

EUROLLS

Engineering Performance in Tube Mill Rolls

EUROLLS

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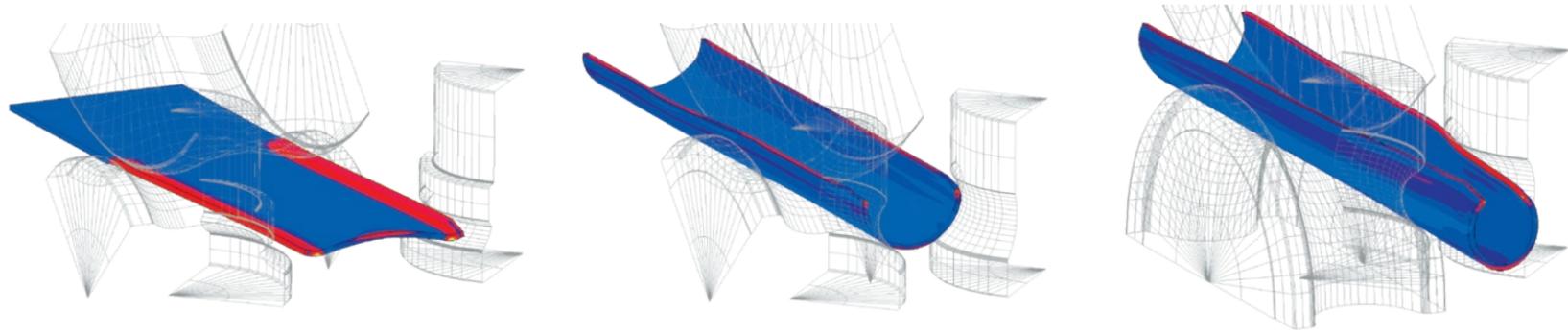
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Who We Are

Eurolls is a specialized manufacturer of rolls and components for tube processing, internationally recognized for the reliability of its solutions and its performance-oriented engineering approach.

Extensive process expertise enables the development of rolls compatible with any tube mill configuration, ensuring production continuity, forming accuracy, and long service life. Within the group, Eurolls operates an in-house carbide powder sintering plant, enabling advanced expertise in the production of HM (hard metal) rolls for the most demanding applications. The internal heat treatment and coating division, together with partnerships with qualified suppliers, further strengthens control over materials and performance. An integrated system combining engineering, manufacturing, materials, and surface technologies supports customers throughout the entire product life cycle.

