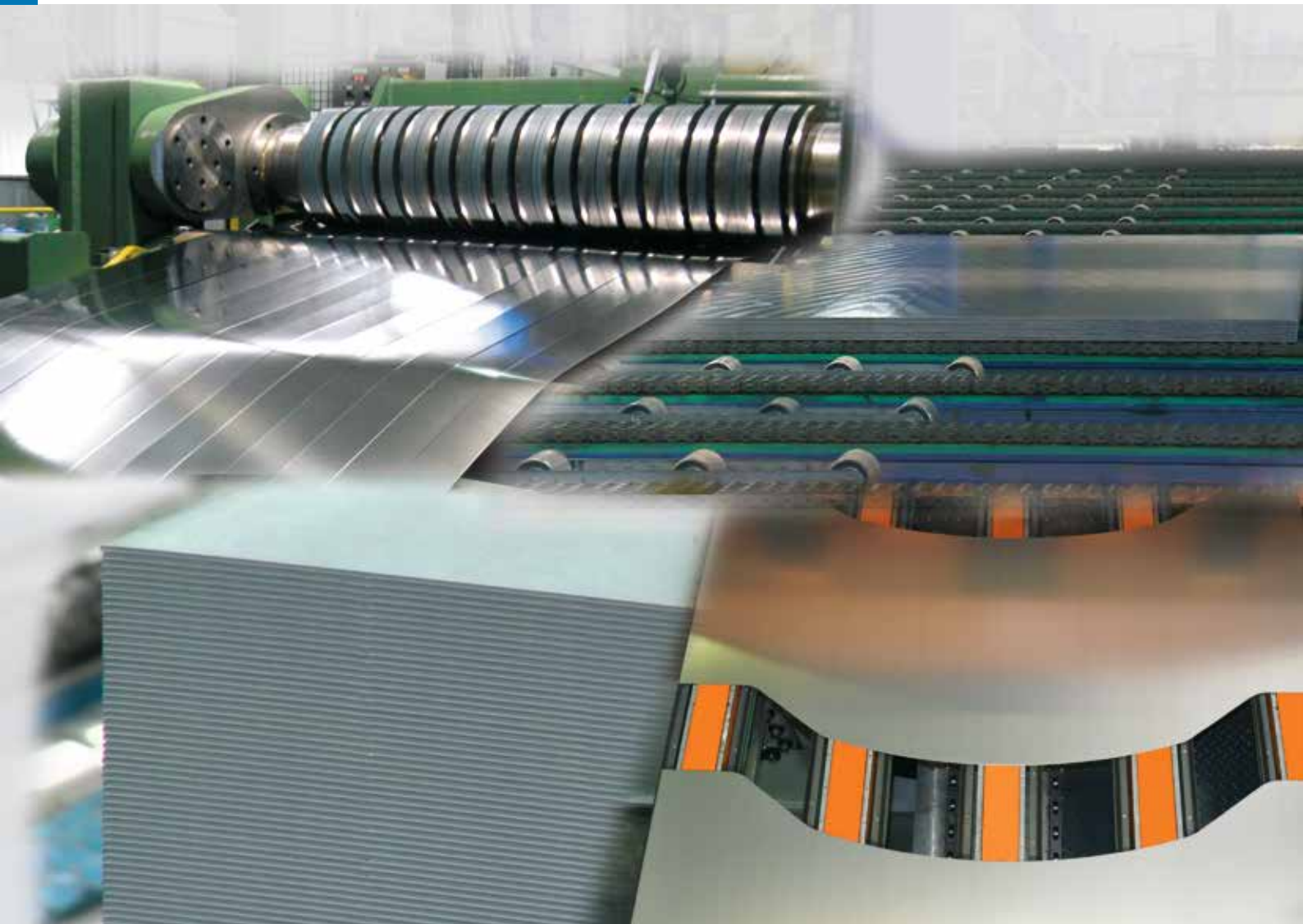


Finishing lines

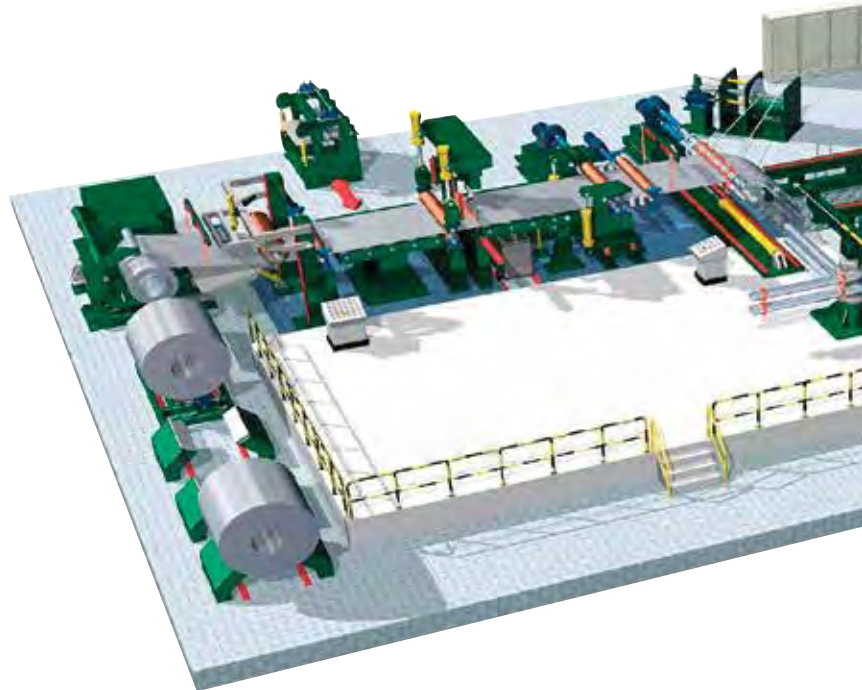
Cut-to-length, slitting, leveling, stacking, inspection, recoiling

