

**SINTERSA**

# Assembly

“On site” installation & services



# MECHANICAL TASKS

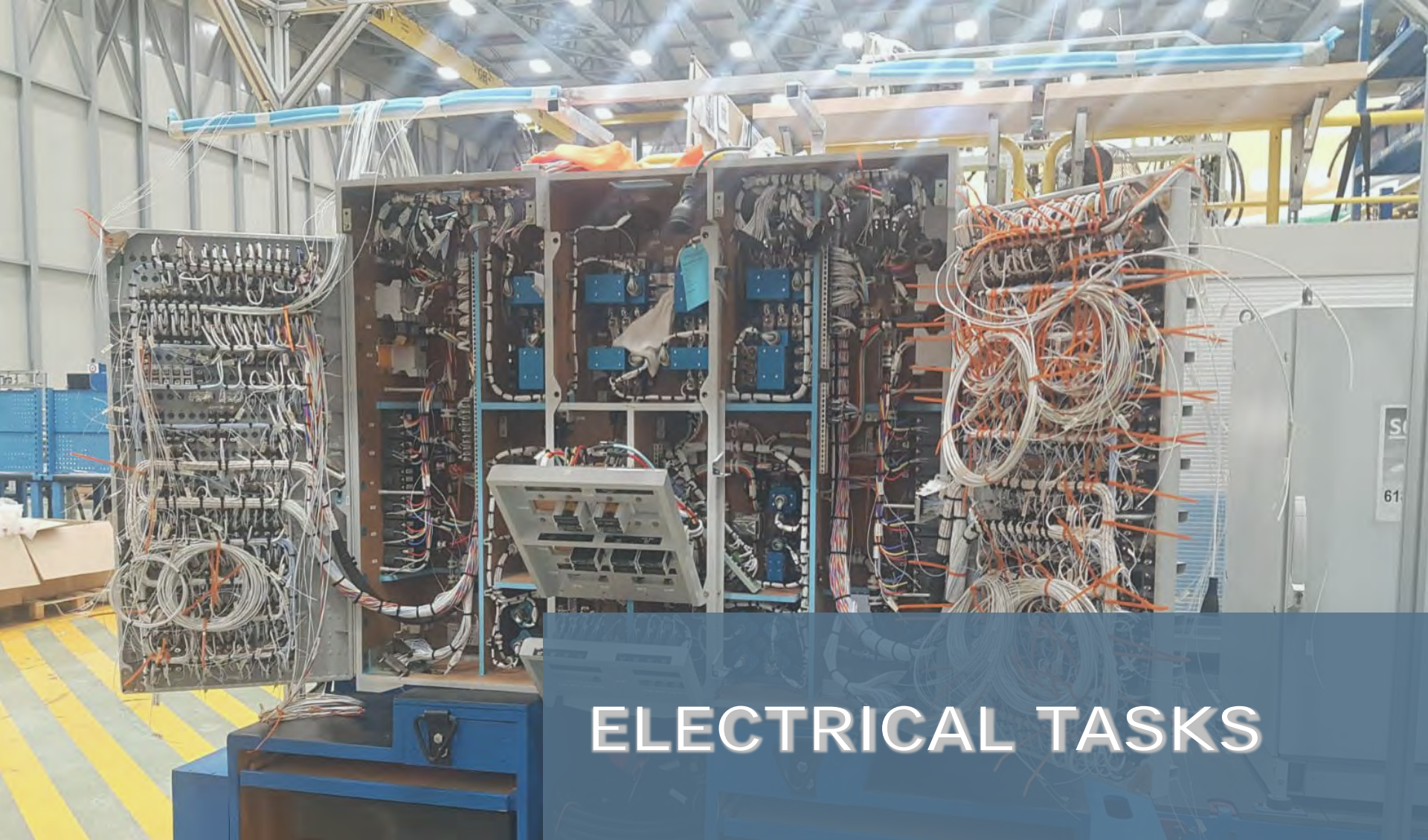


# MECHANICAL TASKS

- Cleaning of surfaces.
- Positioning (laser, 3D lenses...).
- Drilling and riveting.
- Composite materials.
- Surface protection.
- Structural changes.
- Tests; bonding, grounding.
- Installation of supports for routing, plates, reinforcement, equipment.





