



## **PRECISION MACHINING**

FOR AEROSPACE  
& DEFENSE





## ABOUT **TECNO LANEMA**

### PRECISION MACHINING SERVICES

TecnoLanema is the brand representing the precision machining services of engineering plastics and aluminium business area and the main internationalization driver of Lanema Group.

The cumulative know-how, continued investment in Research & Development and Innovation, along with passion for what we do, enable us to provide an innovative, swift and precise response to the needs of our customers, while taking up a leading position worldwide in the production of high-tech parts.

Thanks to an optimized, balanced and certified combination of a specialized multidisciplinary team, with the most advanced technical software and hardware resources, TecnoLanema creates value for its customers/ partners throughout the entire project, from advising on materials to optimized development of each part.

Customers are the focus of our actions, as ethics, dedication, professionalism, commitment to quality and respect for the environment have all enabled us to warrant their trust on a daily basis.







## THE ASSURANCE OF THE BEST SOLUTION

35 YEARS OF CUMULATIVE KNOW-HOW

- / 35 years of know-how in the areas of engineering plastics and aluminium
- / Highly skilled technical teams
- / Vast experience in precision machining
- / Multi-industry expertise and knowledge
- / Partners with the world's leading manufacturers

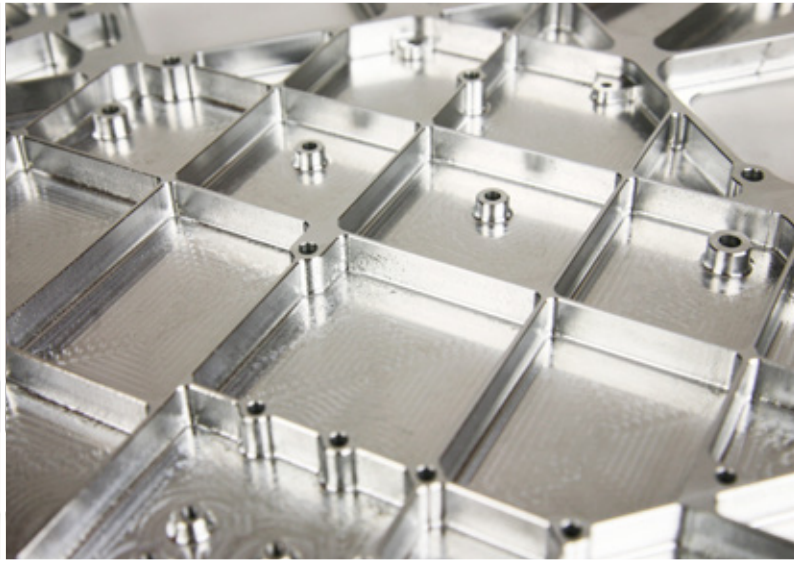
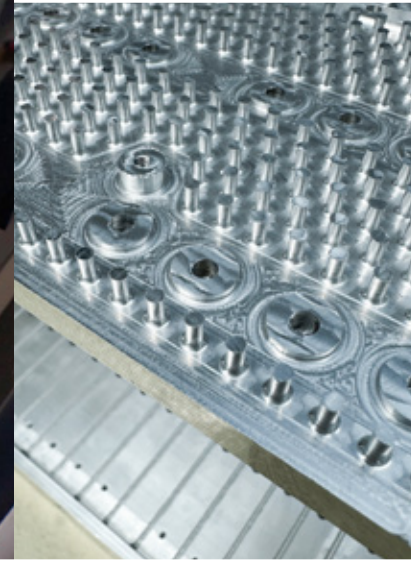
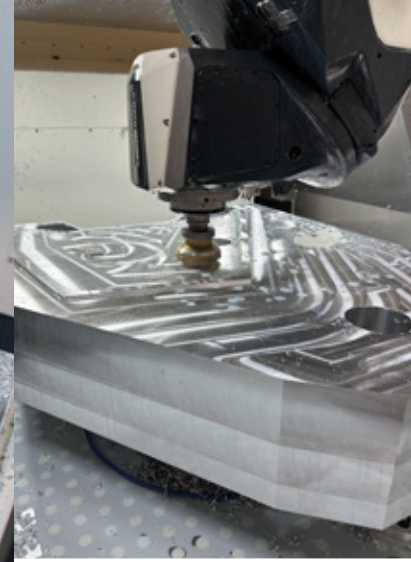
## QUALITY ASSURANCE CERTIFICATION



