



# SINTERSA

# SCP SINTERSA

Together, we connect



# CORPORATE STRUCTURE

## STRUCTURE

- **Spanish private capital Business**
- Headquarters: **Madrid** (Spain)
- Factory: **Sevilla**
- Branch Offices: **Barcelona and Lisbon** (Portugal)

## TURNOVER 2021

- SCP-SINTERSA'S team: **241 employees**
- 2020 Turnover: **€29 million**
- Inventory Stock: **€5,960 million**
- Active customers: **> 600**

**SCP- SINTERSA** designs, manufactures and supplies electrical interconnection components and systems for professional applications in harsh environments.

Our team has more than **35 years of experience** in the **aerospace, military, naval, railways & industrial markets**.

SCP-SINTERSA offers **customized solutions** to fulfill electric interconnections needs in:

- **COMPONENTS:** distribution and manufacturing of connectors, fiber optic solutions, custom cables, heat-shrinkable elements, crimping tools and accessories.
- **PRODUCTION:** design and manufacture of wire-harnesses and electric assemblies, control units, communication racks, and test benches.
- **ON-SITE ASSEMBLY:** aeronautic installation and integration in military vehicles and aircraft.





# BRANCHES & PROJECTS

## SCP SINTERSA



## LOCATION & ACTIVITIES

# MADRID

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- Distribution & Warehouse I
  - Purchasing & Sales.
  - Engineering & Project Management
  - Quality Control
  - Connector Assembly
  - Harnesses Manufacturing:
    - Mil-Aero, Railway, Industrial
  - Assembly: Getafe, El Pardo and others.
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- Aeronautical production: 1000 m<sup>2</sup>
  - Military production: 500 m<sup>2</sup>
  - Railway production: 500 m<sup>2</sup>
  - Main warehouses: 1000 m<sup>2</sup>
  - Headquarters: 500 m<sup>2</sup>

**TOTAL: 3500 m<sup>2</sup>**



## LOCATION & ACTIVITIES

# SEVILLE

- Production & Warehouse II
- Engineering & Project Management
- Quality Control
- Mil-Aero serial Production
- Assembly: San Pablo, Tablada
- Services: Tooling tests
- Military and aeronautical production: 1500 m<sup>2</sup>
- Warehouse: 300 m<sup>2</sup>
- Offices: 200 m<sup>2</sup>

**TOTAL: 2000 m<sup>2</sup>**

# BARCELONA

- Sales Office

# PORTUGAL

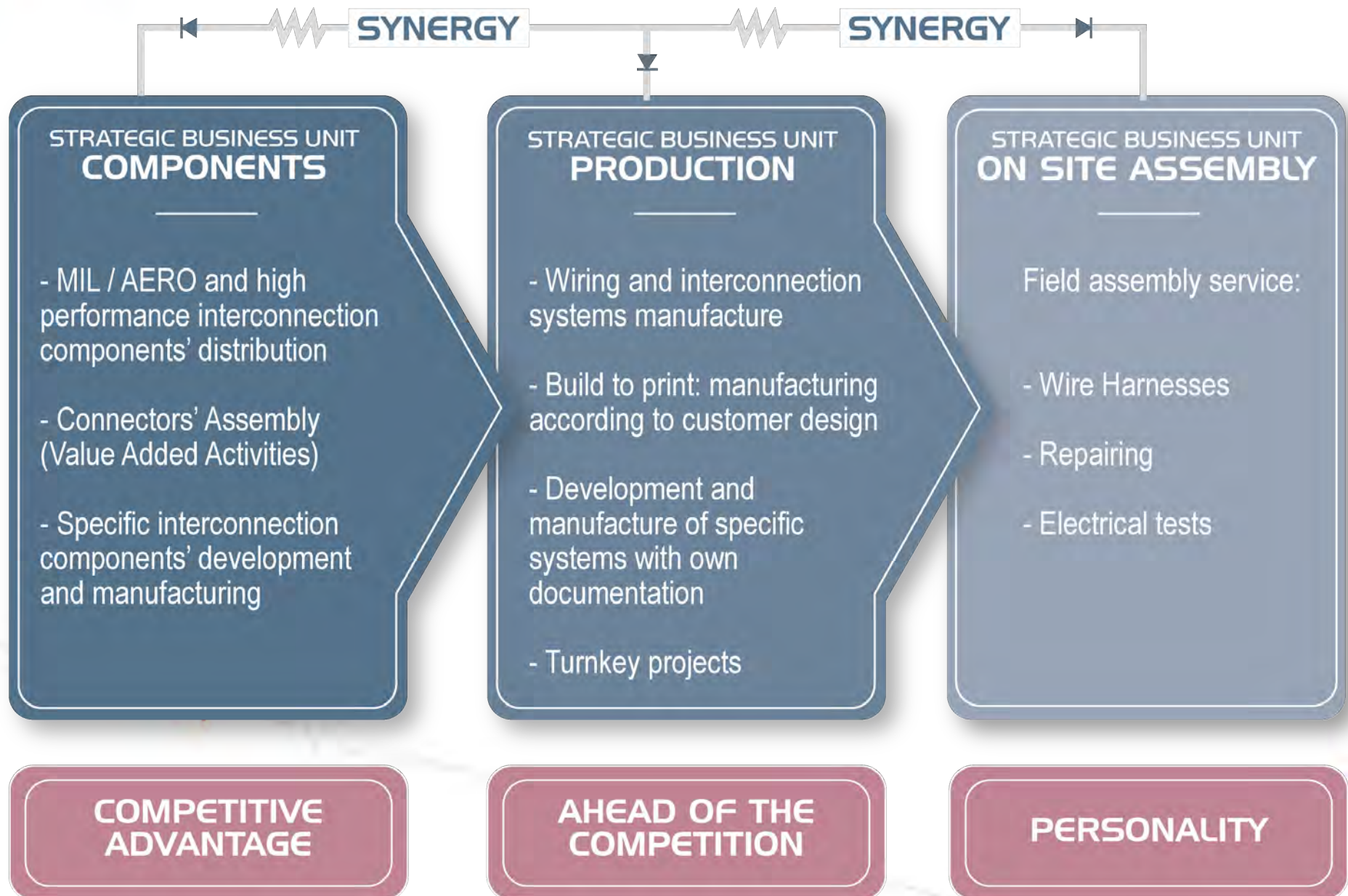
- Subsidiary (Sintersa Portugal)



A photograph of two men in business attire. The man on the left is younger, with dark hair, wearing a dark blue suit jacket over a white shirt. The man on the right is older, with grey hair and a beard, wearing a light blue button-down shirt and a dark blue tie with white polka dots. They are both looking down at a tablet computer held by the older man. The background is a blurred office interior with large windows and structural elements.

