

The image shows a perspective view of an industrial factory floor. The floor is covered with a grid of metal plates or components. In the background, there are various industrial structures, including overhead beams and machinery. The entire image is overlaid with a semi-transparent orange color. The logo for EECRIMESA GROUP is centered in the middle of the image.

**EECRIMESA**  
GROUP

The company was originally founded in 1964 in the northern Spanish city of Santander and has remained operating from this location ever since.

Providing the most efficient technology for each client, Ecrimesa Group develops efficient steel and aluminium parts with Investment Casting, MIM, Machining and Additive Manufacturing.

With a staff of 300 employees, Ecrimesa Group combines youth and experience to obtain a dynamic and modern company.

With the service we offer to our clients as a primary focus, we invest heavily in innovation to optimise our efficiency and our commitment to the environment.

*Moving forward to seize the industrial transformation.*



# Technologies

- Investment Casting.
- Metal Injection Moulding.
- Machining.
- Metal 3D Printing.



## Investment casting.



Ecrimesa Group offers the experience of more than 7,000 projects developed since 1964 with alloys, stainless and carbon steel as well as aluminum.

With a production capacity of more than 10 tons of steel per day, we also offer complete parts including finishing works and heat treatment.



### Technical Office and Tooling Plant

Mould manufacturing workshop equipped with modern machinery (wide erosion, 5 axis high speed machining centers).

Technical office equipped with 3D CAD-CAM Pro Engineer and Hypermill



### Wax Injection

With automatic, semi-automatic and manual injection machines.

Also equipped with and automatic de-waxing installation for the soluble wax cores removal



### Ceramic Shell Room

With two robotic automatic lines, operating on strict conditions of temperature and humidity, controlled by modern air-conditioning systems.

These installations yield a large production capacity and flexibility.



### Melting Plant

Equipped with two sets of variable frequency induction furnaces (in total 5 furnaces) with yield in excess of 12.000 Kg of molten steel per day.

Samples are sent via pneumatic line to the metallurgical lab where we can analyse and certify each casting in a few seconds.





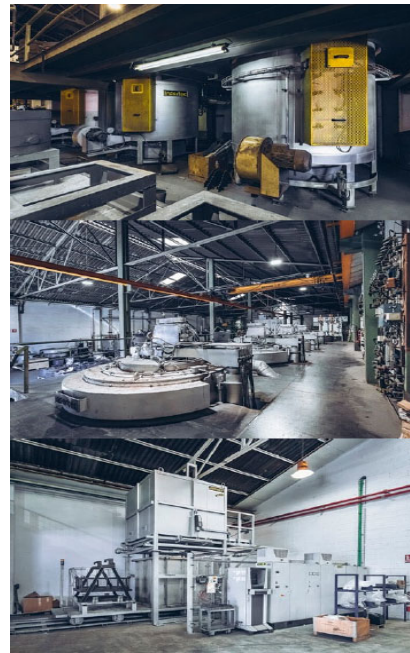
### Cutting and Polishing

Robotic cutting system, part by part or by elements of the three



### Calibrating

Erimesa Group develop special tools for coining operations in order to optimize tolerances or ranges of tolerances



### Heat treatment Plant

A wide range of heat treatments is offered as a complement to the cast component. These are performed either in close-working subcontracted companies or in house installations.

Our heat treatment furnaces are certified according to standar CQI-9 of Heat Treat System Assessment



