PULP & PAPER
TWIN WIRE PRESS
ROLL SERVICES
ANDRITZ IS YOUR PARTNER
Highest availability and performance of production equipment is a must for today’s pulp and paper makers. In twin wire presses, the press and drive rolls play an essential part in ensuring excellent sheet quality and outlet dryness, even at the highest specific production rates. Like other key components, all twin wire press rolls require maintenance to keep them in good operational condition. During annual maintenance shutdowns, a visual inspection of all rolls in the press is mandatory. Defective rolls are identified in order to decide on the appropriate corrective measures: repair, upgrade, or exchange. The aim is to prevent safety and quality issues and to keep the machine performance up.
ANDRITZ is a high-quality roll supplier. The experience we have gathered over the decades is based on manufacturing the rolls for thousands of twin wire presses and sludge dewatering machines installed around the world, as well as for numerous paper/board machines and fast-running tissue machines.

ANDRITZ has extensive roll service expertise and is specialized in the repair, reconditioning, and upgrading of all types of rolls in twin wire presses, no matter what make or manufacturer. We have workshop facilities equipped with state-of-the-art machines and tools and can also provide experienced technicians for each roll processing and machining step.

In-house roll service

STANDARD APPROACH

- Receiving, examination
- Customer offer based on inspection report
- Repair or upgrade, including quality control
- Cleaning, preservation, packing, shipping

All rolls are checked and balanced as required. A certificate is issued for each new roll we ship, specifying the checks performed and the conditions for which each roll is warranted.

WHAT WE OFFER

- High-quality manufacturing and repairs by the original equipment supplier
- Roll cover replacement from 0 to 30 P&J
- Stainless steel-clad roll covers, smooth or grooved – as exchange or upgrade
- Repair or exchange of roll shaft
- Crown correction
- Color penetration testing
- Examination and repair report
- Nip profiler measurements on site

WEAR-RESISTANT STAINLESS STEEL CLADDING

Roll covers made of rubber or polyurethane suffer wear during operation. Stainless steel-clad rolls virtually do not wear and, therefore, do not require further maintenance. They are extremely resistant to temperature and chemicals and – as a consequence – also reduce the risk of wire wear or damage.

GROOVED, STAINLESS STEEL-CLAD ROLLS

At high production levels with increased dewatering demands, ANDRITZ recommends installing grooved rolls at various points of a twin wire press instead of smooth ones. The cover of the existing smooth rolls is removed and replaced by new, stainless steel cladding. The new cover will need to be thicker to allow for machining of the grooves.

100% STAINLESS STEEL ROLLS

As a high-end solution, we can offer rolls made entirely of stainless steel. They are completely non-corrosive.
“Roll manufacturing has been our business for decades.”

MICHAEL ROŠKER
Global Product Group Manager Dewatering Services
Roll manufacturing work steps

MACHINING OF ROLL TUBE
External machining and grinding to obtain a perfect roll surface. Internal grinding to obtain a tight-fitting roll shaft (see picture).

INSTALLATION OF ROLL SHAFT
The roll shaft is cooled down by liquid nitrogen to obtain a tight fit in the roll tube.

GROOVING OF ROLL COVER
Precise machining of the grooves is the key.

BALANCING
All rolls undergo dynamic or static balancing checks.

INSPECTION AND MEASURING
Precision checks are crucial to meet our high quality requirements.

PRESERVATION, PACKING, AND SHIPPING
Rolls are prepared for safe transport and storage.

ANDRITZ is your partner

The professionals in the workshop and repair center at ANDRITZ are experts in manufacturing, repairing, reconditioning, and improving the performance of your twin wire press rolls.

WHY CHOOSE ANDRITZ?
• One partner for all roll-related issues.
• High-grade compounds: suitable also for difficult applications.
• Solutions for a longer lifetime: stainless steel cladding can be in operation for many years.
• Services offered for all types of twin wire press rolls, irrespective of the original manufacturer.
“Our know-how from thousands of twin wire press rolls produced is your benefit.”

EWALD KULHANEK
Global Product Manager Twin Wire Press Services