

HIRSCH Porozell





Expanding
with
Ideas

CONTENTS

Company _____ 06
Stability _____ 08
Sites _____ 10
Experience and Innovation _____ 12
Human Resources _____ 14
Quality and Certification _____ 16
Machines and Molds _____ 18
Materials _____ 20

Products

Protection and Packaging Solutions — 22
Molded Parts and Insulation for the
Construction Industry _____ 26
Shape-Molded Parts _____ 30

Customer Service _____ 32
Vision _____ 34





What do we do and who we are.

The HIRSCH Servo Group started off in 1972 as a small Carinthian business that specialized in manufacturing transport packaging made of EPS and served the local market. HIRSCH Porozell then successively grew to become the core of an innovative and constantly expanding group of companies. When HIRSCH Maschinenbau was formed in 1985 with the aim of developing, producing, and servicing plant and machinery, it marked the beginning of internationalization. Today, the HIRSCH Servo Group with its two business segments, EPS and EPP Processing and Technology, employs over 700 people whose expertise has put the company in an excellent position to play the leading role in the industry and expand in the long term.

Reliable service, perfect logistics, and the high commitment to innovation are its hallmarks. In the international group,

we at HIRSCH Porozell supply tailored products for the construction, electrical, food, pharmaceutical, and packaging industries. Dedicated to quality, we maintain optimum standards at every stage of the processes involved. The many different applications and broad product portfolio enable us to deliver custom solutions of the highest level.

An integral part of the HIRSCH Servo Group, HIRSCH Porozell acts both as a strategic partner to global companies that focus on Central, East and South-East Europe and as a solution provider for customers who operate in regional markets and individual countries. The key objective for us is to build sustainable business relations with our customers based on trust and to support them by ensuring a high level of technical, economic, ecological, and social standards in the long term.

HIRSCH stands for stability.

The HIRSCH Servo Group can look back on over 45 eventful, progressive years, with HIRSCH Maschinenbau producing plant and machinery for international customers for more than 30 years. When the global HERZ Group became its core shareholder, now holding around 89.78% of the stock, the basis was created in 2014 for successfully strengthening the HIRSCH Servo Group's market position.

The Austrian HERZ Group is a leading manufacturer of products for building services, biomass boilers, and heat pumps with twelve production facilities throughout Europe.

Given its extensive network of partners, the HERZ Group's interest in the HIRSCH Servo Group is intended to signal the upward trend even more clearly.

Origin

Stability of a group that has grown for over 45 years – experience and passion for shaped-molded parts.

Profession

Expanding with ideas – working closely together with customers and partners.

Progress

Striving for progressive, reflective innovation – one of the most modern companies in the EPS and EPP industry.

Where you can find us.

The HIRSCH Servo Group with a total of eleven manufacturing plants located in Austria, Hungary, Poland, Romania, and Slovakia is well placed to operate as a global player in the EPS and EPP industry. In addition to these facilities, the company

also has a sales office in China and a service center in the United States in order to provide Asian and American customers with extremely valuable expertise and the best possible support.



Group headquarters
Glanegg, Austria
Production since 1976



Sárvár, Hungary
Production since 1996



Jászfényszaru, Hungary
Production since 2002



Podolíneč, Slovakia
Production since 2006



Cluj, Romania
Production since 2006



Timisoara, Romania
Production since 2016



Nyiregyháza, Hungary
Production since 2002



Wrocław, Poland
Production since 2003



Łódź, Poland
Production since 2005



Bucharest, Romania
Production since 2017



Sfântu Gheorghe, Romania
Production since 2017

Over 45 years of experience, innovation and passion.

Experience

Back in 1972, the HIRSCH Servo Group set itself the goal of expanding with ideas. And the idea is still the driving force behind every expansion step today. True to the motto of Expanding with Ideas, HIRSCH Porozell also upholds this philosophy, working closely together with customers and partners, while also taking input on board from our most valuable asset – the right people in the right place.