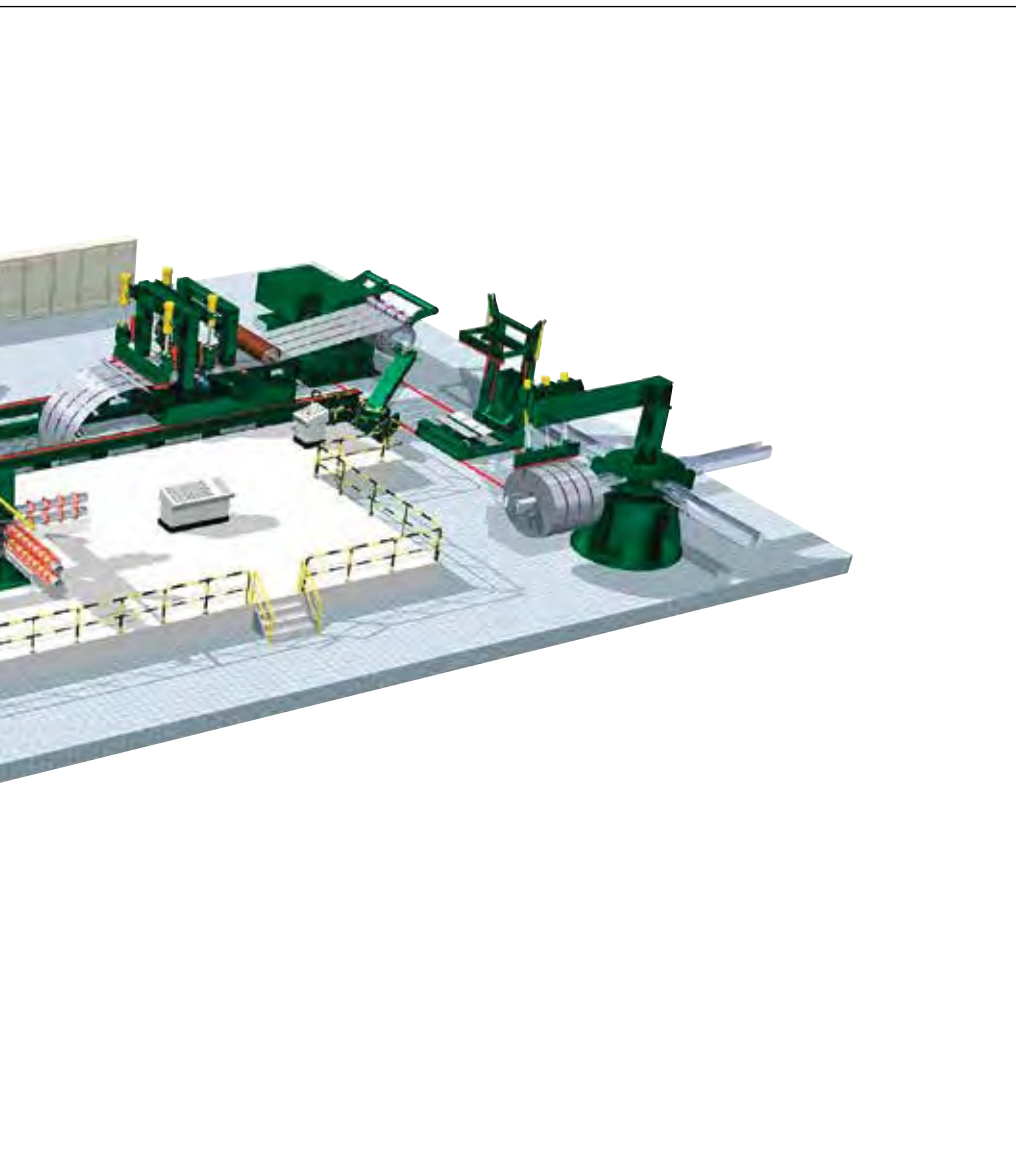


Finishing lines for steel, stainless steel, and non-ferrous metals

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◀ Typical slitting line layout

Cut-to-length lines

Innovative and frequently proven designs

ANDRITZ Sundwig 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. Indi-

vidual 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 Sundwig 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



▲ Cut-to-length line up to 25 mm



▲ Exchangeable cassette for a precision leveler



▲ Blank cutting line for the automotive industry

Precision levelers

a solid range of solutions for all kinds of material

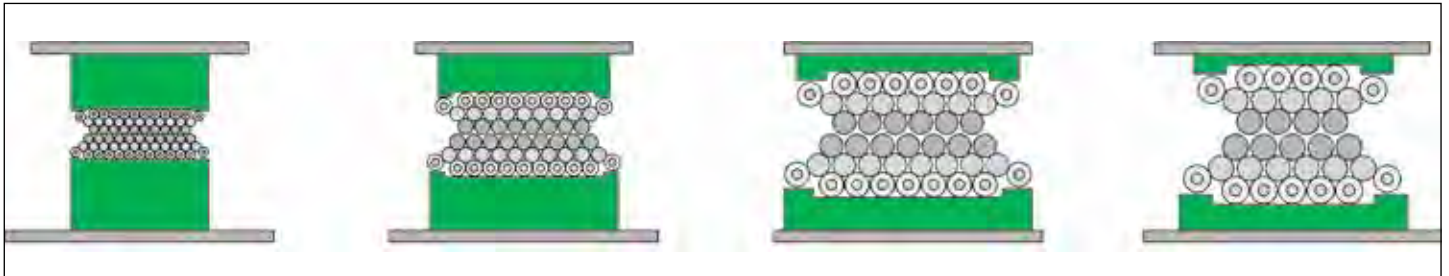
Levelers

The leveler is an essential part of the cut-to-length line. The accuracy of the blanks is determined here. ANDRITZ Sundwig supplies stand-alone machines as well as levelers in cut-to-length lines. With ANDRITZ

