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aerospace

Microlan Aeroespace

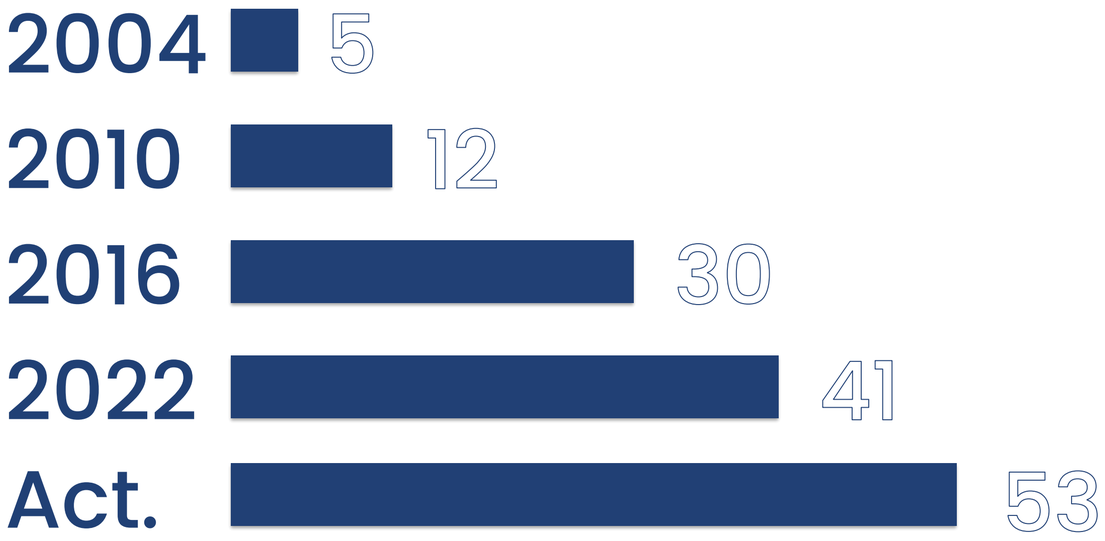
Specialized in the manufacture of precision mechanical components with high geometric and dimensional requirements for industrial sectors that demand an agile and precise service.



