

MARINE INDUSTRY

INDUSTRIA NAVALE

OUR COMPETENCIES

ELECTRICAL AND AUTOMATION SYSTEMS

1. Electrical engineering
2. Automation panels
3. Distribution boards
4. Customized on-board machine
5. Industrial control software
6. Product and production tracking platforms
7. Technological packages
8. Service and After Sales

PLANT ENGINEERING

1. Conceptualization and feasibility study
2. Engineering design
3. Procurement and materials management
4. Construction and installation
5. Commissioning and startup
6. Operations and maintenance
7. Continuous improvement and optimization

INDUSTRIAL ROBOTICS

1. Feasibility studies with 3D acquisition of cloud of points
2. Engineering and 3D drawings
3. Robotic simulation
4. Electrical and software development
5. Electrical and mechanical manufacturing
6. Assembly and construction
7. Software development
8. Internal cold commissioning
9. Factory Acceptance Test
10. Installation and hot commissioning
11. Training
12. Service and Technology Training Center

Some of our best seller robot applications:

Temperature and sampling | Quality control |
Skimming and cleaning | Marking and tagging
| Handling and palletizing | Bending | Welding
| Tailor made mechatronic projects

OUR MOTTO

FROM
OPERATOR



TO
SUPERVISOR

MARKETS WE SERVE

Aluminum | Cement | Energy | Environment | Infrastructures | Intralogistics | Mining |
Marine | Oil & gas | Petrochemical | Pharmaceutical | Plastics & rubber | Pulp & paper
| Renewables | Steel | Stone & tile | Textile

CERTIFICATIONS

ISO 9001/14001
ISO 50001 Energy
ISO 45001 Safety
UL 508A/CSA 22.2

PARTNERSHIPS

Rockwell Gold O&M Partner
Siemens solution partner Factory Automation
Siemens solution partner Drives and motion
ABB value provider



COMPANY OVERVIEW

Pioneering automation and robotics in critical industrial processes for over three decades

Polytec is an Italian company that has been developing **automation** systems and **robotics** for critical industrial processes for over 30 years.

The synergy between Polytec and the other companies of **BM Group**, an industrial group with over 350 direct employees, has enabled Polytec to establish itself as a leading international **integrator of systems** to pursue the digital and energy transition of industry.

Polytec intralogistics: specialised in the development of tailor-made intralogistics solutions.

Hydroalp: EPC contractor for green hydrogen production and hydropower plants.

Nyox: supplies industrial photovoltaic plants also through on-site and off-site PPA, thanks to its collaboration with Edison Next.

Pionieri nell'automazione e nella robotica dei processi industriali critici da oltre tre decenni

Polytec è un'azienda italiana che da oltre 30 anni sviluppa sistemi di **automazione** e **robotica** per processi industriali critici.

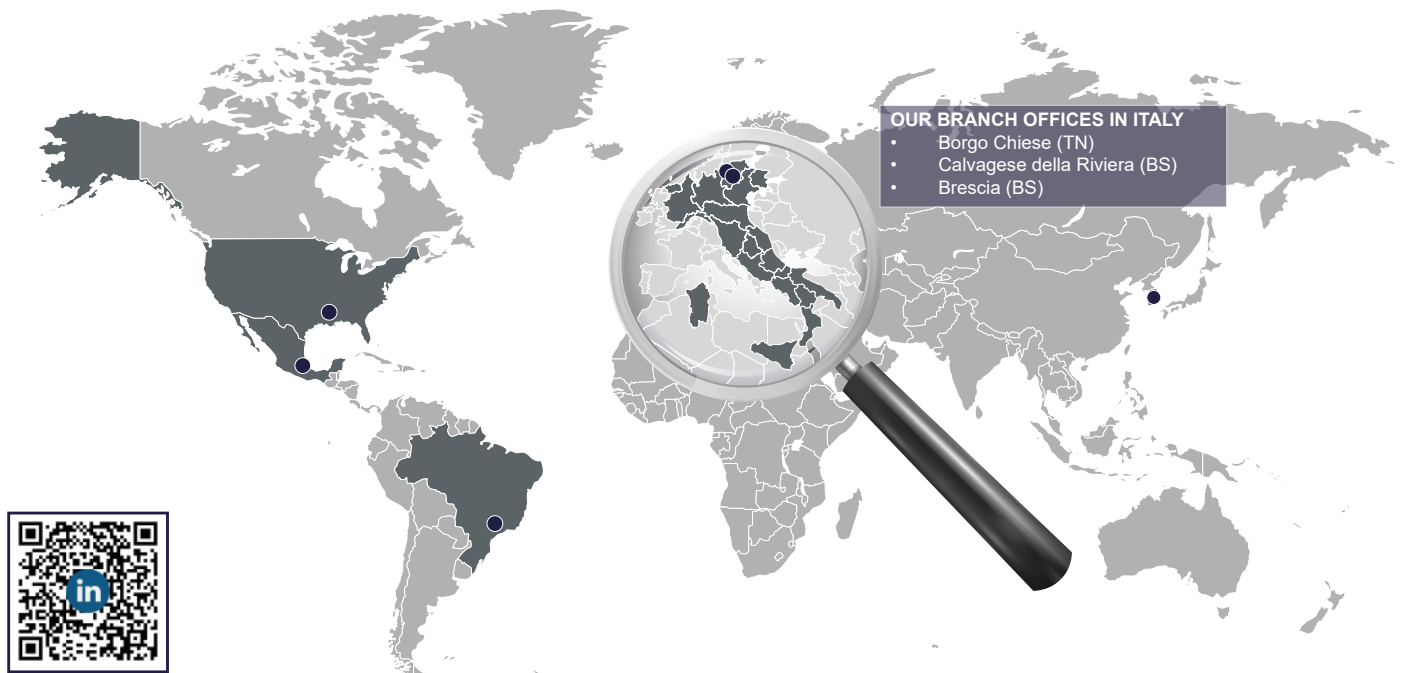
La sinergia tra Polytec e le altre aziende di **BM Group**, gruppo industriale con oltre 350 collaboratori diretti, le ha permesso di affermarsi come system integrator leader a livello internazionale per perseguire la transizione digitale ed energetica dell'industria.