Innovation

HIRSCH Porozell develops and manufactures industrial solutions in close cooperation with customers, thus frequently advancing into new areas of use – and while fully committed to environmentally friendly production. Long-standing industrial experience has enabled us to gain an

in-depth understanding of product design, manufacturing technologies, material properties, and application engineering. It is this knowledge that makes our production facilities among the most energy efficient and us one of the best EPS and EPP processors in the world. Regular review of the innovative processes ensures our continued existence by generating long-term profits and creating and safeguarding jobs.

Passion

Our focus in operations is on quality, innovation, efficiency, experience, and reliability. Due to this consistent return to core competencies and fundamental values, HIRSCH Porozell creates sustainable delight among customers and thus aspires to innovative progress.



We know our products. Better than anyone else.

EPS and EPP Processing
Product Development
Production

Quality Control

Mold Shop

Machinery and Plant Engineering

People are the key to success. It is in fact the skills, expertise, and commitment on the part of all the employees that makes HIRSCH Porozell so successful. The company's top priorities therefore include ensuring job satisfaction, motivation, and continuous development for the skilled staff, also because this is essential for the outstanding achievements that each employee makes every day.

Our human resources are our most important asset. Only highly trained professional staff guarantee the highest standards and ensure smooth production. Regular training courses keep all the employees up to date with the latest

technology, enabling them to provide customers with the best possible advice for their projects.

We also attach great importance to responsibility, honesty, and integrity – when competing with other companies, using company property, regarding the environment, and other people's health and safety. To ensure these principles are adhered to, the HIRSCH Servo Group is committed to demonstrating these core values in its day-to-day work, as set out in the Ethics Code.





What we stand for.

Our top priority is to maintain consistently high quality in all our products, processes, and services at all times. That is what the HIRSCH Servo Group stands for. What plays a major role in achieving this is to constantly implement an economical and effective quality management system to ISO 9001. Continuous quality control ensures that our HIRSCH Porozell products are always tested before being shipped to the customer.

It is not only the HIRSCH Servo Group's products that play a sustainable role in environmental and climate protection: sustainability is of major importance to the entire Group in the joint value chain. The contribution that the HIRSH Servo Group makes to responsible use of limited resources has been certified with the ISO 14001 environmental management system. Based on this environmental management standard, the HIRSCH Servo Group's services are continuously improved to increase efficiency and promote conservation of all resources.

We shape the future.

HIRSCH Maschinenbau has gained an excellent reputation at an international level as the technology leader in the manufacture of high-quality, flexible, and cost-effective plant and machinery for processing EPS and EPP. Starting with the planning phase, through fabrication and installation of the plant and machinery to daily production operations, the HIRSCH team provides professional, collaborative support for customers. Thanks to the use of machines and systems that are all perfectly compatible, HIRSCH Maschinenbau guarantees end products of a unique quality. As the world's only supplier of innovative mechanical engineering and mold making technology that has also gained the necessary expertise from in-house processing, HIRSCH Maschinenbau guarantees long-lasting, user-friendly products.

Since 1972, the HIRSCH Servo Group has been making aluminum molds for EPS and EPP shape-molded parts, preferably in combination with HIRSCH molding machines. Its experience in product design and manufacturing technology and its knowledge of a wide range of material properties have made HIRSCH one of the world's best EPS and EPP mold makers. Know-how in this area ranges from making aluminum molds to highly complex, composite molds that are completely designed, planned and produced to customer specifications using CNC machining centers. Innovative solutions for all customer requirements are one of the great strengths of HIRSCH's mold shop.



