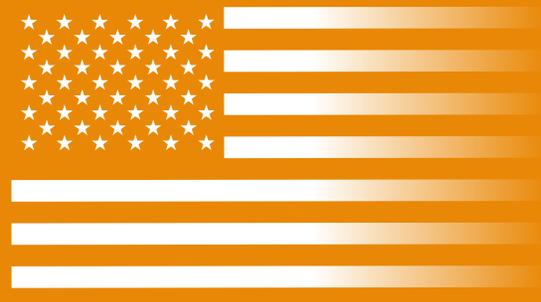


INSIDE  
FUTURE  
INSIDE



# STEEL INDUSTRY 5.0

# COMPANY OVERVIEW

## Driving American industry forward with advanced automation and robotics

For more than 30 years, Polytec has delivered high-performance **automation and robotic systems** for critical industrial environments. Built on Italian engineering excellence and powered by global expertise, we partner with U.S. manufacturers to improve **safety, efficiency, and operational reliability** across demanding production processes.

## Strategic technology partners

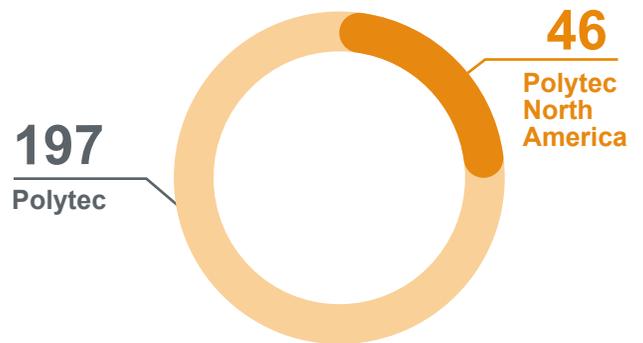
Polytec North America works closely with leading technology partners to supply high-quality **consumables and wear parts** for demanding industrial applications:

- Pannier,
- Heraeus,
- Oxylance,
- RHI Magnesita.

Through these collaborations, we combine specialized technologies and local expertise to provide customers with the most **advanced and reliable solutions** available on the market.



## WORKFORCE



# BRANCH OFFICES

### Polytec North America

9000 Clay Road, Suite 110 Houston, TX 77080, USA  
sales.usa@bmggroup.com | +1 (346) 571-2583

### Polytec Mexico

Av Paseo La Niña 150, OF.905 TORRE 1519 De Las Américas, Heriberto Kehoe Vicent, 94299 Veracruz, México  
sales.mx@bmggroup.com

### Polytec South America

Av. Julio Cassola, 1140 – Alphaville Nova Esplanada, Votorantim, SP, 18118-001, Sala 1 – Brazil  
sales.br@bmggroup.com | +551599660-1300



## 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



GOLD  
OEM Partner  
ROCKWELL AUTOMATION



Solution  
Partner

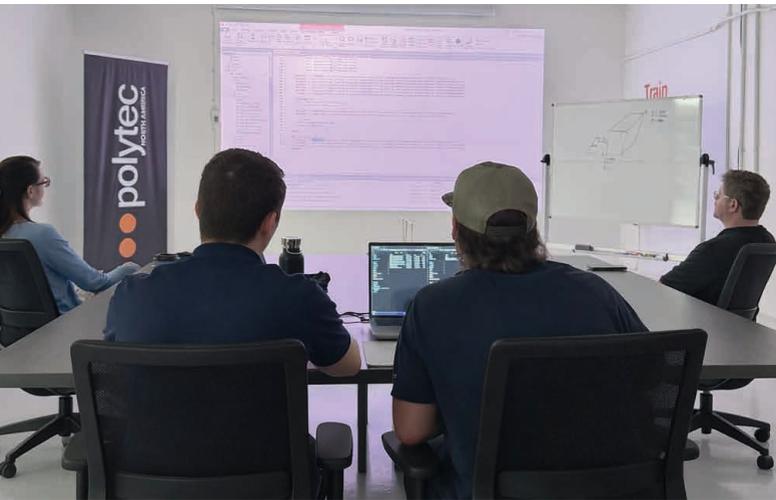
Automation  
Drives



# TECHNOLOGY TRAINING CENTER ●●●

- Customized training programs
- Robotics
- Automation
- Machine vision
- AI

[service.americas@bmgroup.com](mailto:service.americas@bmgroup.com)



