



LOCAL SERVICE CENTERS FOR YOUR FUNCTIONAL ROLLS

Roll Service in Europe

ANDRITZ



Service for functional rolls for pulp and paper production

Today's papermakers require optimal availability and performance from their production equipment. In paper, board, tissue, and pulp machines, functional rolls positioned throughout the production line play a critical role in maintaining superior sheet quality while achieving maximum production efficiency.

Keeping everything rolling is one of the most critical challenges in a paper mill. With tight budgets and increasing demands, mills are focusing on the operability and performance of existing equipment.

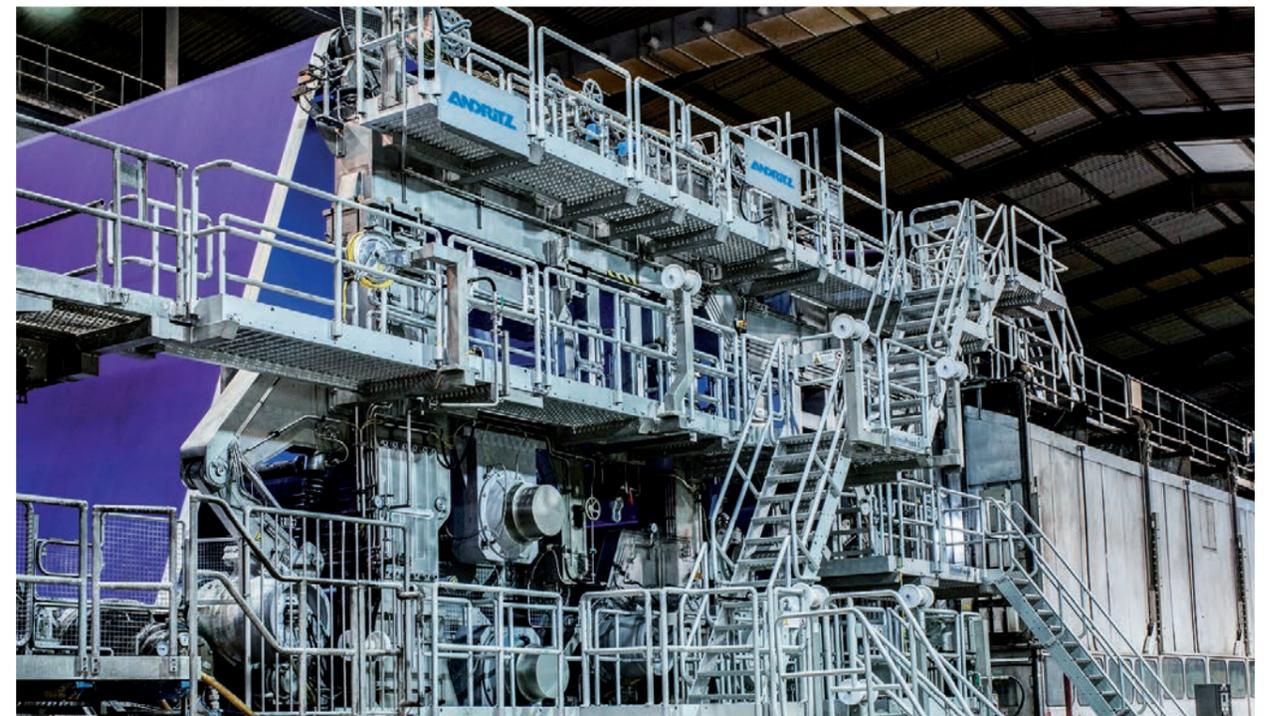
ANDRITZ has extensive roll service expertise and specializes in the repair, reconditioning, and upgrading of all types of functional rolls, regardless of the brand or manufacturer. Thanks to extensive investments and professional cooperation, ANDRITZ has two workshop facilities in Europe equipped with state-of-the-art machines and tools, and can also provide experienced technicians for each roll processing and machining step.

ANDRITZ KÜSTERS KREFELD, GERMANY

ANDRITZ Küsters offers customized technical solutions and services for a variety of applications: from highly sophisticated processes to solutions for emerging markets. Production machinery is supported with engineering services and project management skills for challenging applications and system solutions. Their service solutions extend the lifecycle of rolls, ensuring they remain operational for many years.

