

Transversal competencies

Launchers

Satellites

Orbital systems



PYTHEAS Technology is an expert in design and manufacturing of innovative piezoelectric devices. Its field of competence mainly covers 3 types of applications: Vibration control (dampers/isolators, energy harvesting, structural health monitoring); Ultrasonic devices (non-destructive testing, flowmeter); Actuators (piezo-valves, piezo-pump)

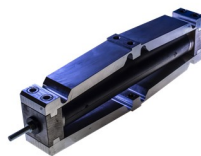
COMPETENCIES & CAPABILITIES

- Piezoelectric vibration dampers and isolators (semi-passive, frequency tunable)
- Embedded structural health monitoring, energy harvesting and non-destructive evaluation.
- Piezoelectric sensors (flowmeter, ultrasound probes)
- Piezoelectric actuators (positioners, valves, pump, de-icing system)

Piezoelectric high-speed valve



Vibration absorber



PYTHEAS TECHNOLOGY

PRODUCTS & SERVICES

PYTHEAS Technology offers piezoelectric devices for:

- Vibration damping and isolation. Proprietary technologies are semi-passive and frequency tunable.
- Energy harvesting and self-supplied sensors
- Structural health monitoring and embedded non-destructive evaluation
- Ultrasonic flowmeter and ultrasound probe
- Piezo-valves and piezo-pump

MAJOR SPACE PROJECTS & REFERENCES

Challenge R&D CNES laureate (2020): Embedded non-destructive evaluation system for future reusable satellite launchers.

PYTHEAS Technology develops an embedded sensor network using ultrasonic lamb waves for detection, localization, and identification of defects.

Main customers in space industry:

- CNES
- LIEBHERR Aerospace
- IXBLUE
- ArianeGroup

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TURNOVER 1 M€

WORK FORCE 20 employees

SPACE TURNOVER 0.2 M€

SPACE WORK FORCE 8 employees