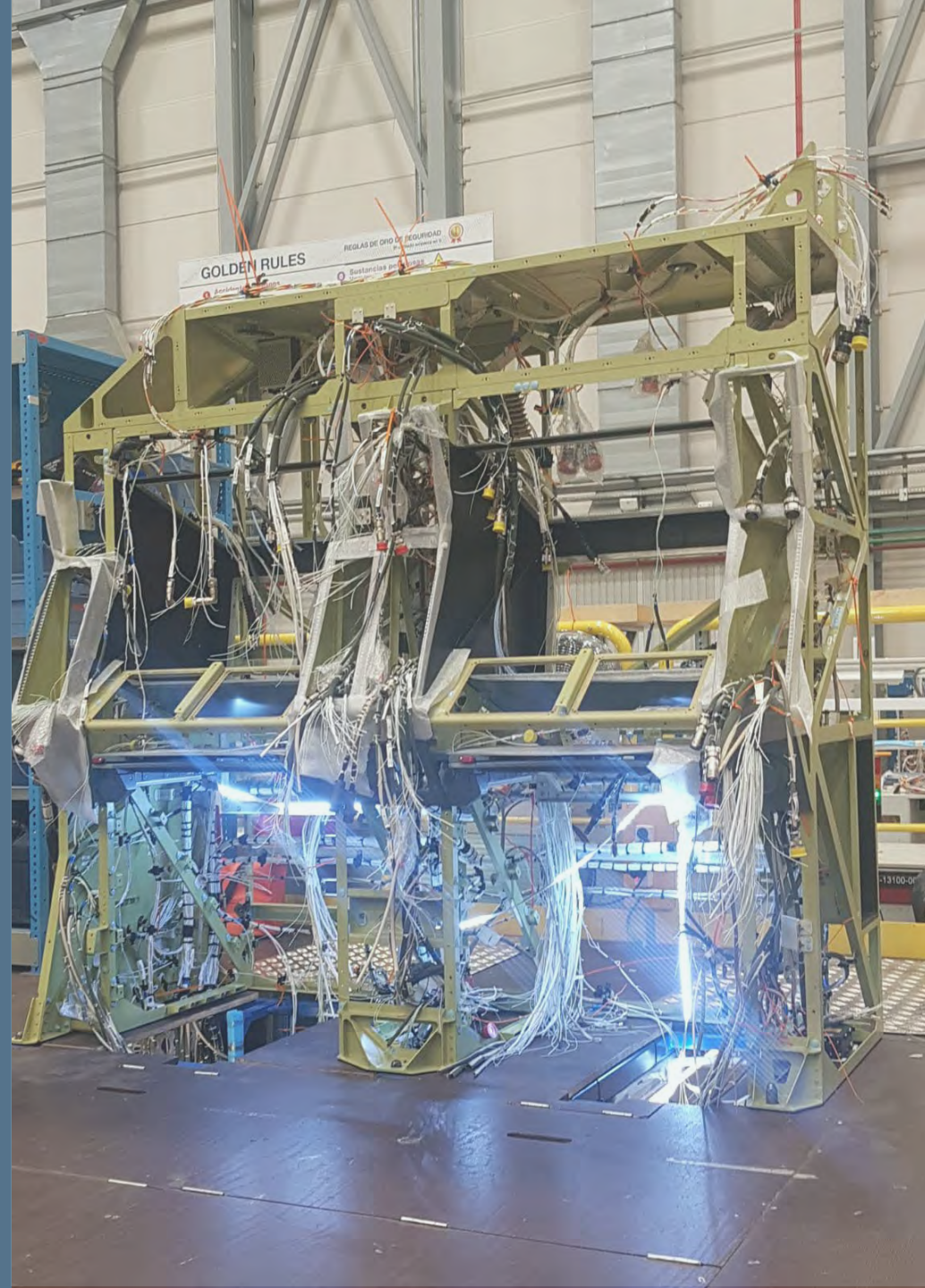


# ELECTRICAL TASKS

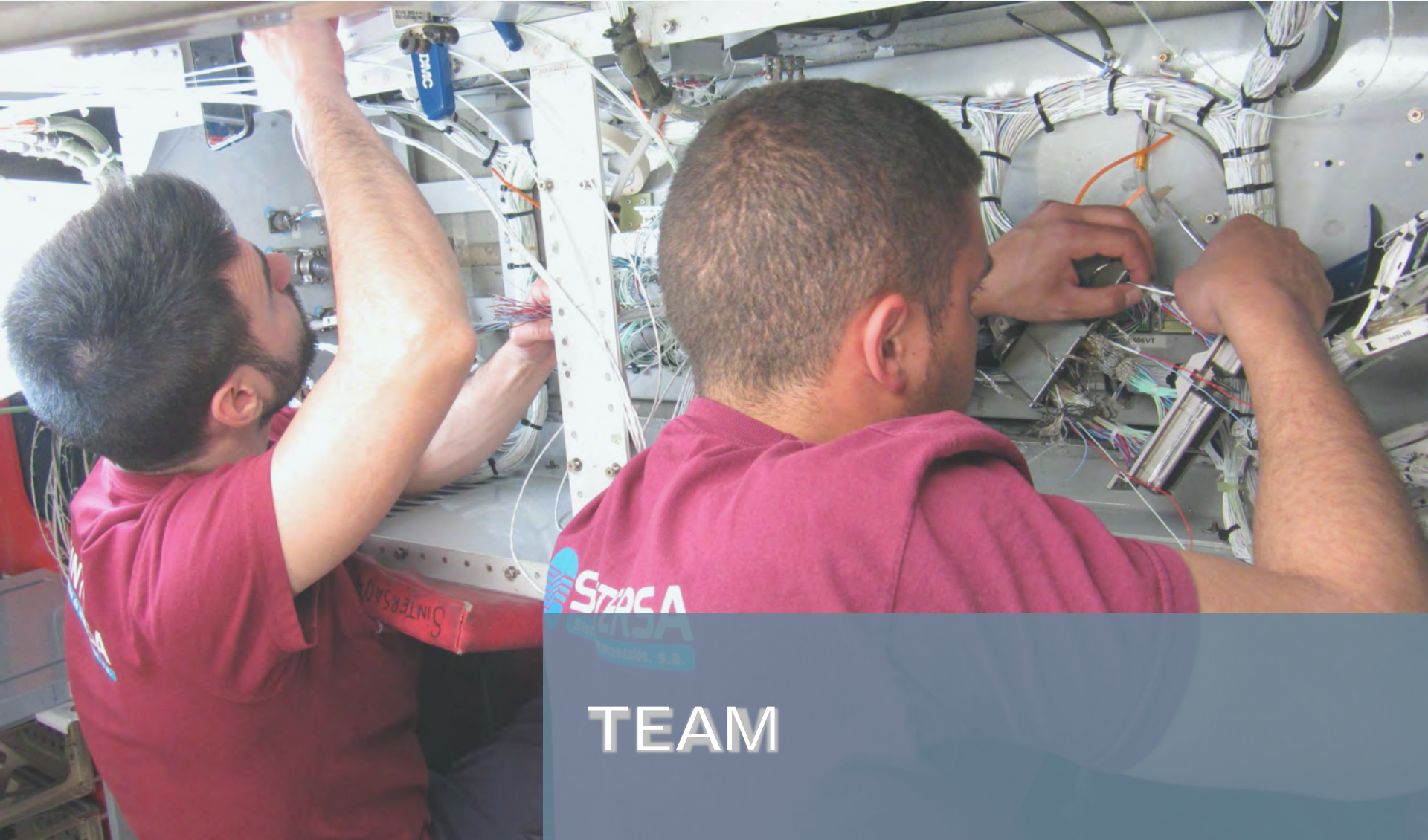


# ELECTRICAL TASKS

- Equipment disassembly.
- Cabling routing; power, navigation, RF, fiber optics...
- Manufacturing of connectors.
- Equipment installation.
- “Trouble-shooting”.
- Repairs.
- Electrical cabinets.
- Tests; continuity, insulation, grounding, bonding...