### Pickling Plant and Surface Finish

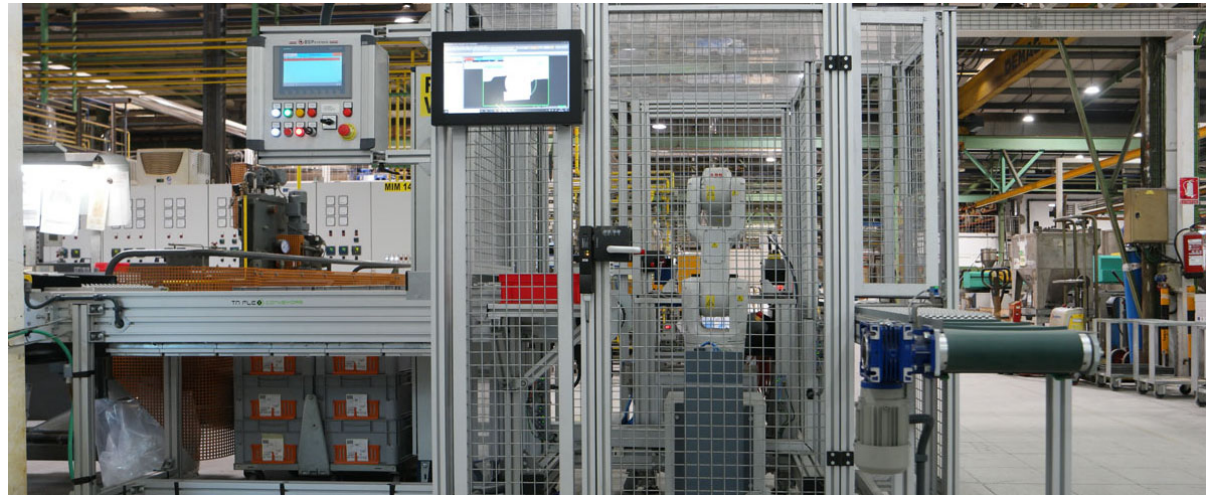
Own plant fully automated and with pre-established programs

In-house services also include shot blasting processes with glass or corundum.

We can also include other surface treatments (bluing, nickel or zinc plating, manganese phosphating, etc.)



## Metal Injection Moulding.



Being the first company in the world to produce in a continuous process furnace, Ecrimesa Group has developed over 2.500 different references since 1993, working alongside customers from over 20 countries and from a wide variety of industries.

The mould manufacturing workshop is equipped with state-of-the-art machinery, such as wire-erosion machines or 5 axis high speed machining centres.





### Injection machines and Automatic Manipulation Plant.

16 full automatic injection machines with robotic handling systems, which yield a high level of quality and productivity

The installations are equipped with optical inspection systems able to meet the highest quality requirements

Installation with artificial vision and manipulation for certain projects with high volumes or special characteristics.



### Continuous Furnaces Plant.

4 continuous sintering and debinding lines.

These installations allow us the production of more than 1.5 million of MIM parts per month.

Our automated production lines allow the production of parts with no manual handling from the injection of the parts to their exit of the furnace



### Batch Ovens

2 batch lines for sintering



### Metallurgical laboratory and R&D. Quality and Metrology

Our metallurgical and metrological laboratories are the main axis of the productive process and the finished product.

Their staff composed by young technicians with wide experience in MIM technology is a differentiating asset from other MIM plants





## Machining Plant.



Ecrimesa Group has modern machining installations, either horizontal machining centres (Matsuura and Mazak), Vertical machining centres (Chiron), or numeric control lathes with or without motorised heads like Muratec, Okuma, etc.

We design all our machining and controlling tools. We take responsibility, alongside the other productive plants of the group, for the supply of parts according to the needs of the customer. This includes the assembly of sub-components when necessary.



## Metal 3D Printing.

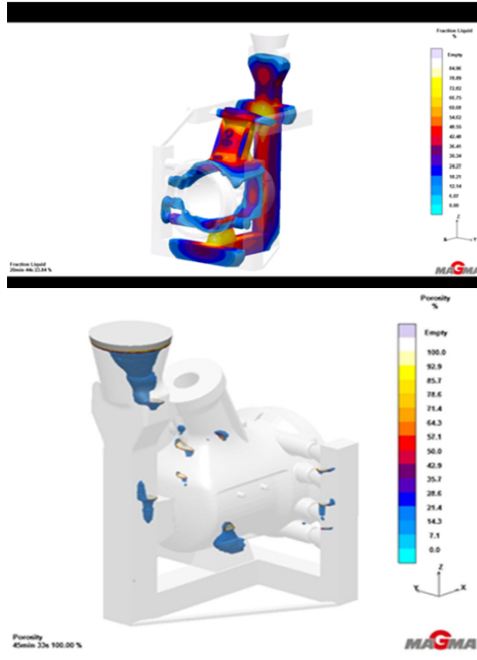


Ecrimesa Group has focused on this new technology for more than three years now, stemming from a collaboration with main universities and R&D centres of the Spanish Ministry of Science and Innovation.

We currently have two FDM printers in order to build prototypes and small series of MIM pieces, as well as a printing machine to deliver wax parts without a metal mold for investment casting.

