

PRESS RELEASE

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Ensinger expands its production capacity for thermoplastic composites

New double belt press at the Rottenburg-Ergenzingen site

Plastics processor Ensinger is investing in production capacity expansion for its Composites division. Very soon, a high-performance double belt press will begin operation in Rottenburg-Ergenzingen. The new facility enables the efficient production of thermoplastics composite materials.

The double belt press from Austrian plant manufacturer Berndorf Band Engineering can be adapted to the specific requirements at any time. Flexible combination of individual components such as heating and cooling modules, and also of a variety of press types, is possible. The modular construction permits the completion of complex work steps on a single production line.

Continuous production process

Ensinger will use the new facility to mass-produce fibre-reinforced composites in a continuous production process, at temperatures of up to 400°C. By bringing the double belt press on stream, Ensinger is expanding its range of materials for demanding, high-temperature applications.

The Composites product portfolio includes – among other things – continuous fibre-reinforced semipregs and prepregs along with organosheets, i.e. multi-layer, fully impregnated and consolidated fibre composites. The double belt press can be used for processing unidirectional (UD) materials, UD cross ply materials, laminates and sandwich components with a variety of core materials such as foam or honeycomb. Combinations of textile and polymer matrix materials such as carbon, glass, aramid and natural fibres are also viable. Powder coating and film impregnation are available for impregnation purposes.

“By expanding the value added chain and our production capacities, we will be even better placed to meet the worldwide demand for thermoplastic composites. This investment enables us to use grown opportunities in all segments and to strategically position ourselves in the global market for thermoplastics,” says Daniel Grauer, who is responsible for international business development in Ensinger’s Composites division.

Engineering applications

The tailor-made, cost-efficient engineering composite solutions from Ensinger, which include flame-retardant materials, are perfect for automotive engineering applications and the aerospace industry, in other words branches of industry where functional, lightweight components are required. The sustainable polymer solutions are particularly suitable for passenger aircraft, drones and UAVs, where they replace thermosetting or metal structural parts and components.

More information: www.ensingerplastics.com/en/composite-engineering-prototyping

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The **Ensinger Group** is engaged in the development, manufacture and sale of compounds, semi-finished materials, composites, technical parts and profiles made of engineering and high-performance plastics. To process the thermoplastic polymers, Ensinger uses a wide range of production techniques, such as extrusion, machining, injection moulding, casting, sintering and pressing. With a total of 2,700 employees at 34 locations, the family-owned enterprise is represented worldwide in all major industrial regions with manufacturing facilities or sales offices.

The **Berndorf Band Group** is the global leader in the production of Steel Belts and Steel Belt Systems. Operating worldwide with locations in Asia, Europe, North and South America, the group consists of the parent company Berndorf Band, nine subsidiaries and worldwide partners.



Picture caption (Image © Berndorf Band Engineering GmbH):

Plastics processor Ensinger is expanding its machinery portfolio for the production of thermoplastic composites in the form of a high-performance, double belt press.

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