# MODULAR DOUBLE BELT PRESS FOR CONTINUOUS PRODUCTION PROCESSES



# FLEXIBLE & COST-EFFICIENT MANUFACTURING

The Modular Double Belt Press delivers efficient, continuous production for a wide variety of applications - from composites and flooring to synthetic flatware and construction materials. Its modular design allows you to configure product-specific arrangements, ensuring maximum adaptability. Thanks to its flexibility, different press types can be integrated into a single production line. The modular concept also makes customization simple, enabling you to add or remove components such as heating or cooling modules to meet your exact requirements. Plus, it minimizes downtime during service and maintenance, boosting overall efficiency and reliability.

## STEEL BELTS, BELT SYSTEMS & SERVICE FROM A SINGLE PROVIDER

From testing your products in our R&D Center to engineering and manufacturing a Modular Double Belt Press customized for your needs, complemented by Steel Belts, components, and full-service support, we provide everything you need in one complete solution.





# OUR EXPERTISE

**PRECISE PROCESS CONTROL BASED ON PRODUCT SPECIFIC COOLING CURVES**

**QUICK MODULE EXCHANGE WITHOUT DISMANTLING THE STEEL BELT FOR BELT WIDTHS UP TO 1,500 MM | 59.06 IN**

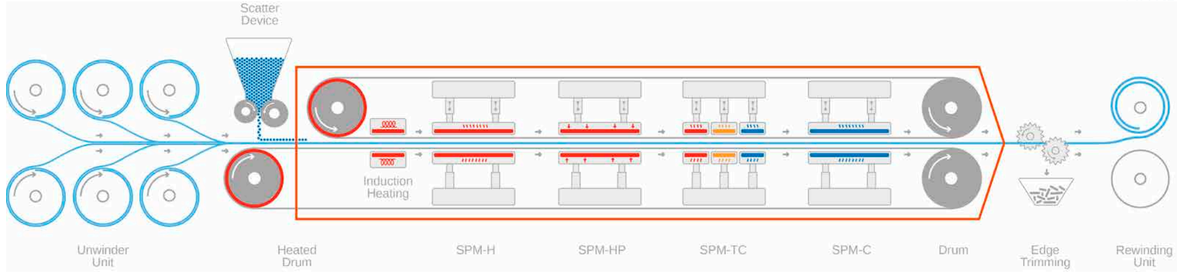
**MODULE SETUP TAILORED TO THE SPECIFIC PRODUCT REQUIREMENTS**

**R&D CENTER FOR FEASIBILITY TESTS, PROCESS EXPERTISE, & STATE-OF-THE-ART TECHNOLOGY, ENSURING OPTIMAL DECISION-MAKING**



# CONTINUOUS PRODUCTION PROCESS FOR COMPOSITES, FLOORING & PRESSED SHEETS

EXPLORE THE FUNCTIONALITY OF OUR MODULAR DOUBLE BELT PRESS




**PRESSURE**

Up to 50 bar | 725 PSI ensures highest impregnation levels

**TEMPERATURE**

Operating temperature up to 420 °C | 788 °F for processing of high-end polymers

**PROCESS**

Isobaric & isochoric process in one line

**ALL IN ONE**

Double Belt Press, utilities, up- & downstream from one supplier

# MODULAR SETUP WITH DIFFERENT PRESS TYPES IN A SINGLE MACHINE

In today's fast-changing market, production companies need to stay agile and adapt to evolving demands. At Berndorf Band Group, we combine decades of expertise with advanced simulation capabilities and a scientific approach to deliver tailored solutions that balance flexibility and cost efficiency.

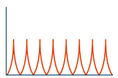
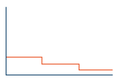
Our Modular Double Belt Press features a highly adaptable design, enabling a wide range of configurations and seamless integration of multiple press types. This versatility allows you to produce nearly all flat and sheet products while ensuring optimal performance for both current and future processing requirements.

**High Output & Energy Efficiency**
Achieves production rates of over 6,000 m² per hour with low energy consumption thanks to perfectly balanced thermal devices and modules.

**Precision & Surface Quality**
The sliding plate design ensures excellent heat conductivity, uniform pressure application, and delivers smooth surface finishing with high-quality results.

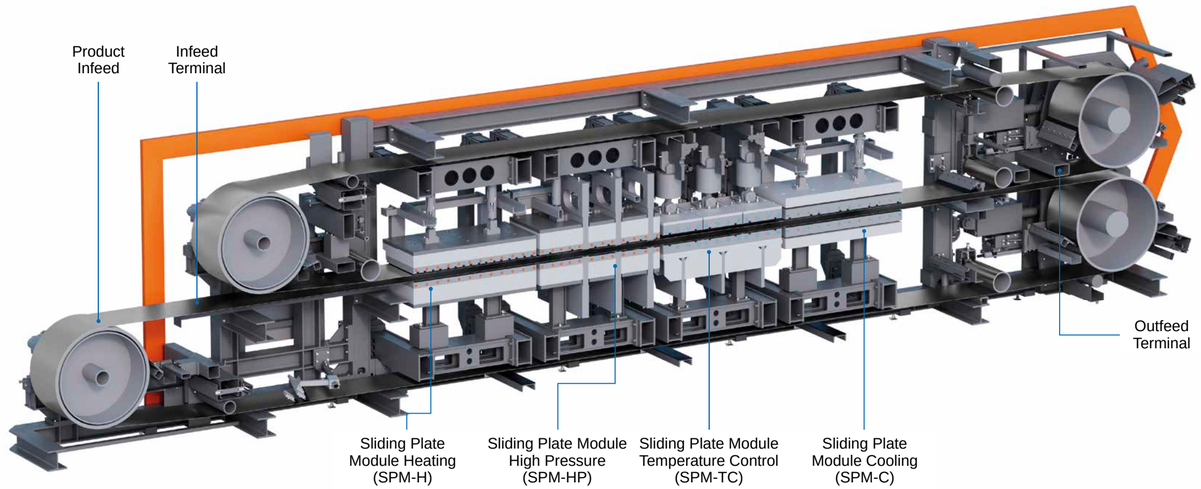
**Modularity & Service Efficiency**
Flexible module arrangement enables the integration of different press types and reduces downtime during service and maintenance.

