

A photograph of a paper mill interior. Large rolls of paper are being processed by machinery. Yellow overhead cranes are visible. A large yellow circular graphic is overlaid on the right side of the image.

INDUSTRIAL SEALING SOLUTIONS

LATTY.COM

A yellow circular logo containing the text 'GROUPE LATTY' in a bold, sans-serif font.

GROUPE
LATTY[®]

SOLUTIONS

**PAPER
INDUSTRY**

INTRODUCTION

INDUSTRIAL SEALING SOLUTIONS
SINCE 1920



LATTY SOLUTIONS FOR THE PAPER INDUSTRY



These solutions deliver sustainable financial benefits.

In the paper industry, sealing is a critical performance factor. Constant humidity, fluctuating temperatures, high pressures, and aggressive fluids place equipment under severe stress.

In this demanding environment, **the reliability of sealing systems directly impacts equipment availability, operational safety, and cost control.**

To meet these challenges, the solutions developed by GROUPE LATTY deliver 5 key benefits.



ENHANCED SAFETY

Enhance the safety of your teams and facilities through reliable solutions.



REDUCED WATER CONSUMPTION

Protect the environment by reducing water consumption.



ENVIRONMENTAL IMPACT

Act for the environment by optimizing wastewater treatment and reuse.



REDUCED WATER CONSUMPTION

Reduce your energy footprint for a more sustainable future.



DOWNTIME REDUCTION

Reliable and sustainable solutions to maximize equipment availability.



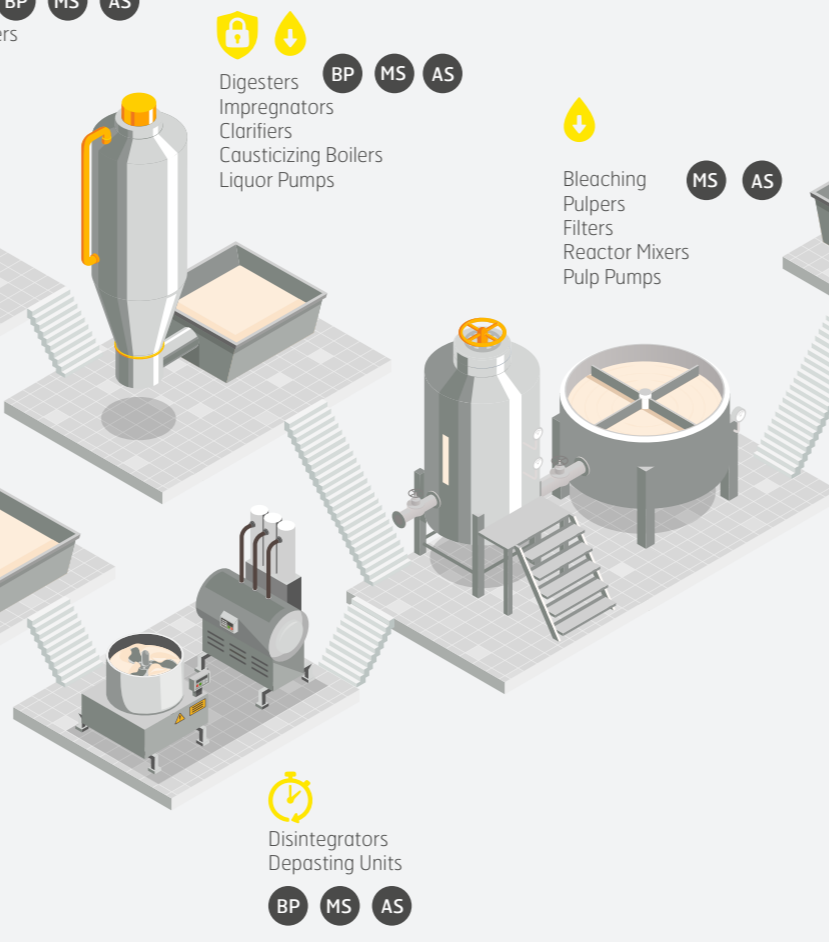
REPAIR AND TRAINING

Comprehensive services to optimize the performance and durability of your equipment.

