



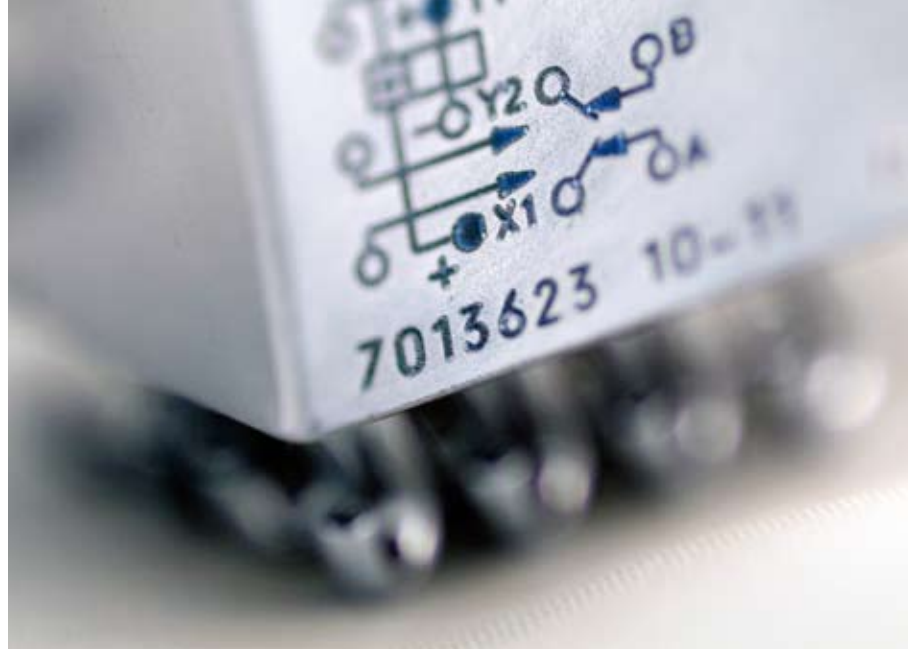
The Space Industry
requires the best technology

Worldwide Manufacturer of Relays



STPI Space Division

provides a complete range
of hermetically sealed
relays for Space Application
from 1 to 50 Amps



www.stpigroup.com



The Space Industry requires the best technology

STPI Group was founded on the basis of providing its customers with a wide range of hermetically sealed, high reliability relays and switching solutions for the most severe applications.

Established in 1955 and historically positioned in the defence sector, STPI continues to develop and adapt its product capabilities to ever-changing market demands. Today, STPI Group, with operations in the USA, France, India and Mauritius, supports several market sectors including space, commercial and military aeronautics and railways.

STPI Space Division, a Company of STPI Group, is present in the Space industry since 1975, and is specifically dedicated to supplying high-reliability electromechanical relays for this market.

The qualification to the highest standards and the involvement in the major Space programs show the trust of the Space Experts Community in our products and in our capacity to develop, manufacture, and deliver high reliability relays for those applications.

STPI Group encourages the development of long lasting relationships with its customers, suppliers and employees in order to achieve reasonable, regular and sustainable growth for many years to come!

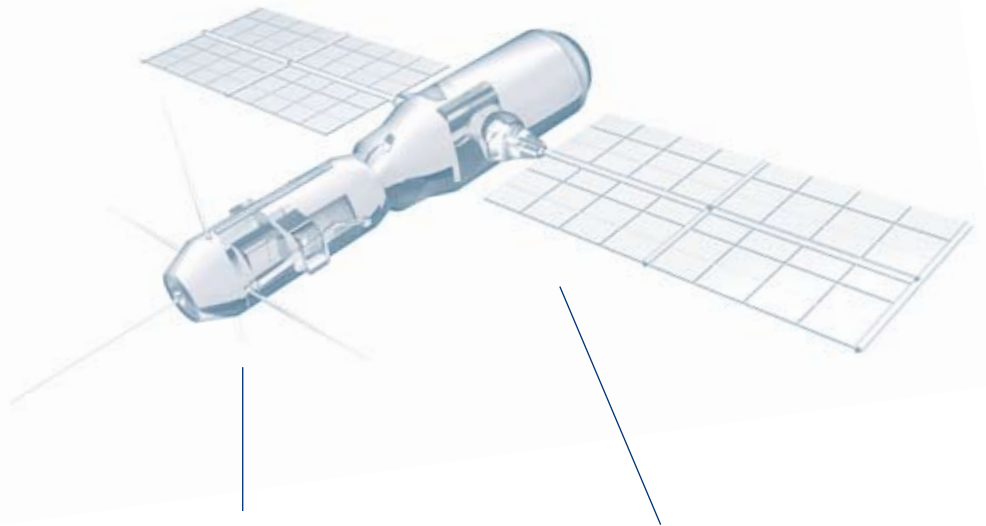
STPI Space Division is ready to support you for your Space projects.

