

# SCP SINTERSA

Together, we connect







# CORPORATE STRUCTURE

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

Our team has **40 years of experience** in the **aerospace, defence, naval, railways & industrial markets**.

SCP Sintersa joins Italian company **ALA** becoming one of the **largest European providers of high-performance systems of electrical interconnection**.

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 defence vehicles and aircraft.



# SCP SINTERSA FACILITIES





## LOCATION & ACTIVITIES

# MADRID

- Distribution & Warehouse I
- Purchasing & Sales
- Engineering & Project Management
- Quality Control
- Connector Assembly
- Harnesses Manufacturing:
- Defence & Aerospace, Railway, Industrial
- Aeronautical production: 1000 m<sup>2</sup>
- Defence production: 1000 m<sup>2</sup>
- Railway production: 500 m<sup>2</sup>
- Main warehouses: 2000 m<sup>2</sup>
- Headquarters: 500 m<sup>2</sup>

**TOTAL: 5000 m<sup>2</sup>**



## LOCATION & ACTIVITIES

# SEVILLE

- Production & Warehouse
- Engineering & Project Management
- Quality Control
- Assembly: San Pablo, Tablada
- Services: Tooling tests
- **TOTAL: 7000 m<sup>2</sup>** (2 production plants)

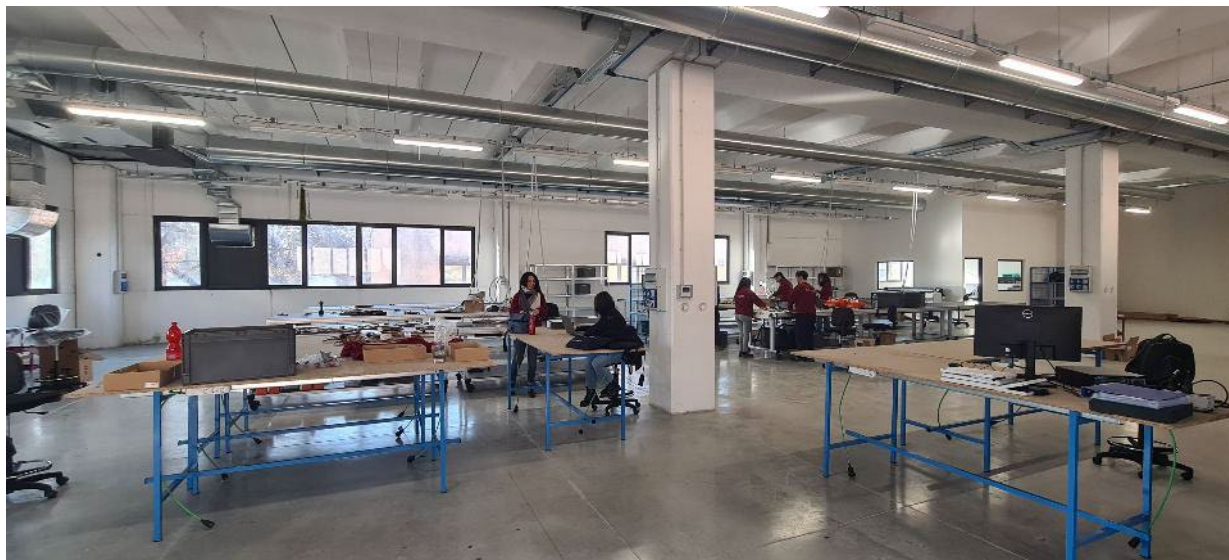


## LOCATION & ACTIVITIES

# SUMIRAGO



- Production & Warehouse
- Engineering & Project Management
- Quality Control
- Services: Tooling tests
- **TOTAL: 1000 m<sup>2</sup>**





# OTHER

## LOCATION & ACTIVITIES

**BARCELONA**

Sales Office

**PORTUGAL**

Subsidiary (SINTERSA Portugal)