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Regular Growth

WORKFORCE EVOLUTION





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SECTORS

Aerospace
Semiconductors
Industrial
Research
Renewable Energies

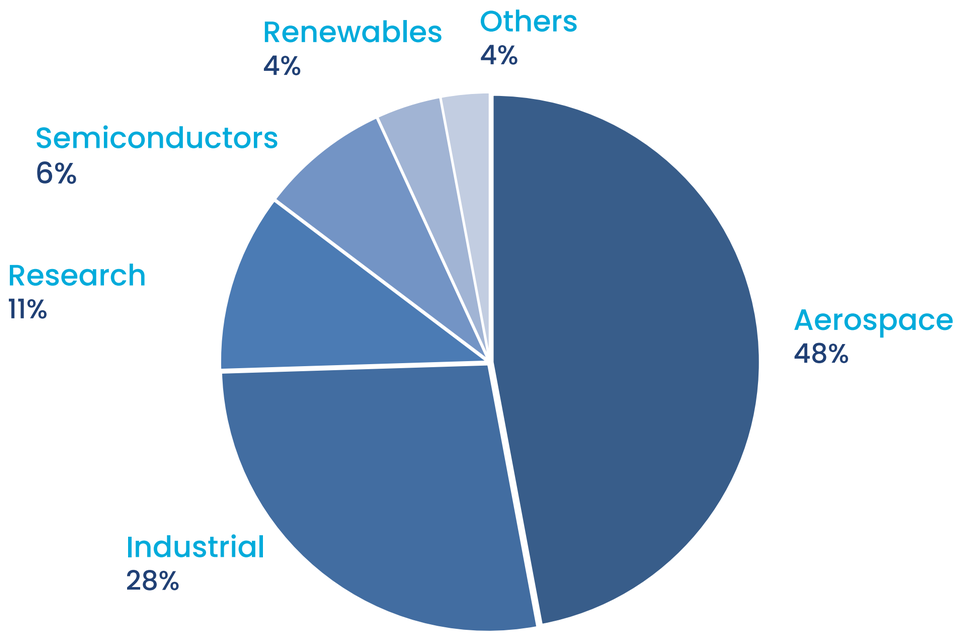


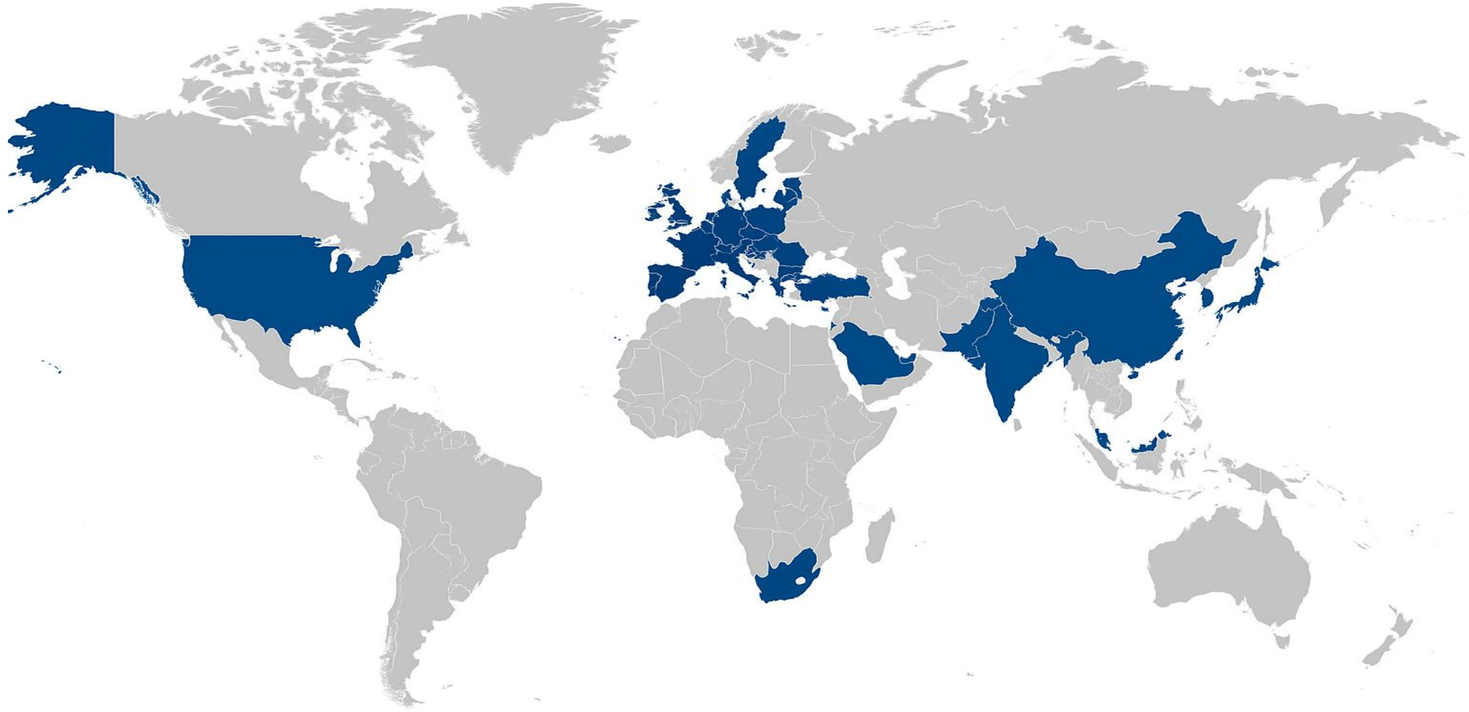
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Our Activity

20%
Exports





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Main clients

AVS added value solutions

Astronika

bradford space

PASQUALI microwave systems

INTA Instituto Nacional de Técnica Aeroespacial

DCUBED

CERN

gmv INNOVATING SOLUTIONS

ISP SYSTEM

AERnnova

senior Aerospace

ICEYE

ENDUROSAT

SENER

ess EUROPEAN SPALLATION SOURCE

EOSOL

PLDSPACE

indra

Anteral
Innovative Antennas,
Passives & Radar Technologies.