Launcher

- Inertial Reference System
- On Board Computers
- Power Control Units
- Stage Separation Interface
- Satellite Control System
- Telemeasure System
- Safety System

STPI References :

 **T, E215, EL215,
EL415, 310,
311, 320**



Satellite Payload

- Specific Equipments
- HF / RF Equipments

STPI References :

 **T, TL, EL215,
EL 415,
PHL50**

Platform - Bus

- Power Supply
- Battery Switching
- Power & Conditioning
Distribution Unit
- Heating Control
- Solar Panels Control

STPI References :

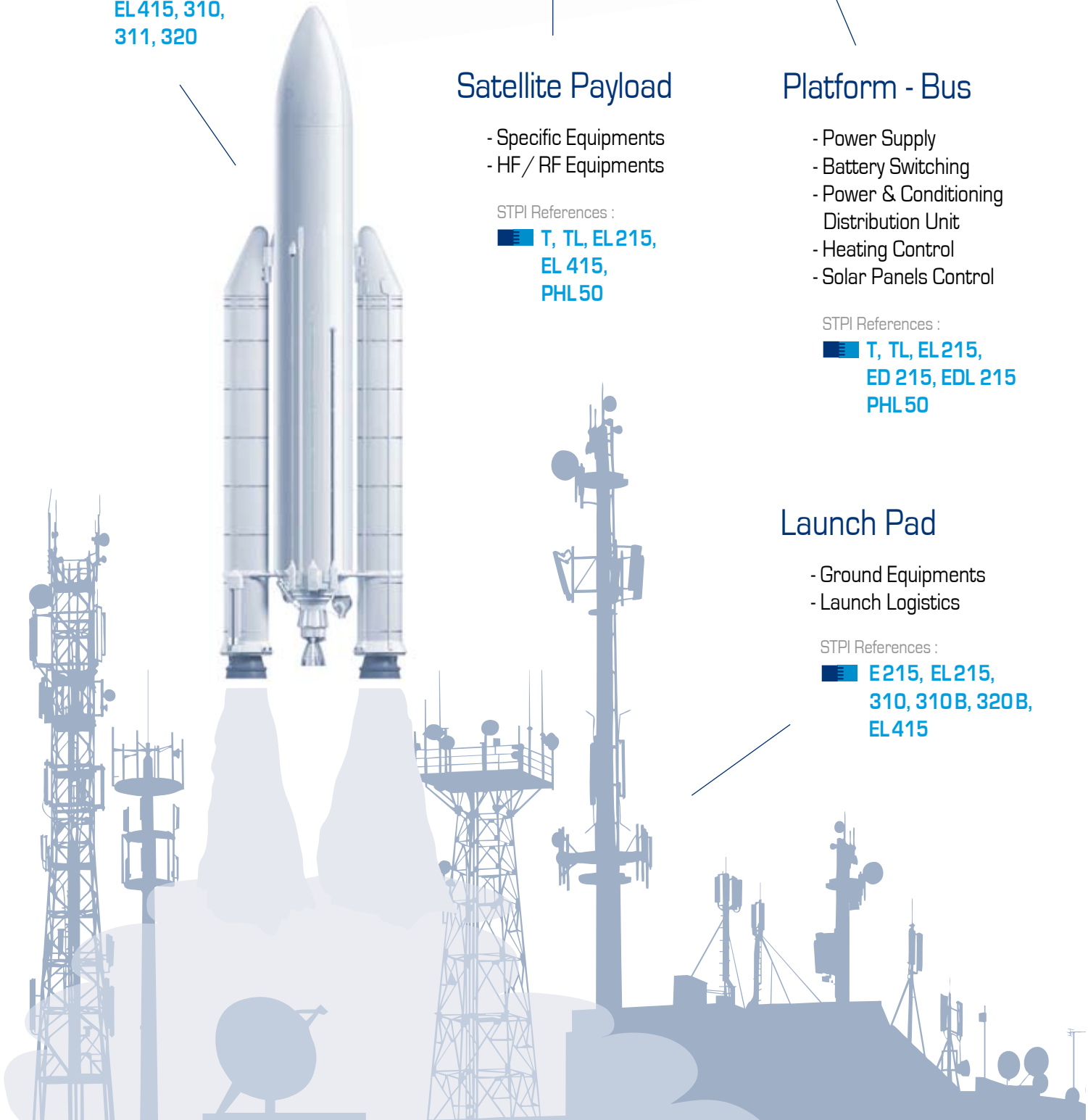
 **T, TL, EL215,
ED 215, EDL 215
PHL50**