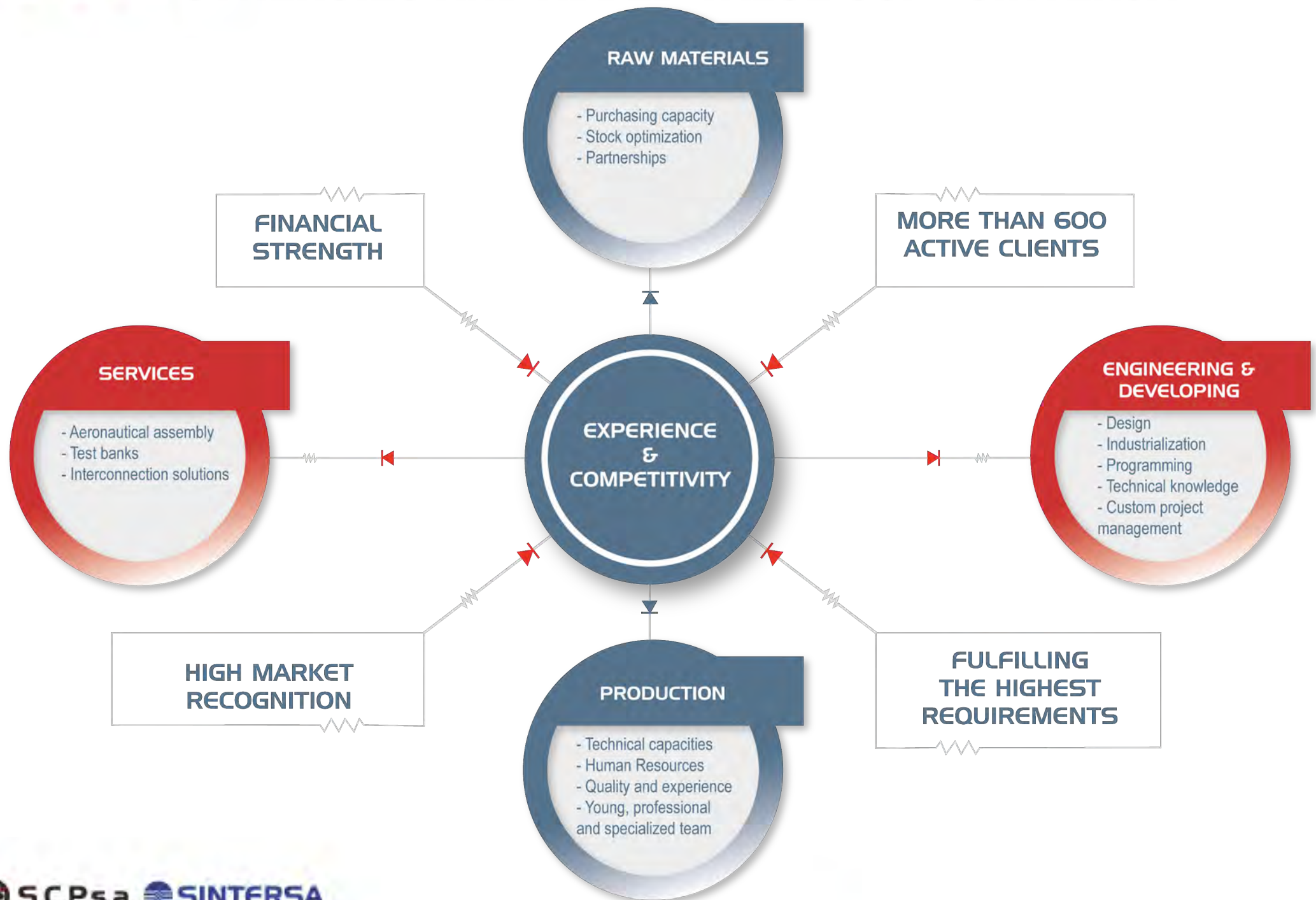
# STRATEGIC BUSINESS UNITS

# STRATEGIC BUSINESS UNITS

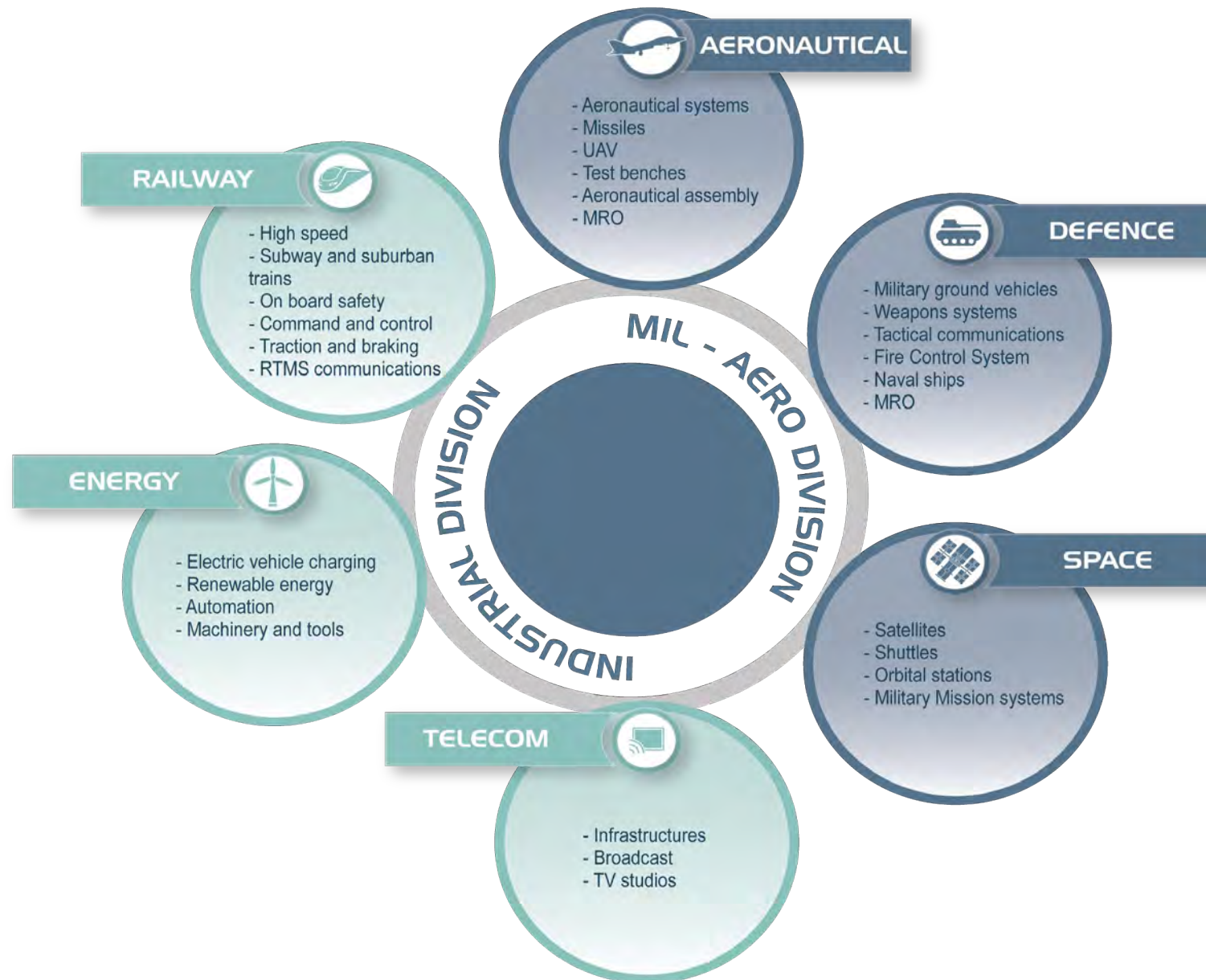




# SYNERGIES AND ADDED VALUE SCP - SINTERSA



# MARKETS

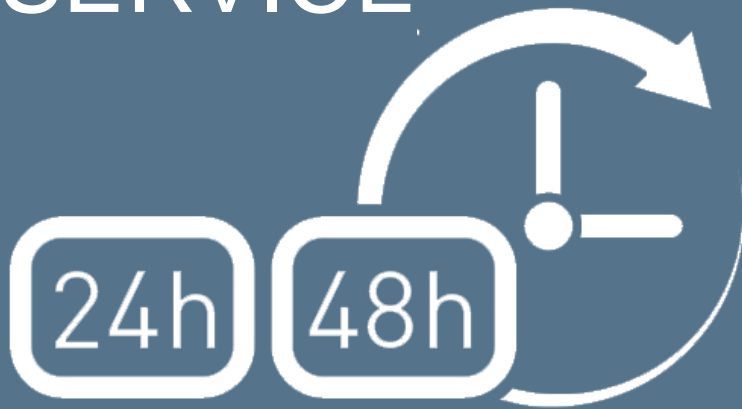






# COMPONENTS CONNECTORS' ASSEMBLY

# EXPRESS DELIVERY SERVICE



+40.000 CONNECTORS ASSEMBLED PER YEAR



SCP  
SCPB



**MIL-C-5015**  
Threaded – SCP/MS  
Bayonet – SCPB — VG95234

made in Spain  
Assembled  
by SCP  
48h DELIVERY



SCPT



**MIL-C-26482**  
SCPT – VG95328



SCP TV



**MIL-DTL-38999**  
Connectors SCPTV

QPL  
APPROVED



CIR



**ITT VEAM CIR**  
MIL-C-5015 – Bayonet  
VG95234

# COMPONENTS

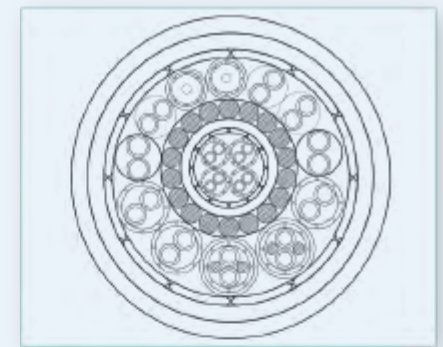
## PRODUCTS FOR DISTRIBUTION

More than 30 years of experience guarantee **SCP SINTERSA** as one of the manufacturers and distributors of components with high reliability in the market.

The know-how of our professionals provides value added to each of the products we manufacture and / or distribute, always seeking the best option for our customers.

Among our solutions you can find:

- Connectors
- Special cables
- Wiring special tools
- Heat Shrinkable Material
- Command and control elements
- Cables' Identification
- Connectors' Accessories
- Harness' Accessories



# COMPONENTS

## PARTNERS – PURCHASING CAPACITY

The long term relationship built with our partners makes **SCP-SINTERSA** a benchmark in the market, offering our customers the highest levels of quality and reliability.

- The synergy generated by summing the manufacturing and distribution purchasing volumes enhances our negotiation capacities on prices and payments terms.
- Purchasing planning according to market and customers' needs.
- Distribution contracts with major component manufacturers.
- ADS' procurement certification.

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❖ 2018 Annual volume of purchase: +19 million €