# TEAM



## TEAM

- More than 70 professionals.
- Location; Madrid, Seville.
- Expertise in:
  - Aeronautical.
  - Naval.
  - Railway.
  - Defense.



# TEAM

- Working in environments such as:
  - High platforms.
  - Confined spaces.
  - Explosive environments.
- Special process certifications:
  - Stripping and crimping wires.
  - Soldering.
  - Harness overbraiding.
  - Application of sealant.







# ONBOARD



# MANUFACTURING & INTEGRATION

EXPERT EMPLOYEES IN  
AIRBUS PRODUCT

- Airbus Defense and Space: A330MRTT, A400M & P3 ORION.
- Airbus Helicopters: Ec-135 & Tiger.





# A330 MRTT

## CABLES AND AERONAUTIC EQUIPMENT DISASSEMBLY

- First step to transform into tanker plane.
- Removal of wiring routes and protection of harnesses to avoid damage in the next steps of the F.A.L.
- Disassembly and conservation of aeronautic equipment.



## SUPPORT INSTALLATION

- Support Assembly and “brackets” for the future installation of cable harness, needed for the new refueling systems in flight.
- Certified employees in “assembly of aeronautic structures” and “sealant applications I+D-P-146”.
- Installation of reinforcements and structural repairs.





# A330 MRTT

## ELECTRIC INSTALLATION

- For MRTT airplane: 160 harnesses both conversion and green plane.
- Ending of more than 150 connectors and connection strips of those cables.
- Certified employees in different regulations of peeling and stapling: I+D-P-193 y I+D-P-216.



## TESTING

Testing of:

- Continuity, isolation, “bonding” and “grounding”.
- Support the client’s team of clients functional tests.
- “Troubleshooting” for fault support.



# A400M

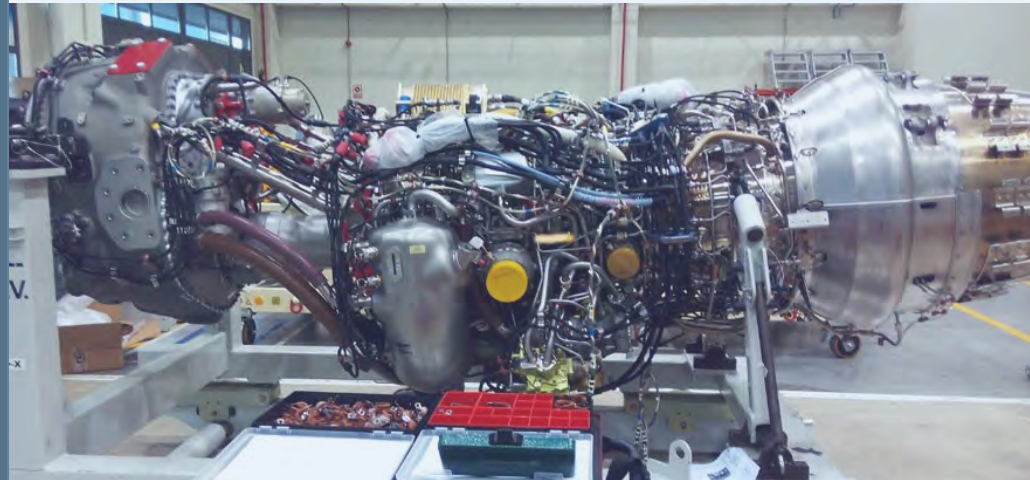
## A400M RETROFIT

Support of different tasks of “Service Bulletins” of A400M plane:

- Uninstalling and Installing of panels.
- Superficial protection added to different components.
- Different airplane components replacement, such as wing-tips.
- Different engine components replacement.
- Oxygen pipeline installations.
- Replacement and manufacturing of cables.
- Manufacture of different mechanical and electrical HNC's.

