Marrari AUTOMAÇÃO

DATASHEET
LOG SORTING · SAWMILL YARD EN

Log X

Log sorter by diameter and length

Measures each log without contact and sorts it by class, so the right raw material goes to each cut.



0.5 cm	3.5 m	1,000 mm	250
measuring resolution	curtain range	measuring field	encoder pulses

01 WHY USE IT

Every log in the right place, no guesswork.

Better yield

Logs sorted by class give more sawn timber and less waste.

Non-contact measuring

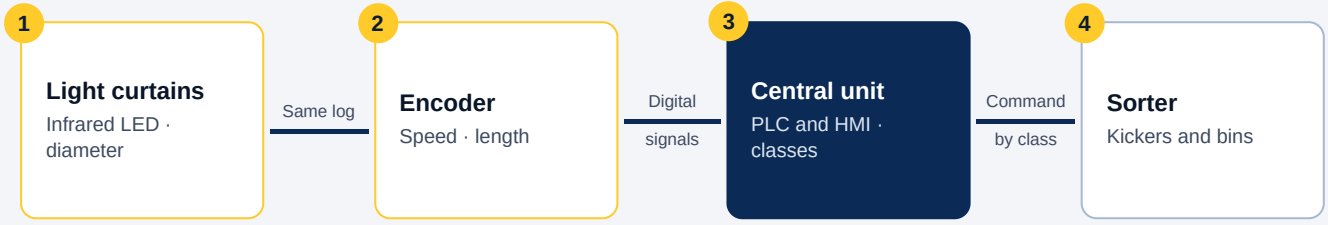
Light curtains measure diameter and length while the log moves.

Yield control

Log count per class, to plan purchasing and production.

02 HOW IT WORKS

Infrared light curtains read the diameter and an **encoder** follows the log's travel to measure its length. The central unit compares it with the programmed classes and drives the sorter.



The log passes through the light curtains; the system measures diameter and length, assigns a class and fires the right kicker.

BENEFITS

More than sorting logs

The sorter helps the sawmill gain in:

- Cutting efficiency and quality
- Process and cost control
- Raw-material yield
- Safety, with less manual handling

03 COMPONENTS AND SPECIFICATIONS



Central unit

Power supply	95 to 240 Vac, 50/60 Hz · 200 W
Temperature	Up to 50 °C
Communication	RS232 · RS485

Sensors

Light curtains	Infrared LED · range 0.1 to 3.5 m · field 400 to 1,000 mm
Resolution	0.5 cm · 5 mm beam spacing
Encoder	2 channels · 250 pulses per turn

04 DATA AND SERVICES

Sorting
By diameter and length
Classes set on the HMI to match the sawmill's cuts.

Data shown
On the HMI
Diameter and length of every log, count per class.

Market needs
The right cut
Sort raw material by the product the customer orders.

Prevention
Fewer failures
Off-size logs set aside before they reach the saw.

Yearly maintenance
Performed by Marrari
Software update and check against Marrari standards, once a year.

Warranty
6 months
Made in Brazil, with support and training from the after-sales team: posvendas@marrari.com.br.

General specifications

Application	Log yards and sawmills	Field	400 to 1,000 mm
Measurement	Light curtains, non-contact	Encoder	2 channels · 250 pulses
Quantities	Diameter and length	Power supply	95 to 240 Vac · 200 W
Resolution	0.5 cm	Temperature	Up to 50 °C
Range	0.1 to 3.5 m	Ports	RS232 · RS485