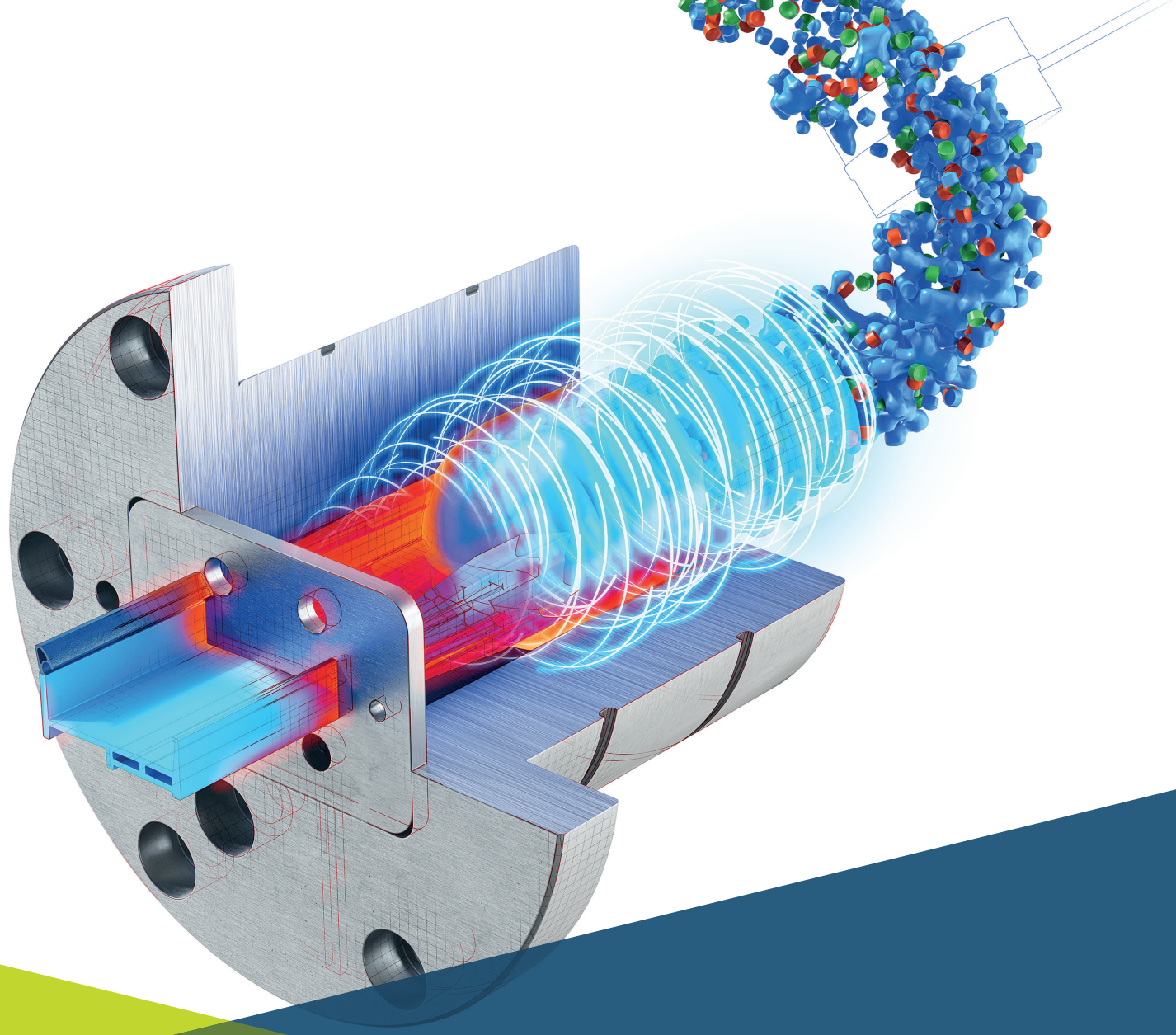


Profile extrusion

Technical profiles | Product information

JANSEN

Multicomponent extrusion for complex extrusion solutions with profiles.

Jansen is your professional partner for the development and production of tailored thermoplastic special solutions.