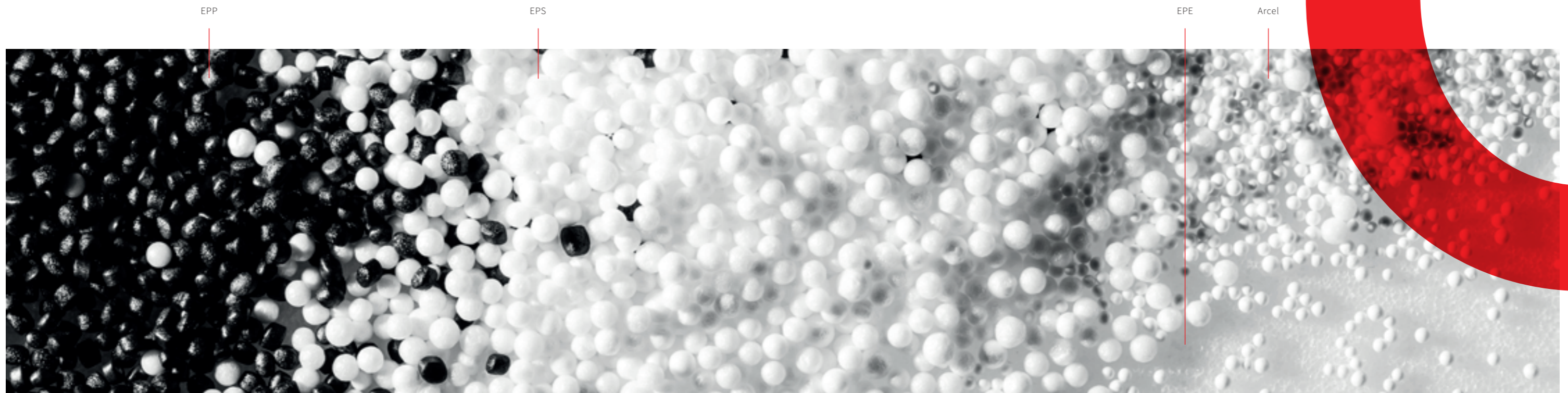
EPS (expandable polystyrene) or airpop®, EPP (expandable polypropylene), EPE (expandable polyethylene), and Arcel are materials suitable for a multitude of

applications with a common goal: delivering the best possible performance using the least possible material.

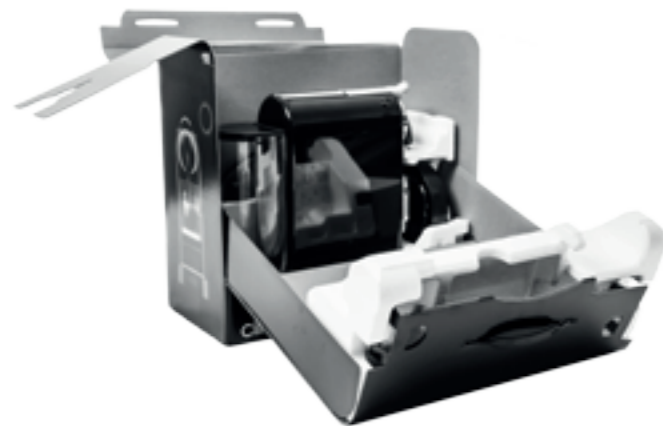
The materials' benefits at a glance:

- Energy saving and protection against heat and cold
- Light
- Food safe
- Environmentally sound
- Excellent insulating properties
- High impact and pressure resistance
- Resistant
- Cost-effective and efficient
- Easy to handle
- Safe
- Stackable
- Robust
- Codable
- Versatile
- Energy absorbent
- Highly resilient
- Anti-static
- Elastic
- Countless design options
- Recyclable

What we work with.



We offer
you safety.



To ensure fragile, sensitive and quality products remain in pristine condition when handled and shipped, HIRSCH Porozell provides custom protection and packaging solutions for wide-ranging applications. Packaging made of EPS, EPP, EPE, or Arcel is ideal for protecting all kinds of articles against vibration, impact and temperature fluctuations during transport and storage. After initially analyzing the customer's specific problem, our highly trained employees develop and deliver tailored packaging solutions.

Packaging for Electrical Goods and Household Appliance

Shape-molded EPS and EPP parts ensure perfect protection against impact, pressure and temperature effects from outside. Our custom packaging solutions guarantee that top-quality and fragile high-technology products for consumer electronics are

shipped safely or that white goods have adequate protection.