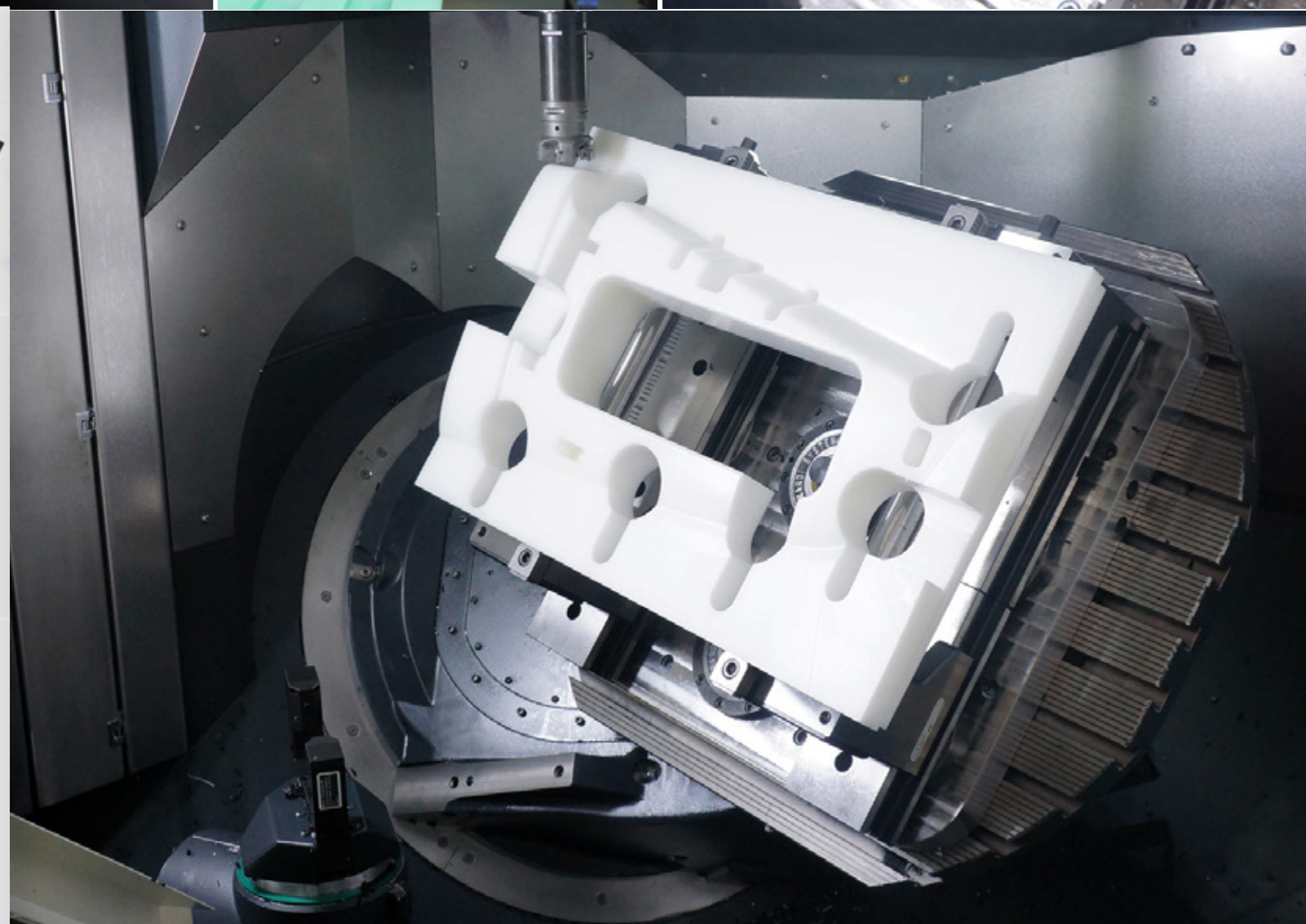
