

Our Capabilities:



Engineering CAD/CAM/CAE



High Precision Machining (5μ)



Finishing Processes



Special Processes



Mechanical Assembly



Certified Welding





Quality Control

Lines of Business



Airworthy Parts

- AOG Condition.
- High mix low Volume productions



Composite Materials

- Repairments.
- High performance molds.



Fixtures, assemblies & molds



Ground Support Equipment

- Manufacture and deliver.
- Aftermarket services.



Certified Welding



Die Casting

Distinctives





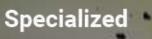


Low Volume



Projects







Quality Accreditation

We are committed to the quality of our products and services to fulfill the requirements of the industry standards, by the implementation of the following:

- AS 9100 D implementation and certification.
- Certified welding processes by AWS.
- **FOD Prevention Program** according to NAS 412.
- Continuous, external and On The Job, **Training** for all the personnel.

















High precision machining

(GSE) Maintenance Tools for Aeronautic MRO's Molds and counter-molds.

Composite material machining

Fixtures.

Devices, Assemblies and Dies.

Airworthy Parts.

Automatized Tooling.

Other applications: Automotive and forging Tooling.



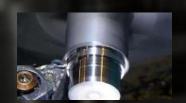
Lathes
Milling machines
3 axis CNC
4-FULL axis CNC
5 axis CNC
Grinding machine

High Mix, Low Volume

We are leaders of machined high precision parts.

We have the expertise in developing and fabricating parts made of different raw materials like:





Alloy Steels and Low carbon steels (4140T, A36, 1018, etc.)



Bronze & Titanium



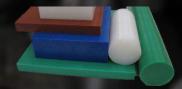
Aluminum (6061, 7075, etc.)



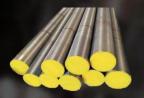
Stainless Steel (304, 316, 15-15PH H900, 17-4, etc.)



Inconel 718



Polyethylene (Nylamid, etc.)



H13 for forging tooling



Maintenance tooling and GSE for aeronautic MRO's



Development of custom-made tooling with the processes: design, machining, heat treatments, superficial treatments, assembly, welding, marking and/or painting.

Fixtures for seals in landing gear.

APU Dolly.

Radome Dolly.

Reverse Dolly.

Balancing Jig.

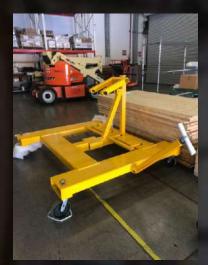
Landing gear handling trolley, etc.



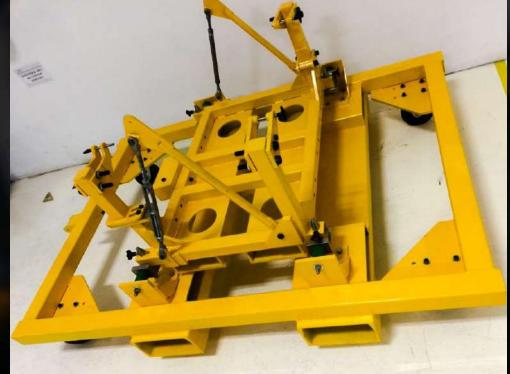




































Devices, Assemblies and Dies

Machining of different types of tooling to assure the correct production our clients.

- Assembly tooling.
- Drilling Tooling.
 - Poka Yokes and Gages







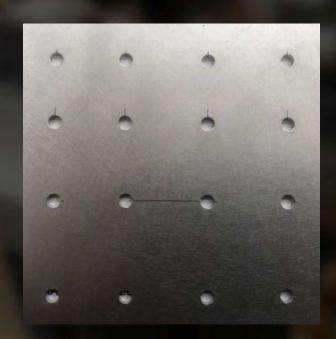




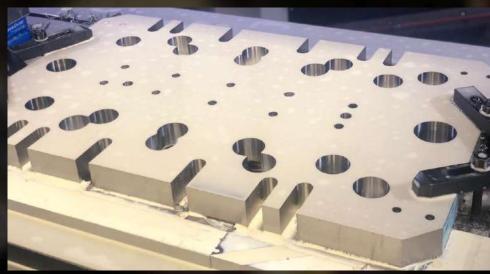






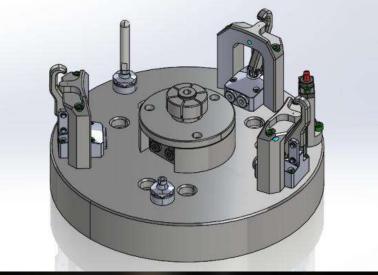
















Airworthy Parts

We are specialists on the production of airworthy parts for aerospace industry. With a strong experience, we develop customized parts for AOG (Aircraft on Ground) projects: reversed engineering, advanced machining and assembly with the quality inspection and certificates

of conformity for an adequate traceability.

