

# Automation

for the metal industry



# Complete electrical equipment and process automation

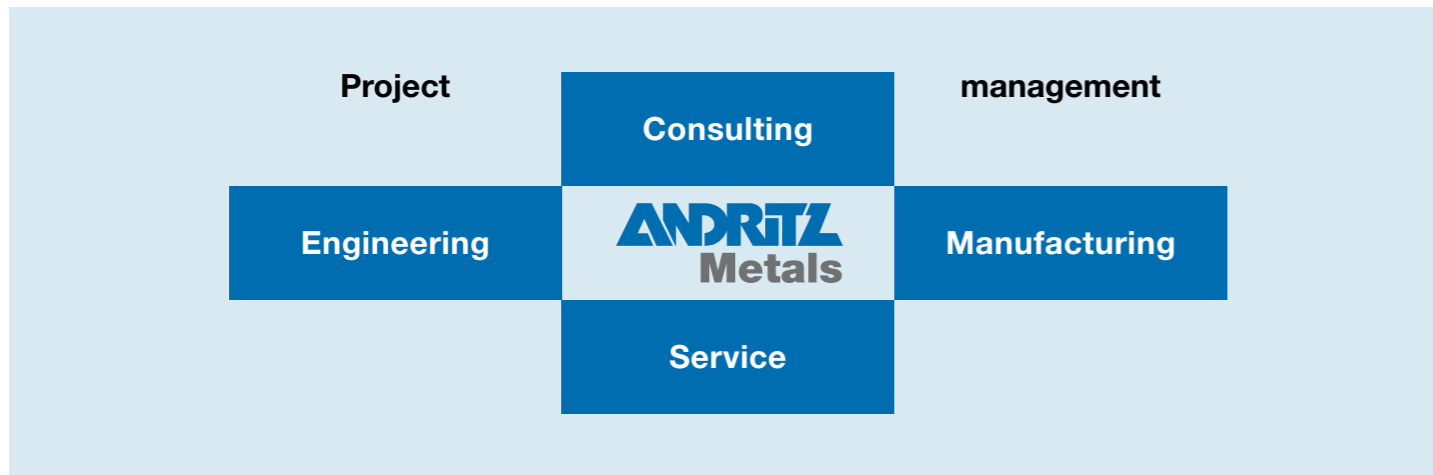
## About us

**ANDRITZ METALS Automation supplies complete electrical equipment and process automation for the metal industry.** This industrial sector is facing continuously rising demands which can only be met by implementing sophisti-

cated and cost-effective technical solutions. This objective has been achieved by introducing flexible and application-oriented automation technology together with standardized modern hardware and software systems. Precise and compre-

hensive knowledge of the line and process technology combined with many years of practical experience have resulted in ingenious solutions enabling our customers to produce top level products in terms of quality and productivity.

## Sphere of activities



### Consulting

- Feasibility studies
- Inquiries
- Project management

### Manufacturing

- Procurement
- Electrical cabinet manufacturing and functional testing

### Engineering

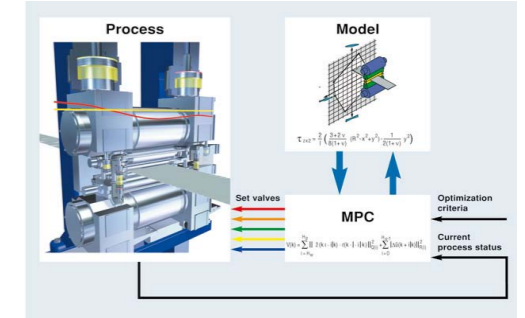
- Functional specification
- Basic and detail design
- Software development

