

HIGH-PRODUCTIVITY FOR VALUE ADDED PRODUCTS

Carbon steel pickling lines

ANDRITZ



Carbon steel and the vast variety of applications

Today, ANDRITZ pickling technology prevails on the world market as a synonym for high productivity, low investment costs, and highest production flexibility. Continuous pickling lines (CPL) in their current design were defined widely and decisively by ANDRITZ.

CONTINUOUS PICKLING LINES

As a pioneer in the design and manufacture of polypropylene pickling tanks, ANDRITZ redefined shallow-tank and turbulent pickling. Many years of experience worldwide in revamping, processing, and full turnkey supply of continuous pickling lines – also as a part of pickling line and tandem cold mills (PLTCM) – form the basis of our customers' satisfaction, which is our top priority. The optimized pickling process with individual circulation and heating system ensures minimized consumption of utilities, while the result is always a scale-free strip surface.

Our continuous pickling lines (CPL) are designed for strip gauges from 0.8 mm to 6.5 mm and strip widths of up to 2,100 mm in different steel grades. Our lines for carbon steel serve capacities of over 2,000,000 tons/year and pickling speeds of up to 400 meters/minute.

PUSH PICKLING LINES

Push pickling lines were developed and introduced to the industry by ANDRITZ Ruthner in 1965. Since then, ANDRITZ Metals has built more push pickling lines worldwide than any other supplier.

The advantage of the push pickling line (PPL) is its high flexibility combined with high productivity at low investment costs. Cost-intensive equipment, like welding machines, loopers, and bridle rolls, is not required. The shallow pickling tank design ensures high turbulence and reduced pickling time.

ANDRITZ Metals push-pickling lines are capable of processing strip thicknesses from 0.8 mm to 16 mm and strip widths of up to 2,100 mm, with different steel grades and dimensions, coil by coil, and in direct succession. We have supplied lines for carbon steel with a maximum capacity of up to 1,000,000 tons/year. The optimized pickling process, with individual circulation and heating system, ensures minimized consumption of utilities, while delivering a fully pickled and defect-free strip surface.

PICKLING OF ELECTRICAL STEEL

The rapidly growing market for electrical steel (GO and NGO) demands reliable and advanced pickling solutions. ANDRITZ is fully prepared to meet these challenges.
The ANDRITZ SiO_2 removal system, available for inline and offline operation, efficiently removes SiO_2 from the pickling acid. Inline operation ensures continuous acid purification, extending the service life of circulation piping. Offline treatment protects downstream facilities, including acid regeneration systems. When combined with integrated scrub brush machines and a caustic soda flushing system, ANDRITZ delivers superior pickling quality, maximum process stability, and long-term equipment protection.

DECADES OF EXPERIENCE

The concepts and technology from decades of experience, and the specific needs in the different application fields drive us to new ideas and specialized solutions. Together as partners we want to condition, treat, and shape the material to its best.

References

STEEL PRODUCER, CHINA
Continuous pickling line

Plant facts

Capacity	1,200,000 t/year
Strip thickness	0.6–6.0 mm
Strip width	900–1,600 mm
Entry section speed	700 m/min, max.
Process section speed	400 m/min, max.
Exit section speed	650 m/min, max.
Steel grades	SPHC, SPHD, SPHE, HSLA, DP
Scope of supply	Skin pass mill, tension leveler, turret-type side trimmer, general planning, commissioning, and start-up

STEEL PRODUCER, NORTH AMERICA
Push pickling line

Plant facts

Capacity	1,200,000 t/year
Strip thickness	1.5–9.5 mm
Strip width	900–1,650 mm
Operation speed	200 m/min, max.
Steel grades	Low-carbon steel, electrical steel, HSLA, AHSS
Scope of supply	Mechanical, process, electrical and automation equipment, multi-roll leveler, skin pass mill, turret-type side trimmer, general planning

CUSTOMER BENEFITS

- Mechanical, process, electrical, and automation equipment
- All services provided from a single source
- High-turbulence Venturi pickling
- Compact rinse based on intensive research
- Modular arrangement
- Improved development and design provide long equipment life
- Vast know-how and continuous further developments make ANDRITZ the leading supplier of HCl pickling technology.



ANDRITZ METALS

ANDRITZ Metals Processing is a global leader in providing cutting-edge solutions for the production and processing of hot-rolled and cold-rolled strip made of carbon steel, stainless steel, aluminum, and other non-ferrous metals. Our innovative technologies and comprehensive services ensure that we support our customers at every stage of the plant life cycle, from initial setup to ongoing maintenance and optimization.

We combine our deep industry expertise with advanced automation and digitalization to help our customers achieve peak performance and sustainable growth. Our service business is dedicated to maximizing the efficiency and longevity of your equipment, ensuring you stay ahead in a competitive market.

ANDRITZ. FOR GROWTH THAT MATTERS.

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