Frames

Stringers

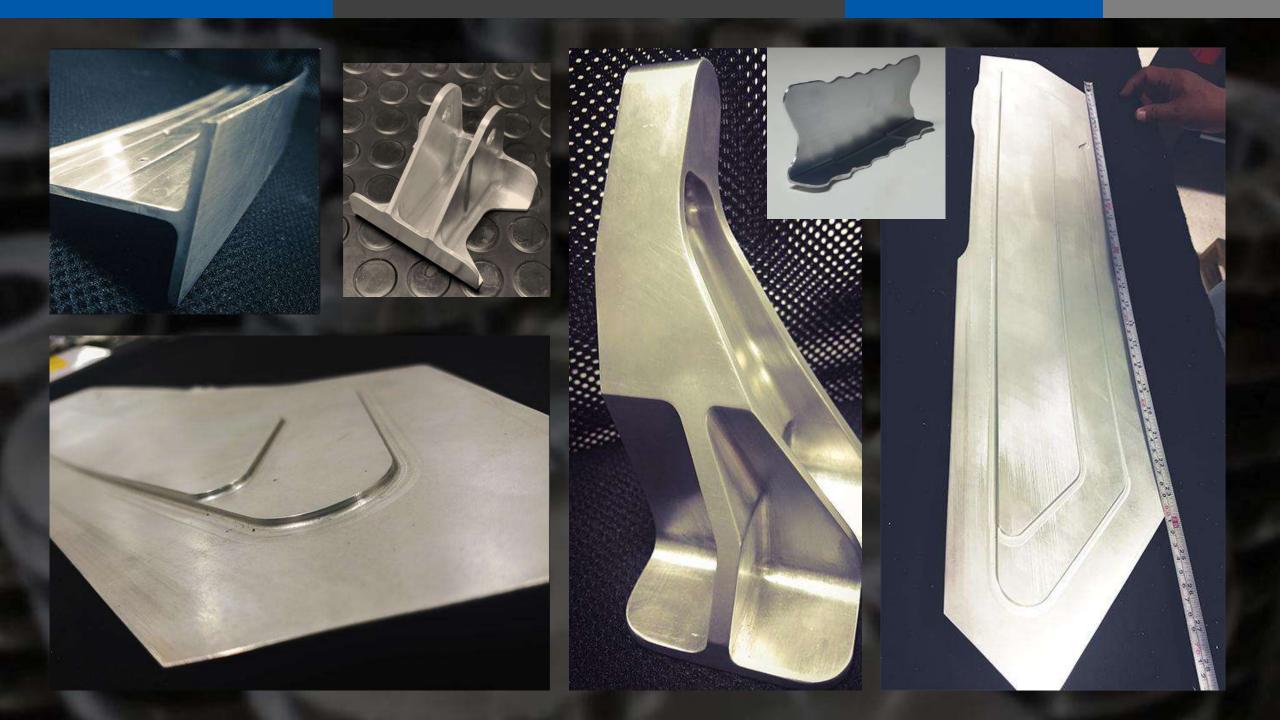
Brackets

Flange

Longerons

Fittings

Bushings





Automatized tooling

With pneumatic systems, hydraulic systems and programable logic controllers (PLC), we develop customized tooling for the automatized function of precise processes on diverse industries.

Atomataized machine

- Riveting automatized tooling.
- Automated tooling to lower the landing gear.











