

Production technology for flexible wood/paper fiber insulation boards





QUALITY ALONG THE LINE

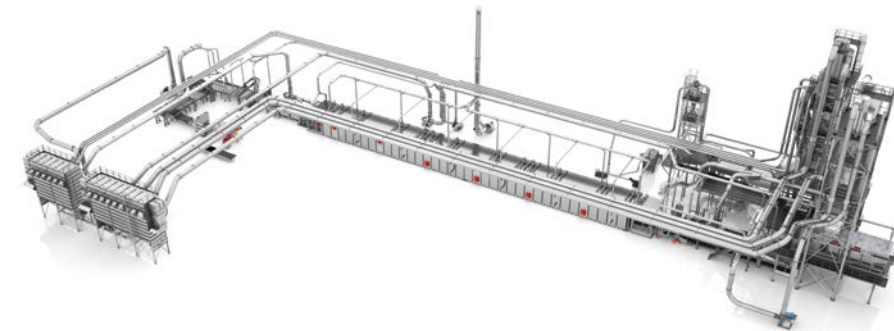
The rise in energy costs and the demand for environmentally friendly insulation materials drove Grenzebach's development of a wood and recycled paper insulation board line. This technology uses organic fibers from de-fiberized wood chips or recycled waste paper fibers with thermoplastic **bicomponent** fibers or other binders to form insulation panels with physical properties equal to or better than insulation material from inorganic fibers at moderate energy consumption. As experienced automation specialist, we design and supply the complete production line, from fiber processing to the final cut and packaged product. Key components such as the fiber metering and mixing area and the flexible heating oven system enable producing a wide range of products.

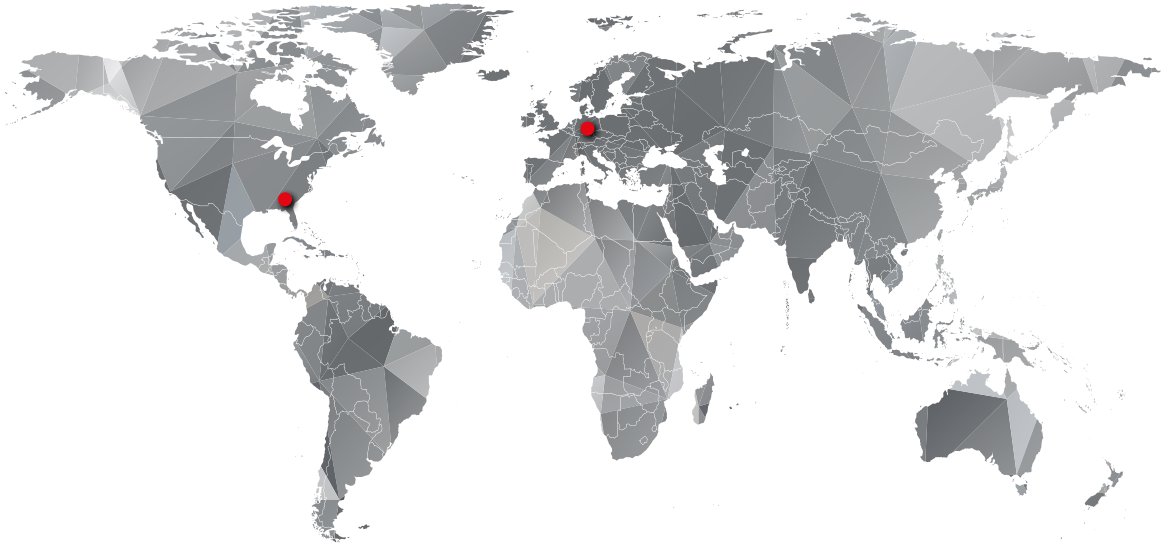
We plan, design and manufacture:

- » Wood chip storage and preparation systems
- » Wood fiber production systems: refiners
- » Systems for fiber production from recycled paper: whirlwind mills
- » Wood fiber drying systems: flash tube dryers
- » Fire retardant metering systems
- » Fiber preparation systems: dry wood fiber bins and belt scales
- » Bico fiber preparation systems: bico openers and belt scales
- » Wood fiber and bico fiber mixing systems
- » Board forming systems: dosing bins, belt scales, prepresses
- » Air flow press curing ovens
- » Air cooling zones
- » Cutting and stacking lines
- » Packing lines
- » Pneumatic fiber conveying systems
- » Dust collection systems
- » Electrical control systems

GENERAL PRODUCTION DATA

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|--------------------------------|--|
| Capacities: | 3,500 - 10,000 kg/h |
| Product thickness: | 40 - 300 mm (made of paper fibers: 40 - 80 mm) |
| Working width: | 1,350 mm, 2,800 mm or 3,100 mm |
| Sizes of final product: | Length: 1,200 - 1,300 mm Width: 350 - 900 mm Density: 40 - 60 kg/m ³ (made of paper fibers: approx. 75 kg/m ³) or as per requirement |





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