Ensinger GmbH . Rudolf-Diesel-Str. 8 . 71154 Nufringen . Germany

Ensinger at a glance

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Brief profile

The **Ensinger group** is engaged in the development, manufacture and sale of compounds, stock shapes, composites, finished parts and profiles made from engineering plastics. To process the thermoplastic engineering and high-performance plastics, Ensinger uses a number of production techniques such as extrusion, machining, injection moulding, custom casting, sintering and pressing. With a total of more than 2,500 employees at over 30 locations, the family-owned enterprise is represented worldwide in all major industrial regions with manufacturing facilities or sales offices.

Facts and figures	(Financial Year 2025/26)
Employees:	approx. 2,500 (with around 1,400 of these in Germany)
Revenue:	approx. EUR 500 million
Managing Directors:	Ralph Pernizsak, Björn Schneekloth
Year founded:	1966
Headquarters:	Nufringen, Baden-Württemberg (approx. 700 employees)



The headquarters of the Ensinger Group is located at the Nufringen site in the Böblingen district.

Other locations in Germany

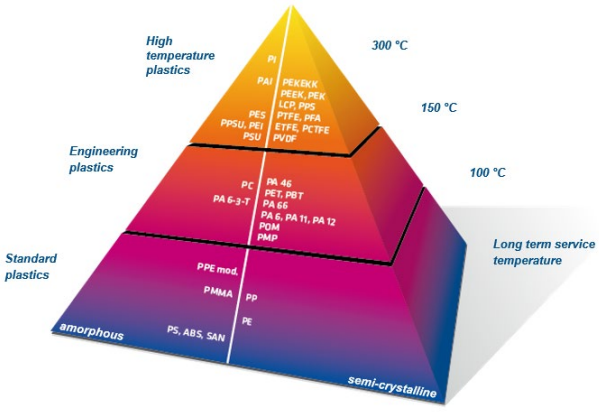
Cham, Bavaria (approx. 550 employees)
Rottenburg-Ergenzingen, Baden-Württemberg (approx. 150 employees)
Garbsen, Lower Saxony (approx. 10 employees)

Products / Processes

Ensinger produces compounds, stock shapes, finished parts, precision profiles and composites from thermoplastic engineering and high-performance plastics.

Sectors: Areas of application for engineering and high-performance plastics

These products are used, for example, in mechanical and plant engineering, in the automotive and aviation industries, and in medical technology. Technical solutions based on thermoplastic polymers are also widely used in the food industry, oil and gas industries, as well as in electrical engineering and semiconductor technology. Another business division manufactures products for the thermal insulation of windows, doors and façades.



The polymers processed range from **engineering plastics** (such as PA, PET and POM) to the category consisting of particularly temperature-resistant, **high-performance plastics** (PEEK, PPS, PSU, PI and others).

Business areas

Compounds

In the compounding process, plastic feedstock is melted and extruded into thin strands with the help of fillers or additives before being cut into granules. This refining process enables the properties of the plastics to be adapted to suit specific applications. Examples of modified plastics from Ensinger include products with improved sliding friction coefficients and materials with defined electrical properties.

Stock shapes

Stock shapes are a common form of delivery for plastic materials and have traditionally constituted Ensinger's core business. The most important manufacturing process is extrusion. Polyamide stock shapes are also produced by means of custom casting.

Machining then converts the plates, rods or tubes into technical precision parts.



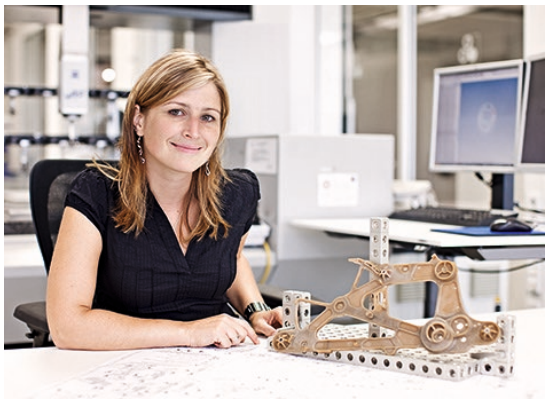


Top: Plates, rods and tubes.

