

INJECTION

MOULDING SOLUTIONS

INDUSTRIAL INNOVATION BY JSP

JSP Group

With a global presence, JSP serves the automotive, HVAC, packaging, sports and consumer goods markets with a range of foam polymers. The company has research and development centres and production sites strategically located across the Americas, EMEA and Asia, as well as **polymer injection moulding facilities in Germany and Italy.**

- Founded in 1962 in Japan
- First production in Europe in 1992
- Annual turnover ≈ €1 billion
- 34 plants worldwide
- 2025 Creation of the Injection Moulding Solutions division with the addition of two injection moulding companies



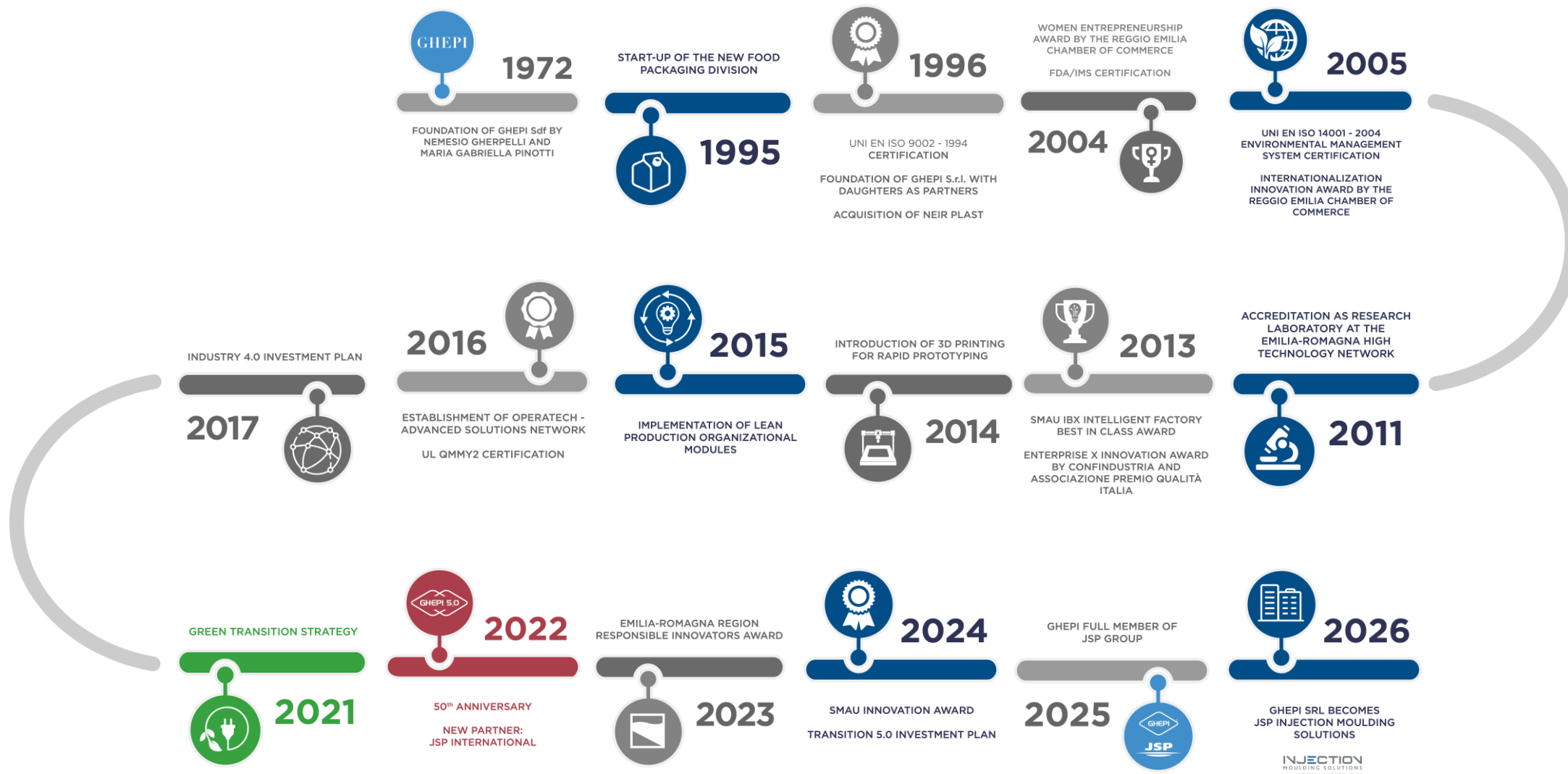
Italian injection moulding plant: JSP Injection Moulding Solutions Reggio Emilia

Since 1972, we have been developing new products through plastic injection moulding.