Engineering

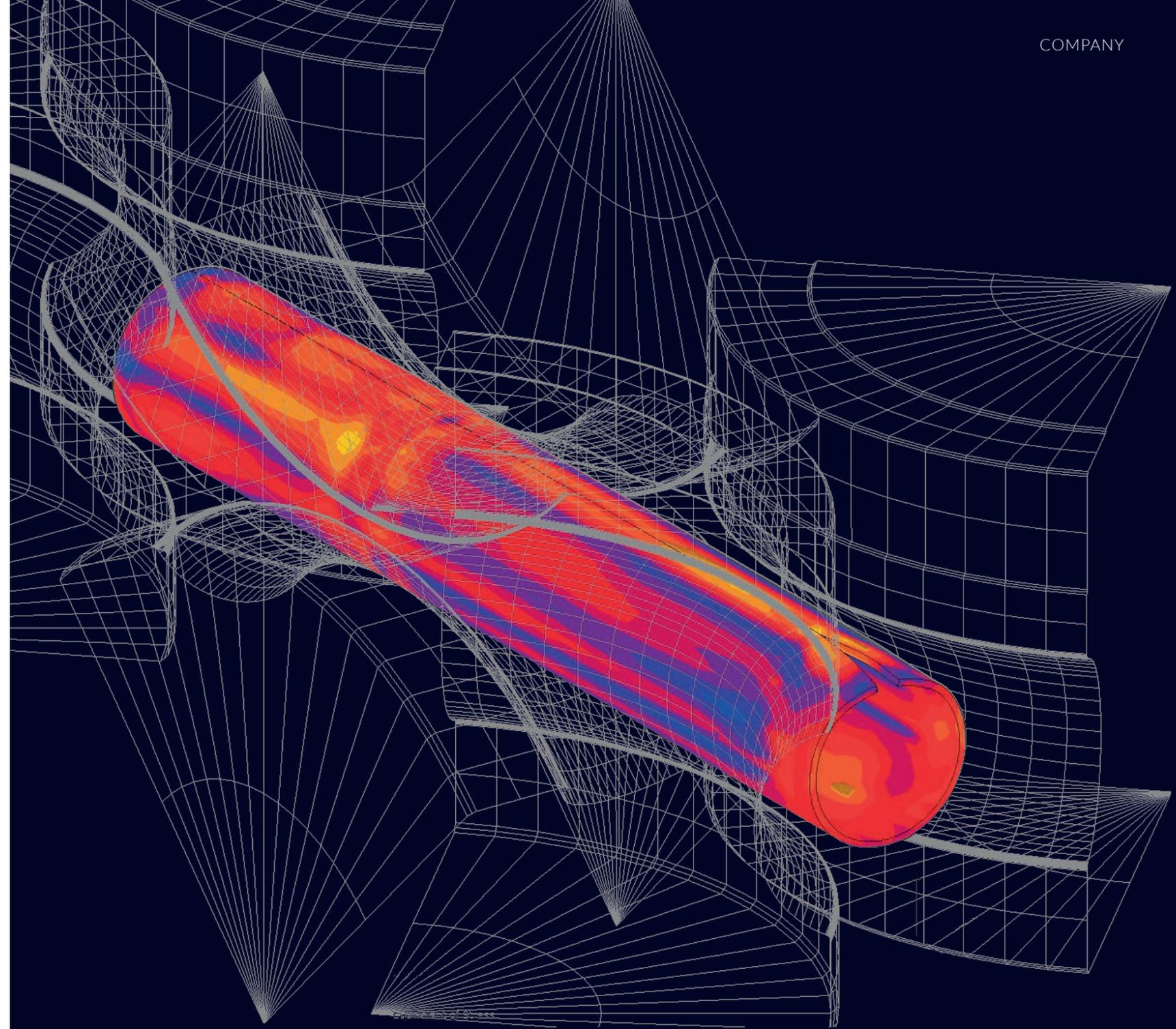


For over forty years, Eurolls has been developing rolls for welded tubes, special profiles, and open profiles, working with a wide range of materials (including carbon steels, stainless steels, aluminum, and titanium) and welding technologies such as HF (High Frequency), TIG, and laser.

Solutions are compatible with all major tube mill configurations, including cage forming and downhill systems.

Engineering is based on comprehensive technical analysis of the forming process. Proprietary software and FEM simulations allow evaluation of material characteristics, applicable standards, and deformation behavior, defining the most suitable roll flower design.

Designs are optimized to ensure forming stability, consistent weld quality, product compliance, and correct load distribution, reducing localized deformation and increasing roll service life. Upon request, tooling can be supplied complete with accessories, simplifying installation and alignment while reducing scrap during start-up.



Manufacturing



Manufacturing, from raw material selection to final machining, is managed through a structured and fully traceable in-house process, ensuring lifetime data availability.

Incoming steel bars undergo chemical and physical analysis, followed by dedicated heat treatment cycles with multiple tempering stages. All processes are continuously monitored and documented to guarantee the required hardness and microstructure.

Finishing operations and dimensional inspections ensure consistent quality, while accessories are protected against

oxidation. The production system is designed to ensure reliability and long-term durability.

In addition to standard supplies, Eurolls is capable of manufacturing large-diameter rolls up to 1600 mm outer diameter, for tubes up to 28”.