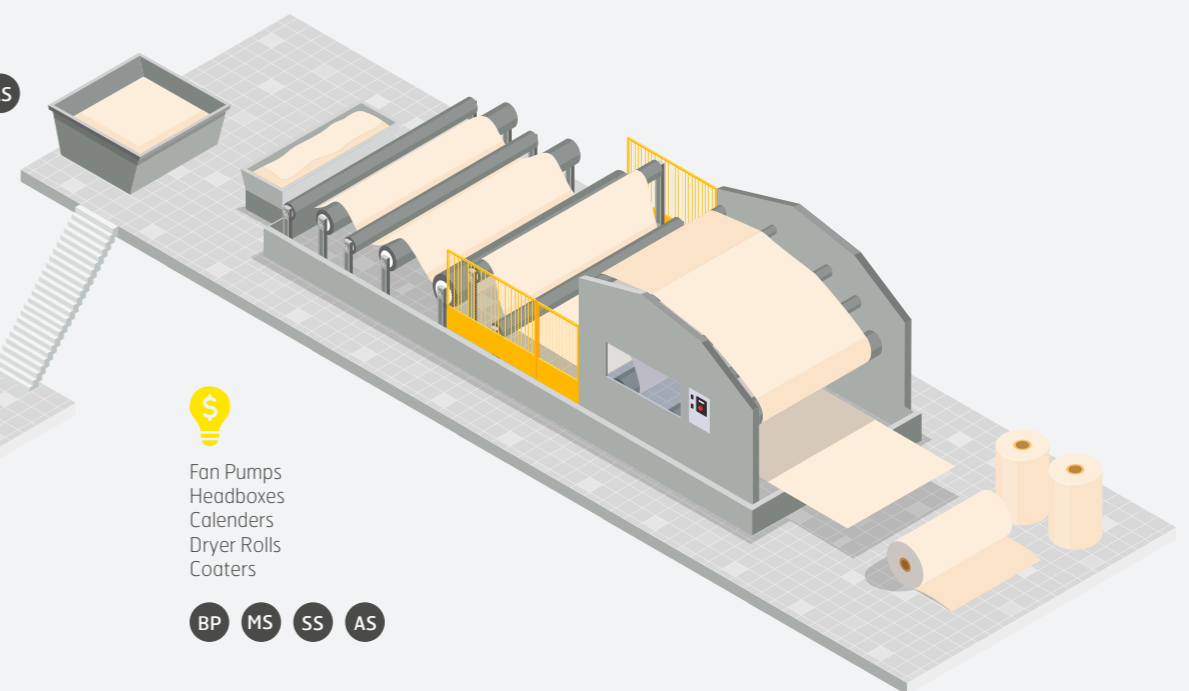
PULP PREPARATION (RAW WOOD)



PULP BLEACHING



PAPER MANUFACTURING



RECYCLED PULP PREPARATION



LATTY SOLUTIONS FOR THE PAPER INDUSTRY

BP BRAIDED PACKING
MS MECHANICAL SEALS

SS STATIC SEALING
AS AUXILIARY SYSTEM



ENHANCED SAFETY

Enhance the safety of your teams and facilities through reliable solutions.



REDUCED WATER CONSUMPTION

Protect the environment by reducing water consumption.



Safety is not an option: it is the foundation of any sustainable performance.

Between high-speed machinery, thermal processes, and chemical products, production requires constant vigilance.

Through a prevention-oriented and technology-driven approach, the sealing solutions developed by GROUPE LATTY enhance safety and reliability in industrial environments.



Water is a strategic resource in paper manufacturing, and its preservation is a key challenge for industrial players.

The sealing solutions developed by GROUPE LATTY significantly reduce water losses on rotating equipment and process systems. By improving sealing performance, these solutions contribute to lowering water consumption and help manufacturers meet their environmental commitments.



CASE STUDY

OPTIMIZATION OF SAFETY AND EQUIPMENT RELIABILITY

The solutions developed by GROUPE LATTY enhance process and personnel safety while improving equipment reliability.

CASE STUDY

REDUCED WATER CONSUMPTION

Zero water consumption, controlled leakage, restored reliability, and proven customer satisfaction in the field.