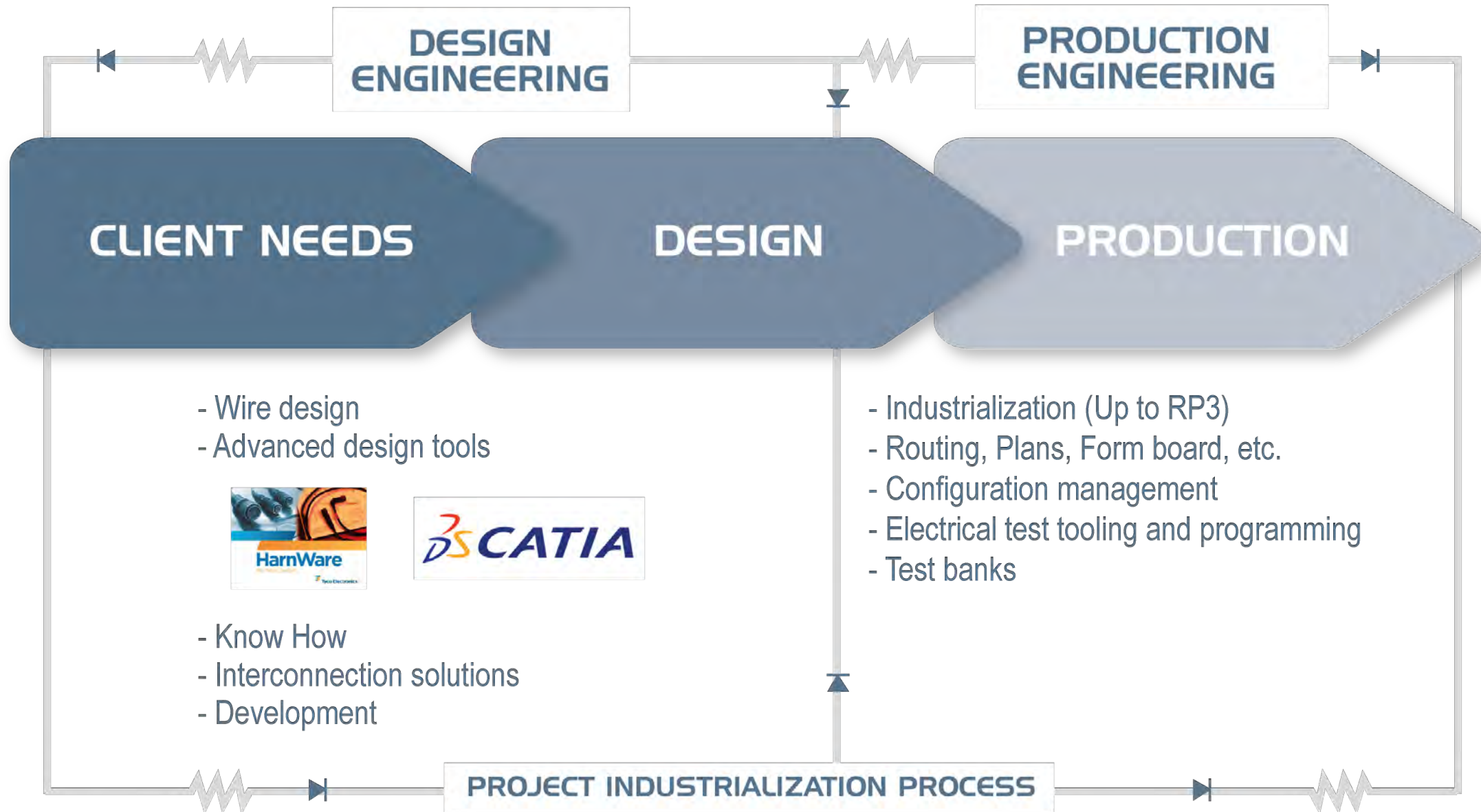






## STRATEGIC BUSINESS UNIT PRODUCTION

# PRODUCTION - ENGINEERING





# MANUFACTURE & INTEGRATION

## WIRE HARNESS DESIGN & MANUFACTURE

Our highly skilled team guarantees the efficiency of each process and the quality of each of our products.

We apply a skill matrix approach to meet the requirements agreed upon with our clients.

These services are audited by professionals that certify that policies, manufacturing process and quality controls are met, allowing us to apply corrective actions and improve continuously along the way.

**Assembly and manufacturing capacity:** >250,000 h. / year

### CERTIFICATE OF SPECIAL AERONAUTICAL PROCEDURES:

- Cut and strip
- Crimping
- Soldering
- Over-brading
- Laser marking
- B1 sealants

### QUALIFICATION OF STAFF:

- Aircraft assembly: EASA PART145
- IPC - A - 610
- IPC / WHMA - A - 620.





# TECHNICAL CAPACITY

## MACHINES & TOOLS

- Automatic cut and strip
- Aeronautical and military crimping
- Signal, power and special contacts processing
- Coax precision stripping
- Fiber Optical assembly
- Certified tool repair and calibration center
  - DMC Approved Suppliers (Category 1)
- Wide range of cable identification technologies

## ELECTRICAL TEST SERVICES

- 6 Automatic electrical testers - WEETECH
- Continuity test equipment - BP-3100S
- Dielectric strength gauge - CABLESCAN INC.256
- Audio Generator - PROMAX
- Oscilloscope - PROMAX
- Megohmmeter - MMG500
- Milometer - HIBOK 201
- Digital multimeters - FLUKE 183
- Crimp retention force gauge- PT-100 (DMC)
- Precision counting machines - BP-3100S y S-311
- Verification & calibration tools - DMC





**LASER MARKING**



**OVERBRAIDING**



**ELECTRICAL TEST**



# TECHNICAL CAPACITY

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## CERTIFIED TECHNOLOGIES

### LASER MARKING

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- No modification of mechanical or electrical characteristics of the cable
- Non-abrasive
- Indelible

### OVERBRAIDING

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- 24, 32 and 48 coils depending on diameter
- Protect low power signals from interference
- EMI-RFI protection

### ELECTRICAL TEST

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- Continuity and insulation test
- Programming and test protocols
- Quality guarantee
- Antena cable analyser



# MANUFACTURE & INTEGRATION

## WIRE HARNESS DESIGN & MANUFACTURE



### AERONAUTICAL HARNESS

- Airbus Defense & Space's certified quality delegation.
- Electric stapler certified team.
- Aerospace Soldering Certification.
- Laser marking of electrical wires.
- Aerospace Overbraiding.
- Aeronautical stations
- Electrical continuity and insulation test of 100% of our products.
- Internal metrological confirmation system.
- Repair and calibration DMC (Daniels Manufacturing Corp.) crimping tools.
- Certified to develop manufacturing routes.

### QUALITY GUARANTEED

- Certified by Airbus Defense & Space, for electrical manufacturing.
- Aeronautical Requirements are implemented on all organizational levels, consolidated and audited monthly.
- First article inspection process.





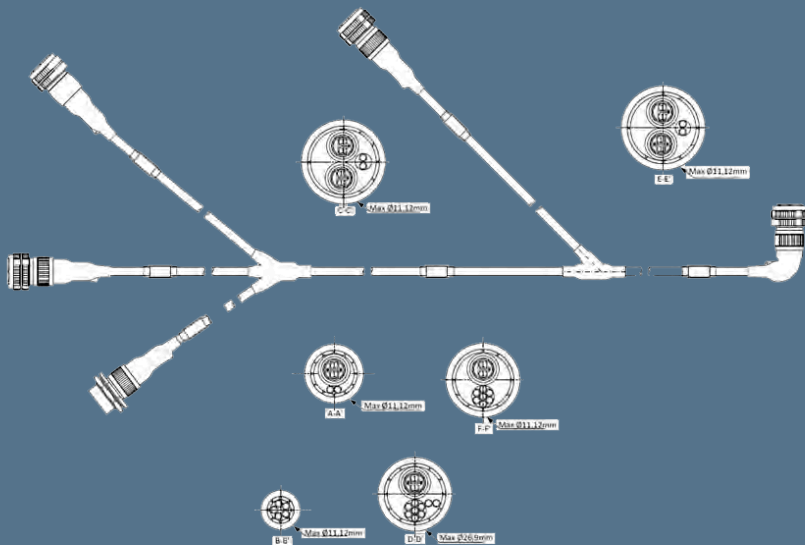
# MANUFACTURE & INTEGRATION

## WIRE HARNESS DESIGN & MANUFACTURE



### DEFENSE

- Maximum flexibility thanks to layered wire drawing methods.
- Adverse condition harnesses.
- Weatherproofing and temperature resistance ranging from -55 °C to 150 °C / 200°C.
- Resistant to hydraulic fluids and hydrocarbons.
- Tactical field-wiring deployment systems.
- Satellite Communications Racks.
- Electrical distribution boxes.