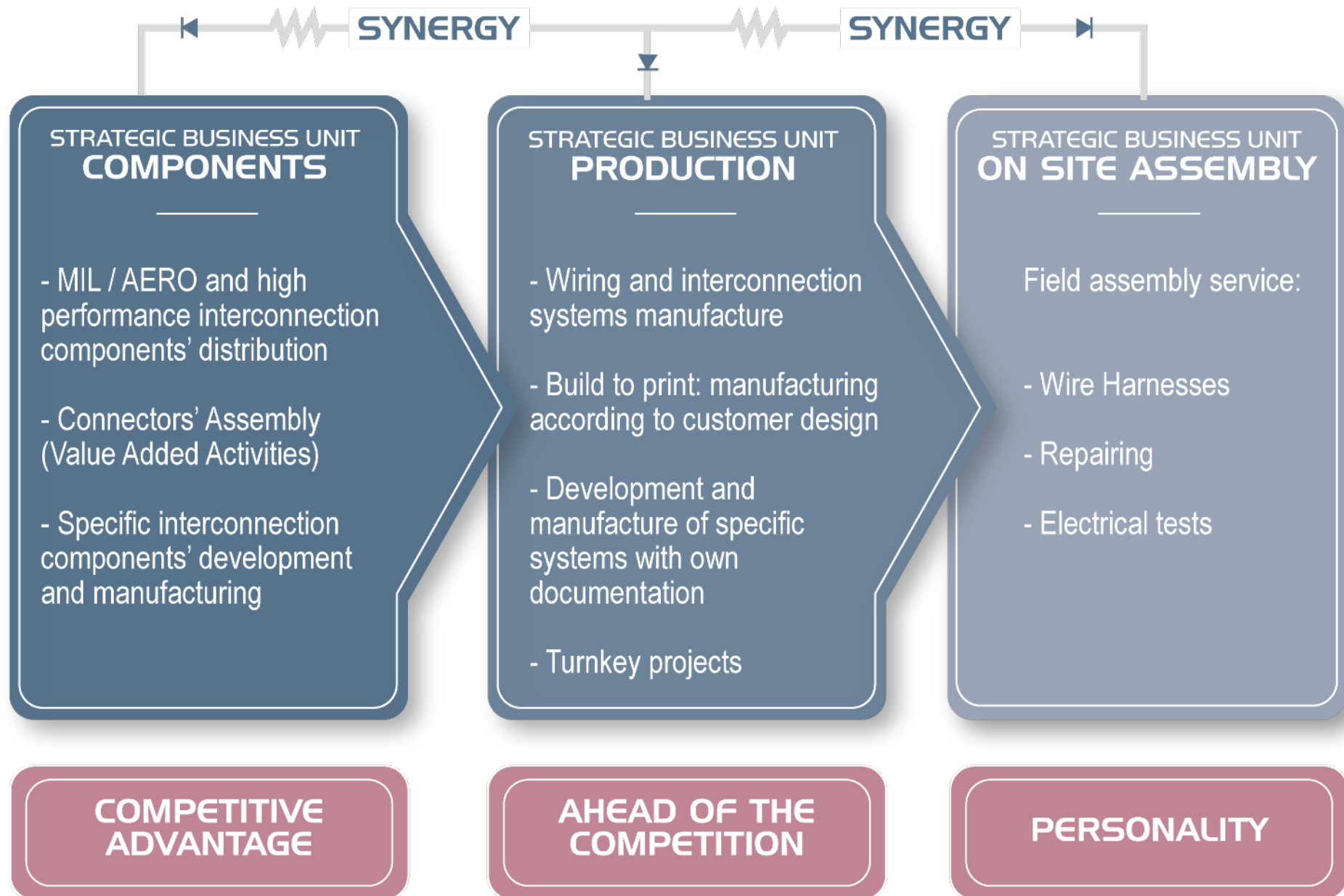


SINTERSA Portugal



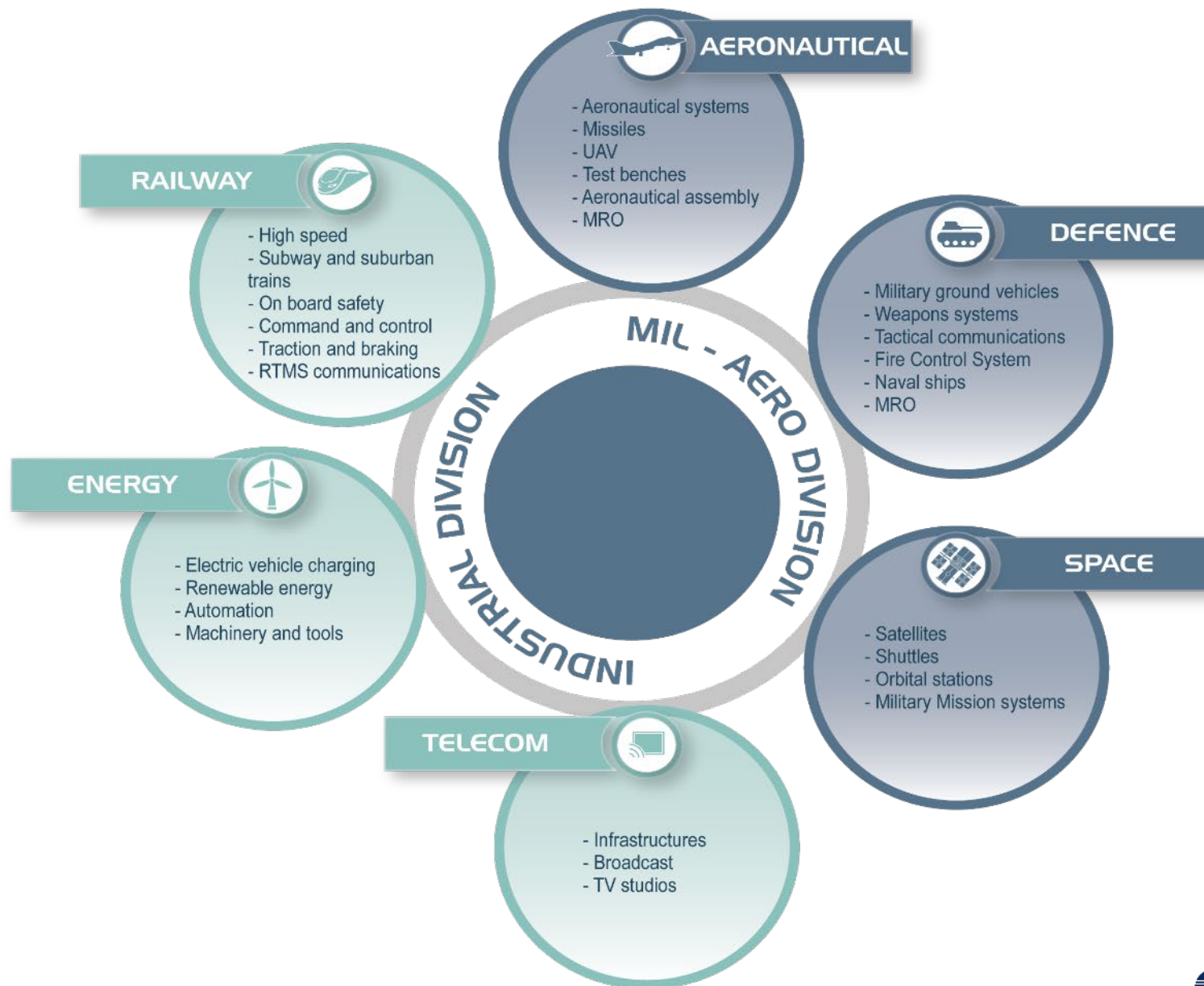
# STRATEGIC BUSINESS UNITS

# STRATEGIC BUSINESS UNITS





# MARKETS





# STRATEGIC BUSINESS UNIT COMPONENTS

# COMPONENTS

## CONNECTORS' ASSEMBLY

# EXPRESS DELIVERY SERVICE



SCP  
SCPB

### MIL-C-5015

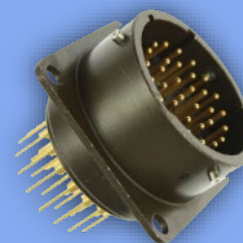
Threaded – SCP/MS  
Bayonet – SCPB — VG95234



SCPT

### MIL-C-26482

SCPT – VG95328



SCPTV

### MIL-DTL-38999

Connectors SCPTV



CIR

### ITT VEAM CIR

MIL-C-5015 – Bayonet  
VG95234





# COMPONENTS

## PRODUCTS FOR DISTRIBUTION



More than 35 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



# STRATEGIC BUSINESS UNIT PRODUCTION



# MANUFACTURE & INTEGRATION

## WIRE HARNESS DESIGN & MANUFACTURE

### AERONAUTICAL HARNESS

- **Airbus Defence & 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.
- Certified to develop **manufacturing** routes.