Materials

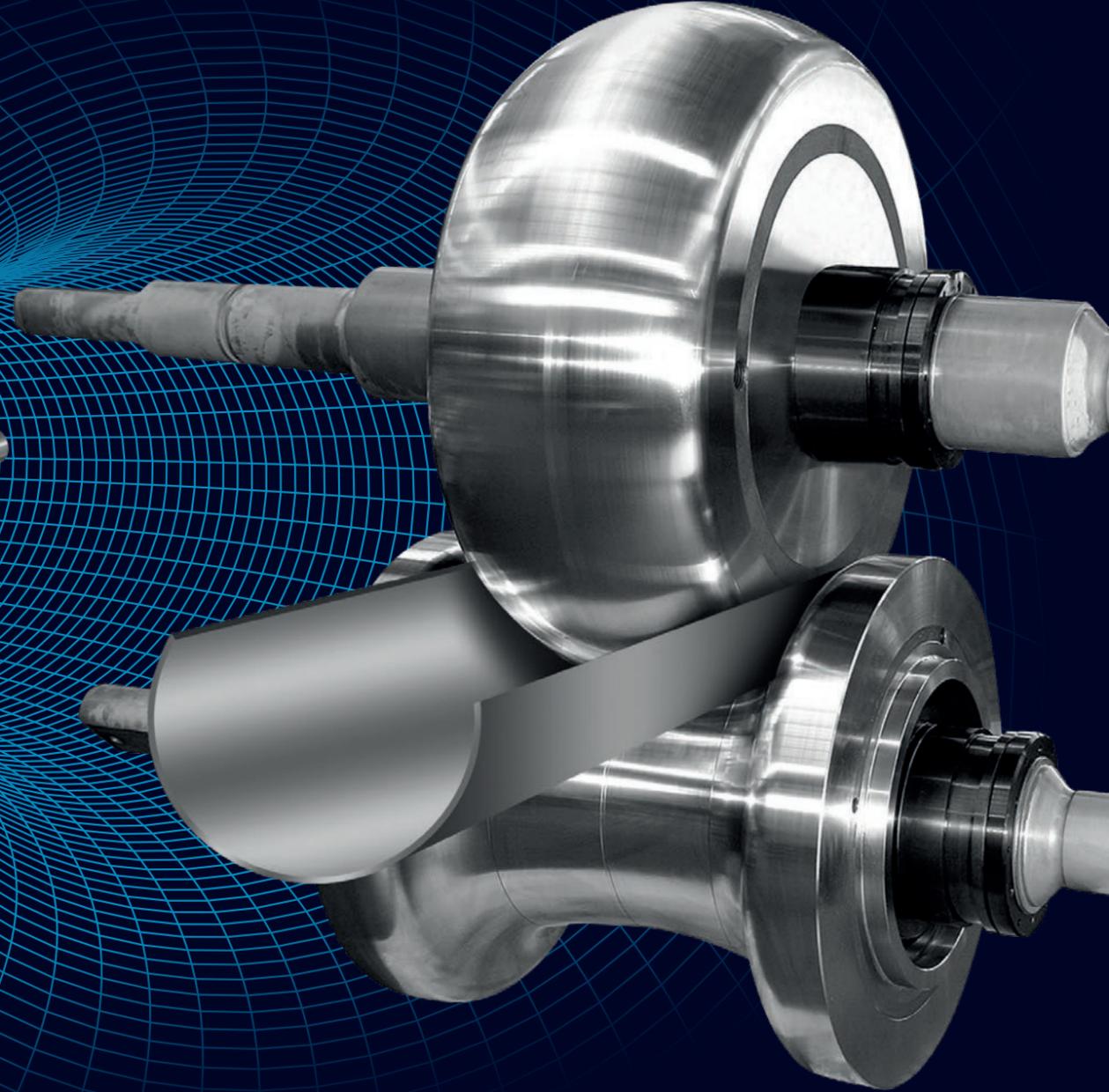


Material selection is defined according to tube material, welding technology and operating conditions.

Eurolls uses high-performance tool steels (1.2379, 1.2343, 1.2365, etc.), tungsten carbide, and compound solutions combining steel and hard metal in the most highly stressed areas, specifically targeting wear resistance, compressive loads, and thermal stresses.

The integration of hard metal significantly increases service life compared to traditional steel solutions, improving reliability and production continuity.

