

PULP & PAPER
**ONLINE DATA FOR
PROCESS CONTROL**

Metris LogSCAN TECHNOLOGY

ANDRITZ

ENGINEERED SUCCESS



IMPROVED DECISION MAKING

ACCURATE ONLINE DATA
IMPROVES PROCESS
CONTROL

ONLINE DATA OF LOG FLOW

CONTINUOUS ONLINE DATA
OF LOG FLOW

MINIMIZED WOOD LOSSES

OPTIMIZED RAW MATERIAL
USAGE AND IMPROVED
EFFICIENCY



Metris LogSCAN

Metris LogSCAN is an image processing system that continuously measures the quantity of bark on the logs exiting the debarking drum. It can also measure the log flow cross section area. The system processes the data in real time, enabling the wood room operators or the control system to run the debarking process so that the cleanliness of the logs remains at an optimum level.

LogSCAN is typically utilized in connection with the debarking process optimization package. Consistent cleanliness provides savings in raw material costs and also in pulp pre-treatment. Small reductions in the amount of raw material lost and/or chemical consumption can mean large annual savings. Furthermore, the end product quality improves because the logs are neither over- or under-debarked.

CUSTOMER CHALLENGE

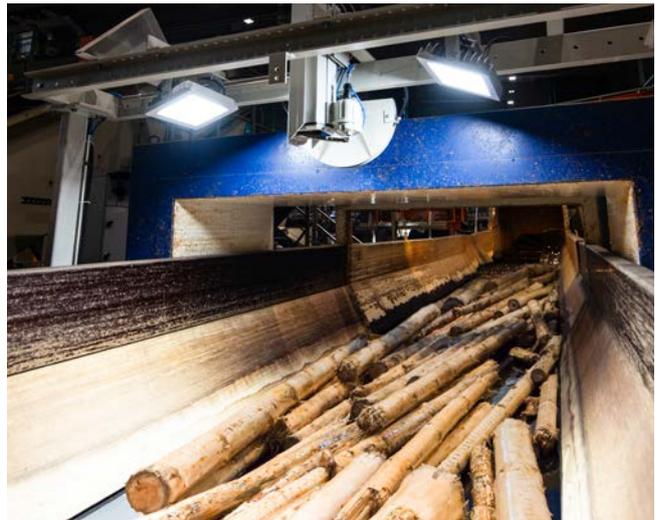
If the debarking degree is too high compared to the demand, the process produces higher wood losses. But if the debarking degree is too low, the extra amount of bark in chips necessitates extra actions further in the process.

ANDRITZ SOLUTION

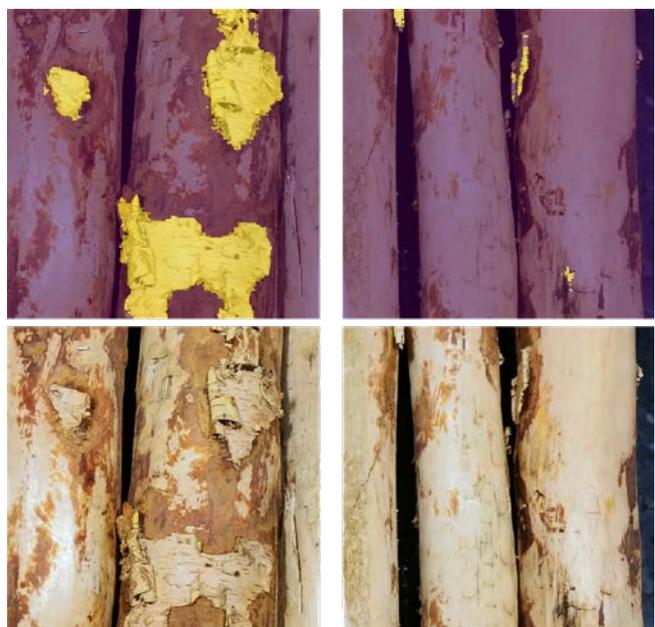
A measurement system based on image processing for measuring the debarking (cleanliness) degree of logs, made suitable for all wood species by neural network-based machine learning capabilities.

BENEFITS

- Higher quality of end product
- Reliable debarking degree monitoring (not dependent on operators)
- Real-time debarking process optimization
- Consistent cleanliness provides savings in raw material costs and also in pulp pretreatment



LogSCAN installed on a log belt conveyor



Neural network analysis

Scanning results

	Type 1	Type 2	Type 3	Type 4
Amount of debarked area related to log area (%)		•		•
Logs on belt (%)		•		•
Log feed cross section on belt (m ²)			•	•
Infeed production, log bundle cross section (m ²)	•			





ANDRITZ Autonomous Wood Processing – pioneering the digital revolution



ANDRITZ has built advanced wood, chip and bark processing plants and equipment for the pulp & paper, panelboard and power industries worldwide. We also provide parts, repairs, maintenance and modernization services throughout the world.



ANDRITZ AUTONOMOUS WOOD PROCESSING SOLUTIONS

We believe in getting the most out of wood raw material, we believe in sustainability. The way we challenge the seen inefficiencies in mills, is making our products meaningful, future proof, modular, simple to use and easy to maintain. We just happen to make success stories to our customers.

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