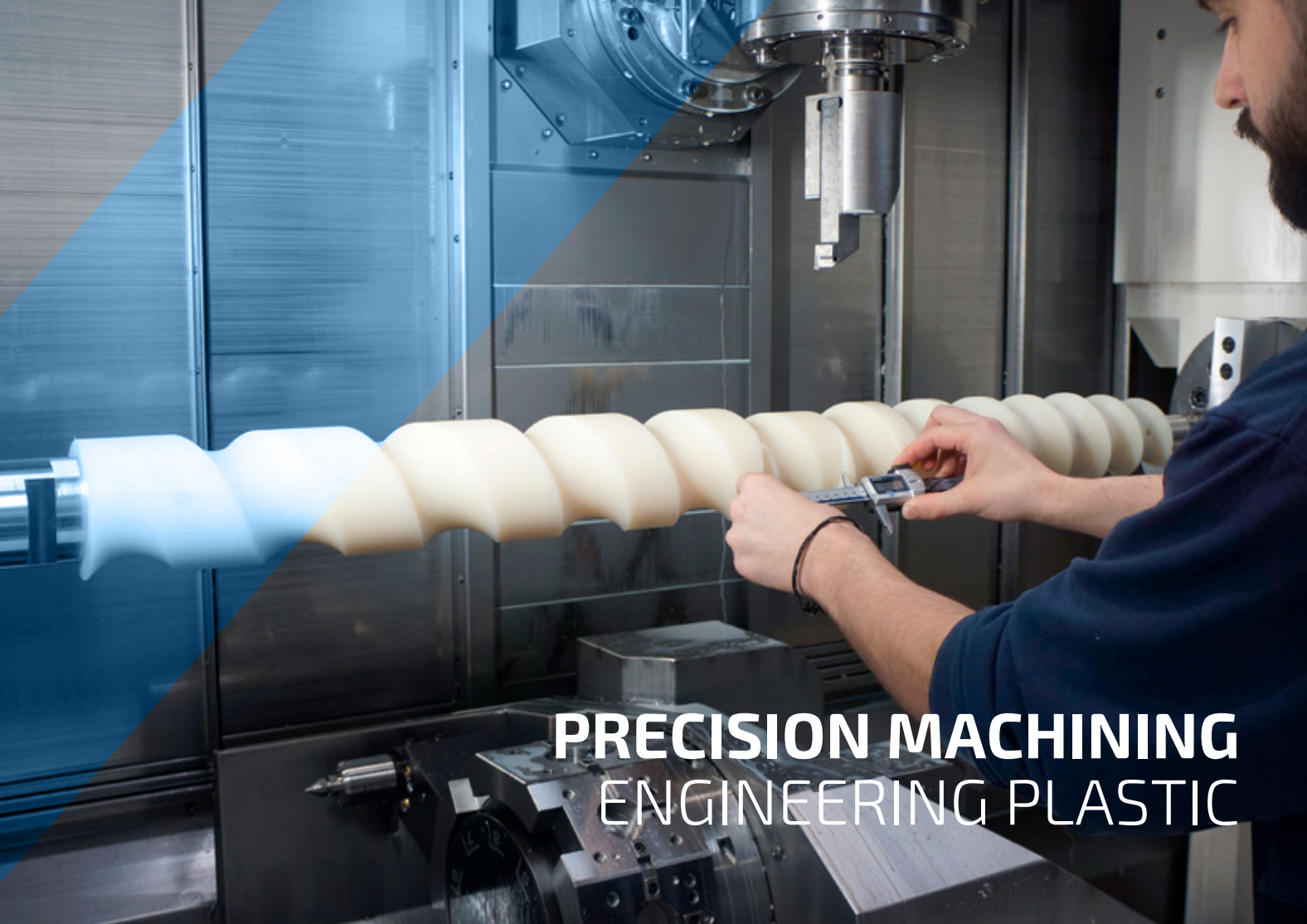




