



Partnering the Global Aerospace Industry since over **45** years

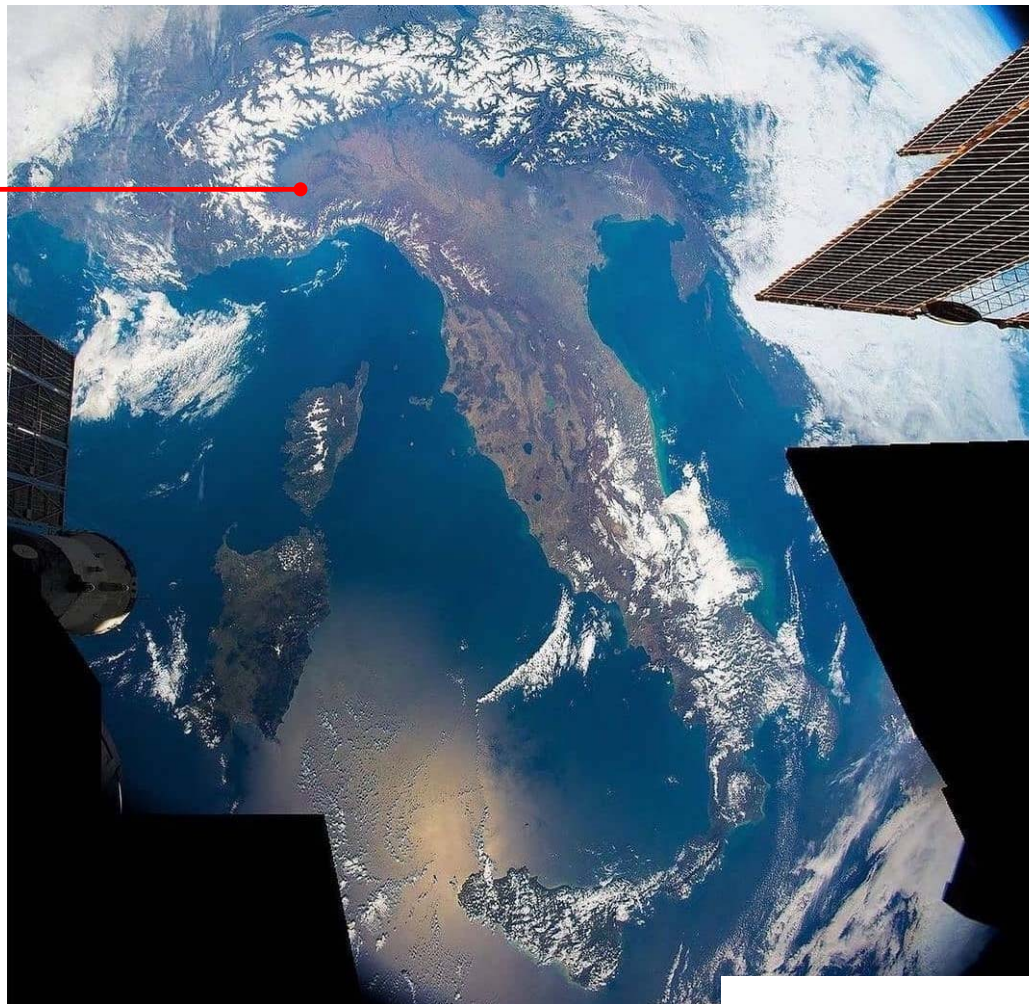


WHERE?



Piemonte - Sommariva del Bosco

ALFA
MECCANICA S.R.L.



