steep slopes, uneven terrain, and high-density species such as eucalyptus.

In this context, machine reliability and its ability to maintain production pace without interruptions become key factors for profitability and operational efficiency.

The Monra 600PB® is specifically designed to respond to these conditions: a processing head engineered to perform efficiently in intensive forestry operations.

OPERATIONAL CHALLENGES



High resistance of certain species

In species such as eucalyptus, the high density of the wood requires structural systems and hydraulic components capable of withstanding continuous stress without performance loss.



Constant mechanical stress

During forestry processing, machinery is subjected to repeated cycles of cutting, feeding, and handling, generating wear in structural, hydraulic, and transmission components.



Demanding working environments

Forestry operations are typically carried out under complex environmental conditions: humidity, mud, steep slopes, and limited maintenance access.



Risk of operational downtime

Each machine stoppage directly impacts productivity, causing logistical delays and increasing operational costs.

PROPOSED SOLUTION

The MONRA 600PB® is a forestry processor developed to handle intensive processing operations in hardwood, combining structural robustness, highly reliable hydraulic systems, and a design focused on operational continuity.

Its mechanical architecture ensures stable performance even under demanding working conditions, guaranteeing efficient operating cycles and high component durability.

Structural robustness

The machine's mechanical architecture is designed to withstand continuous workloads, reducing deformation and premature wear in structural components.

Stability in complex conditions

The machine maintains stable performance on uneven terrain and in adverse environmental conditions, facilitating operator work.

Hydraulic reliability

The hydraulic system ensures efficient and stable force transmission, enabling consistent work cycles even under high load conditions.

Heavy-duty mechanics

Built with high-resistance materials to withstand intensive work cycles in forestry environments.

Component durability

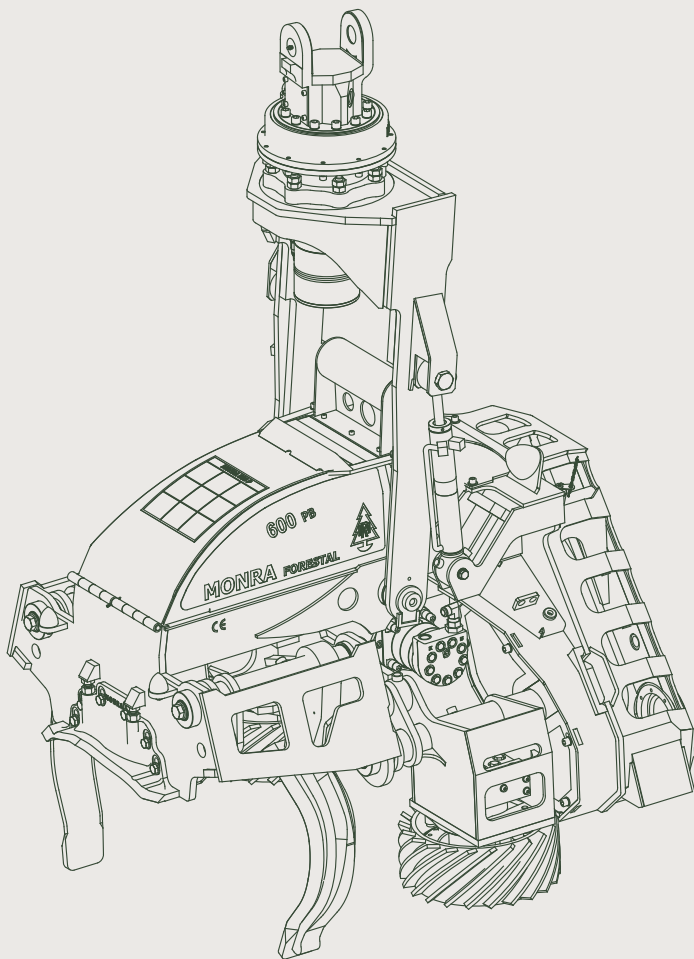
The use of high-quality components and robust construction increases machine lifespan and reduces the frequency of maintenance interventions.

Eucalyptus wood processing

Specifically designed for high-density species, enabling efficient processing in intensive forestry operations.



TECHNICAL SPECIFICATIONS



Saw system

Method	Cross-cutting chainsaw
Output power	40 kW
Chain type	404
Bar length	670 mm
Maximum cutting diameter	600 mm
Chain speed	43 m/s
Chain oil tank capacity	8 L
Tensioner	Automatic hydraulic
Saw motor	Parker

Feeding system

System	3 hydraulic feed rollers
Feed speed	0–6 m/s (depending on base machine flow rate)
Feed force	28 KN
Roller motors	Danfoss

Weights and dimensions

Weight with rotator	1,350 kg
Length	1,602 mm
Maximum width	1,500 mm
Height with rotator	1,830 mm

Hydraulic system

Working pressure	300 bar
Minimum oil flow	350 L/min
Hydraulic valve block	Parker
Recommended base machine	20 - 30 T

SYSTEMS

Measurement

Encoder with high-strength 8 mm inductive sensors.

