

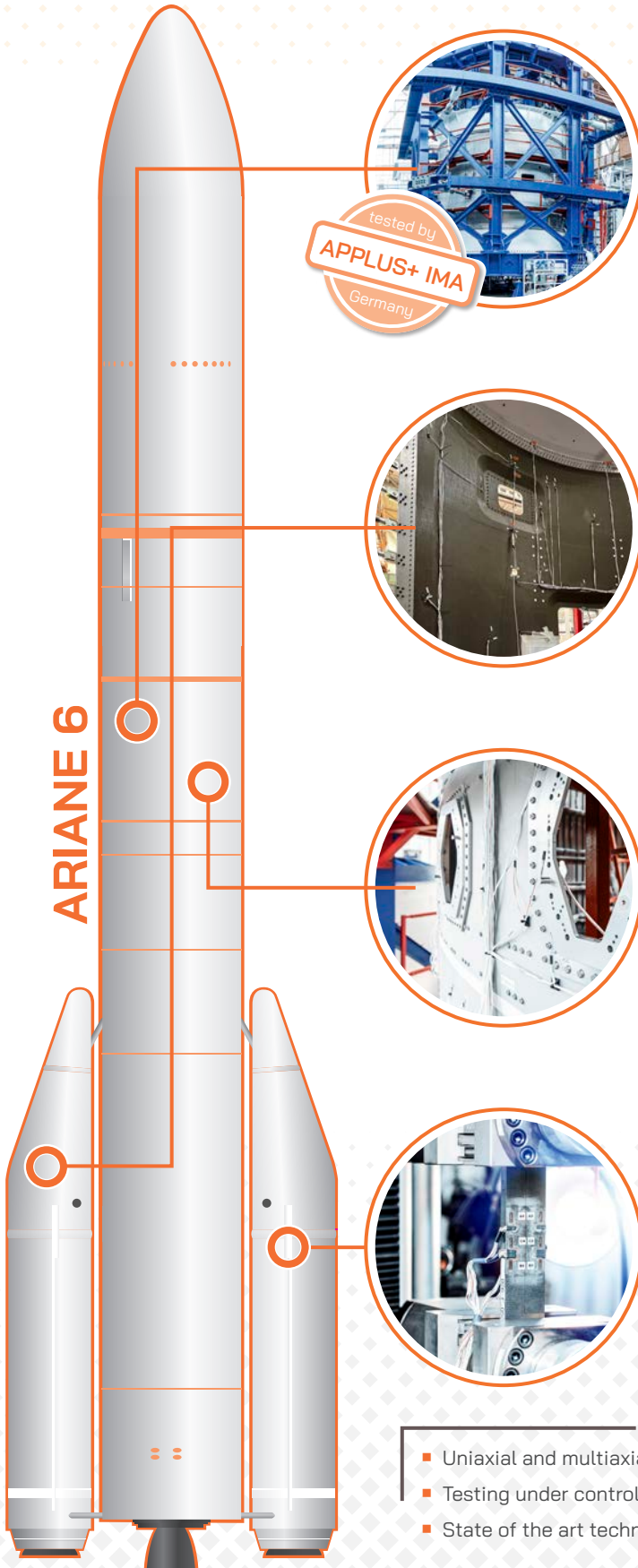


SPACE

Your Testing Partner for
Research & Development
and certification programmes



Testing from Material to Full-Scale



LEVEL 4: FULL-SCALE



- Structure testing: Testing of the external force effect on strength and stiffness under realistic loads until failure. (Interstages, Thrust Frames, Interstage Structures)
- Testing with media: Tank tests - test bench with refueling and pressure generation procedures, test specimen loading until bursting.

LEVEL 3: BREAD BOARDS



- Interface between lower level tests (coupons/lap joints) and full-scale test specimens with a focus on sub-areas such as rivets, stringer runout or window cutouts.
- Damage analysis

LEVEL 2: JOINTS



- Connection from one component to the next (weld, rivet, adhesive)
- Comparison of material use and design principles, verification of calculation methods

LEVEL 1: MATERIALS



- Material characterisation testing on metallic, composites, silicones, bonded assemblies, coatings
- Samples manufacturing and cutting of specimens

- Uniaxial and multiaxial high loads specialist, static and fatigue tests (up to 15 MN)
- Testing under controlled conditions, from cryogenic to high temperatures
- State of the art technology for data acquisition and test monitoring

Environmental Testing



- Multi-technological testing capabilities: EMI/EMC, Radio, Fire, Climatic and Vibration testing following with RTCA DO-160, temperature and humidity cycling, Solar exposition (QUV, Xenon)
- Fire testing - global offer to material certification: Flammability, Smoke density & Toxicity, Heat release, Kerosene burner
- Specific equipment for HV systems and battery testing (RTCA DO-311)



EMC



HV/LV



Climatic & accelerated aging



Vibrations, harshness, shock



Fire

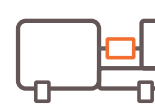
Engineering Solution



- Multi-technological know-how (mechanical, electrical, hydraulic, NDT, robotics, software)
- Turnkey structural test rigs and test benches
- Automated NDT solutions: Robotic systems, Gantry systems and Immersion tanks
- Tailormade chemical products formulation
- Repackaging of products : from large to small volumes (adhesives, coatings, solvents, resins, liquids and powders...)



Test Rigs



Test Benches



Automated NDT

Simulation and Digital Solutions



- Virtual testing, Simulation and strength assessment
- Digital Solutions for Advanced Development, to take testing and materials data management to the next level



Virtual testing



Engineering



Digital Solutions



Strength assessment

Cybersecurity Evaluations



- Pentest and vulnerability assessment experts for hardware, software and communication cyber attacks, with special expertise in cryptographic valuations



Hardware



Software



Communications



Cryptography

ABOUT US

As a recognised and accredited partner - our network of laboratories counts on ISO 17025, Nadcap and EN/ES 9100 accreditations and world leader company qualifications.

We offer structural and materials testing - large and versatile facilities to test from materials to full-scale, also equipped with unique capabilities for uniaxial and multiaxial high-load tests.

We ensure that components can be tested following RTCA DO thanks to our environmental capabilities – EMI/EMC, batteries, vibration, climatic and fire testing.

In cybersecurity, we are referents in high-assurance evaluations.

Our testing experience and multi-technological capabilities allow us to design, develop and implement complex turnkey solutions for Structural Test Rigs, Test Systems and NDT automated equipment.

FULLY ACCREDITED & CERTIFIED LABS

Accredited acc. to ISO/IEC 17025

Certified acc. to AS/EN 9100

Qualified by Airbus

 **Nadcap**
Administered by PRI

- Materials Testing Laboratory
- Non Metallic Materials Testing
- Non-Destructive Testing

 **OC-CN**

- Accredited Cybersecurity Labs

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