PULP & PAPER

STOCK PREPARATION PILOT PLANT IN GRAZ

CUSTOMER TRIALS, RESEARCH AND DEVELOPMENT
Trial and error in the right place

Trial and error is a very common way of solving problems: You try, you fail, you try something else, and hopefully succeed in the end. All the more important that this principle is put into practice in the right place and not in a paper mill – where the goal is uptime, efficiency, and throughput 24/7.

At the Stock Preparation Pilot Plant in Graz, papermakers have a fully equipped area to test their ideas for equipment, processes, and products on pilot-plant scale – without impacting mill operations. Running the trials and making the errors at our pilot plant means that there are no errors at your mill.

**FULL-LINE CAPABILITIES**

ANDRITZ’s original Stock Preparation Pilot Plant was built in 1982 for customer trials and internal R&D. In 2004 and 2005, major renovations and extensions to the plant were completed to add full-line capabilities.

The pilot plant today is fully equipped for equipment and process R&D as well as direct work for customer trials. It is flexible enough to accommodate single machine testing or complete process lines and is able to process both recycled and virgin fibers. If needed for a specific trial, our specialists have the ability to collaborate with experts in one of our other ANDRITZ technical centers in Graz, Foshan and Springfield.

At the Stock Preparation Pilot Plant in Graz, papermakers have a fully equipped area to test their ideas for equipment, processes, and products on pilot-plant scale – without impacting mill operations. Running the trials and making the errors at our pilot plant means that there are no errors at your mill.

“Trial and error in the right place means that there are no errors at your mill.”

Laura Liukkonen
Director Stock Preparation Pilot Plant in Graz

“Mills usually contact us when they are contemplating a new investment, a different process or a new product or grade. Investments can range from replacement of a single piece of equipment to a complete new fiber preparation line.”

Andreas Gorton-Hülgerth
Director Technology, Stock Preparation and Recycled Fiber Systems

“Our real-mill environment with small, industrial-scale machines is a fundamental precondition to achieve highly accurate test results.”

Laura Liukkonen
Director Stock Preparation Pilot Plant in Graz
Simulation in a flexible, real-mill environment

Real-mill environment and numerous possibilities in terms of fiber sources and configurations is a reliable precondition to confirm future pulp properties and operating characteristics of the ANDRITZ equipment in advance.

FLEXIBILITY IN PULP TYPES AND CONFIGURATIONS
An important strength of the Stock Preparation Pilot Plant is its flexibility in processing and treatment of many different raw materials. The plant can handle virgin fibers (mechanical and chemical pulps), recycled fibers, and annual plant fibers.

In terms of layout, one-, two-, or three-loop systems can be configured with a variety of different machinery combinations. Based on the test results, an optimum system can be engineered, ensuring that the required fiber quality is achieved at the lowest possible investment cost. Testing of single machines and prototypes is, of course, also an important part of our daily business.

PAPER QUALITY LAB INCLUDED
In close proximity to the Stock Preparation Pilot Plant in Graz, ANDRITZ maintains a quality laboratory, certified to international standards, to analyze samples. These samples can come from our pilot plant or from your actual mill production. Physical and chemical studies are performed in a wet lab. A specially built conditioning room provides optimum conditions for strength analysis and optical evaluations of paper samples.

YOUR BENEFITS AT A GLANCE:
• Testing of all different kinds of pulp (virgin, recycled, annual plants, mechanical)
• Simulation of complete lines with different layouts
• Testing of single machines
• Real-mill environment with industrial-scale machines
• Easy accommodation of prototypes
• Dewatering capabilities so that pulp can be tested on a paper machine
• Full data logging and documentation
• Flexibility in piping for different machine configurations

Most accurate technological results for your investment

All trials are performed on small industrial-scale machines and not on down-scaled laboratory equipment. The advantage is that we have the most accurate technological results from the trial and any ongoing research and development work.

Simulation in a flexible, real-mill environment
Available equipment in our pilot plant

**PULPING**
- Batch-type FibreSlove pulper,
- FibreFlow drum

**SCREENING**
Different types of screens of the ModuScreen series for coarse, fine and headbox screening as well as fractionation

**DEINKING/FLOTATION**
- SelectaFlot flotation

**REMOVAL OF HEAVY PARTICLES AND DIRT SPECS**
- Various cleaner types

**DEWATERING**
- ANDRITZ Pulp Screw Press
- ANDRITZ Vertical Screw Thickener (VST)
- ANDRITZ DiscFilter with various filter segment designs (including bagless filter)

**ATMOSPHERIC AND PRESSURIZED DISPERSING**
- CompaDis disperser

**DEFLAKING**
- ANDRITZ DeFlaker

**REFINING (LOW/MEDIUM CONSISTENCY)**
- TwinFlo disc refiner
- Papillon refiner with cylindrical refining zone

**ASH REMOVAL**
- ANDRITZ RotoWash

**HIGH-CONSISTENCY BLEACHING COMPONENTS**

**EFFLUENT/REJECT TREATMENT**
- Mobile sludge dewatering unit
- ANDRITZ RejectCompactor

**AGITATION**
- TurboMix agitator

**AS WELL AS:**
- Pumps
- Automation system and equipment
- Twin-wire sheet drying line for pulp drying trials
FROM FIBER PROCESSING TO PAPERMAKING
DISCOVER OUR FULL-RANGE PORTFOLIO

An outstanding paper product requires outstanding production – matched with the particular needs of raw material and final product. Discover the full-range portfolio from ANDRITZ: Excellent stock preparation that allows best fiber development according to furnish and with economical use of resources. PrimeLine paper machines that are a synonym for producing top-quality tissue, paper, and board grades. Complete lines or single units, upgrades, and modernizations. Contact us and benefit from your individual package in papermaking technology.

AUSTRIA
ANDRITZ AG, Graz
p.: +43 316 6902 0

ANDRITZ AG, Vienna
p.: +43 508 055

ANDRITZ AG, St.Pölten
p.: +43 508 052 1754

GERMANY
ANDRITZ Küsters GmbH
p.: +49 2151 340

ITALY
ANDRITZ Como S.r.L.
p.: +39 031 396332

ANDRITZ Novimpianti S.r.L.
p.: +39 0583 30219

FINLAND
ANDRITZ OY
p.:+358 0 20 450 5555

RUSSIA
LCC ANDRITZ
p.:+7 812 315 0863

CHINA
ANDRITZ (CHINA) Ltd., Foshan
p.: +86 757 8250 2636

ANDRITZ (CHINA) Ltd., Beijing
p.: +86 10 8526 2720

JAPAN
ANDRITZ K.K.
p.: +81 3 3536 9700

INDIA
ANDRITZ Technologies PVT Ltd.
p.: +91 11 4937 2900

BRAZIL
ANDRITZ Brasil Ltda.
p.: +55 41 2103 7601

CANADA
ANDRITZ Ltd.
p.: +1 514 833 5079

ANDRITZ Paper Machinery Ltd.
p.: +1 514 631 7900

USA
ANDRITZ Inc., Glens Falls
p.: +1 518 683 5793

ANDRITZ Inc., Springfield
p.: +1 413 733 6603

ANDRITZ Paper Machinery Ltd.
p.: +1 815 389 8200

FIBER.PREP@ANDRITZ.COM
ANDRITZ.COM/STOCKPREPARATION