Design

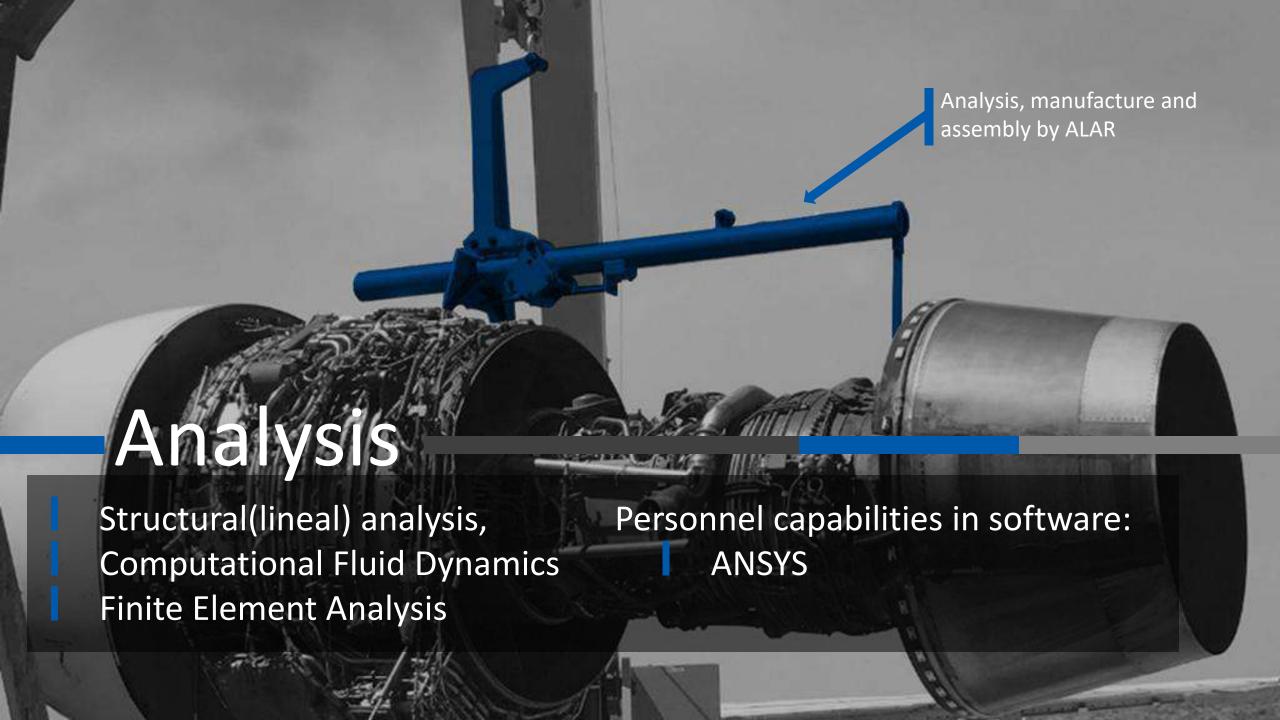
Fundamental part of our Company. Certified to give courses

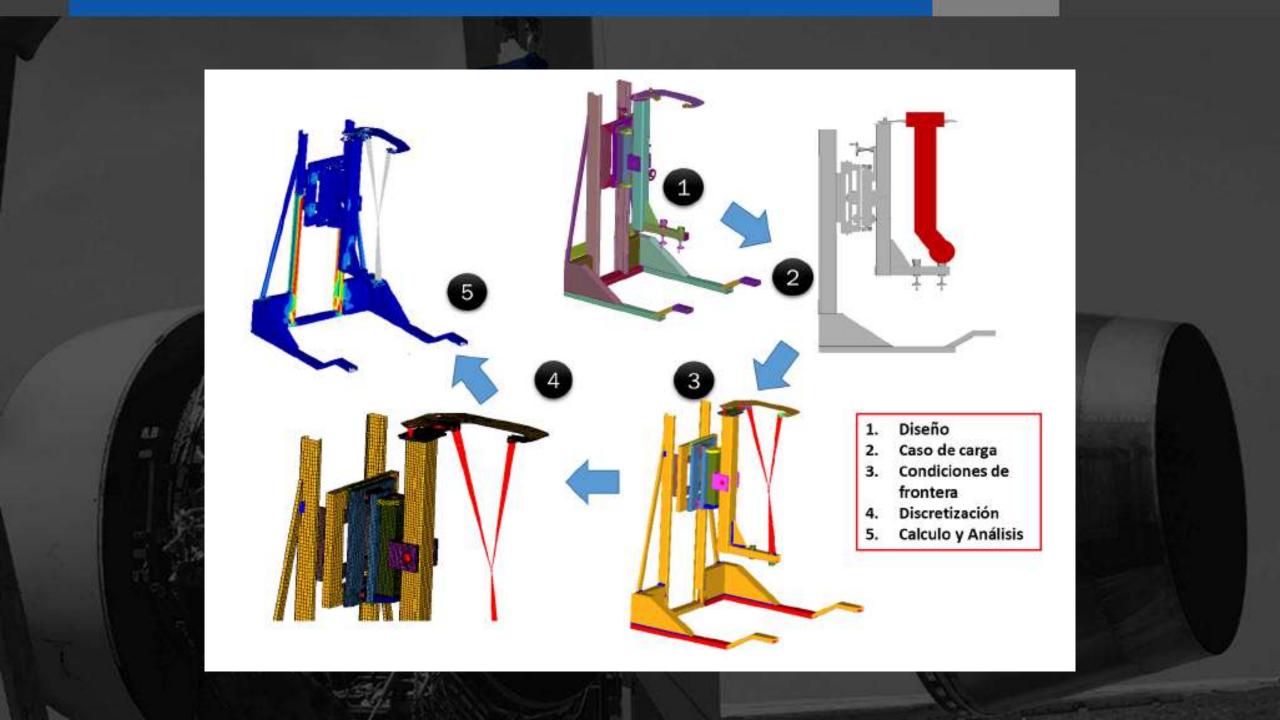
- Sheet Metal Aerospace Design
- Structural Design
- Molding Design.