# PRECISION MACHINING ALUMINIUM















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**CNC Milling Machines**  
up to 5 axes with machine strokes  
up to 5400 x 2080 x 1060 mm

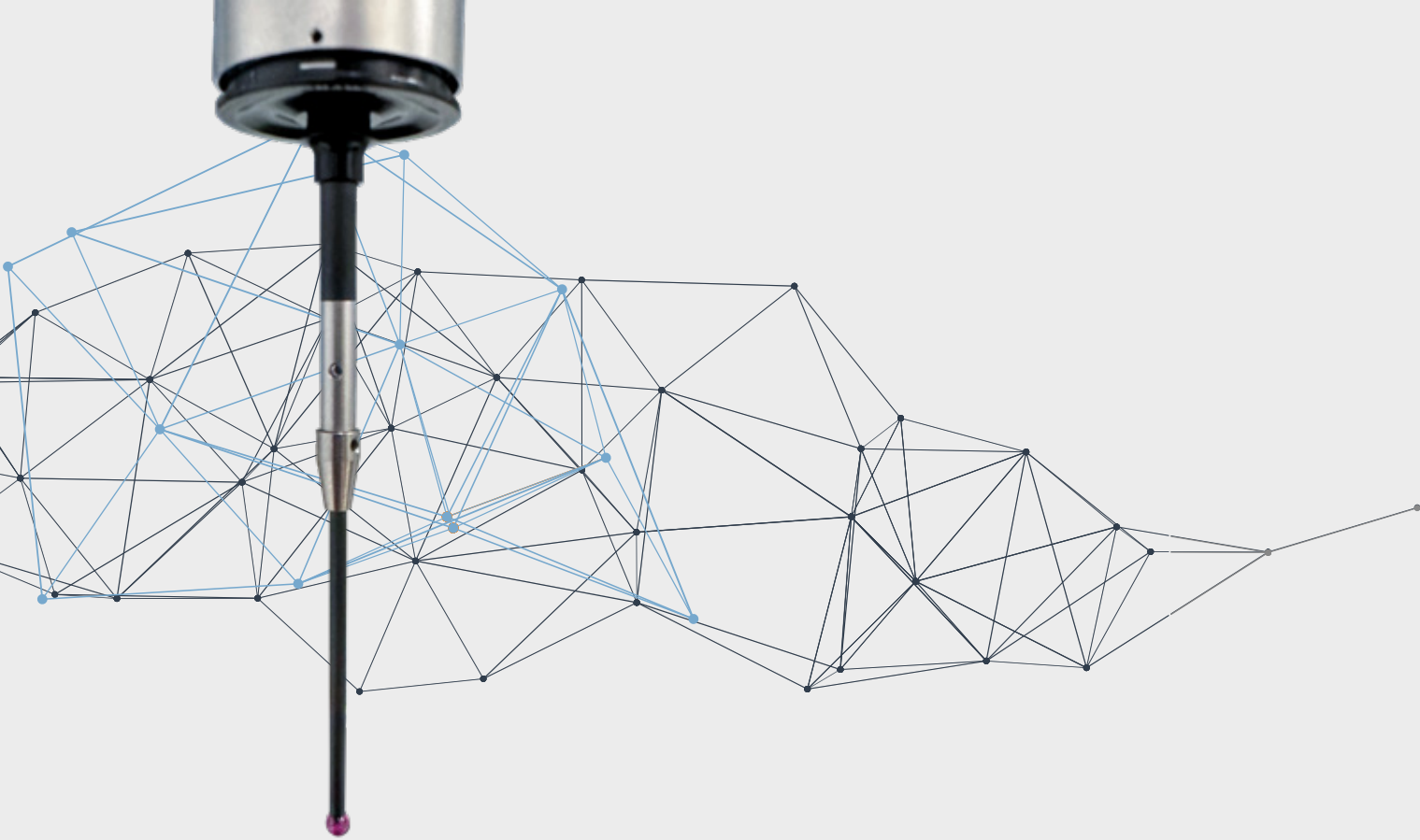
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**CNC Turning Machines**  
up to 5 axes with machine strokes  
on guides up to Ø 610 mm



**PLASTIC  
MACHINING AREA**





# CMM CONTROL

To ensure the quality of the end product, at Tecnolanema, every project undergoes dimensional control throughout the various stages of the production cycle, using various measuring tools (including 3D), examining surface conditions and early identification of possible deviations and geometric defects.

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**Dimensional control systems**  
up to 2500 x 1500 x 1000 mm







# IMPROVED RESPONSIVENESS

MATERIALS - EQUIPMENT - PROCESS  
STOCK COMBINATION

With regard to equipment with state-of-the-art technology and the production process, it is relevant to add and point out that such tools and processes are brought about thanks to an enormous financial investment made at Tecnolanema, by our company's board of directors, in order to provide and supply our customers with services and products of superior quality.