#### QUALITY GUARANTEED

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



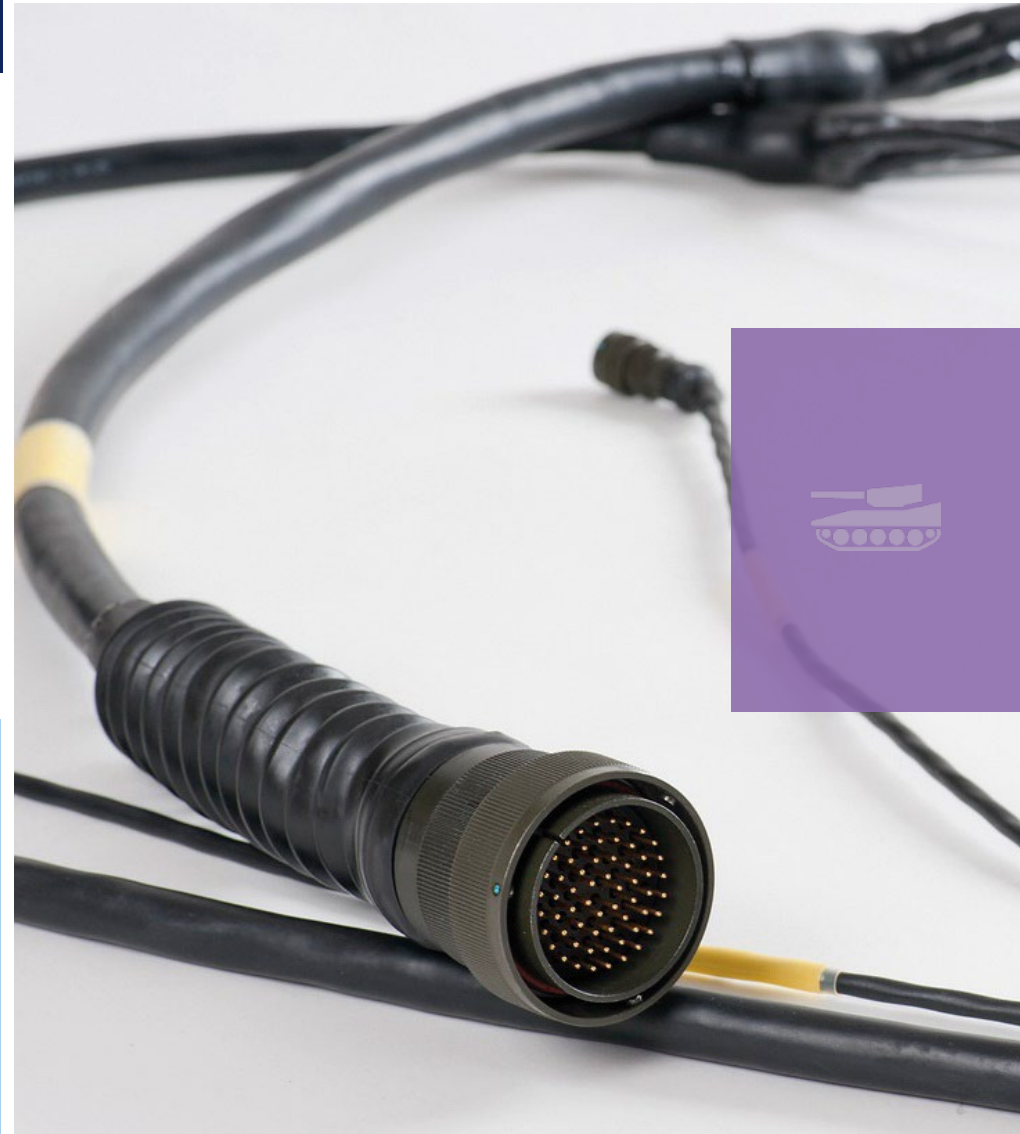
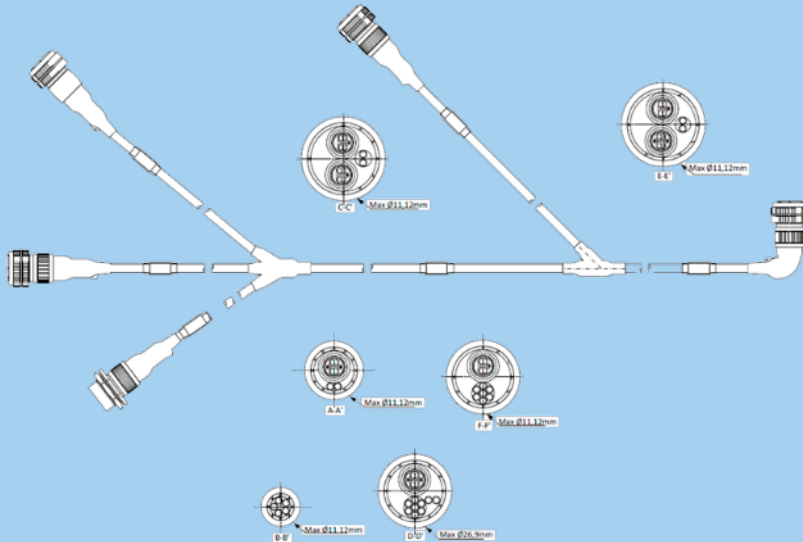