ThalesAlenia Space
A Thales / Finmeccanica Company

VDL

ORBITAL CRITICAL SYSTEMS
A CAF GROUP COMPANY

occam space

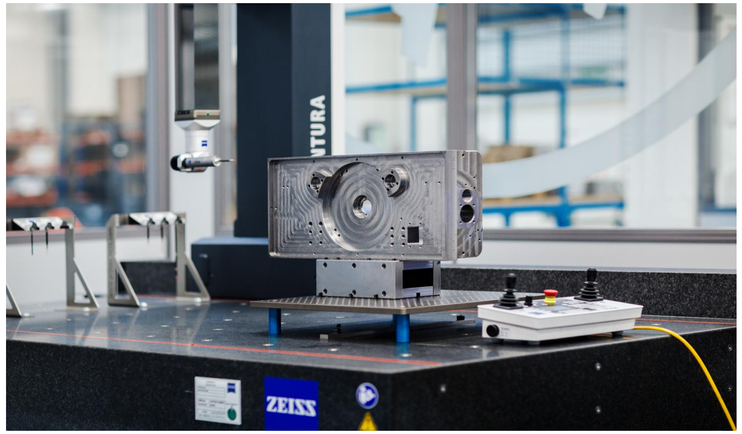
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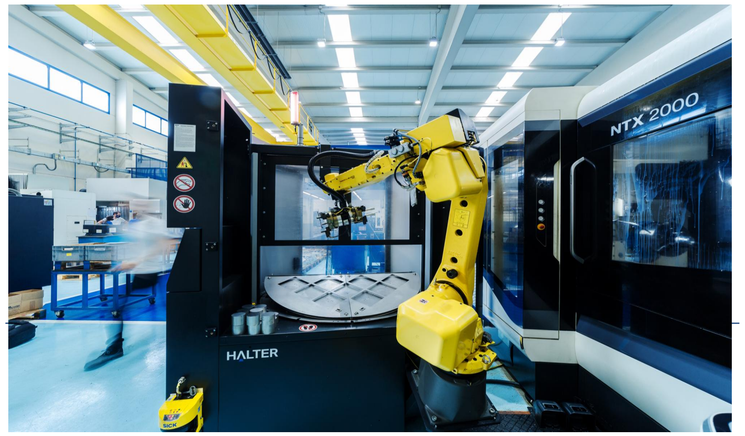
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Productive Excellence

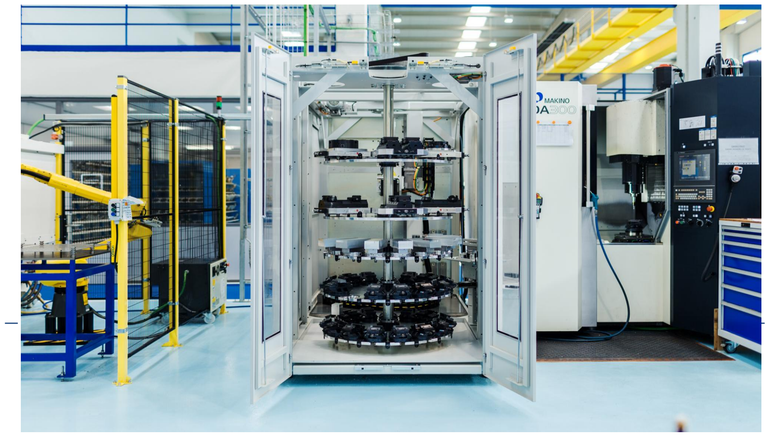












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Research, Development and Innovation

Development of the aerospace sector as strategic area

VENAVIA	2027-2029
GAS	2022-2025
VALIDDANTENNESS	2021-2022
Banda Q	2020-2022

FC-Space	2019-2020
GGW-Filtros	2019-2020
FCOMP	2018-2022
COMPACSAT	2017-2019
Manunet	2009-2012

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Anual production capacity

Turning

15.000 h

Milling

3 & 4 AXIS

15.000 h

Milling

5 AXIS

30.000 h

Wire EDM

5.000 h

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Turning

3 **Mazak** lathes:

Double spindle, Y axis, motorized tools and advance bars.
Maximun dimensions: Ø350 x 700 mm.

