



**PULP & PAPER**

# GETTING THE MOST OUT OF YOUR SCREENS

Metris ScreenEKG  
DIAGNOSTICS TECHNOLOGY

**ANDRITZ**

ENGINEERED SUCCESS



## MAINTAINS CHIP QUALITY

—  
SCREENING PERFORMANCE  
OPTIMIZATION KEEPS CHIP  
QUALITY AT A HIGH LEVEL

## PREVENTS DAMAGE

—  
ONLINE CONDITION  
MONITORING PREVENTS  
SERIOUS DAMAGE AND  
PREDICTS SERVICE  
NEEDS

## GIVES PEACE OF MIND

—  
HELPS OPERATORS BY  
PROVIDING INFORMATION  
AND PREDICTING  
MAINTENANCE NEEDS



# Metris ScreenEKG

By installing ANDRITZ's unique multi-monitoring solution ScreenEKG at a gyratory chip screen, the screening process can be optimized to achieve trouble-free operation. If the condition of the screen is monitored, it is possible to predict and then avoid operating issues, providing significant cost savings within a short period of time.

## CUSTOMER CHALLENGE

The ANDRITZ CS chip screen is often a vital part of the mill's wood processing chain and must be operated safely and reliably to ensure that there is no danger to the operator and always consistent chip flow to the process without long downtimes. Unpredictable screen component breakages can cause severe damage resulting in long shutdowns and thus, loss of production. In addition, chip overflows can cause financial losses as well.

## ANDRITZ SOLUTION

ANDRITZ has developed the unique ScreenEKG monitoring system to prevent unpredictable breakages and ensure reliable operation of the screen, providing added value for our customers.

## BENEFITS

- Enhances safety
- Maintains equipment reliability
- Helps to avoid unplanned maintenance shutdowns and production losses
- Reduces the risk of fires and other such incidents
- Reduces financial risk resulting from accept chips being lost due to chip overflow