# MANUFACTURE & INTEGRATION

## WIRE HARNESS DESIGN & MANUFACTURE

### DEFENCE

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

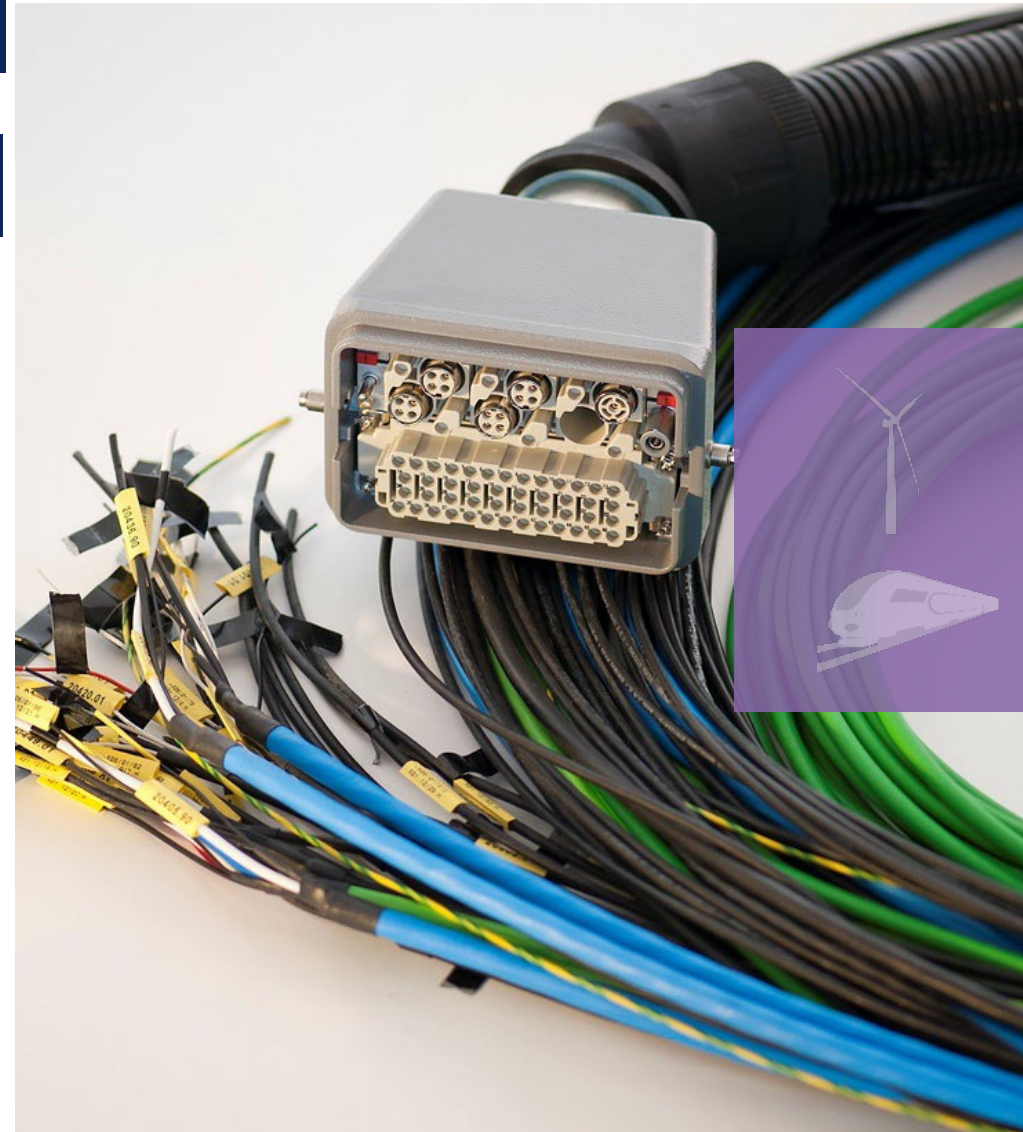


# MANUFACTURE & INTEGRATION

## WIRE HARNESS DESIGN & MANUFACTURE

### INDUSTRIAL & RAILWAY WIRE HARNESS

- Special wiring for industrial applications
- Coaxial communication wiring.
- Assembly of coax, triax and quadrx cables.
- Power cable harnesses.
- EMI / RFI shielding cable.
- Electrical boxes and watertight decks.
- Rugged fibre optic solution.
- 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 signalling and rail safety.



# MANUFACTURE & INTEGRATION

## FIBER OPTIC HARNESS DESIGN & MANUFACTURE

### LARGEST AND MOST DIVERSIFIED PRODUCT PORTFOLIO

- Singlemode
- Multimode and Hybrid fiber cable
- High density connectors
- Physical and Expanded beam contacts

### PRODUCTS

- MIL-TAC solutions for Aerospace and Defence
- Fibre / copper hybrid assemblies
- Custom designs
- Wide range of deployable cable reels
  - Pigtail Cables (inside the box)
  - Ruggedized Transceiver and media converters



### ADVANTAGES

- Large stock of fiber optic cables: from 1 to 48 fibres
- Fast delivery service
- Exhaustive quality control processes
- Low rejection rates

### CONNECTORS ASSEMBLY

- |                 |             |
|-----------------|-------------|
| • D38999-III    | • HMA       |
| • MIL-STD-26482 | • CTOS      |
| • MIL-5015      | • MPO       |
| • Eurocom II    | • MTP FIELD |





# 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

### DEFENCE

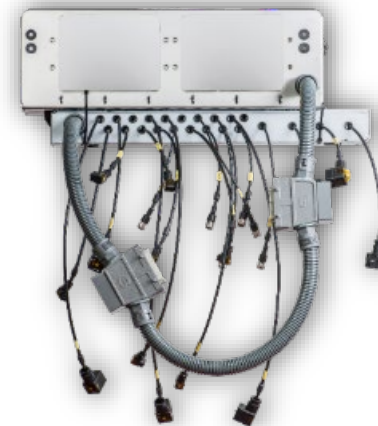
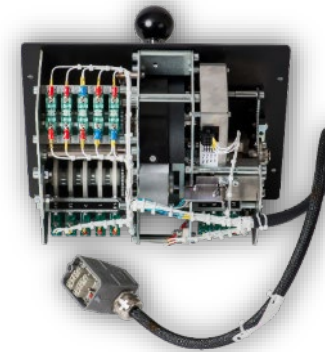
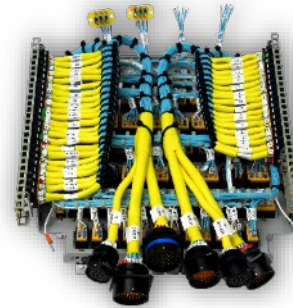
- Communication racks
- Distribution box SIAC 155/52