COMPANY PROFILE

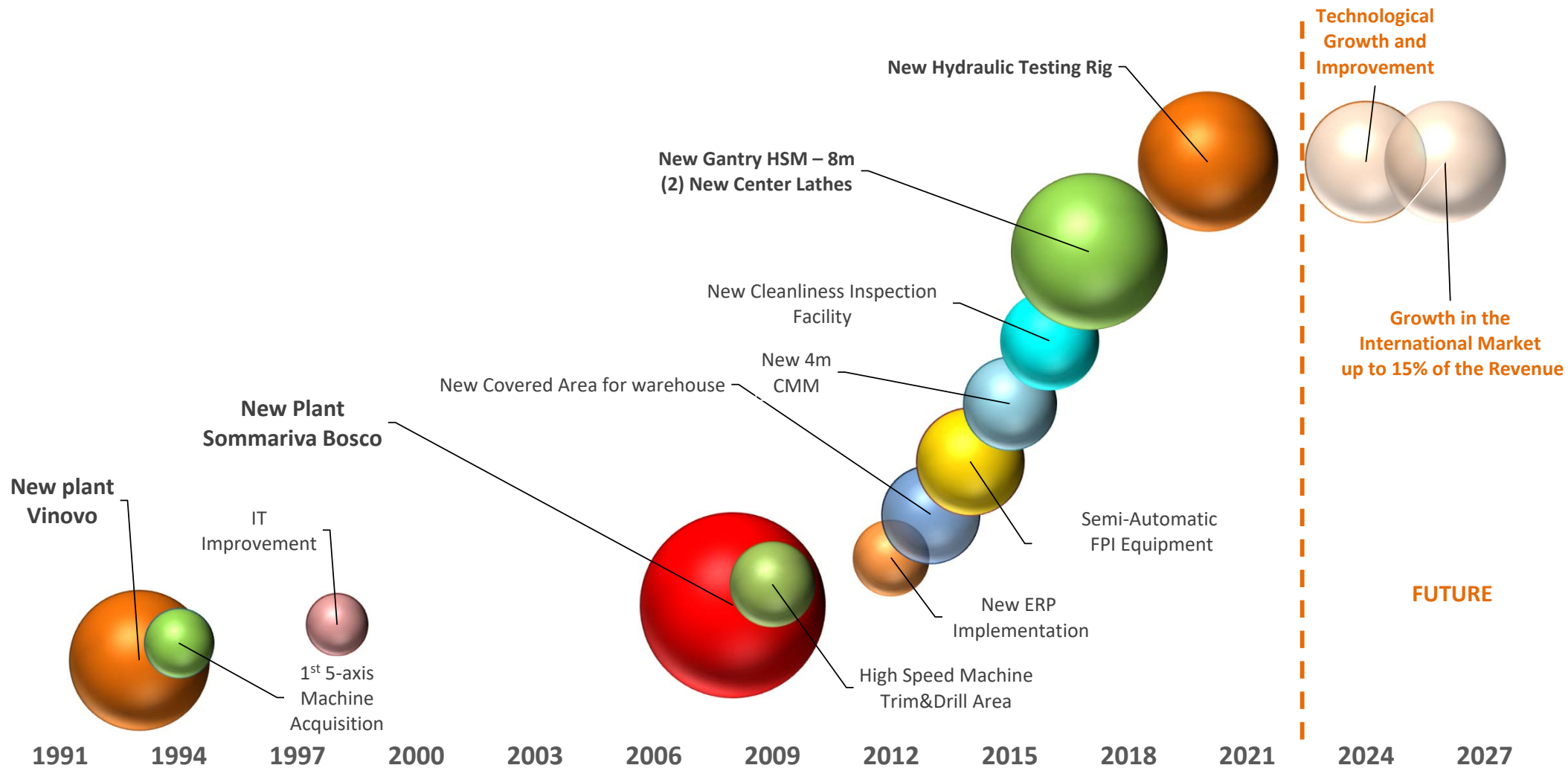
ALFA MECCANICA Ltd is a private Company with over **45 years of heritage in the Aerospace Business.**

Founded by Mr. Pietro Alasia (the actual President) in **1975**, ALFA MECCANICA has been specialized since the beginning in **High Precision Mechanical Machining** for the Aerospace Industry, participating both in Military and in Commercial programs.

