

Electric and Automation

for all ANDRITZ METALS products

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

Strip processing

- Push pull pickling lines
- Continuous pickling lines
- Cold annealing and pickling lines
- Hot annealing and pickling lines
- Bright annealing lines
- Hot dip galvanizing lines
- Electrolytic galvanizing lines
- Continuous annealing lines
- Continuous colour coating lines

Rolling mills

- Cold reversing mills (2, 4, 6, S6-, 20-high)
- Temper, skin pass, and tandem mills
- Roll grinder
- Shape tronic systems (shape meter)

Acid regeneration

- Regeneration plants (HCl, mixed acid)
- Denox / Waste water treatment plants

Automotive

- Punching, metals forming presses
- Welding machines

Finishing

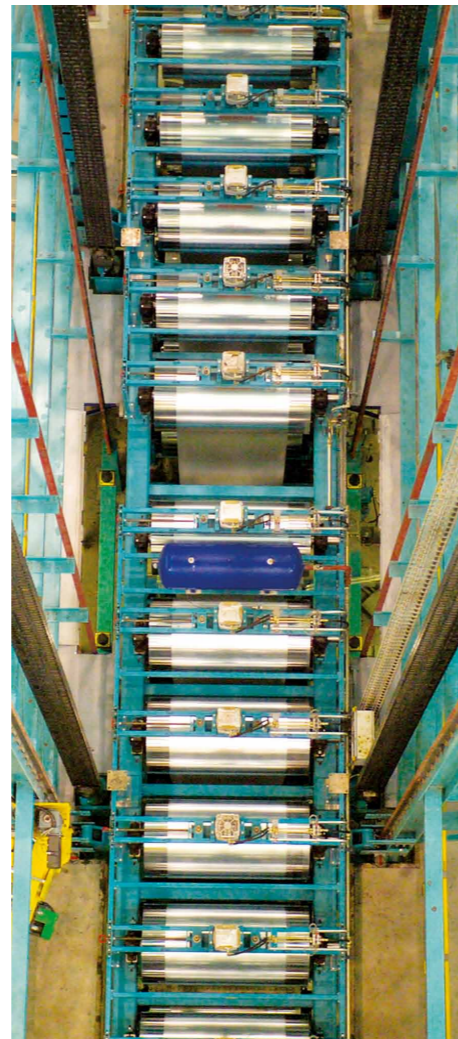
- Tension leveling lines
- Coil preparation lines
- Slitting / Cut-to-length lines
- Polishing / Grinding lines
- Chemical treatment, passivation lines
- Heat treatment lines
- Leveling lines
- (Electrolytic) Cleaning / Degreasing lines

Thermo processing

- Heating / Annealing furnaces
- Stationary and tilting bath melting furnaces
- Stationary and tilting shaft-bath melting furnaces
- Rotary drum-type furnaces
- Horizontal furnaces
- Vertical muffle type furnaces

Modernization

- Revamps, upgrades, optimizations
- Life cycle service



▲ Bright annealing line, SKS Shanghai

Automation

for the metals 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 sophisticated 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

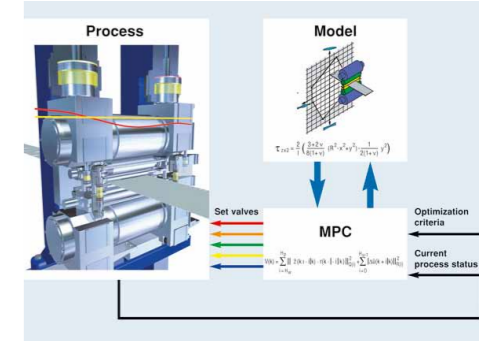
and comprehensive knowledge of the line and process technology combined with many years of practical experience have resulted in ingenious solutions enabling our customers to produce top level products in terms of quality and productivity.

Sphere of our activities



Automation engineering

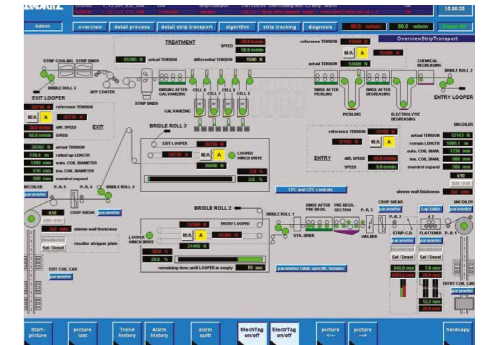
- Installation hardware engineering (CAE systems, data-base-oriented systems)
- Process instrumentation – key equipment in critical, technological processes
- Control systems – PLC, DCS, CNC – application programming
- Drives systems (single/sectional)
- HMI-systems – Siemens, Wonderware, Rockwell, ABB,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



▲ Screwdown system CRM

Equipment (supply)

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



▲ HMI processing line

Products

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

Rolling mills		Processing lines
POS	Process optimization system	Primary data handling
PSM	Pass schedule memory	Material handling
SPC	Statistical process control	Setup calculation
MMS	Mill management system	Material-/segment tracking
ASC	Automatic shape control	Report management
RSMS	Roll shop management system	Archiving



▲ 4-high CRM

Mathematical models for carbon and stainless steel processes (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 process	ALM-PP: Production planning



▲ Automation cubicle