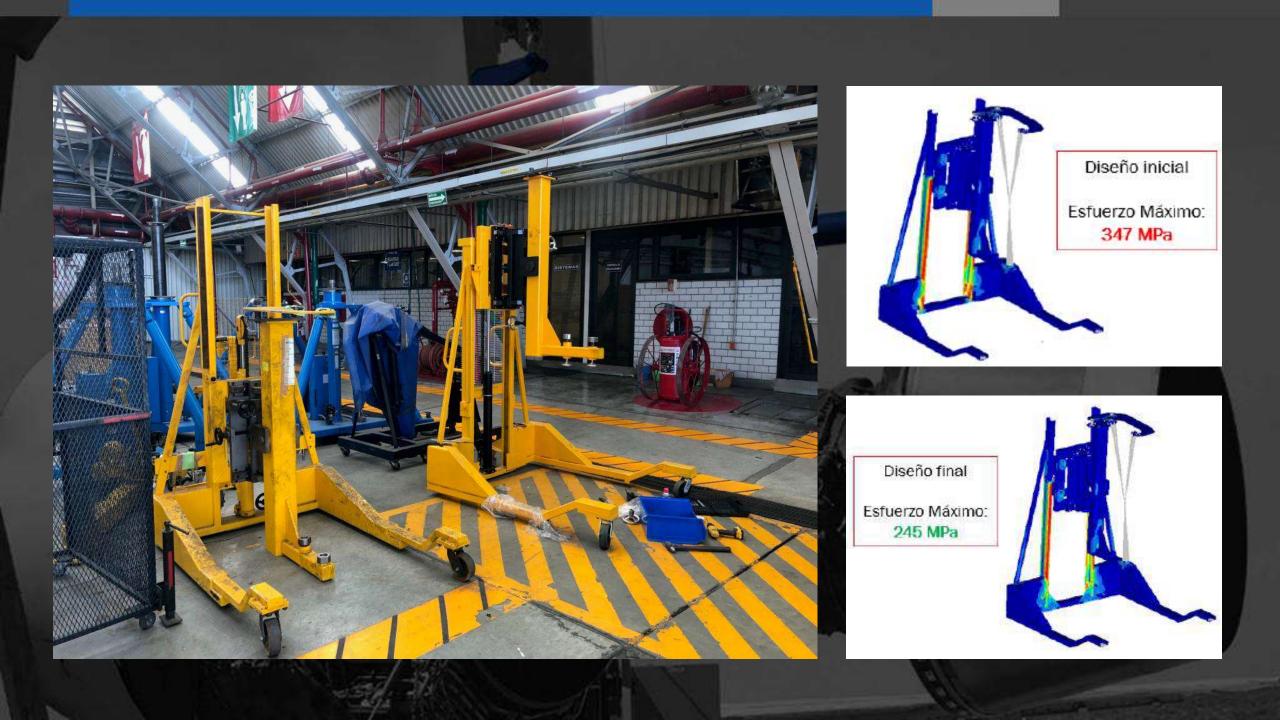
- Composite Design
- Mechanical Design.
- Shape Design.
- Parametric Design.

*Certified personnel in CATIA Assembly design module, Part design module, Surface design module.

**Certified suppliers to the STPS, to provide training on CATIA.







Composite Materials

- Specialized in the design and fabrication of structural molds in carbon fiber and Fiber glass.
- Vacuum Resin Infusion.
- Wet Layup repairs and manufacture.
- Pre-impregnated









Reverse engineering and Quality Control

We make analysis *in-situ* in order to deduce design features from products with changes or from original parts to develop internal procedures for manufacture and assembly.

3D models and dimensional reports are issued if necessary, for engineering development, reports to the client or quality control inspection.





Certified welding

WPS – Welding Procedure Specifications for:

- Low Carbon Steel A36/1018
- AL6061/6082
- 4140
- SS-304

PQR – Procedure Qualification Record for all WPS.

WQTR - Welder Qualification Test Record for all individual welders

Some Clients





BOMBARDIER









* Interjet

TechOps



EMERSON.





MEGGITT