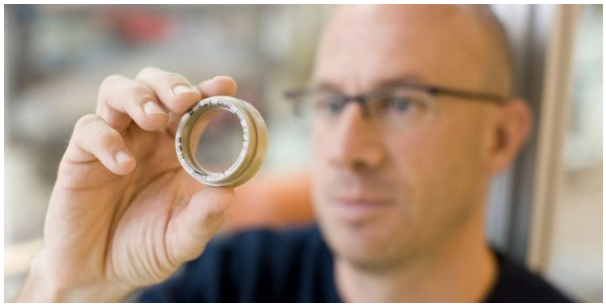
Left: High-bay warehouse for stock shapes at the Nufringen site.

Injection-moulded finished parts

The injection moulding process enables the efficient series production of technical components and assemblies made from high-performance plastics. For example, spherical shells are manufactured for the automotive industry. Ensinger also produces machine components such as bearings, housings, bushings, levers, gear wheels and guides. Other fields of application for injection-moulded parts include medical technology and the aerospace industry.



Quality inspection of an injection-moulded precision part (drive components for the overhead luggage compartment in an aircraft cabin) at the Rottenburg-Ergenzingen plant.



A design engineer with an injection-moulded sealing ring.

Machined finished parts

Finished parts are manufactured from stock shapes or injection-moulded parts through milling, turning, drilling and other mechanical processes. Machining is primarily used to produce small production runs of technical components, as well as for prototypes. Examples of products include valve pistons, transmission levers, gear wheels, IC test sockets, dialysis blocks and trial implants.

Industry profiles and tubes

Ensinger's extruded profiles and speciality tubes are reinforced with fibres or equipped with friction-lowering additives, enabling them to withstand high mechanical and thermal stresses.

Filaments for additive manufacturing

Ensinger manufactures a wide range of filaments made from engineering plastics for industrial and medical 3D printing applications.



Thermoplastic polymer filaments for additive manufacturing.

insulbar: Insulating profiles for windows, doors and façades

Ensinger is one of the world's leading manufacturers of insulating bars for window construction. The glass-fibre-reinforced 'insulbar' insulating bars, which are produced using an extrusion process, join the inner and outer shells of the metal frame profiles. Thanks to their low thermal conductivity, they reduce temperature losses.



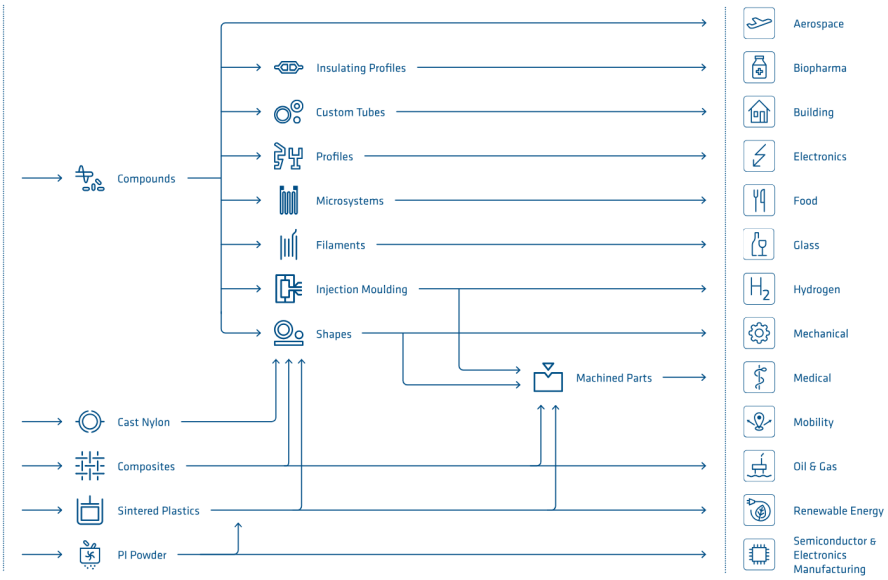
The insulbar RE product line consists of 100 percent recycled polyamide.

