

HPS Group - your supplier for Antennas, Deorbit Sails, Structures and Thermal H/W

In the **industrial space world**, the HPS Group - headed in Munich, with a daughter company in Bucharest (Romania), and a joint venture in Münchberg (Germany) - keeps its own position right in the middle between the many small and the few large enterprises:

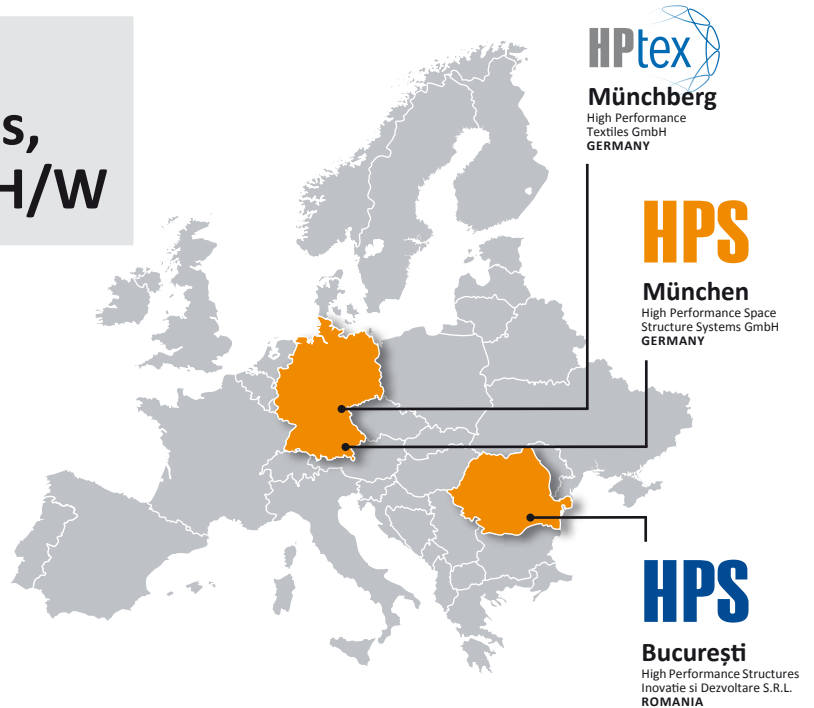
- self reliant and managed by owners
- strongly growing
- internationally present.

The capacities of the HPS Group are solidly rooted on four foundations:

- 1) acknowledged experts for project management, engineering (in many disciplines), material science, MAIT and quality assurance,
- 2) highly modern offices and extreme computing capacities & associated software in all HPS sites,
- 3) company-owned infrastructure for manufacturing, assembly and integration,
- 4) large network of European partner companies for special developments, production of all kinds of mechanical parts, material-characterisation & subsystem-tests.

Depending on the **customer's technology needs**, the respective HPS site acts as contractor. Large sub-system contracts are managed by the German site with specialized, high quality & cost efficient contributions from Romania and international partners.

Currently HPS's flight hardware is onboard of **more than 20 ESA- & German missions**, such as Copernicus-CIMR, LUNAR-GATEWAY, HERA, EUCLID, Heinrich Hertz, EnMAP, eROSITA, PROBA-3, CHEOPS, JUICE, BIOMASS, ALTIUS, SENTINEL-4, MTG, ExoMars 2016, ELECTRON (It's business time), ION (Wild Ride).



HPtex
Münchberg
High Performance
Textiles GmbH
GERMANY


HPS
München
High Performance Space
Structure Systems GmbH
GERMANY

HPS
București
High Performance Structures
Inovatie si Dezvoltare S.R.L.
ROMANIA

Product	HPS-DE	HPS-RO
Large Deployable Reflector Subsystems	●	○
Reflector Antenna Subsystems	●	○
Navigation Antennas	●	○
Lightweight Portable Ground Antennas	●	○
Deorbit Deployable Sail Modules	●	○
Deployable Arms	●	○
Composite Structure Subassemblies	●	–
Lightweight Secondary Structures	●	●
Optical Structure Assemblies	●	○
CFRP Electronic Housings	●	–
Isostatic Mounts	●	●
Metal Parts	●	●
3D-printed-/ALM-Parts	●	●
Thermal Straps and Thermal Washers	○	●
Multilayer Insulation MLI	●	●
Radiators and OSR Bonding Service	●	●
Radiation Protection	●	–
Metal Meshes for RF-Reflection	●	–
MGSE	●	●
Engineering & Integration Services	●	●

● Turnkey delivery ○ Contribution via elements

CONTACTS

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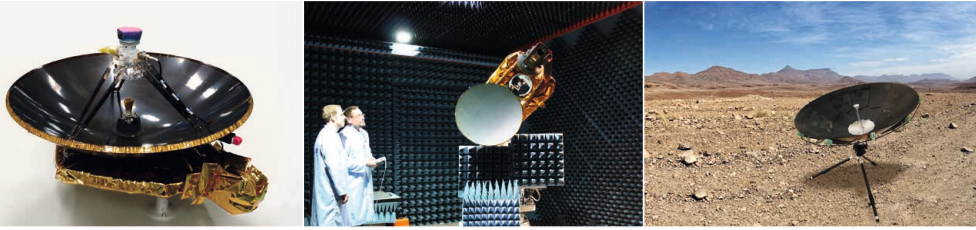
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Main Product Portfolio

REFLECTOR ANTENNA SUBSYSTEMS (up to 2.4 m)



- Ka-Band Antennas (Telecom/Science)
- Q/V-Band Feeder Link Antennas
- Radar Reflector Antennas
- Navigation Antennas
- Mobile Ground Antennas
- Cubesat Antennas
- RF Components.

LARGE DEPLOYABLE REFLECTOR SUBSYSTEMS (3 m - 20 m)



- Large Deployable Antennas
- Deployable Reflector Subsystems
- Deployable Arms
- RF-Reflecting Metal Mesh
- Applications for Earth Observation & Telecommunication.



DEORBIT DEPLOYABLE SAIL MODULES



- Dragsails for Satellites and Launchers
- Deorbit of 1 kg up to 1,500 kg
- Applicability for LEO up to 900 km
- Product family of different sizes
- Autonomous deployment
- No need for active GNC.



LIGHTWEIGHT STRUCTURES



- Instrument Structures
- Radiation Shielding Structures
- CFRP Electronic Boxes
- Secondary/Tertiary Structures/Parts
- Composite Structures
- Nanotube Reinforced Structures
- 3D-Printed Components & Mass Dummies.

THERMAL HARDWARE



- Metal Radiators
- OSR Bonding Service
- Multilayer Insulation MLI
- High Temperature Insulation
- Thermal Washers
- Thermal Straps (copper & graphene).

MECHANICAL GROUND SUPPORT EQUIPMENT



- Assembly & Integration Stands
- Lifting & Hoisting Devices
- Turning Devices (also for therm. vacuum)
- Multi Purpose Adapters
- Transport Containers
- Purging GSE.