### Service

- Installation and commissioning
- Training
- Life cycle services

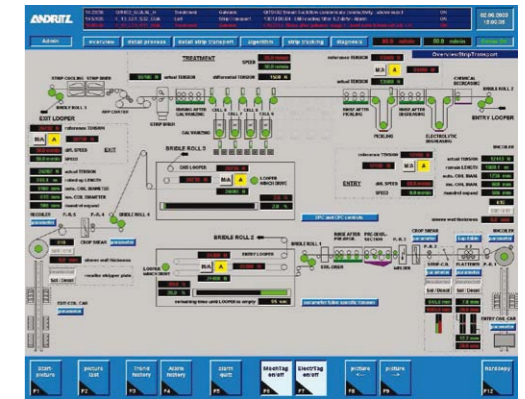
## Automation engineering

- Hardware engineering (CAE systems, data-base-oriented systems)
- Process instrumentation – key equipment in critical, technological processes
- Control systems – PLC, DCS, CNC – application programming
- Drives systems (single/sectional)
- HMI-Systems – Siemens, Wonderware, Rockwell, ABB, Yokogawa, etc.
- Process computer systems – MES – mathematical modelling
- Advanced process control
- Simulation applications – process simulation
- Special systems – flatness, mill control, etc.



## Equipment (supply)

- High/medium voltage equipment and distribution
- Low voltage equipment and distribution
- Drives systems
- PCC/MCC
- Instrumentation and sensors for process and terminal equipment
- Automation systems – PLC, DCS, CNC, HMI
- Process computer systems – modelling
- ITV, intercom, lighting, etc.



## Products

- Technological control systems (TCS) for ANDRITZ products
- Level 2 system – process optimization

### Rolling mills

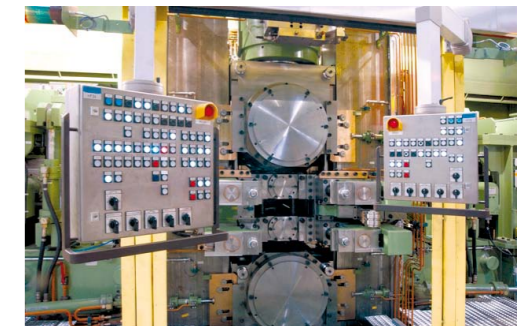
- POS Process optimization system
- PSM Pass schedule memory
- SPC Statistical process control
- MMS Mill management system
- ASC Automatic shape control
- RSMS Roll shop management system

### Processing lines

- Primary data handling
- Material handling
- Setup calculation
- Material-/segment tracking
- Report management
- Archiving

- Mathematical models for carbon and stainless steel process (ANDRITZ Line Master)

- |  |                                   |
|--|-----------------------------------|
| ALM-CP: Carbon steel pickling                  | ALM-SP: Stainless steel pickling  |
| ALM-FS: Carbon steel annealing                 | ALM-FT: Stainless steel annealing |
| ALM-OMS: Line optimization stainless steel     | ALM-EGL: Advanced coating control |
| ALM-CurrentD: Advanced control electrolytic p. | ALM-PP: Production planning       |



# Electric & automation for ANDRITZ METALS products

ANDRITZ METALS Automations offers its products and services for carbon steel, stainless steel, and non ferrous metals.



- Push pull pickling lines
- Continuous pickling lines
- Cold annealing/pickling lines
- Hot annealing/pickling lines
- Bright annealing lines
- Hot dip galvanizing lines
- Electrolytic galvanizing lines
- Continuous annealing lines
- Continuous colour coating lines
  
- Cold reversing mills (4-high)
- Cold reversing mills (6-high, 20-high)
- Temper mills
- Skin pass mills
- Tandem mills
  
- Regeneration plants (HCl acid)
- Regeneration plants (mixed acid)
  
- Tension levelling lines
- Coil preparation lines
- Slitting-cut to length lines
- Polishing lines
- Grinding lines
- Coil Preparation lines
  
- Heating furnaces
- Heat treatment furnaces
- Stationary and tilting bath melting furnaces
- Stationary and tilting shaft-bath melting furnaces
- Rotary drum-type furnaces
- Annealing furnaces
- Horizontal furnaces
- Vertical muffle type furnaces
  
- Punching and metals forming presses
- Roll grinder
- Shape tronic systems (shape meter)

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