

veneer drying technology



Drying Expertise at the Highest Level



A photograph of three people in an office setting. Two men and one woman are standing and looking at several pieces of wood held by the man in the center. They are all smiling. In the foreground, there is a wooden table with some papers and more wood samples. The background shows office windows with blinds.

Drying Technology that Sets Standards—Powered by 150 Years of **Experience.**

GRENZEBACH WOOD DRYERS—INNOVATION WITH TRADITION

For over 150 years, Grenzebach has been committed to efficient and durable solutions in wood drying. Whether belt dryers or roller dryers, we develop tailored systems for processing wood veneers. Our innovative production facilities are distinguished by their reliability, efficiency, and longevity. We continuously refine our solutions and stand by you as a reliable journey partner on your path to success. Trust in the unmatched expertise of Grenzebach—your specialist in wood drying.

2002: BABCOCK BSH BECOMES GRENZEBACH BSH— A STRONG ALLIANCE FOR THE FUTURE

With the acquisition of Babcock BSH in 2002, Grenzebach further expanded its expertise in the building materials sector. Today, Grenzebach BSH GmbH in Bad Hersfeld, Germany, combines decades of experience with innovative technology to provide top-notch solutions for industrial drying processes.

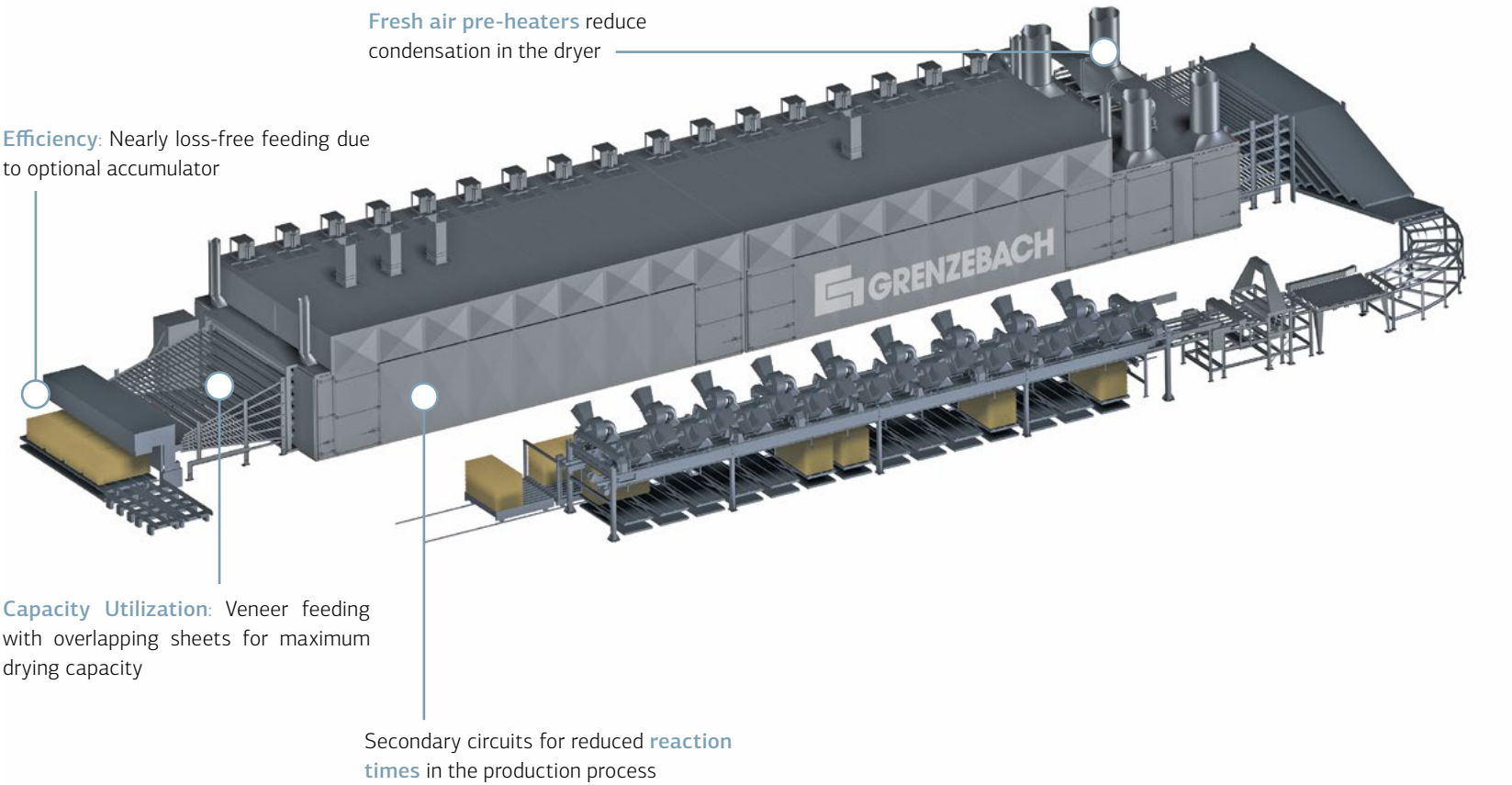
YOUR EXPERT IN INNOVATIVE DRYING TECHNOLOGIES

