# STEEL RY 5.0 SINDUSTRY

••• polytec

# **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.

# **BRANCH OFFICES**



### Polytec

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### **Polytec Intralogistics**

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## **Polytec South America**

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# **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

- 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 Acceeptance Test
- 10. Installation and hot commissioning
- 11. Training
- 12. Service and After Sales

# 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

TECHNOLOGY TRAINING CENTER •••



# MARKETS WE SERVE

Aluminum | Cement | Energy | Environment | Infrastructures | Intralogistics | Mining | Marine & Naval | 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

Partner

Automation

SIEMENS

# We make the steel industry attractive for future generations

OPERATOR

Let's dress together your steel mill

SAFETY EFFICIENCY QUALITY



- Engineering, Procurement, Construction
- Power Purchase Agreement on-site Power Purchase Agreement off-site

- Plug & play solutions H2ALP
- Plant auxiliary systems



- AGV/AMR platforms
- AGV forklifts

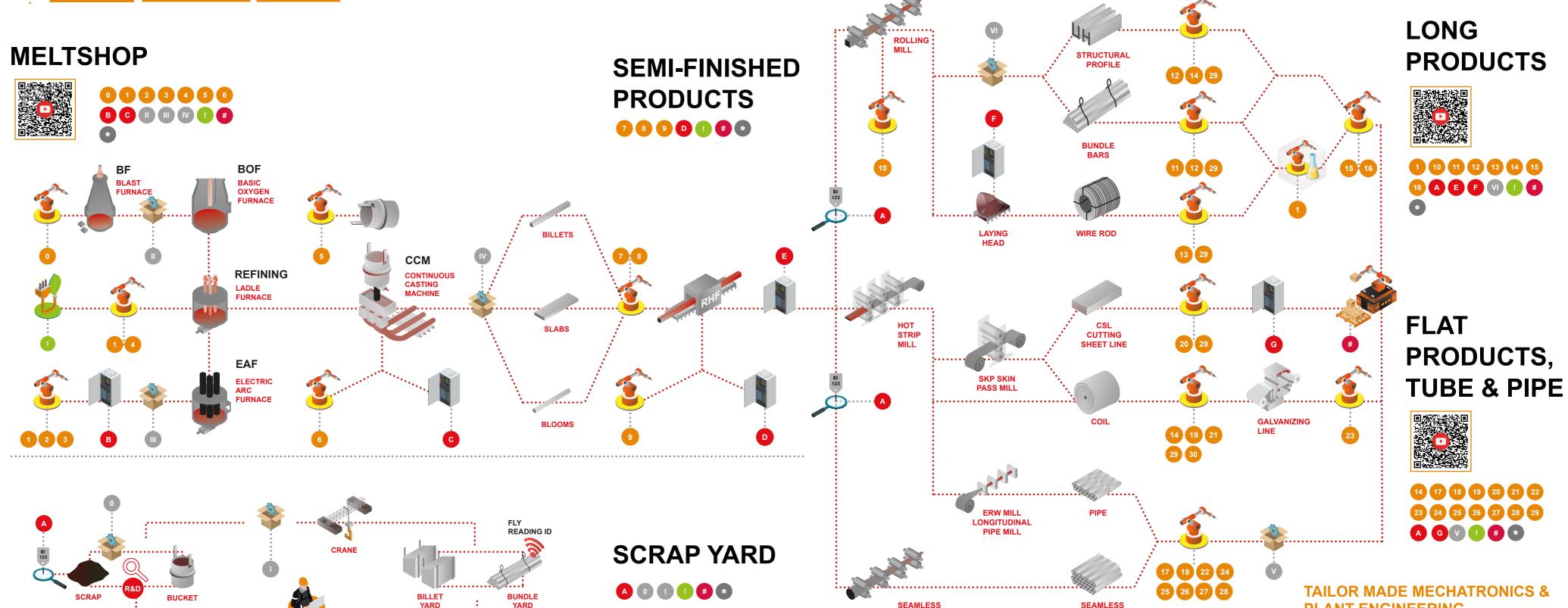
**PIPE MILL** 

- Intralogistics customized solutions
- Platform interconnected with customer's ERP





- Electrical systems
- Process automation
- Plant revamping
- DCS-controlled systems



# PRODUCTS,

**PLANT ENGINEERING** 

Thanks to our multidisciplinary expertise, we develop complex mechatronic projects and greenfield plants based on customer

PolySAMPLE BF/BOF0	PolyTAG FC12	PolyGREASE24	LEGEND
Automatic temperature measurement and sampling robot for BF/BOF	Automatic robot for bundle bar tagging	Robotic cell for the application of grease on thread	ROBOTIC CELL
PolyLAB1	PolyTAG V13	PolyMAN25	
Automatic cell for the preparation and analysis of steel samples	Automatic robot for wire rod tagging	Robot for application and pre-screwing of couplings on threaded seamless pipes	AUTOMATION PLATFORM
PolySAMPLE EAF. 2	PolyPROBE14	PolyPRO26	TECHNOLOGICAL PACKAGE
Automatic temperature measurement and sampling robot for EAF	Robotic cell for hot/cold profile sample cutting	Robot for screwing protectors on threaded seamless pipes	TECHNOLOGICAL PACKAGE
PolyEBT/SPOUT3	PolyARC15	PolyCAP27	ActiveHEAD
Automatic robot for EBT/SPOUT lancing and cleaning on EAF	Automatic cell for ARC and SPARK chemical analysis of steel bars	Robotic cell for cap application on seamless pipes	Wire-rod laying head bar synchronization
PolySAMPLE4	PolyMARK16	PolyMARK M28	ActiveSHEARG
Automatic temperature measurement and sampling robot for refining area	Downstream product marking system	Robotic cell for seamless pipe coupling marking	Shear control system
PolyLADLE5	PolyTAG T	PolyMOVE29	PolySCRAP
Robotic cell for ladle sliding gate maintenance	Automatic robot for tube bundle tagging	Robotic cell for product handling and palletizing or depalletizing	System for scrap yard 3D volume mapping
PolyCAST6	PolyMARK T18	PolyDESLAGGING30	PolyCRANE
Multi-tool robotic solution for continuous casting machines	Robotic cell for pipe marking	Robotic cell for deslagging cycle	Automatic unmanned crane guidance system
PolyTAG BLE 7 Robotic cell for automatic hot product tagging	PolyMARK C	ActiveTRACKING A	ActiveCAST IRON  System for cast iron temperature measurement in the blast furnace
PolyMARK B	PolyMARK L	ActiveARC	PolySLAG
PolyREAD9  Billet identification system before the entry into re-heating furnace	PolyDESTRAPPING	ActiveCAST	PolyTRACK
PolyGAP	PolyBUNDLE	ActiveRHF	PolySCAN
PolyTEST11 Cooling bed sampling robot	PolySKIM 23  Automatic robot for skimming and dross removal for zinc bath	ActiveROLL E	PolyCHECK