PARTNER WORKSHOPS

Due to cost-intensive and complex transportation of very big and heavy rolls in particular, ANDRITZ has set up partnerships to better serve and support customers in the Nordic and Baltic states when it comes to the overhaul, refurbishment, and modernization of functional rolls.



PrimePRESS X

ANDRITZ shoe press technology

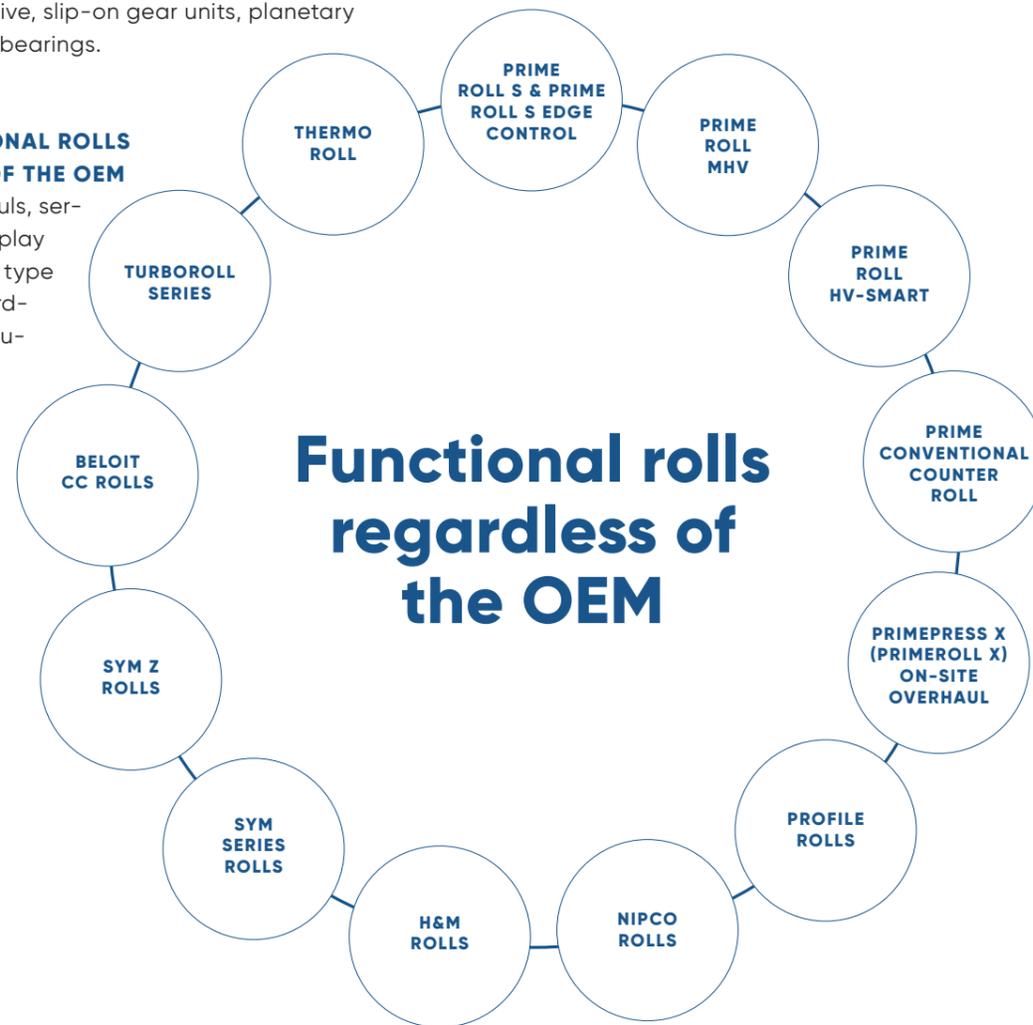
Our offering at the workshops

ANDRITZ professionals are experts in manufacturing, repairing, and reconditioning your rolls

Every roll that comes into our workshop is run through a sophisticated and standardized overhaul process, which ensures the fastest delivery times and highest quality refurbishment. In addition to the roll itself, we can also inspect and refurbish various roll drive systems, including belt drive, slip-on gear units, planetary gears, and triple race bearings.

