



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 privately owned Company with **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** mainly 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 ALFA MECCANICA Team is composed by **46 employees** working in about 5,500 sqm facilities.

THE BUSINESS STRATEGY



ALFA MECCANICA – PRODUCTS AND ACTIVITIES



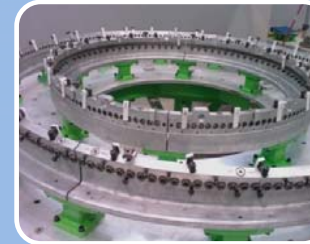
**ENGINE
SUBASSEMBLIES**



**AEROSTRUCTURES
SUBASSEMBLIES**



**SPACE
STRUCTURES**



**JIGS&FIXTURES
DESIGN & MANUF.**



C A P A B I L I T Y



ENGINEERING

Concurrent Engineering (NPI)
Reverse engineering
Design of Jigs and Fixtures
Manufacturing process design
CNC programming & manufacturing Tools design



MANUFACTURING

Multi Axis Center Turning (D660 x 1585 mm)
5 Axis High Speed Milling (up to 8,0 x 3,5 x 1,5 m)
EDM: electro discharge machining



ASSEMBLY AND FUNCTIONAL TESTING

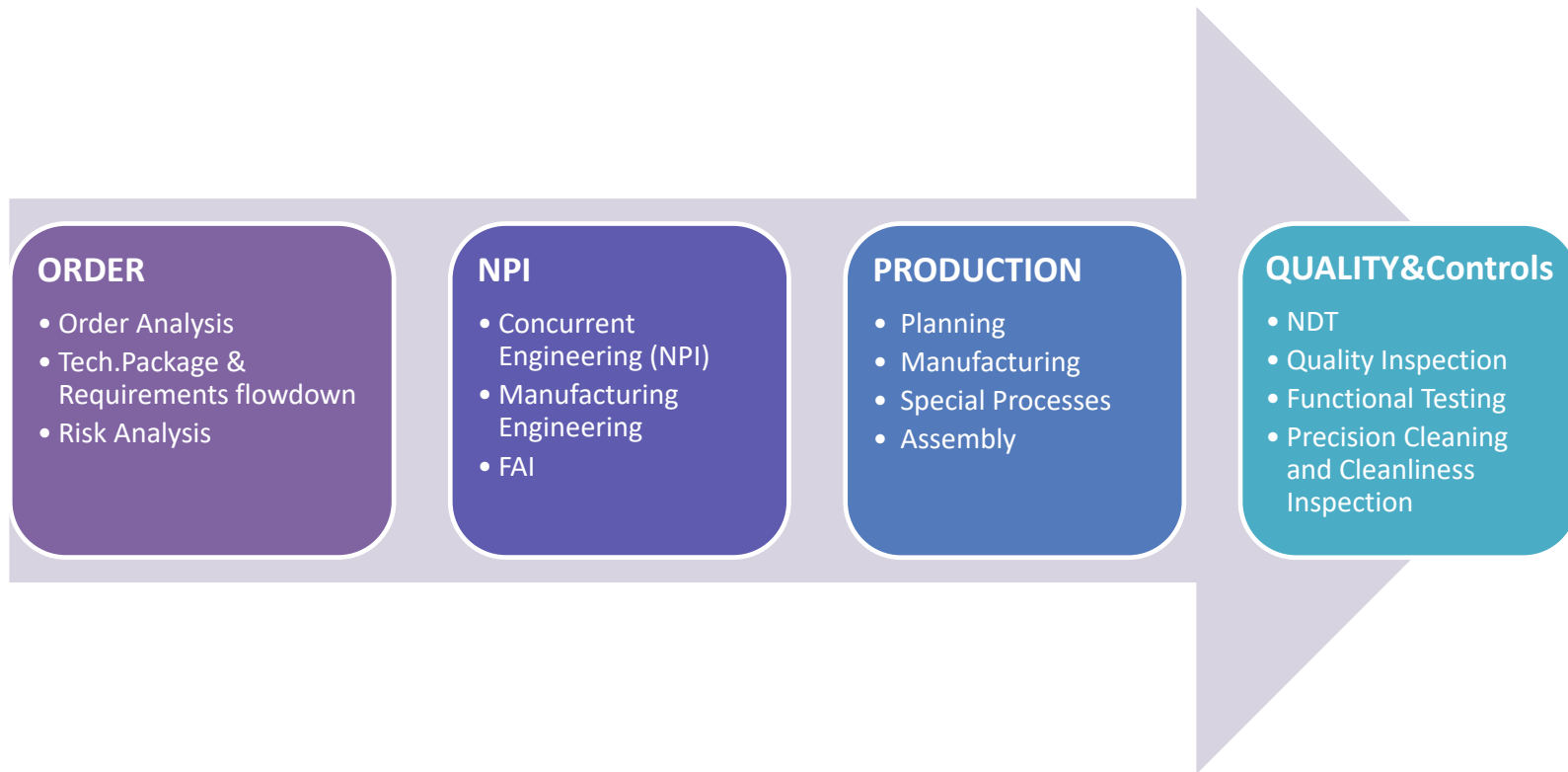
Complex assemblies
Bearings and bushings assembly & sealing
Hydraulic Testing: flow, pressure, target, leakage



