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Our Presentation



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- About us
- () Elettromar in the world
- Headquarters and operating units
- Our history
- Our values
- Fields of activity
- Services and projects development
- Elettromar Group: people and figures
- Business strategy
- Fields of activity details
- Next steps



ABOUT US

Elettromar is an engineering and construction company that proposes turn-key solutions aimed at the optimization Customer's productive processes through the realization of integrated industrial process and product automation systems.

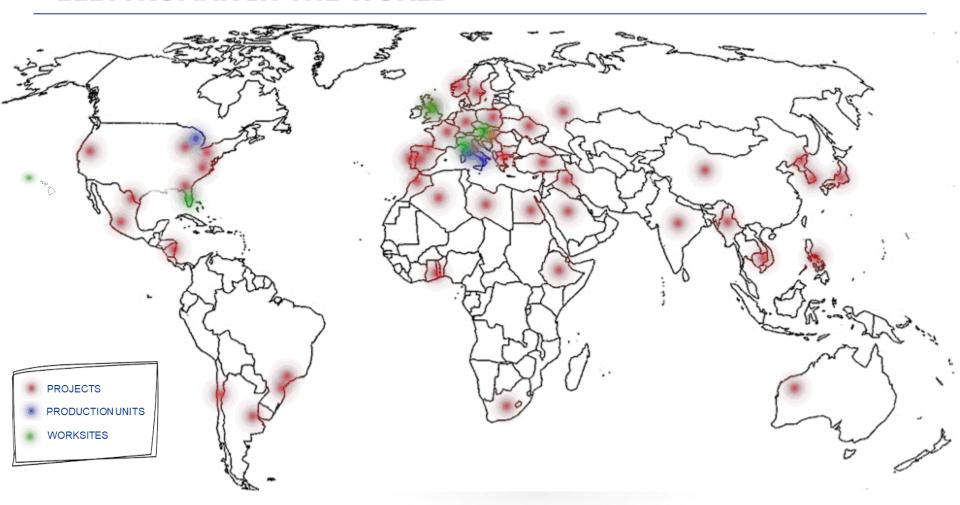
Born in 1981 in Follonica (GR), Elettromar has developed hundreds of projects in different fields, from steel to energy, from marine to railway, from chemical to paper industry.

Thanks to its around the world presence, it is able to offer customised solutions and complete assistance during all phases of project development.





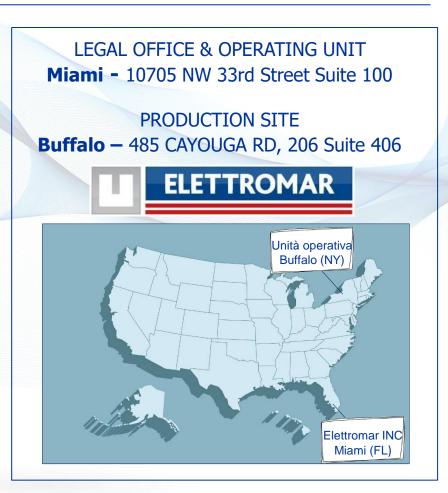
ELETTROMAR IN THE WORLD





HEADQUARTERS AND OPERATING UNITS







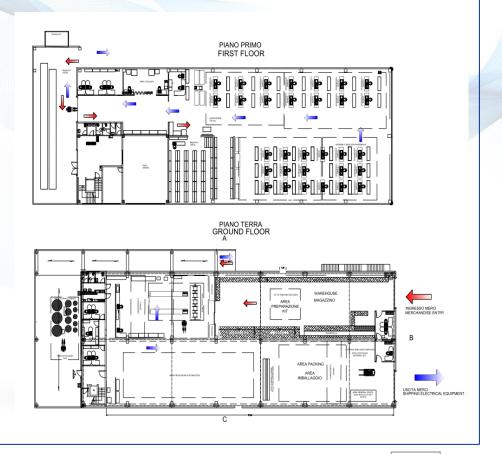
PRODUCTION AND LOGISTIC UNIT

Follonica (GR)

