



JÖRG

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*wood processing electronics
log optimizer software for sawmills*

JORO-sonar

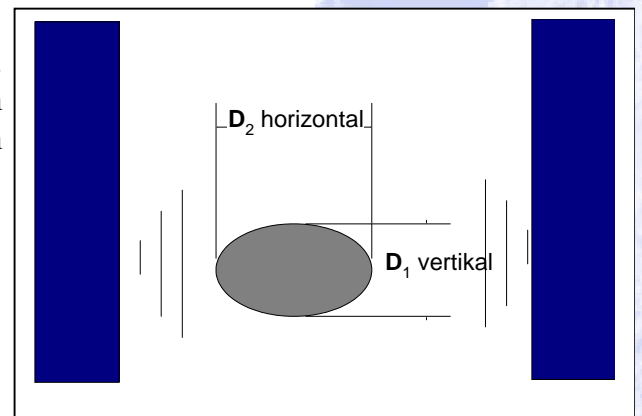
JORO-sonar is a 2D- scanner. Including an opto-electronic and an ultrasonic unit. The advantage of this system is the possibility of scanning two diameters without interruption of the conveyor. The infrared scanner works after the light-shadow-prinzip and measures the vertical diameter D_1 . The ultrasonic unit measures the distance and calculates the horizontal diameter D_2 .



principle

The scanner works with a digital signal processor (DSP). Through the fast infrared-scanner (200Hz) we have an exact recognition of the target and a direct coordination of log -diameters to the log-length.

A serial industrial interface (RS485) sends the scanned and filtered datas to the host computer.



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If others can't - WE CAN !



LCD display
 an actual status display
 garantees an easy configuration and
 a continued function control

Infrared scanner unit

Ultrasonic scanner unit
 Reference integrated
 compensates the
 envireonment influences



Environmental influence, like temperature, air-pressure and humidity, will be compensated with an additional reference sensor. The resulting temperature range therefore is - 25 degrees centigrad to + 50 degrees centigrad (without icing of the ultrasonic-sensors).

In connection with an encoder the scanner is „eichfähig“ in Germany.

Features :

Scanner	Infrared	Ultrasonic
Scan range	750,1000,1250,1500mm	750 –1500mm
Scan resolution	1 mm	2 mm
Repeatability	+/- 1 mm	+/- 2 mm
Scan frequency	200 scans / second	100 scans / second
Temperature range	-25 to + 50 degrees centigrad	-25 to + 50 degrees centigrad