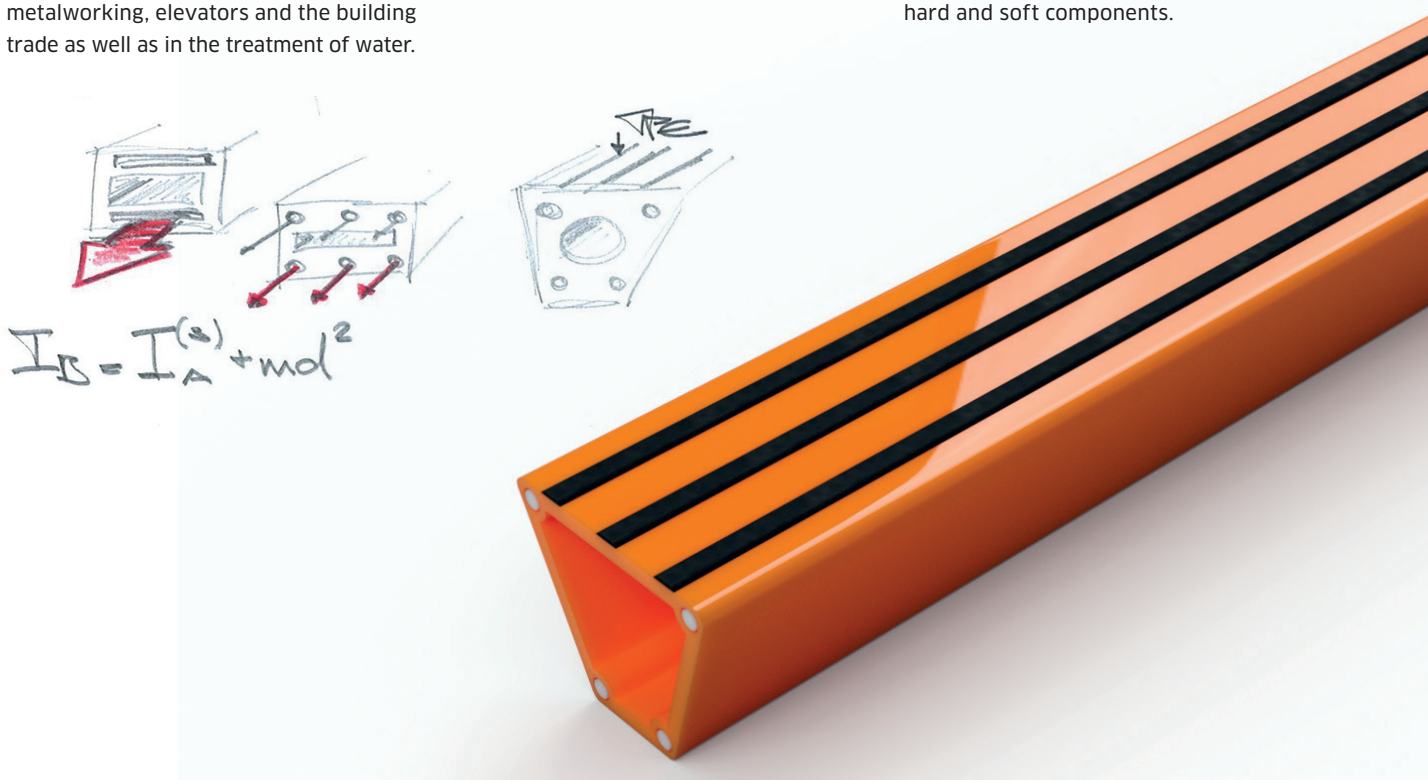
Jansen has been producing tubes and profiles from thermoplastic materials for more than 60 years. This longstanding experience underlines the high level of technical expertise we have in working with such a multifaceted material as plastic in order to develop sophisticated assemblies and individual special solutions.

Profiles made from a wide range of thermoplastics are produced using extrusion technology and are used in the furniture industry, in vehicle, materials handling, warehouse and lighting technology, in metalworking, elevators and the building trade as well as in the treatment of water.

Regardless of the place in which you want to use your plastic profile and the requirements it must meet – our engineering team will choose the optimal material for you and will work together with you to develop innovative, individual and high-quality solutions for every application and every requirement. It uses the versatility of extrusion technology as well as our prefabrication options to design this technologically valuable material in line with your wishes.

Supplemented by our in-depth expertise in the area of steel and stainless steel, as well as our inhouse production of steel profiles, we are in the unique positions of being able to provide genuine added value in terms of the design of structures, production and the understanding of your requirements.

As an extrusion specialist, Jansen is proficient in technologies such as hybrid technology, multilayer extrusion and coating procedures, and thus guarantees solutions that meet the various requirements of a structure or that combine hard and soft components.



Our range of profiles for your individual solutions

The advantages of polymer materials are no secret. Lightweight and cost-effective, the materials offer specific levels of stability and rigidity as well as a high degree of design flexibility and the ability to be combined with other materials. The materials are also resistant to UV rays, corrosion, acids and solvents.