Via del Sugheraio, 161









OPERATING AND LOGISTIC UNITS

Piombino



STEEL

Pistoia



RAILWAYS

Viareggio



MARINE

Firenze



OIL&GAS

Taranto



STEEL

Ancona



MARINE

Massa



OIL&GAS

Livorno



MARINE

Carrara



MARINE



OPERATING AND LOGISTIC UNITS

OPERATING AND LOGISTIC UNIT Ancona





OPERATING AND LOGISTIC UNIT Pistoia







OPERATING AND LOGISTIC UNITS

OPERATING AND LOGISTIC UNIT **Buffalo**





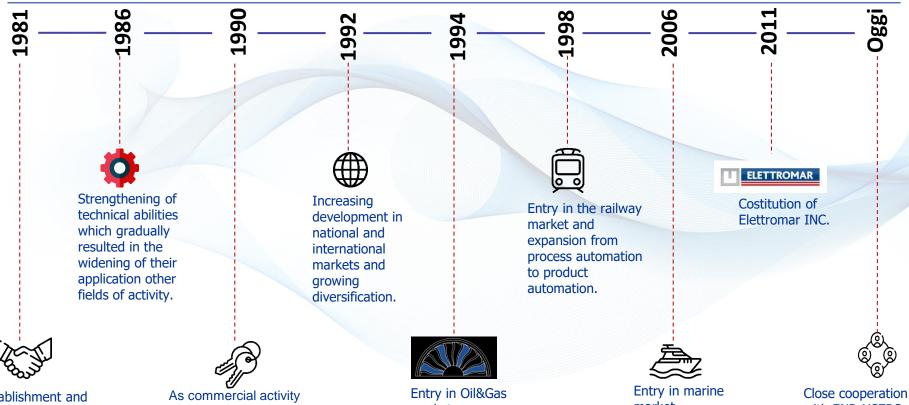
LOGISTIC UNIT Piombino







OUR HISTORY



Establishment and development of steel and chemical & mining sector in the local area; supply of electrical and instrumental activities aimed at process automation.

expanded, the company obtained a leading role in the manufacturing of electrical automation systems in other sectors, such as energy, environment and paper making.

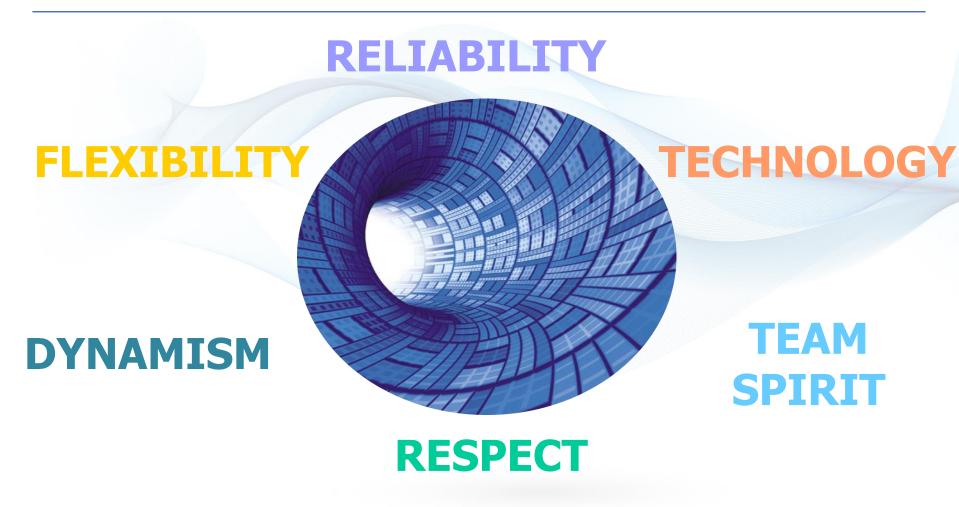
market.

market.

with END USERS and OEM'S and engagement in significant projects at Italian and international level.

