



METALS

FINISHING LINES

A RESPECTABLE RANGE FOR ALL KINDS OF MATERIALS

ANDRITZ

ENGINEERED SUCCESS



ENGINEERED SUCCESS

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With over 300 finishing lines worldwide, ANDRITZ Metals is one of the market leaders in the finishing lines segment.

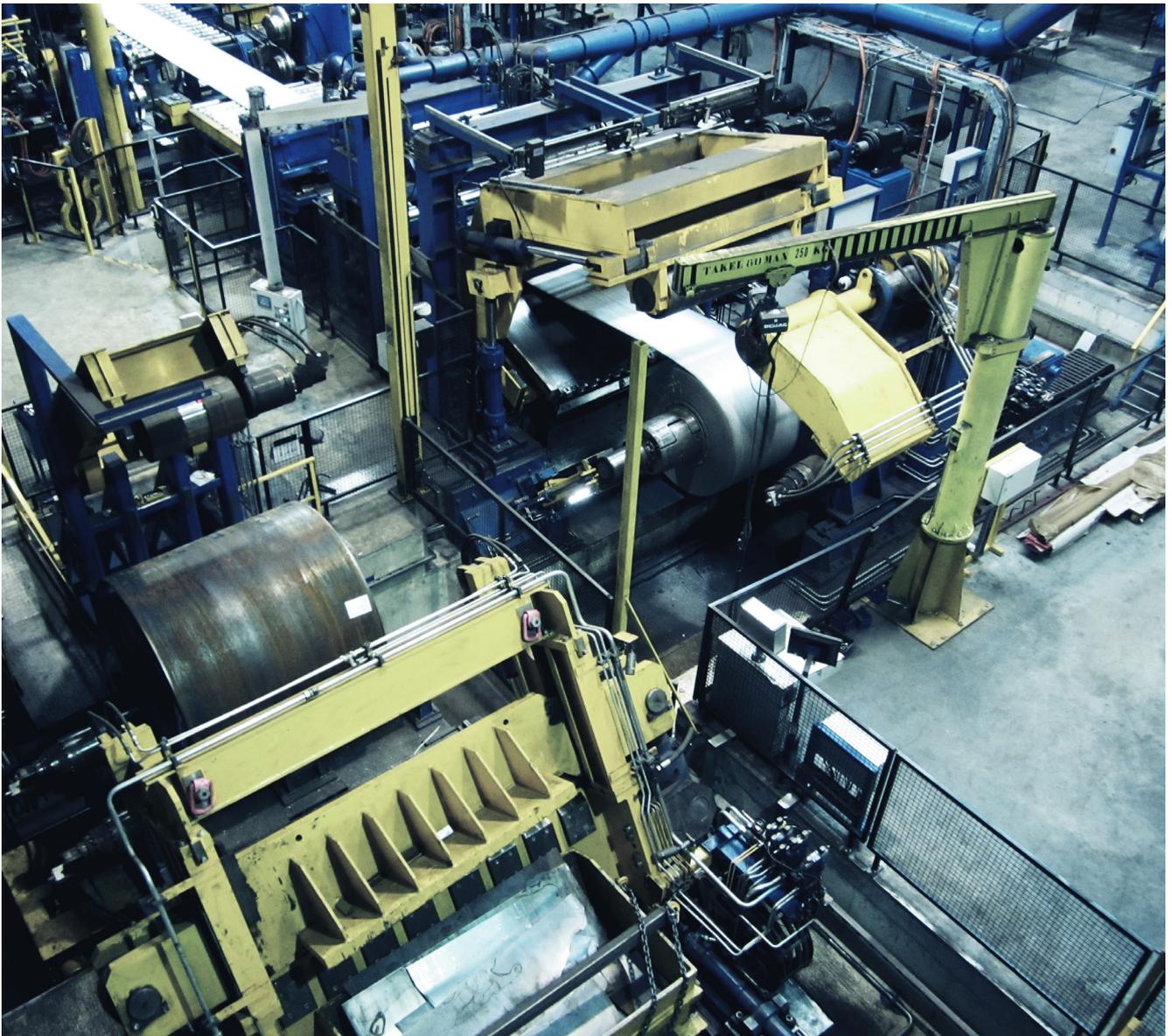
ANDRITZ Metals offers a respectable range of finishing lines for all kinds of materials. Cold-rolled strip, stainless steel, copper or aluminum, and hot-rolled strip can be handled with our slitting lines, cut-to-length lines, and tension levelers



