

**REIFENHÄUSER
EXTRUSION GMBH
& CO. KG**

Foundation

- 1911

Turnover

- 450 million €

Employees

- Approx. 1,200

Branches

- Machine building for the plastic processing industry

Key materials

- All kinds of plastics
- Wood Polymer Composites (WPC)
- Biopolymers

Key products

- Extrusion lines
- Compounding lines
- Twin Screw Extruders
- Single Screw Extruders



The Company

Innovative force as a motor for success

Constant research and development of Reifenhäuser EXTRUSION's line concepts are the focus of the leading manufacturer of high performance extrusion systems. The resulting innovations ensure the company's competitive edge worldwide. The use of new raw materials, in particular, and the associated changes in process technology require ever new solutions.

The benefit of its customers is always given the highest priority in all actions and considerations of Reifenhäuser EXTRUSION. Competitive advantages are generated from its employees' creativity, from superior and economically efficient technology, from speediness and convincing customer service.

The comprehensive portfolio includes extrusion lines for thermoforming sheet, cast film and WPC in addition to extruders and components. Future-oriented products, market-driven strategies and direct relationship with customers are ideal prerequisites that allow rapid and direct response to changes in the marketplaces.

Products:

Since many years, Reifenhäuser began to focus on the extrusion of wood fibre reinforced plastics. Depending on the requirements, different types of extruder-systems are used.



Direct-Extrusion BiTrudex 115 II.

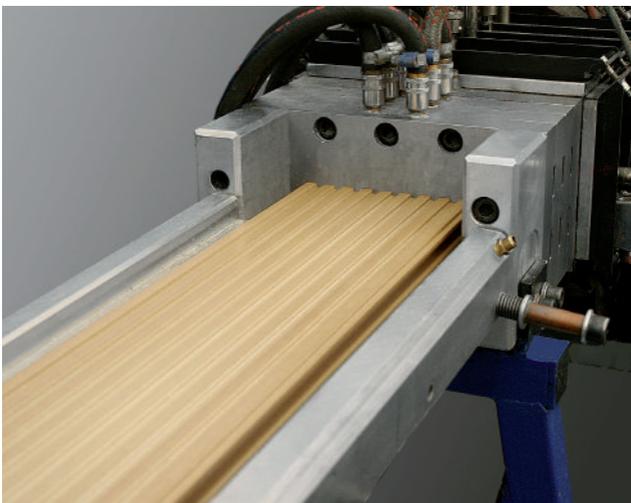


The basic component of Reifenhäuser WPC production lines are “Bitruder” twin-screw extruders. Available in market-conforming sizes from 65 to 135 mm screw diameter and provided with parallel, counter-rotating intermeshing screws they offer ideal prerequisites for the processing of wood fibers and thermoplastic materials such as PE, PP and PVC.

Beside compound extrusion, Reifenhäuser is increasingly placing the future-oriented, flexible direct extrusion process. This technology combines mixing, melting and direct processing of the individual components into the final product (profiles, pellets) in a single operation.

The latest developments in direct extrusion enable higher extrusion capacities than common compound extrusion systems. The “Bitrudex” direct extrusion technology is the basis of such an efficient WPC-production-process. Key components are a single-screw extruder and a counter-rotating twin-screw extruder combined to form a cascade-like assembly. This design enables fibres to be processed with about 10 % humidity at speeds at a broad recipe variation. Up to 80% wood are extruded at high output rates. In addition, this process allows the production of high-strength, UV-stable WPC profiles with PMMA as polymer matrix. The Bitrudex-system itself requires less space and has lower energy consumption than comparable compound extrusion system.

The WPC-portfolio includes an in house tooling-design, broad research and development experience, a lab-line for trials as well as world-wide-service.



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