Shipping Containers

To protect highly sensitive electronic components as far as possible against static electricity and interference, HIRSCH Porozell produces anti-static shipping containers made of EPS, EPP, and EPE. The reusable containers are particularly suitable for manual or computer-controlled production lines in the electronics industry.

Reusable Packaging

Protective packaging made of EPP and Arcel is extremely elastic and resilient, which means it is ideal for use over periods of several years. This not only reduces the impact on the environment, but also has benefits in terms of costs and warehouse logistics.

Thermal and Insulating Boxes

The transportation of pharmaceutical or biotechnological products, medical samples, and perishable foodstuffs places particular demands on the packaging material used. Modeled on their natural protection functions, HIRSCH Porozell develops special thermal containers and insulating boxes that keep the temperature as constant as possible.

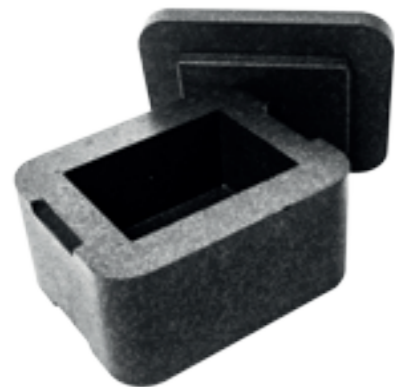
Food Packaging

In order to maintain the high quality of foodstuffs during transport and temporary storage, they have to be kept at the right temperature over longer periods where possible. Given its air-filled cells, EPS

in particular displays this property and keeps the product it contains hot or cold as required for many hours. Furthermore, the transport boxes made of EPS not only comply with all the hygiene requirements, but are also tasteless.

Standard Products

In addition to custom protection and packaging solutions, HIRSCH Porozell supplies customers with an extensive range of standard products for industry and wholesale. The benefits lie in the significantly lower development costs and extremely fast delivery times for boxes, containers, and packaging in various sizes and designs.



Perfectly insulated.

The issues of energy efficiency and sustainability are also becoming increasingly important in the building industry. Excellent insulating properties for constructing or renovating buildings and structures and at the same time robust, resistant materials will be the key requirements in the future. Both for interior and exterior facades, roofs, ceilings and floors or insulating lightweight concrete – HIRSCH Porozell provides innovative solutions of the highest quality.

Ceilings and Floors

EPS is ideally suited as an ecological building material for insulating top story ceilings and floors under screed. In addition, HIRSCH Porozell has gained a reputation as an international specialist in developing, producing, and distributing modular boards for underfloor heating.