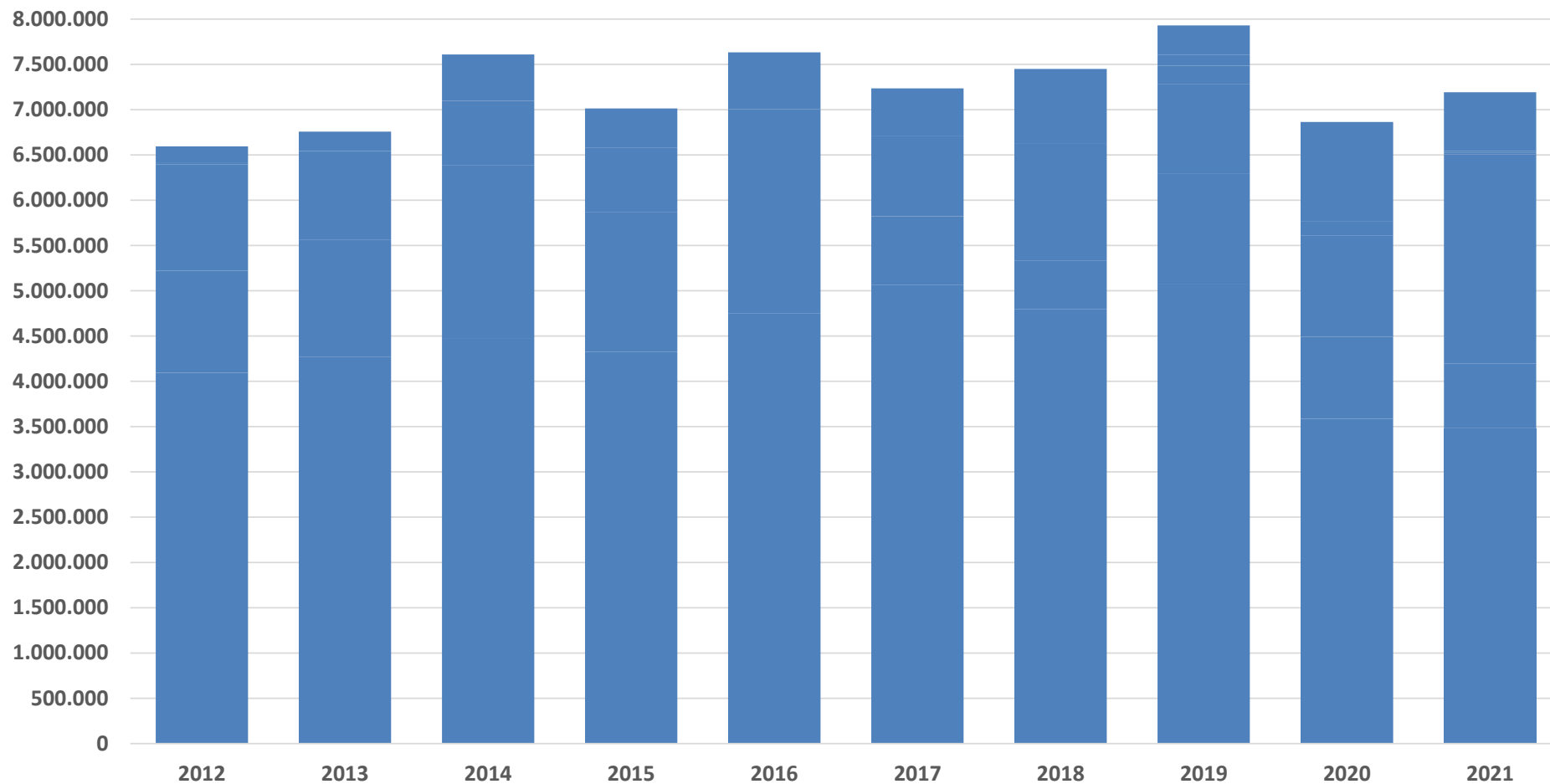
The company has grown during the years, following the growth of **Aerospace Industry.**

Today the second generation of the Family is leading the Company.

The ALFA MECCANICA Team is composed by **50 employees** working in about 5,500 sqm facilities.