Cut-to-length lines - Innovative and frequently proven designs

ANDRITZ Metals Germany manufactures cut-to-length lines for steel, stainless steel, aluminum, as well as all types of non-ferrous metals in strip widths from 600–3,200 mm and strip thicknesses from 0.1–25.0 mm. Our references include steel plants, steel service centers,

the automotive industry, and metal processors of all kinds. Individual customer solutions distinguish our innovatively designed, frequently proven, and highly productive lines.



Strip feed to a cut-to-length line for metal plate

Heavy plate up to 25 mm thick can be produced very effectively from coil. ANDRITZ Metals Germany has thus extended its existing portfolio for cut-to-length lines to include this material thickness. The principle with precision leveler for strip, flying shear and vacuum

stacking technology, which has been successful so far, was retained. This plant design also guarantees planar metal sheet with low residual stress, even at these thicknesses and higher strengths, for optimum further processing.

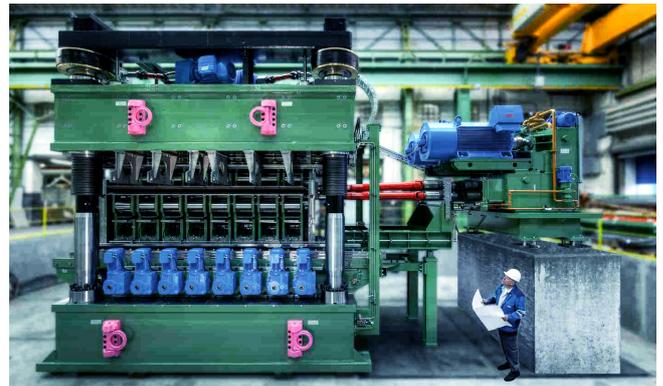


- A** Cut-to-length line up to 25 mm
- B** Exchangeable cassette for a precision leveler.
- C** Blank cutting line for the automotive industry

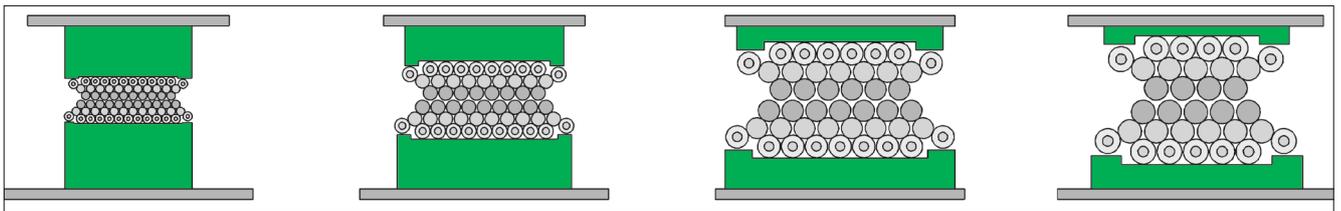
Precision levelers - a solid range of solutions for all kinds of material