Launch Pad

- Ground Equipments
- Launch Logistics

STPI References :

 **E215, EL215,
310, 310B, 320B,
EL415**



Most common relays used in Space Applications

Our Space Relays refer to customer's specific requests,
and to the relevant applicable standard specifications,
such as ESA/ESCC, MIL, NASA, JAXA...

Non Latching Relays

Rating & Arrangement	Can Size	Serie	Design	Application Reference
1 Amp - 2 PDT	TO5	T		ESA QPL Specification ESCC 3601 002
2 Amp - 2 PDT	½ Cristal	310/311		Customer Launcher Specification
2 Amp - 4 PDT	Cristal	320		Customer Launcher Specification
5 Amp - 2 PDT	1/5 Inch ³	E 205		Customer Space Specification
10/15 Amp - 2 PDT	½ Inch ³	E 215		ESA QPL Specification ESCC 3601 007
15 Amp - 2 PDT - DB	1 Inch ³	ED 215		Customer Space Specification
15 Amp - 4 PDT	1 Inch ³	E 415		Customer Space Specification

Latching Relays

Rating & Arrangement	Can Size	Serie	Design	Application Reference
1 Amp - 2 PDT	TO5	TL		ESA QPL Specification ESCC 3602 002
2 Amp - 2 PDT	½ Cristal	310B		Customer Launcher Specification
2 Amp - 4 PDT	Cristal	320B		Customer Launcher Specification
5 Amp - 2 PDT	1/5 Inch ³	EL 205		Customer Space Specification
10/15 Amp - 2 PDT	½ Inch ³	EL 215		ESA QPL Specification ESCC 3602 009
15 Amp - 2 PDT - DB	1 Inch ³	EDL 215		Customer Space Specification
15 Amp - 4 PDT	1 Inch ³	EL 415		ESA QPL Specification ESCC 3602 004
25 Amp - 3 PDT Option: + auxiliary contact	1 Inch ³	EL 325		Customer Launcher Specification
50 Amp - SPDT - DB + aux.	2,75 Inch ³	PHL		Customer Space Specification ESCC 3602 014