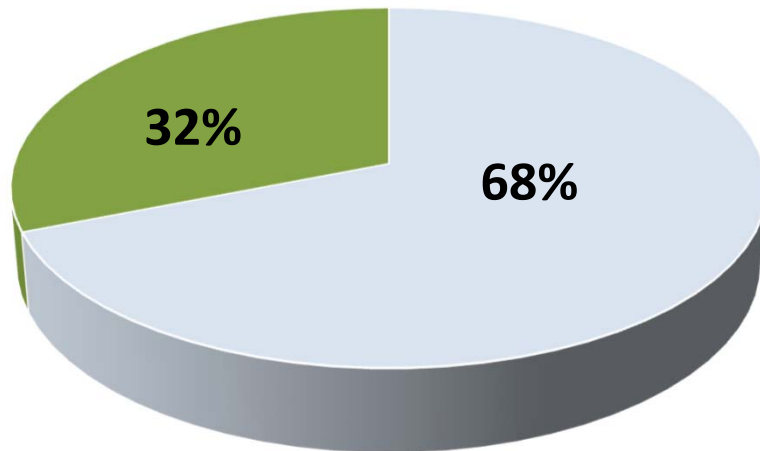


YEARLY REVENUE (EURO)



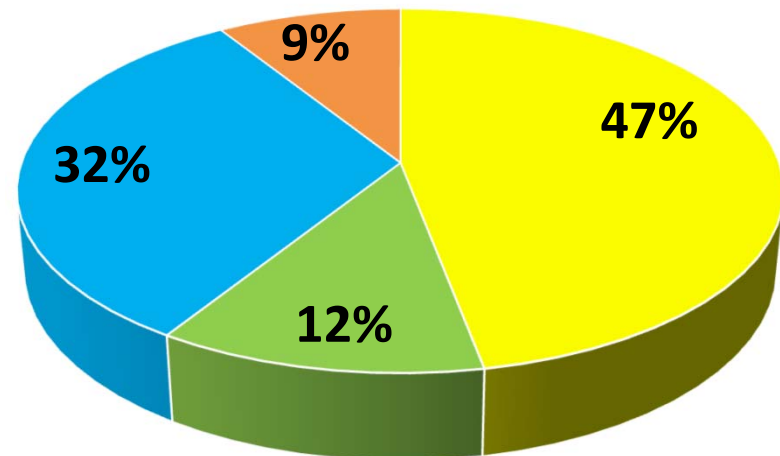
BUSINESS SHARES 2021

Civil Vs Military Business share



■ Civilian ■ Military

Business Areas Share (%)



■ Engine Components ■ Aerostructures
■ Space Applications ■ Fixtures/Others

THE BUSINESS STRATEGY



ALFA MECCANICA – PRODUCTS AND ACTIVITIES



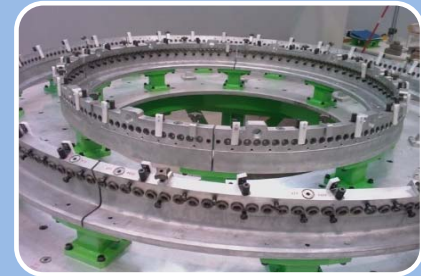
**PROPULSION
AND
ENGINE
SUBASSEMBLIES**



**AEROSTRUCTURES
SUBASSEMBLIES
AND
COMPONENTS**



**STRUCTURES AND
COMPONENTS
FOR SPACE
APPLICATIONS**



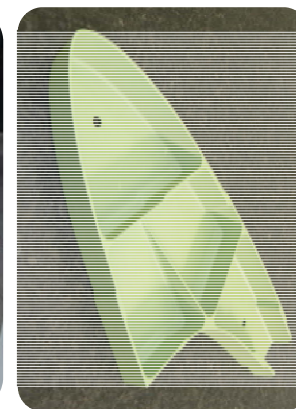
**JIGS & FIXTURES
DESIGN AND
MANUFACTURING**