SERVICE OF FUNCTIONAL ROLLS WITH REGARDLESS OF THE OEM

ANDRITZ offers overhauls, servicing, and plug-and-play replacements of every type of functional roll, regardless of roll type or manufacturer.



**Functional rolls
regardless of
the OEM**



Roll service capabilities

Extensive testing of each roll upon arrival and before delivery



Drilling

Grinding

Honing

TEST STAND CAPABILITIES

Extensive testing of each roll upon arrival and before delivery

- Functional rolls are sophisticated engineered parts with complex internal mechanisms and very tight tolerances. Although every roll in our workshops is overhauled by our most experienced technicians, using the highest quality spare parts and refurbishment procedures, maximum functionality can only be ensured with extensive testing.
- Therefore, every roll that involves a certain level of complexity is stringently and extensively tested on our state-of-the-art test stand. This includes monitored trials with the roll's original drive unit under real hydraulic operation pressures and at typical operating speeds. No highly-complex rolls leave our workshop if they do not comply with our test criteria and meet the highest quality standard.

- If major technical issues are reported by our customers, rolls will be tested upon arrival and before disassembly to evaluate and analyze the roll condition. This procedure ensures fast troubleshooting and proactive refurbishment planning.

UPGRADE SOLUTIONS

- Mechanical upgrades
- Hydraulic upgrades
- Automation system upgrades
- Process upgrades