## A400M ENGINES

- ATA87: harness routing, connection and continuity structural measures at A400M engines.
- ATA54: Assembly of subassemblies (AIRWALLS) doing drilling and riveting work.
- Electrical repair work at engine installed harnesses and pieces manufactured by CESA installed at the A400M.
- Installation and repairing of cables of FTI (coaxials, thermocouples...)





## C-101

### RETROFIT OF ANALOG TO DIGITAL OF NAVIGATION AND COMMUNICATIONS SYSTEMS, IN A HOUSE UNIT C-101.

- Removal of a large amount of obsolete wiring.
- Performing mechanical tests on the fuselage for the new installation.
- Installation of all the wiring and equipment for digital control, including EFI's screens in the cabin.





# OTHER ACTIVITIES

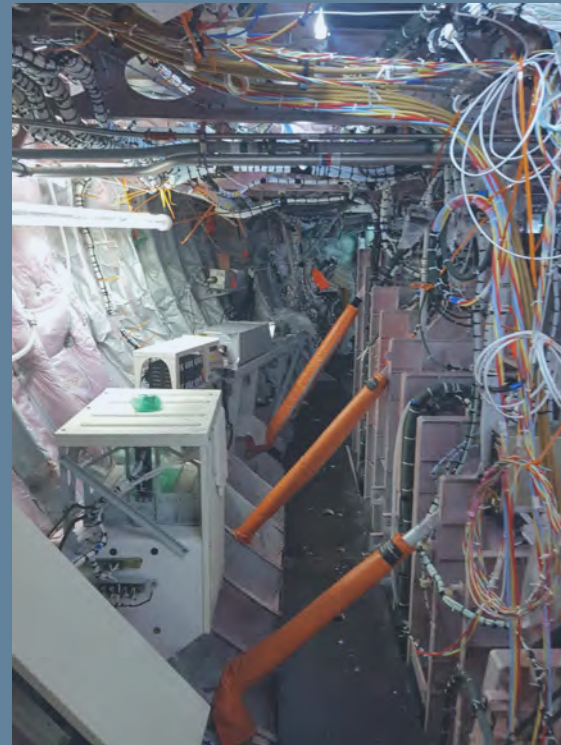


# OTHER ASSEMBLY ACTIVITIES

- Permanent and temporary harness installations.
- We do all kinds of activities, according to our client's necessities:
  - \* Interconnections.
  - \* Manufacture of new wiring.
  - \* Encapsulate non-operating systems.

