

High Performance Structures, Gestão e Engenharia Lda. Multilayer Insulation, Mechanical Ground Support Equipment, Composite & Lightweight Structures, Deployable Masts, Ablators for Space Application

HPS Lda. Porto, Portugal has a crew of very experienced engineers and technicians developing and producing high-end mechanical and thermal hardware for space applications. Those capacities have been built up on the basis of the extraordinary high standards of university education for engineers and on the space technology development programs from the Portuguese government. In addition, HPS Lda. shareholders invested heavily in technology, facilities and in training of the quickly growing number of staff for the benefit of high quality and cost effective manufacturing and assembly of multilayer insulation (MLI), composite parts and mechanical ground support equipment (MGSE) on highly sensible space instrument level up to satellite level. For that, HPS Portugal owns and operates respective state of the art cleanrooms, labs and facilities. In Portugal, HPS also counts on a network of partner enterprises to realize cost efficient manufacturing and surface treatment jobs in the outskirts of Porto.

Meanwhile **HPS Lda. flight hardware** is onboard more than 10 missions such as:

- AlphaSat (Instrument MLI)
- ExoMars 2016 (Entry & Descent Module MLI)
- EnMAP (Optical Baffle Assembly)
- MTG (Instrument MLI)
- Sentinel 4 (Instrument MLI)
- EUCLID (Sunshield MLI, Composite Struts, MGSE, Second. Structures, Assembly Services)
- JUICE (Boom MLI).

HPS Lda. Competences:

- Flight Hardware Development
- Technology Development
- Mechanical Design and Analysis
- Manufacturing, Assembly & Integration
- Test Engineering and Control
- Project Management & Quality Assurance.



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Main Product Portfolio

Multilayer Insulation (MLI)



- Scientific Instrument MLI
- High Temperature MLI
- Optical Camera Equipment MLI
- Satellite MLI
- Mechanisms MLI
- Ground Test & Thermal Dummy MLI.

Composite & Lightweight Structures



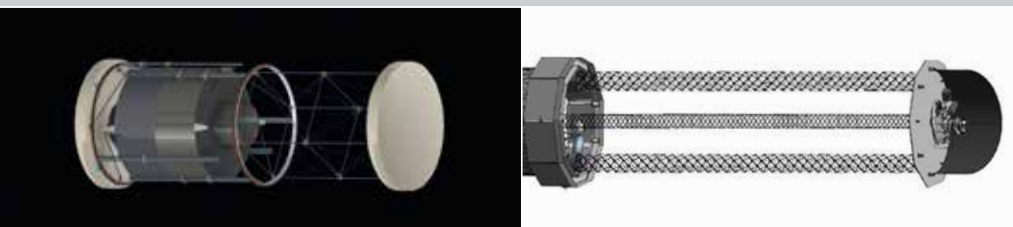
- Instrument Structures
- Secondary Structures and Parts
- Composite Struts
- Nanotube Reinforced Composites
- Photonically Wired Panels.

Mechanical Ground Support Equipment (MGSE)



- Vertical Integration Stand
- Support Structures
- Lifting & Hoisting Devices
- Alignment Trolleys
- Multi Purpose Adapters
- Transport Containers.

Deployable Structures



- Deployable Mast for Instruments
- Deployable Structures Components
- Mesh and Supporting Network
Assembly for Deployable Reflectors
- Deployment Simulation & Testing.

Ablators



- Ablators for Re-entry Missions
- Ablators for Harsh Environments
- Machining of Ablators
- Sensor Implementation
- Ablator Integration Support.