LEVELERS

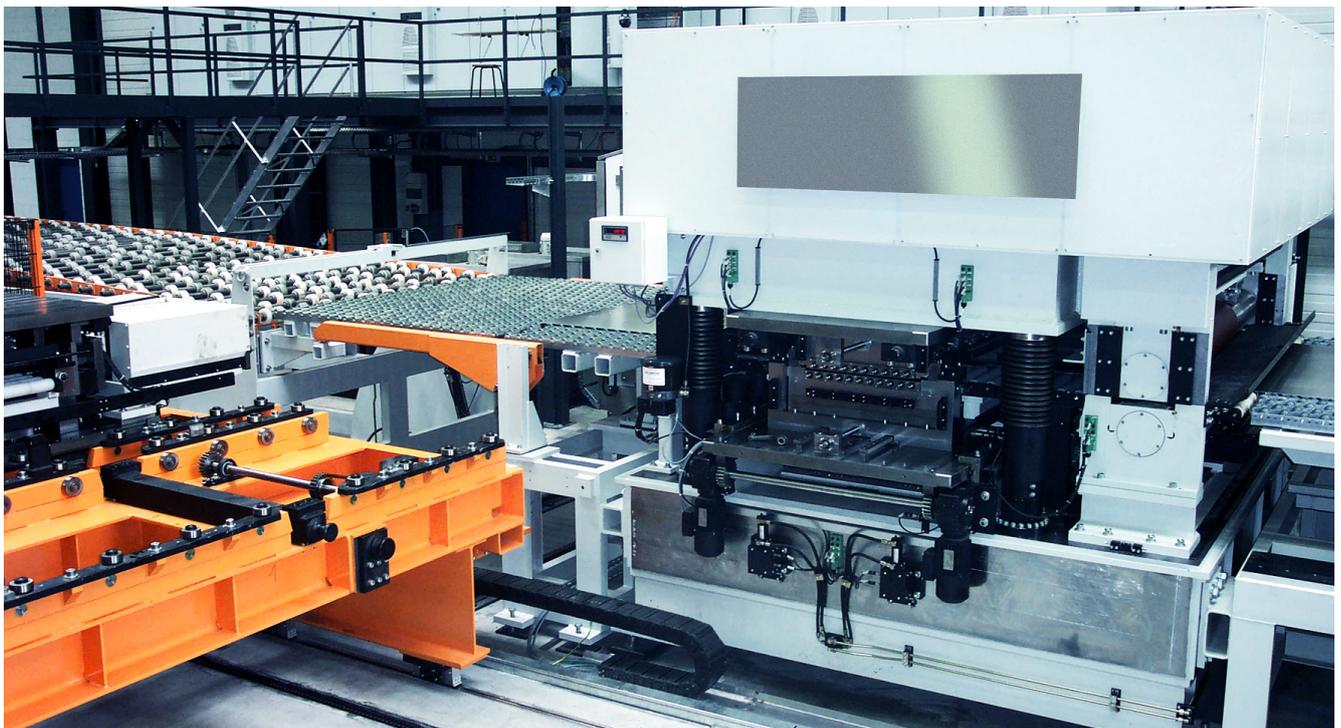
The leveler is an essential part of the cut-to-length line. The accuracy of the blanks is determined here. ANDRITZ Metals Germany supplies stand-alone machines as well as levelers in cut-to-length lines. With ANDRITZ Metals Germany, you have access to a patented system that can cover a thickness range from 0.5–80.0 mm. Optionally available 6-high designs, roll crown adjustment systems as well as quick-change systems complete the range of designs.



Leveler for plates with a thickness up to 60 mm



Cassettes with different roll diameters can be used in the same leveler



Leveler for automotive sheets



Cut-to-length shears and stackers for precise cutting results

CUT-TO-LENGTH SHEARS

Depending on the application, our lines are equipped with stationary, rotating, or flying shears. Stationary and flying shears are operated with special servo hydraulic systems that provide precise cutting results at maximum speed. The drive of the rotating shears consists of 2 servomotors, which achieve a maximum in dynamics and precision.