A state of the art factory dedicated to Space Relays



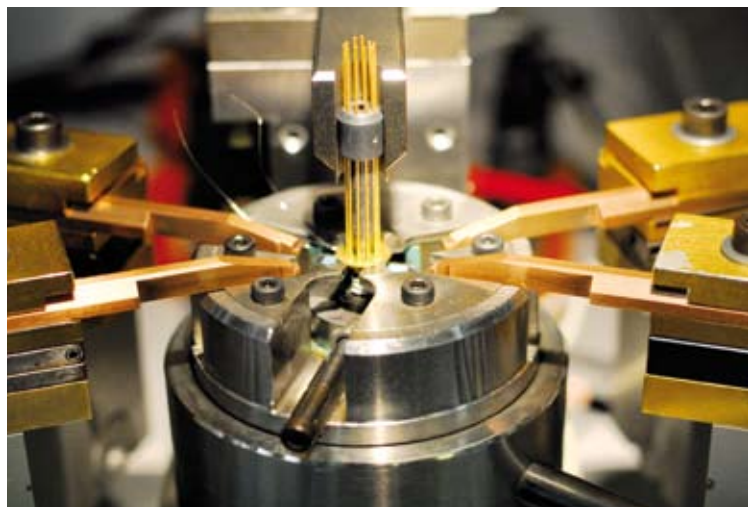
The Factory

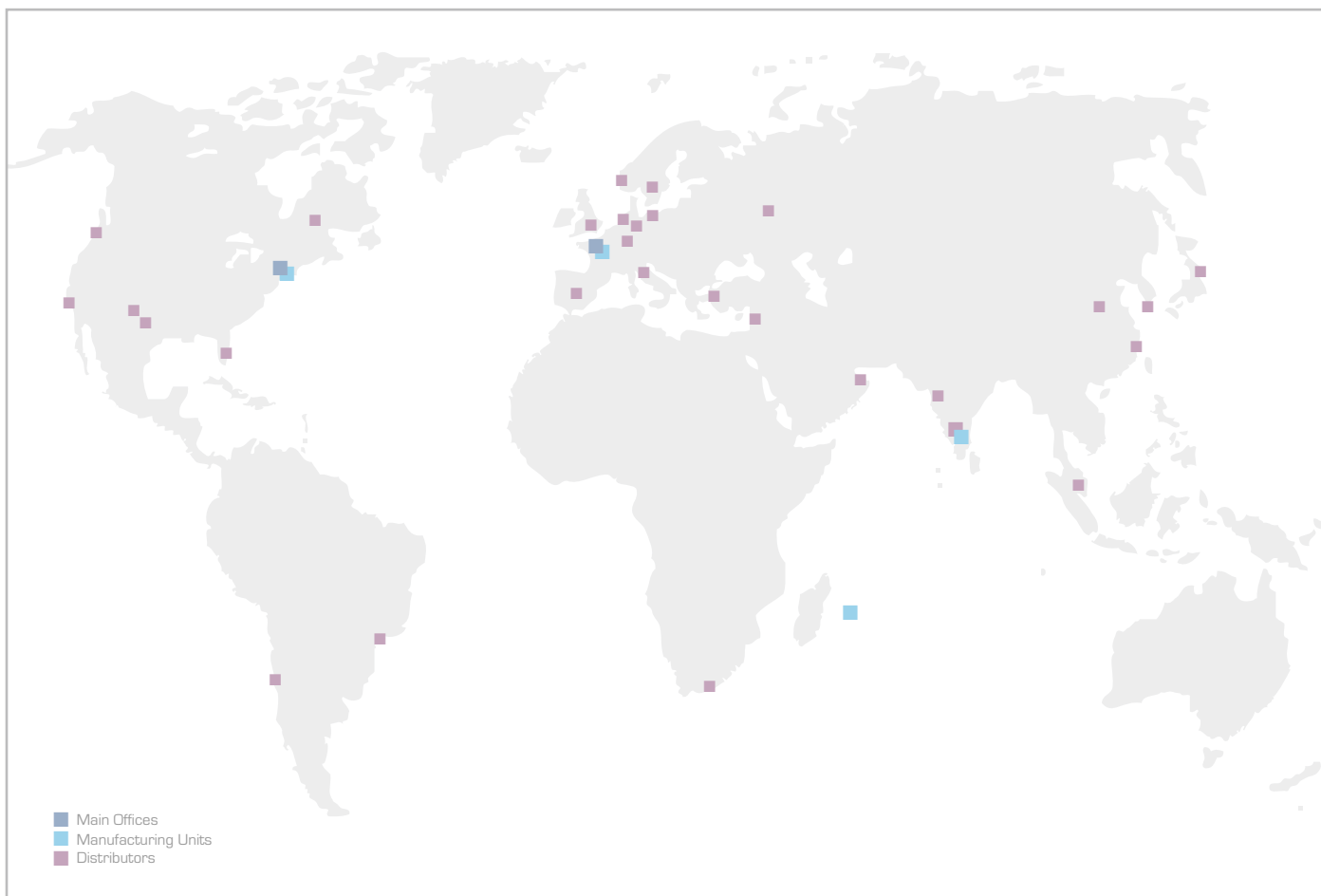
STPI Space Division is a State of the Art factory equipped with high precision assembly operations, clean room facilities and a full range of testing capabilities. Several decades of know-how are perpetuated through an experienced management team and the continuous development of a highly skilled workforce.

STPI Group aims for constant customer satisfaction and high reliability product for all missions by commitment to High Quality Standards: ISO 9001, ESA, CNES, MIL, AQAP2110, EN/AS/JISQ 9100.

Our relays are all subjected to stringent testing, conducted on specialized equipment that has been specifically designed to optimize the time - and the costs - necessary to perform these controls. This helps us offer competitive pricing to our customers. Depending on his decision, customer can proceed to Pre-Encapsulation Source Inspection, or ask to a third party to do so.

In order to fulfill all reliability requests for space applications, each relay is individually screened: it is submitted to the most constraining tests for vibrations, shocks, rapid changes of temperature, hermeticity, and many others criteria. The results of those test guaranty that no failure will occur during space operation. On his decision, customer can also participate to the final Source Inspection, or ask a third party to do so.





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