Accurate length measurement is carried out by a hydraulically controlled measuring wheel. Diameter measurement is performed by the feed rollers, while pressure on the stem is continuously monitored.

The measuring system provides real-time information on stem diameter and length, enabling the automatic cutting of logs of different diameters into various lengths for maximum timber recovery. In addition, it continuously records the volume of processed timber.

Delimbing

The delimbing system consists of an adjustable top knife mounted on the frame and four hydraulically controlled knives surrounding the stem. Manufactured from high-quality steel, they provide excellent strength and durability.

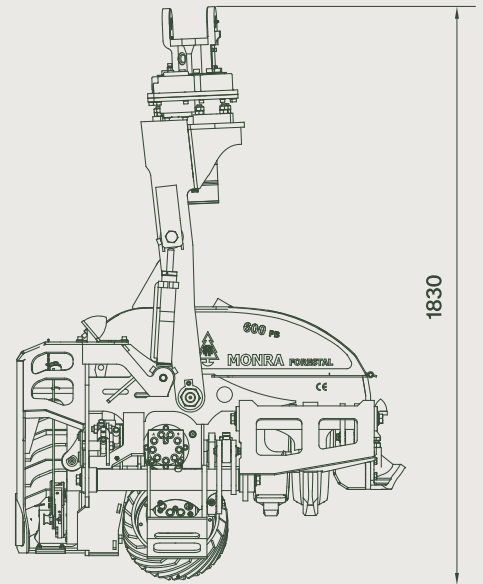
Electronics

Automation system specifically designed for this head, featuring a microprocessor-based control unit for reliable operation and measurement. It includes a touchscreen display with automatic brightness control. Communication is carried out via CAN bus.

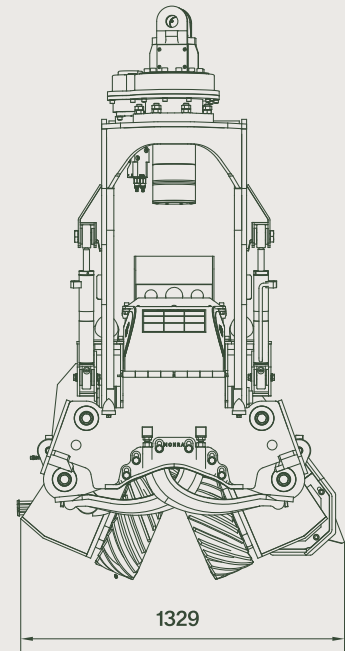
The Monra Nmon800 electrical system allows operation with different operators and timber species, providing excellent versatility.

Flow requirements are electronically managed according to the head's demand through fluid control, resulting in considerable fuel savings and improved oil temperature management.

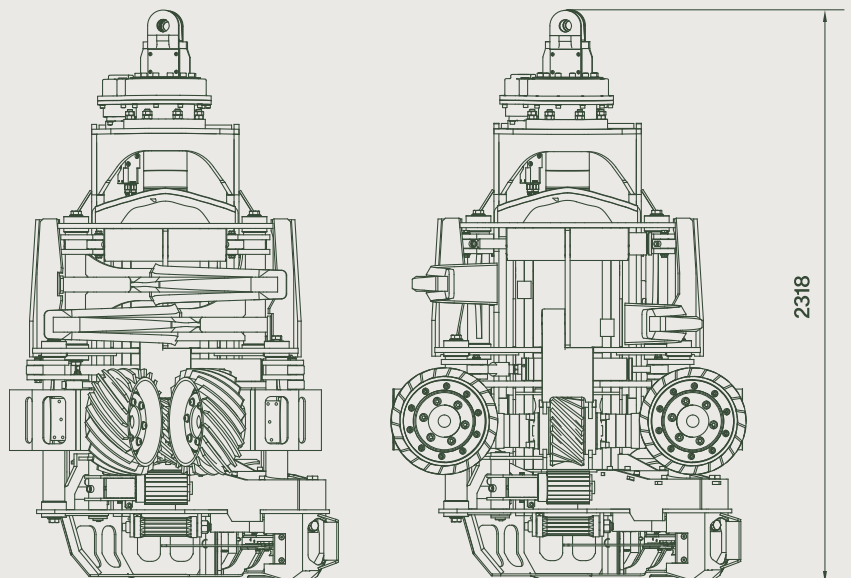
FRONT VIEW



SIDE VIEW



BOTTOM VIEW



OPTIONAL EQUIPMENT

Indexator Rotator or Continuous Rotator

DESIGN

- Our engineering department designs and calculates all components.
- All welding is carried out by highly qualified and certified personnel.
- Components are manufactured using high-precision CNC machinery.
- Once assembly is complete, the unit is fully certified.



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ISO 9001
LL-C (Certification)

Our company implements ISO 9001 quality control standards, ensuring strict quality procedures throughout the entire manufacturing process.



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