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ALUMINUM INDUSTRY

INDUSTRIA DELL'ALLUMINIO

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 company primarily focuses on the steel industry but also serves sectors such as aluminium, pulp & paper, and stone & tile.

Polytec's multidisciplinary expertise and continuous investments in research and technological development have enabled it to establish itself as a leading international **integrator of systems** that are the tools for pursuing the digital transformation of the industry.

Furthermore, Polytec is structured to act as a plant constructor within a new paradigm that places **quality of life** and **sustainability** at the heart of industrial processes.

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.

L'azienda si concentra principalmente sull'industria siderurgica, ma opera anche nel settore dell'alluminio, carta, ceramica e altri.

Le competenze multidisciplinari e i continui investimenti in ricerca e sviluppo tecnologico hanno permesso a Polytec di affermarsi come uno dei principali **integratori di sistemi** che costituiscono gli strumenti per la trasformazione digitale dell'industria.

Inoltre, Polytec è strutturata per agire come costruttore di impianti all'interno di un nuovo paradigma che pone la **qualità della vita** e la **sostenibilità** al centro dei processi industriali.

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

Let's dress together your aluminium mill

SAFETY **EFFICIENCY** **QUALITY**



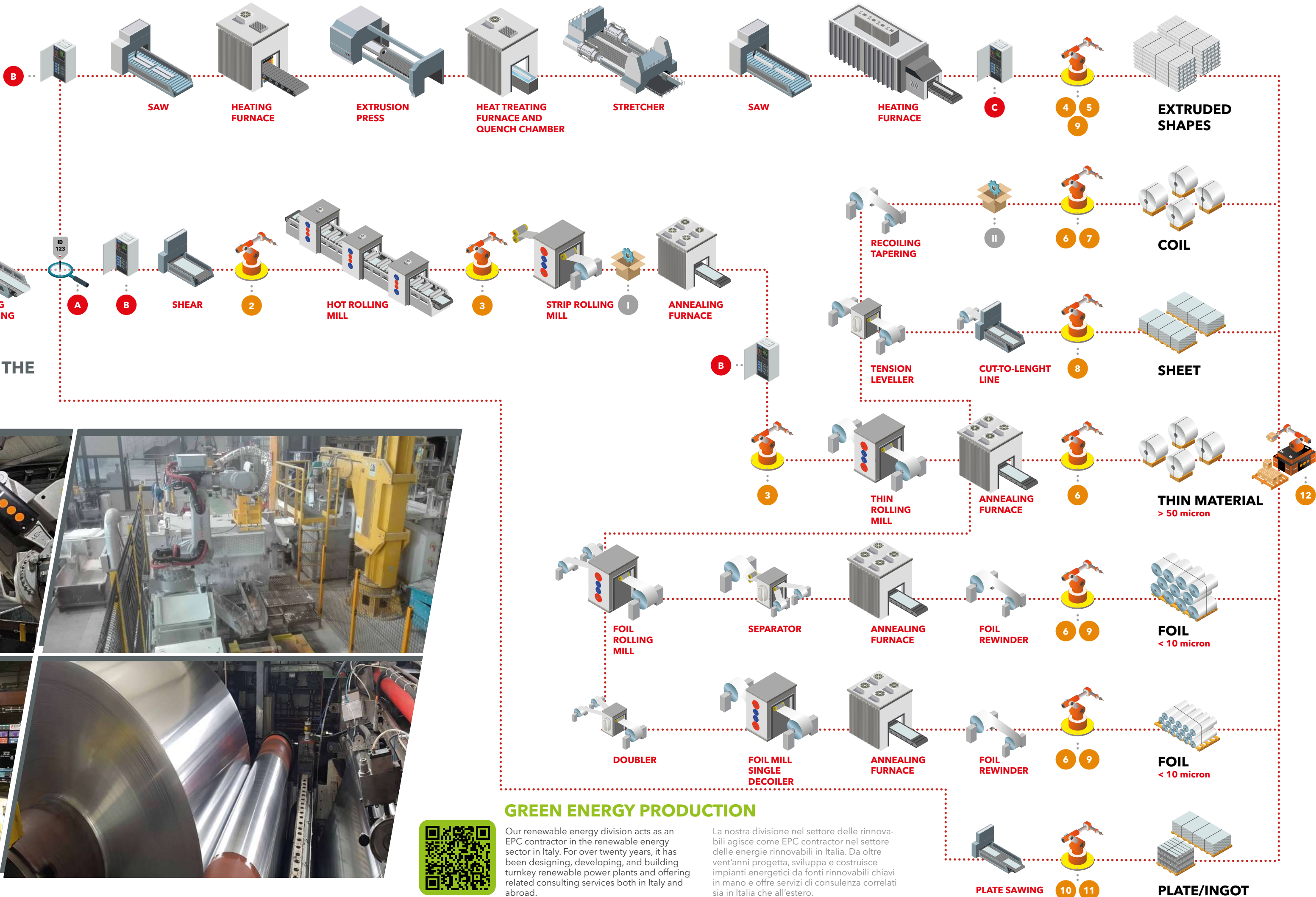
**POLYTEC SOLUTIONS FOR THE
ALUMINIUM INDUSTRY**