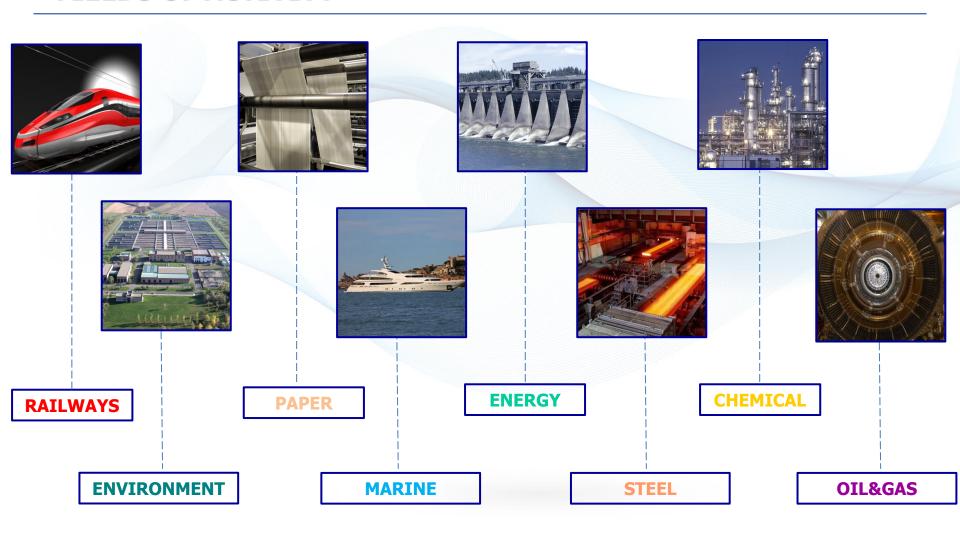


OUR VALUES

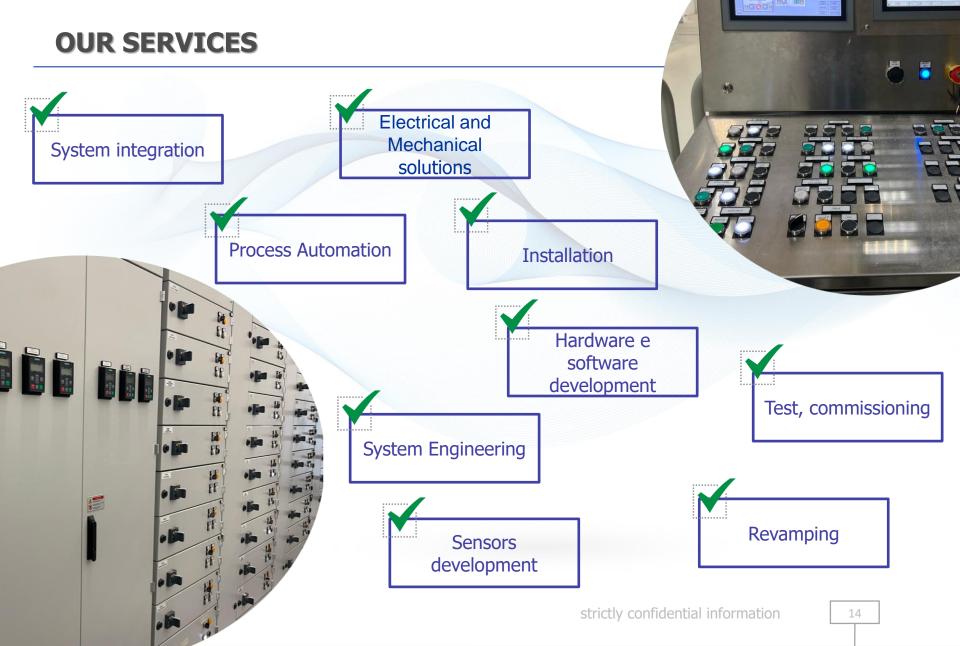




FIELDS OF ACTIVITY









PROJECTS DEVELOPMENT





Teams of technicians, engineers, and project managers follow the development process at every stage from consultancy and feasibility study to system engineering and hardware and software development, construction, testing, commissioning and after-sales.



ELETTROMAR GROUP



About

250

PEOPLE



39

TURNOVER IN MILLION EURO



More than

1000

STRATEGIC PROJECTS



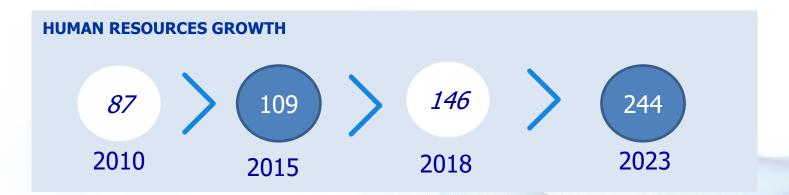
More than

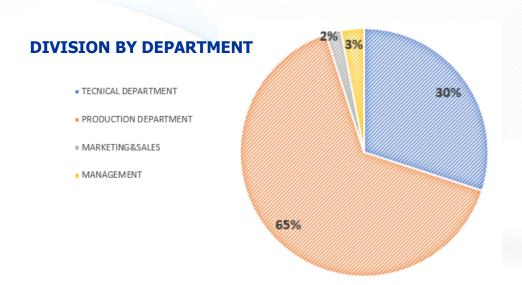
50

COUNTRIES



OUR PEOPLE





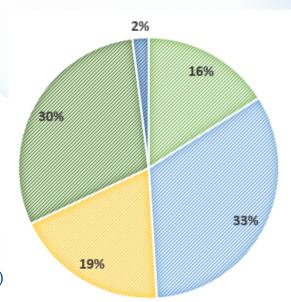


THE FIGURES





- MARINE
- RAILWAYS
- ENERGY
- AUTOMATION*
- VARIE



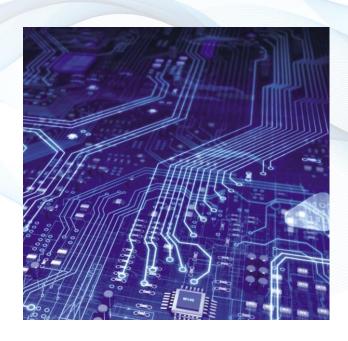
*Automation (Steel, Paper, Chemical, Environmental)