# Quality and homologations





### Simulations

Magma and Inspire Cast simulation systems for melting processes to collaborate with our customers while developing new products and improving them

Sigma Soft for Metal Injection Moulding simulation

We support the design as well as the decision which materials to use, while taking into account their production features



### Testing machines

PT installation in plant with operators with level 2

Magnetic particles in plant with operators nivel 2

Rx equipment in plant with operators nivel 2 (and 3 outsourced)

Workers certified for welding operations



### Metallurgical Laboratory and R&D. Quality and Metrology

The most modern technologies to guarantee quality to our customers, both from a metallurgic and a dimensional point of view

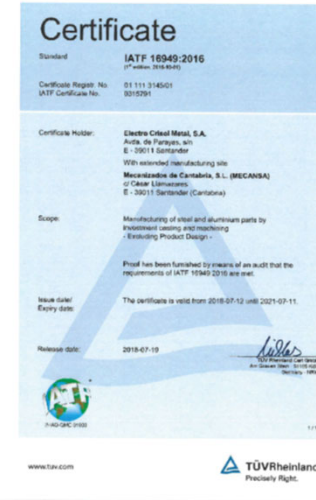
Including espectometers to guarantee the composition of the castings, X-ray with digital tomography or systems of contact measuring, visión or White-light against 3D.



# Homologations

Mimecrista, certified according to the IATF 16949:2016, DIN EN 9100:2016, ISO 14001:2015, has the following main strategic objectives:

- Full customer satisfaction, providing quality in both products and services.
- To achieve a continuous improvement in the quality and productivity of our services and products.
- To promote training, awareness and personal involvement of the staff to overcome the problems and assure an improvement in the quality of their work.



IATF 16949:2016



DIN EN 9100:2016



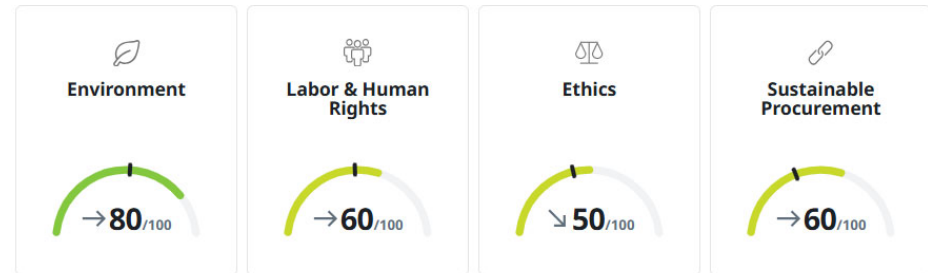
ISO 14001:2015



Overall score

Percentile  
85th ⓘ

↘ 67/100



Our company has been awarded a Silver medal in recognition of its achievements in sustainability by Ecovadis.

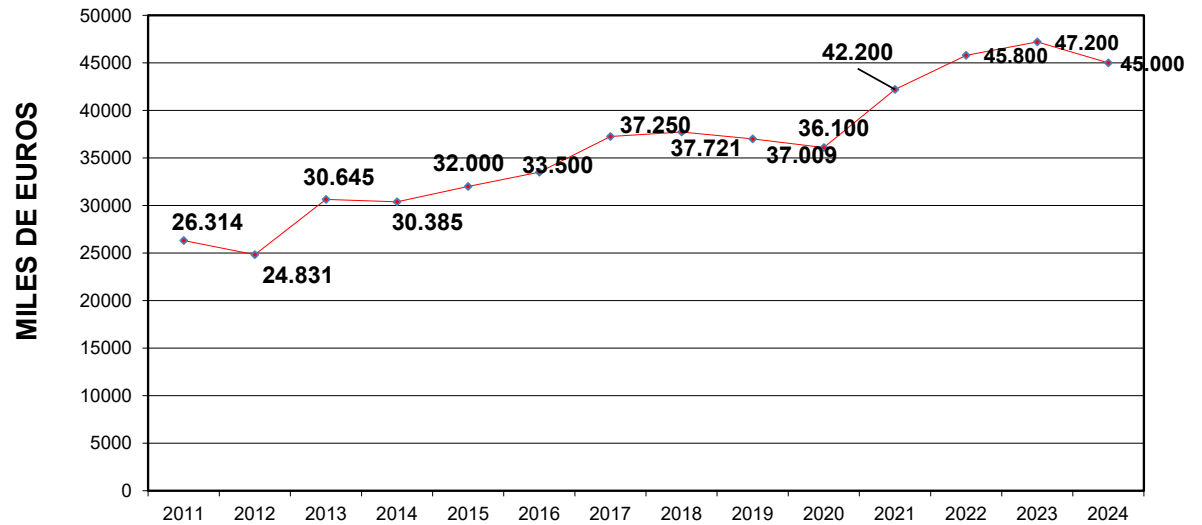
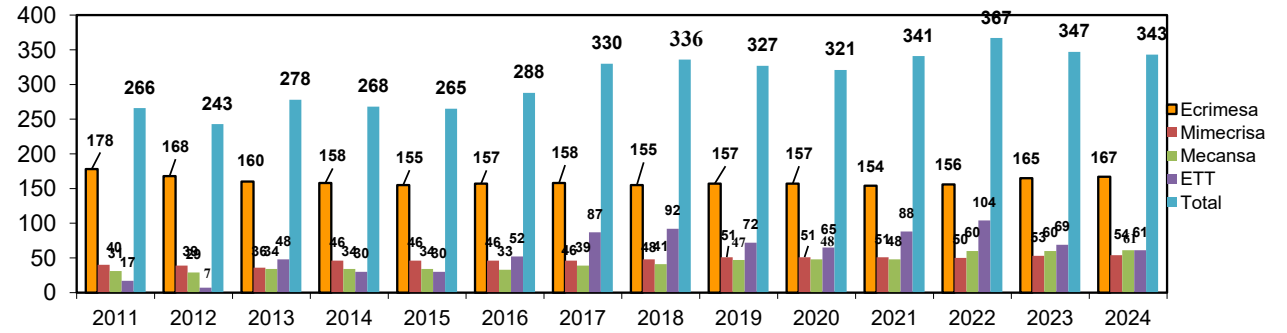