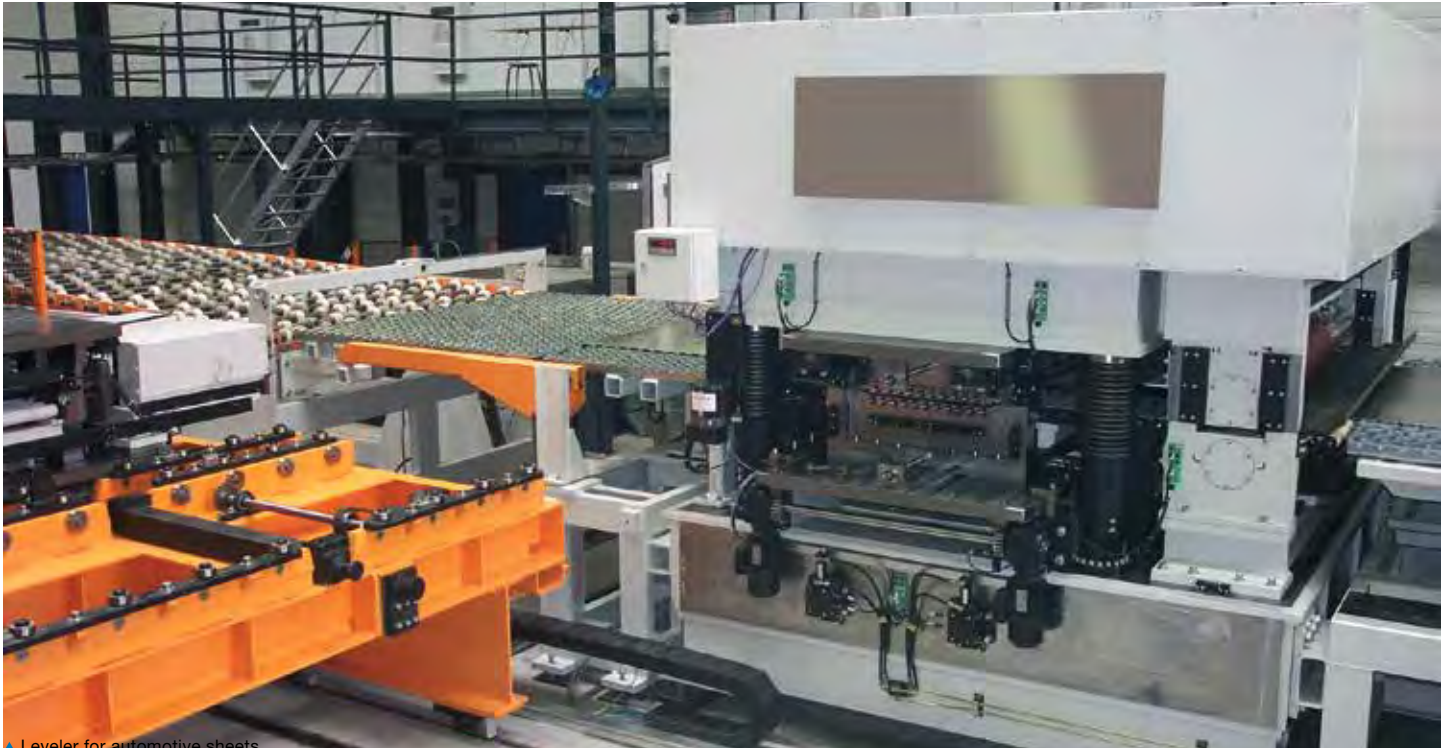
Sundwig, you have access to a patented system that can cover a thickness range from 0.5–80.0 mm. Optionally available 6-high designs, roll crown adjustment systems as well as quick-change systems complete the range of designs.