### 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.

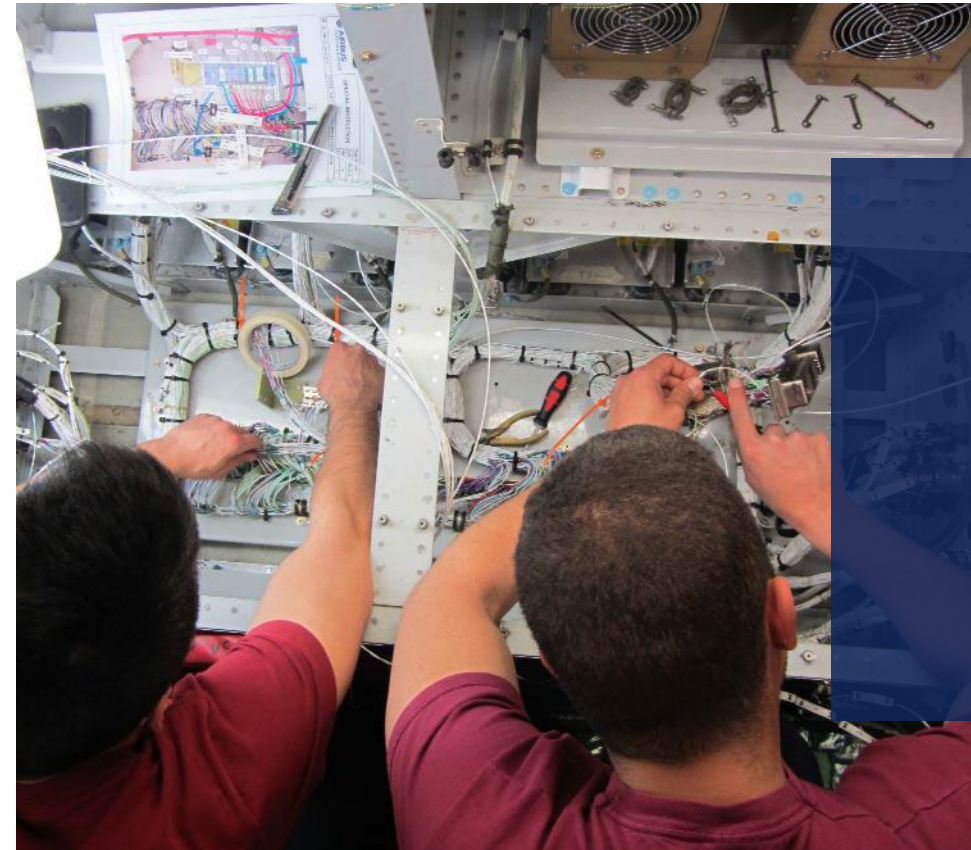
## DEFENCE ASSEMBLY

DEFENCE VEHICLES, S-80 SUBMARINE

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

### CAPABILITY

- 95 field operators.
- Assembly and manufacture capacity: 170.000 h. / year.







# CAPABILITIES

CRIMPING TOOLS

LASER MARKING

ELECTRICAL  
TESTING

# CAPABILITIES

## PURCHASING:

- Distribution and production components synergy.
- Single source for negotiation of prices and deadlines.
- Financial capability for purchasing and project development.
- Stock planning to satisfy our clients and market demands.
- Strong relationship with the main international manufacturers regarding interconnection



# CAPABILITIES

## ENGINEERING:

### PRE-SALES CONSULTING CAPABILITIES

- Client specifications analytical capability to carry out economic proposals for cable manufacturing.
- Economic and technical offers for more than 600 clients per year.
- Wiring and connectors technical product advice.

### WIRING DESIGN ENGINEERING

- Advanced design tools such as MS Visio and TE Harnware allow custom wiring designs or documentation of manufacturing customer needs.
- Wiring designs using CAD drafting tools such as MS Visio, Harnware, CATIA V5 and Draftsight, to supplement design engineering capabilities when customers require.
- Flattening of 3D wire harnesses for scale templates using CATIA V5, CATIA 3D EXPERIENCE and IGE-XAO.

