



TRAFILATI
MARTIN



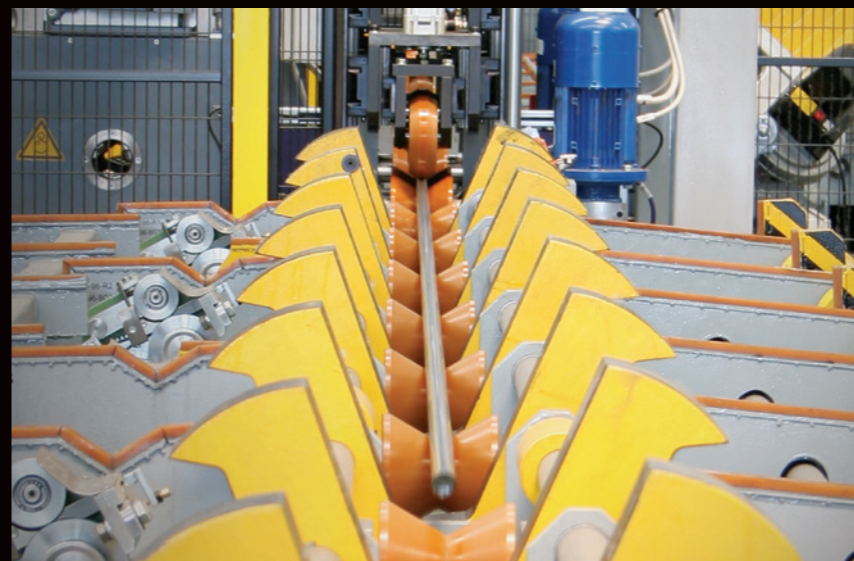
COLD-FINISHED BARS



COIL-to-BAR DRAWING

Drawn bars are cold-finished products obtained by cold-deformation process of the wire rod through a die that reduces the original diameter. This process achieves the calibration of the wire into the final diameter required. We can manufacture bars in a wide range of diameters, with tight tolerances and optimized increase in the mechanical properties depending on the diameter reduction ratio to be carried out.

Summary of Product Portfolio Capability:
Coil-to-Bar \varnothing 14 ÷ 36 mm
Max. Accessible Bar Length to process: 8.000 mm.



COIL-to-BAR & BAR-to-BAR PEELING

Peeled bars are manufactured through a cold-finishing process that removes the outer surface of the bar (originally rolled) thanks to a special tool. After the peeling we carry out the reeling process in order to improve straightness and surface roughness.

Summary of Product Portfolio Capability:
Bar-to-Bar \varnothing 16 ÷ 70 mm
Coil-to-Bar \varnothing 10 ÷ 25 mm
Max. Accessible Bar Length to process: 8.000 mm.



Trafilati Martin S.p.A. was founded in Sept 1996 as ORI Martin Group's core competence for production of cold-finished special steels. Trafilati Martin S.p.A. has a production unit based in Cologne (25 km far from Brescia). The main core business is made of: drawn, peeled material and, thanks to integrated facilities highly expertized on steel machining, also material with added features for supply of cut, machined and gun-drilled bars according to Customer's requirements.

SAWING LINES

The metal disc saws guarantee a perfect execution of cut pieces without burrs. Cleaning and deburring if necessary are treated offline to guarantee a perfect and ready for use product.

DRILLING LINES

Our combined multi-drilling machines equipped with CNC offer a small and medium production series guaranteeing absolute accuracy for the production of both blind holes and holes which enter the bar for a length up to 1.200 mm.

LATHES

In our department we are equipped with high precision lathes to follow Customer's build-to-print drawings that are guaranteed by CNC machines for diameters up to 53 mm.



Cutting



Machining



Machining

PICKLING - SHOT BLASTING

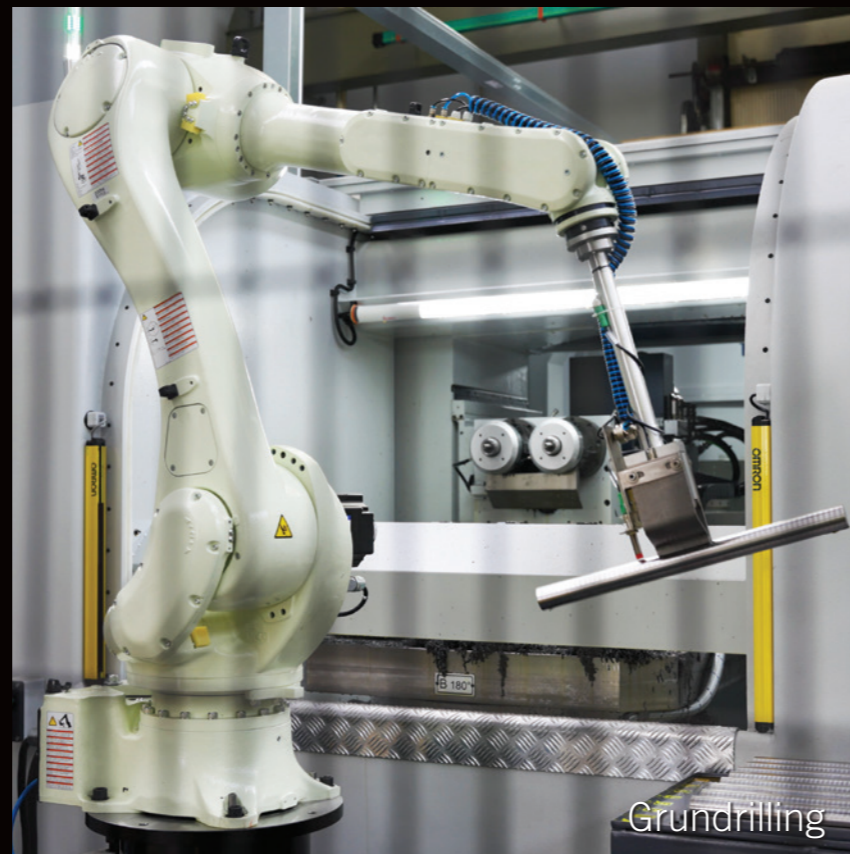
Pickling is available as chemical and mechanical (shot blasting). Surface treatment of wire rods: phosphating, hot-soaping, polymer and lime-based.