▲ 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



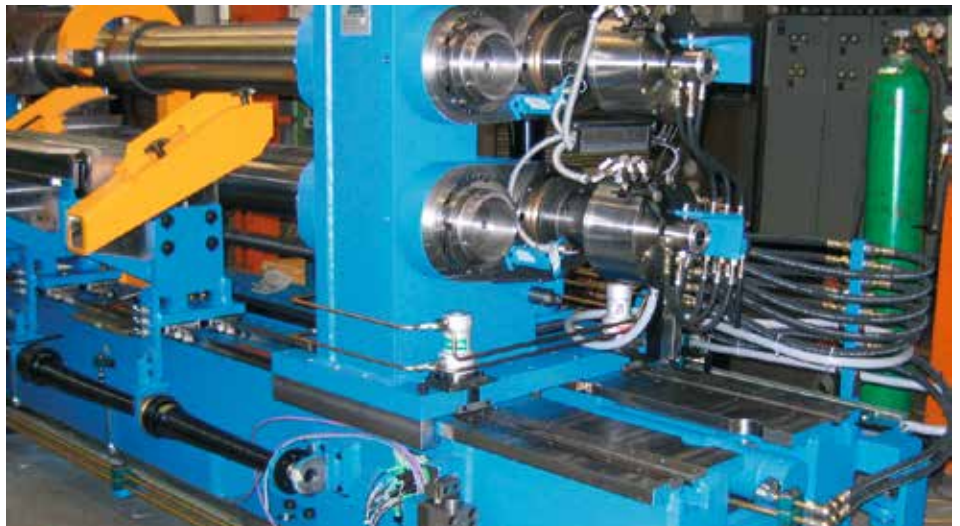
◀ Vacuum belt stacker

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

ANDRITZ Sundwig 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 Sundwig 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 Sundwig lines at speeds up to 1,500 m/min.