DEVELOPMENT STRATEGY

DIVERSIFICATION

RESEARCH & DEVELOPMENT



INNOVATION

SPECIALISATION



Fields of activity details



STEEL

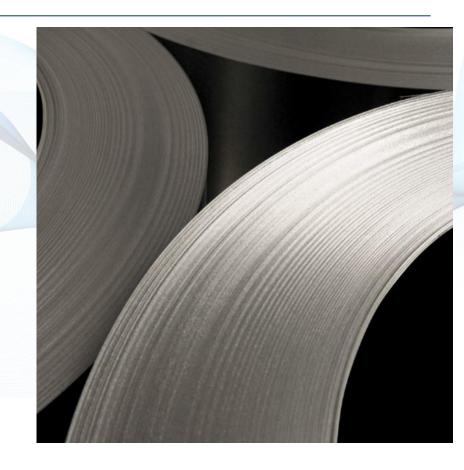
The steel sector is one of the areas where Elettromar has historically been ever-present.

It goes without saying that there is no single steel working process where the company has not had the opportunity to be present and active.

This applies universally, from steel working plants in general to continuous casting, from treatment in foundry areas to rolling mills, from long to flat products.

The experience gained also in cokeries, in environmental treatments including those for water and for industrial smoke emission, and in the field of raw material preparation should not be overlooked.

Over and above this, Elettromar can boast important experience in material handling, particularly in steel plants, through the use of wireless technology.





STRATEGIC PROJECTS



STEEL – ACTIVITIES

ELECTRO-INSTRUMENTAL SYSTEMS AND AUTOMATION FOR

Parks and raw material preparation

Rolling mills

_____Casting lines

Press work and forging

Reheating ovens

OR Inspection and nes testing lines Primary an<u>d secondary</u>

Blast furnaces

metallurgy

Cokeries and environmental treatments

Water and fume treatment

Treatments for laminate

Radio controls for cranes and casting wagons

ENGINEERING

- Study and analysis of project feasibility and support in the budgeting phase
- MV/LV distribution system design
- MV/LV distribution switchboards, MCC switchboards, AC and DC Drives switchboards design
- PLC/DCS automation switchboard design
- Electro-instrumental installations design
- Risk analysis
- Mechanical design

SOFTWARE DEVELOPMENT

- > PLC/DCS
- > SCADA
- Level 2 / Plant management systems interface
- > APP Android&IOS
- Maintenance
- > Mathematical models
- Optimisation of production cycles and energy consumption
- > Testing, inspection and quality systems

ELECTRICAL PANEL BOARDS

- Medium Voltage Switchboards
- > MV/LV transformers
- Low voltage distribution boards
- MCC Protection and Control Switchboards
- AC driveboards
- DC driveboards
- Automation panelboards
- > Instrumental and pneumatic panelboards

COMMISSIONING

- FAT
- > SAT
- Baby sitting
 Start-up assistance
- > Performance test

- **SERVICE**
- Hardware and software maintenance contracts
- Specialized assistance
- Technology and system upgrades



ENERGY

Elettromar began to propose professional services in the energy field from the nineties.

In almost twenty years of experience, industrial automation solutions have been developed and engineered for power production plants using various sources of energy, particularly alternative ones.

Thanks to these achievements, Elettromar has a background knowledge that allows it to operate at significant levels in the principal segments of this sector.







ENERGY – ACTIVITIES

ELECTRO-INSTRUMENTAL SYSTEMS AND AUTOMATION FOR THERMAL, HYDROELECTRIC, GEOTHERMAL POWER STATIONS

Test benches for centrifugal compressors

Gas turbines

Test benches for combustion chambers

Control systems for alternator's excitation

Cogeneration plants

Signal and measurement interfacing

ENGINEERING

- Study and analysis of project feasibility and support in the budgeting phase
- MV/LV distribution system design
- MV/LV distribution switchboards, MCC switchboards, AC and DC Drives switchboards design
- > PLC/DCS automation switchboard design
- Electro-instrumental installations design
- > Risk analysis
- Mechanical design
- Turbogas and cogeneration control systems
- Control systems for static excitation alternators
- > Control and protection systems