# MANUFACTURE & INTEGRATION

## WIRE HARNESS DESIGN & MANUFACTURE



### INDUSTRIAL & RAILWAY WIRE HARNESS

- Special wiring for industrial applications
  - Coaxial communication wiring.
  - Assembly of coax, triax and cuadrax cables.
  - Power cable harnesses.
  - EMI / RFI shielding cable.
  - Electrical boxes and watertight decks.
  - Rugged fiber optic solution.
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- Vibration-proof cable wiring.
  - UIC approved material.
  - Zero-Halogen, low smoke self-extinguishing wire harness.
  - Crimp terminals and power contacts.
  - Multiple railway manufacturer's certifications.
  - Electric control, and power harnesses.
  - Master traction / brake controllers.
  - Communication wires for signaling and rail safety.





# MANUFACTURE & INTEGRATION

## RACKS AND BOXES



### AERO

- Relay box – AIRBUS 319
- Central Unit – A-330 MRTT
- Distribution box EFI Agusta Bell 212
- Test Benches
  - Test rack avionic MRTT
  - Test avionic System C295



### MILITARY

- Communication racks
- Distribution box SIAC 155/52



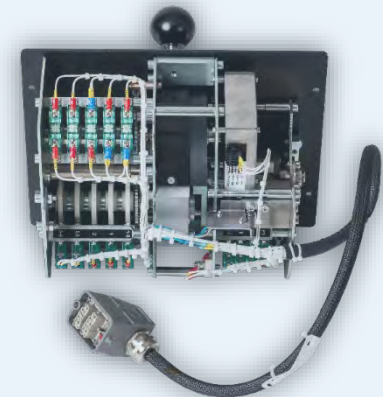
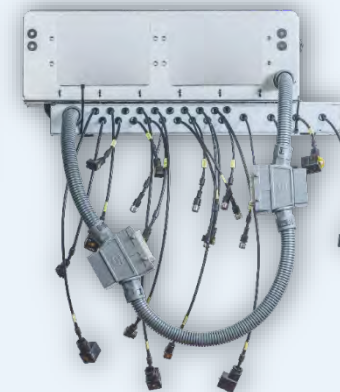
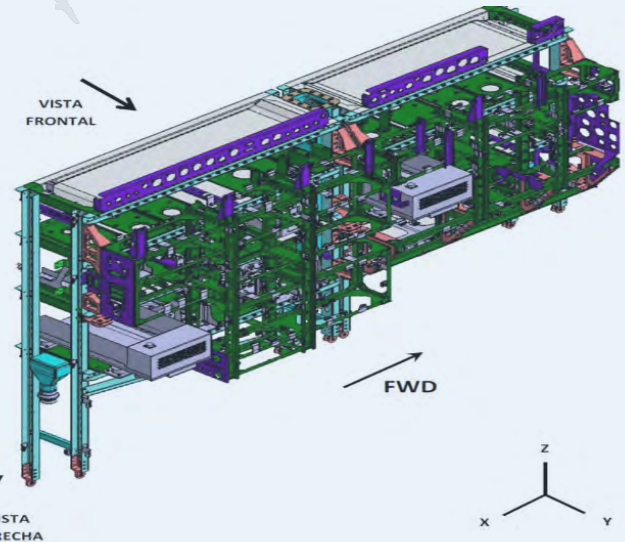
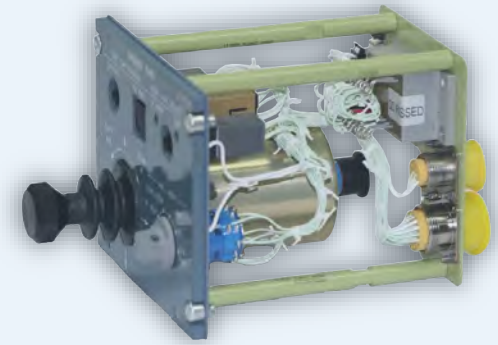
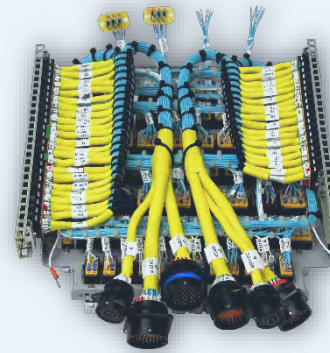
### INDUSTRIAL

