



**TRAFILATI**  
MARTIN





## COLD FINISHING STEELS



### DRAWING COIL TO BAR

Drawn bars are cold finished products obtained by the cold deformation of the wire rod through a die that reduces the diameter. This process achieves the calibration of the wire into the diameter required. We can obtain bars in a wide range of diameters, with tight tolerances and increased mechanical characteristics depending on the reduction carried out.



### PEELING COIL TO BAR - BAR TO BAR

Peeled bars are obtained by a cold finishing process that removes the surface of the bar with a special tool. After peeling we carry out the reeling process in order to improve straightness and surface roughness.



Trafilati Martin S.p.A. has a production unit based in Cologne (25 kms from Brescia). It operates in the field of cold finished steels incorporating the following production range: drawn, peeled and also with added facilities to supply material cut and machined to customer's requirements.



#### SAWING LINES

The metal disc saws guarantee a perfect execution of one or more 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 custom's special drawings that are guaranteed by CNC machines for diameters up to 53 mm.

#### PICKLING PHOSPHATING SOAPING SHOT BLASTING

Pickling and phosphating treatments are operations made for wire rods surface to be apt to cold forming. Chemical pickling is made in order to remove completely the scale while phosphating and soaping allow an accumulation on the coil's surface of a continuous and uniform layer composed by zinc phosphate crystals and zinc stearate.

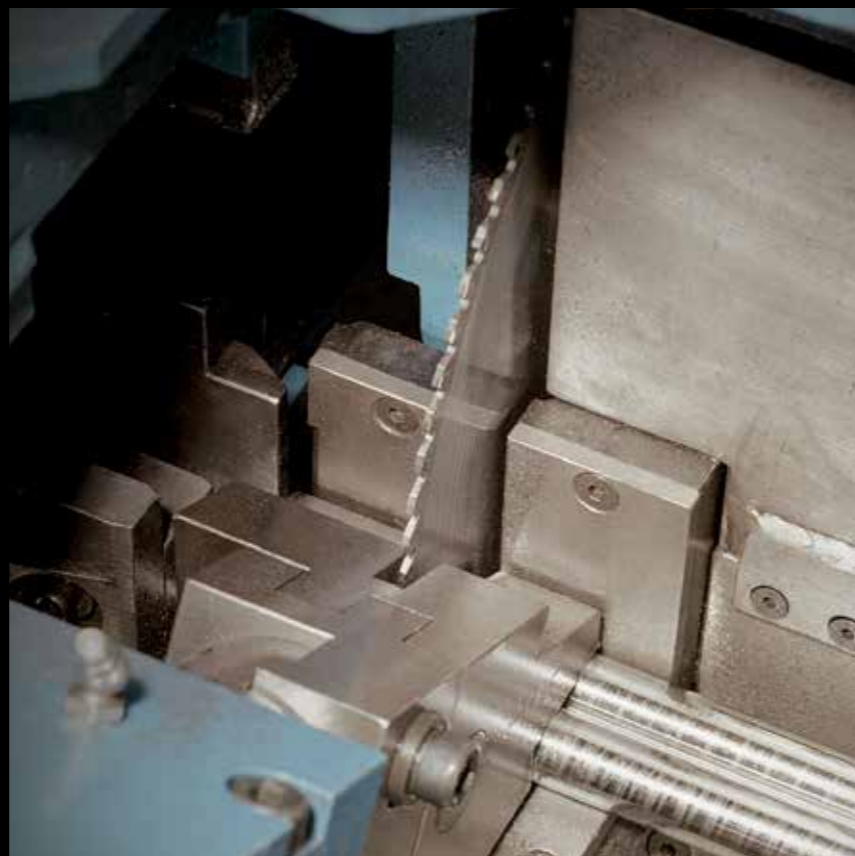
They form an efficient lubricant stratus for following operations of drawing, cold forming, extrusion and cold heading. We are also equipped to make shot blasting operations for wire rod.

#### HEAT TREATMENTS

In our standard offer we also include heat treatments on both drawn and peeled bars that includes 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.



Machining



Treatments



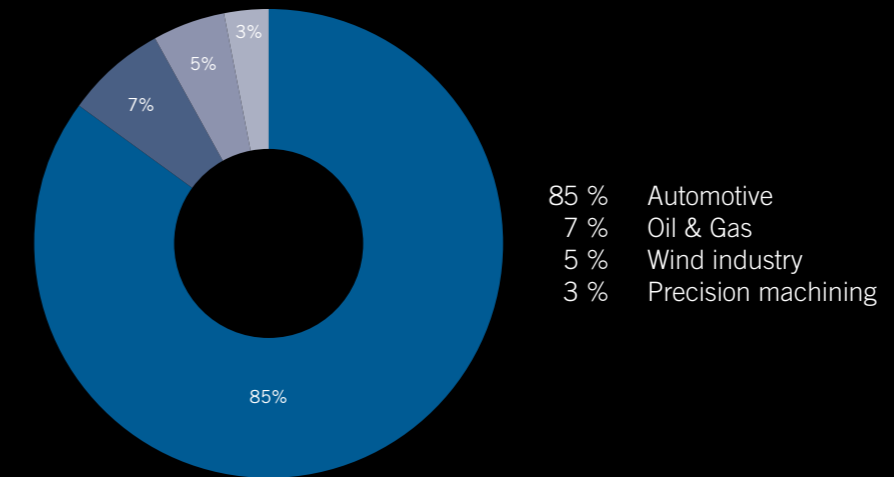
NDT controls



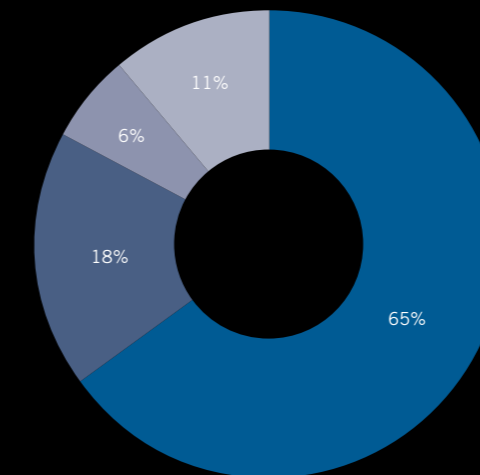


## APPLICATIONS OF COLD FINISHED STEELS

Over 85% of ORI Martin special steels are used in the production of components of the automotive industry, including many safety critical parts. The most common applications are cold heading steels for screws, bolts and not standard pieces, suspension springs, case hardened and quenched and tempered pieces.



85 % Automotive  
7 % Oil & Gas  
5 % Wind industry  
3 % Precision machining



### AUTOMOTIVE

65 % Suspension coil springs, stabilizer and torsion bars  
18 % Steering racks  
6 % Shock absorber rods  
11 % Various components



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