As a technology leader for wood, gypsum, or cement fiberboards, our innovations have set standards in the building materials industry for over a century. With customized systems, we provide reliable and efficient drying processes worldwide. Our experience and expertise make us a strong partner for the industry.

GLOBALLY CONNECTED—YOUR BENEFITS AT A GLANCE

Our global manufacturing locations in Germany, the USA, Romania, China, and India, along with our strong partnerships, offer numerous advantages. Thanks to this international network, you benefit from smooth import processes, optimized customs clearances, and significantly reduced transportation costs—fostering an efficient and economical supply chain. At the same time, our international service teams provide quick response times and prompt on-site support—for maximum efficiency and cost-effectiveness worldwide.

ADVANCED ROLLER DRYER TECHNOLOGY



Sustainability and Efficiency: Increased dryer efficiency through individual climate control system, lowers energy consumption, improves product quality, and reduces carbon emissions

Climate: For example, wet scrubbers or thermal post-combustion systems for exhaust air treatment

The highest **plant availability** is up to 98 %, for maximum productivity (depending on conditions)

Transparency and Digitalization: SERICY.report KPI Dashboard for a comprehensive process overview

- Working Conditions**
- » Efficient exhaust air treatment for a clean working environment
 - » Integrated particle separators in the suction box and veneer feeder

GENERAL PRODUCTION DATA

Capacities:	Individual
Working Width:	4,000 up to 6,200 mm (or customized)
Decks:	Up to 8

Modular system concept for maximum flexibility under given conditions, designed according to customer requirements.

ADVANCED BELT DRYER TECHNOLOGY

Working Conditions

- » Efficient exhaust air treatment for a clean working environment
- » Integrated particle separators in the suction box and veneer feeder

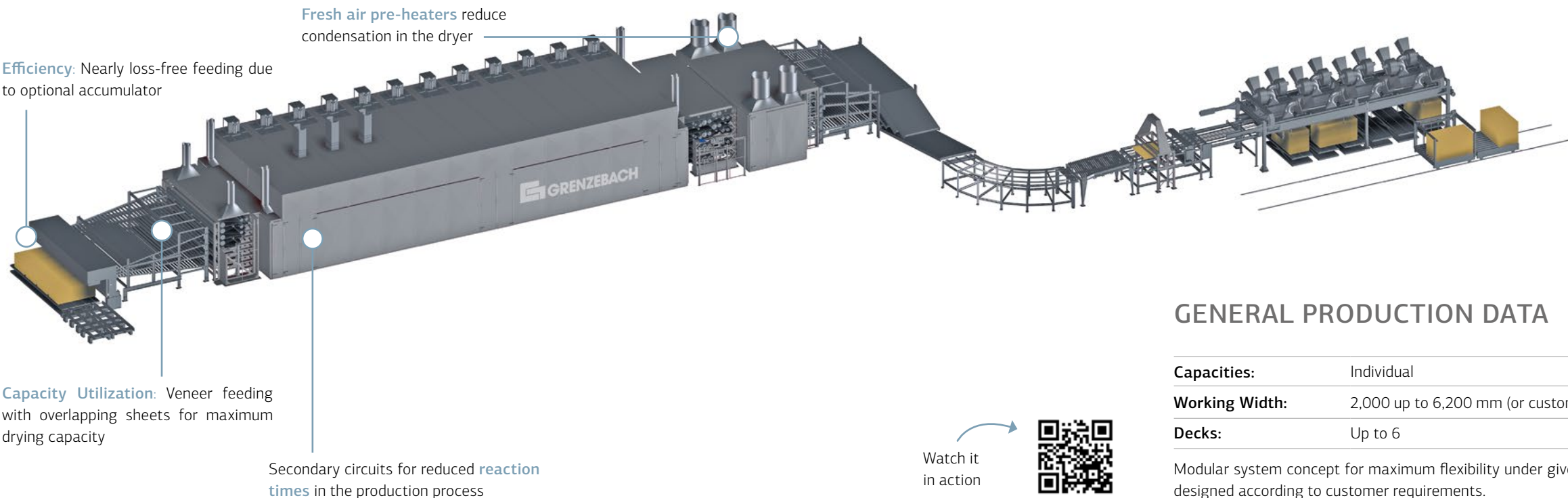
Climate: For example, wet scrubbers or thermal post-combustion systems for exhaust air treatment