Walls

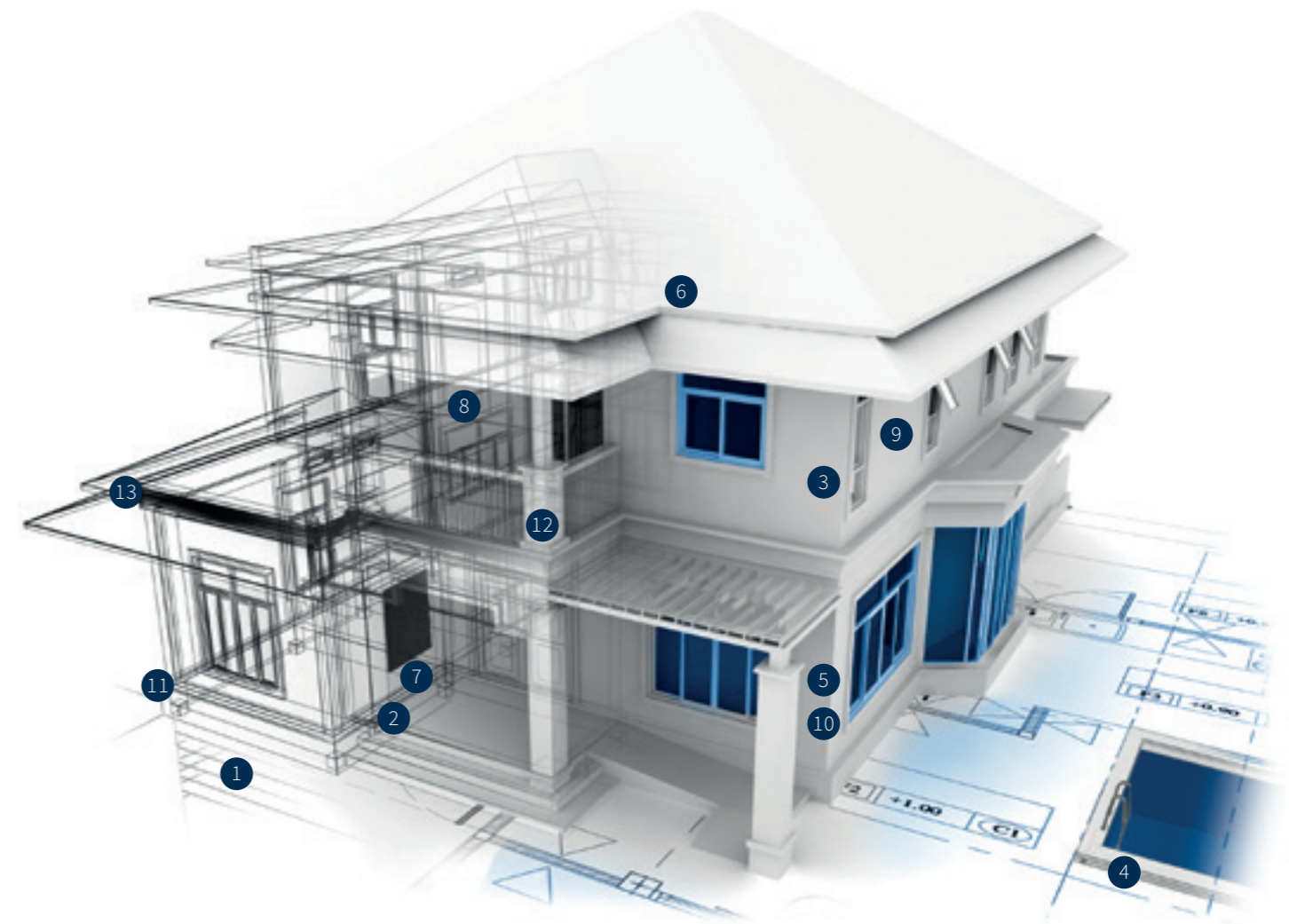
To ensure the best possible thermal insulation for indoor rooms and facades, HIRSCH Porozell uses the latest processes

and technologies to treat the raw material: EPS. Continuous advances and improvements in the areas of thermal conductivity and aeration guarantee products delivering total satisfaction.

Roofs

Roofs that are not adequately insulated cause considerable heat loss in buildings and structures. Installing special flat and pitched roof insulation boards made of EPS can reduce heating bills by up to 40%. The benefits are EPS's dimensional stability, lightness, and high load capacity combined with return on investment within three up to a maximum of 24 months.

HIRSCH Porozell's pitched roof insulation system based on AutoCAD design guarantees that the ÖNORM standard can be achieved. According to your draft there is also the option of displaying 2D and 3D views of the installation plans and calculating the U-value.



- | | |
|--|--|
| 1 Perimeter insulating boards | 8 Modular boards for ceiling heating/cooling |
| 2 Insulating lightweight concrete | 9 Two-layer facade insulation boards |
| 3 EPS insulating boards | 10 Combined wall system |
| 4 Swimming pool blocks and interlocking boards | 11 Base and facade insulation boards |
| 5 ICFs | 12 Insulating elements for projecting concrete parts |
| 6 flat and pitched roof insulation boards | 13 Mounting block |
| 7 Modular boards for underfloor heating | |

