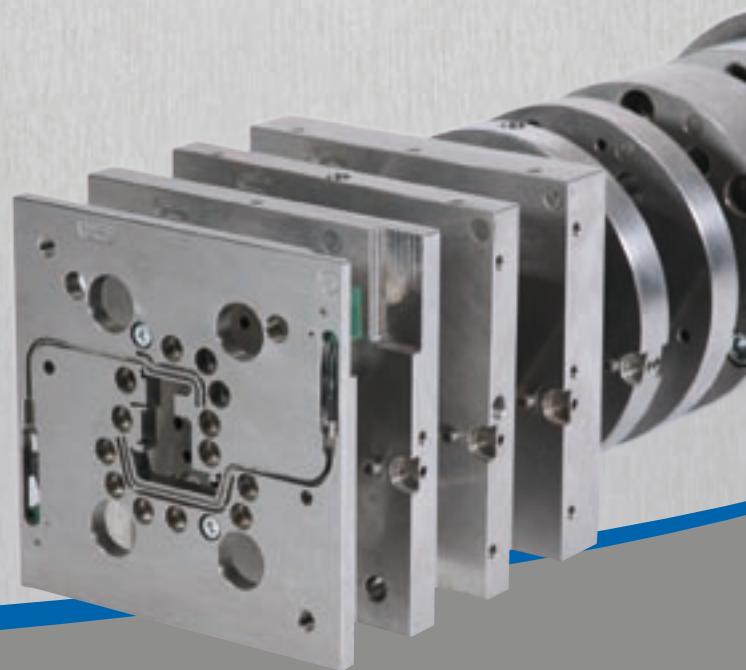


HIGH TECH EXTRUSION

Profile Tools



**HIGH TECH
EXTRUSION**

THEYSOHN | TECHNOPLAST | TOPF

SYNCHRONIZE TO PERFECTION

A MEMBER OF **HTI** GROUP

Adding Value Through Experience

Thanks to Technoplast and Topf, High Tech Extrusion has decades of experience in the designing and manufacturing of profile tools. The company brings to bear all of its knowhow in the processing of PVC and WPC materials.

High Tech Extrusion is an expert in the production of tools deployed in window profiles, foam profile, cable ducts, gutters, downpipes, sheets, windowsills and panels. High Tech Extrusion also has many years of experience in the designing of WPC tools used in decking, siding and fencing systems. These products are available as either hollow or solid profiles.

Topf is an expert on technical-use profiles. The Topf-calibration-system is assembled in a highly efficient and operator-friendly manner to enable the highly efficient production of profiles with hollow and flat sections combined in one.

On the other hand, Technoplast is the expert for PVC window profiles and extrusion tools for WPC.

The tool know-how of the two enterprises Topf and Technoplast together with the manufacturing knowledge of the company Austrotool are bundled in High Tech Extrusion at one location.

Highly effective and reliable procedures of order processing together with such advanced equipment and techniques as flow simulation, finite-element calculations and rapid prototyping have been developed. These are the underlying reasons for the reliance of the world's largest manufacturer of window profiles on High Tech Extrusion's tools and profile extrusion lines.

All members of the corporate group are experts in the designing and production of complete extrusion lines comprised of everything from extruders, profile tools and calibrating tables and haul off units, cutters with saw or guillotines, tipping- or sliding-tables and packaging systems.

Their knowhow extends to the production of window profiles, cable ducts, gutters, technical profiles and foam profiles with or without co-extruded surface layers. This wide range of know-how enables the High Tech Extrusion Group to supply complete plants and facilities.

Thanks to these decades of experience and to this stock of know-how in all of the phases of processing technologies used in producing PVC profiles, High Tech Extrusion is capable of designing tools meeting the specific needs of the customer and optimally fitting into the periphery of an extrusion line. These tools form the heart of concepts increasing productivity.



Profile Tools

Productivity

The compact assembly of High-Tech-Extrusion's tools minimizes cleaning cost during operation. The tools are easy-to-use. This reduces downtimes and thus enables high rates of extrusion productivity.

Highly efficient cooling achieved in the dry calibrators and in the patented whirlbath is characteristic of High Tech Extrusion's tools.

Visible and easy-to-follow water distribution at the tools permits excellent production supervision and makes it possible to plan regular tool maintenance in the enterprise.

- less unplanned standstill of the production
- short set-up and maintenance times
- highly stable processes

High Tech Extrusion has developed a new quick change system for profile tools based on its knowledge as a complete provider. Consequently, just a few touches are sufficient to change the tool fast and simply. The unification of all cables in only one strand for the connection of the tool to the machine is important for the success of the quick change system. Downtimes are thus kept to a minimum. The operation of OMNIA extrusion lines at high rates of productivity is guaranteed.