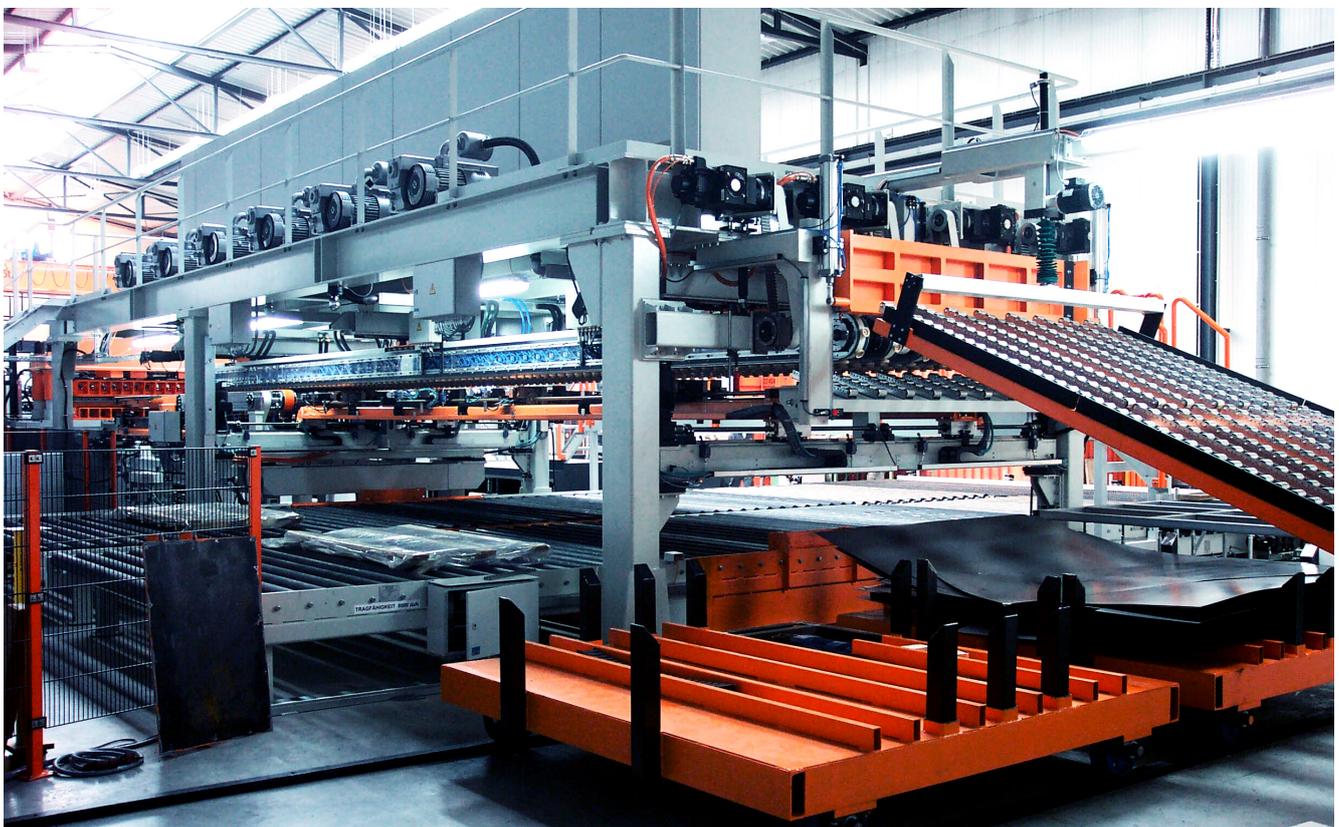
STACKERS

We select the stacking procedure according to the product. The following options are available:

- Magnetic or vacuum belt stackers in start-stop or continuous design
- Transfer stackers for heavy plates
- Brush stackers as universal solution
- Pivoting arm stackers for simpler applications