### INDUSTRIALIZATION ENGINEERING

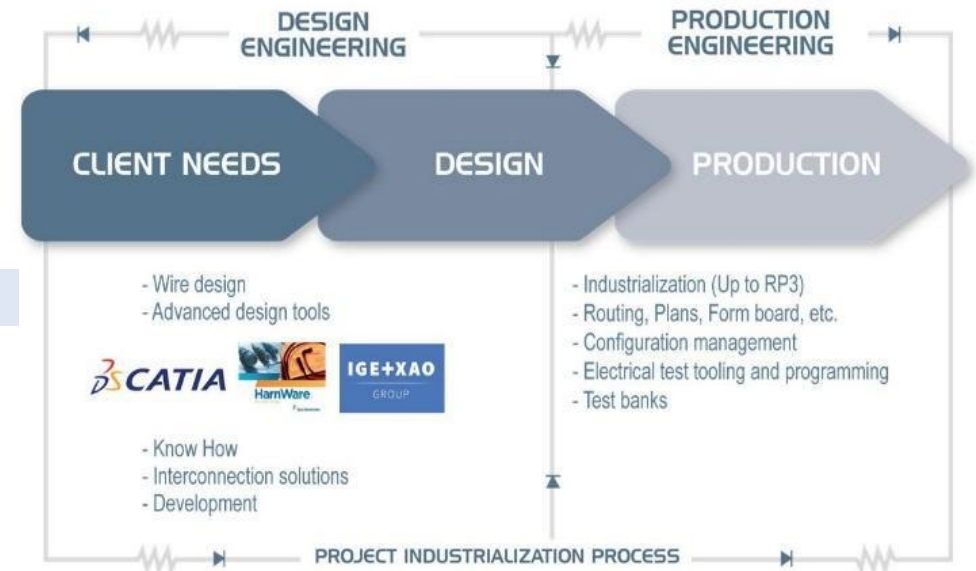
- Technical documentation for cable manufacturing execution.
- Wiring diagrams, material lists, formboards, checklists, etc.
- Electrical manufacturing routes fulfillment.

### DELEGATED CUSTOMER ENGINEERING

- Sintorsa is qualified by Airbus Defence and Space, among others, to carry out aeronautical routes and RP3 customer incidents resolutions.

### MICROGRAPHICS TEST

- Micrographic tests on the crimping of machined and stamped pins. Optimal crimping guaranteed by combining the type of contact and tool used. Cross-sectional analysis applied to the crimped contact, and microscopic visualization of the arrangement and state of the conductor's threads.
- It runs automatic reports on the status and disposition of the cable threads in order to verify their uniform dispersion and correct deformation.



# CAPABILITIES

## QUALITY:

- UNE EN ISO9001:2015. — Quality Management System
- EN9100:2018. — Aerospace and Defence Requirements
- PECAL-AQAP2110, 4ª ED. — Military Requirements
- NATO CAGE — 267BB (SCP) / 1199B (Sintersa)
- PART 145 — Aeronautical Assembly
- AERONAUTICAL QUALITY MANAGEMENT SYSTEM SPANISH DEPARTMENT OF DEFENCE CERTIFICATION — Nº 9170
- QUALITY INSPECTION DELEGATION IN ELECTRICAL FIELD — Airbus D&S
- PRODUCTION DELEGATION ENGINEERING— Airbus D&S
- IPC — IPC/WHMA-A-620 / IPC-A-610
- QUALITY COMPLIANCE — General Dynamics SBS
- QUALITY COMPLIANCE — Siemens Rail Automation & Talgo Licenses





# CAPABILITIES

## PRODUCTION:

### Electric testing machines, 16.000 hours/year:

- Thermal Transfer Tyco T3212, 4 Uds., 7000 hours/year.
- Hot stamp, 1 unit, 1764 hours/year.
- Laser Marking, 4 units, 7000 hours/year.
- Dot-matrix, 3 units, 5300 hours/year.
- Weetech W444, 4 units.
- Weetech W 629, 1 unit.
- Weetech W 434, 1 unit.
- Weetech W 424-3, 3 units.
- Continuity.
- Short-circuit.
- High Voltage.
- Dielectric Strength.
- Components Testing.
- Brading Test,...



### ID Solutions & Printers, 21.064 hours/year:

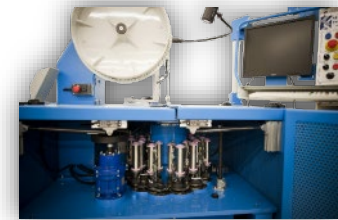
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- Hot stamp, 1 unit, 1764 hours/year.
- Laser Marking, 4 units, 7000 hours/year.
- Dot-matrix, 3 units, 5300 hours/year.

### Heat Shrink System, 7000 hours/year:

- Mecalbi STCS-LC
- Memmert UFE400
- Vismara Associate BOG0F2
- Pol-Eko Aparatura SLW 115 STD

### Wire Brading, 10.564 hours/year:

- Allows metallic wire steel mesh bundles for EMI protection according the engineering standards optimized for each client. It achieves optimal performance between maximum electromagnetic protection and minimum weight, compared to traditional tubular mesh.
- Spiraltex 24 drums overbraiding, 3 units, 5300 hours/year.
- Spiraltex 32 drums overbraiding, 2 units, 3500 hours/year.
- Spiraltex 48 drums overbraiding, 1 unit, 1764 hours/year.