# Facts and figures



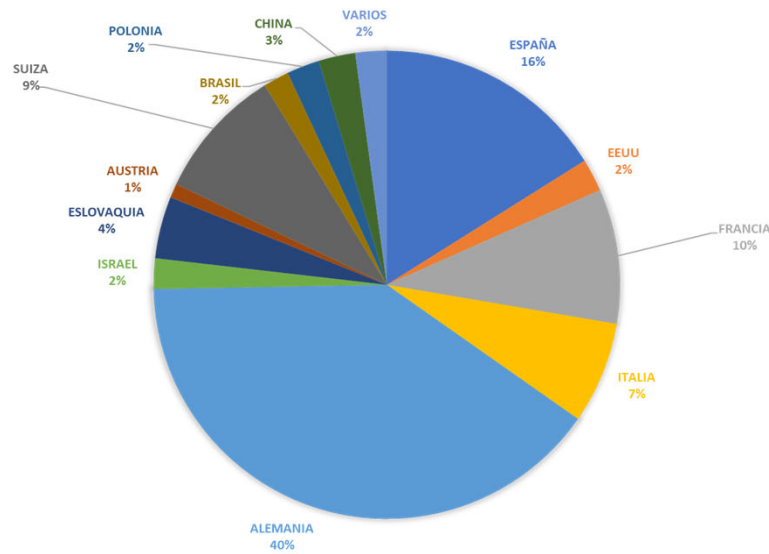
Total sales  
Ecrimesa  
Group

## STAFF

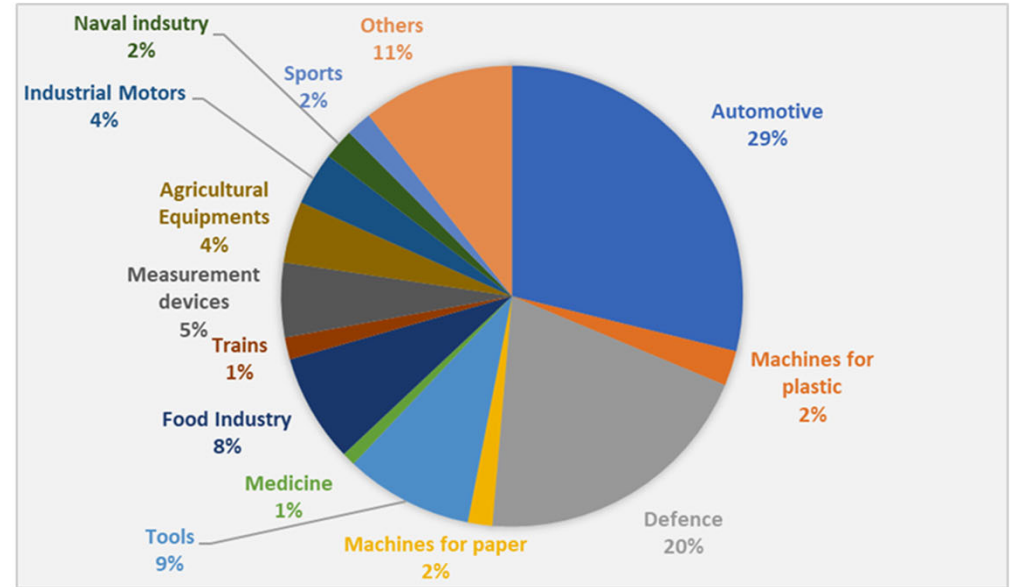




# Investment Casting



Sales per Country

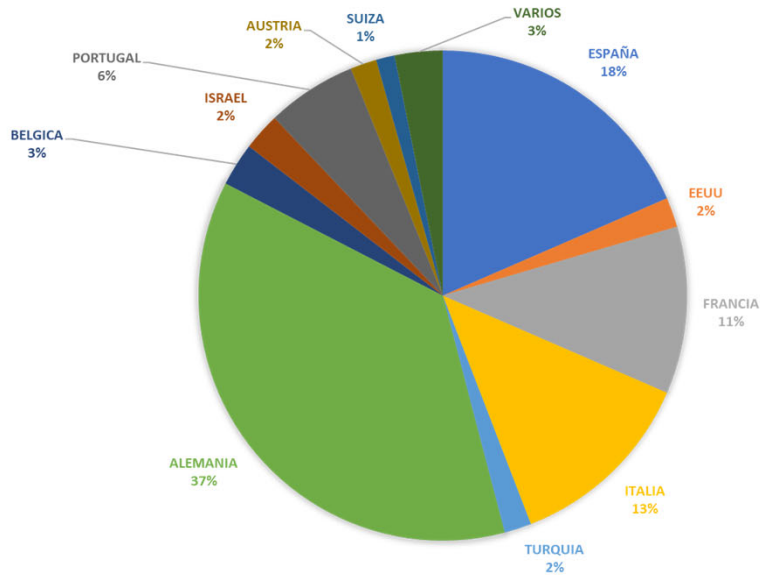


Sales per Sector

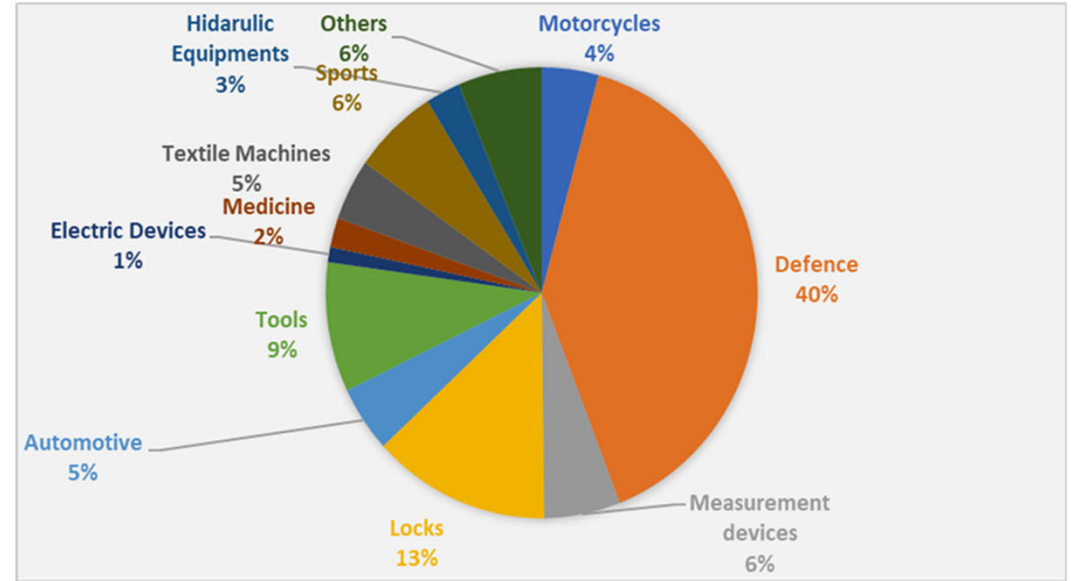




# MIM



Sales per Country