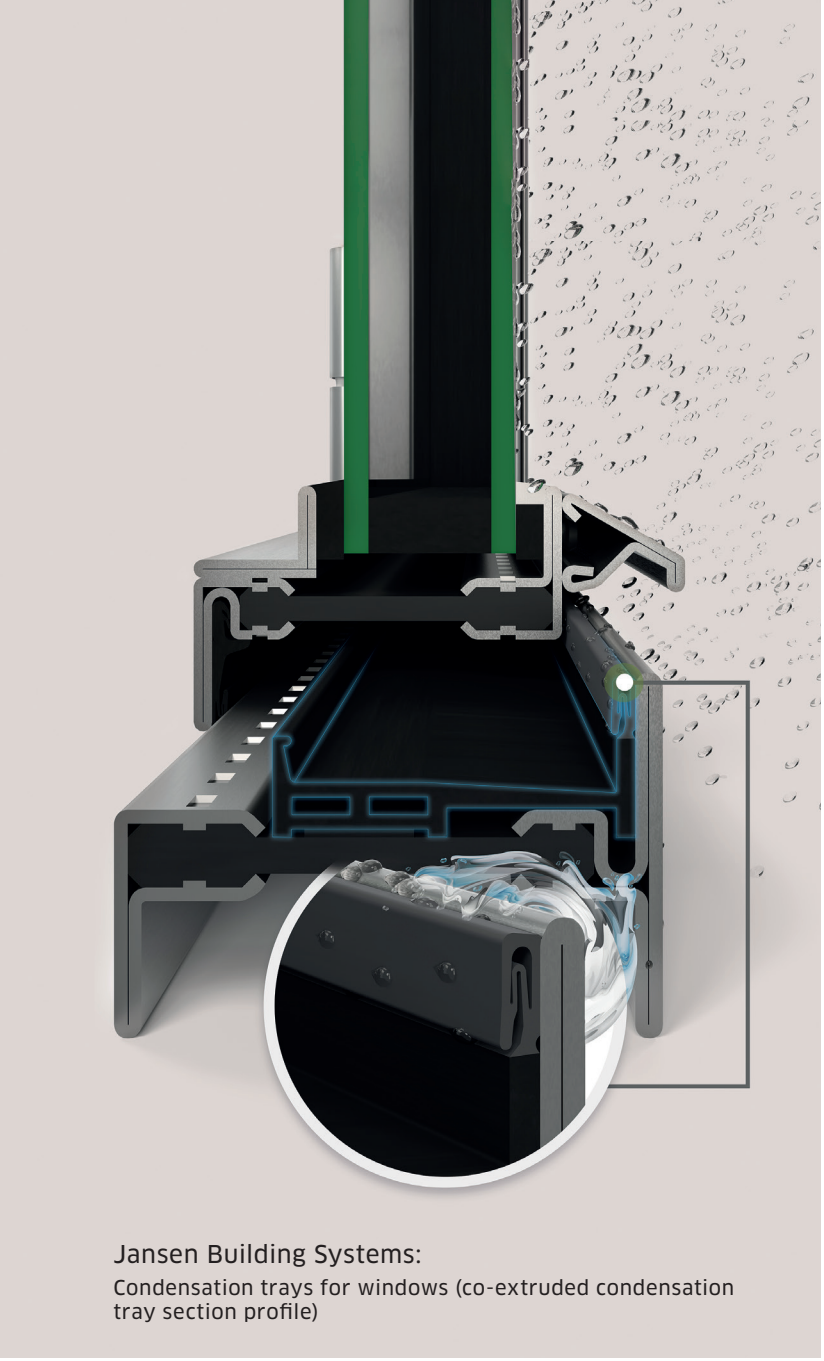
Our competences

Our product and service portfolios are as versatile as the materials themselves. Our extensive professional competence and materials expertise as well as many years of experience make us specialists from the development to the manufacture of optimal solutions with optimal customer benefits.

Regardless of whether we are producing high volumes or short runs, our efficient Production division is distinguished by short response times, streamlined processes and a high degree of flexibility and quality, thus allowing for the processing of various combinations of materials.

Jansen's longstanding combination of expertise in plastics and steel is exceptional. The inhouse plastic and steelworks guarantee the use of unique synergies and maximum innovation, e.g. in coating technology.