ANDRITZ CS gyratory chip screen

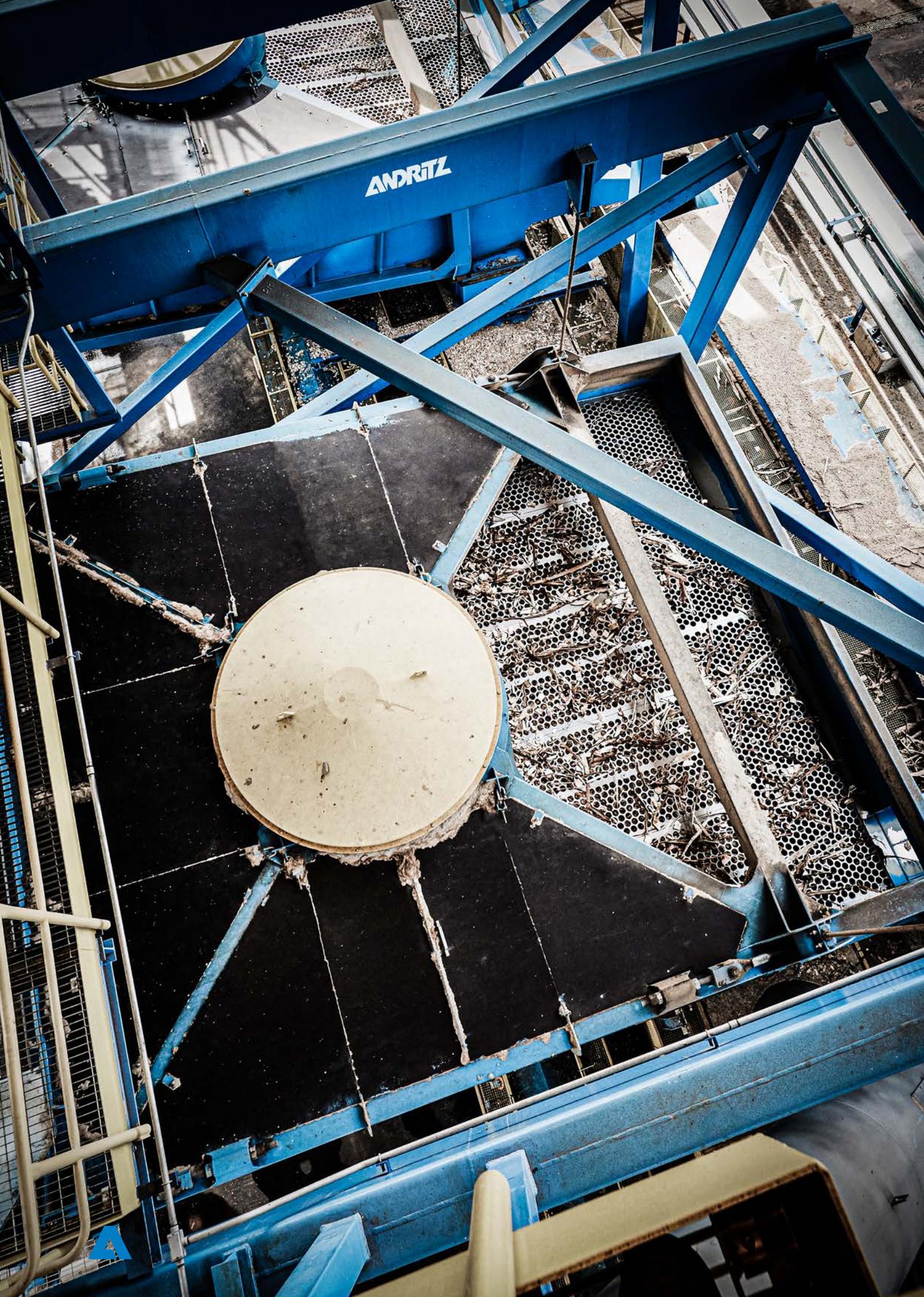


Chip screen in operation

Features	C	L
Detection of damaged suspension wires (load cell)		• System monitors each individual screen suspension wire in real time. The sensors detect any signs of breakages in the wires.
Detection of damaged suspension wires (camera)	•	System monitors screen body movement with a camera and detects signs of breakages in the wires.
Online screen load monitoring	•	• Indicates the running capacity level of the screen. System detects top deck clogging or overflow to assist operator with optimum adjustment of the screen feed rate.
Online detection of suspension wire load and load distribution		• Blockage of the screen plates may cause an uneven load on the suspension wires. This analysis tells to operator to check the condition of the screen plate.
Efficient online screening time indicator	•	• This function checks the status of the screen and calculates the screen's uptime.
<b>Optional features</b>		
Online condition monitoring for bearings		• This function monitors the condition of the bearings at the screen motor and vibrating shaft.
Screen body position monitoring (camera)	•	The position (path) of the screen body is monitored by a smart camera.

C = camera-based system L = load-cell-based system





# 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.

### **EUROPE**

ANDRITZ Oy  
Lahti, Finland  
p: +358 20 450 5555  
woodprocessing@andritz.com

### **SOUTH AMERICA**

ANDRITZ Brasil Ltda.  
Curitiba, Brazil  
p: +55 41 2103 7611  
woodprocessing@andritz.com

### **NORTH AMERICA**

ANDRITZ Inc.  
Alpharetta, GA, USA  
p: +1 770 640 2500  
woodprocessing@andritz.com

### **ASIA**

ANDRITZ (China) Ltd.  
Foshan, China  
p: +86 757 8296 9222  
pulpandpower.cn@andritz.com

**ANDRITZ.COM**



**ANDRITZ**

All data, information, statements, photographs and graphic illustrations in this leaflet are without any obligation and raise no liabilities to or form part of any sales contracts of ANDRITZ AG or any affiliates for equipment and/or systems referred to herein. © ANDRITZ GROUP 2022. All rights reserved. No part of this copyrighted work may be reproduced, modified or distributed in any form or by any means, or stored in any database or retrieval system, without the prior written permission of ANDRITZ AG or its affiliates. Any such unauthorized use for any purpose is a violation of the relevant copyright laws. ANDRITZ AG, Stattegger Strasse 18, 8045 Graz, Austria. ScreenEKG 1.0/06.2022 EN/A4