Mori Seiki NLX 2500 lathe:

Double spindle, motorized tolos.
Maximun dimensions: Ø350 x 700 mm.



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Multi-function turning

Multi-function **Mori Seiki NTX 2000**:

Double spindle, bottom turret, 86 tools equipped with Halter automation.

Maximum dimensions: Ø450 x 1.200 mm.



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3 & 4 Axis Milling

FASTEMS FMS flexible manufacturing cell with 24 pallets and 2 horizontal MakinoA61NX centres. 400 tool-store.
Maximum dimensions: 700 x 700 x 800 mm.

2 **Mazak VTC 300** with 4th axis integrated.
Maximum dimensions: 1.760 x 560 x 660 mm.



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5 Axis Milling

2 **MazaK VARIAXIS 630** vertical machining centres with double pallet.
Maximum dimensions: 700 x 630 x 510 mm.

Mazak 5-axis continuous milling machine, equipped with **Erowa Easy 10** automation and 48-tool store.
Maximum dimensions: Ø500 x 350 mm.



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5 Axis Milling

Small Parts and Large Production Series

High speed vertical machining centre **Fanuc Robodrill** with integrated 4 th and 5 th aces equipped with **Fanuc** automation for small-sized components.

Maximum dimensions: 600 x 300 x 350 mm.



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5 Axis Milling

Precision Parts

High-precision **Makino DA300** vertical machining centre with integrated flexible **EROWA 55** pallet manufacturing cell.

Maximum dimensions: 400 x 600 x 400 mm.

Makino D500 high-speed vertical machining center with rotary and tilting axes for complex geometries and high-hardness materials.

Maximum dimensions: Ø650 x 500 mm.



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5 Axis Milling

Large parts

Makino a800Z



5 axis horizontal machining centre, with HSK-100, high torque, high precision package, temperature control of the coolant and all the critical parts of the machine, 60-tool store and double pallet.
Specially designed for materials such as titanium, stainless materials, nickel based thermosetting materials and aluminium.

Maximum dimensions: Ø1.000 x 800 mm.
Maximum weight of the part: 1.000 kg.



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Wire EDM

Makino U6 H.E.A.T. EDM por hilo

5 axis wire EDM machine thermo- symmetric structure. Equipped with high speed HyperDrive technology and ultra- precision package.

Maximum dimensions: 650 x 450 x 420 mm.
Maximum weight of the part: 1.500 kg.
Precision: 1,5 µm.
Ra: 0,3 µm.



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Manual Operations

300 m² devoted to manual operations and machines





Assembly

200 m² devoted to the assembly of mechanical sets





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Quality Control

“The quality of our work and the excellence of our service are our marks of distinction”

Clean room with temperature and humidity control. Equipped with 3 **Zeiss** coordinate measuring machines: **Calypso** measuring system.

Renishaw Equator 300 High-Speed, Repeatable Comparative Measurement System.

Maximum dimensions: 1.800 x 800 x 1.000 mm.



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Quality Control

We are certified under the **ISO 9001** and **EN 9100** standards. Our commitment to continual improvement and quality in our management led us in 2019 to be awarded the Sello de Bronce (Bronze Seal) by the Fundación Navarra para la Excelencia in recognition of our advanced management.



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Tool Room

Air-conditioned clean room equipped with:

- HAIMER tool balancing.
- Haimer shrink fit.
- Presetting of Zoller tools.
- Stock management Tool 24 by Hoffmann.