SOFTWARE DEVELOPMENT

- PLC/DCS SCADA
- Level 2 / Plant management systems interface
- > APP Android&IOS
- Turbine control systems
- Combustion control systems
- > Maintenance
- Mathematical models
- Optimisation of production cycles and energy consumption
 - Testing, inspection and quality systems

ELECTRICAL PANEL BOARDS

- Medium Voltage Switchboards
- > MV/LV transformers
- Low voltage distribution boards
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- > AC driveboards
- DC driveboards
- Automation panelboards
- Instrumental and pneumatic panelboards

COMMISSIONING

- FAT
- > SAT
- Baby sitting
- > Assistenza avviamento
- Performance test

SERVICE

- maintenance contracts Specialized assistance
- Technology and system upgrades

Hardware and software



THE ENVIRONMENT

The growing importance of ecological and environmental themes constituted a stimulus for Elettromar in deciding to invest resources and first rate capacities in processes of this kind too.

Company activity in this direction has become a particularly interesting experience, principally in the field of making control, supervision and telemetry systems for water treatment and waste disposal plants, both industrial and civil.







THE ENVIRONMENT— ACTIVITIES

ELECTRO-INSTRUMENTAL SYSTEMS AND AUTOMATION FOR

Water treatment for industrial and civil use

Fume extraction systems

Post-combustion plants

Civil waste treatment

Combustion control for organic waste incinerators

ENGINEERING

SOFTWARE DEVELOPMENT

ELECTRICAL PANEL BOARDS

COMMISSIONING

SERVICE

- Study and analysis of project > feasibility and support in the > budgeting phase >
- MV/LV distribution system design
- MV/LV distribution switchboards, MCC switchboards, AC and DC Drives switchboards
- PLC/DCS automation switchboard design
- Design of electro-instrumental > installations
- Risk analysis Mechanical design
- Turbogas and cogeneration control systems
- Control and protection systems

- PLC/DCS
- SCADA
- Level 2 / Plant management systems interface
- > APP Android&IOS
- > Turbine control systems
 - Combustion control systems
 - Maintenance
 - Mathematical models
 - Optimisation of production cycles and energy consumption
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- Medium Voltage Switchboards
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- Automation panelboards
- Instrumental and pneumatic panelboards

- FAT
- > SAT
- Baby sitting
- > Start-up assistance
- Performance test
- Hardware and software maintenance contracts
- Specialized assistance
 Technology and system
 - Technology and system upgrades



CHEMICALS & MINES

Given its geographical position in the centre of the Tuscan mineral bearing hills, Elettromar is able to boast a historical experience in the field of chemical-mineral plant and automation.

A profound knowledge of production processes wedded to a consolidated experience of industrial automation systems has allowed Elettromar to develop significant experience in the field of the DCS more prominent within chemical plants.

A mastery of those electro-instrumental systems that are particularly widespread in this field, and the upgraded instrumental technology of recent years, allows Elettromar to propose the best

solutions for production process control.







CHEMICALS & MINES – ACTIVITIES

ELECTRO-INSTRUMENTAL SYSTEMS AND AUTOMATION FOR Control of emissions (solids, water and fumes)

Sulphuric acid production plants

Filtering systems

Titanium dioxide production plants

CO2 production plants

Cargo bay for sulphuric acid tankers

Material taping plants

Mineral belt plants

Remote control of mining ventilation

ENGINEERING

- Study and analysis of project feasibility and support in the budgeting phase
- MV/LV distribution system design
- MV/LV distribution switchboards, MCC switchboards, AC and DC Drives switchboards design
- PLC/DCS automation switchboard design
- Electro-instrumental installations design
- Risk analysis
- Mechanical design
- Turbogas and cogeneration control systems
- Control and protection systems

SOFTWARE DEVELOPMENT

- PLC/DCS
- **SCADA**
- Level 2 / Plant management > systems interface
- APP Android&IOS
- Turbine control systems
- Combustion control systems >
- Maintenance
- Mathematical models
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ELECTRICAL PANEL BOARDS

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- Instrumental and pneumatic
 - panelboards

COMMISSIONING **SERVICE**

- Hardware and software maintenance contracts
 - Specialized assistance
 - Technology and system upgrades