Additional product lines

Compression-moulded **polyimide materials** offer exceptional long-term thermal stability and strength. To withstand extreme thermal stress, Ensinger offers new materials with a heat distortion temperature (HDT/A) of up to 470°C.

Thermoplastic **fibre-reinforced composites** are characterised by their outstanding mechanical, thermal and chemical properties. Ensinger manufactures these fibre-reinforced composite materials in various forms, including semipregs, prepregs, organosheets and plates. These materials are used in sectors such as medical technology, the aerospace industry and the automotive industry.

The value chain of the plastics processor Ensinger



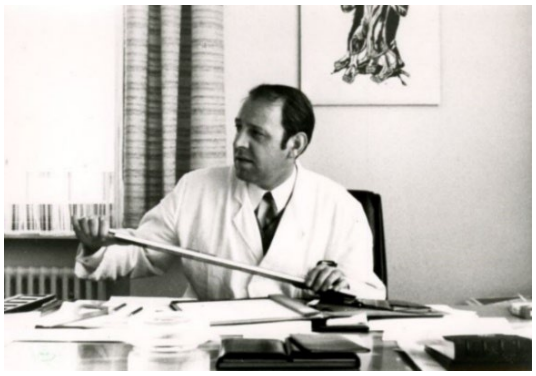
Company history – milestones

The company was founded by Wilfried Ensinger in 1966. Initially, the company focused on the manufacture and sale of thermoplastic stock shapes. This was closely linked to the further development of the extrusion process and application technology.



On one of the first extruders: Wilfried Ensinger (2nd from left) with colleagues.

By relocating its corporate headquarters to Nufringen, Ensinger expanded its production capacities. Shortly afterwards, the company began manufacturing components by machining stock shapes.



Wilfried Ensinger at his desk (around 1970).

In response to rising costs and environmental concerns, the construction industry sought to reduce building energy use. In this context, Ensinger developed the world's first insulating profile for thermal breaks in metal windows, doors and façades. By the end of 1977, the company was delivering the first series-produced thermal insulating bars made from glass-fibre-reinforced polyamide 6.6 to aluminium window manufacturers.

A second manufacturing plant, established in Cham in 1980, enabled series production of insulating profiles and other product lines on a larger scale. In 1985, the addition of injection moulding expanded the company's manufacturing capabilities.

The group's largest subsidiary was established in Washington, Pennsylvania, in 1986. In the following years, Ensinger set up numerous other international subsidiaries in Europe, South America and Asia.

In 1997, management of the company was handed over to the second generation. Distribution in China began in 2002, and since 2007 the company has also had its own production plant in the country. The opening of the Rottenburg-Ergenzingen plant in 2009 gave Ensinger its third production site in Germany.



The Ensinger Group’s largest manufacturing sites outside Europe are located in the USA, Brazil and China.

www.ensingerplastics.com/en/**locations**

Klaus Ensinger led the company for over twenty years before stepping down from the management board at his own request in 2021. He then took charge of the company's sustainability initiatives before assuming the chairmanship of its advisory board.

Full version of the company history, with pictures:

www.ensingerplastics.com/en/history

The Cham site

The Cham plant was founded in 1980 and has grown significantly since then. With around 550 employees, it is now one of the largest production facilities in the international group.



Products manufactured in Cham are used in almost every major industrial sector, including mechanical engineering, construction, medical technology and the food industry.

Ensinger is a leading global producer of insulating profiles for metal windows and doors. These profiles are manufactured using a highly advanced extrusion process.

The machining specialists at the site use computer-controlled lathes and milling machines to manufacture plastic parts. The site also frequently handles the full series production of assemblies and systems on behalf of its customers.