Destacking area



Vacuum belt stacker

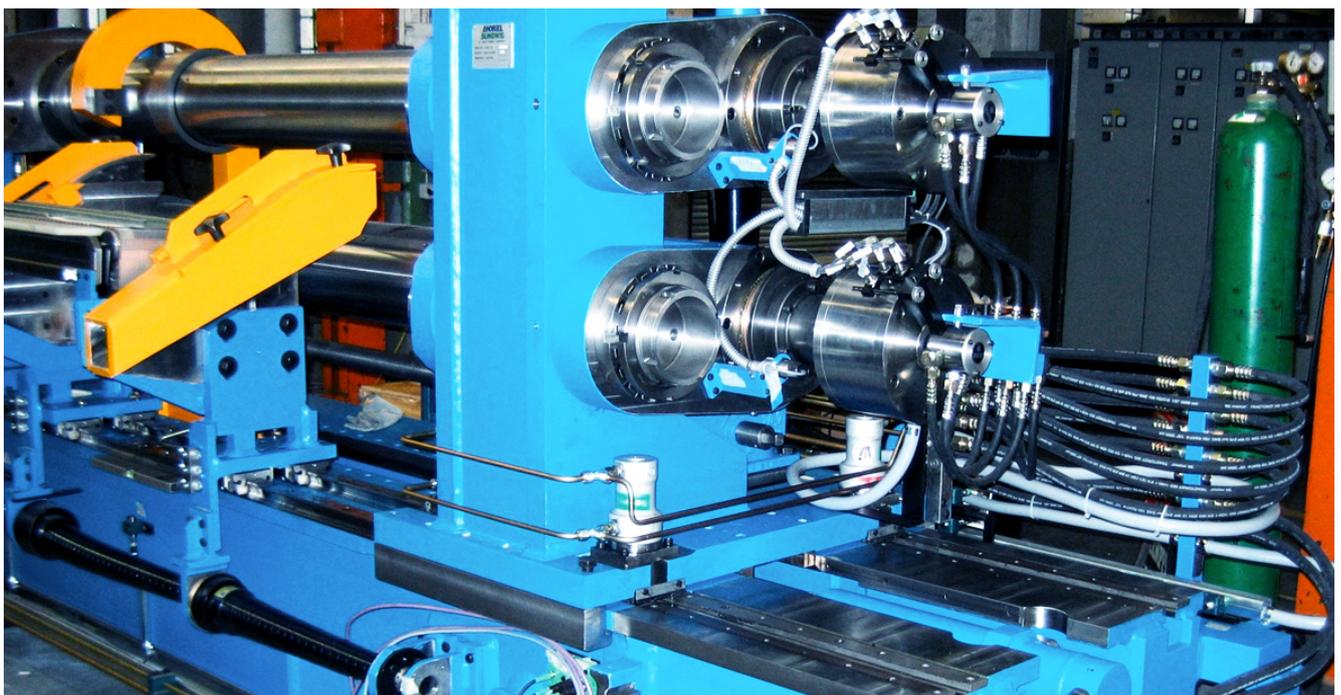
Slitting lines for every kind of metal strip and in all required dimensions

ANDRITZ Metals Germany manufactures slitting lines for all dimensions, from hot-rolled strip to thinnest cold-rolled strip, from aluminum to stainless steel in strip widths from 650–2,150 mm and strip thicknesses from 0.1–16.0 mm. Combined technology and pioneering systems are specially tuned to the requirements of our customers.

- Innovative solutions
- Intelligent automation
- High availability
- Low operating costs



Rewinding group in a slitting line for stainless steel



Fully automatic tool change





Looping pit equipment

CHARACTERISTIC FEATURES

- Fully automatic strip threading systems
- Special braking units for strips with high surface finish quality
- Non-contact braking units for the aluminum industry
- Automatic knife change
- Knife arbors with quadruple radial precision bearings
- Automatic clamping and unclamping of the cutting tools on the knife arbor
- Automatic strip transfer systems
- Fully automatic strapping on turnstile (SUNDWIG patent)
- Underfloor edge scrap baler with automatic feed (SUNDWIG patent)



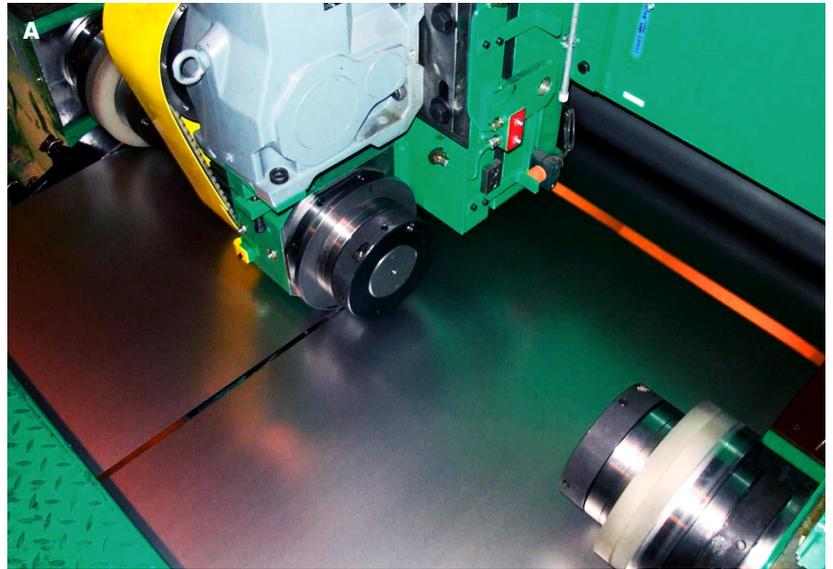
Slitting shear for hot-rolled strip with automatic tool change turnstile

