

High Performance Structures Inovatie si Dezvoltare S.R.L.

Ground Support Equipment & Metal Structures, Antenna Components and Thermal Hardware Components for Space Applications

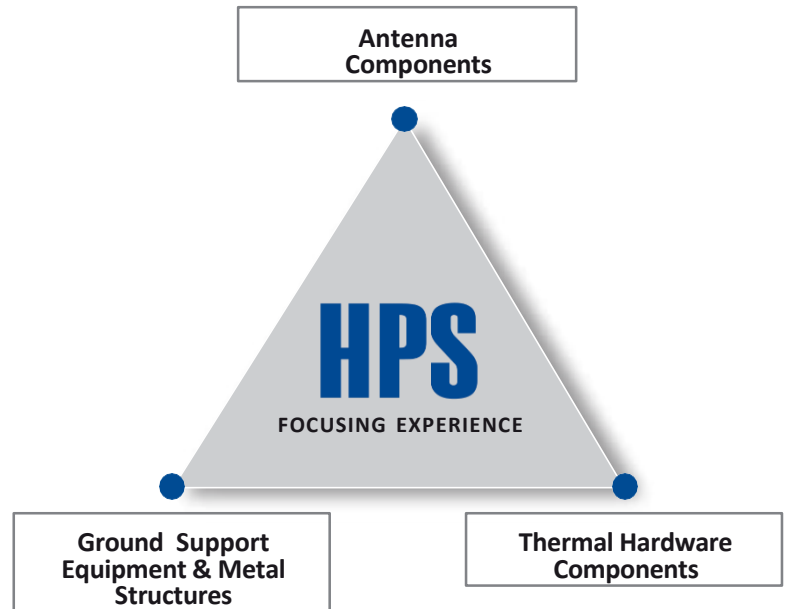
In 2016, HPS Romania has been founded to join the space technology specialists of the European HPS Group. HPS S.R.L. complements the group's portfolio and capacities with its focus on the development and delivery of innovative, lightweight, high performance metal (aluminum, titanium, steel, etc.) parts, equipment and assemblies such as **Secondary Structures, Mechanical Ground Support Equipment (MGSE) Items, Engineering & Integration Services**. Besides, after many Technology Development Projects, HPS Romania gathered the necessary experience in order to deliver **Antenna Components** and **Thermal Hardware Components**.

All processes for development, documentation and quality assurance have been adopted from the site in Germany.

Project management, system engineering, mechanical design and structural analysis is performed by our employees working in the company's office in the center of Bucharest. Manufacturing of parts and testing is coordinated by HPS Romania with local partner companies and institutes. Assembly is performed at HPS Romania as well, in its own large scale integration halls.

From our **contracts**, there are to mention the following:

- MGSE Items for **METImage** - Camera in contract to AIRBUS Friedrichshafen (METOP-SG mission), with design, analysis, manufacturing, assembly and proof testing.
- Vertical Integration Stand (VIS) GSE for **BIOMASS** Satellite, contract with AIRBUS UK
- Purging GSE for **JUICE**, contract with AIRBUS Friedrichshafen/AIRBUS Toulouse
- Radiator parts manufacturing and bonding activities for **SENTINEL 4**, in contract to OHB (METEOSAT TG mission).



Competences HPS Romania	
Technology Development	Products for Space Missions

- Antenna reflector design and analysis (national co-funded R&D program).
- Thermal Hardware for Optical Bench Assemblies & Occulter Disk Test for **PROBA 3** Mission, Flight Hardware (ESA-mission lead by SENER Spain)
- Engineering support (CAD & Structural Analysis) & MGSE (ESA project, preparation for Copernicus, LEOB – Large Deployable Reflectors for **Copernicus** (development) – prime: HPS-DE)
- Carrying Network for Metal Meshes of Deployable Reflectors (in contract to ESA)
- Compact RF Components for Space Applications
- UHF Deployable Antenna for **Nanosatellites**

We can deliver hardware for:



Scientific Satellites



Telecommunication Satellites



Launchers



Re-entry Vehicles



Planetary Missions



Ground Stations

Site Contacts



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Main Product Portfolio

Metal Parts & Structures Design & Manufacturing



- Mechanical Design, Structural Analysis
- Parts Manufacturing and Surface Treatment (with partner companies)
- Manufacturing Control, Inspection, Cleaning, Documentation.

Mechanical Ground Support Equipment (MGSE)



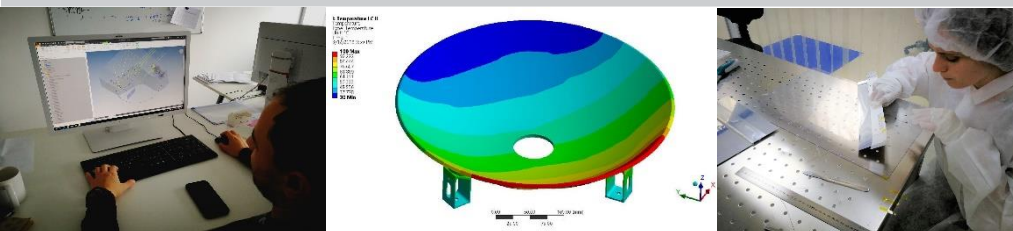
- Integration Stands
- Lifting & Hoisting Devices
- Support Structures
- Alignment Trollies
- Turning Devices
- Multi Purpose Adapters
- Transport Containers.

Thermal Hardware Components



- Thermal Washers
- Kinematic Mounts
- OSR Bonding for Radiators
- Heat Pipe Bonding

Engineering & Integration Services



- Mechanical Design
- Structural Analysis
- Thermo-elastic Analysis
- Vibration Test Prediction
- Structure Assembly Services
- Integration Support.

Facilities



- Office building (left picture, HPS located on the 7th floor)
- Assembly and integration halls (HPS right entrance) with 350 m² area in total (right)
- ISO8 Cleanroom with 16 m² area (middle)