Another area of production is polyamide casting, a method used to manufacture large-format plates and rods.

The Rottenburg-Ergenzingen site

The Rottenburg-Ergenzingen plant is one of the most important development and production sites in the Ensinger Group.

The plant's layout and optimised material flow support the efficient production of goods in series. Ensinger manufactures precision parts and complete assemblies on injection moulding machines.

In addition, Ensinger develops and produces thermoplastic fibre-reinforced composites at this site, including semipregs, prepregs, organosheets and composite panels. Ensinger thus covers a large part of the composite manufacturing value chain.



The Garbsen site

Ensinger's Garbsen site for Ensinger Microsystems Technology (EMST) is located at Leibniz University Hannover's Mechanical Engineering Campus.

EMST develops and manufactures customised solutions for assembly and interconnection technology, sensor technology and interposers. The process chain combines functionalisation, customisation, machining and integration, enabling solutions that were previously unfeasible from technical or economic perspectives. Proven series production processes and a European supply chain strengthen delivery capability.

The Managing Directors



Ralph Pernizsak is Managing Director at Ensinger and is responsible for sales in the EMEA region and the New Business Factory, among other things.

After completing his degree in Aerospace Engineering, he gained international management experience at Festo and Technotrans, primarily in Asia. He joined Ensinger in 2014 and has been a member of the Executive Board since 2020.



Björn Schneekloth is Managing Director at Ensinger and responsible for industrial engineering and quality management at production sites, as well as strategic procurement and sustainability.

Prior to this, the industrial engineering graduate held various positions at CNH and Iveco Magirus within the Fiat Group before moving to the ETO Group. There, his responsibilities included overseeing several European production plants.

The company founder

Company founder **Wilfried Ensinger** was a passionate engineer, a versatile inventor and a dedicated entrepreneur who was fully committed to the welfare of the Ensinger family business and its employees.

At the start of his career, he completed an apprenticeship as a toolmaker and subsequently passed his Master Craftsman examination. He then worked in operations and plant management roles in various mechanical engineering, precision mechanics, and plastics processing companies. He also completed a part-time degree, qualifying as an Industrial Engineer and Diplom-Ingenieur.

Wilfried Ensinger founded the plastics processing company Ensinger oHG in Ehningen in 1966. In 1997, he handed over operational management to the next generation and increased his involvement in charitable activities.

He and his wife founded the Wilfried and Martha Ensinger Foundation, which sponsors social, cultural and scientific institutions at home and abroad.

As President, and later Honorary President, of the Böblingen District Chamber of Commerce and Industry, he played a key role in improving company-based training.

The University of Stuttgart awarded him the title of Honorary Senator. In 2005, he was awarded the Order of Merit of the Federal Republic of Germany. In 2021, the city of Rottenburg am Neckar made him an honorary citizen.

Wilfried Ensinger passed away on 23 May 2023, aged 87.



Wilfried Ensinger (1936-2023)

Apprenticeship and Dual Study Programme at Ensinger

Ensinger offers school leavers the opportunity to undertake an apprenticeship or a dual study programme combining theory and practice. Early-career employees gain valuable insights into company processes and are encouraged to contribute their ideas and take on responsibility.

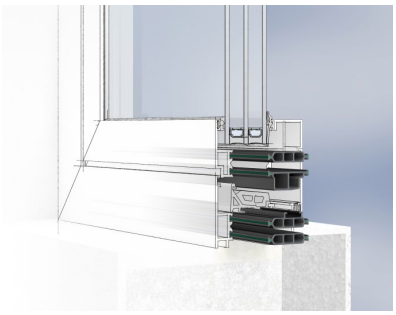
In recent years, many graduates have been recognised by the Chamber of Commerce and Industry for their exceptional examination results.

