



PULP & PAPER

OPTIMIZE THE RUNNABILITY OF YOUR SCREEN AND SAVE COSTS

Screen Booster BEARING UNIT UPGRADE



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ENGINEERED SUCCESS

Screen Booster bearing unit upgrade

The Screen Booster bearing unit upgrade is one of the Screen Booster modules and a smart solution to boost your screen and maximize your profits.

Screen Booster SMART SOLUTIONS

Introducing Screen Booster – the modular upgrade solution for optimum screening performance. Boost your screen and maximize your profits. With a perfectly running screening room, you can save a lot of money through reduced fiber losses, lower maintenance requirements, improved screening efficiency, and savings in energy costs. With decades of experience in the development of our own screens, as well as the optimizations of thousands of competitor screens, ANDRITZ has developed the Screen Booster concept to realize the full potential of your screen – no matter the make or model.

BEARING UNIT UPGRADE

With the Screen Booster bearing unit upgrade, ANDRITZ ramps up the operating lifetime expectancy of your screens dramatically. Every bearing unit is customized to fit into your screen. The optimized technical design, available for most common makes and models, is the key to extending the lifetime of your bearing unit.

The bearing unit upgrade is specifically designed for:

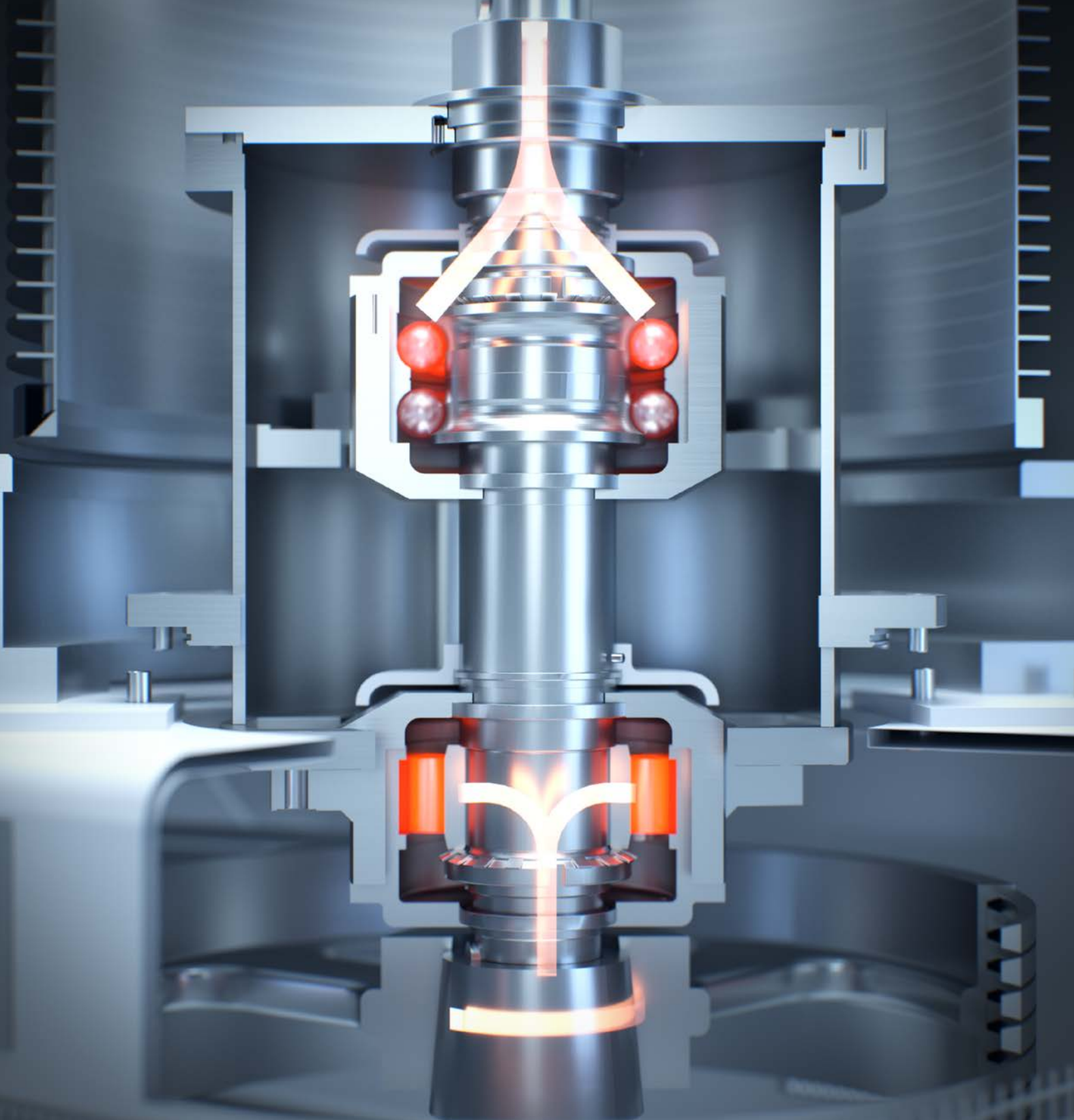
- High production rates
- High tip speeds
- High motor loads
- High temperatures