Roll Types



All Eurolls rolls are designed to ensure geometric control, profile stability, and final product quality, even in the most demanding applications:

- FORMING ROLLS
- BREAKDOWN ROLLS
- SIZING ROLLS
- FLOATING FLANGED ROLLS
- PINCH ROLLS
- HYPERBOLIC ROLLS
- STRAIGHTENING ROLLS (FOR TUBES AND BARS - HYPERBOLIC AND STANDARD)

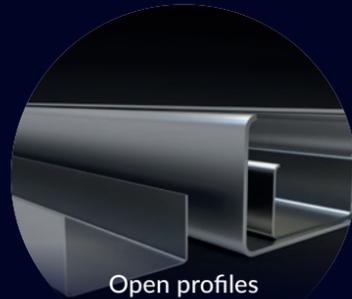
Applications



Furniture and design components



Welded tubes



Open profiles



Structural applications

Eurolls solutions are used across multiple industries and production configurations



Heating elements



Seamless tubes

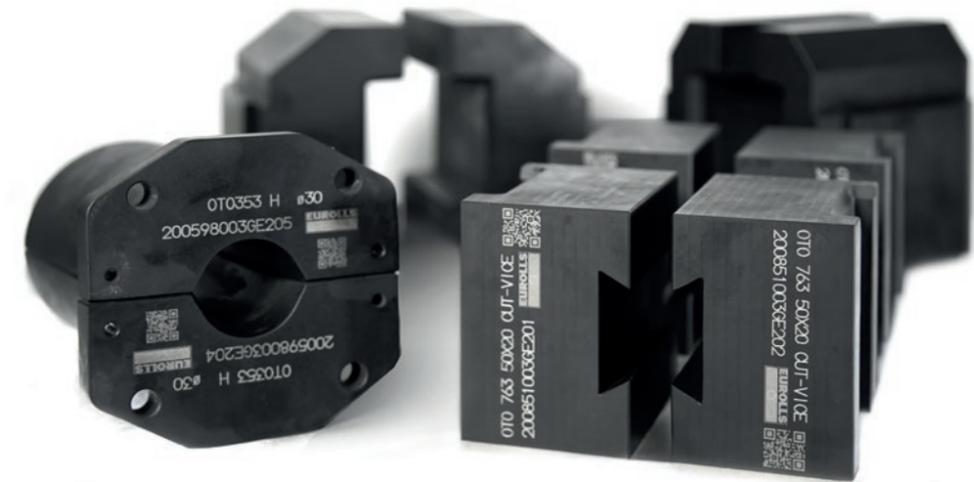


Automotive



Solar sector (octagonal tubes)