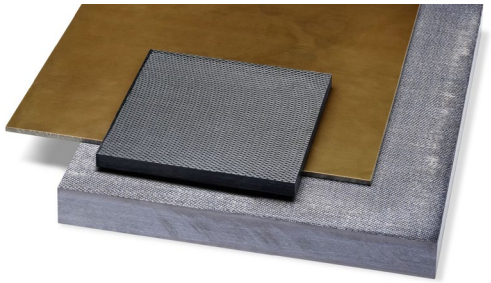
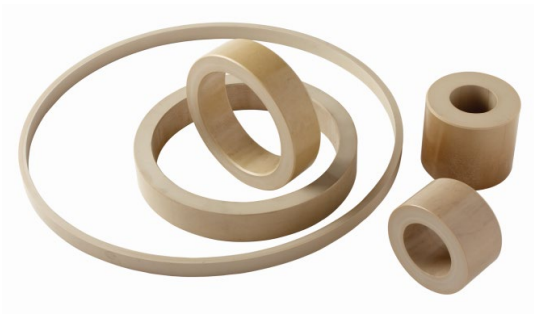
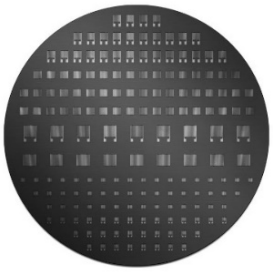
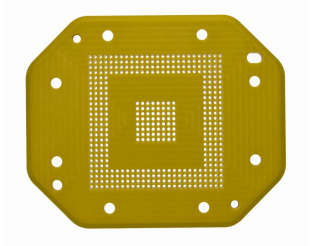


Ensinger provides training in technical and commercial trades and offers dual study programmes.

Skilled workers are trained on an ongoing basis in the company’s own training workshop.

Examples of products and technical applications

Medical Technology		Test implants for knee joint prostheses. Manufactured from Ensinger's biocompatible MT plastics.
Medical Technology		Lightweight and resistant to sterilisation: Surgical instruments made from high-performance plastics.
Medical Technology		Hybrid lightweight design in trauma surgery: X-ray-transparent fixing systems made from carbon fibre-reinforced composite materials (CFRP) enable precise monitoring of the bone position.
Pharmaceutical production		Single-use cell for inline process control in biopharmaceutical production. Image © optek-Danulat GmbH
Construction industry		Cross-section of a window: The glass-fibre-reinforced 'insulbar' insulation bars connect the inner and outer shells of the metal frame profiles.
Automotive		Lightweight, wear-resistant components for axle and steering systems. Manufactured using injection moulding.

Aerospace		The transparent cabin lighting cover made from TECANAT PC natural is self-extinguishing in the event of a fire.
Aerospace		Thermoplastic composites are suited to lightweight applications that require excellent design and material performance.
Oil and gas industry		Seals and backup rings made from fibre-reinforced TECAPEEK. Their mechanical properties and chemical resistance make them ideal for offshore applications.
Semicon		An innovation for the semiconductor industry: The plastic-based Laser Direct Structuring (LDS) method enables the cost-effective production of sensors and other microsystems.
Semicon		Dimensionally stable test sockets made from the high-performance plastic TECASINT are used in microchip production.

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Wilfried and Martha Ensinger Foundation

The Wilfried and Martha Ensinger Foundation aims to fund social, scientific and cultural projects in the long term.



International aid projects

The primary focus of the Foundation's international aid projects is to provide support that promotes self-reliance. The charitable organisation assists individuals in countries spanning Africa, Central and South America, Eastern Europe, and Asia.

Science and research

Another key area of the Foundation's work is supporting young talent in technical professions. In addition, research institutions receive funding for scientific purposes.

Society and culture

Funding is also provided for cultural activities organised by local authorities in the areas near the Ensinger sites.

Further information and details of the focal areas of funding can be found at www.ensinger-stiftung.de/en

Further information:

Website: www.ensingerplastics.com

Wikipedia: https://en.wikipedia.org/wiki/Ensinger_(company)

Social Media: Follow us

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