GREEN ENERGY PRODUCTION

Our renewable energy division acts as an EPC contractor in the renewable energy sector in Italy. For over twenty years, it has been designing, developing, and building turnkey renewable power plants and offering related consulting services both in Italy and abroad.

La nostra divisione nel settore delle rinnovabili agisce come EPC contractor nel settore delle energie rinnovabili in Italia. Da oltre vent'anni progetta, sviluppa e costruisce impianti energetici da fonti rinnovabili chiavi in mano e offre servizi di consulenza correlati sia in Italia che all'estero.



SCRAP

MELTING

PRIMARY PRODUCTION



Discover our solutions



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PolyFILTER1

Alloying furnace
filter changing robot

Robot per cambio
filtro su fornace
per leghe

PolyBASKET2

Robotic cell on the
head and tail of the
rolling mill, removes
scraps and empties
the scrap basket

Cella robotica in
testa e coda del
laminatoio, rimuove
gli sfridi e svuota il
cestello degli sfridi

PolyTITAN3

Robotic cell for
removing coil waste
from the rolling mill
unwinder

Robot per rimozione
scarto bobina dallo
svolgitore del
laminatoio

PolyLOAD4

Robotic cell for
uploading bars
into the calender

Robot per caricare
barre nella calandra

PolyTAG5

Robotic cell
for tagging

Isola robotizzata
per etichettatura

PolyMARK C6

Robotic system
for coil marking

Isola robotizzata
per la marcatura
di bobine

PolyDESTRAPPING7

Automatic robot
for strap debundling

Robot automatico
per il taglio delle
regge

PolyMARK L8

Robotic system
for flat products
marking

Isola robotizzata per
la marcatura di
prodotti piani

PolyBUNDLE9

Robotic cell for
automatic bundling

Isola robotizzata per
il confezionamento
automatico

PolyINGOT10

Ingots handling and
palletizing robot

Robot per
movimentazione e
palletizzazione di
lingotti

PolyTAG I11

Robotic cell for
ingots, blooms and
bars tagging

Robot per
etichettatura, lingotti,
blumi, barre

AMR FLEET12

Autonomous mobile
robots for smart
warehouses
management

Veicoli a guida
automatica per la
gestione efficiente
del magazzino

ActiveTRACKINGA

Global tracking
system

Sistema di tracking
globale

Process AutomationB

Revamping, electrical
equipment, process
control & software

Revamping,
apparecchiature
elettriche, controllo di
processo e software

Handling SystemC

Handling automation
up to the finished
product

Automazione della
movimentazione fino
al prodotto finito

Defect DetectionI

Surface defects
detection system

Sistema di
rilevamento dei
difetti superficiali

PolySCRAPII

Core cleaning cell

Isola robotizzata per
la pulizia del nucleo

LEGEND LEGENDA



ROBOTIC CELL
ISOLA ROBOTIZZATA



**AUTOMATION
PLATFORM**
PIATTAFORMA
DI AUTOMAZIONE



**TECHNOLOGICAL
PACKAGE**
PACCHETTO
TECNOLOGICO



INTRALOGISTICS
INTRALOGISTICA



OUR COMPETENCES

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

INDUSTRIAL ROBOTICS

1. Feasibility studies with 3D cloud of points acquisition
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 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

Some of our best seller robotics 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

Aluminium | Cement | Energy | Environment | Infrastructures | Intralogistics | Mining |
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



Solution
Partner

Automation
Drives



FUTURE
INSIDE FUTURE
FUTURE



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