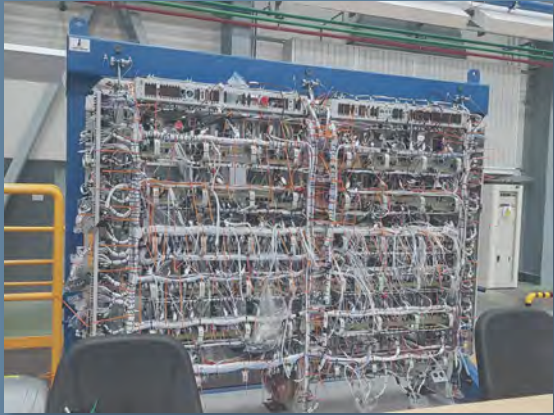


# ELECTRICAL INSTALLATIONS EXAMPLES

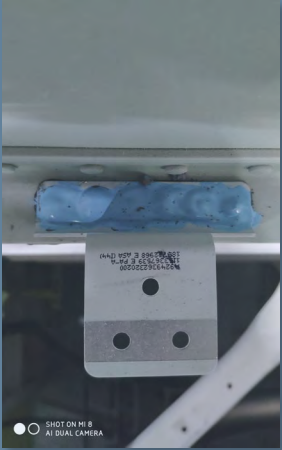




# ELECTRICAL INSTALLATIONS EXAMPLES



# MECHANICAL INSTALLATIONS EXAMPLES



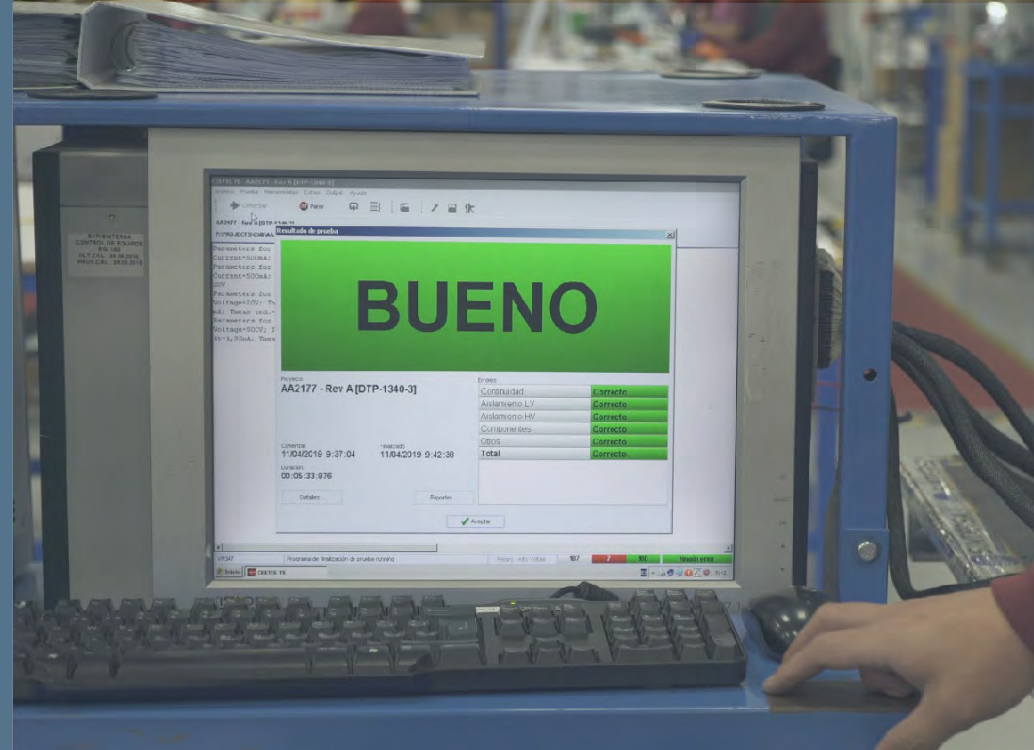




# ELECTRIC TESTS

# ELECTRIC TEST

- We perform different tests to confirm the correct functioning of the facilities:
  - Continuity
  - Isolation
  - Bonding
  - Grounding
  - Radiofrequency
  - Fiber Optic







# FLIGHT LINE SUPPORT



# FLIGHT LINE SUPPORT

- Trained employees at T.M.A, which allow us to give support in different tasks at flight line support.
- Troubleshooting.
- Tasks associated with the different revisions that are carried out in aircraft; daily, weekly, A-checks, etc.

# AERONAUTIC ASSEMBLY

A400 M - A330 MRTT - C101 – AB212

- Supported.
- Electrical Integration.
- Testing ( isolation, bonding, grounding...).
- Operational tests.
- Electric and mechanic repair Jobs.
- Uninstallation and installation of panels, pipelines...





# DEFENSE ASSEMBLY

- Mechanical design and assembly.
- Equipment Redistribution.
- Wiring design and installation.
- Continuity manual tests.



# CAPACITY

- Assembly and manufacturing capacity: >120.000 h. / year.
- Specialized working team.



# MAINTENANCE

- Flight line support.
- Preventive and corrective maintenance.

Thanks to our extensive experience of more than 30 years in the market and our experienced staff, we offer customized solutions to the needs of each client.

We provide added value to our work, we guarantee the solvency of the process and the quality of our products and services.







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