- Distribution systems



### RAILWAY

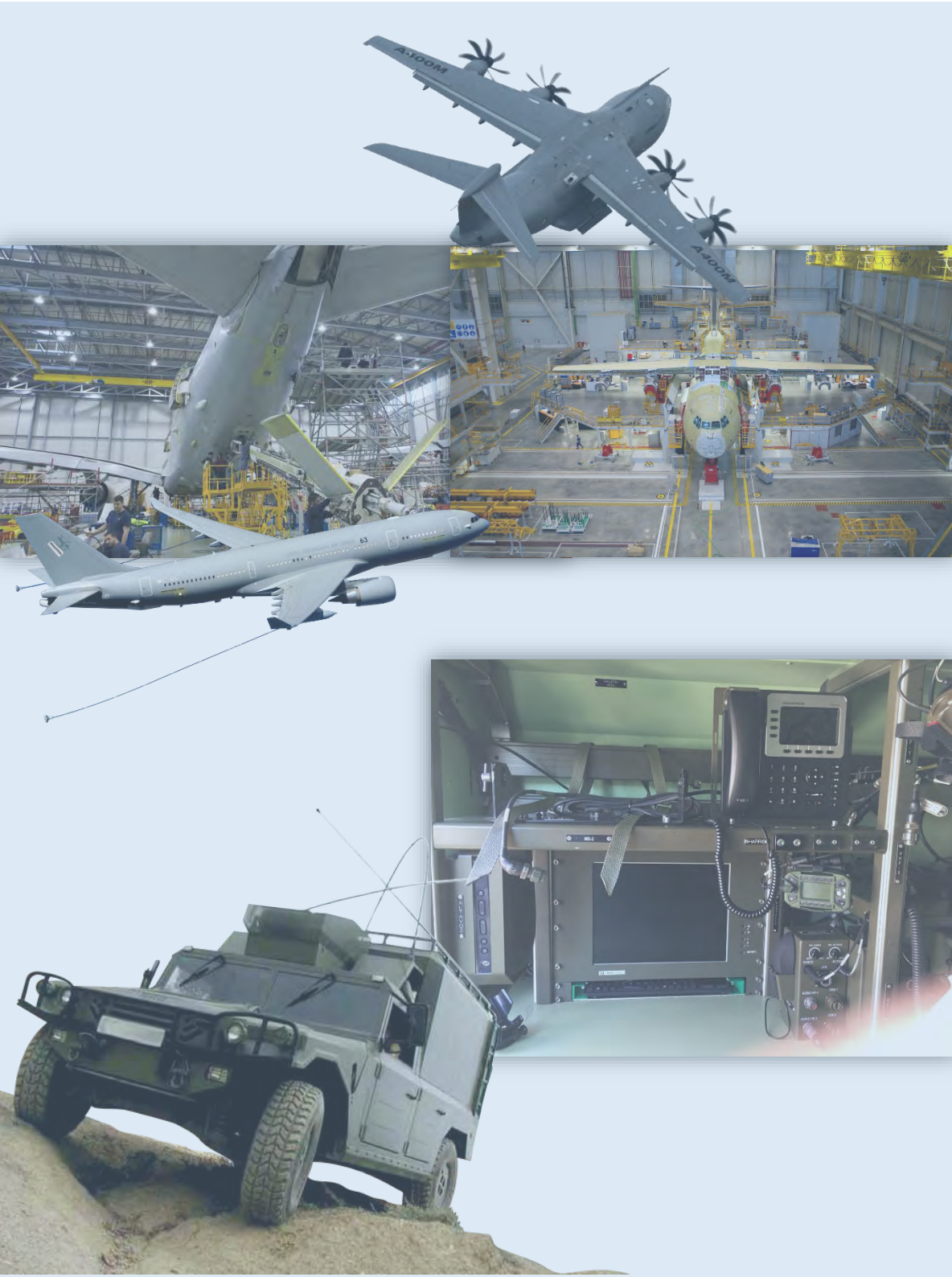
- Master controller







STRATEGIC BUSINESS UNIT  
**ON BOARD ASSEMBLY**



# AERONAUTICAL ASSEMBLY

## A400 M - A330 MRTT - C101 – AB212

- Electrical assembly
- Automated wire harness testing
- Manual pin to pin testing
- Mechanical and electrical repair work
- Decommissioning of obsolete panels
- Installation of updated panels

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# MILITARY ASSEMBLY

- Mechanical design and assembly
- Equipment redistribution
- Wiring design and installation
- Manual pin to pin testing

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# CAPABILITY

- 60 field operators.
- Assembly and manufacture capacity: 108.000 h. / year.





# CERTIFICATIONS



## QUALITY MANAGEMENT SYSTEM

- UNE EN ISO9001:2015
- EN9100:2018
- PECAL-AQAP2110, 4th Ed.

## MILITARY CERTIFICATIONS

- DGAM SINTERSA REGISTRATION
- NATO CODE 1199B
- NATO\_NApma End-user Certificate and Declaration recipient

## ADS (Airbus Defence&Space)

- Special procedures Certificate:
  - Cut and strip
  - Crimping
  - Soldering
  - Overbrading
  - B1 sealants
- EASA PART145 certification:
  - Staff duly certified for Aeronautical assembly.
  - IPC - A - 610
  - IPC/WHMA-A-620
- BOEING certified supplier

# QUALITY GUARANTEE

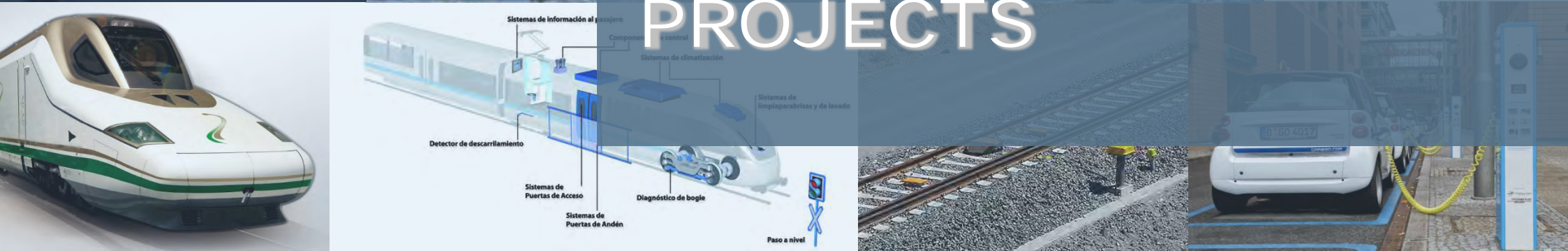
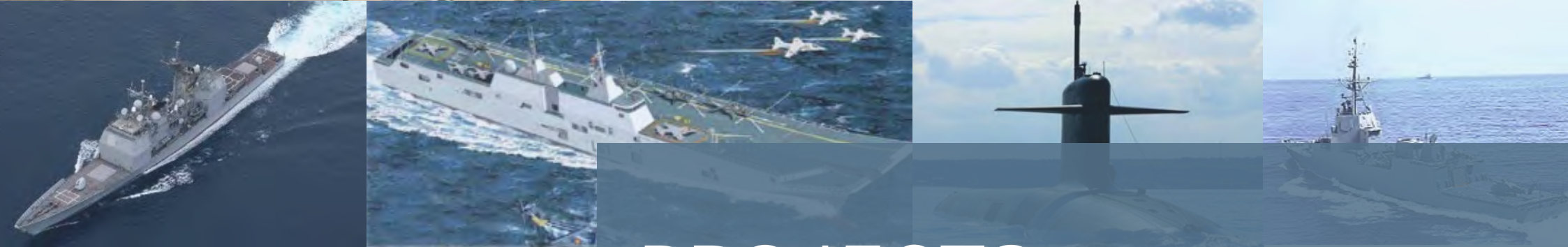