## VARIOUS MODULES AVAILABLE

| | For thermoset based products | | For thermoplast based products | | |
|---|---|---|---|---|---|
| | Roller Carpet Module (RCM) | Fixed Roller Module (FRM) | Sliding Plate Module (SPM) | Sliding Plate Module – High Pressure (SPM-HP) | Sliding Plate Module – Temperature Control (SPM-TC) |
| Pressure characteristics* |  |  |  |  |  |
| Process pressure | max. 20 bar \| 290 PSI | max. 10 kN/m \| 57 PLI | max. 6 bar \| 87 PSI | max. 50 bar \| 725 PSI | max. 6 bar \| 87 PSI |
| Process temperature | max. 250 °C \| 482 °F | max. 250 °C \| 482 °F | max. 420 °C \| 788 °F | max. 420 °C \| 788 °F | 40-250 °C \| 104-482 °F |
| Belt width up to | 2,150 mm \| 84.65 in | | | 1,550 mm \| 61.02 in | |
| Product feeding width up to | 2,000 mm \| 78.74 in | | | 1,450 mm \| 57.09 in | |

**Schematic illustration – more details available upon request.*






*Illustrative image with an example module configuration.*

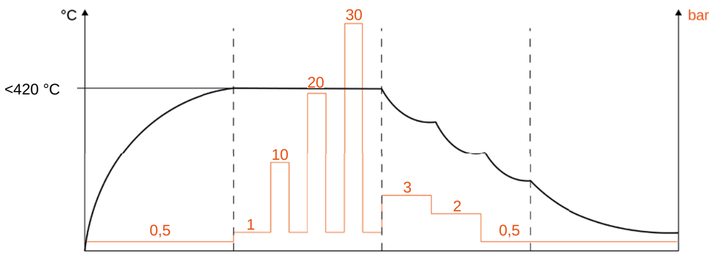
## ADDITIONAL MODULES

Roller Carpet Module (RCM)



Fixed Roller Module (FRM)





# R&D CENTER FOR FEASIBILITY STUDIES OF YOUR PRODUCTS ON OUR MACHINES

At our R&D Center in Berndorf, Austria, you can experience the full advantages of the Modular Double Belt Press firsthand. Combining deep process expertise with state-of-the-art technology, we provide the ideal foundation for selecting and configuring modules tailored to your product requirements. Our team conducts customized process testing - from product development and process design to test execution and manufacturing. Explore continuous production of sheet materials such as composites, flooring, synthetic flatware, and building and construction materials. With a wide range of press modules and integrated upstream and downstream equipment, our facility ensures comprehensive testing capabilities for your application needs.

## OUR SERVICES

### FREE ADVICE FROM INTERNATIONAL EXPERTS

At our R&D Center, our specialists help transform your product ideas into reality. Combining perfectly coordinated expertise with cutting-edge technology, we create the ideal foundation for future production processes - giving you the confidence to innovate and succeed.

### CUSTOMIZED PROCESS DEVELOPMENT

Every production process is unique. That is why we provide tailored services with comprehensive packages that include everything from feasibility studies to design, manufacturing, and installation of your fully customized plant. Our goal is to deliver a solution perfectly aligned with your product and performance requirements.

### OPTIMAL PROCESS & SYSTEM PARAMETERS

We specialize in fine-tuning critical parameters, such as production speed and temperature profiles, to achieve your desired product characteristics. By leveraging the expertise of our specialists, you ensure maximum performance, efficiency, and quality in every step of your process.

### PRODUCTION OF PRODUCT SAMPLES & BATCHES

Unique production processes demand continuous quality control of the final products. During research and testing, we manufacture product samples and small batches to validate performance and ensure the highest quality standards for your products.



DISCOVER OUR R&D CENTER IN AUSTRIA

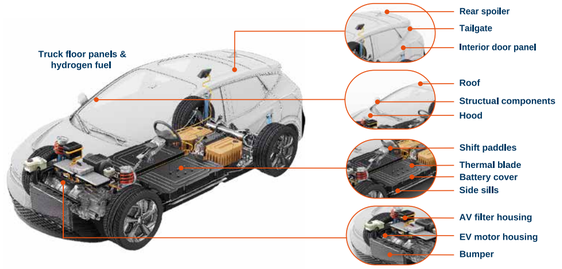
### PROVISION OF DIFFERENT BELT SYSTEMS

Our R&D Center is equipped with a wide range of Belt Systems to meet individual production requirements and specifications. Working closely with you, we develop high-quality products while ensuring efficient and reliable processes for your future production.



# EXPANDED RANGE OF PRODUCT POSSIBILITIES UTILIZING OUR MACHINERY







? The end products manufactured on our Steel Belts and Belt Systems are as diverse as the industries we serve. If you don not see your product listed, simply reach out - we will work with you to develop the ideal solution for your application.

# OUR WORLDWIDE SALES & SERVICE NETWORK

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**FIND YOUR LOCAL CONTACT**

berndorf BAND GROUP

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