



ATLA Overview

- A Centre of Excellence for MRO&U in Italy for engine components, focused on Defense programs, vertically integrated, acting as one-stop-shop.
- Covering the full repair cycle on blades and vanes with unmatched capabilities and capacity to support Production and Sustainment:
 - Coating and re-coating
 - Heat Treatments
 - Special Processes
 - Additive Manufacturing
- Know-how intensive technologies: TBC, HFIC and other anti-erosion processes.
- More than 44 years extensive MRO&U experience and over 700.000 treated parts with strong heritage on legacy aircraft engines and NPI/NTI projects.
- Certified for the major ISO Standards and for Aerospace requirements EN 9100 and EN 9110 and Nadcap accredited for Special Processes and Metallographic Laboratory: Welding, Nonconventional Machining, Coatings, Heat Treating, Nondestructive Testing.
- For Defense activities we have a license Ex Art. 28 T.U.L.P.S. and we comply with the US ITAR and EAR with Export Compliance Administration Program (ECAP) Certification.



+45

Years of experience



+15.000

Total space (sq.m.)



+90

Total employees



+6

ISO-ECAP Standards



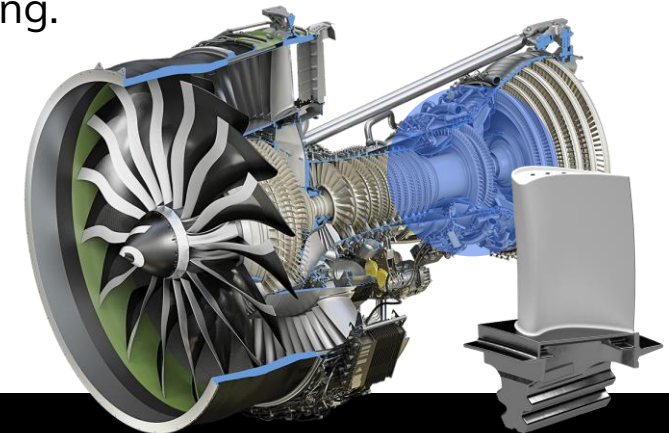
+2

Aerospace Standards



+5

Nadcap Accreditations



Emerging Technologies

- Joint R&D projects with Torino Polytechnic University:
 - Alternative coatings for cost and TAT reduction, improved performance and highest quality with SPS and PVD Arc systems to obtain a better thermo-mechanical property.
 - Integration of both Laser Metal Deposition and Powder Bed Fusion into our processes: rebuild of blade's TIP and profile, 3D printing of cooling insert and coupons to recover damaged area and fast tooling.
 - Digital Twin approach to predict the impact of our processes on the performances, saving time, costs and preventing errors.

Conventional capabilities

Production	N°
Atmospheric Plasma Spray (APS)	6
High Velocity Oxy Fuel (HVOF)	6
Vacuum Plasma Spray (VPS)	1
Suspension Plasma Spray (SPS) - Columnar TBC	1
Physical Vapor Deposition (PVD Arc) - MCrAlY coating	1
Aluminizing	3
Laser drilling and cutting 3 and 5 axis	4
Laser cladding and welding 5 axis	2
TIG welding	8
EDM die-sink, wire and drilling	6
EDM rotating electrode 5 axis drilling	6
Grinding, grit blast and automated blast system	6
Vacuum heat treatment furnaces	7
Vacuum brazing furnaces	6
Hydrogen Fluoride Ion Cleaning (HFIC)	2
Chemical stripping	1
Chemical cleaning	1
Metal and plastic 3D printings	2
Machining 4 and 5 axis equipments	(QV)
Shot peening 3 axis	(QV)
Metal forming	(QV)

NDT-DT

Metallographic and chemical laboratories

Ultrasonic

Fluorescent Penetrant Inspection

Eddy-current

Flow calibration

Frequency

Momentum weight and sequency

Borescope

Dimensional check jigs

SEM

Optical microscope and image analysis

Spectroscopy, elemental & isotope analysis

Scan arm HD

CMM (QV)

Creep test

Hardness & micro hardness

Tensile

Coating adhesion

Control of HT (AMS2750 - Pyrometry)

Oxidation (QV)

X-Ray (QV)

Magnetic particles (QV)

Tomography (QV)

Industrial Ecosystem

- **Networking with OEMs:** PW, GE Avio, Rolls Royce, Safran, MTU and **Independent MROs:** StandardAero, Lufthansa Technik, SR Technics.
- **Exclusive partnership with Oerlikon** for Italy on Coating joint developments.
- **Member of E-TDCs, the GE Aviation** network for innovative coatings (AM, advanced materials clusters).
- **Partner of the NEUMANN Project** to bridge the launch of the 6th generation air combat (Tempest Program).
- **Affiliate Member of the International Aerospace Quality Group (IAQG).**

Best Value Proposition

- **+10 M€ total investment in new capabilities, innovative technologies and competitive improvements by 2023.**
- **+10% investments in R&D projects in the last year and more than 4.500 hours in training of our employees.**
- **Main distinctive assets:**
 - Full cycle maintenance on high-tech engine/turbo gas components
 - No technical gaps
 - Zero defects
 - Cost reduction
 - TAT improvements
 - Lean logistics
 - Industry 4.0 solutions
- Integrating **qualified suppliers** in one **full capability supply chain** managed by **ATLA.**

Your POC



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