Highest **product quality** due to the sine-wave guiding of the carry and cover belt in the second half of the dryer

Sustainability and Efficiency: Increased dryer efficiency through individual climate control system, lowers energy consumption, improves product quality, and reduces carbon emissions

Transparency and Digitalization: SERICY.report KPI Dashboard for a comprehensive process overview

The highest **plant availability** is up to 98 %, for maximum productivity (depending on conditions)



GENERAL PRODUCTION DATA

Capacities:	Individual
Working Width:	2,000 up to 6,200 mm (or customized)
Decks:	Up to 6

Modular system concept for maximum flexibility under given conditions, designed according to customer requirements.



PRECISION AND EFFICIENCY FOR DEMANDING VENEER HANDLING TECHNOLOGY

Handling Solutions

- » Tailor-made concepts for all requirements
- » Flexibility for complex handling tasks
- » High precision for the most demanding applications
- » Efficient integration into existing production processes
- » Optimized system solutions for maximum performance

Random Stacking

- » Higher stacking flexibility
- » Increased productivity through optimized material handling
- » Adaptable to different wood species and veneer dimensions
- » Reduced setup times and labor

Flexibility

- » Different raw materials (dimensions and wood species) can be dried on the same drying line
- » Adaptable handling concepts for maximum versatility
- » Optimal utilization of drying capacity

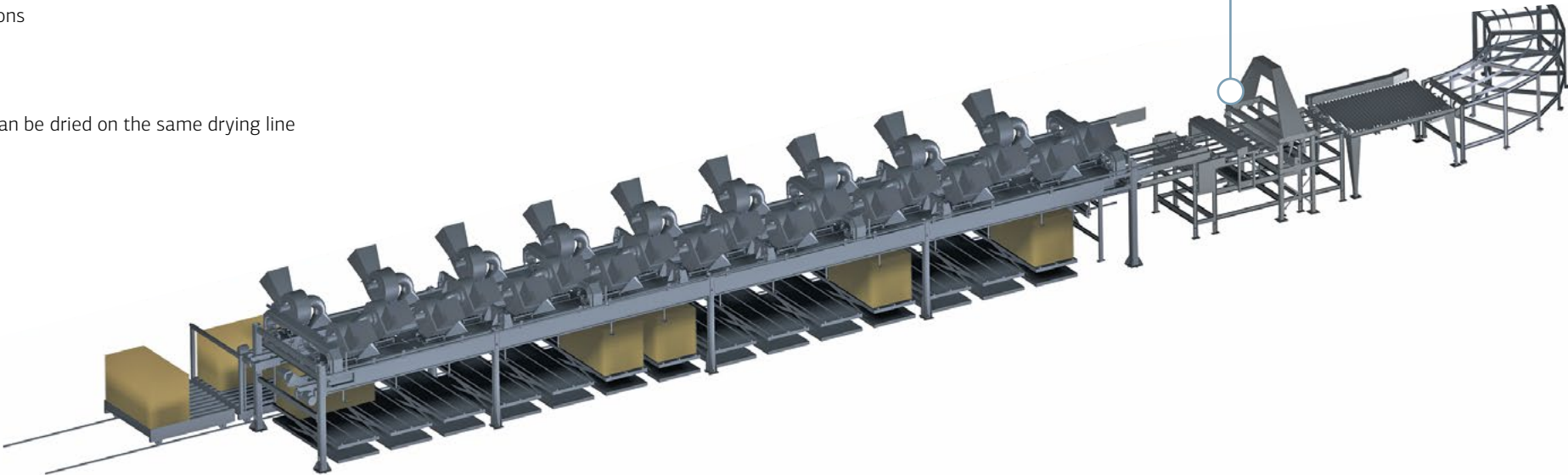
Stacking Technology

- » High stacking accuracy for high product quality
- » Cost reduction through smart energy utilization
- » High conveyor speeds for efficient processes

AI-Supported Quality Classification

- » Automated sorting and classification of each veneer according to defined criteria
- » Precise detection using camera-based technology

For more information, see the “Real-Time Optical Surface Inspection (ROSI)” flyer.



Read success
story



GENERAL PRODUCTION DATA

Stack Lift Size: Individual



YOUR BENEFITS AT A GLANCE: EFFICIENT. DURABLE. RELIABLE.



