



PULP & PAPER

TWIN WIRE PRESS ROLL SERVICES

ANDRITZ IS YOUR PARTNER

ANDRITZ

ENGINEERED SUCCESS



Twin wire press roll services

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.

In-house roll service

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.

STANDARD APPROACH

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

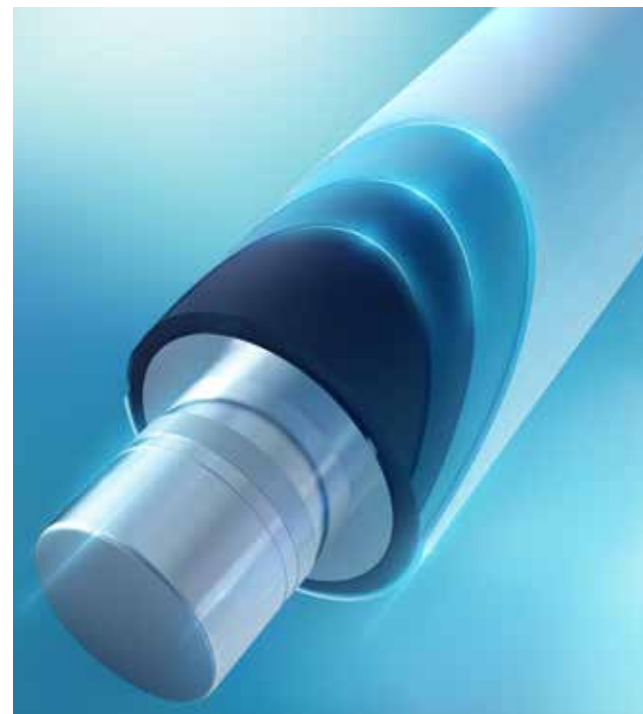
All rolls are checked and balanced as required. A certificate is issued for each new roll we ship, specifying the checks performed and the conditions for which each roll is warranted.

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

HIGH-QUALITY ROLL COVERS

ANDRITZ Fabrics and Rolls supplies state-of-the-art roll covers in rubber or polyurethane for twin wire press rolls. With a legacy of innovation from the world-renowned brand Stowe Woodward, the most suitable roll cover solution is available for your application.



Roll upgrade solutions

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.

100% STAINLESS STEEL ROLLS

As a high-end solution, we can offer rolls made entirely of stainless steel. They are completely non-corrosive.

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.