**IPC/WHMA-A-620**  
**Certified IPC Trainer**



**Certified IPC-A-610**  
**Application Specialist**





# MIL - AEROSPACE

- **A400M**

- EPES, crane and strut electrical harnesses
- Filtered connectors for IFF electronic warfare system
- FAL support (installation of engine related harnesses)

- **A330MRTT**

- Electrical transformation to TANKER
- Electrical Spares (Harnesses and Control Units)
- Installation of electrical brackets
- Grounding and bonding testing

- **AWACS**

- BOEING qualified supplier
- Modernization process

- **EFA TYPHOON**

- GCU power control boxes
- Landing gear systems (certified by Messier Dowty)
- Harnesses for GLU system

**A400M**  
EFA TYPHOON

**C295**

**A330MRTT**

**A320 NEO**

P3 SURVEILLANCE

**P3 ORION**

**AWACS**

LIGHT 6 MEDIUM

**AIRCRAFT**

UAVs CN 235

AUGUSTA BELL212 SENTINEL





PROJECT EXAMPLES

## MIL - NAVAL

### FRIGATE F110

- Communication systems harnesses.
- Fiber optic cable solutions.
- Manufacturing of Communication Racks.

### S80 PLUS

- Control systems, backshells and accessories.
- Supply of marine bronze connectors.

PROJECT EXAMPLES

## MIL - LAND

### VCR DRAGÓN

- Manufacturing and installations of harnesses (prototypes).
- Support in the selection process of RoHS compliant electrical components.

### AJAX

- Approval of materials under MIL and VG standards.
- Supply of military cable, heat shrinkable cable and connection elements.
- Black Zinc Nickel (BZN) power connectors, RoHS compliant.

FRIGATE F110  
S80 PLUS  
FRIGATE F-310  
FRIGATE F-105



LEOPARD ARMoured  
VCR DRAGÓN  
AJAX CENTAUR  
ASCOD ARMoured  
DEFENDER TURRET



# MORE GROUND MILITARY PROJECTS

- Military Vehicles 8X8
- Leopard
- Eimos
- Pizarro
- Vamtac
- SCOUTS SV Military Vehicles
- KEPD 350 TAURUS missile
- 3d RADAR
- ALAKRAN

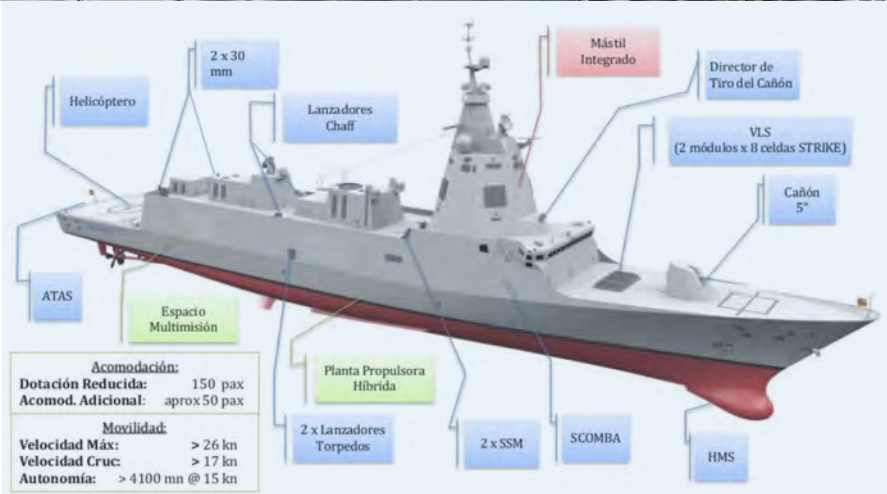






# MORE NAVAL PROJECTS

- S80 PLUS
- FRAGATA F110
- TORRETA – OTO MELARA
- MISSILES: ESSM, SPARROW, METEOR, SPIKE

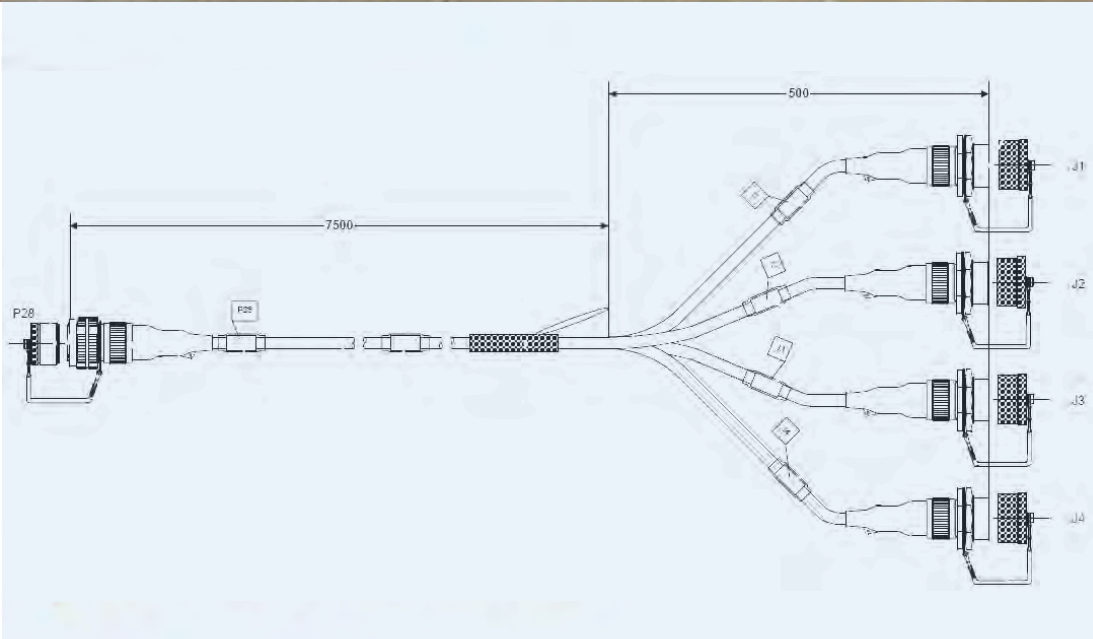






# FIBER OPTIC

- MANPACKS
- Fiber Optic Repair Case
- Router Fiber Optic Converter to Ethernet
- Mp2 Connector