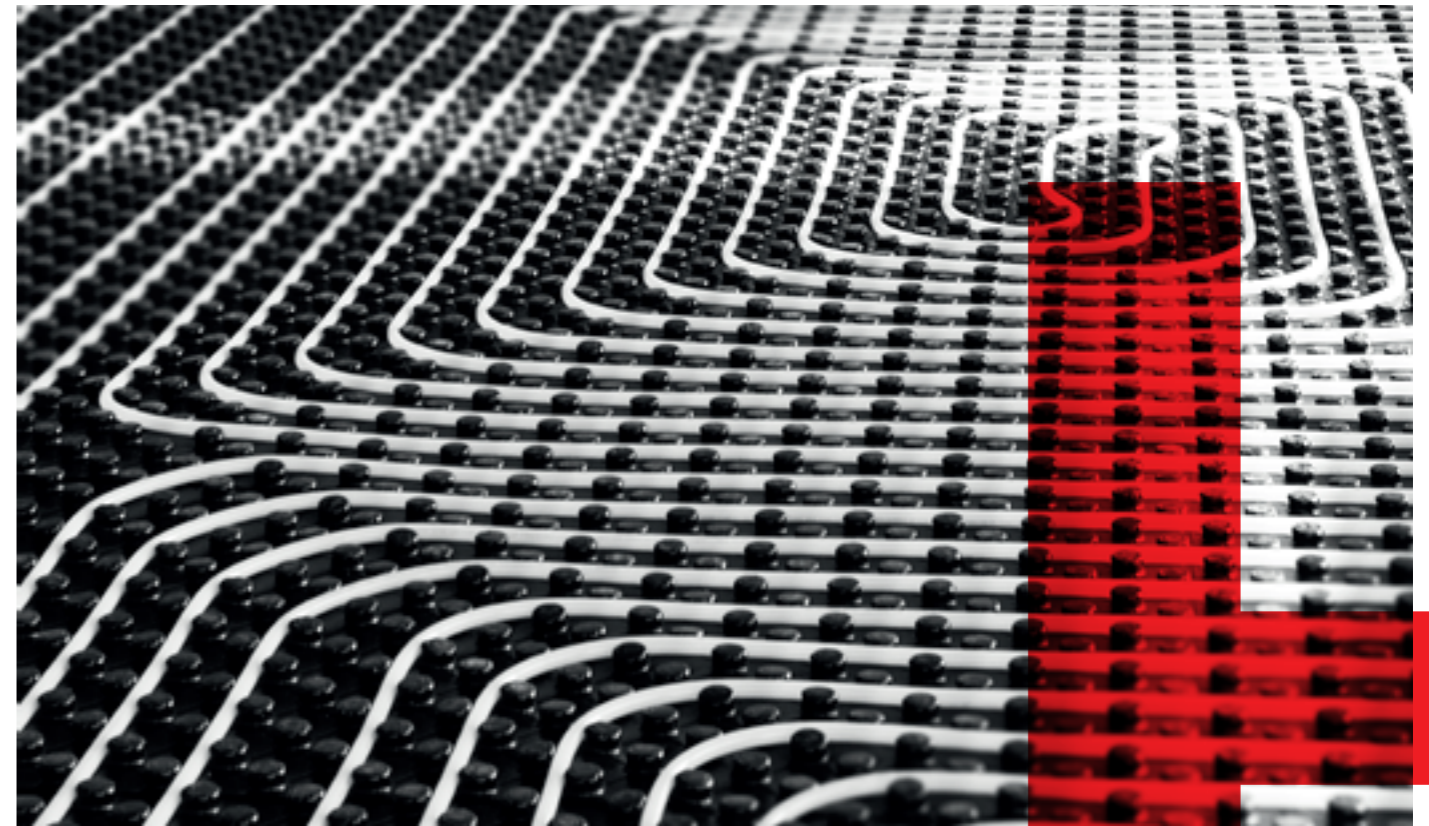


Heating and Climate

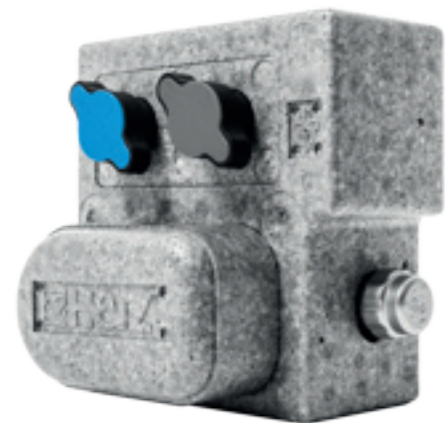
EPP also maximizes the opportunities available to the plumbing and heating industry. Thanks to its high dimensional stability and temperature resistance combined with low thermal conductivity, EPP enables versatile solutions for insulation with aesthetic appeal. Virtually unlimited design options and an excellent cost-benefit ratio also make EPP an attractive material for the building services sector.

