



# PulpEye FIBER PROPERTIES ANALYZER

Fiber module

**ANDRITZ**

# Fiber module for frequent and reliable fiber data

The fiber module is a fiber classification module working according to TAPPI/ISO standards.

The demands on pulp and paper quality have increased over the years. With the varying quality of wood supply in today's mills, monitoring fiber properties has become increasingly important. Fiber properties have a significant impact on the final product, and need to be monitored to maintain even quality. Frequent and reliable quality inspections enable pulp manufacturers to control and optimize pulp quality.

Data from the fiber module can be used for quality inspection, fault detection, raw material control, product development, and quality assurance for clients.

## **RAW MATERIAL CONTROL**

The fiber module detects variations in the wood supply.

## **QUICK RESULTS**

With a frequency of up to once every three minutes, the fiber module provides frequent and reliable results.

## **RAPID SAMPLE PROCESSING**

The fiber module analyzes 100,000 objects in 30 seconds, delivering accurate and detailed information about the fiber properties.

## **MINIMIZED RISK OF PULP DEGRADATION**

Continuous monitoring of the final pulp fiber properties before being transferred to the pulp dryer minimizes the risk of pulp degradation.

## **EARLY DETECTION BEFORE PAPER MACHINE**

Problems with varying fiber quality can be detected as early as the the pulp mill and resolved before reaching the paper or board machine. This allows many quality issues to be fixed or eliminated more quickly, including web breaks.



The fiber module is integrated in the PulpEye Fiber Properties Analyzer cabinet.

## PulpEye – FIBER MODULE

Data from the fiber module can be used separately or combined with data from other PulpEye Fiber Properties Analyzer like the CSF module to classify pulp quality accurately and frequently.

### OPERATION

The Fiber module is integrated into PulpEye Fiber Properties Analyzer as a separate module. The module can easily be controlled from the PulpEye Fiber Properties Analyzer user interface.

### FUNCTIONS AND FEATURES

The Fiber module measures the fiber properties of the sample. An advanced camera system measures 100,000 objects in 30 seconds, giving accurate and rapid results.

### OUTPUT

- Average unweighted fiber length
- Average weighted fiber length (mm)
- Average fiber width (mm)
- Average fiber curl (%)
- Average fiber kink
- Average fiber coarseness (mg/m)
- Fines content (%)
- Macro fibrillation
- Detailed distribution for fiber length
- Detailed distribution for fiber width
- Detailed distribution for fiber curl

### PARTS

- Camera unit including smart camera, LED light source, optics and flow cell
- Electronics box
- All parts are mounted into the PulpEye Fiber Properties Analyzer base unit.



Results from fiber module.



The fiber module is using a high resolution smart camera for image analysis.



High resolution camera image.

**GET AN OVERVIEW**  
PulpEye Fiber  
Properties Analyzer





## CONTACT US FOR MORE INFORMATION

Advancing autonomous operations is our vision and is becoming an integral part of industrial processes. ANDRITZ is at the forefront of this transformation, leveraging digital innovations along with deep operational and technical expertise to improve process efficiency, quality management, and production reliability and availability.

We focus on developing autonomous pulp mills and process optimization, to support efficient and sustainable operations by combining automation, electrification, intelligent instrumentation, and digitalization to create measurable value throughout the full life cycle and the entire value stream.

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