## MIL AERO MAIN CUSTOMERS



**indra**



the power of talent



**Navantia**



**THALES**



**FN HERSTAL**

**TECN****BIT**



**BOEING**



**AIRBUS**

DEFENCE & SPACE

**GENERAL DYNAMICS**

PROJECT EXAMPLES  
**INDUSTRIAL**  
RAILWAY MARKET

• **ALSTOM**

- On-board scanner equipment
- High speed Madrid – Paris / Madrid – Seville / Euromed

• **CAF / ACTREN**

- Waterproof series bogies ATPRD / AVG / AVR
- Retrofit Electric hoses from bogies to boxes S12 / S120.50
- Modernization of S590 diesel engine control decks

**PATENTS TALGO**

- Spanish High Speed - RENFE 070
- High Speed Medina - Mecca
- AVE 350 1st and 2nd Series

**RENFE**

- Convoy of refrigerated containers
- Retrofit, modernization and repair of rolling stock equipment

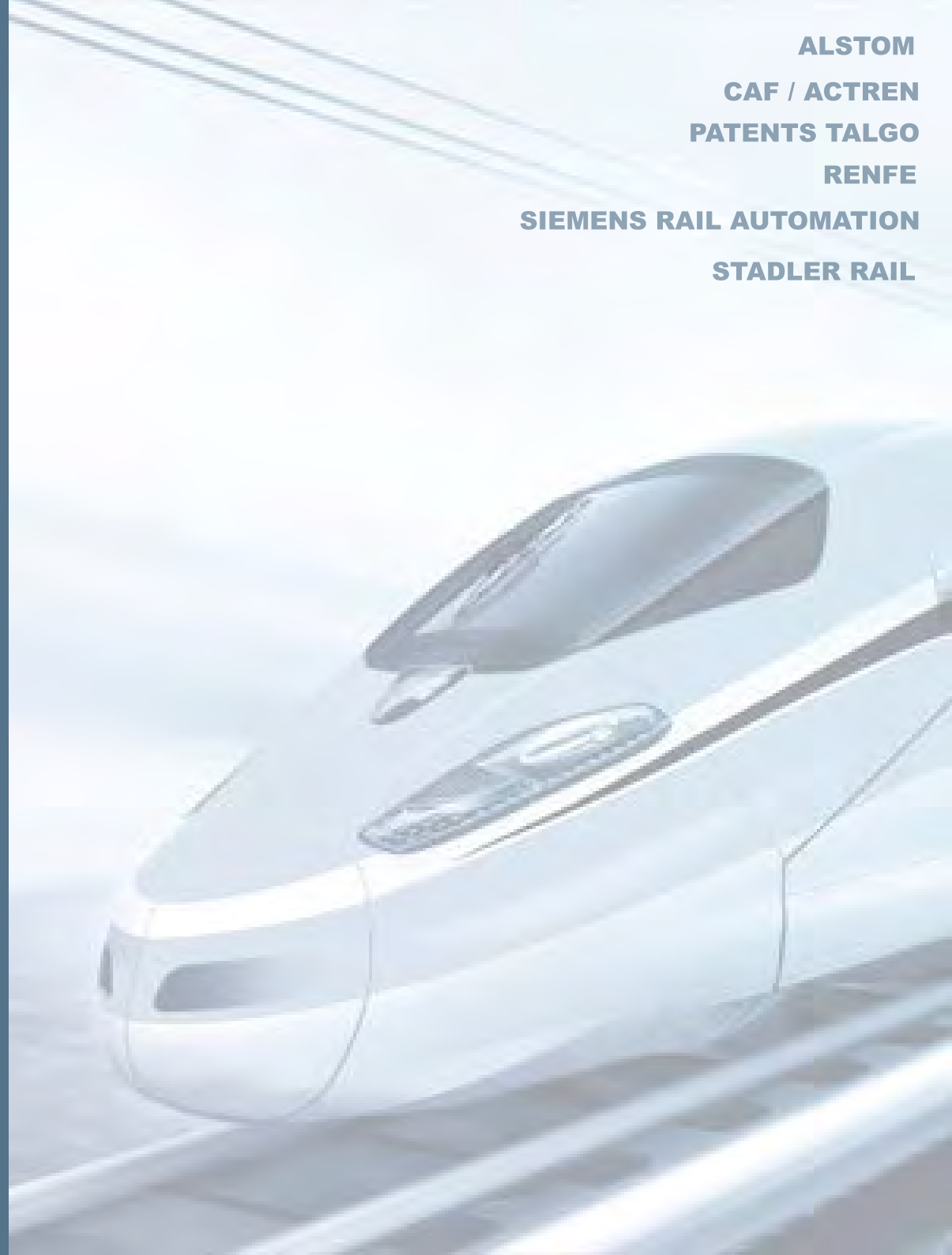
**SIEMENS RAIL AUTOMATION**

- New digital beacon
- High Speed Medina – Mecca

**STADLER RAIL**

- Locomotive Eurodual / U.K. LIGHT / EURO4000
- Locomotive Sali (South America)
- Train Tram FGV

**ALSTOM**  
**CAF / ACTREN**  
**PATENTS TALGO**  
**RENFE**  
**SIEMENS RAIL AUTOMATION**  
**STADLER RAIL**





PROJECT EXAMPLES

# INDUSTRIAL

ENERGY MARKET

- **ELECTRIC CAR**
  - **EV CONNECTORS AND CONNECTING CABLES AVAILABLES IN STOCK**
  - **GAMESA**
  - Supply of connectors for interconnection systems.
  - Manufacture of interconnection harnesses.
- **INGETEAM**
  - Supply connectors for solar inverters.
  - Manufacture of interconnection harnesses and supply electrical vehicle's charging connectors.

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## TELECOM MARKET

- **TVE**
  - Lighting equipment.
  - Powerlock connectors
  - Spare Parts - Power Hoses - Cacom 8 and MIL connectors
  - BELDEN-COAX cable.
- **ANTENA 3 TV**
  - Maintenance of sets.
  - Video coax HDTV connectors (TROMPETER).
  - Patch-cord and pat panel HDTV connectors (TROMPETER).
  - Tools (DMC) for crimping connectors.
  - Coax connectors, Coax cables, Manufacture of coax hoses (AMPHENOL-FCT).
  - XLR Connectors, Turned Subds (AMPHENOL-FCT).
  - BELDEN-COAX cable.





**S.C.P.s.a. SINTERSA**

Together, we connect

[www.sintersa.es](http://www.sintersa.es)