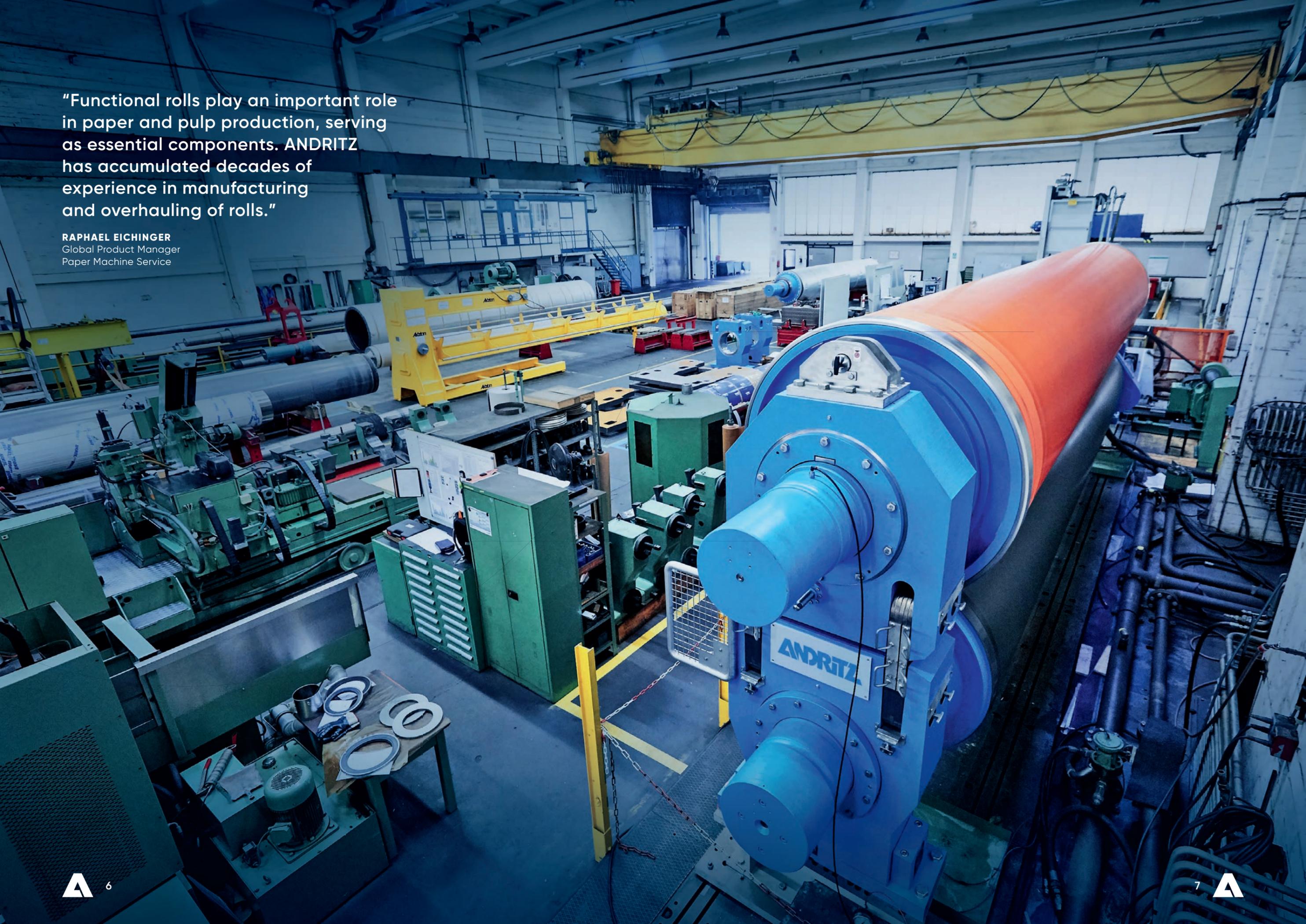
REPLACEMENT OF ROLLS

One-to-one

- Engineering to satisfy new operating conditions
- Performance improvement**
- Increased production
- Ensuring best paper quality
- Adapting to new operating conditions for new paper grades

"Functional rolls play an important role in paper and pulp production, serving as essential components. ANDRITZ has accumulated decades of experience in manufacturing and overhauling of rolls."

RAPHAEL EICHINGER
Global Product Manager
Paper Machine Service



On-site service



Shoe press PrimePressX

ANDRITZ has extensive process expertise to provide you with the best service for your needs. In addition to the services in our workshops, ANDRITZ also offers on-site service and troubleshooting, especially for

shoe presses and calenders. Our local service team, equipped with the right tools, is ready whenever you have scheduled your shutdown.

YOUR BENEFITS

Short distances for quick response:

The close proximity of the service workshops in Europe ensures a quick response for functional roll services or upgrades, minimizing downtime and production shutdowns.

Reduced transportation costs:

The proximity of the service workshop significantly reduces transportation costs for equipment and parts, resulting in cost savings for your operation.

Customized solutions:

The local workshop can be used to create tailored solutions specific to your functional rolls and operational requirements.

Upgrade & improvement:

ANDRITZ offers upgrades and exchanges of old, outdated roll designs for the latest state-of-the-art solutions to increase lifetime and reliability, and save on spare part costs in future.

Cost-effective maintenance:

Timely maintenance, refurbishment, and upgrades from the local service workshop help extend the life of your equipment, providing a cost-effective alternative to replacing entire rolls.

Local knowledge:

The regional service centers understand the regional challenges and specific industry requirements and can therefore provide services suited to local conditions.

Paper Technology Center in Krefeld, Germany

Rise to new levels of papermaking



Pilot machinery at the ANDRITZ Paper Technology Center in Krefeld, Germany

Nowadays, the words "change," "challenge," and "improvement" are often heard in the paper industry. The extensive paper and board market demands a high degree of awareness in addition to flexibility and development. It is often necessary to develop new processes or to upgrade an existing standard, but development involves time, know-how, and resources. In addition to the recently commissioned PrimeLineTIAC tissue pilot plant in Graz, customers can also run stock preparation trials and test all calendering processes required on the market.

PILOT FACILITIES AT ANDRITZ KÜSTERS

Our customers have the opportunity to take their papermaking to new levels with the maximum support they require.

The pilot machinery at the ANDRITZ Paper Technology Center in Krefeld is available for customer trials. ANDRITZ's technological experts provide modern and flexible state-of-the-art pilot facilities to deliver optimal quality for your development projects.