REALIZE THE FULL POTENTIAL OF YOUR SCREEN AND PROFIT DIRECTLY FROM

- Longer bearing unit lifetimes
- Extended maintenance intervals
- Minimized maintenance costs
- Reduced spare parts costs



1 Deflector 2 Ball bearing 3 Shaft package 4 Enlarged opening 5 Roller bearings 6 Splash guard



Optimal absorption of radial and axial forces

PERFECT BALANCING OF RADIAL AND AXIAL FORCES

The top bearing is subject mainly to axial loads from the weight of the shaft and rotor. In our optimized design, the inclined ball bearing is used as the fixed bearing to absorb all axial forces at their origin. Relieved of any axial forces, the lower bearing now easily

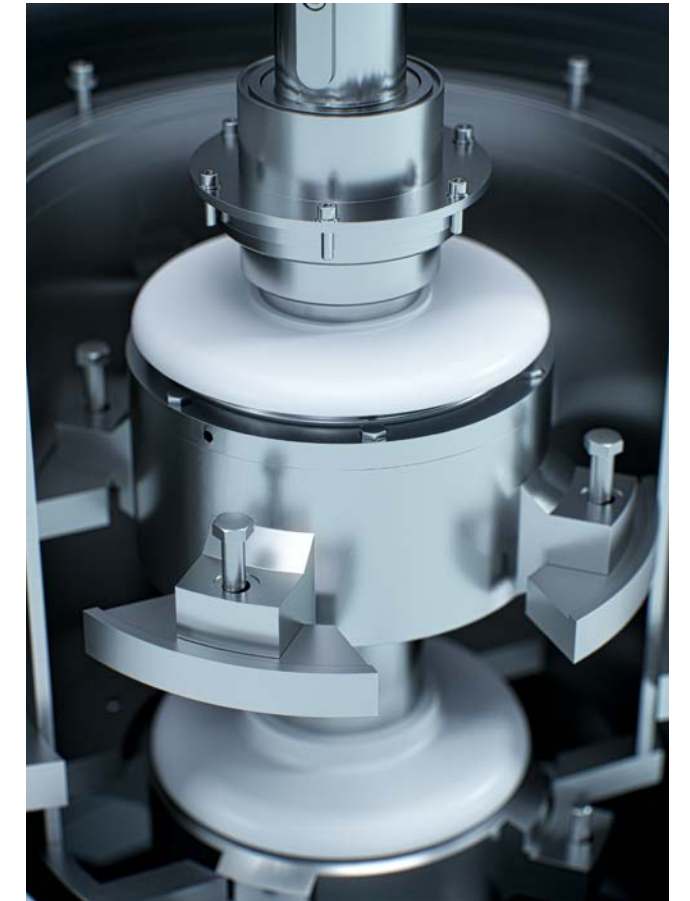
absorbs the remaining radial load generated by the motor below. Utilized as a floating bearing, the cylindrical roller bearing entirely compensates any thermal expansion of the shaft. By perfectly balancing radial and axial forces, the innovative design significantly extends the durability of the bearings.



Easy access to the bearings

EASY ACCESS TO THE INDIVIDUAL BEARING

The bolted shaft package provides easy access to the individual bearings. Protecting the bearings from leakage water is crucial to guarantee maximum screen performance. The bearing unit upgrade features a double protection system to reliably shield the bearings from contamination.