PRODUCTS GALLERY

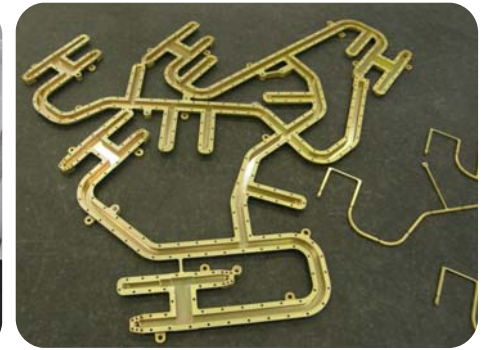
Propulsion and Engine Components



Aerostructures Subassemblies and Subcomponents



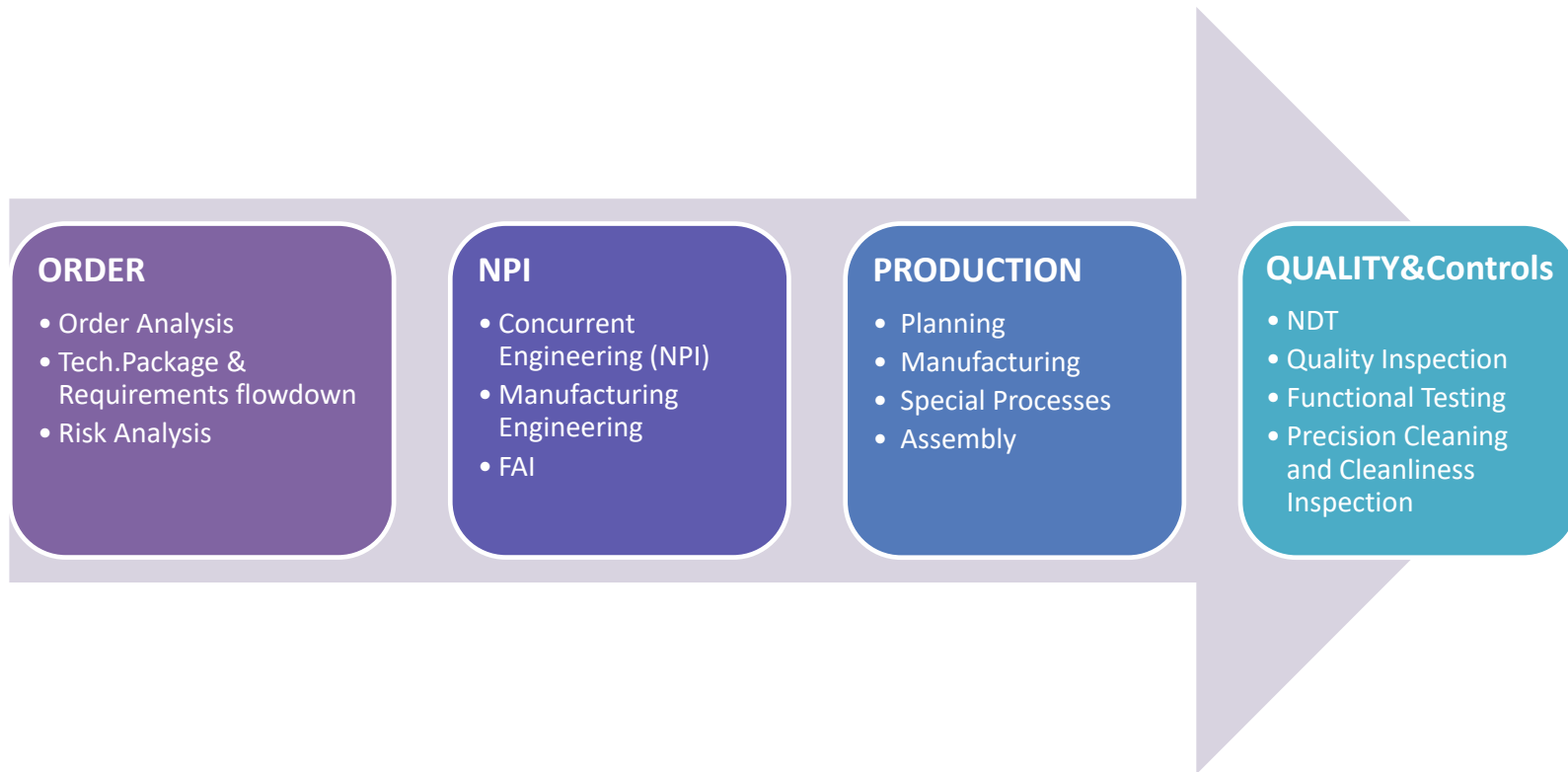
Components for Space Applications



Jigs & Fixtures: Design and Manufacturing (see the dedicated presentation)

