Modular Double Belt Press

Your worldwide flexible solution
Flexible production processes

One of the challenges for production companies is the ongoing change in demand. The Berndorf Band Group, together with its customers, finds ways to produce flexible and cost-efficient at the same time. Therefore, the modular double belt press offers the best solution for current and future processing needs.

The modular system of the double belt press allows the combination of any number of heating and cooling modules. Due to its flexibility, different press types can be combined in a single production line. The modules can be rearranged at any time, which enables an efficient use of the machine and the realization of a wide variety of manufacturing processes.

“...A major advantage of the modular double belt press is the flexible module exchange without belt removal. In this way, processes can be adapted to the respective product requirements by changing the modules quickly and easily. In addition, the installation of additional elements significantly increases the production capacity. Available are Roller Carpet Modules, Fixed Roller Modules, Sliding Plate Modules and Calender Modules.”

Christian Nagl
Director Sales & Project Management
Since we have relied on the quality of Berndorf steel belts for many years, the decision was easy to trust in the expertise of the leading steel belt machine manufacturer for our new production line. Thanks to the competence of the technicians and the unique characteristics of the double belt press, it is now possible to produce plastic plates up to a thickness of 45 mm. During the entire project process, we were able to rely on the specialists of Berndorf Band Engineering to realize the project in a timely and cost-effective manner.

Ing. Albert Fritz
Senior Manager TD
Isosport Verbundbauteile GmbH

Individual production tests in Berndorf

In the Research & Development Center, customers can convince themselves about the advantages of the modular double belt press. The combination of competent experts and modern technology offers an optimum decision factor for the selection and arrangement of the press modules in order to meet the product requirements.

Services

- Individual module arrangements
- Support by experts for optimal parameter settings
- Heating or cooling modules available (RCM, FRM, SPM, CAM) up to 400°C
- Scatterig device
- Un- and rewinder
- Specification for the production unit
Flexible module arrangement with different press types in one single machine

- Module exchange without belt dismantling
- Operating temperature up to 400 °C | 752 °F
- Pressure up to 30 bar | 435 PSI
- Different press types in a single machine
- Steel belts, belt systems and worldwide service from one source

HIGHLIGHTS
- Sliding Plate Module (SPM)
- Roller Carpet Module (RCM)
- Fixed Roller Module (FRM)
- Calender Module (CAM)

Product infeed (endless material or granulate)
Infeed Terminal
Roller Carpet Module (RCM)
Fixed Roller Module (FRM)
Sliding Plate Module (SPM)
Calender Module (CAM)
Outfeed Terminal
Symbol picture, all modules available for cooling or heating
# Modules available

<table>
<thead>
<tr>
<th></th>
<th>Roller Carpet Module (RCM)</th>
<th>Fixed Roller Module (FRM)</th>
<th>Sliding Plate Module (SPM)</th>
<th>Calender Module (CAM)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Pressure characteristics</strong></td>
<td><img src="image" alt="Pressure graph" /></td>
<td><img src="image" alt="Pressure graph" /></td>
<td><img src="image" alt="Pressure graph" /></td>
<td><img src="image" alt="Pressure graph" /></td>
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<tr>
<td><strong>Max. pressure</strong></td>
<td>30 bar</td>
<td>435 PSI</td>
<td>2 bar</td>
<td>29 PSI</td>
</tr>
<tr>
<td><strong>T&lt;sub&gt;max&lt;/sub&gt;</strong></td>
<td></td>
<td></td>
<td>400 °C</td>
<td>752 °F</td>
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</tbody>
</table>
**Dimensions**

<table>
<thead>
<tr>
<th>Max. product width [mm]</th>
<th>Drum Ø [mm]</th>
<th>Belt width [mm]</th>
</tr>
</thead>
<tbody>
<tr>
<td>750</td>
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<tr>
<td>950</td>
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<tr>
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<td>2,650</td>
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<tr>
<td>3,100</td>
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<td>3,150</td>
</tr>
</tbody>
</table>

More details and dimensions upon request

**Composites/Fibre Reinforced Plastics (FRP)**

- Organo sheets, Thermoplastic prepregs, - tapes, - laminates and - panels
- Reinforcement: Glass-, Carbon- and Natural-Fibers
- Polymers: PP, PA6.6, PC, PPS, PTFE, PEI, PEEK, PI, etc.

**Floorings**

- Luxury Vinyl Tile (LVT)
- Cork polymer composite (CPC)
- Mineral polymer composite (MPC)
- Wood plastic composite (WPC)