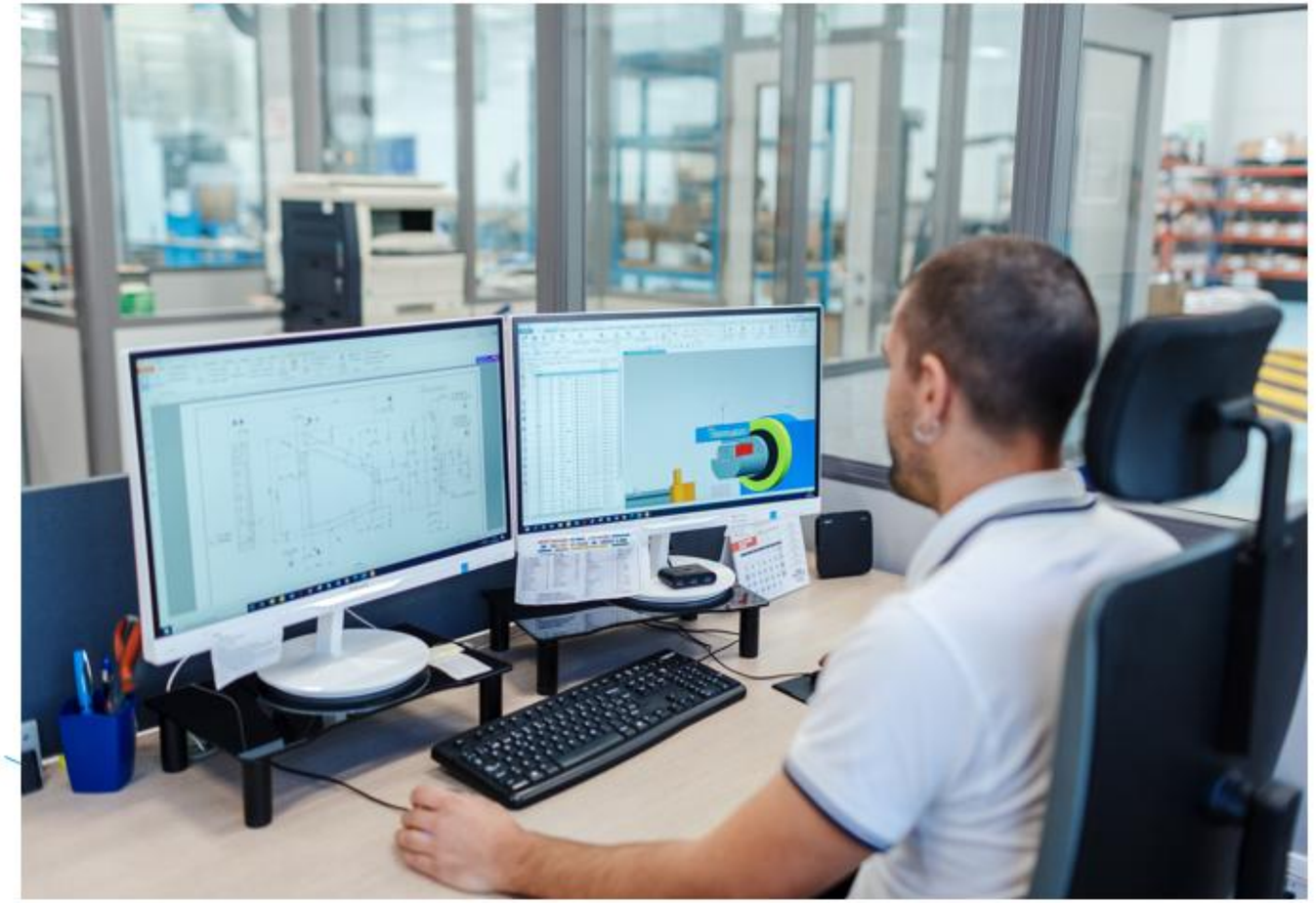
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Programming Room

PROCESS DESIGN

CAD/CAM Systems
NX Siemens, Virtual Gibbs

Tool management system
Jannus engineering



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Passion for Precision

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