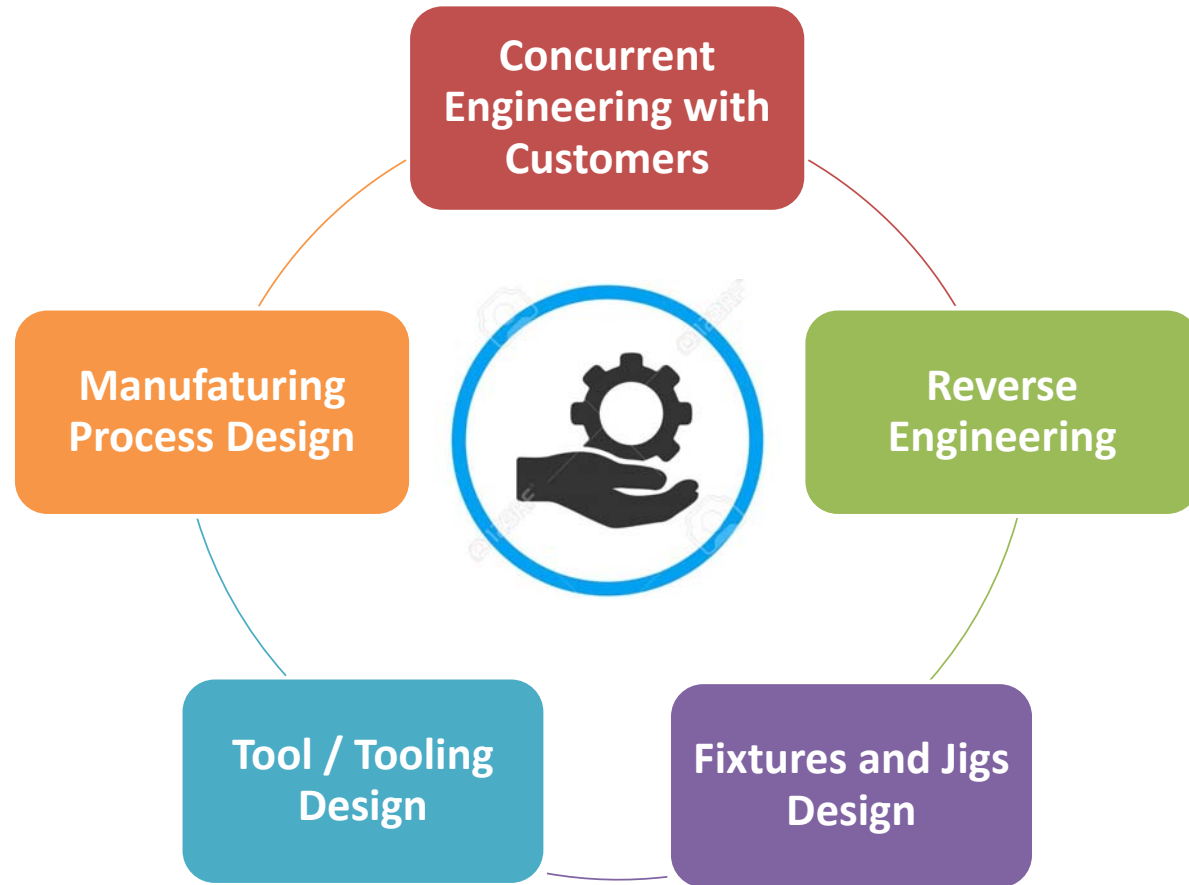


HOW WE MANUFACTURE OUR PRODUCTS?



ALFA MECCANICA takes the responsibility of the **FULL Manufacturing Process**, including **Non Destructive Tests** and several **Special Processes** performed by properly selected, certified and Qualified Suppliers.