## MARKET LEADERS CHOOSE POLYTEC

Nucor	Gerdau	Optimus Steel	Lock Joint Tube
Charter Steel	RHI	Caterpillar	
Arcelor Mittal	BLM Group	Cleveland Cliffs	Revere Copper
CMC	Tenaris	Tenova	
Steel Dynamics	Continuus Properzi	Matter	Zekelman Industries
Fagor	Valbruna Slater Stainless	Ternium	
Sarralle	SMS Group		

## NEW: GREENFIELD PROJECTS



We make the **steel industry** attractive for **future generations**

Let's dress together your **steel mill**

## ELECTRICAL AND AUTOMATION EQUIPMENT

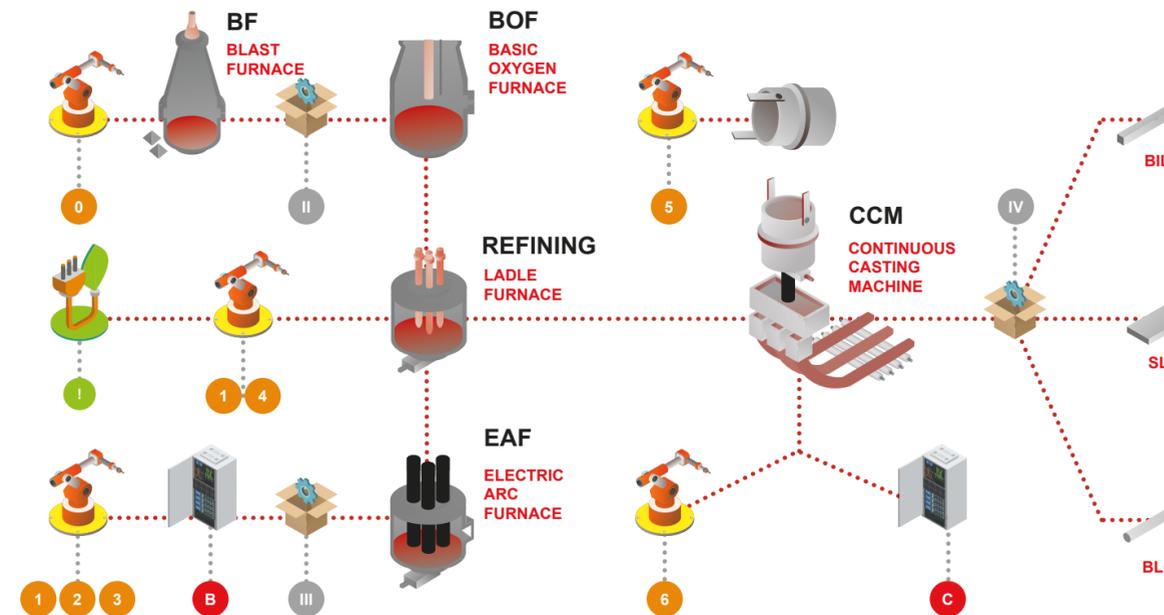
- Electrical engineering
- Automation panels
- Distribution boards
- Customized on-board machine
- Industrial control software
- Product and production tracking platforms
- Technological packages
- Service and After Sales

## # INTRALOGISTICS, AMR & SMART WAREHOUSES

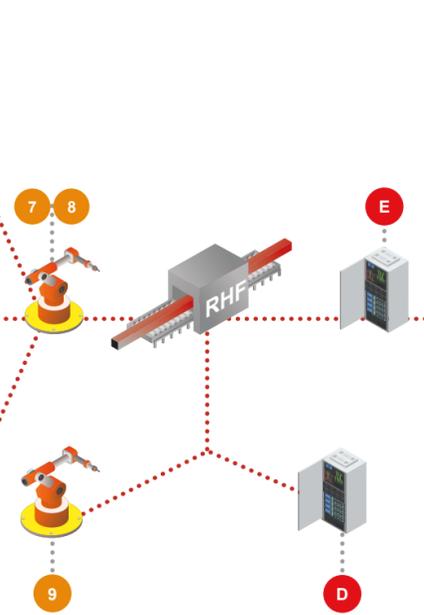
- AGV/AMR platforms
- AGV forklifts
- Navigation systems
- Intralogistics customized solutions
- Platform interconnected with customer's ERP