We are committed to managing our customers' projects with the aim of improving the performance and/or increasing the competitiveness of their products.



Milestones for the Reggio Emilia-based company

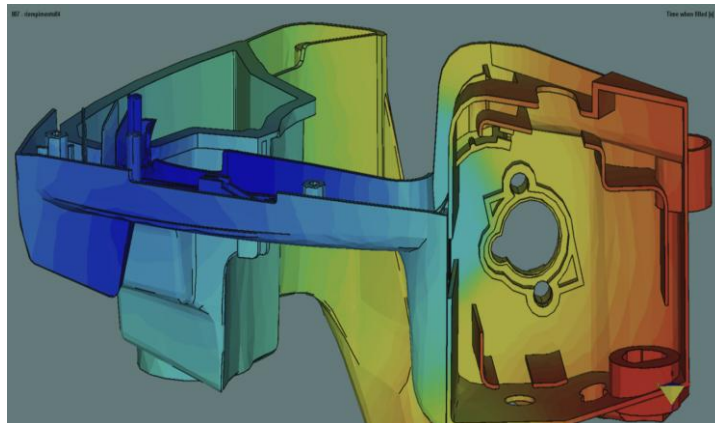


Main activities in Reggio Emilia



Services

- Injection moulding using cutting-edge technologies with 23 hydraulic, hybrid and electric machines, from 7T to 800T assisted by manipulators, collaborative robots and specific auxiliary equipment.
- Bi-material moulding
- Rapid cycle moulding with highly automated lines
- Gas Injection moulding



R&D & Innovation

- Research Laboratory: industrial research on metal substitution, material substitution and hybrid products
- European research projects
- Networking for open innovation
- JSP Innovation Centre



Solution Provider

- Integration of all stages of project development, order management and services to simplify the supply chain

Post-production services:

- Ultrasonic welding
- Vibration welding
- Assembly and testing
- Pad printing

Moulding technologies

The production technologies available at the Reggio Emilia site are:

- Injection moulding
- Gas injection moulding
- Two-material moulding
- Ultrasonic welding
- Vibration welding
- Laser marking
- Pad printing
- Mechanical processing
- Assembly and testing

