



INNOVATION  
LAB



## TECHNO AND ADDITIVE MANUFACTURING PRODUCTION AND SALES IN RECORD TIME

 **techno**  
TECHNOLOGY & INNOVATION

## A new frontier for production

Speed, precision and uniqueness to optimise project management. The innovative Techno 3D printer combines composite materials, high quality and top performance, ensuring products are on par with traditional production, but with many additional advantages.

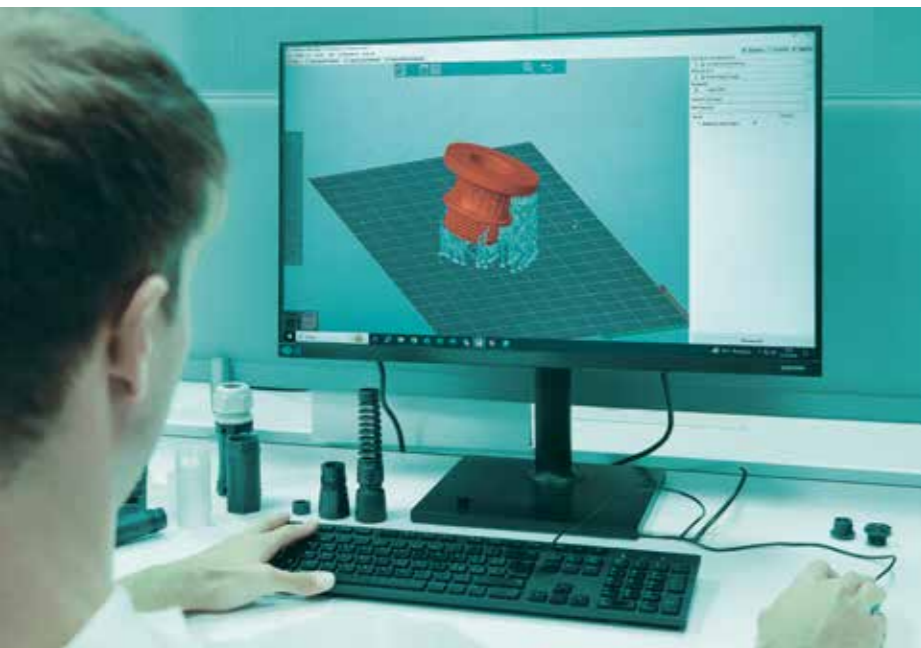
From design, technical planning and production printing to customising each component and launching to market, with the new Techno's 3D printer, you can test the market response to your products, even in small or single-unit quantities, with significantly reduced costs and lead times.



A multidisciplinary team of professionals is always on hand to help.

A diversity of skills and an agile and flexible approach allow Techno's Innovation Team to adopt a constantly original and responsive working method.

The goal is to anticipate the needs of customers and trends in various sectors, uncovering new paths and opportunities and exploring new ways of designing to find innovative solutions.



Discover the new 3D printer from Techno's Innovation Lab and test your business idea quickly and safely.



## Our services



### PRODUCT DESIGN

We collaboratively develop a customised design with you, seamlessly integrating technical and aesthetic aspects.



### MODELLING

Our team creates or refines the CAD drawing to make your idea a reality.



### MATERIAL SELECTION

We propose different categories of advanced materials for various applications, always supporting you in choosing the most suitable material.



### 3D PRINTING

We use P3™ DLP technology whether printing individual units or small batches, optimising the repeatability, costs, stability, and quality of the processes.



### PRECOMPLIANCE

Techno conducts all the necessary tests on 3D printed parts to ensure high product quality and suitability for the required use. Key tests include resistance to dust and water (IP), aging, heating, electrical, and mechanical tests (IK).



### MASS PRODUCTION

We also provide assistance in large-scale production through thermoplastic injection moulding.