FAT

SAT

Baby sitting

Start-up assistance

Performance test



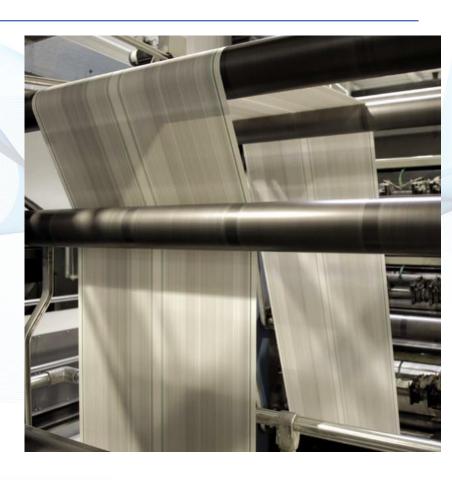
PAPER

The Tuscan paper making pole is one of the most important at international level and its presence has allowed Elettromar to express its potential also in this sector.

Amongst the principal projects, the system of control and supervision of the plant for the recovery of patine and pulp along with the systems for calendar bobbin and winder movement deserve mention

As a system integrator, also in the field of wireless technology automation, Elettromar has carried out the installation of numerous remote-controlled plant for bridge cranes and radio-controlled trucks.







PAPER – ACTIVITIES

ELECTRO-INSTRUMENTAL SYSTEMS AND AUTOMATION FOR

Roll packagers

Plant for coils carrying trucks movement

Radio controls and data transmission for bridge cranes and transfer trolleys

Plants for patina production Reel rewinding equipment and recovery

> Transport of rolls from slitter to roll packer

COMMISSIONING

Baby sitting

Start-up

assistance

Performance test

FAT

SAT

ENGINEERING

- Study and analysis of project feasibility and support in the budgeting phase
- MV/LV electrical distribution systems design
- MV/LV distribution switchboards, MCC switchboards, AC and DC Drives switchboards design
- PLC/DCS automation switchboard design
- Electro-instrumental installations design
- Risk analysis
- Mechanical design
- Turbogas and cogeneration control systems
- Control and protection systems

SOFTWARE DEVELOPMENT

- PLC/DCS **SCADA**
- Level 2 / Plant management> systems interface
- APP Android&IOS
- Turbine control systems
- Combustion control systems>
- Maintenance
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- Optimisation of production cycles and energy consumption
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ELECTRICAL PANEL BOARDS

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 - Low voltage distribution boards
 - MCC Switchboards Protection and Control
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 - Automation panelboards
 - Instrumental and pneumatic
 - panelboards

SERVICE

- Hardware and software maintenance contracts
- Specialized assistance
 - Technology and system upgrades



RAILWAYS

Since 1998 we have been operating in the railway construction sector, participating in important orders for the design, manufacture and installation of electrical boards for trains, trams and light urban railways.

Elettromar is able to guarantee full execution of electro-instrumental activities on board railway vehicles through the organisation of operating units working with the railway constructor.

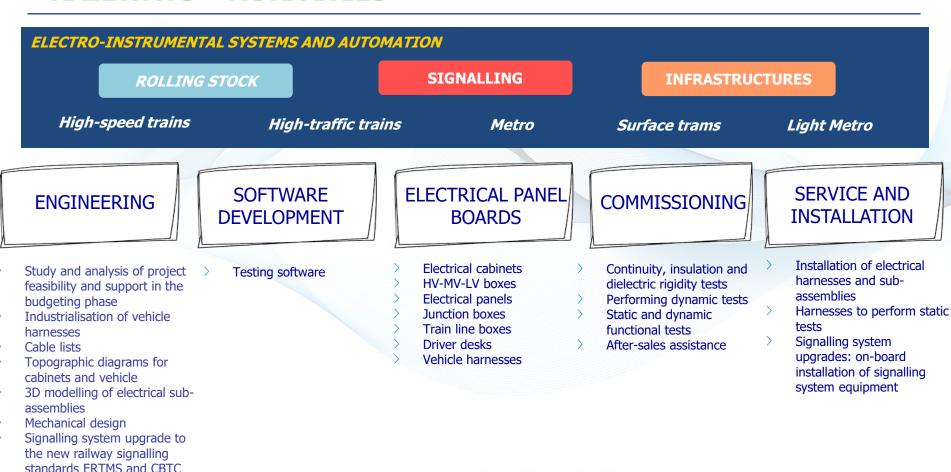








RAILWAYS – ACTIVITIES





MARINE

Elettromar has been able to extend its activities to the naval sector, more precisely that of steel and aluminium gigayachts.

Apart from activities related to the design of hardware and software, important experience has been gained in on-board monitoring systems, using the most up-to-date technologies of industrial automation and contributing in this way to improving the architecture of automation and electrical distribution in naval craft.