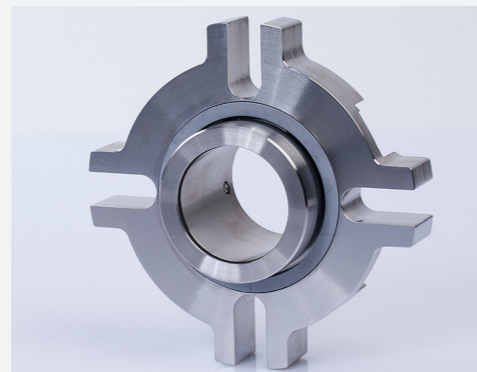
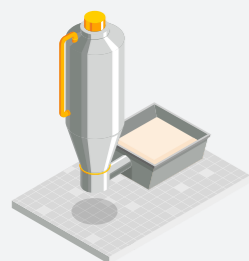
CUSTOMER ENVIRONMENT

Liquid-ring centrifugal pump.

Operating conditions: shaft diameter 1,96" (50 mm), speed 1500 rpm, pressure 43,51 Psi (3 bar), black liquor 19%, temperature 239 °F (115 °C).

CUSTOMER ISSUE

This pump exhibited significant leaks of black liquor, which is highly dangerous and corrosive (pH > 13, temperature 248°F (120 °C)). These leaks posed a major risk to both personnel and equipment.



SOLUTION

CARTSEAL B23812 DBS

The CARTseal B23812 DBS (double backup) provides leak protection through a secondary rear mechanical seal, known as a "backup seal," which engages in the event of failure of the primary sealing barrier.

It enhances personnel safety and protects equipment in aggressive processes such as black liquors or green liquors, while eliminating the need for an external fluid typically used in double mechanical seals.

This DBS solution combines personnel safety and equipment protection while removing the need for an external water-based fluid.

From case study no. 1269.

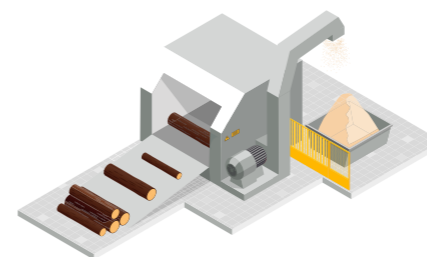
CUSTOMER ENVIRONMENT

Refiner

Operating conditions: shaft diameter 4,33" (110 mm), speed 1500 rpm, pressure 87,02 Psi (6 bar), temperature 104°F (40°C).

CUSTOMER ISSUE

The existing non-GROUPE LATTY solution requires a significant supply of clean water without ensuring equipment reliability. Repeated maintenance interventions lead to a decline in machine efficiency.



SOLUTION

LATTYCORE 7189G

The LATTYcore 7189G packing was implemented to enhance sealing performance while reducing water consumption.

Thanks to its unique technology, this solution has permanently eliminated the need for clean water supply, extended sealing service life, and addressed key environmental efficiency challenges. The LATTYcore technology also delivers significant financial benefits.

From case study no. 1294.

This case study presents a solution that has demonstrated its effectiveness. Other LATTY's sealing solutions developed can also be implemented.



This case study presents a solution that has demonstrated its effectiveness. Other LATTY's sealing solutions developed can also be implemented.





ENVIRONMENTAL IMPACT

Acting for the environment by optimizing wastewater treatment and reuse.



REDUCED WATER CONSUMPTION

Save energy by eliminating fluid losses.



Controlling water treatment is not a choice, but a major environmental challenge to protect our planet.

By reducing contamination risks and optimizing systems, the sealing solutions developed by GROUPE LATTY enable paper manufacturers to achieve their environmental targets while complying with applicable regulations. Reducing wastewater emissions helps preserve ecosystems and strengthens environmental responsibility.



Paper production is highly energy-intensive. Every optimization contributes to reducing costs and the carbon footprint.

By limiting friction, pressure losses, and leaks, the solutions developed by GROUPE LATTY significantly reduce the energy consumption of equipment.