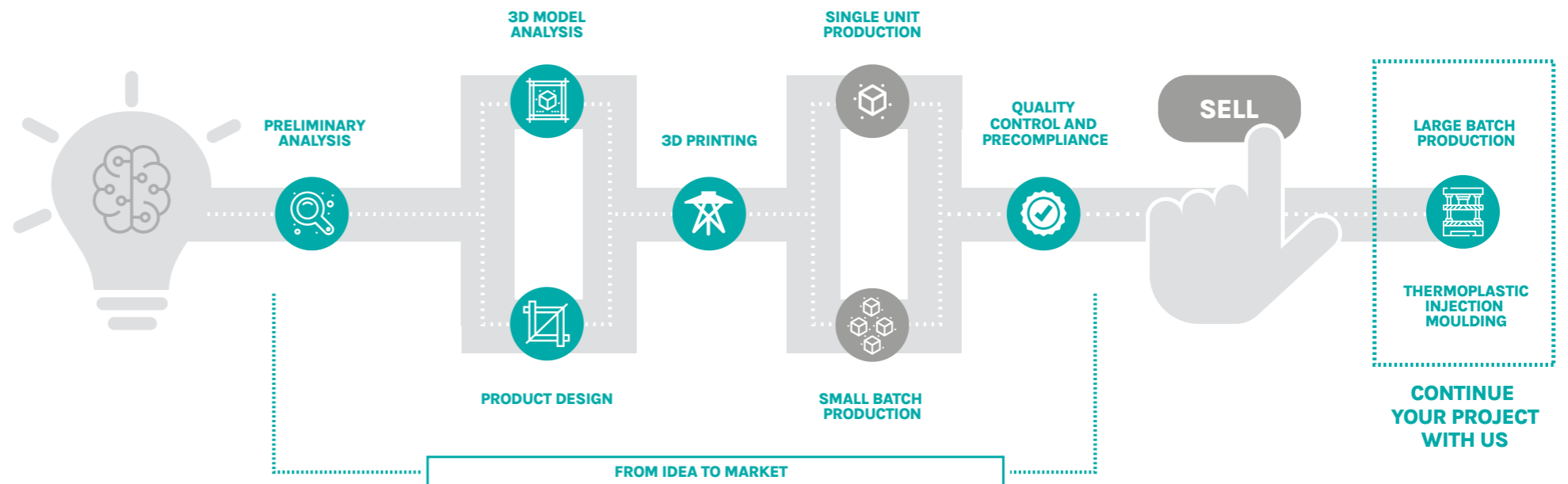


## Why choose the new Techno 3D printer

Up to 70% reduction in production costs and up to 60% reduction in waste of raw materials.

Up to 2 times faster delivery times than the best-known alternative 3D printers on the market.

## Test your business idea in the shortest possible timeframe

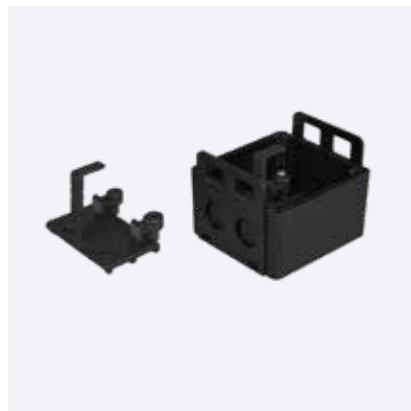


## Some case studies



### Limitless integration of the TH212 junction box thanks to new accessories

A series of accessories have been created to connect, assemble and secure various products to the cover of the TH212 junction box to increase its versatility. Thanks to the specific high-performance materials used, these accessories have also achieved an IK09 protection rating.



### New frontiers for customising the TH212 junction box

Techno has developed a series of internal supports to simplify intervention by the operator and optimise the integration of various IoT<sup>®</sup> components with the TH212 junction box. A flexible mechanism that, thanks to the material's advantages, ensures compatibility with numerous electronic components.



### TH400UP connection joint compatible with Wago terminal blocks

This connector with its smooth design was created to integrate the Wago 221 terminal with the Techno TH400UP connector and offers the possibility to choose the number of poles to use for each electrical application. Resistant to thermal and current stress, and impacts (IK08), it also ensures IP68 protection and makes it easily possible to inspect connections and components thanks to the semi-transparent version.



### A new IP65 connection solution for IoT

Techno and Arduino have developed an innovative containment box aimed at extending industrial applications outdoors, focusing particularly on integrating Machine Learning functionalities: IP65 protection rating, durability in various environmental conditions, and modularity (integration is guaranteed not only for Arduino boards but also for other IoT applications and tools).



### New sensors for the automotive industry

Techno has designed components for different types of sensors: parking and anti-theft (ultrasonic and volumetric). Aesthetic and mechanical performance are effectively combined, even in the thinnest parts. The parking sensors are combined with a control unit that has been designed and tested to withstand the mechanical stresses it may experience inside the engine compartment.



### Maximum precision for automation and robotics

Techno has produced the plastic part of the spools used for pneumatic solenoid valves and printer circuits. Despite critical mechanical resistance to the pressure of the copper wound around the spool, Techno's 3D printer gives an optimal result, ensuring maximum precision in creating the slots for inserting the connecting terminals with the copper wire.



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Discover Innovation Lab's services and solutions

**Techno s.r.l.**

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