Working together with important shipyards (Azimut/Benetti Group, CRN Group, TISG Group), or directly for the shipowner, and counting on abilities won in more strictly industrial environments, Elettromar has extended the application of control and supervision systems derived from experience in other markets.





More than

60

STRATEGIC PROJECTS



MARINE – ACTIVITIES

ELECTRO-INSTRUMENTAL SYSTEMS AND AUTOMATION **Catamarans** Megayacht Fibregall hull Gigayacht Aluminium and steel hull

ENGINEERING

Study and analysis of project feasibility and support in the budgeting phase

- LV electrical distribution system design
- Domotic system
- Waiter call system
- **Emergency systems**
- Mechanical design assistance
- Direct relationship with certification institution (LR, RINA, ABS, MCA, etc.)
- Design of monitoring and automation system structure

SOFTWARE DEVELOPMENT

- PLC/DCS
- **SCADA**
 - **Power Management Control** System (PMS)
- Seamless transfer system
- On-board systems monitoring APP (Android&IOS)
- YEMS (Yacht Energy Management system) - Energy
 - consumption optimisation Interface development with
 - multiple communication or languages systems

ELECTRICAL PANEL BOARDS

- Main switchboards for power plant management
 - LV distribution boards
 - (power/lighting/domotics)
 - Engine room consoles
 - Bridge panels
 - Bridge panels/alarms
 - Monitoring and control
 - switchboards
 - Battery charge/discharge control panels
- Remote control panels
- Converters
- **Transformers**

COMMISSIONING

FAT

SAT

Baby sitting

assistance

Performance test

Start-up

Service:

Remote support and assistance

SERVICE E

REFIT

- **Troubleshooting**
- On-call service
- Supply of materials and equipment

Refit:

- Feasibility study and budgeting
- Design and development
- Installation, testing, commissioning

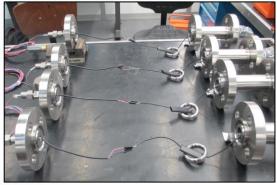


OIL&GAS

Elettromar is specialised in the installation of a lot of types of sensors (temperature, pressure, vibration, acoustic, proximity sensors) on Turbomachinery components such as gas turbines, steam turbines, centrifugal compressors, axial compressors and general parts.

The Know-how gained over the years has enabled the development of numerous techniques such as Splicing, Waterproof and Hot Temperature Tackwelding, Filler Wire, rotor component instrumentation.







OIL&GAS - ACTIVITIES

TYPES OF SENSORS:

- > Temperature sensors
- > Pressure sensors (dynamic and static)
- > Structural load and strain, structural health monitoring
- Vibration sensors
- Acoustic sensors
- Proximity Sensors
- Laser Sensors

OTHER SERVICES

- > Test assistance (mechanical, instrumental and electrical)
- Mechanical design
- > 3D modelling
- > Rapid prototyping with 3D printer
- > Development and implementation of validation tests for new applications
- > Fluid-dynamic characterisation of machine components
- > Creation of custom pressure probes and machining operations
- > Assembly and connections of Telemetry data acquisition
- > Welding/brazing on superalloys



RESEARCH & DEVELOPMENT PROJECTS

#ROBOTICS

#ENERGY SAVING

#ENERGY RECOVERY

#REMOTE ASSISTANCE

#SANIFICATION

#COMPUTER VISION



NEXT STEPS

#GREEN

#DIGITALISATION

#INNOVATION

#SOSTENIBILITY

#IoT

#BIG DATA

#ENERGY TRANSITION

#DATA CENTER



Certifications













AUTHORIZATION TO MARK

This authorizes the application of the Certification Mark(s) shown below to the models described in the Product(s) Covered section when made in accordance with the conditions set forth in the Certification Agreement and Listing Report. This authorization also applies to multiple listee model(s) identified on the correlation page of the Listing Report.

This document is the property of Intertek Testing Services and is not transferable. The certification mark(s) may be applied only at the location of the Party Authorized To Apply Mark.

Applicant: ELETTROMAR SPA

Address: via Archimede, 186
58022 Follonica (GR)

Manufacturer: ELETTROMAR SPA

Address: via Archimede, 186
58022 Follonica (GR)

Country: Italy

Country: Italy
Party Authorized To Apply Mark: Same as Manufacturer

Report Issuing Office: Same as Manuac Intertek Italia SpA

Italia SpA

Helen Julafreren

Control Number: 5000969 Authorized by:



Intertek

Intertek

Intertek

This document supersedes all previous Authorizations to Mark for the noted Report Number.