Pioneering Technology: The improved drying process provides homogeneous air distribution at all levels thanks to optimized air flows, resulting in constant, uniform drying results.



Individual Customer-Specific Solutions: Meeting each customer's specific requirements, Grenzebach designs plants and systems individually in terms of thermal parameters, airflow, electrical equipment and cycle times.



Durability: The integrated airlock systems and optional fresh air pre-heaters reduce condensation and resinification, providing optimal conditions in the dryer. Furthermore, we use aluminized sheet metal construction throughout the entire dryer shell, contributing to high corrosion resistance and a long service life.



High Plant Availability: Innovative measures reduce cleaning and maintenance costs and times, helping to increase plant availability.



Energy Optimization: Optimal insulation and advanced sealing systems minimize heat loss and support rapid heating. Controlled veneer feeding allows compensation of boiler power peaks.



Easy Access: The innovative sliding doors feature a special hinge design and durable, flexible stainless steel seals with Kevlar®. They can be easily operated with one hand, allowing easy access to the dryer.



Modular Flexibility: The dryer sections are 2.25 m long, allowing for customized drying lengths. They are available in four- or six-deck configurations with various working widths. Customized solutions are also available.



Reliability and Quality: Grenzebach veneer dryers are characterized by high reliability, minimized downtime, low energy consumption, and superior final product quality.

WE ARE YOUR SAFETY ROPE. FOR SAFE FEELING. FOR RELIABLE PRODUCTION.

By choosing Grenzebach, you enter a trusted partnership with a reliable journey partner throughout the entire life cycle of your plant. During the planning and implementation of your facilities, we stand by you as a knowledgeable sparring partner, offering advice and support. Our service team responds flexibly with customized services and products for unique challenges. Throughout the operational phase, our after-sales team helps to take care that the system is used optimally for as long as possible or adapted through upgrades to meet new requirements.

W-e SERVICE



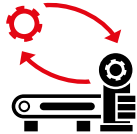
BEFORE REBUILD



DURING REBUILD



AFTER REBUILD



ORIGINAL PARTS

Providing top performance and value due to durability and reduced downtime

- » Fast response times for delivery of spare parts
- » High availability of critical components



ROLLING UPGRADES

Keeping plant performance at a high level, raising plant productivity, and extending life cycle

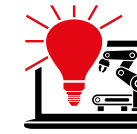
- » Dryer revamp
- » Dryer roof upgrade



EXCELLENT SERVICES

Optimizing technology availability, keeping output constantly high, and making usage sustainable

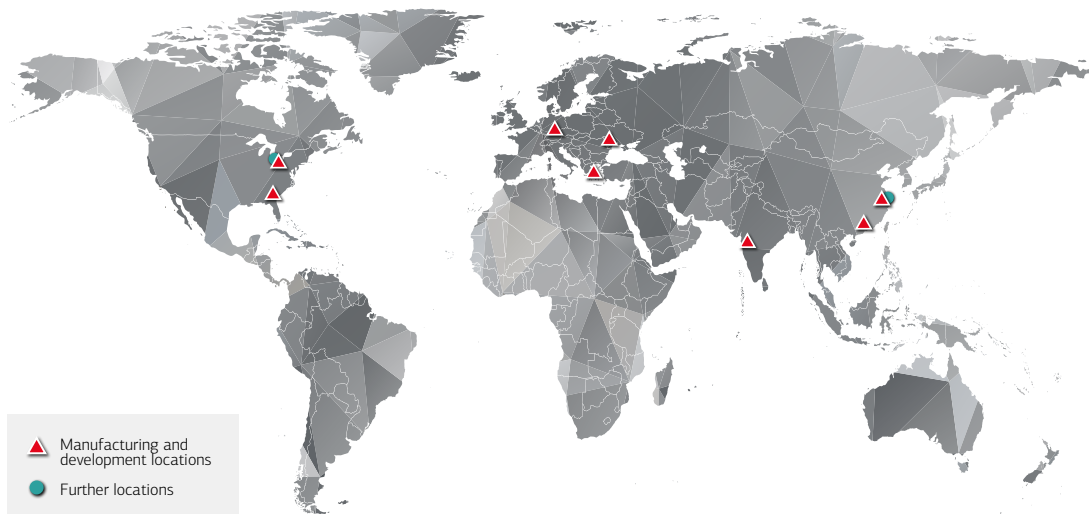
- » Mechanical veneer dryer inspection
- » Optimized chain slide rail
- » CFD calculation / optimization



FUTURE SERVICES

Use Grenzebach's digital services and benefit from intelligent, robust processes

- » SERICY.assist Recorder
- » SERICY.report KPI Dashboard



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