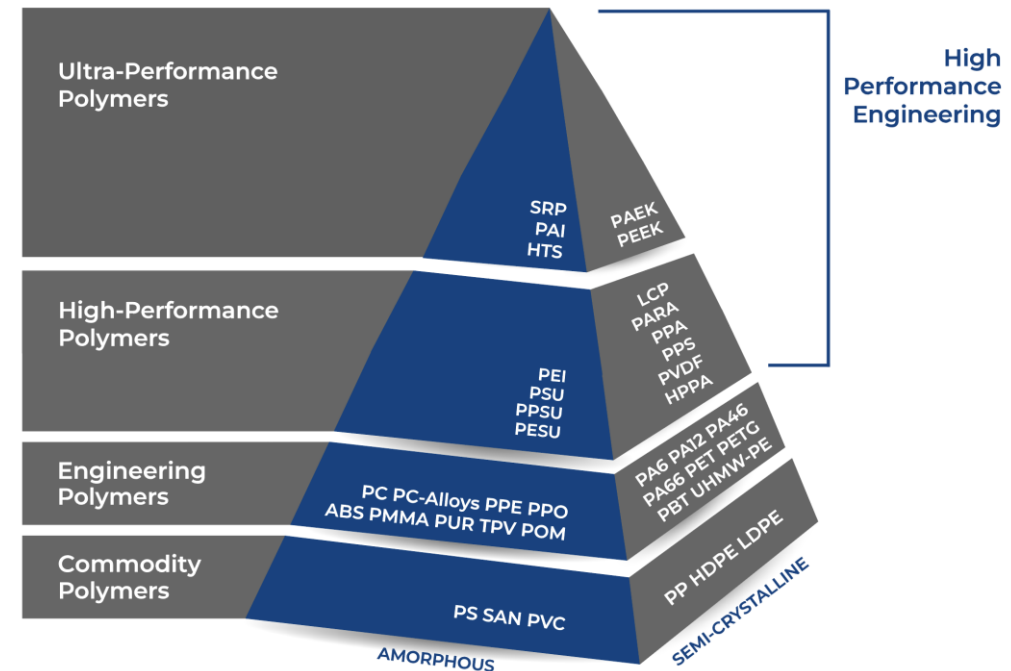


Wide range of materials and polymers

We produce millions of components for various applications through the injection moulding of commodity polymers, engineering polymers, thermoplastic elastomers, biopolymers (biodegradable and compostable) and high-performance polymers. Polymers can be used with reinforcements, fillers, and functional additives to meet product requirements: glass fibers and beads, carbon fibers, stainless steel, graphite, magnets, PTFE, silicone, mineral fillers, talc, molybdenum disulfide, UV resistance, flame retardants, antibacterial agents, etc.

In-depth knowledge of materials is essential in the project development phase: we pay great attention to the preliminary **selection of polymers**.

We also conduct **research and experimentation on innovative polymers, nanocomposites and biopolymers**.



Engineering

Product development is managed by our engineering department and carried out in CO-DESIGN with the customer. Depending on the characteristics of the project, the development phases may include the following steps:

- Feasibility Analysis and Requirements Definition
- Design Review of the Customer's Project
- Selection and definition of suitable polymers
- 3D Modelling
- CFD Analysis
- FEM Analysis
- DFM
- Risk Analysis
- Product and Process FMEA
- Prototyping – 3D Printing



Mould production

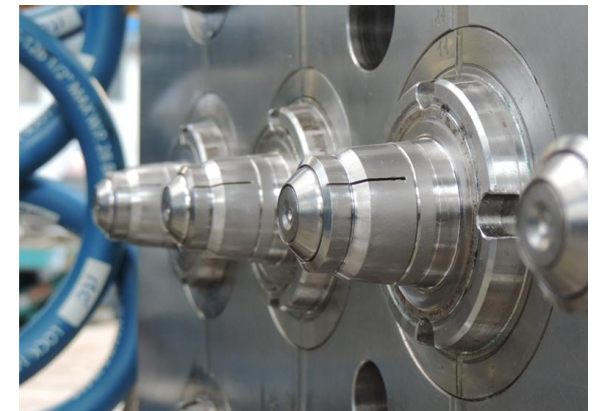
After project validation, mould development includes 2D/3D design, construction, testing, sampling and definition of product and process standards.

Mould construction is entrusted to a network of specialised partners, supported by an in-house mechanical workshop equipped with EDM and CNC milling machines.

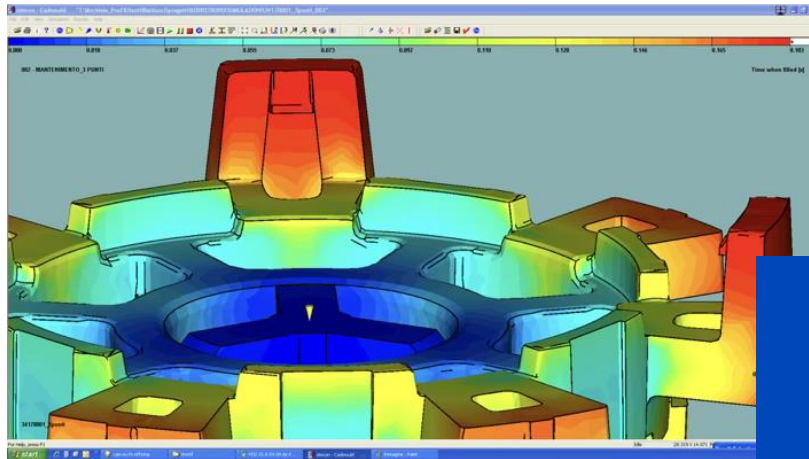
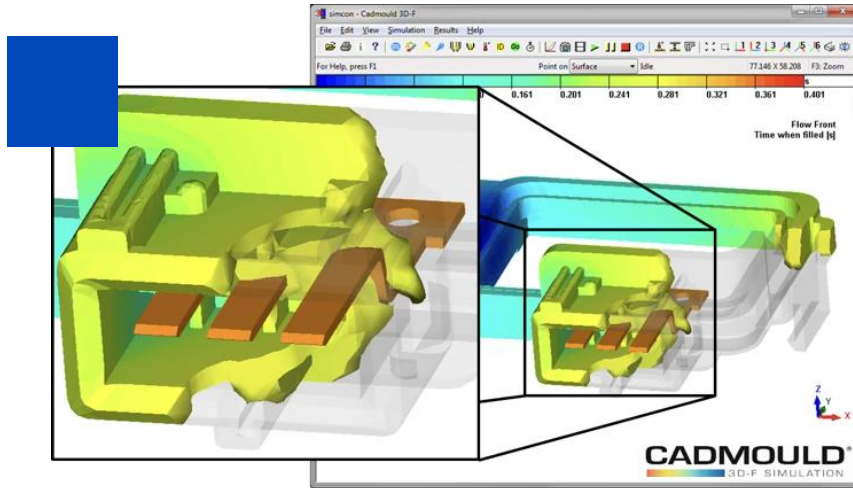
We manage the entire project, ensuring the presence of in-house personnel to supervise testing and approve samples when necessary.