By ensuring stable operation, they improve efficiency without compromising productivity. Lower energy consumption means greater competitiveness and a step towards a more responsible paper industry.



CASE STUDY

ENVIRONMENTAL IMPACT

Significant reduction of environmental impact while ensuring continuous and sustainable improvement in performance.

CASE STUDY

REDUCED WATER CONSUMPTION

The implemented solution has **reduced energy consumption** while ensuring stable and reliable operation from the initial installation.

CUSTOMER ENVIRONMENT

Stuffing box on defibrator

Operating conditions: speed 1500 rpm, pressure 130,53 Psi (9 bar), temperature 248°F (120 °C).

CUSTOMER ISSUE

A recommended flow rate of 45 L/min to flush the stuffing box and ensure proper operation results in high water consumption, reaching up to 2 m³ per hour, or 10,000 m³ per year.

The customer is seeking a more water-efficient solution while maintaining the proper operation of the defibrator equipment.



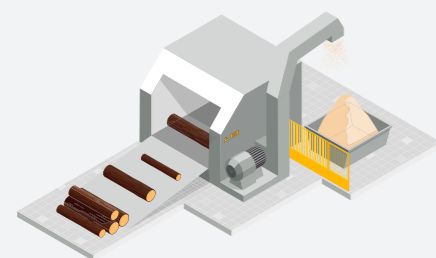
SOLUTION

AUXILIARY SYSTEMS - LATTYlub

Thanks to the LATTYlub lubrication kit, it is possible to convert a once-through water system into a closed loop. Water is no longer continuously discharged. The circuit, with a capacity of less than 10 L, is drained every 2 to 3 months.

This approach significantly reduces wastewater volumes, limits water consumption, and decreases the load on treatment systems, while ensuring optimal control of the sealing system. As a result, installations become more efficient and environmental impact is substantially reduced.

From case study no. 25-100.



This case study presents a solution that has demonstrated its effectiveness. Other LATTY's sealing solutions developed can also be implemented.



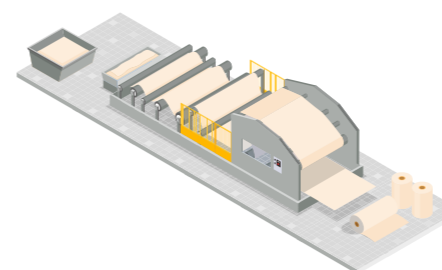
CUSTOMER ENVIRONMENT

Dryer rolls

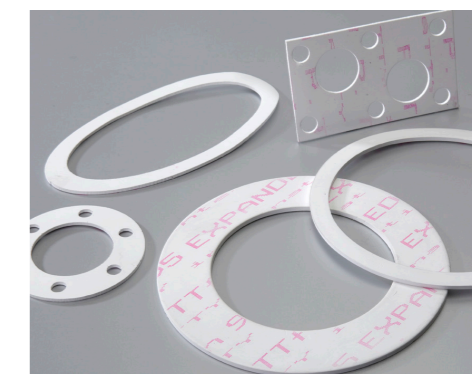
Operating conditions: pressure 58,01 Psi (4 bar), temperature 410°F (210 °C).

CUSTOMER ISSUE

The complexity of implementing the original sealing system led to frequent shutdowns and excessive energy consumption, while also making it difficult to maintain stable temperature conditions and equipment efficiency.



This case study presents a solution that has demonstrated its effectiveness. Other LATTY's sealing solutions developed can also be implemented.



SOLUTION

LATTYflon 95

The LATTYflon 95 gasket has enabled the creation of a perfectly tight sealing circuit on dryer cylinders. Its installation is simple, with optimal sealing performance from commissioning.

Thanks to this solution, heat losses are reduced. Energy consumption decreases significantly, and machines operate more efficiently and continuously.

The reduction in production downtime improves productivity while lowering the energy impact of the installations.

From case study no. 1173.





DOWNTIME REDUCTION

Reliable and durable solutions to maximize the availability of your equipment.

In an industry where production rates are high, every unplanned shutdown results in lost productivity and significant costs.

The solutions developed by GROUPE LATTY, recognized for their robustness and long service life, help reduce premature wear, emergency maintenance interventions, and failure risks.