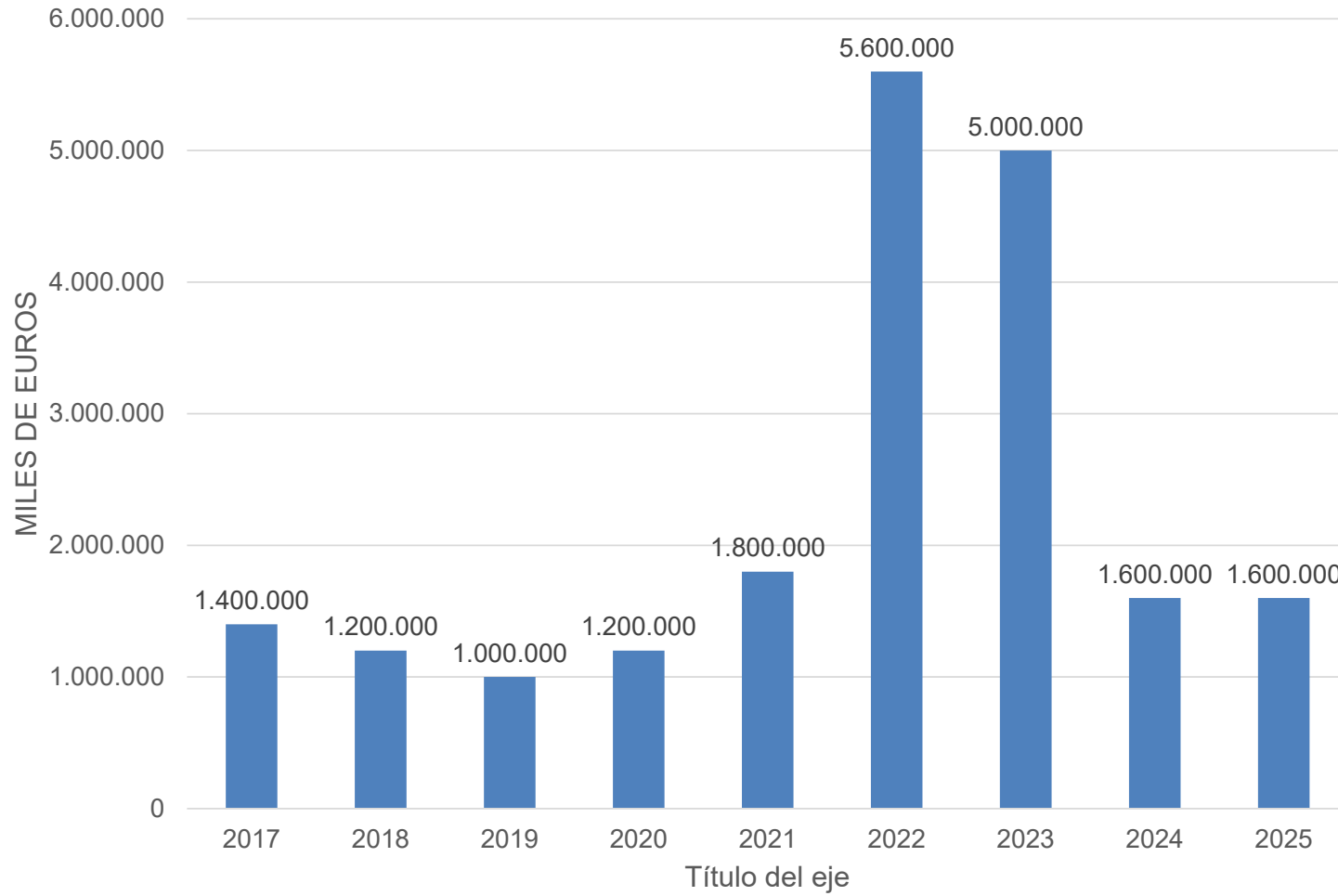


Sales per Sector

# Last investments



## INVESTMENTS







Last investments.

New MIM production plant in  
Thomasville- Georgia

Total Investment: 6 million  
Euros





Last investments.

With the acquisition of our latest plot, we've extended our total area of facilities to about 20,000 m<sup>2</sup>, housing various plants and building heights.

MIM Master Furnace.  
This 4th continuous production line will increase our capacity by 30%.





Last investments.

New Ceramic robotized line to reduce our bottle neck in the IC plant and increase the production 20%.



Acquisition of two new injection moulding machines.



