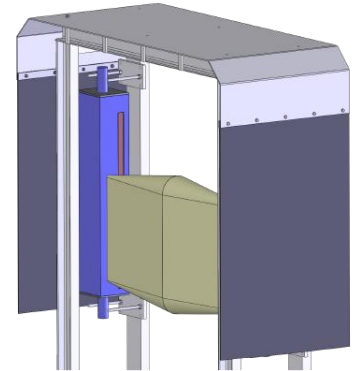


JORO-sonar

Efficiency by simplicity

DATA SHEET



Maximum accuracy



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Information

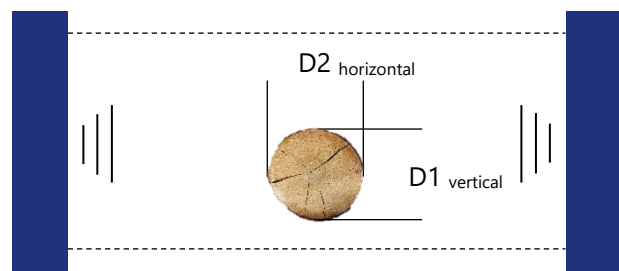
Wood processing
electronics

Log optimizer

Software for sawmills

Measuring principle of JORO-sonar

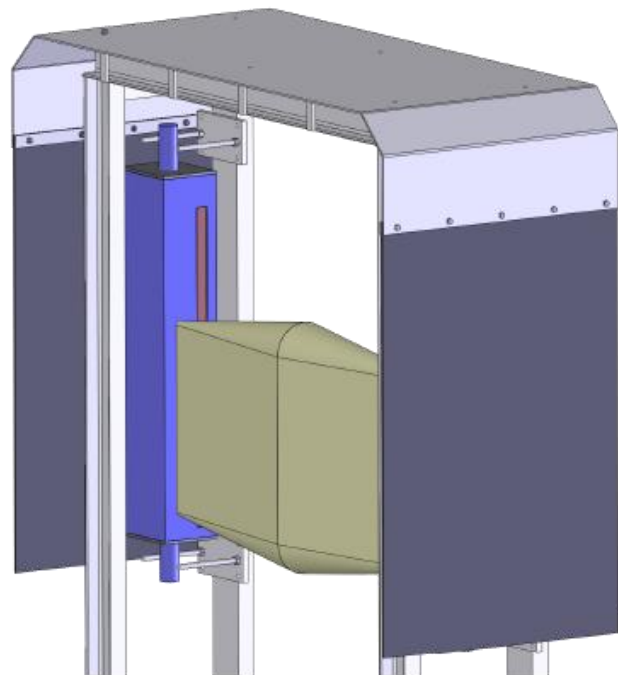
The scanner works with a digital signal processor (DSP). As the infrared scanner has a high frequency (200Hz), an exact recognition of the target and a direct coordination of log diameters to the log length can be done. Filtered scanner data are sent to the host computer via serial industrial interface (RS485).



scheme of the 2D-scanner

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is a 2D-scanner including an optoelectronic and an ultrasonic unit. Having the possibility of scanning two diameters without interruption of the conveyor is the big advantage of this system. Using the light-shadow principle of the infrared scanner, the vertical diameter D1 is measured. The ultrasonic unit measures the distance and calculates the horizontal diameter D2.



toughness and stability due to many years of experience

JORO-sonar

Function

LCD display

the status is displayed permanently,
thus guaranteeing
an easy configuration
and a continuous function control

Integrated reference sensor

environmental influences are
compensated and balanced
continuously

Infrared scanner unit

Ultrasonic scanner unit



Environmental influences like temperature, air pressure and humidity will be compensated with an additional reference sensor. Therefore, the self-verifying unit gains a temperature range from -25°C up to +50°C (without icing of the ultrasonic sensors).

Scanner

✓ scan range

✓ resolution

✓ repeatability

✓ frequency

✓ temperature range

Infrared

500, 750, 1000, 1250, 1500 mm

1mm

+/- 1mm

200 measurings/sec.

-25°C ... +50°C

Ultrasonic

500 ... 1500 mm

2mm

+/- 2mm

100 measurings/sec.

-25°C ... +50°C