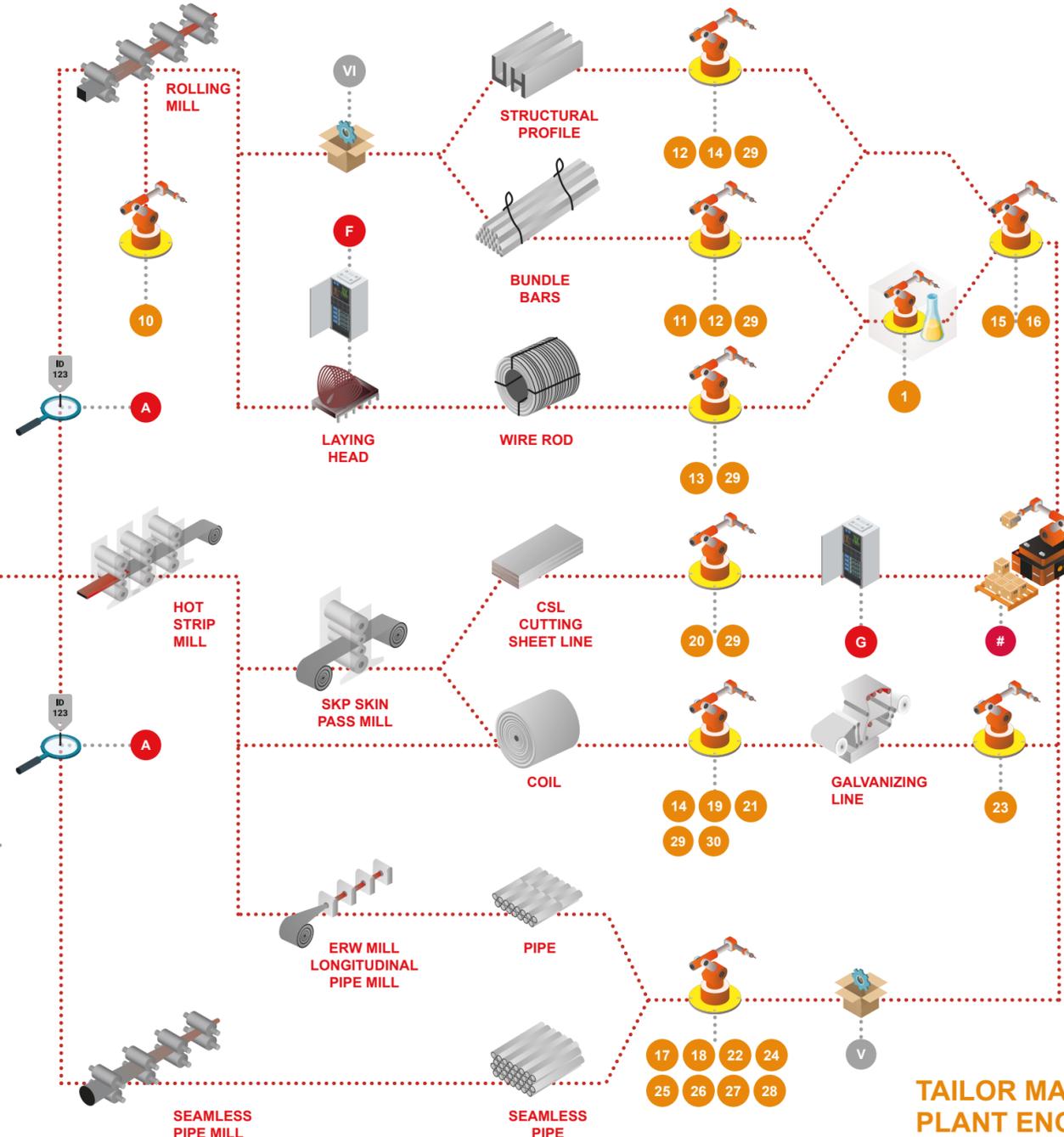
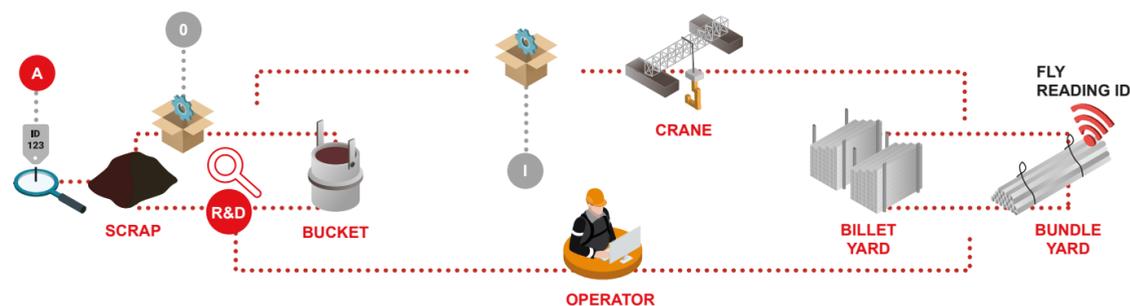
### MELTSHOP