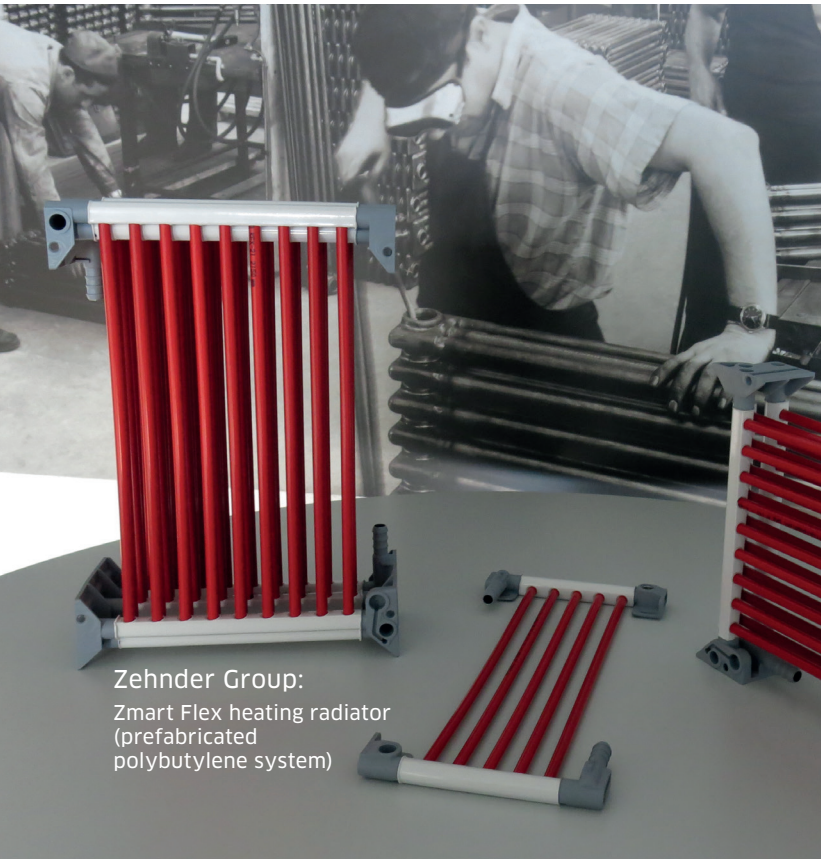
Packing	• Thermoforming • Mechanical machining such as sawing, drilling, punching, slitting, piercing, welding, embossing, printing and gluing. Also with short runs. • Gluing component assemblies • PUR foaming • On-site services
Hybrid technology	Combination of steel/aluminium with plastic
Two components	Combination of hard and soft components
Coating processes	The coating of components made from any material, such as steel, aluminium or plastic
Multilayer technology	The manufacture of extrudates made of multiple layers of similar or different plastics, in which mechanical, chemical and optical characteristics can be combined.
Corrugation	The use of interface processes to achieve the specific surface quality



Jansen Building Systems:
Condensation trays for windows (co-extruded condensation tray section profile)

Müller-Steinag Baustoff AG, Rickenbach:
Gardening/terrace (edge rail profile)

WABAG Wassertechnik AG, Winterthur:
Drinking water filter system (filter profile)



Zehnder Group:
Zmart Flex heating radiator (prefabricated polybutylene system)

CEMproof AG, Sirnach:
Sealing technology (injection hose system)

We maintain long-term partnerships with our customers and suppliers. The close collaboration with our suppliers allows for the development of individual material formulations that are suitable for the relevant application of our customers.

Engineering

- Range of suitable thermoplastics
- Calculations of finite elements / simulation (FEM) for component calculation
- 3D component drawings
- Material and component design
- Evaluation of replacement materials for existing components
- Geometric optimisation
- Tool design and inhouse tool manufacture for mono, hybrid and co-extrusion products
- Inhouse servicing and repair workshop as well as a warehouse
- Execution of all production steps

Prototyping

- CAD simulations
- Project-specific prototyping using a wide range of materials
- Project-related sampling (laser sintering or made from real materials)

Quality assurance

- Raw materials tests
- Welding tests
- Internal pressure tests
- Impact resistance tests
- Ring stiffness
- Tensile tests
- Cutting tests
- Layer thickness measurement
- Bending tests
- Ageing and weather tests

Logistics

- To safeguard the production processes of our customers, we take responsibility for the usage-compliant packaging, cost-effective storage and reliable transport of the profiles.

Laboratory

- Feasibility studies with respect to the mechanics, chemistry and the type of production
- Testing of pipe applications under internal pressure
- Infrared spectroscopy for material identification
- Moisture and water content measurements
- Filler identification
- MFR to characterise the flow properties of a thermoplastic under specific pressure and temperature conditions (plasticised material test)
- Chemical material verifications

Specialist advice

- Professional advice on site with technically adept sales representatives
- Comprehensive engineering expertise inhouse: Machine, plastic, materials, construction and industrial engineers
- In-depth knowledge in the area of assembly system through the machining of various materials in one building
- Extensive sector experience

Economic efficiency

- Lean production across the entire value chain ensures cost-effective solutions for our customers

Short-run production

- Realisation of short runs thanks to a wide range of process technology

Jansen AG

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