Inspection, recoiling, and edge trimming lines

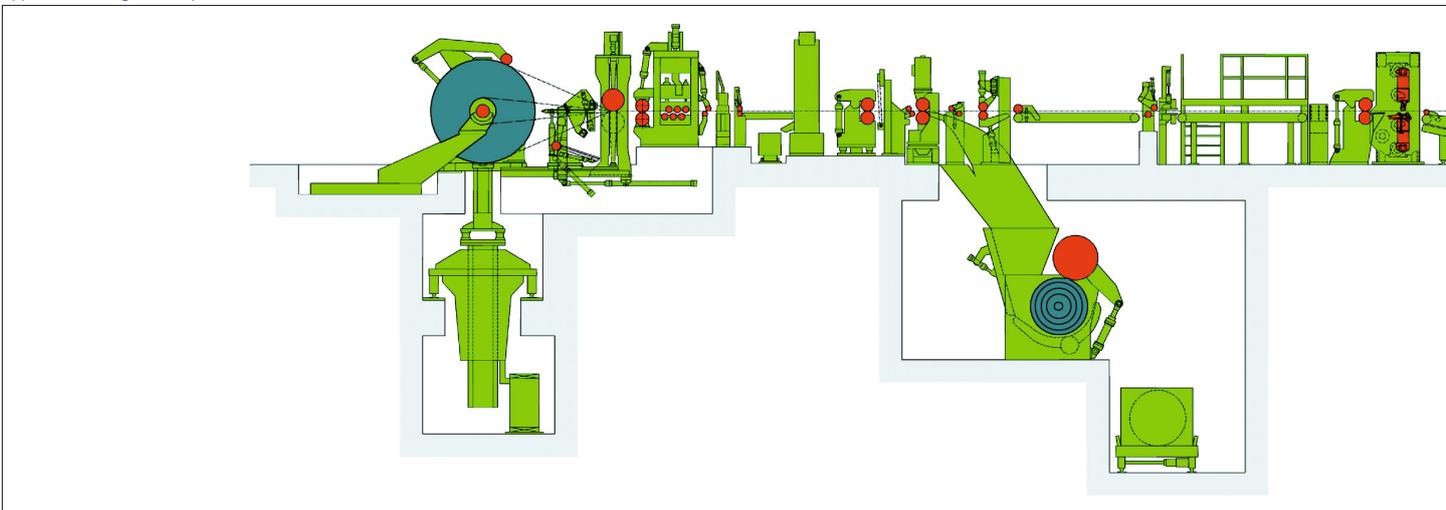
High quality of the final product with simultaneous high throughput capacity is a characteristic feature of ANDRITZ Metals Germany lines. These lines are used for cold-rolled wide strip to be processed in the automotive industry, but also for all other product ranges. Strip widths from 650–2,350 mm and strip thicknesses from 0.1–6.0 mm are edge-trimmed and rewound on ANDRITZ Metals Germany lines at speeds up to 1,500 m/min.