Such production elements are enhanced using resources that Tecnolanema already had at its disposal: one of Europe's largest technical materials warehouse, with thousands of references and tons of material in stock, namely engineering plastics and technical aluminium.


In addition, and because we believe in the value of partnerships with customers and suppliers, it is also thanks to strategic and preferential partnerships that we have with some of our suppliers, whether of materials or of freight companies, that we have achieved a level of performance attained by few companies worldwide. We currently have access to a matchless portfolio of technical solutions and to a level of swift, quality delivery services, which we share with our customers on a daily basis.

Thus, regardless of each project's degree of complexity or level of demand, Tecnolanema has what it takes to ensure top-notch responsiveness in the market, particularly for urgent projects.



  
**Availability  
of Materials**

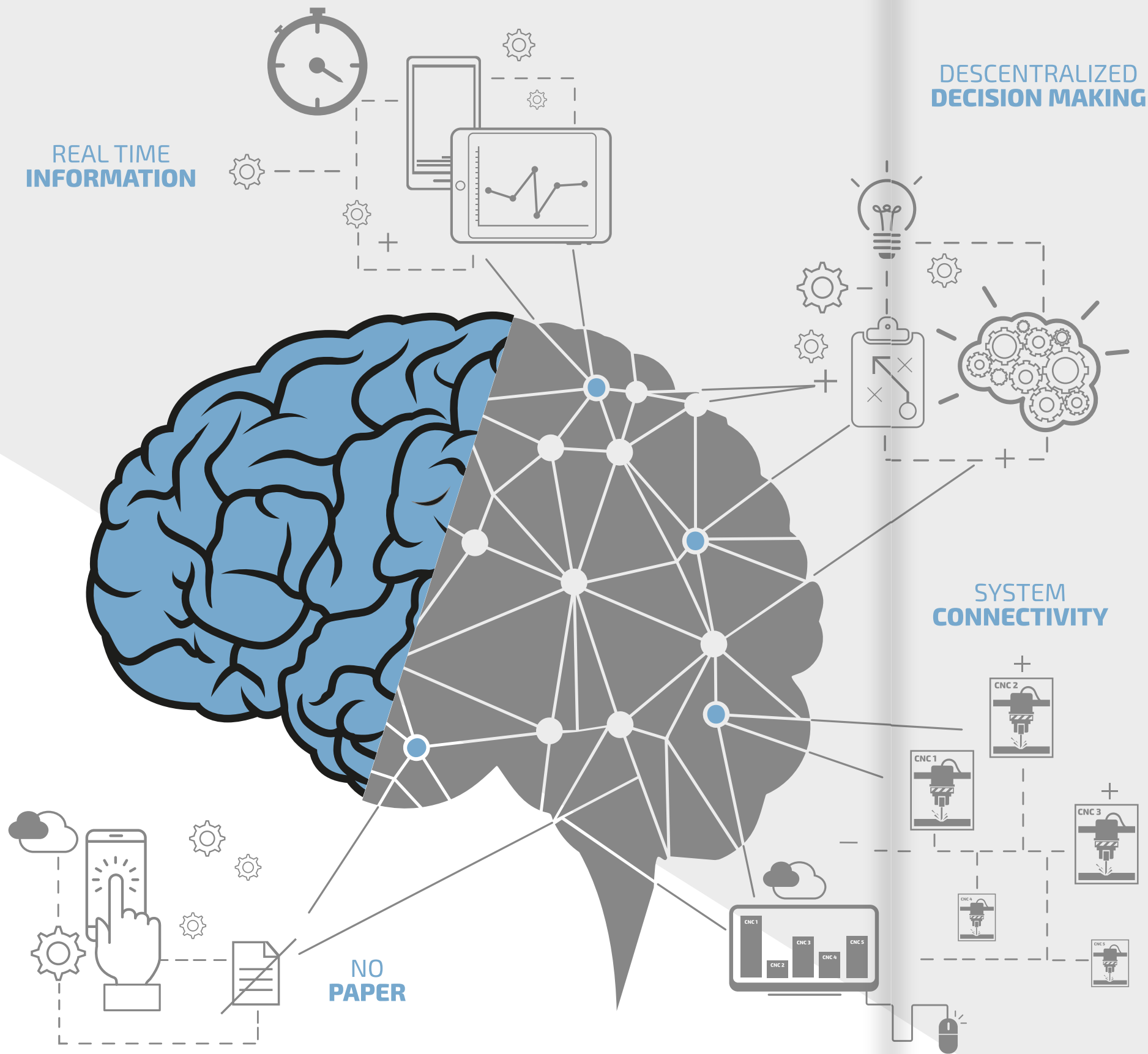
  
**Modern  
Production  
Process**

  
**Equipment with  
State-of-the-art  
Technology**

  
**Strategic  
Partnerships**







## PLANNING



# INDUSTRY 4.0

## THE PROCESS

Every project complies with a stringent procedural structure, which assures the quality and traceability of the entire process overall. Every project undertaken has to be thoroughly detailed, planned and conciliated, so as to meet every requirement and customer deadline.

In order to enhance efficiency and competitiveness, TecnoIanema involved all of its employees in developing a new and revolutionary technological strategy, by implementing a set of tools and systems that apply the principles of the so-called 'industry 4.0,' namely connectivity among (human and technological) systems, reducing/eliminating the use of paper ("no paper") and the virtualization of reality, by providing real-time information and decentralizing the decision-making process.

The digitalizing of our company now enables us to conduct real-time remote management of our machining's entire production process, which is able to make decisions in an autonomous/ decentralized manner. Such innovation results in greater flexibility in managing and programming production, greater balance between processes and jobs, as well as significant improvement in efficiency and efficacy throughout the entire process.