By securing critical equipment, they maximize availability, reduce downtime, and improve production efficiency, operational reliability, and profitability.

CASE STUDY

DOWNTIME REDUCTION

The solution eliminates unplanned production shutdowns while significantly reducing product losses.

CUSTOMER ENVIRONMENT

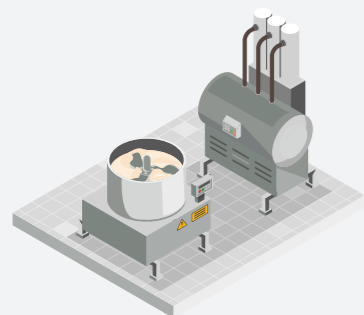
Horizontal agitator on a pulp tank

Operating conditions: shaft diameter 4,05" (103 mm), speed 300 rpm, temperature 104°F (40 °C).

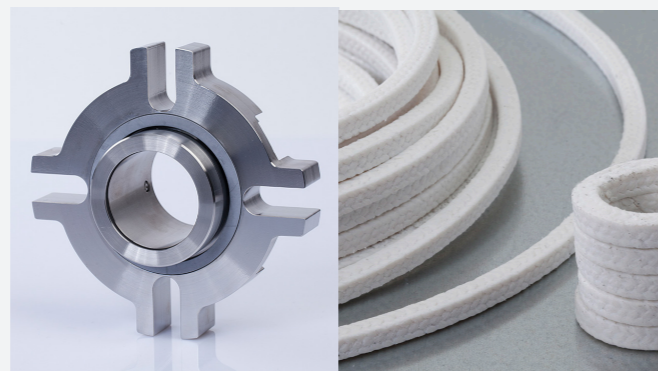
CUSTOMER ISSUE

Significant leaks at the stuffing box result in product loss as well as excessive water consumption.

In addition, mandatory cleaning leads to an increase in production downtime.



This case study presents a solution that has demonstrated its effectiveness. Other LATTY's sealing solutions developed can also be implemented.



SOLUTION

LATTYSEAL B23812 & LATTYFLON 5790

The recommended solution consists of installing a LATTYseal B23812 mechanical seal combined with a LATTYflon 5790 packing, combining the advantages of a mechanical seal with the safety of a backup stuffing box.

In the event of leakage or wear of the mechanical seal, the packing takes over, maintaining a tolerable leakage level until the next maintenance intervention and thus preventing any production shutdown.

From case study no. 1266.



MECHANICAL SEAL REPAIR

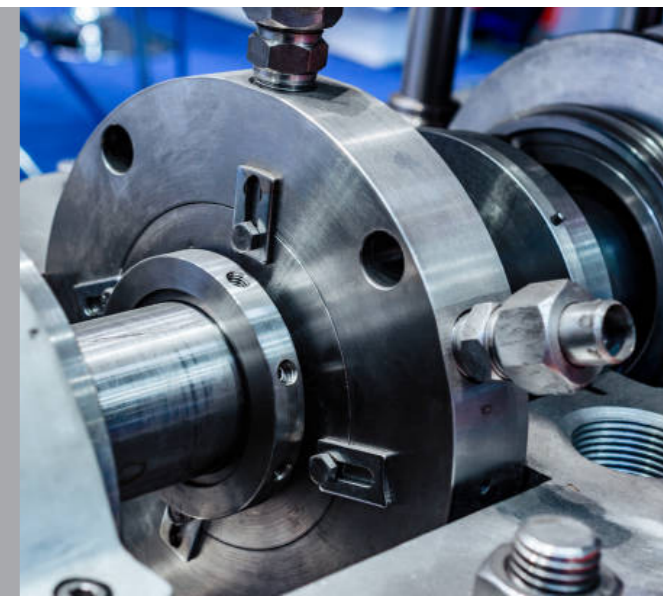
LATTYseal Services: specialized workshops for the repair, reconditioning, and reliability enhancement of your mechanical seals.



To support our customers in optimizing their equipment, we offer a comprehensive service for repair, reconditioning, and reliability improvement.

This service allows you to benefit from our expertise and advice as part of a continuous approach to improving your systems.