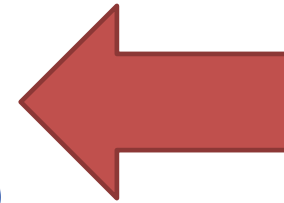
THE ENGINEERING



MANUFACTURING CAPABILITY

ALFA MECCANICA carries out internally the following main processes for the Aerospace Industry:

- **3-4 axis CNC Milling** (up to 4050 x 2500 x 1000mm)
- **5 axis CNC Milling** (up to 4000 x 1200 x 1600mm)
- **Big Size 5 axis HSM Gantry Milling (up to 8000 x 3500 x 1400)**
- **CNC Center Turning and Multi Axis Turning** (D. 660 x 1585mm)
- **Electrical Discharge Machining** (die sinking and wire cutting)
- **Manual GTA Welding**
- **Unit Assembling** stations and functional testing



Mechanical Machining: Technology



Big Size 5 axis: HSM GTF3514/QA 8000



Dimensions	mm
X	8 000
Y	3 500
Z	1 400

Spindle features	
Type	HSK63
Speed	24K rpm
Power	55 kW

Metrological Room



CMM POLI SKY 8: 2000x1200x600 mm



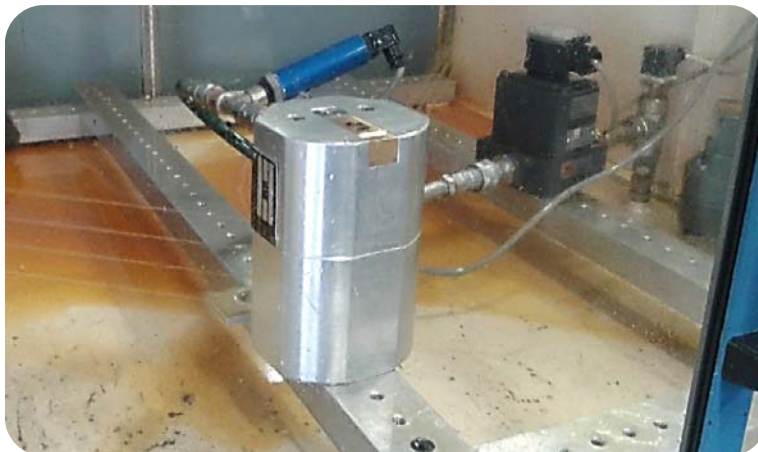
CMM DEA: 4000x2000x1500 mm

F.P.I. Equipment



Semi Automatic System for Fluorescent Penetrating Inspection

Assembly and Functional Testing



Hydraulic Testing



Main features	
Max T	90 (°C)
Max Flow	35 (l/min)
Max pressure	30 (bar)
Oil jet testing	flow, pressure, target



Precision Cleaning and Cleanliness Inspection (per GE P4TF21)



**GE Aviation
Qualified**

International Certifications



**CERTIFICATO N.
CERTIFICATE No.** AS/122/15/S

SI CERTIFICA CHE IL SISTEMA DI GESTIONE PER LA QUALITÀ DI
IT IS HEREBY CERTIFIED THAT THE QUALITY MANAGEMENT SYSTEM OF

ALFA MECCANICA S.R.L.

NELLE SEGUENTI UNITÀ OPERATIVE / IN THE FOLLOWING OPERATIONAL UNITS

VIA G. AGNELLI, 3 12048 SOMMARIVA DEL BOSCO (CN) ITALIA

È CONFORME ALLA NORMA / IS IN COMPLIANCE WITH THE STANDARD

AS9100D / EN 9100:2018

È VALUTATO SECONDO LE PRESCRIZIONI DELLA NORMA EN 9104-001:2013 E DEL REGOLAMENTO TECNICO ACCREDIA RT-18
ASSESSED ACCORDING TO EN 9104-001:2013 STANDARD AND TO THE REQUIREMENTS OF ACCREDIA TECHNICAL REGULATION RT-18

PER I SEGUENTI CAMPI DI ATTIVITÀ / FOR THE FOLLOWING FIELD(S) OF ACTIVITIES

PRODUZIONE DI COMPONENTI E SOTTOASSIEMI MECCANICI
ATTRaverso LAVORAZIONI MECCANICHE DI PRECISIONE.
PROGETTAZIONE E PRODUZIONE DI ATTREZZATURE.

