

LIDAX Ingeniería s.l.
Technological SME
(Madrid) SPAIN

The LIDAX logo is centered in a white rectangular box. It features the word "LIDAX" in a bold, blue, sans-serif font, followed by three small black squares arranged in a vertical line.

Activity 9.2. Strengthening the foundations of Space science and technology (SSF)

Area 9.2.2 Research to support space transportation and key technologies

01 - Key technologies enabling observations in and from space

02 - Key technologies for in-space activities

Activity 9.3. Cross-cutting activities

Area 9.3.1 SME specific research

01- Bringing terrestrial SME research into the space domain

Presentation of LIDAX



SHORT HISTORY OF THE ORGANISATION

SME Space Engineering founded on 2000 Madrid (SPAIN)

Involved in **Scientific Instrumentation** programs for **ESA** Missions

STRUCTURE OF THE ORGANISATION

22 Engineers and technicians

Quality Certifications **EN9100:2009** based on ECSS

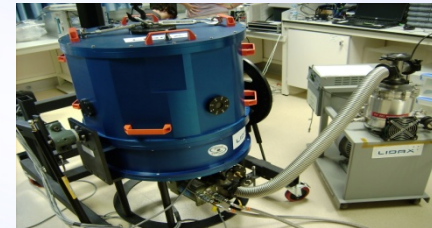
R+D Department : Three functional areas: **Design, Analysis and IAV**

EXPERIENCE WITH THE EU FRAMEWORK PROGRAMME

3rd Call Space in FP7: **Partner** of a selected proposal (MAGDRIVE)
Magnetic Superconductor Non-Contact Harmonic Drive)

4th Call Space in FP7: **Coordinator** proposal in activity 9.2

Strengthening the foundation of Space science and technology.



DESIGN

*Mechanical & Thermal
Control Design CATIA v5*

ANALYSIS

*Structural (NASTRAN)
Thermal Astrium standard
(THERMISOL/THERMICA)*

INTEGRATION & TEST

*Space Mechanisms and
Cryogenic
Testing Laboratory*

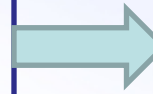
LIDAX Space Complete Competencies on



Advance Mechanical Equipments and components


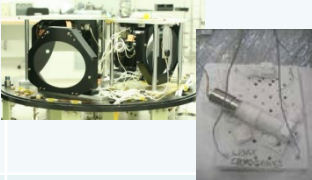


Fight Hardware

Space Scientific Instruments



In Extreme environments (cryogenics & space)

With High Level of Performances

FP7 Space 5th Call Topics	LIDAX Projects related with	LIDAX Projects Names	LIDAX Hardware	LIDAX Skills & Capabilities
Area 9.2.2 01 – Key technologies enabling observations in and from space	Formation Flying	Coarse Lateral Sensor Proba3		Opto-Mechanics Development of high-performance mechanisms under hazard conditions Cryogenic and Radiation Structural Analyses
	Measurement and relative positioning controls	MIRI Pick-off Mirror James Web Telescope Simulator Cryogenic Submicron Actuator and Translation Unit JWST		
	Large Foldable Mirror Technologies and Detectors	(MIXS) Focal Plane Assembly BepiColombo Mission Focal Plane Assembly PLATO Mission Non Contact bearings for space Mechanisms		
Area 9.2.2 02 – Key technologies for in for in-space activities	Power generation wire-less power transmission space communications	Laser Focus mechanism for Integrated Laser Tool 4X1 Cutting & Welding Optical metrology Power transmission Data transfer		Thermal Analyses and Thermal Control Magnetic Levitation

Intended Role in a Consortium

L I D A X is your reliable **PARTNER** in the following work packages :

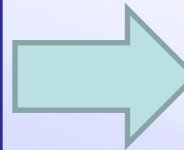
Design, Analyses and Integration
and Testing in **Opto-
Mechanics**

Development of high-performance
Mechanisms under hazard
conditions
Cryogenic and Radiation

Structural Analyses

Thermal Analyses and Thermal
Control

Because



High level of Competence to
be responsible of *complete SS
development and new product
development*

High Qualified Engineering
staff at a **Moderate** labour **cost**

Partnership for high level
Multidisciplinary subsystems

Expertise in other Calls from
FP7 Space

LIDAX Contacts for 5th Call Space FP7 Proposals



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