



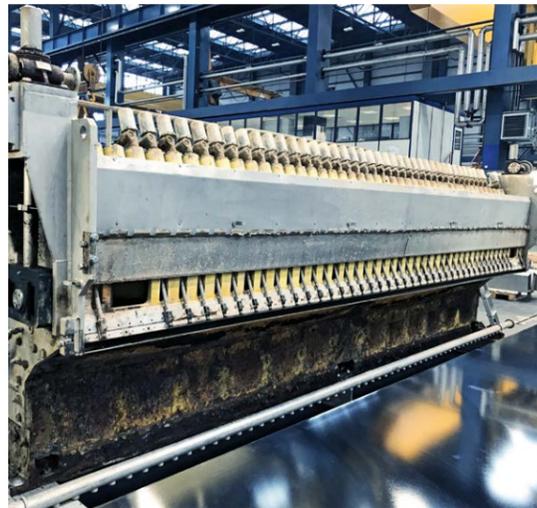
# HIGH-PERFORMANCE HEADBOX OVERHAUL

Reconditioning service for all brands

**ANDRITZ**

# Enhancing performance, extending lifetime and improving sheet quality

Headboxes for tissue, paper, and board machines work in very demanding environments: heat, moisture, and vibration.



Headbox of a paper machine before rebuild



Headbox after ANDRITZ reconditioning service

Over time, their performance deteriorates as the forces of corrosion, damage to the slice and apron lips, wear on adjustable components, and defects in the heating channels take their toll. When this happens, sheet quality and operational safety can be impacted. The decision then becomes "replace" or "recondition"?

## A COST-EFFECTIVE ALTERNATIVE TO REPLACEMENT

ANDRITZ offers an annual service to inspect, recondition and, when necessary, rebuild your headbox to restore performance, extending the lifetime of your initial capital investment.

## RESTORE YOUR SHEET PROFILE

By installing new heating channels, repairing or entirely replacing the slice and apron lips, exchanging various worn-out elements, and conducting final precise adjustment of all of these components, a stable sheet profile can be restored.

## OPERATIONAL SAFETY FOR A LONG PRODUCTION PERIOD

Heavily corroded parts, like the rear panel and the apron body, can lead to unsafe operation or unscheduled shutdowns. If such damage is detected during our annual service, the parts are replaced to ensure operational safety. Routine service checks on your paper machine should translate to high production, stable MD and CD profiles, and operational safety. That is the goal of headbox reconditioning.

## SERVICE FOR HEADBOXES

- Engineering, disassembly, re-assembly, and adjustments
- Service and repair of all movable parts and drives, and of the apron or slice lip
- Installation of new heating units, manufacture and exchange of diffuser tubes
- Repair or manufacture of new apron body, slice body, rear panel, and pond side

# ANDRITZ headbox reconditioning service for all brands of headboxes

The ANDRITZ headbox service can add several productive years to existing headboxes, restoring machine performance and improving sheet quality.

ANDRITZ is a global leader in designing and manufacturing machinery for paper production. This leadership extends to specifics of reconditioning and rebuilding headboxes - from any OEM. Reconditioning requires not only an intimate knowledge of the equipment, but also a deep understanding of the process.

During inspection, each component must be evaluated to determine whether it can still be used, or should be rebuilt or replaced. This requires experience.

## SERVICE HIGHLIGHT - LIP REPAIR

Since any damage to the slice or apron lip, even the smallest scratches, will have a negative impact on MD and CD sheet profiles, ANDRITZ offers a lip repair service as an alternative to costly replacements.

Specialists will perform all the operations, like leveling, planning, grinding, shaping, and deburring, to bring the slice and apron lips back to specifications. These operations can be performed directly on-site in your mill or in our Graz workshops, depending on the extent of the damage.

## BENEFITS

- Cost-effective alternative to replacement
- Annual inspection for safety and performance
- Restore stable sheet profiles in CD
- Safe and stable production for a long period of time
- Perfect sheet quality and formation



Headbox after ANDRITZ reconditioning service



## HEADBOX RECONDITIONING SHOWCASE

The Adolf Jass Paper Mill is one of the leading paper producers in the containerboard industry in Germany and in Europe. After many years of operation, the headbox of the PM4 – a test liner machine – at the mill in Fulda, Germany, was heavily corroded and worn. There was no immediate need for action, but as long-term operation with high equipment availability was no longer guaranteed, the customer decided upon a well-coordinated, well-planned overhaul project for this highly critical equipment.



### FROM OLD TO NEW IN NINE DAYS

ANDRITZ began its work by removing the headbox from the machine and transporting it some 700 km to the workshop in Graz, Austria. The service specialists moved quickly into action to completely disassemble the headbox, sandblast and paint all the steel parts, clean the stainless steel and bronze parts with ceramic blasting, plane and grind the slice and apron lips, and refurbish all the actuators used to adjust the profile. The machinists also manufactured a new headbox table and produced new base frames for the top-layer headbox to replace the corroded one. After assembling and adjusting all the components, the "new" headbox was brought back to Germany by truck, installed in PM4 again and put into operation. Everything was completed within the short time frame specified, and the headbox was in place on time, ready for the scheduled machine start up. All paper quality and production parameters were achieved immediately after the machine start up, and the paper from this machine met the highest quality standards.

**"ANDRITZ succeeded in fulfilling our high expectations regarding the ambitious time schedule as well as professional project handling. We were able to produce top-quality paper right after the start-up."**

**MICHAEL HABECK**

Technical Managing Director

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