With a long-term outlook, we also ensure the replication of any component version for a period of 10 years, thanks to our system enabling documentary traceability.


**Let's turn our passion for what we do into innovation!**







  
**Renewable Energy**  
1364 photovoltaic panels

  
**Reduction of 226 tons of CO<sub>2</sub> per year**

**Lanema Group Rationalization Plan**



Autonomy  
41,3%



Energy savings  
36,6%



Since  
3,440,000 km



86 trips around  
the world



Aluminum and  
Plastic recycling



Treatment of  
other waste



Aware of our social, economic and environmental responsibilities, at Tecnolanema we have put in place a streamlining and utilization plan which has enabled us to reduce our environmental footprint over the years.

This result has been achieved by optimizing and virtualizing the production process, which not only generates gains in productivity, but also allows rationalizing and increasing energy efficiency, along with decreased use of paper, via our “no paper” project, thereby contributing toward the very sustainability of our corporate project.



# SUSTAINABILITY

LANEMA GROUP **ALWAYS GETTING GREENER**

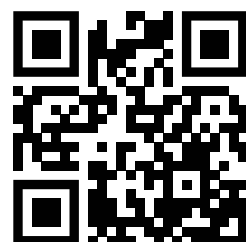




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[extranet.tecnolanema.pt](http://extranet.tecnolanema.pt)



# WHY TECNOLANEMA?

At Tecnolanema, our basic goal is to achieve and ever closer relationship with our customers and partners. To this end, we will continue to combine knowledge, expertise, capability and dedication, in order to ensure a sustained and continuous supply of high-quality products and services, thereby achieving levels of genuine long-term partnership.

Wishing to integrate current and future projects for all our customers, below is a list of some of the most significant competitive features and advantages at Tecnolanema:

- / Continuous focus on customer needs
- / Cumulative know-how from 35 years experience in materials and machining
- / Multi-industry expertise and knowledge
- / A strategy of continuous modernization and qualification
- / Partnerships with some of europe's leading suppliers of materials
- / A unique combination of team + process + technology
- / Dedicated machining areas



**SHAPING**  
YOUR PROJECTS





## SHAPING YOUR PROJECTS

WWW.  
TECNOLANEMA.  
PT

**Tecno Lanema, Lda.**  
Zona Industrial de Ovar  
Rua do Brasil, N.º 143  
3880-108 Ovar - Portugal

T: +351 256 581 401  
F: +351 256 581 419

GPS: 40° 52' 55.164" -8° 37'  
tecnolanema@lanema.pt