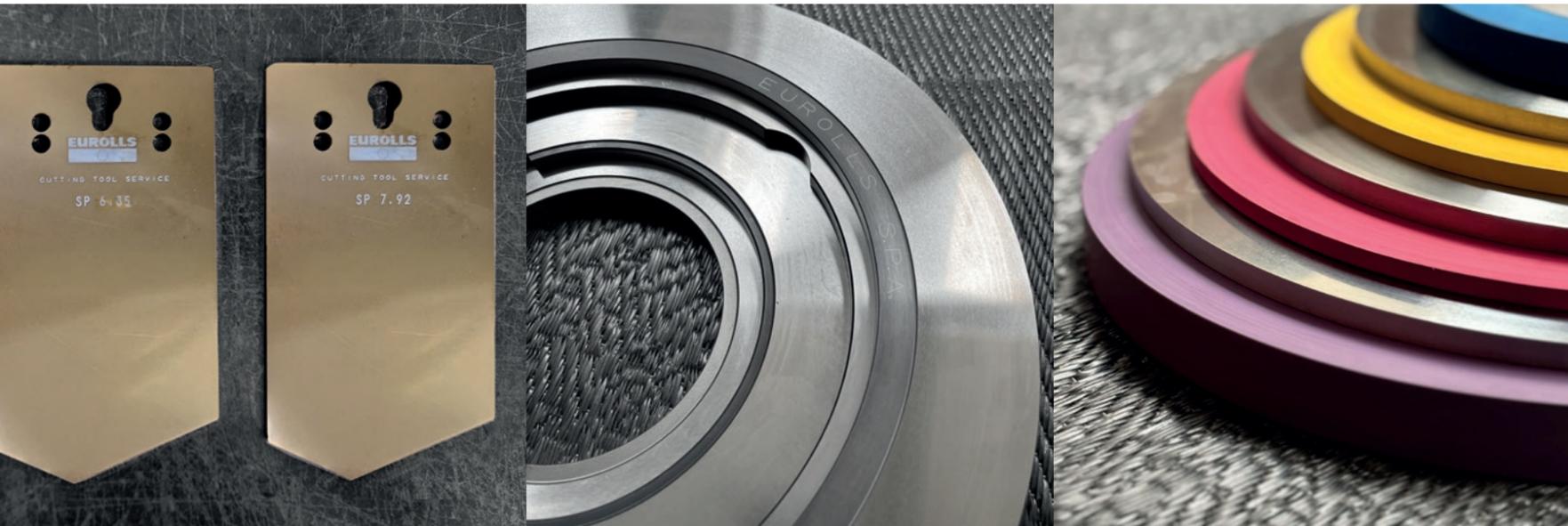
Accessories



To complete the range, Eurolls manufactures a series of accessories and tooling designed to integrate perfectly with the rolls, solutions developed to simplify operations, improve alignment, and ensure technical consistency across the entire production line:

- SPACERS
- CUTTING CLAMPS
- WELDING CLAMPS
- ROLL MOUNTING ACCESSORIES
- PROFILE INSPECTION GAUGES
- ON REQUEST: TURK'S HEAD HOUSINGS

Additional products for tube lines



Complementing its tube processing range, Eurolls supplies dedicated components for production lines:

- SLITTING KNIVES FOR SHEET CUTTING (SLITTING LINES)
- SPACERS (RUBBER-COATED AND STANDARD)
- SHEAR KNIVES FOR TUBE CUTTING WITH PVD COATING



Heat treatments and coatings



Heat treatments and surface coatings are an integral part of Eurolls product development, significantly contributing to performance, component durability, and reduced downtime. The most suitable process is selected according to the customer's production requirements.

- SPECIAL AND ELECTROPLATING HEAT TREATMENTS
- ADVANCED SURFACE COATINGS (PVD, APS, HVOF, LC, MIG)

One single partner for the tube production process

Eurolls provides comprehensive support throughout the entire product life cycle.

From roll engineering to auxiliary components, every Eurolls solution is developed to ensure technical consistency, functional integration and reliability throughout the entire production line.

Services include on-site data collection, commissioning assistance, roll setup support, and training for correct roll assembly.

Data management, process history tracking, and regrinding services for steel and hard metal rolls are also provided.

A global support network reinforcing Eurolls' role as a reliable technology partner.

For the knife sector, in addition to regrinding, Eurolls offers recovery of rubber-coated spacers.

With operational facilities in Italy, Mexico, Brazil, the United States, and China, Eurolls ensures qualified technical assistance and a direct presence in key international markets.



Global vision

With 7 production plants in Italy, subsidiaries in Brazil, Mexico, China, and the USA, and a global network of agents and distributors, Eurolls delivers complete and efficient service worldwide.

Our reliability and customer dedication have earned us the trust of over 2,000 clients worldwide, with a production capacity exceeding 100,000 rolls per year.



PLANTS

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Via Degli Ortolani, 54
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Via Arturo Malignani, 14
33040 Attimis UD

Steel Products
Via Divisione Julia, 22
33029 Villa Santina UD

Special Products
Via Divisione Julia, 35
33029 Villa Santina UD

Finishing and Grinding Processes
Via Prato 28A
33010 Resia UD

BRANCHES

EUROLLS CARBIDE S.R.L.

Carbides Sintering Plant
Viale Industria, 41
20010 Boffalora sopra Ticino (MI)

EUROLLS INDUSTRIAL

Wire Machines Production Plant
Via Str. di Salt, 66
33047 Remanzacco UD

QSTAHL

Special Products
Via Divisione Julia, 33
33029 Villa Santina UD

EUROLLS DO BRASIL LTDA

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EN_Rev0_04.2026

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