

UNITED WE STAND



Fully integrated solutions for Aero-Engine
components and sub-assemblies.
From Design to full rate Production.
All in one Group.

**UNITED
WE STAND**

WE ARE IN TURIN, ITALY
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OUR CAPABILITIES

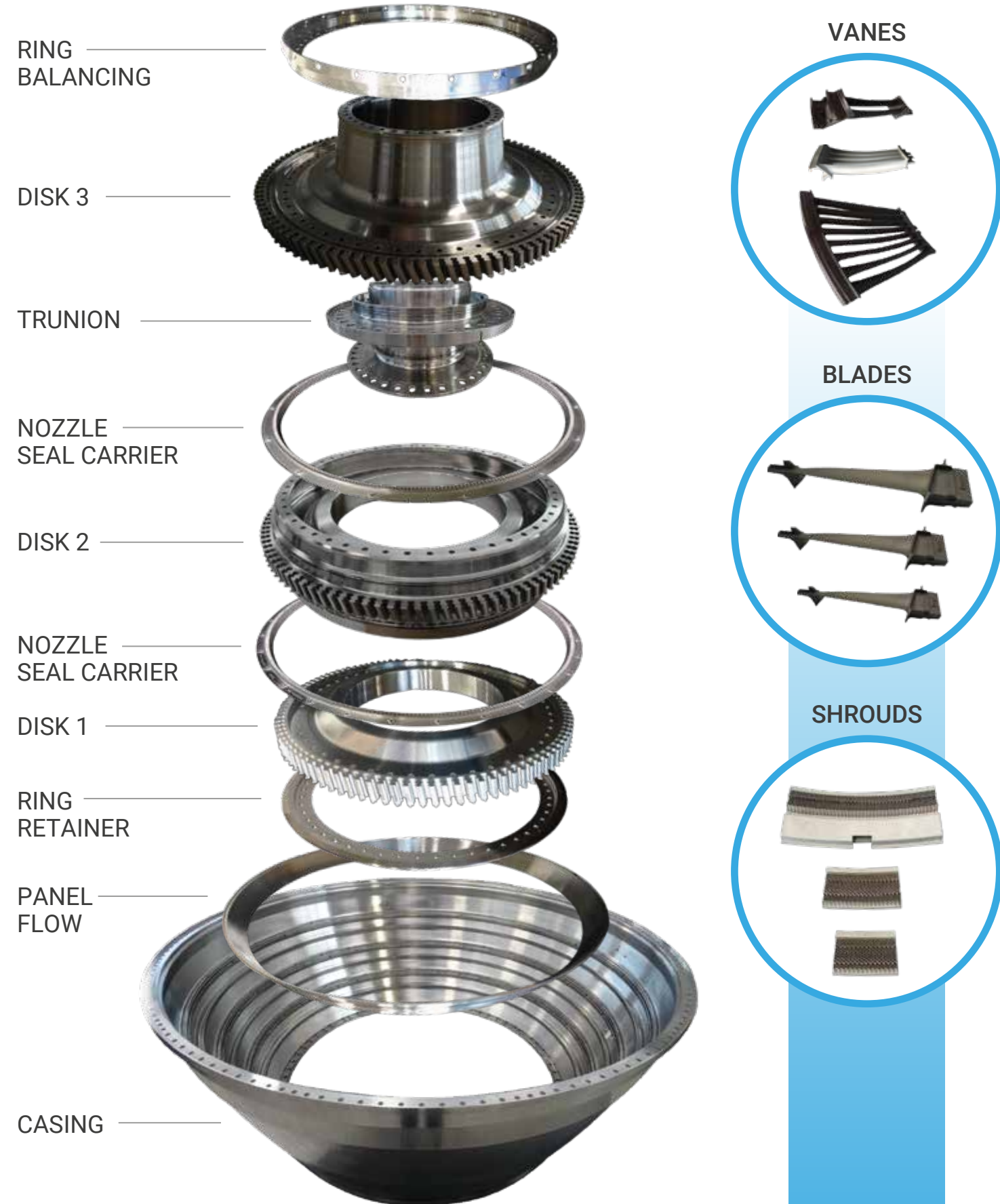
- **Innovative design:**
 - Design for Additive Manufacturing
 - Multi-Disciplinary Optimization
- **Concurrent Product Development**
- **Industrialization**
 - Assembly in clean room class 100K - ISO 8
 - Certification of Process
 - Certification of Conformity (CoC)
 - Engineering Design (modelling SW)
 - Preliminary Design Review (PRD)
 - Critical Design Review (CDR)
 - Kit preparation
 - State of Work (SoW)
 - Book Log
- **Wide range of manufacturing process:**
 - NADCAP Near-Net-Shape Hot/Warm Forging and Rolling (production process designed around the desired material fiber disposition)
 - Full Machining capabilities
 - NADCAP massive Heat-Treatment process (low and high-alloy steels, nickel alloys)
 - Sheet Metal Cutting and Fabrication
 - Forming
 - Manual Surface Finishing
 - Welding and Brazing
 - Composites Manufacturing
- **Non-Destructive Inspection and Testing**
 - 3 Ct scan from 300 to 450 kv for components until 0.5 mt diameter to 1.0 high in a metrology room EN 9100 certified
- **Special Process**
- **Kitting**
- **Assembly**
- **Technical Painting**
- **Testing and Qualification**

OUR PRODUCTS

- **Turbine components and sub-assy:**
 - Blades, Vanes, Casing, Rings
 - Brackets, Links, Mounts
 - Composite Fans and Structures
 - Strainer Assemblies, Pressure Tubes, Mixer Ring Assemblies, De-Oiler Assemblies, Baffles, Heat Shields
- **Rotating parts:**
 - Centrifugal Impellers, Integrally bladed Rotor Parts, Disks/Rotors
- **Gearboxes components and sub-assy:**
 - Housing, High-precision Gears, Spur Gears, Double Helical (with ground profile), Ring Gears
 - Worm Shafts and Worm Gears, Couplings and Frontal Inserts
 - Gleason Straight, Spiral, and Zerol Bevel Gears
 - Splined Shafts (Internal - External), Freewheels, Cams
 - Multiplier and Transmission Units, Milled Racks, Ground Racks
 - Toothed Sectors, Frontal and Involute Tothing, Tothing with Swell and Profile Correction
- **Bearing components**
- **Manifolds**
- **Pumps**
- **Shrouds (machining, fabrication and brazing)**
- **Sheet metal components**
- **Broaches**
- **Electrical parts, electrical harnesses and electrical systems integration**
- **Special Gauges**
- **Heat Protection Systems**
- **Instruments and services for quality check laboratories and R&D departments**

GREENING THE PROPULSION

AENCOM delivered one of the Low Pressure Turbine demonstrators for CleanSky



HOW THE TEAM WORKS

The basis of the work is a turn-key approach with a clear governance: a **Cluster Network Agreement** signed by all partners within the project **Torino Piemonte Aerospace - Italy**. The Cluster Leader, in accord with the Customer, assigns a Main Contractor to each project and distributes tasks to the partners involved, performing Project Management, Capability and Capacity Assessments, Risk Management, Planning and LOBs up to the FAI and delivery to the Customer. By applying a detailed Capability Matrix, AENCOM gives Customers full visibility on the execution of each task.



EASY

LEAN

SMART

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