Structural Components

In addition to insulation for inside walls, facades, roofs, ceilings, and floors, HIRSCH Porozell produces structural components made of white and gray EPS up to a density of 200 g/l. Hollow EPS blocks known as insulating concrete forms (ICFs) can, for example, be fitted together to build walls on site and then filled with concrete.



Everything in great shape.



30



Shape-Molded Parts with Special Material Properties

Higher material densities, for instance for load-bearing surfaces, enable heavy products to be stacked and have benefits in warehouse logistics. We also produce certain parts or areas of products in higher densities to meet special requirements in personal protection. What is more, using different densities in one part can dispense with the need for other materials, which means that all the advantages of using one single material come to bear.

Shape-Molded Parts for Industrial Applications

HIRSCH Porozell develops and manufactures industrial solutions in close cooperation with customers and partners, thus frequently advancing into new areas of use. Our shape-molded built-in parts with inserts made of different materials (e.g. metal, injection molding, etc.), boiler and toilet tank insulation or valve protection components are just some examples.



31



Our service for your satisfaction.

Right from the very start, HIRSCH Porozell has focused on delivering top quality and performance in all our products. A goal that can only be achieved if all customers are completely satisfied. Well-trained staff and many years of experience guarantee customers perfect products and support of the highest level.

In addition to providing extensive and comprehensive customer care, our team at HIRSCH Porozell makes every effort to deliver total satisfaction. What makes HIRSCH Porozell stand out in particular is high delivery reliability and product quality.

From development to volume production – all our services at a glance:

- Assessing the customer's specific request
- Clarifying the requirements and product specifications
- Developing the product solution
- 3D product design
- Machine prototype for agreeing details
- Making any fine adjustments
- Product approval by the customer
- Volume production
- Continuous quality control

VISION



Our values for your success.

HIRSCH

True to the motto of Expanding with Ideas, the HIRSCH Servo Group and HIRSCH Porozell are always open to ideas, which are then often put into practice in collaboration with customers, suppliers, and employees.

To secure a leading role in the industry and continue to expand it in the long term, our operations are based on reliability and treating one another with honesty, fairness, trust, and respect. We attach great importance to teamwork with a view to optimizing all the target-oriented processes and thus focusing on the customers' needs in every respect.

HIRSCH Porozell makes use of the 45 years of expertise in EPS and EPP processing in order to produce high-quality products and services, and promote cooperation to satisfy customers as well as possible. At the same time, the company is dedicated to cost efficiency and respecting the

environment. Long-standing industrial experience has enabled HIRSCH Porozell to gain an extensive knowledge of material properties and application engineering, which gives rise to continuous progress in developing and producing innovative product solutions. Economical use of raw materials is equally important to us, which shows that we take our responsibility towards environmentally friendly value added seriously.

We consistently pursue the goals we set ourselves, are committed to continuously improving and promoting quality and environmental management systems, and take all the applicable legal requirements and compliance regulations into account. The fact that HIRSCH Porozell's views are so innovative and the actions we take are subject to ongoing evaluation processes ensure the company's continued existence by generating long-term profits, and creating and safeguarding jobs.



HIRSCH Porozell



HIRSCH Porozell GmbH

A-9555 Glanegg 58, Austria

T +43 4277 / 2211 0

F +43 4277 / 2211 444

office.porozell@hirsch-gruppe.com

www.hirsch-gruppe.com

© All rights reserved, HIRSCH Porozell GmbH, 2017