Equipped with dedicated tools and specialized equipment, our workshop helps extend the service life of your equipment while reducing maintenance costs.



REPAIR, RECONDITIONING, AND RELIABILITY IMPROVEMENT OF YOUR MECHANICAL SEALS.

It improves equipment reliability while significantly reducing maintenance costs.

CUSTOMER ISSUE

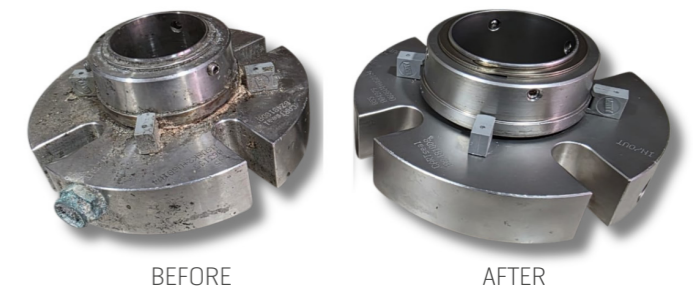
Replacing a mechanical seal is costly and results in significant maintenance expenses.

CUSTOMER OBJECTIVE

As part of its CSR (Corporate Social Responsibility) approach, our customer is requesting our solutions for implementing a repair and reconditioning process for mechanical seals in order to improve equipment reliability and optimize maintenance management.

INFORMATION

Find the addresses of our service centers near you on our website latty.com



SOLUTION

RECONDITIONING AND REPAIR OF YOUR MECHANICAL SEALS.

Reconditioning and repair of mechanical seals have improved equipment reliability while reducing maintenance costs.

Systematic inspection of internal components makes it possible, when necessary, to enhance system reliability by using materials adapted to service conditions (sealing faces, gaskets, etc.).

Repairing rather than systematically replacing with new parts supports both an economic and environmental approach.





TRAINING

Technical training focused on implementation and best installation practices.

A well-trained employee is both more competent and more efficient.

Our training programs focus on the selection of sealing solutions and best installation practices, in order to enhance team safety and equipment reliability. They are delivered either at our production site or directly at our customers' facilities.

Certified QUALIOPi, awarded under the training category reference no. 2021/96874.1.



INDUSTRIAL SEALING TRAINING

The training provided by our teams helps improve equipment availability.

CUSTOMER ISSUE

Acquire knowledge and best practices for installing sealing solutions.

TRAINING OBJECTIVES

- Understand different leakage phenomena
- Define specifications enabling the recommendation of a sealing system
- Select a sealing solution based on service conditions
- Learn proper installation and maintenance practices using our instrumented test benches



SOLUTION

TRAINING

Our training programs help reduce failure frequency, improve equipment efficiency, optimize maintenance costs, and strengthen the technical skills of personnel.

INDUSTRIAL SEALING SOLUTIONS SINCE 1920.



WHO WE ARE?

GROUPE LATTY designs and manufactures its sealing solutions at its production site in France.

In compliance with the strict and specific requirements of the paper industry, our products are rigorously designed, inspected, and tested at every stage of the manufacturing process.

Thanks to this expertise, we provide our customers with tailor-made, reliable, and durable sealing solutions that meet the environmental, technical, and operational constraints of the paper industry.

MADE IN FRANCE



VIRTUAL VISIT

An immersive tour at the heart of the manufacturing of braided packings, mechanical seals, and static gaskets.

LATTYSEAL SERVICES

We offer a comprehensive range of services to support our customers in improving the reliability, performance, and sustainability of their installations.

TECHNICAL RECOMMENDATION

As each application is unique, we guide you toward the sealing solutions best suited to your specific constraints.

TECHNICAL SUPPORT

Our technicians support you throughout your projects, from diagnostics and installation assistance through to commissioning.

CUSTOM MANUFACTURING

We also design tailor-made sealing solutions adapted to your constraints and operating conditions to ensure maximum efficiency.



SOLUTIONS

PAPER INDUSTRY



GROUPE LATTY subsidiaries and service centers are available worldwide to respond to your needs.
A list of locations is available on our website.

LATTY.COM



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