COMPLETE SERVICE:

- DfM – Design for Manufacturing
- CFD analysis
- Definition and approval of the 3D design
- Supervision of mould construction
- Mould testing and product sampling
- PPAP
- Definition of process and product standards
- Project Management



Advanced design tools: CFD analysis and FEM analysis

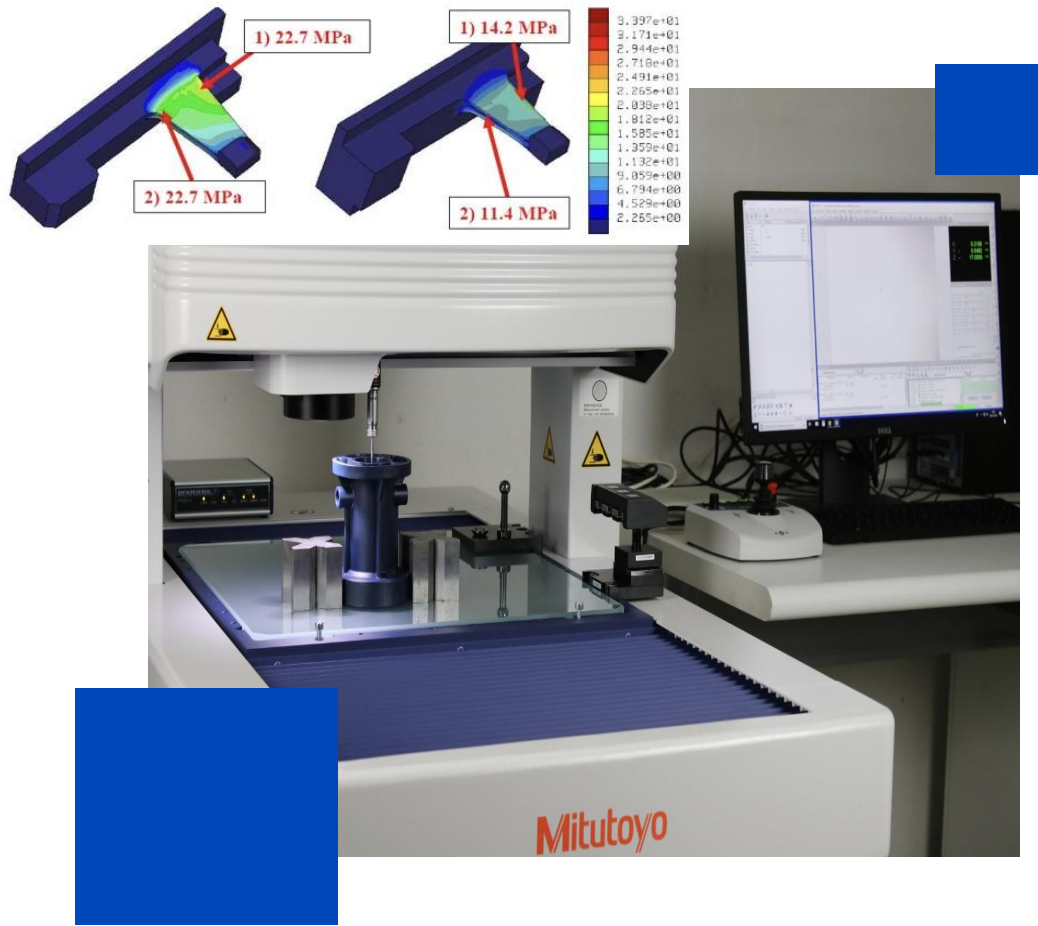


Since 2005, we have been using Simcon's Cadmould software for fluid dynamics simulation, an essential tool for optimising product design and the injection moulding process.