Reliability

The use of high-quality steels in the manufacturing of extrusion tools forms the basis for the long operating lives and high reliability of the dies and calibrators. The extremely simple and highly visible structure of the extrusion tools are reasons for the reliability of the profile tools made by High Tech Extrusion.

Joining tools from High Tech Extrusion with extruders and downstream equipment from the same provider make an additional increase in reliability possible due to the use of components attuned precisely to one other.

The OMNIA line features a connection to the extruder comprised of a single cable. The connection to the calibration table does not have any exposed tubes. Both features facilitate maintenance and get rid of potential sources of malfunctions. They thus minimize the output of defective products. High Tech Extrusion's tools are used successfully around in the world in extrusion lines also manufactured by other producers.

- steel and production quality of central European levels

Efficiency

The simple assemblies of High Tech Extrusion's tools and their link-ups - which dispense with nearly all tubes - to

the calibration table enable the highly efficient changes of tools. Tried and tested water and vacuum connectors and a quick-action coupling system that was developed by High Tech Extrusion for its new OMNIA extrusion line are available for this application. High Tech Extrusion has taken the best and most reliable technologies created by Topf Extrusionstechnik and Technoplast Kunststofftechnik and joined them into an entity capable of enabling our customers to achieve the highest rate of utility possible.

Optimized solutions of the tools for solid and hollow profile sections, specifically tailored for each purpose, are the basis for co-ordinated and efficient production conditions.

Customized solutions are the basis for the flexibility of High Tech Extrusion products. Comparative measurements have demonstrated that tools produced by High Tech Extrusion have a lower level of cooling water consumption than comparable products. This leads to further savings of energy.

Segmented extrusion dies, which are state of the art in profile-extrusion for solid and coextruded products, satisfy a precondition for highly efficient production using High Tech Extrusion's tools.

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Areas of Application of HIGH TECH EXTRUSION's Profile Tools

Window profiles

- single or double-strand main profile
- single, double or four-strand glass bead
- solid, core or capstock-coextruded
- main profiles of up to 5 m/min form part of standard operations
- available in addition are versions meeting customer needs and profile specifications

Foam Profiles

- single and double-strand
- Celuka (with or without coextruded covering layer)
- profile-specific extrusion production of up to 3 m/min pull-off speeds or of 350 kg/h of output

Cable Ducts

- single and double strand
- profile-specific extrusion production of up to 10 m/min pull-off speeds or of 300 kg/h of output

Gutters and Downpipes

- solid or coextruded covering layer
- combinations of materials available for coex covering layer: PVC/PVC; PVC/PMMA; PVC/ASA
- profile-specific extrusion production of up to 10 m/min pull-off speeds or of 300 kg/h of output

Sheets

- Sheets for windowsills or partitions
- 250 to 1000 mm profile width
- solid or coextruded covering layer
- profile-specific extrusion production of up to 2 m/min pull-off speeds or of 450 kg/h of output

WPC

- hollow and solid profiles for decking, siding and fencing systems
- applications for WPC materials wood/PVC 50/50, wood/PP 70/30 or for customer-specific formulas
- profile-specific extrusion production of up to 2 m/min pull-off speeds or of 300 kg/h of output

HIGH TECH EXTRUSION

The High Tech Extrusion Group is a pioneer in the extrusion industry. It is the only company in the world which supplies turn-key extrusion lines developed and manufactured on its own, i.e. the OMNIA series produced at its headquarters in Korneuburg, Austria.

Not only connoisseurs, but masters

Many companies claim they can build perfect components for extrusion lines, but what about the perfect interaction of these components operating as a whole? High Tech Extrusion understands the entire extrusion process and technology, and aligns the individual components to precisely harmonize with each other.

High Tech Extrusion relies upon the longstanding experience gained by the companies Theysohn in Korneuburg near Vienna, Topf and Technoplast Kunststofftechnik as well as Austrotool in Micheldorf, located in Upper Austria, along with Extruder-Komponenten Salzgitter in Germany. Each of these

firms has contributed its special know-how to this new technology group. Together these enterprises can develop and produce components which are optimally synchronized with each other to form complete pipe extrusion and profile extrusion lines.

The sales office in Pune, India is responsible for serving the Asian and East African markets, whereas the subsidiary in Moscow, Russia coordinates the group's business activities in Russia, Belarus, Ukraine and neighboring countries. High Tech Extrusion belongs to the High Tech Industries (HTI) Group.

On the basis of its various competence centers, High Tech Extrusion has the expertise required to support customers in designing and building complete production lines or take full responsibility on the customer's behalf. High Tech Extrusion provides you with comprehensive support and can also deliver turnkey facilities, whether your needs involve window profiles, technical profiles such as cable ducts, gutters, drainpipes, pipe extrusion lines, sidings, wood plastic composites from the mixing plant, extruders, tools, calibration tables, caterpillar haul off, saws and guillotines, pipe sleeve plants or tilting tables.

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