



# ADDITIVE MANUFACTURING

"Manufacturing the future"



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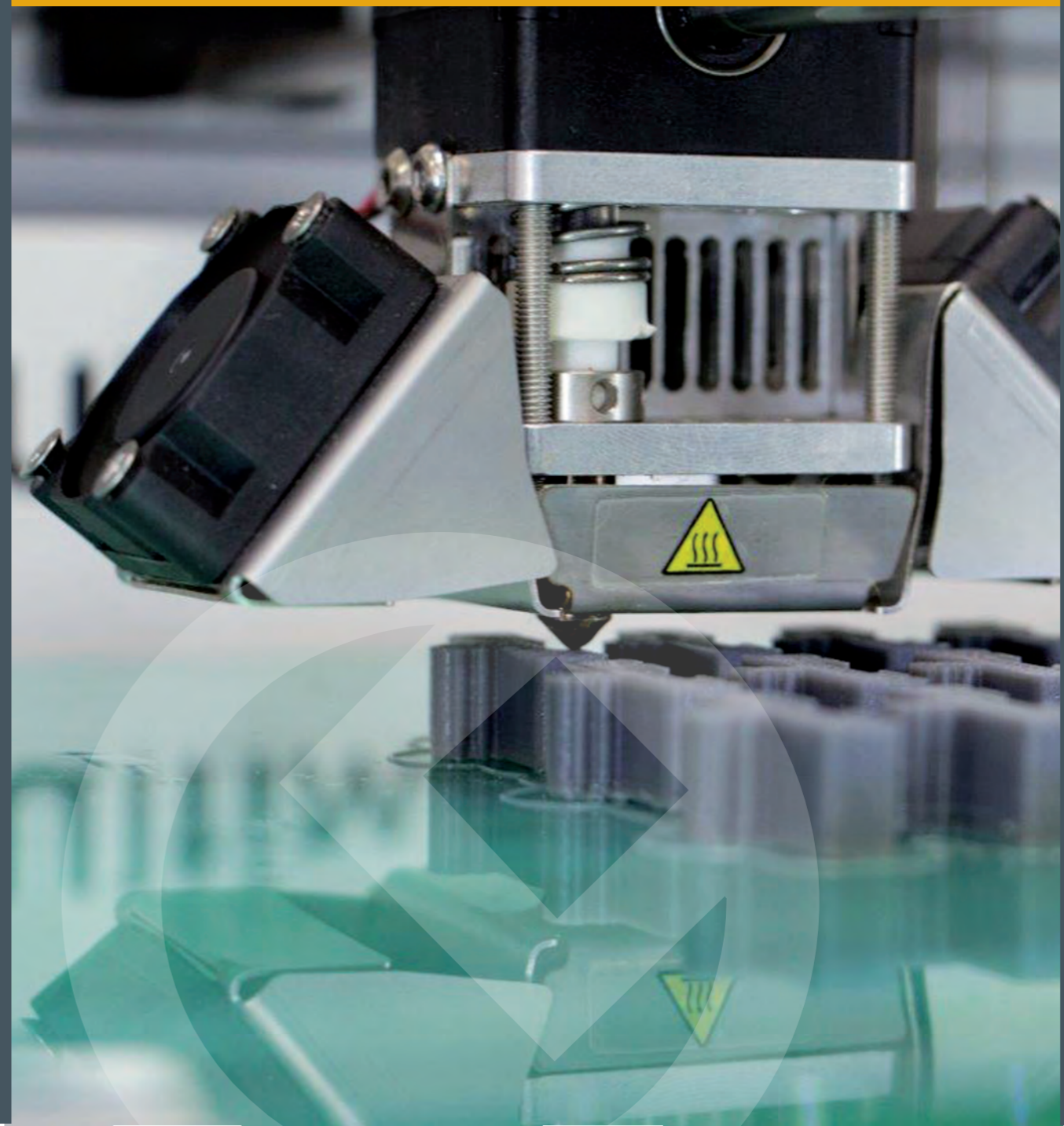
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**AIMPLAS**  
PLASTICS TECHNOLOGY  
CENTRE



innovation  
IN PLASTIC



ADDITIVE MANUFACTURING

# Innovate with additive manufacturing

## Product Development

We cover the 3 areas:

- **Product design.** Assessment and assistance in the designing process bearing in mind the application requirements and AM technologies characteristics.
- **Material Research.** Suitable material selection according to the product final use..
- **Manufacturing process.** Selection of the best suited/most appropriate technologies considering design and material to obtain the parts aimed functionality.



## Material Development and Rod manufacturing

We provide assistance in:

- **Material Research.** Searching for the most suitable commercial materials taking into account their extrusion processability and the product's final application and use.
- **Tailor-made materials.** Physical and chemical modification of commercial materials to meet the defined requirements.
- **Commercial and tailor-made material evaluation in the rod manufacturing process.** Pilot plant processing. Further assessment and assistance in the industrial scale up will be provided.

## Testing

- Technical Data sheets of: products, raw materials, rods and final parts.
- Validation/verification of requirements and specifications.
- National and international standards compliance (UNE, ISO, ASTM, DIN, BS, etc.).

Testing laboratory accredited by ENAC according to the UNE-EN ISO/IEC 17025 standard. AIMPLAS is the Spanish centre with the widest range of accredited tests in the plastic industry.

- Mechanical properties.
- Performance against external agents.
- Rheological properties.
- Physical and thermal properties.
- Optical properties.

## Standards (Regulatory compliance assessment)

- Legislative requirements.
- Standards.
- Assessment about regulatory requirements of a specific product. Identification of the standards and legislation perceptive for the product. Product's standards and legislation identification.
- Material and process standard's information.

## Training

- Seminars on: additive manufacturing technologies, materials, trends and applications.
- Tailor-made courses.

## Materialization of the first physical series/parts

- Use of the best available AM technologies.
- First series development from Polyurethane vacuum casting process.
- Injection mold inserts development for initial injection trials in order to improve the final materials validation.
- Mould cavities development of and inserts by AM technologies to allow initial injection tests using the final materials in order to validate the parts with minimum costs.

