



PULP & PAPER

# REDUCE FIBER LOSSES TO A MINIMUM

Screen Booster DILUTION UPGRADE



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**ANDRITZ**

ENGINEERED SUCCESS

# Screen Booster dilution upgrade

The Screen Booster dilution 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.

## DILUTION UPGRADE

With the Screen Booster dilution rotor upgrade, available for most common makes and models, ANDRITZ reduces fiber losses, increases fiber yield, and minimizes plugging risk.

Furthermore, possible accumulations of contaminants inside the rotor are completely eliminated leading to reduced maintenance intervals.

### REALIZE THE FULL POTENTIAL OF YOUR SCREEN AND PROFIT DIRECTLY FROM

- Reduced fiber losses
- Increased yield
- Minimized plugging risk
- No accumulation of contaminants
- Reduced maintenance costs



- 1 Dilution pipe
- 2 Sealing ring



# The challenge:

## Critical thickening, high fiber losses, and short maintenance intervals

During the screening process, the stock tends to thicken towards the reject end. This becomes more critical with narrow slots, which are often needed in order to meet the required screening efficiency. Thickening leads to higher fiber losses, lower yield, and can even cause plugging.

A vortex inside the screen, created by the rotor, drags plastics and other contaminants into the center of the rotor. These particles wrap around the shaft, damaging the mechanical seal or even the complete bearing unit.



„Bird's nest“ on rotor shaft



Accumulation of contaminants

# The ANDRITZ solution:

## Smart engineering for controlled water feed and effective dilution

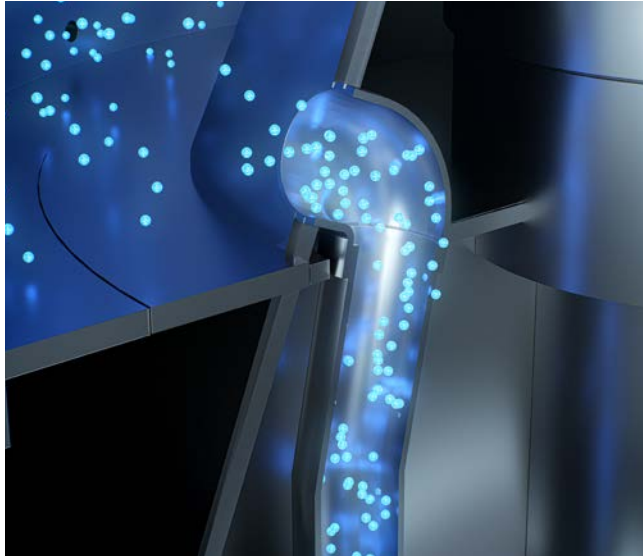
### NO CRITICAL THICKENING, REDUCED FIBER LOSSES, AND EASY MAINTENANCE

ANDRITZ has developed a dilution upgrade to reduce the reject thickening and at the same time protect the rotor interior from contaminants. Lower thickening mini-

mizes plugging risk and reduces fiber losses, thereby increasing the yield. This simple but smart solution leads to huge fiber savings and to reduced maintenance costs.



Effective dilution before critical thickening



Dilution water feed

#### **CONTROLLED WATER FEED**

Dilution water is fed into the lower part of the rotor. Sealing rings between the rotor and bearing unit maintain the overpressure inside the rotor for controlled water feed.



Dilution water entering the screen room

#### **EFFECTIVE DILUTION**

The water flows through the holes on the rotor shell into the screen room providing effective dilution already in the screening zone and avoiding critical thickening.



Clean rotor shaft

#### **ELIMINATING THE "BIRD'S NESTS"**

The overpressure prevents contaminants from entering and accumulating inside the rotor. Shut-down and cleaning intervals can be extended significantly, resulting in reduced maintenance costs.



## 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  
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