Cadmould modules installed:

- Cadmould 3D-F
- Cadmould 3D-F 2K&Insert
- Cadmould Foam
- Cadmould Structural FEM
- Varimos Virtual Set Up

Quality Process



Project Quality

- DFM
- Project FMEA
- Risk Analysis

Process Quality

- Process FMEA
- Statistical Process Control (CP-CPK)
- Identification and Traceability

Product Quality

- Quality Control Laboratory
- CNC Optical Measurement System
- Hexagon 7-axis Scanner Arm
- PPAP Level 3
- 8D Report

Certifications in Reggio Emilia

SGS

UNI EN ISO 9001:2015 Quality Management System

UNI EN ISO 14001:2015 Environmental Management System



ItalyX

Made in Italy



ART-ER

Accreditation as a Research Laboratory
of the Emilia-Romagna High Technology Network



RETE ALTA TECNOLOGIA
EMILIA-ROMAGNA
HIGH TECHNOLOGY NETWORK



JSP Special Product: ARPRO

ARPRO, manufactured by JSP, is an impact energy management material that offers a unique combination of properties, making it ideal for a wide range of applications. As a high-performance material, ARPRO offers numerous advantages for both manufacturers and end users, including:

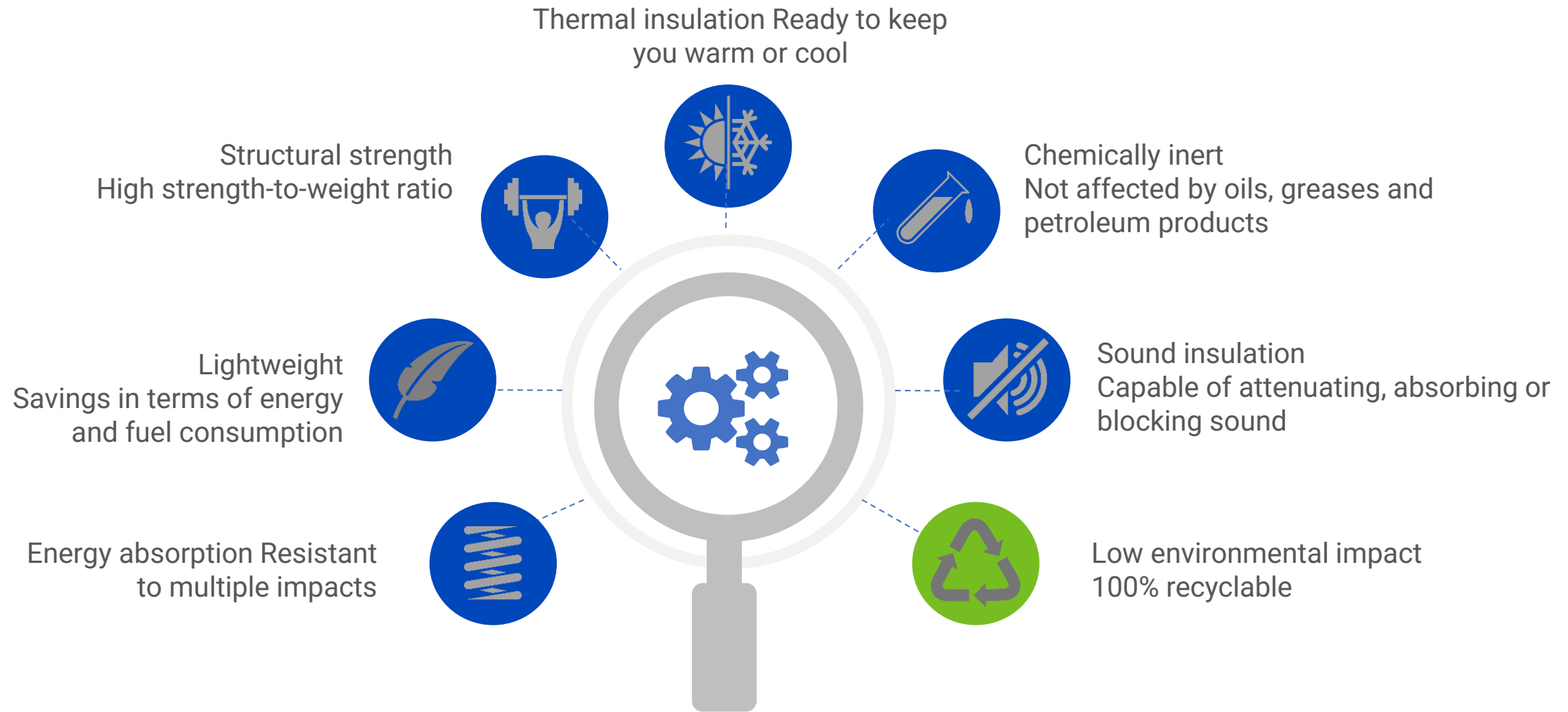
shock absorption with structural strength and very low weight;
chemical resistance;
thermal, acoustic and sound insulation.

