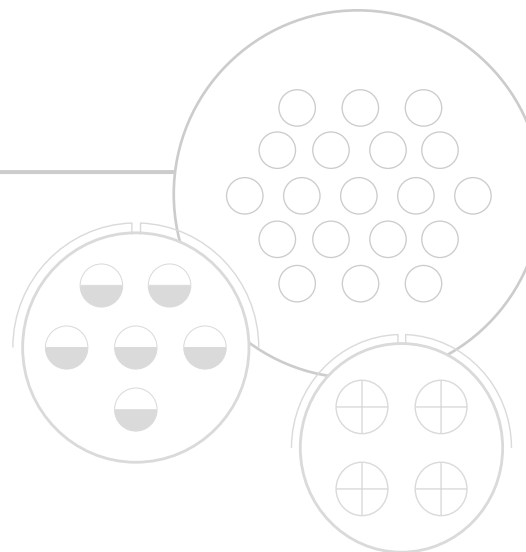




RAILWAY

ELECTRICAL INTERCONNECTION
SOLUTIONS

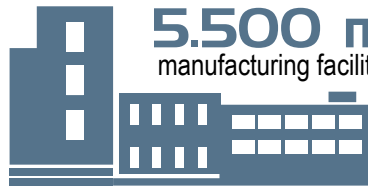


CAPACITIES

More than
30 years
of experience



5.500 m²
manufacturing facilities



More than
250
employees.

ENGINEERING | DESIGN AND DEVELOPMENT | MANUFACTURING | ON-BOARD ASSEMBLY



CRIMPING TOOLS



LASER MARKING



ELECTRICAL TESTING



- ▶ DESIGN AND DEVELOPMENT OF ELECTRICAL INTERCONNECTION SOLUTIONS.
- ▶ MANUFACTURE OF ELECTROMECHANICAL WIRING AND SUB-ASSEMBLIES.
- ▶ OVERHAUL, MODERNIZATION AND RAILWAY MAINTENANCE.

MAIN CUSTOMERS

ALSTOM

BOMBARDIER

CAF

CS

HITACHI

renfe

SIEMENS

STADLER

Talgo

COMPONENTS



MAIN ACTIVITIES

DESIGN and MANUFACTURING of electrical / electronic systems and components
for **PROFESSIONAL RAILWAY INTERCONNECTIONS**.

SOME PROJECTS



TALGO

AVE RENFE 070
L.A. Metro - USA
High-Speed Train Medina - Mecca
Hybrid train
AVE 350 Series I and II



SIEMENS RAIL AUTOMATION

New ASFA Digital Balise
LAV Ankara-Konya.
Signaling systems in the Bosforos - Marmaray tunnel
High-Speed Train Medina - Mecca
Railway signalling and control systems



RENFE

Refrigerated container convoy
Madrid mountain train modernization
Retrofit, modernization, and repair of rolling equipment



STADLER RAIL

Eurodual Locomotive
U.K. LIGHT Locomotive
EURO 4000 Locomotive
Sali Locomotive
FGV Tram



CAF / ACTREN

Waterproofing of ATPRD/AVGL/AVR Bogies
Retrofit of S120-Bogie power hose
Modernization of S598 diesel engine control harnesses



ALSTOM

On-board scanner equipment
High-Speed Madrid - Paris
AVE Madrid - Seville
AVE Euromed

SOLUTIONS AND ENGINEERING



MANUFACTURING

- Power, control and communications electrical harnesses.
- Maintenance workshop power hoses.
- Traction, braking, and predetermined speed Master Controllers.
- Communication wiring for railway signalling and safety.
- Bonding leads.
- Repair and calibration of Crimping tools.



COMPONENTS

- High-reliability electrical connectors.
- Thermal and mechanical protection sleeves.
- Position LED headlamps.
- DC power contactors.
- Professional insertion, extraction and crimping tools.
- Identification and labelling systems.
- UIC (541-552-568) connectors.
- Zero halogens, low smoke, self-extinguishing cables.



INTEGRATION

- Completed driver desks.
- Illuminated indicator panels.
- Forward LED positioning lamps.
- Driver's bench actioning tools.
- Bench lighting tools.
- Dead man safety device components.
- Electrical wiring modernization.
- Electrical testing.



QUALITY SYSTEM

UNE-EN ISO 9001 — Quality Management System
UNE-EN 9100 — Aerospace and Defence Requirements
AQAP/PECAL 2110 — Military Requirements
NATO CAGE — 267BB (SCP) / 1199B (Sintersa)
IPC — IPC/WHMA-A-620 / IPC-A-610



EUROPEAN REGIONAL DEVELOPMENT FUND



EUROPEAN UNION A WAY TO MAKE EUROPE



PARTNERSHIPS



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