



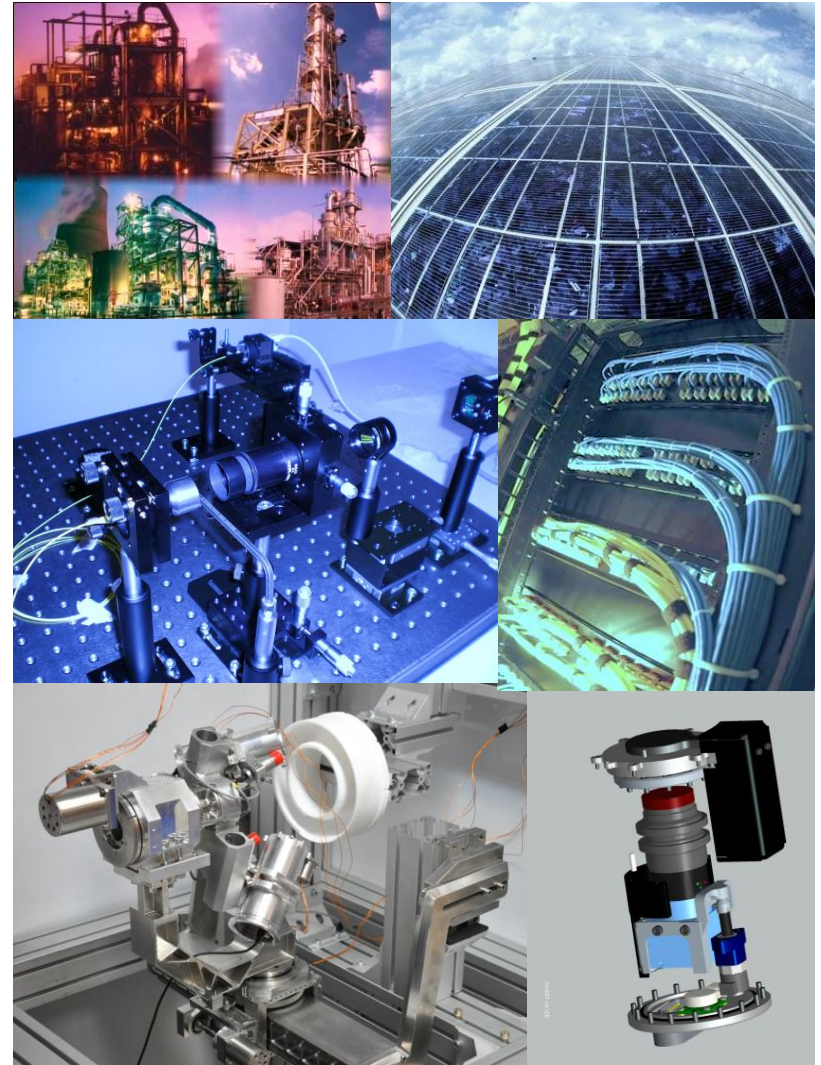
A subsidiary of ALEM group

Mr. Massimiliano Tordi, General Manager

Opportunities for industry from the European Southern Observatory
Sala Conferenze Internazionali – Ministero degli Affari Esteri
Rome, 22 June 2012

AIEM Group

- **Group facts sheet**
 - Group activities include TLC, Automation, Engineering, Renewable Energies
 - Group turnover 2011 > 30 M€
 - > 30 Employs at the headquarter
 - Entirely privately owned
- **Our contribution to the group**
 - 4 employs (Engineering, PhD and post-doc)
 - 2% of the turnover



Main activities

- **Optical design**

Imaging and non-imaging optical systems.

- **Optical systems integration**

Design and realization of opto-mechanical systems for support equipment and instrumentation.

- **Metrology**

Development of instrumentation for non-contact surface metrology.

Customers

- **Space agencies and research institutions**

ASI, ESA, INAF, CISAS-OAPD, ...ESO ? Hope so !

- **Large firms**

Thales Alenia Space, Selex Galileo, MTM

- **Firms with R&D capabilities**

Prima Power SpA, Salvagnini SpA

Relevant Experience

Mr. Massimiliano Tordi, General Manager
Space Technologies srl

22/06/2012

EN Engineering
DS Design
HW Hardware development
SW Software development

Customer	Program	Instrument	Activity		Funding	Status
Thales Alenia Space	PLD-W	-	SW	Simulation tool for laser light propagation through atmospheric turbulence	ASI	Completed
			DS	Preliminary design of optical ground station		
ASI	PMI	-	DS	Passive satellite for optical communications	ASI	Completed
MTM	ALMA	-	HW	Measurement of antenna elongation for acceptance test	ALMA	Completed
Alta Space	TRP	-	HW	Non-contact surface metrology in vacuum	ESA	Completed
			SW	Control software of robotic arm (7 DoF), acquisition of environmental parameters, calibration and surface reconstruction software		
CISAS	Bepi Colombo	-	HW	Sun simulator for irradiance test	CISAS	Completed
CGS	SSA	-	DS	Optical telescope for space surveillance	ESA	Completed
INAF	E-ELT	-	DS	Large field spectrograph for E-ELT	INAF-OAPD	Completed

Relevant Experience

Customer	Program	Instrument	Activity			Funding	Status
SELEX GALILEO	EXOMARS	MEDUSA	HW	Instrument breadboard		ESA	Completed
SELEX GALILEO	Bepi Colombo	SYMBIOSIS	HW	Vacuum chambers		SELEX GALILEO	On-going
INAF	Marco Polo R	WAC/NAC	DS	Optical design of wide angle and narrow angle camera		ASI	On-going
SELEX GALILEO	TRP	-	DS/ HW	Optical system design and integration		ESA	On-going
SELEX GALILEO	TRP	-	HW	-		ESA	On-going
CISAS	Laplace	WAC	DS	-		ESA	On-going
CISAS	Laplace	NAC	DS	-		ESA	On-going
CISAS	Hildra	-	DS	-		ESA	On-going
Thales Alenia Space	Solar Orbiter	METIS	DS	Sun simulator for METIS testing		ASI	On-going
INAF	LBT	LINC-NIRVANA	EN	Support to system integration		INAF	On-going

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