ARPRO is also fully recyclable.

Typical applications include safety components for the automotive industry, reusable transport packaging (dunnage), HVAC enclosures and many others. For specific product information: [ARPRO.com](https://www.arpro.com)



Foam Experts - The expertise of JSP



Hybrid Parts

Technological expertise in weight reduction and metal and material substitution is the key distinguishing feature of JSP's positioning.

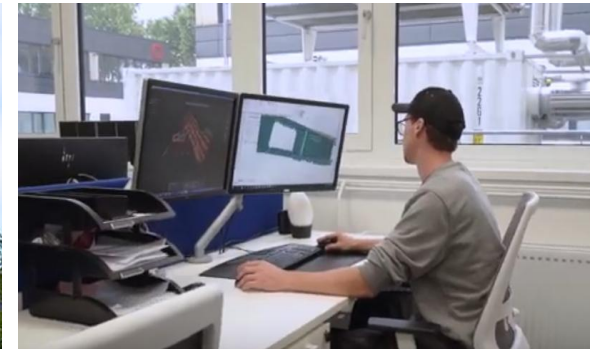
The integration of foam materials and injection-moulded components is the next step in establishing JSP as a leading partner in the automotive sector and other industrial sectors.



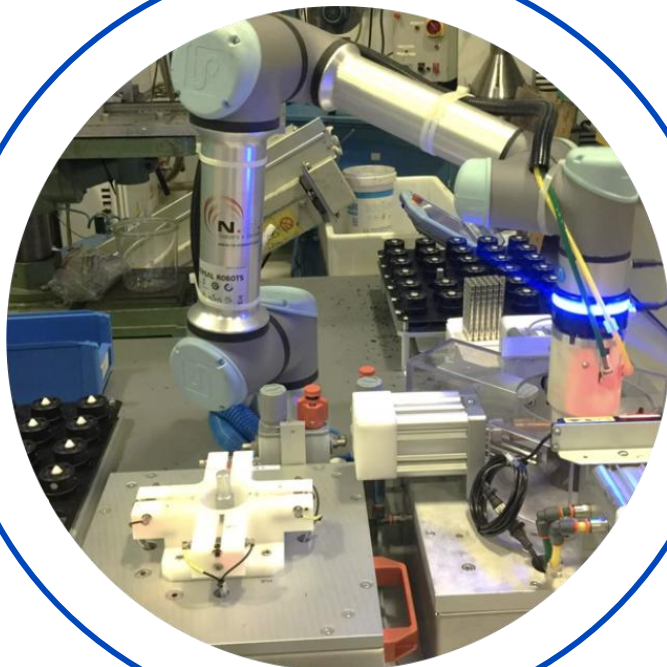
JSP Innovation Center

In 2020, the JSP Innovation Centre was opened in Düsseldorf with the aim of offering innovative solutions and additional technical support to [ARPRO](#) customers.

Today, the centre has a wide variety of machinery and tools for modelling and prototyping any project related to bead foams. JSP guarantees the highest level of service and support for all parts and projects.



Contact



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