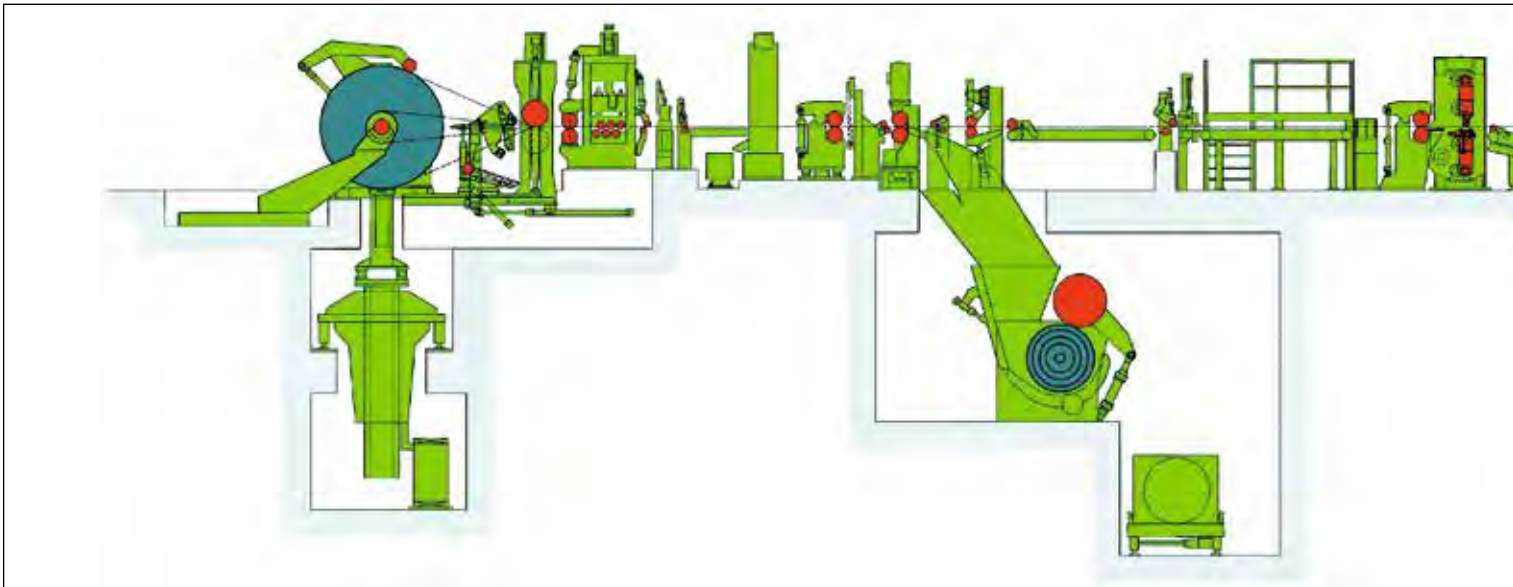
▲ Recoiling with center cut



▲ Double-headed edge trimmer

◀ Edge trimmer

▼ Typical slitting line layout



Patented units

ensure maximum flexibility



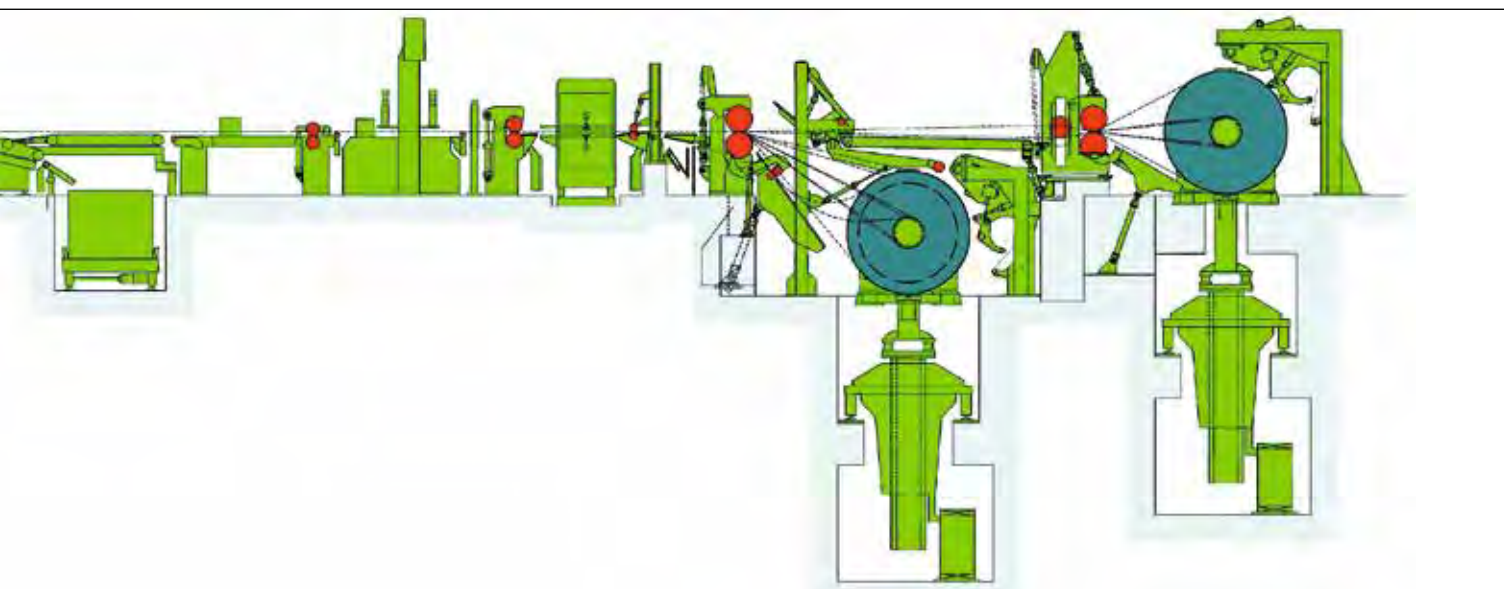
▲ Rotating shear for fast scrap cutting in inspection lines



▲ Inspection of strip surface

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



Supply program

Turnkey systems

for the processing of steel, stainless steel, coated metals, non-ferrous metals, and special materials

Cold rolling mills

for reducing, skin passing, cladding, and finish rolling in 20-high, S6-high (18-high), 12-high, 6-high, 4-high, and 2-high designs, as well as combinations of 2-high/4-high or 4-high/S6-high design, available as one-way, reversing or tandem mill, inline and offline

Shape control systems

for cold-rolling mills and strip processing lines

Roll grinders

Strip processing lines

for annealing, pickling, shot blasting, metal coating, hot-dip galvanizing, plastic coating, painting, surface conditioning, tension leveling, coil preparation, coil build-up, grinding, polishing, etc.

Finishing lines

for cutting-to-length, slitting, side trimming, rewinding, and inspection, blanking lines, precision-levelers

Automation

Complete electrical equipment including drive systems, process automation and level-2 systems for cold-rolling mills, strip processing lines, and finishing lines. Technological control systems for cold-rolling mills, such as thickness control systems (AGC) as well as fully automatic roll change systems for rolling mills

Modernization of existing production equipment

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