### Wire Laser Marking, 7.056 hours/year:

- Spectrum Technologies C50-300, 1 unit, 1764 hours/year.
- Laselec MRO 200, 1 unit, 1764 hours/year.
- Laselec Ulys Modena C60, 1 unit, 1764 hours/year.
- Laselec Ulys Modena 220SL, 1 unit, 1764 hours/year.



### Metallographic cut, 1 unit, 1764 hours/year:

- Komax Smartetch, 1 unit.
- Controlled traction tool (destructive test), DMC NPT-250C ALPHATRON, 1Ud.



### Coax Stripping, 1 unit, 1764 hours/year:

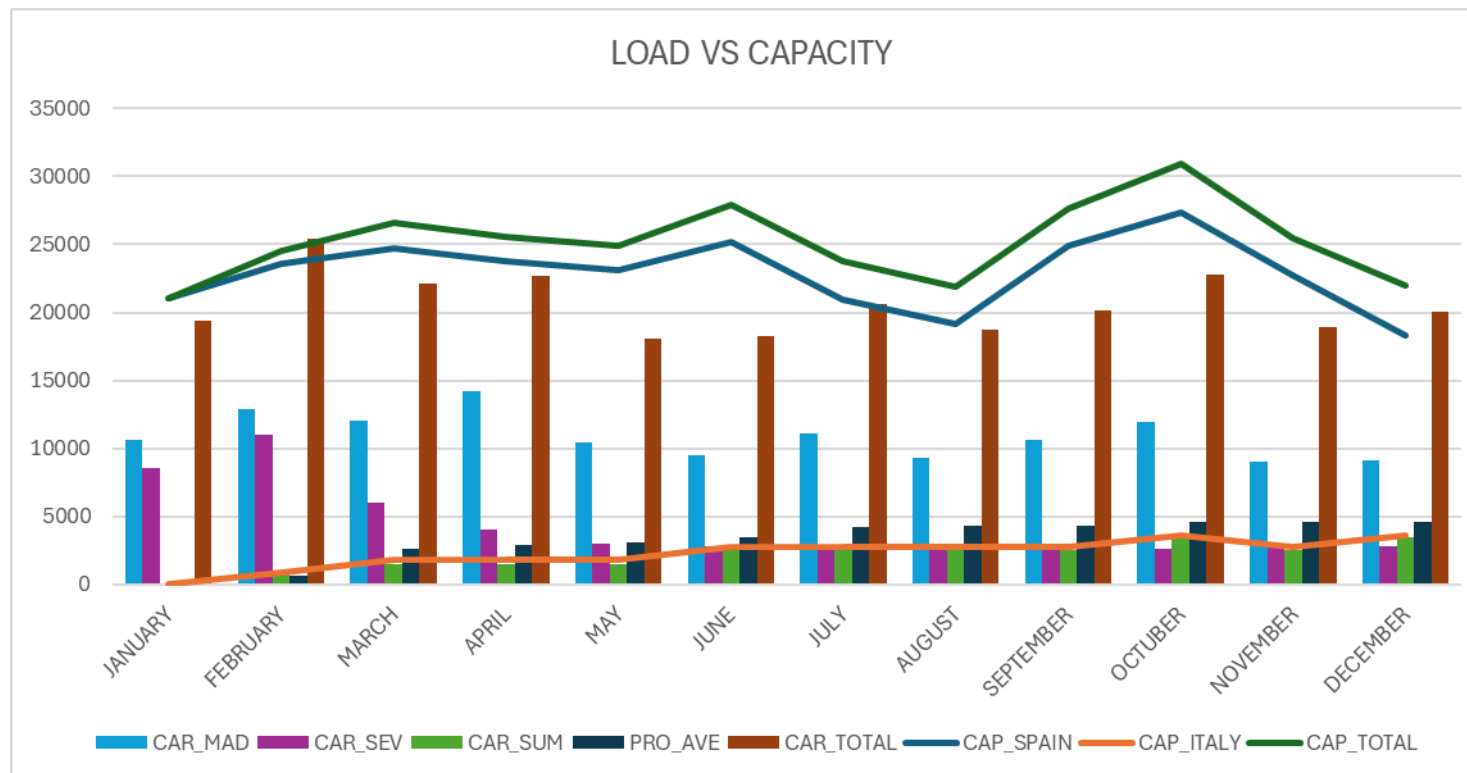
- Schleuniger Coaxstrip 5500, 1 unit.



# CAPABILITIES

## LOAD OF CAPACITY:

- +300.000 hrs of capacity.
- +180 employees in production.
- Ramp up capabilities in progress in all production plants.
- Free production area in Sumirago.



Updated 3/02/25.

# MIL-AERO VIDEO







# SCP SINTERSA

ALA Group

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