Polytec intralogistics: specializzata nello sviluppo di soluzioni di intralogistica tailor-made.

Hydroalp: EPC contractor per impianti di produzione di idrogeno verde e idroelettrici.

Nyox: realizza impianti fotovoltaici industriali anche attraverso la formula di PPA on-site e off-site, grazie alla collaborazione con Edison Next.

BRANCH OFFICES



OUR BRANCH OFFICES IN ITALY

- Borgo Chiese (TN)
- Calvagese della Riviera (BS)
- Brescia (BS)

Polytec

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OUR SOLUTIONS

Polytec for the marine sector: advanced solutions for shipbuilding

Polytec per il settore marine: soluzioni avanzate per la cantieristica navale

ELECTRICAL AND AUTOMATION SYSTEMS

Polytec designs and supplies low- and medium-voltage power and distribution systems, tailored to the specific requirements of the shipbuilding industry.

The systems include:

- Main and secondary distribution panels
- Automation systems for smart energy and onboard process management
- Inverters, soft starters and motor control systems
- Integration with SCADA and PLC for remote monitoring and diagnostics.

All solutions comply with IEC 60092 standards and are specifically certified by LR.

QUADRI ELETTRICI E DI AUTOMAZIONE

Polytec progetta e fornisce quadri elettrici di distribuzione e di potenza a bassa e media tensione, realizzati secondo le specifiche esigenze della cantieristica navale.

I sistemi comprendono:

- Quadri di distribuzione principale e secondaria
- Sistemi di automazione
- Inverter, avviatori statici e sistemi di controllo motore
- Integrazione con SCADA e PLC per monitoraggio e diagnostica

Le soluzioni rispettano le normative IEC 60092 e nel dettaglio certificati LR.



INTRALOGISTICS SOLUTIONS

Polytec designs and implements advanced solutions for material handling and management, both onboard and within production facilities:

- Automated Guided Vehicles (AGVs) for transporting components and semi-finished products
- Automated warehouses
- Handling systems
- Software for logistics flow management and traceability

These solutions enhance safety and efficiency of the production process.

SOLUZIONI DI INTRALOGISTICA

Polytec progetta e realizza soluzioni innovative per la gestione e la movimentazione dei materiali, sia a bordo nave che nei reparti produttivi:

- Veicoli a guida autonoma (AGV) per il trasporto di componenti e semilavorati
- Magazzini automatici
- Sistemi di movimentazione
- Software per la gestione dei flussi logistici e la tracciabilità

Queste soluzioni migliorano la sicurezza e l'efficienza dell'intero processo produttivo.



ROBOTICS AND WELDING PORTAL

Polytec develops and integrates robotic systems on Cartesian portals for the automatic welding of complex naval components.

The solutions include:

- Robotic portal for continuous wire welding (MIG/MAG)
- Rail-mounted robots for large-scale operations (hulls, decks, bulkheads)
- Software for welding cycle programming and control

These technologies improve weld quality, reduce cycle times and increase safety.

ROBOTICA E PORTALI DI SALDATURA

Nell'ambito della robotica applicata alla cantieristica, Polytec sviluppa e integra sistemi robotizzati su portali cartesiani per la saldatura automatica di componenti navali complessi. Le soluzioni includono:

- Portali robotizzati per saldatura (MIG/MAG)
- Robot su guida per lavorazioni su larga scala (fianchi, ponti, paratie)
- Software dedicato alla programmazione e al controllo dei cicli di saldatura

Queste tecnologie migliorano la qualità della saldatura, riducono i tempi-ciclo e aumentano la sicurezza.





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