# Commitments

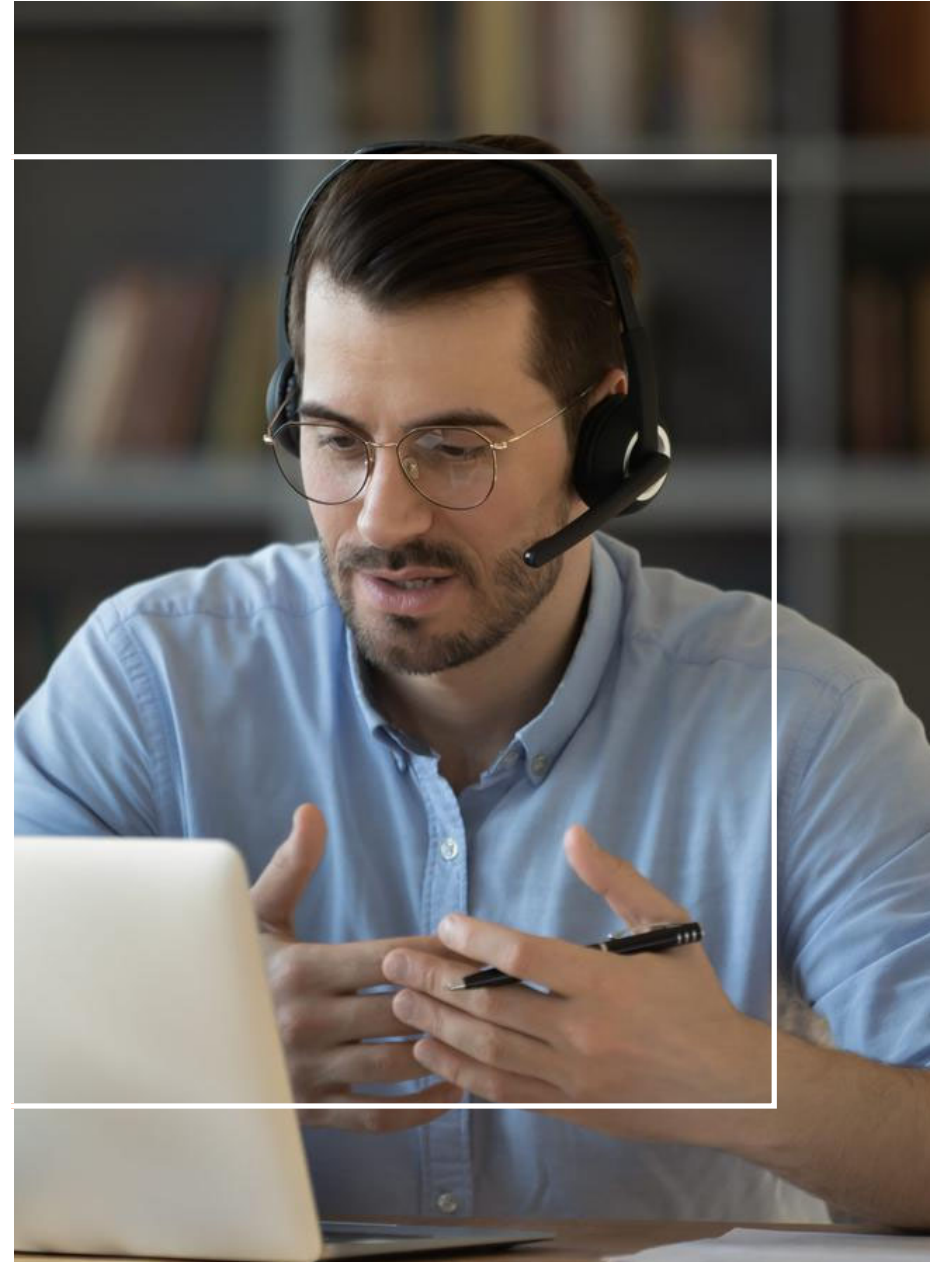




Commitments.