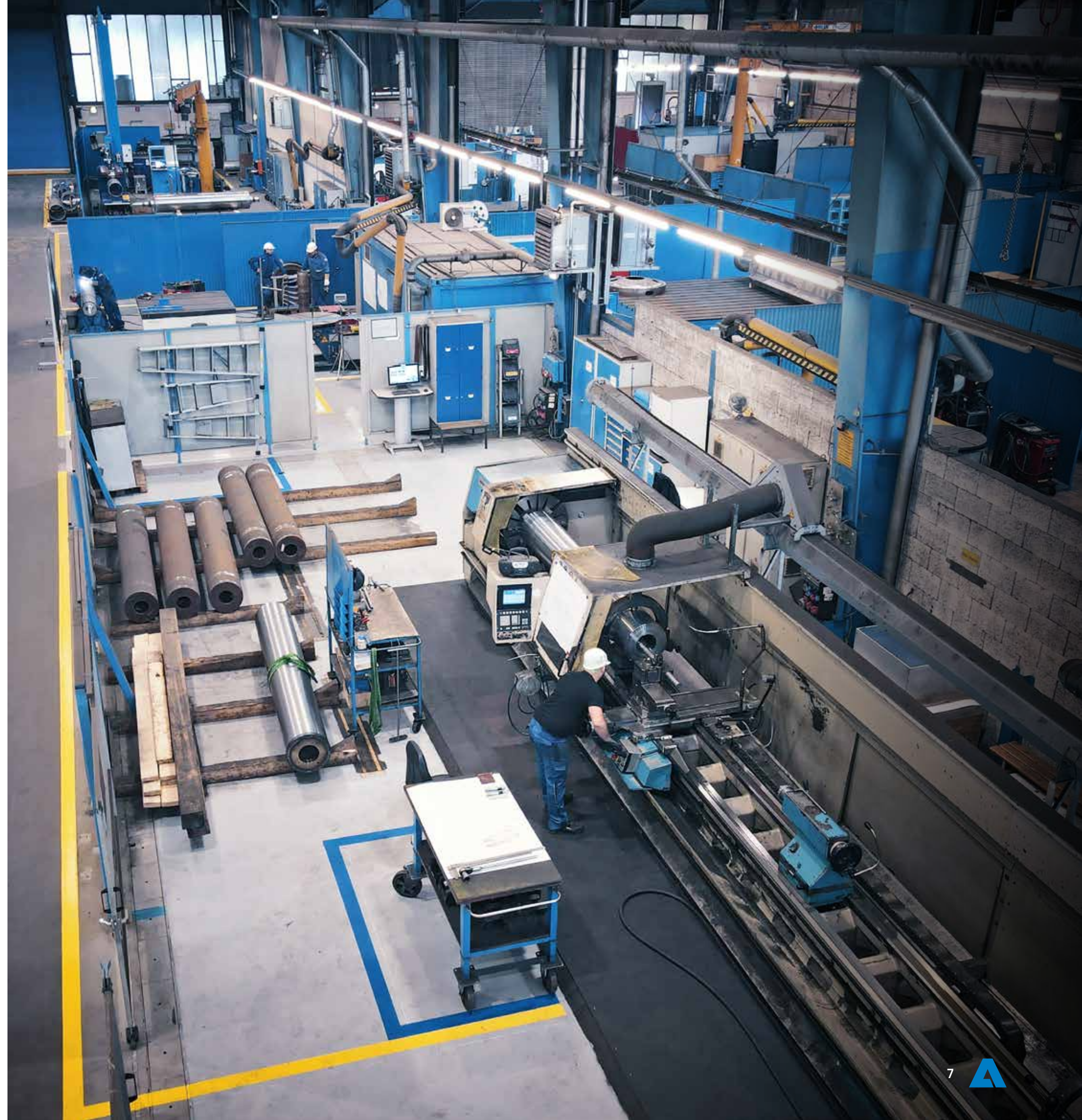
ANDRITZ is your partner

Roll manufacturing, repairing, and reconditioning is conducted in workshop facilities strategically located in key regions to serve our customers effectively. They are equipped with state-of-the-art machinery and tools as well as skilled professionals.

In 2023, ANDRITZ opened a cutting-edge roll production line at its plant in Graz, Austria, to be able to carry out all process steps in quick succession.

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



All steps in a single line

"In the new roll manufacturing and repair facility in Graz, all roll processing steps are carried out in one line."

MARKUS SCHREIBER
Head of Steel Fabrication Shop



BALANCING, INSPECTION, AND MEASURING

All rolls undergo dynamic or static balancing checks, as well as precision measurements to meet our high quality requirements.



PRESERVATION, PACKING, AND SHIPPING

Rolls are prepared for safe transport to and storage at the customer site.



AUTOMATED AXIAL WELDING

An automated welding system ensures the best weld quality of the longitudinal seam and dimensional accuracy of the roll shell.



INSTALLATION OF ROLL SHAFT

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



RADIAL WELDING

The roll shell segments are welded together, which requires excellent welding skills to guarantee longterm and safe roll operation.



MOUNTING OF ROLL SHELL

All roll shell segments are heated up to slip them onto the roll tube for tight fit after cooling down.




MACHINING OF ROLL TUBE

With the turning lathe, both inner and outer diameters can be turned or grinded to ensure a perfect fit of the roll shaft.



PARTS DELIVERY

All incoming parts are stored here, regardless of whether they come from outside or from our own workshop. Defective rolls from customers are also waiting to be repaired here.



"Our know-how from thousands of twin wire press rolls produced is your benefit."

EWALD KULHANEK
Global Product Manager
Twin Wire Press Services

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