



PULP & PAPER

# ONLINE DATA FOR PROCESS CONTROL

Metris BarkSCAN TECHNOLOGY

**ANDRITZ**

ENGINEERED SUCCESS

A 3D rendering of a biomass processing plant, featuring a long conveyor belt system supported by metal pillars, with various processing units and structures. The scene is overlaid with a network of white lines and dots on a dark blue background, suggesting a digital or data-driven environment. Three blue circular callouts are positioned around the plant, each containing text about process improvements.

## IMPROVED DECISION MAKING

—  
ACCURATE ONLINE DATA  
IMPROVES PROCESS  
CONTROL

## MINIMIZED WOOD LOSSES

—  
OPTIMIZED RAW MATERIAL  
USAGE AND IMPROVED  
EFFICIENCY

## ONLINE DATA OF BARK FLOW

—  
CONTINUOUS ONLINE DATA OF  
WHITE WOOD QUANTITY IN  
THE BIOMASS FLOW



# Metris BarkSCAN

Metris BarkSCAN is an image-processing system that continuously measures the quantity of good wood in the bark on the bark belt conveyor. 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 amount of good wood in the bark can be minimized.

The reduced wood loss brings savings in the raw material costs. Metris BarkSCAN is typically utilized in connection with the debarking process optimization package.

## CUSTOMER CHALLENGE

Raw material costs can be high if the debarking process is not optimized and the wood losses are high. Manual wood loss measurement is often not adequate and does not give fast enough data to control the process efficiently.

## ANDRITZ SOLUTION

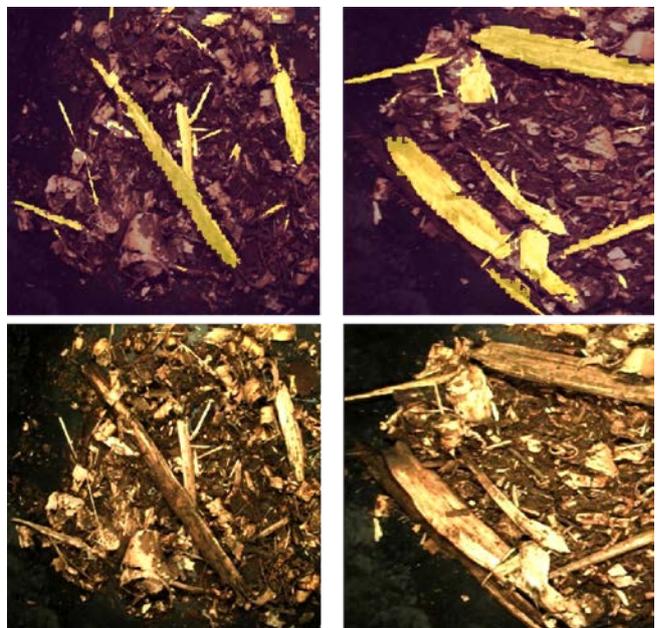
A measurement system based on image processing for measuring wood losses on a bark conveyor to give an estimate of process status: i.e. the trend of white wood loss on bark conveyor. Neural network-based machine learning capabilities makes it suitable for all wood species.

## BENEFITS

- A small reduction in the amount of lost raw material results in notable annual savings
- Enables real-time debarking process optimization when connected to the main control system
- Increases the stability and uptime of the debarking process



BarkSCAN installed on a belt conveyor



Neural network analysis

## Scanning results

	ASB301	ASB302	ASB303	ASB304
White wood in bark (%)	•		•	
Bark and wood on belt (%)	•		•	
Bark cross section on bark conveyor (m <sup>2</sup> )		•	•	
Bark storage volume & shape measurement (m <sup>2</sup> )				•





# 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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