



REIFENHÄUSER EXTRUSION TECHNOLOGY GMBH & CO. KG



Reifenhäuser EXTRUSION TECHNOLOGY

Foundation

- 1911

Turnover

- Reifenhäuser Group
450 million €

Employees

- Reifenhäuser Group
approx. 1,300

Branches

- Machine building for the plastics processing industry

Key materials

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

Key products

- Extrusion lines
- Compounding lines
- Twin screw extruders
- Single screw extruders

Company

Reifenhäuser Extrusion Technology is a member of the family owned Reifenhäuser Group, which was founded in 1911. The highly specialized German company is the biggest network for plastics extrusion technology. Within the group of companies we specialize in the development and manufacture of extruders, wood-polymer composite plants (WPC) and compounding plants. As an innovative provider of technology services, we offer all standard extruder designs such as screws, extruders, counter-rotating twin-screw extruders and co-rotating twin-screw extruders. Our goal: better performance and greater energy efficiency with every further technological development. This includes also the further development of technologies that support the processing of bio-polymers.

Extruders

Single screw and twin screw.

We develop all kinds of extruders for high quality processing of bio-polymers.

Wood polymer composite technology

Lines and profile design for high productivity.

Reifenhäuser Extrusion Technology develops and produces complete lines for the extrusion of wood polymer composite profiles, a combination of Natural fibres, virgin or recycled polymers and additives. With own profile designs, new recipes and a lab line for research & development we support our customers in realizing their production. We offer two different concepts for the processing of WPC: compound extrusion, the easy two-stage WPC processing and direct extrusion, the flexible single-stage WPC production.

Converting
Stacking table or storage unit
for manual handling.

Conveying
Roller conveyor for
additional cooling space
for brushing, milling or
marking of the profile
surface.

Cooling
Cooling tank for water
cooling with optional
chilling unit.

Extruding
Reifenhäuser Extruder
for homogenius mixing
and high output with
dosing unit for plastics
and additives.

Feeding
Big-Bag station for
feeding of natural
fibres or permixed
compounds.



Cutting
Automatic cutting saw
with dedusting unit.

Tooling & Calibration
Specific extrusion die design
according to the product
dimensions, compound
specifications and line
performance demands.



Compound extrusion

Compound extrusion is a two-stage process in which the individual recipe components are mixed and cooled before the mixture (compound) is processed in a counter-rotating twin-screw extruder into WPC profiles.

Advantages

- One compounding plant can be used for several extrusion or injection moulding machines
- Basic extrusion know-how is sufficient

Direct extrusion

Direct extrusion combines mixing, melting and processing of the individual components into the final WPC product in a single operation. This enables very high production capacities. The basis for this highly efficient WPC production is the Bitrudex technology.

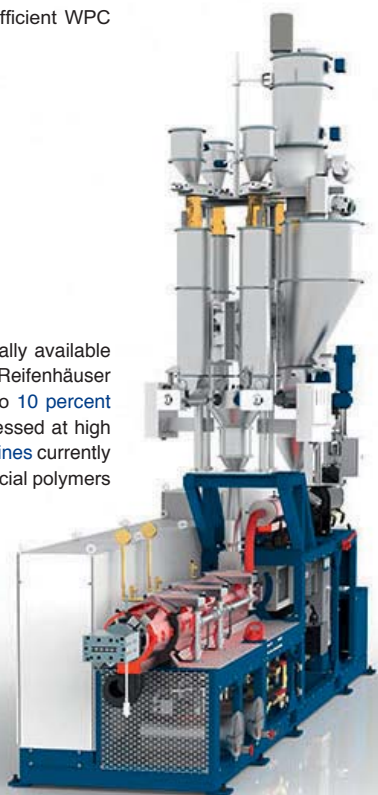
Advantages

- Less production equipment
- Higher wood or natural fiber content
- Lower space consumption
- Fewer operators
- Fast recipe and product development
- Energy-efficient production

Bitrudex Technology: Sustainable, Fast, Flexible

Direct Extrusion Line Bitruder

The basic concept behind WPC production is to process locally available fast-growing renewable raw materials instead of tropical wood. Reifenhäuser Bitrudex technology enables natural raw materials with up to **10 percent humidity** and a **wood content of up to 80 percent** to be processed at high production speeds. Reifenhäuser lines are the **fastest running lines** currently available in the market. In addition, the system can handle special polymers such as a **high-strength, UV stable PMMA matrix**.



Direct Extrusion Line Bitruder



Reifenhäuser

EXTRUSION TECHNOLOGY

ReiWood: The innovative WPC profile

A perfect match of market requirements, recipe, profile design and line technology is needed to obtain a product that combines quality and cost effectiveness. That is precisely what we have obtained with ReiWood, the latest WPC development of Reifenhäuser Extrusion Technology. The new profile enables the production of WPC panels that surpass VHI standards while reducing the production costs by 50 percent. The combination of performance and profile design makes it possible: ReiWood uses 20 percent less material and can be produced significantly faster than comparable products.



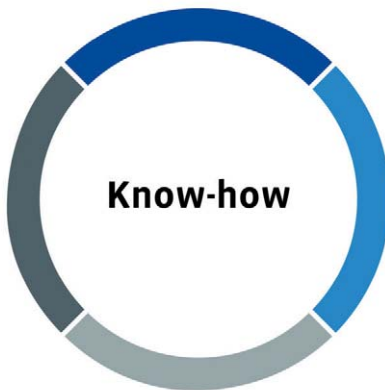


WPC Consulting

From product idea to further development.

We are happy to pass our know-how along the whole value chain on to our customers. Exchange views with our experts at an early stage – for a perfect match of market requirements, product idea, technology and possible developments.

- **Can local raw materials be used?**
We analyse the technology.
- **Is your product idea marketable?**
We support you in conducting a targeted market analysis.
- **Do you need more certainty?**
Launch your WPC products at first on a test basis.
- **What is your ROI?**
We assist you in calculating the profitability.



- **recipe development**
- **profile design**
- **market**
- **line technology**

Contact

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