SPECIAL PROCESSES

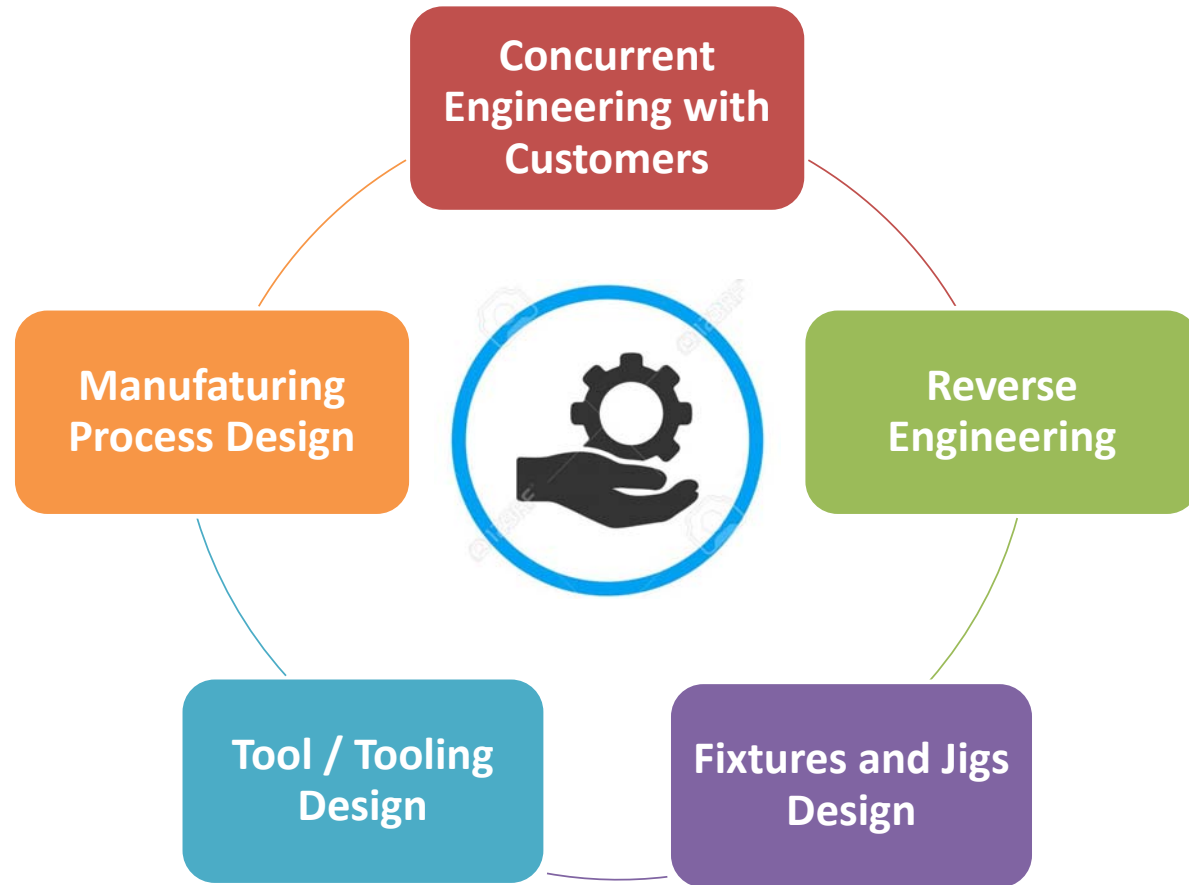
Fluorescent Penetrant Inspection (NADCAP Approved)
Precision Cleaning
Cleanliness Inspection (GE Aviation approved)

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)
- **NEW 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



Started up
May 2018

Metrological Room



CMM POLI SKY 8: 2000x1200x600 mm



CMM DEA: 4000x2000x1500 mm

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**

Certifications




CERTIFICATO N. 32836/15/S
CERTIFICATE No.

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.
 VIA COSSOLO, 9 10029 VILLASTELLONE (TO) ITALIA

NELLE SEGUENTI UNITÀ OPERATIVE / IN THE FOLLOWING OPERATIONAL UNITS

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

E CONFORME ALLA NORMA / IS IN COMPLIANCE WITH THE STANDARD
ISO 9001:2015

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

PRODUZIONE DI COMPONENTI E SOTTOASSEMBLI 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 al raggiungimento periodico di requisiti di conformità con il sistema di gestione per la qualità e al mantenimento del sistema di gestione per la qualità.

Prima emissione First issue	19.10.2015	Data decisione di rinnovo Renewal decision date	11.09.2018
Data scadenza Expiry date	19.10.2021	Data revisione Revision date	11.09.2018

David Totti
 Turin Management System
 Certification Head

SGQ N° 002 A
 RINA Services S.p.A.
 Via Corsica 12 - 10128 Genova Italy



www.rina.com




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

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 IT IS HEREBY CERTIFIED THAT THE QUALITY MANAGEMENT SYSTEM OF

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E CONFORME ALLA NORMA / IS IN COMPLIANCE WITH THE STANDARD
AS9100D / EN 9100:2018

E' VALUTATO SECONDO LE PRESCRIZIONI DELLA NORMA EN 9100:2018 E DEL REGOLAMENTO TECNICO ACCREDITA N° 18
 ASSESSMENT ACCORDING TO EN 9100:2018 STANDARD AND TO THE REQUIREMENTS OF ACCREDITATION TECHNICAL REGULATION N° 18

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ISO 9001:2015

**QUALITY MANAGEMENT
SYSTEMS**

EN 9100:2018

**AEROSPACE SERIES
QUALITY MANAGEMENT
SYSTEMS - REQUIREMENTS**

MAIN CUSTOMERS



Pratt & Whitney Rzeszów



Rolls-Royce



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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