This Authorization Make is to the sections of the Index's Center of the provided private file of the Center of the Index's Center of

Intertek Testing Services NA Inc. 545 East Algonquin Road, Arlington Heights, IL 60005 Telephone 800-345-3851 or 847-439-5667 Fax 312-283-1672

Standard(s): Industrial Control Panels [UL 508A:2018 Ed.3+R:06Aug2020]

Industrial Control Panels and Assemblies [CSA C22.2#286:2017 Ed. 2]

Product: Industrial Control Panels For General Use Industrial Control Panels For Industrial Machinery

Models: Custom Industrial Control Panels

ATM for Report 200031461UDI-ETL

Page 1 of 1

ATM Issued: 31-Jan-2022 ED 16.3.15 (16-Oct-2021) Mandatory





CERTIFICATE

Elettromar spa Via Archimede n. 186 58022, Follonica Italy

RINA Services S.p.A.

confirms, as an IRIS Certification* approved certification body, that the Management System of the above organization has been assessed and found to be in accordance with the

IRIS Certification® Conformity assessment:2020 and based on ISO/TS 22163:2017

for the activities of Design and Development and Manufacturing for the scope of certification: 12 (Electrical wiring) DESIGN AND DEVELOPMENT AND MANUFACTURING OF ELECTRICAL CABINETS AND CABLING

Certificate valid from: 20/04/2024

Certificate valid until: 19/04/2027*

Paolo Teramo Certification Compliance & Technical Support Senior Director

al como

Current date: 12/03/2024 Certificate-Register-No: 97/16/IRIS



* Providing that the subsequent surveillance audits are successful before the validity date of the previous audit. Certification body address: Via Corsica 12, 16128 Genova, Italy

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COMUNITÀ EUROPEA



Certificato AEO

IT AEOF 14 0902

1. Titolare del Certificato AEO

ELETTROMAR S.P.A. Codice EORI IT00641720537 2. Autorità che rilascia il Certificato

Agenzia delle Dogane e dei Monopoli Direzione centrale legislazione e procedure doganali - Ufficio AEO, altre semplificazioni e rapporto con l'utenza.

il Titolare indicato nel riquadro 1 è un

Operatore economico autorizzato

Semplificazioni doganali / Sicurezza (AEOF)

3. Data di validità del certificato 07/08/2014

> Direttore dell'Ufficio DR. CHEVANNI YOSCA Mum



ESNA-SOA					
Società Organismo di Attestazione S.p.A.					
Codice Identificativo : 02859640241 (Autorizzazione n.16 del 14/11/2000)					
ATTESTAZIONE DI QUALIFICAZIONE ALLA ESECUZIONE DI LAVORI PUBBLICI (ai sensi del D.P.R. 207/2010)					
Rilasciato alla impresa: ELETTROMAR S.P.A. C. F.: 00641720537		P. IVA: 00641720537			
			CAP: 58022 Provincia: GR		
Indirizzo: VIA ARCHIMEDE 186		0.1. 30022	7107111001 011		
Iscritta alia CCIAA di: GR		al n.: 0064172053	7		
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Rappresentanti leg	pali		Direttori tecnic	ı	
Nome e Cognome Codice fiscale Nome e Cognome Codice fiscale				Codice fiscale	
SIMONE TURINI	TRNSMN61C20F032I	Ing. MICH	ELE BETTI	BTTMHLS8M12H901Q	
		P.I. LORENZO		BSTLNZ53A01F592H	
Categorie e classifiche di qualificazione:					
C.F. direttore tecnico cui è					
Categoria Classifica connessa la qualificazione					
OS 30 V					
Qualificazione per prestazione di progettazione e c		-16			
Qualificazione per prestazione di progettazione e c	ostruzione fino alla V clas	sifica.			
L'Impresa possiede la certificazione (art. 3 comma 1, lettera mm) del D.P.R. 207/2010 valida fino al 15/04/2025 rilasciata da SGS Italia S.p.A					
Attestazione n.: 25612/16/00 Data rilascio attestazione	(N.ro prog./ codice SOA) Data scadenza validiti	Sostituisce l'attestazione n.: 25459/16/00 (N.ro prog./ codice SOA) Deta scadenza intermedia			
originaria 12/07/2019	triennale	11/07/2022	(cons. stab.)	•	
Data rilascio attestazione in corso 07/07/2022	Data effettuazione verifica triennale	07/07/2022	Data scadenza validità quinquennale	11/07/2024	
Firmatari					
Rappresentante Legale REBECCHI GI	Direttore Tecnico	IORI SARA			
				Pagina 1 di 1	



Thank you for Your Attention

www.elettromar.it