HEAT TREATMENTS

In our standard offer we also include heat treatments on both drawn and peeled bars, which include annealing (from bell and continuous furnaces), quenching and tempering, normalizing and stress relieving (from induction heating lines).

NDT CONTROLS

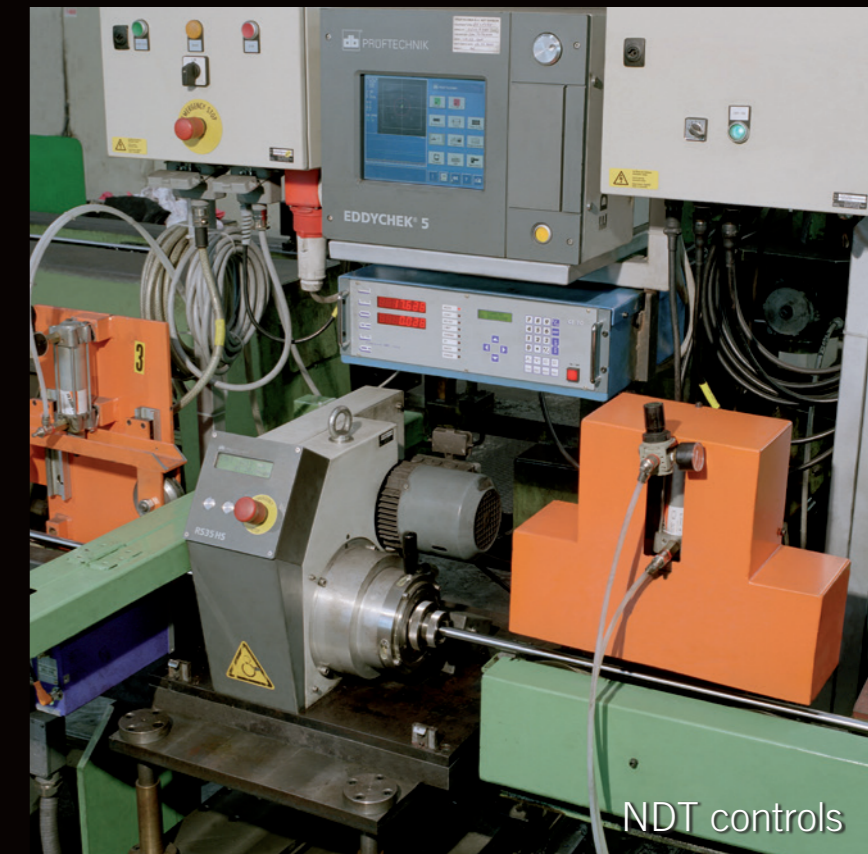
In our production units we assure the product quality by the assistance of not destructive controls made with Eddy current devices that check longitudinal and transversal surface defects.



Grunddrilling



Treatments

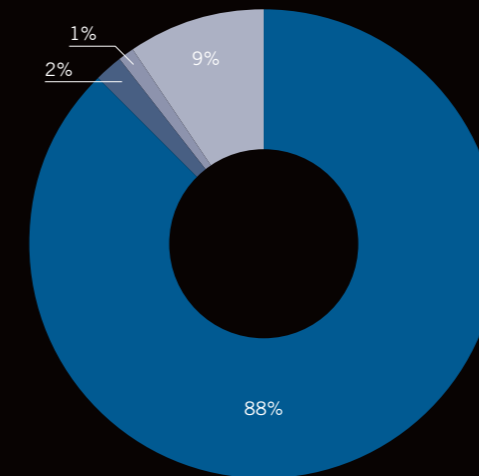


NDT controls

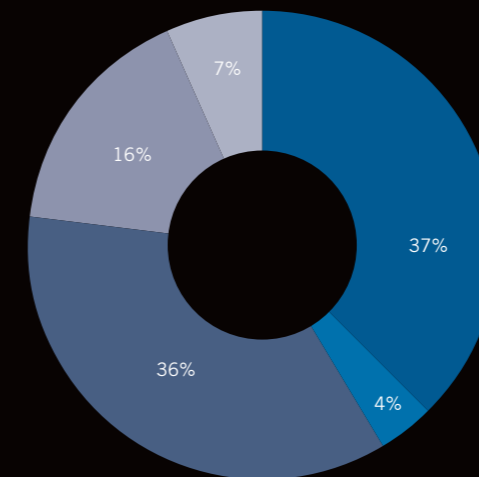


APPLICATIONS OF COLD-FINISHED SPECIAL STEELS

Over 88% of ORI Martin special steels are used in the production of components for the automotive industry, including many safety critical parts. The most common applications are cold-heading steels for screws, bolts and not standard pieces, suspension components (like springs, stabilizer bars, torsion bars and shock absorber rods), steering rack bars and drilled bars for powertrain applications (mainly bound for LCV, Medium/Heavy Duty vehicles and agricultural machines).



88% Automotive
 2% Fasteners (wind-energy etc.)
 1% Railway & Others non-automotive
 9% Others (construction, oil&gas etc.)



AUTOMOTIVE

37% Suspension Components
 4% Shock Absorber Rods
 36% Steering Racks Bars
 16% LCV & Trucks (PWT+Suspens.)
 7% PC Braking Systems



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