### SEMI-FINISHED PRODUCTS



### SCRAP YARD



### LONG PRODUCTS



### FLAT PRODUCTS, TUBE & PIPE



### TAILOR MADE MECHATRONICS & PLANT ENGINEERING

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

**PolySAMPLE BF/BOF** ..... 0

Automatic temperature measurement and sampling robot for BF/BOF

**PolyLAB** ..... 1

Automatic cell for the preparation and analysis of steel samples

**PolySAMPLE EAF** ..... 2

Automatic temperature measurement and sampling robot for EAF

**PolyEBT/SPOUT** ..... 3

Automatic robot for EBT/SPOUT lancing and cleaning on EAF

**PolySAMPLE** ..... 4

Automatic temperature measurement and sampling robot for refining area

**PolyLADLE** ..... 5

Robotic cell for ladle sliding gate maintenance

**PolyCAST** ..... 6

Multi-tool robotic solution for continuous casting machines

**PolyTAG BLE** ..... 7

Robotic cell for automatic hot product tagging

**PolyMARK B** ..... 8

Automatic robot for slab and billet marking

**PolyREAD** ..... 9

Billet identification system before the entry into re-heating furnace

**PolyGAP** ..... 10

Robotic system for profile measurement between stands in a rolling mill process

**PolyTEST** ..... 11

Cooling bed sampling robot

**PolyTAG FC** ..... 12

Automatic robot for bundle bar tagging

**PolyTAG V** ..... 13

Automatic robot for wire rod tagging

**PolyPROBE** ..... 14

Robotic cell for hot/cold profile sample cutting

**PolyARC** ..... 15

Automatic cell for ARC and SPARK chemical analysis of steel bars

**PolyMARK** ..... 16

Downstream product marking system

**PolyTAG T** ..... 17

Automatic robot for tube bundle tagging

**PolyMARK T** ..... 18

Robotic cell for pipe marking

**PolyMARK C** ..... 19

Robotic cell for coil marking

**PolyMARK L** ..... 20

Robotic cell for flat product marking

**PolyDESTRAPPING** ..... 21

Robotic cell for destrapping

**PolyBUNDLE** ..... 22

Robotic cell for the automatic bundling of steel products

**PolySKIM** ..... 23

Automatic robot for skimming and dross removal for zinc bath

**PolyGREASE** ..... 24

Robotic cell for the application of grease on thread

**PolyMAN** ..... 25

Robot for application and pre-screwing of couplings on threaded seamless pipes

**PolyPRO** ..... 26

Robot for screwing protectors on threaded seamless pipes

**PolyCAP** ..... 27

Robotic cell for cap application on seamless pipes

**PolyMARK M** ..... 28

Robotic cell for seamless pipe coupling marking

**PolyMOVE** ..... 29

Robotic cell for product handling and palletizing or depalletizing

**PolyDESLAGGING** ..... 30

Robotic cell for deslagging cycle

**ActiveTRACKING** ..... A

Global tracking system

**ActiveARC** ..... B

3-phase EAF/LF electrodes arc control system

**ActiveCAST** ..... C

Continuous casting machine (CCM) control and automation system

**ActiveRHF** ..... D

Process control and automation system for reheating furnace

**ActiveROLL** ..... E

Rolling mill control and automation system

## LEGEND



ROBOTIC CELL



AUTOMATION PLATFORM



TECHNOLOGICAL PACKAGE

**ActiveHEAD** ..... F

Wire-rod laying head bar synchronization

**ActiveSHEAR** ..... G

Shear control system

**PolySCRAP** ..... 0

System for scrap yard 3D volume mapping

**PolyCRANE** ..... I

Automatic unmanned crane guidance system

**ActiveCAST IRON** ..... II

System for cast iron temperature measurement in the blast furnace

**PolySLAG** ..... III

Slag detection system for remote tapping

**PolyTRACK** ..... IV

Tracking and vision system for hot products

**PolySCAN** ..... V

System for automatic defect identification

**PolyCHECK** ..... VI

Bar straightness control

FUTURE  
INSIDE FUTURE  
FUTURE

