



Products & technologies» Space applications»

In the seventies **Microtecnica** joined the European Space Industry community by participating in the European Spacelab manned program; since then Space activity has become part of the **Microtecnica** business.

The basic Microtecnica core technical and production competencies have been exploited in order to provide highly engineered items capable to operate in this very challenging environment. Space products specializations include:

- **Environmental & Thermal control Systems and components.**
- **Cryogenic controls.**
- **Hydraulic, pneumatic and electromechanical actuation systems and components.**

The following products have been designed and developed by Microtecnica for the most important national and European Space programs:

Program	Products
SPACELAB	Water & Freon Pump packages, Cold Plates, Interloop Heat Exchangers, Thermal Capacitors and Ground Support Equipment for the Active Thermal Control System.
ESA Tech Demo	Thrust vectoring electromechanical actuator
IRIS	Spinning table with the electronic controller, LAGEOS satellite structure.
EURECA	Active thermal control system components and electronic controller
ISS-COLUMBUS	Water Pump assembly, Water three way modulating valve, Cold plates and Ground Support Equipment for the Active Thermal Control System.
ISS- Multi-Purpose Logistics Module	Water Pump assembly and Ground Support Equipment for the Active Thermal Control System.
ARIANE 5	Cryogenic components for the main stage & the Vulcain motor: check & flush valves, electrovalve modules, helium pressure control module



ISS COLUMBUS Water Three way Modulating Valve



ARIANE 5 Vulcain Engine Helium Electrovalves Assembly



ISS COLUMBUS Water Servicing GSE



ARIANE 5 Main Stage Pressure Regulating Module

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