

# Who are we?

With over 30 years of experience, our company specializes in:

- Mold design and manufacturing
- High-quality thermoplastic injection molding
- 3D printing

We offer a complete product analysis and development service, from concept to design, with a focus on co-design and 3D rapid prototyping.





#### **DETAILS**:

Latest generation machinery

Eco-sustainability 100% Energy produced from renewable sources



# Injection molding

Our injection molding department is equipped with 13 state-of-the-art presses, with a capacity ranging from 10 to 480 tons, allowing us to produce plastic components of different sizes and complexity.

#### We guarantee:

- Precision and consistent quality in printed parts
- Production flexibility, from prototyping to mass production
- Technical and standard materials, chosen based on customer needs
- Optimization of production cycles to reduce times and costs

Attention to quality and customization allows us to respond to the needs of different sectors, offering tailor-made solutions for each application.

#### **DETAILS**:

**13 Presses** Latest generation

From 10 to 480 Tons To make components of various sizes



# **3D Printing for Rapid Prototypes**

We offer 3D printing and rapid prototyping services for the production of custom components, reducing initial development times and costs. Thanks to advanced technologies, we can quickly transform ideas and projects into functional prototypes, ideal for testing, dimensional checks and validation before large-scale production.

 Speed and flexibility: Rapid production of prototypes without the need for molds.

Precision and quality: Accurate details and high-level finishes.

 Innovative materials: Possibility to choose between polymeric resins for additive manufacturing that simulate the properties of technical plastics as closely as possible

 Reduction of development costs: Design optimization before the final production of the molds.

Our experience allows us to offer customized solutions, supporting companies in different sectors, from automotive to electronics, to industrial design.



# Design of molds

Our company offers a complete service for the design and production of injection molding molds. Thanks to advanced technologies and an expert team, we support our customers at every stage of the process.

• Rapid prototyping: Creation of functional models to test design and performance before building the mold.

• Mold design: Study and development of customized molds, optimized for efficiency and durability.

• Precision machining: Use of CAD/CAM software and CNC machinery to ensure minimum tolerances and maximum quality.

• High-performance materials: Molds made with specific steels to ensure resistance and longevity.

• Maintenance and optimization: Continuous assistance to ensure maximum productivity of the molds over time.

Thanks to our experience, we guarantee reduced times, optimized costs and customized solutions, adapting to the needs of each sector.



### **Plastic components in electronics**

What we can do for your company

#### **CASES AND SKELETONS**

- External cases resistant to atmospheric agents.
- Internal support panels for electronic components.
- Covers and doors for connector protection.

# **Typical materials:** Polycarbonate (PC), ABS, PBT with UV stabilizers and self-extinguishing V0

#### MODULI DI DISPLAY E INTERFACCE UTENTE

- Frames and supports for LCD or touchscreen displays.
- Buttons, transparent covers and surfaces for user interfaces.

#### Typical materials: Polycarbonate (PC), PMMA, ABS.

#### SUPPORTS AND INTERNAL STRUCTURES

- Supports for transformers and electronic modules.
- Housings for fans and cooling systems.
- Fixing structures for antennas and RF components.

#### CONNECTORS AND INSULATORS

- Electrical and communication connector components (RJ45, USB, power connectors).
- Insulating caps for high voltage cables and terminations.
- Supports and spacers for electronic boards.

#### Typical materials: Nylon (PA), PBT, PPS, POM, TPE

#### Typical materials: PC, PA6, PA66, PBT

#### SAFETY COMPONENTS

- Circuit and device protection against overvoltage.
- Insulating barriers to separate electrical components.
- Fireproof or antistatic covers.

## Typical materials: PPS, Polycarbonate (PC), PVC, with self-extinguishing V0







PRODUCTION DEPARTMENT Injection molding and mold testing



MOLD STORAGE



**QUALITY CONTROL LABORATORY** 



STAMP WORKSHOP For small maintenance and immediate repairs



POST-PROCESSING DEPARTMENT Assemblies, finishing, ultrasonic welding, pad printing and laser marking



WAREHOUSE

# Analysis and simulations

We use FEM analysis for thermoplastic polymer structures to optimize the design by identifying critical points, reducing the material used and predicting deformations under load. It allows to simulate non-linear behaviors and thermomechanical phenomena, ensuring reliability even in variable thermal conditions. This approach reduces development times and costs, improving the quality and efficiency of the final product.

With Mould Flow simulations, we optimize the injection molding process by reducing waste, production times and costs. We identify defects such as deformations or bad fillings in advance, ensuring higher quality products and a faster time-to-market. means maximizing efficiency and minimizing risks.

#### DETAILS:

MOULD FLOW Simulations CAE (Computer-Aided Engineering) & CFD

#### **Optimization of production times**

To predict and resolve any complications

Better product quality To predict and resolve any critical issues





## **REPORT DFM e TIMING**

To ensure efficiency and quality of your project, we use the DFM (Draft For Manufacturing) report and a Project Management approval structure with Gantt charts.

Our DFM reports help to evaluate and prevent all critical issues in the production of injection molds, it is a modern co-design tool perfect for those who are in charge of product development.

At the same time, the Gantt monitoring process will allow you to plan and follow each phase of the mold construction, ensuring the completion of each phase in sequence and optimal management. In this way we offer our customers complete monitoring of the entire process of manufacturing specific equipment for the injection molding process.

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#### **DETAILS:**

Report DFM Draft For Manufacturing

#### Monitoring and planning of phases

## **Future goals**

To improve our company and the quality of our services, we have outlined the following objectives:

- **Care of green areas:** Implementation of shaded spaces in parking lots and flowered areas to improve corporate well-being.
- **ESG (Environmental, Social and Governance) certification:** Obtain a formal and independent assessment of our environmental, social and governance practices, demonstrating adherence to high sustainability standards.
- Advanced data monitoring for each order: Detailed tracking of electricity, water, plastic consumption and CO<sub>2</sub> emissions, providing reports to customers to monitor the environmental impact of each product.
- Automotive certification IATF 16949:2016: Achieve the international standard for quality management systems in the automotive sector, focused on continuous improvement and defect prevention.
- Photovoltaic system: We will implement a photovoltaic system on our roofs



# Why choose bemarplast?

Experience and quality: Over 30 years of specialization in injection molding, with ISO 9001 certification to guarantee the highest quality standards.

Innovative materials: We use cutting-edge thermoplastics, designed to offer resistance, lightness and optimal performance.

Precision and reliability: We produce complex and customized components with minimum tolerances, ensuring maximum reliability.

Efficiency and competitiveness: We optimize costs even for small productions, without ever compromising quality.

Flexibility and customization: We offer customized solutions for different sectors, from aerospace to electronics.

• Did you know? Bemarplast is among the most followed companies in the sector in Italy! More and more customers choose us for our innovative solutions and our reliability.



## Who we work for

Bemarplast is a reliable partner with a consolidated experience in the production of plastic components for the electronics sector.

We collaborate with companies in various sectors, including pumps and compressors, agriculture, medical, automotive and construction.

Our flexibility and expertise allow us to adapt solutions to the specific needs of each customer.



#### PLASTIC COMPONENTS MANUFACTUR... | 🦊 🤶

Bemarplast is the ideal partner for those seeking quality and innovation in the production of plastic components in the electronics sector. We offer cutting-edge machinery and specific know-how to guarantee precision, durability and high performance.

With a strong commitment to sustainability, our systems and presses are energy efficient, ensuring an efficient and responsible production process.

+ 53

Choosing us means focusing on experience, technology and respect for the environment.

#### Companies we work for:









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