- A Recoiling with center cut
- B Edge trimmer
- C Double-headed edge trimmer



Typical slitting line layout



Patented units ensure maximum flexibility

CHARACTERISTIC FEATURES

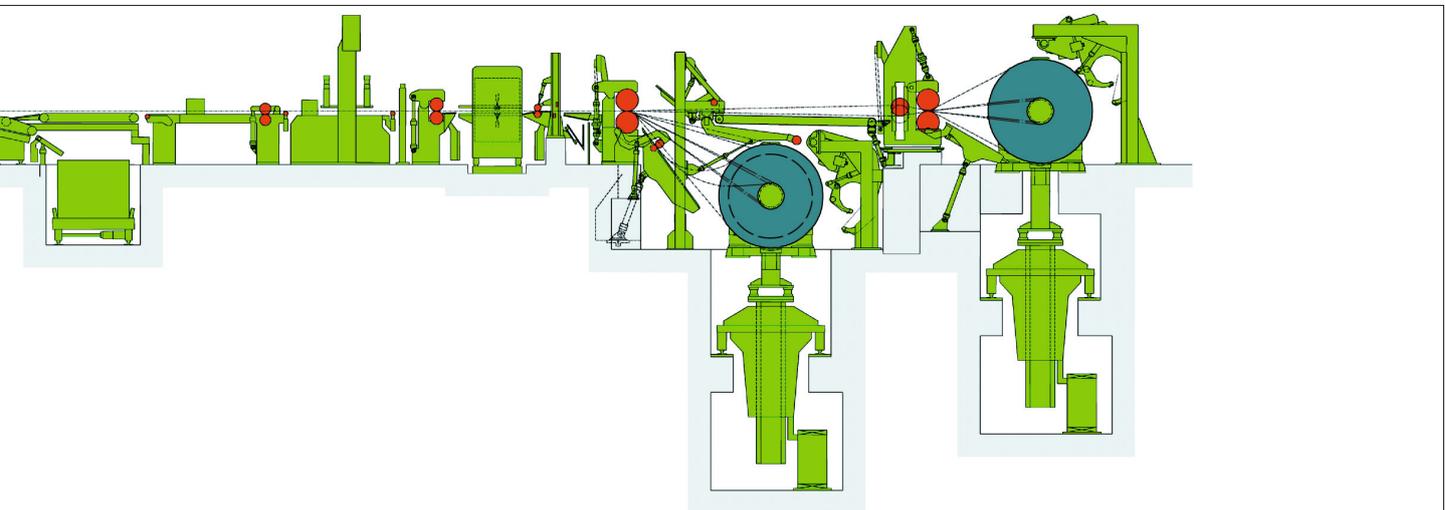
- Highly automated to reduce non-productive times
- Separate coil preparation system
- Automatic coil peeler and transfer system for over-payoff and under-payoff uncoilers (SUNDWIG patent)
- Strip run control system in front of the edge trimmer by means of combined steering and pinch roll unit
- Edge trimmer with high-precision bearings for almost burr-free edge trimming by edge trimmer unit swiveling through 180° and fully automatic adjustment system for strip width, knife clearance, and knife overlap
- Edge scrap baler with driven boundary disks (SUNDWIG patent) assures fully automatic operation without manual intervention
- Strip inspection with special lighting technology
- Continuously operating cut-to-length shear for defective strip sections
- Integrated welding machine
- Two recoilers for high flexibility
- Non-contact strip marking equipment
- Electrostatic strip oiling equipment
- Product tracking by host computer



Rotating shear for fast scrap cutting in inspection lines



Inspection of strip surface





ANDRITZ METALS

ANDRITZ Metals is the technology and global market leader in forming equipment through the Schuler Group, in which ANDRITZ has a stake of more than 95 percent. Schuler offers presses, automation solutions, dies, process know-how, and services for the entire metal forming industry. Its customers include car manufacturers and their suppliers, as well as companies in the forging, household appliance, packaging, energy, and electrical industries. Schuler is also the market leader in minting technology and offers system solutions for various high-tech segments.

In addition, ANDRITZ Metals is one of the leading global suppliers of complete lines for the production and processing of cold-rolled strip made of carbon steel, stainless steel, aluminum, and other non-ferrous metals. The lines comprise equipment for pickling, cold rolling, annealing and heat treatment, surface finishing, strip coating and finishing, punching and deep drawing, and regeneration of pickling acids. The business area also supplies turnkey furnace systems for the steel, copper, and aluminum industries, burners and refractory products, welding systems, as well as comprehensive services for the metal working industry.

ENGINEERED SUCCESS FOR FLAT PRODUCT PROCESSING

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