Seeing a result directly in front of you has a massive impact in creating new concepts. The pilot facilities in

Krefeld give you an immediate impression of how new ideas and technical inventions will create benefits for you. Tests and monitoring can be conducted on our machines, accompanied by technological experts in a safe and risk-free environment, generating reliable results. You can run trials with your own products under actual operating conditions. By using computational modeling tools, operating conditions at production speeds and scale can be duplicated. Our in-house paper lab is also available to customers for testing paper characteristics.

Krefeld, Germany

Raising standards with our pilot facilities

Combining our machines with your ideas

With ANDRITZ Küsters pilot machines, you can expect to have a wide range of machine combinations at your disposal.

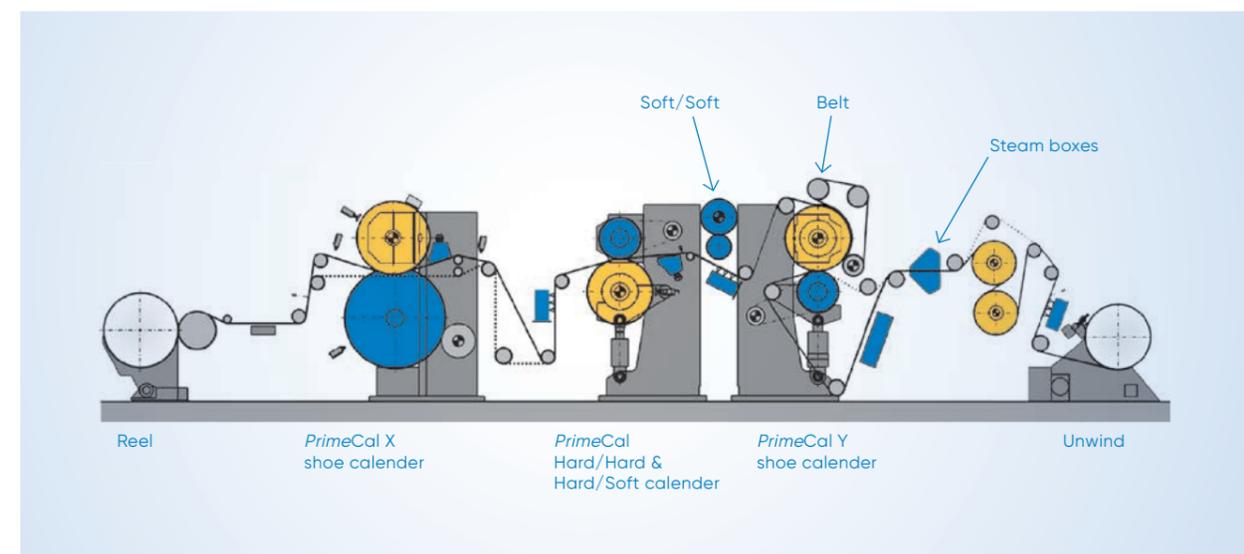
If you want to test paper that has to be highly calendered, the *PrimeCal ProSoft* calender is the perfect choice. You can combine 8+5 rolls and test on a maximum of 4+6 nips at up to 180 °C on a web width of 800 mm. For more flexible options, our *PrimeCal* pilot calender will bring you closer to your goals of improving the results obtained in production of writing and printing papers, cartonboard, or packaging paper with 2×2 rolls and a maximum speed of 1,400 m/min at a surface temperature of up to 220 °C. You can decide between our *PrimeCal Hard/Soft* calender, *PrimeCal X* shoe calender, and *PrimeCal Y* belt calender, which can be equipped in many ways to take papermaking to a new level. In a nutshell, we are able to support your trials with all common calendering technologies. Our experts will plan your order so that you can tune and change the technical parameters during a test, and we are always ready to run a trial or to produce small batches of paper for your company.