PRODUCTION OF MECHANICAL COMPONENTS AND SUB-ASSEMBLIES
BY PRECISION MECHANICAL MACHINING.
DESIGN AND PRODUCTION OF EQUIPMENTS.

La validità del presente certificato è subordinata a sorveglianza periodica annuale / The validity of this certificate is dependent on an annual / six monthly audit and on a complete review, every three years, of the management system.
L'uso e la validità del presente certificato sono soggetti al rispetto del documento RINA. Regolamento per la Certificazione di Sistemi di Gestione per la Qualità nel settore aerospaziale e settore di schema EN 9100.
The use and validity of this certificate are subject to compliance with the RINA document. Rules for the Certification of Quality Management Systems for the aerospace sector according to EN 9100 scheme.

Prima emissione First issue	16.10.2015	Data scadenza Expiry Date	16.10.2024
Data di revisione Review date	16.10.2021	Data entrata in vigore Issue date	16.10.2021



Andrea Altasio
Certification Compliance &
Technical Support, Director
Andrea Altasio
RINA Services S.p.A.
Via Certifica 12 - 58125 Grosseto Italy



Per informazioni sulla validità
del certificato, visitare il sito
www.rina.org

For information concerning
validity of the certificate, you
can visit the site
www.rina.org

Per i requisiti della norma non
applicabili al campo di applicazione
del sistema di gestione
dell'organizzazione, riferirsi alle
informazioni documentarie emesse.

Reference is to be made to the
relevant documented information
for the requirements of the
standard that cannot be applied to
the Organization's management
system scope.

IAF:17



CISQ è la Federazione Italiana di Organismi di
Certificazione del Sistema di Gestione Aziendale.
CISQ is the Italian Federation of
management system Certification Bodies.

ISO 9001:2015

QUALITY MANAGEMENT
SYSTEMS

EN 9100:2018

AEROSPACE SERIES
QUALITY MANAGEMENT
SYSTEMS - REQUIREMENTS

International Certifications





Rolls-Royce *APPROVALS*

Scope:

- *Precision Machining*
- *Control of classified parts to RRES 90000*
- *Cleaning and descaling*
- *NDT & Inspection Methods*

RR Aerospace UK

Approval N° 122990
Expiry date: unlimited
Vendor n° assigned: 234741

RR Deutschland

Approval N° 122990/1
Expiry date: unlimited
Vendor n° assigned: 234741

MAIN PROGRAMS



ENGINE & TRANSMISSION

- EJ200
- GENX
- GE90
- GE9X
- CATALYST
- CFM Leap
- Ultra Fan
- Trent 900
- SAM146
- PW2037
- PW800
- PW1100
- TP400
- V2500



AIRCRAFT

- Eurofighter Typhoon
- Boeing 767
- C27J Spartan
- Falcon 2000
- F5X
- M346
- A350
- A320
- JSF – F35
- AKOYA



SPACE

- Cygnus
- ATV
- Node 2 & 3
- GALILEO
- Global Star
- Cosmo
- Amazonas
- O3B
- Cupola
- IRIDIUM
- Biomass
- MPCV (Orion)
- Space Rider
- Halo
- Axiom

MAIN CUSTOMERS



CONCLUSION

- ✔ **ALFA MECCANICA** is specialized in **High Precision Machining** and works since 1975 with the most important International Players of the Aerospace Industry, both **Civil and Military Programs**
- ✔ **Experience, Know how, Professionalism, Technology** and first class machinery are the means which lead ALFA MECCANICA to achieve the requests of Aerospace and several other branches of Industries
- ✔ The very slim organization is warranty of **flexibility, quick** reactions and **reliability**
- ✔ The **Engineering Department** is in charge of the Industrialization Process and it's warranty of a **very strict industrialization Lead Time**
- ✔ The **Quality** of ALFA MECCANICA products and services is assured by a Certified Quality System Management according to ISO 9001:2015 and EN 9100:2018 Norms.



Many thanks for your Attention!

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