Bolted design for easy assembly and disassembly

QUICK DISMANTLING OF THE SHAFT PACKAGE

To minimize maintenance time, the shaft package and bearing frame are designed as separate units. The bolted construction, with an easy cross-fixation, allows quick reassembly of the shaft package without removing the bearing frame. Only one shaft package is required as a spare part, thus reducing spare parts inventory and maintenance costs.



Reflector and large openings for leakage water to protect the bearings

ROTATING REFLECTORS FOR LEAKAGE PROTECTION

Double-acting mechanical seals are used as standard to prevent water from entering the bearing frame, thus reducing the risk of leakage to a minimum.

Additionally, rotating reflectors protect the individual closed bearing housings inside the frame in the event of a potential seal failure.

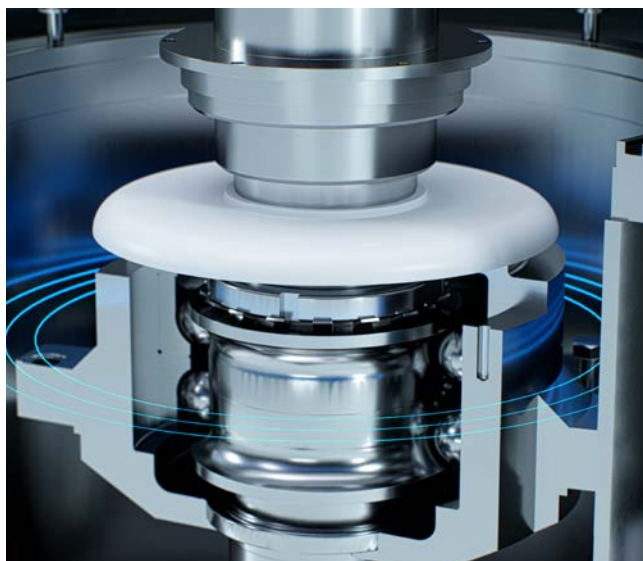
Enlarged openings between the shaft package and the bearing frame ensure an unhindered outflow of leakage water and avoid plugging of drainage pipes as well as preventing water from penetrating into the bearing housing.



Splash guard to protect the pulley

SPLASH GUARD FOR PROTECTION AND EARLY WARNING

Leakage water and grease are collected and discharged by a customized splash guard to protect the pulley below. The splash guard provides an early warning system for seal failure to ensure optimized maintenance intervals and optimum protection of your bearing unit.



Online sensors to monitor the bearing condition

VIBRATION AND TEMPERATURE SENSORS

Additionally, vibration and temperature sensors for online monitoring are available to further reduce the maintenance downtime and avoid unexpected shut-downs caused by broken bearings.



AUGMENTED REALITY CONTENT

To view videos in a more direct and lively way, augmented reality has been added to some parts of this brochure. Download our ANDRITZ AR APP on our website or in the AppStore/PlayStore!

**SCAN THE MARKED PAGES AND
EXPERIENCE THE ENHANCED CONTENT.**



EUROPE

ANDRITZ Fiedler GmbH
Weidener Strasse 9
93057 Regensburg, Germany
p: +49 941 6401 0

ANDRITZ Oy
P.O. Box 500
Kyminlinnantie 6
48601 Kotka, Finland
p: +358 20 450 5555

ASIA

ANDRITZ (CHINA) Ltd.
9 Tian Bao Road, West City
Industry Zone, Chancheng District
528000 Foshan, China
p: +86 757 8296 9222

PT. ANDRITZ
VA TECH Building, 3rd floor
Jl. Talang No. 3, Pegangsaan
10320 Jakarta, Indonesia
p: +62 21 3905001

NORTH AMERICA

ANDRITZ Inc.
One Namic Place
Glens Falls NY 12801, USA
p: +1 518 793 5111

SOUTH AMERICA

ANDRITZ Chile Ltda.
Av. Gran Bretaña 4889, Lote A-15
Parque Empresarial Bío Bío
4290319 Talcahuano, Chile
p: +56 41 2243 4740

ANDRITZ.COM

screening-service@andritz.com



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