PrimeCal Hard/Soft, X, Y

Rolls	2×2
Roll configuration	Hard/Soft, Hard/Hard, Soft/Soft
Covers	up to 92 ShD
Line load	10–370 kN/m
Speed	1,400 m/min
Roll surface temperature	up to 220 °C
Steam boxes	4

PrimeCal ProSoft

Rolls	8+5
MultiNip	max. 4+6
Web width	800 mm
Line load	10–400 kN/m
Speed	1,500 m/min
Roll surface temperature	up to 180 °C
Core diameter	76–150 mm
Reel diameter	max. 1,450 mm
Steam boxes	4



Machine layout: Pilot line with *PrimeCal X* shoe calender *PrimeCal Hard/Soft*, and *PrimeCal Y* belt calender

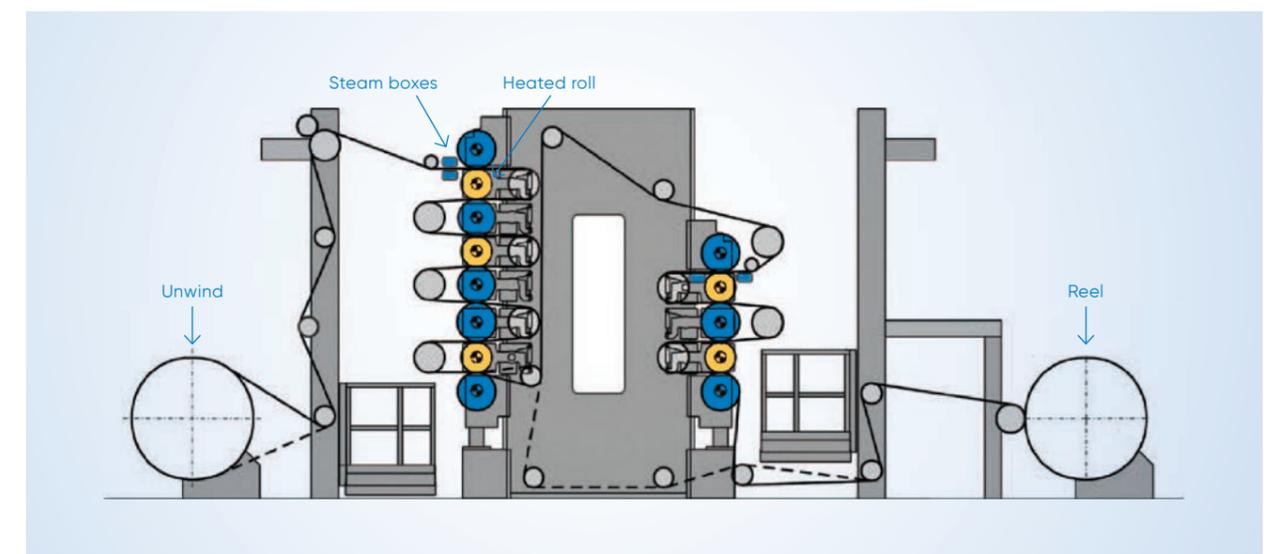
Paper laboratory and testing facility

Maximizing the result

To maximize your results and assist you with state-of-the-art expertise, you will have access to the laboratory and testing facility. In this special facility, our qualified employees and experts will measure different parameters to show how the test run on our machines has changed the outcome of the product. Of course our experts will also provide samples, data, and additional advice relating to the trials.

LABORATORY TESTING CAPABILITIES

- Caliper and bulk
- Moisture
- Gloss (Lehman, Gardner)
- Smoothness (Bekk)
- Porosity (Bendtsen, Gurley)
- Optical properties
- Roughness (PPS, Bendtsen, Sheffield)
- Bending stiffness
- Blackening index
- Imaging analysis
- Ash content



Machine layout: *PrimeCal ProSoft* calender



PrimeService FOR TISSUE, PAPER AND BOARD: IMPROVE YOUR MACHINE PERFORMANCE

ANDRITZ supplies spare parts and engineered wear products and provides customer-specific maintenance and upgrade services for your paper mill – from stock preparation to the reel, including automation solutions, and pumps.

Our service specialists are skilled and experienced at raising the production efficiency of a machine, process step, or production line. Their knowledge helps protect and extend the life of your equipment and lower your overall operating costs. The huge variety of ANDRITZ upgrade products provides performance improvements, energy and cost savings as well as return on investment (ROI) within the shortest time. We work closely with you to monitor, maintain, repair, and upgrade your assets. Full support – technically, mechanically, and personally – is provided to you regardless of who originally manufactured your equipment.

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