## Full customer satisfaction.

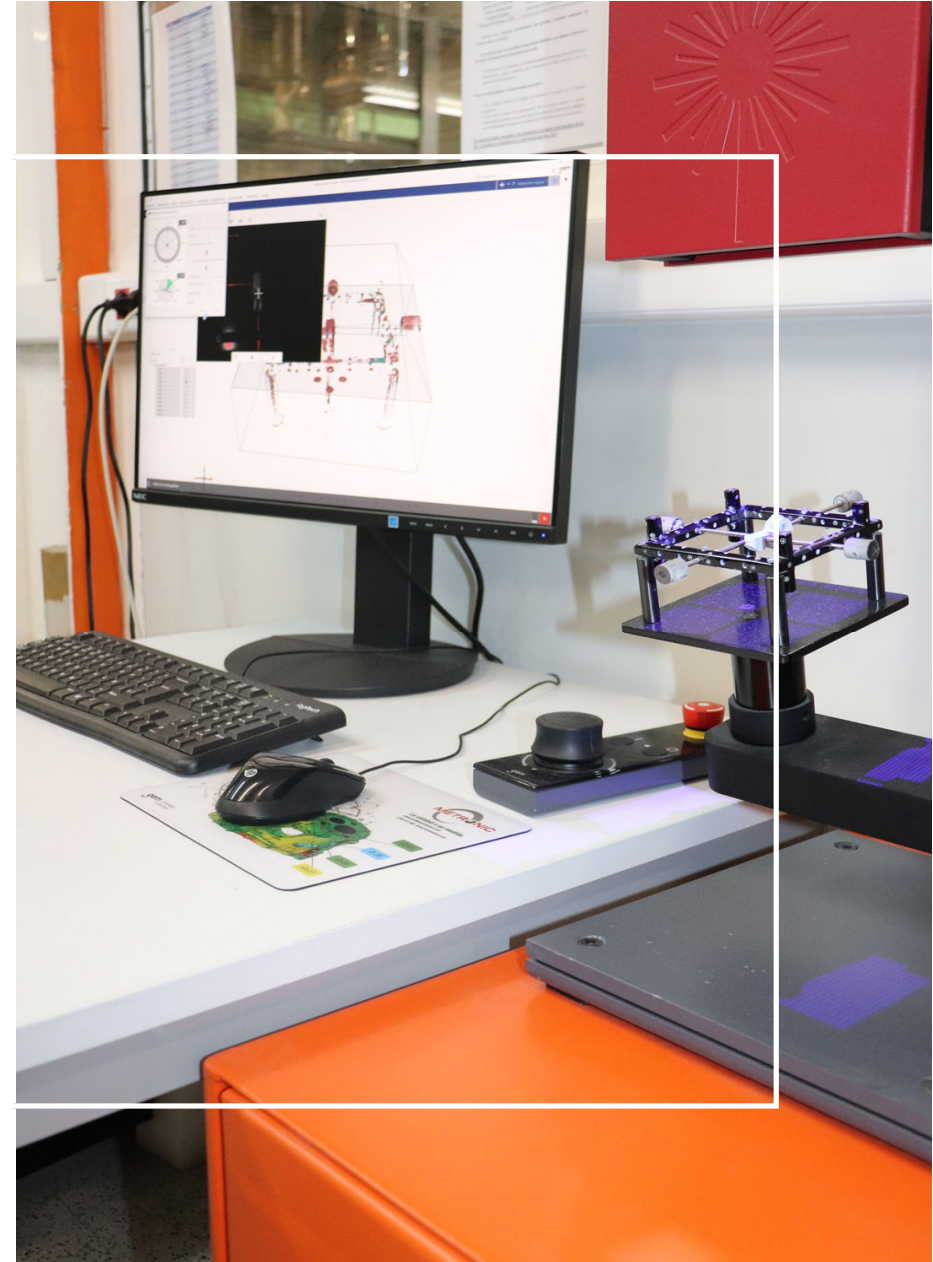
Our main strategic commitment is to provide our clients with full satisfaction through quality products and services.





# Continuous Improvement.

We aim to achieve a continual improvement in the productivity and quality of our products and services.





# Training.

We promote the training, awareness and participation of all the staff, so that they can identify and eliminate all those problems hindering the improvement of the quality of their work.







# Environment.

According to our ongoing commitment with the society and the environment, at least 10% of the annual investment budget is destined to reduce the environmental aspects of our production process.

The EN-ISO 14001 certificate was obtained in 2005.





# ECRIMESA GROUP

Avenida de Parayas s/n  
39011 Santander (Cantabria)  
SPAIN

+34 942 33 45 11 (tel.)

+34 942 34 65 49 (fax)

[www.ecrimesagroup.com](http://www.ecrimesagroup.com)  
[ecrimesa@ecrimesa.es](mailto:ecrimesa@ecrimesa.es)

