

RLI

MILLING ROLLS

THE MATERIALS

Interior coating

White cast iron: excellent wear and abrasion resistance.



External coating

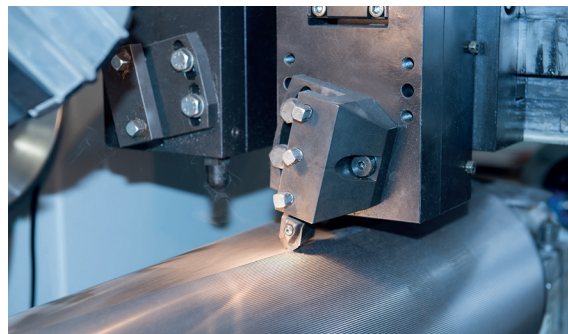
Grey cast iron: excellent mechanical characteristics able to resist the flexional and torsional stresses.



PROCESSING ON ROLLS

Dowelling: the coupling between the roll and the shaft is carried out with nitrogen cryogenic bath technology. The system ensures a perfect coupling and a better distribution of residual stresses than the mechanical press shrinking.

Grinding and fluting are carried out by the numerical control fluting machine. Grinding operation, performed on the rolls and shafts, guarantees the perfect concentricity as well as optimum performance.



Dynamic Balancing according to ISO 1940.

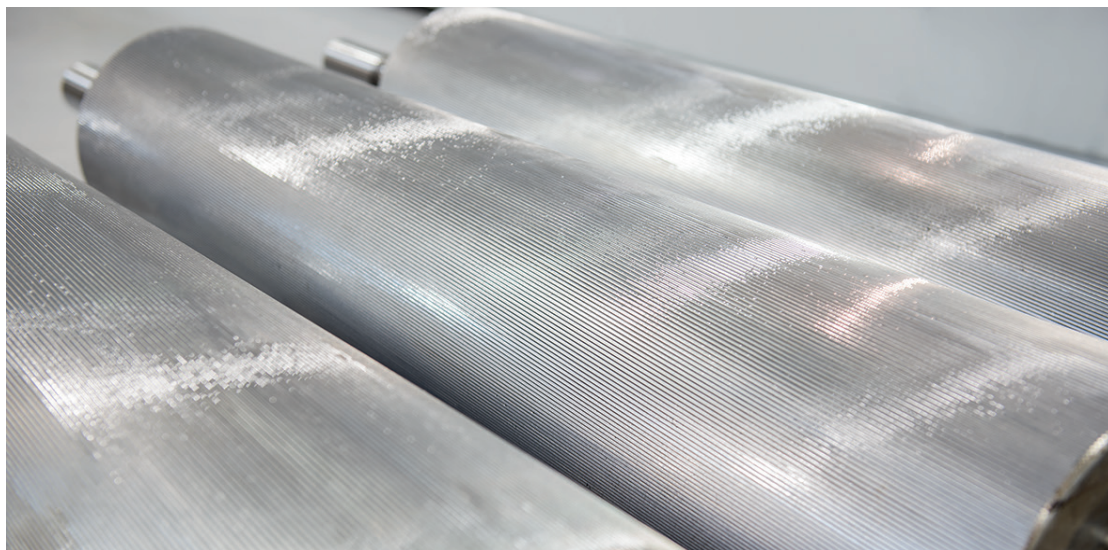
The balancing supports working with high-speed rotation without causing vibrations.

ROLLS TYPES

Break Rolls

Fluted rolls are made of bimetallic cast iron with hardness between 510 and 580 HB.

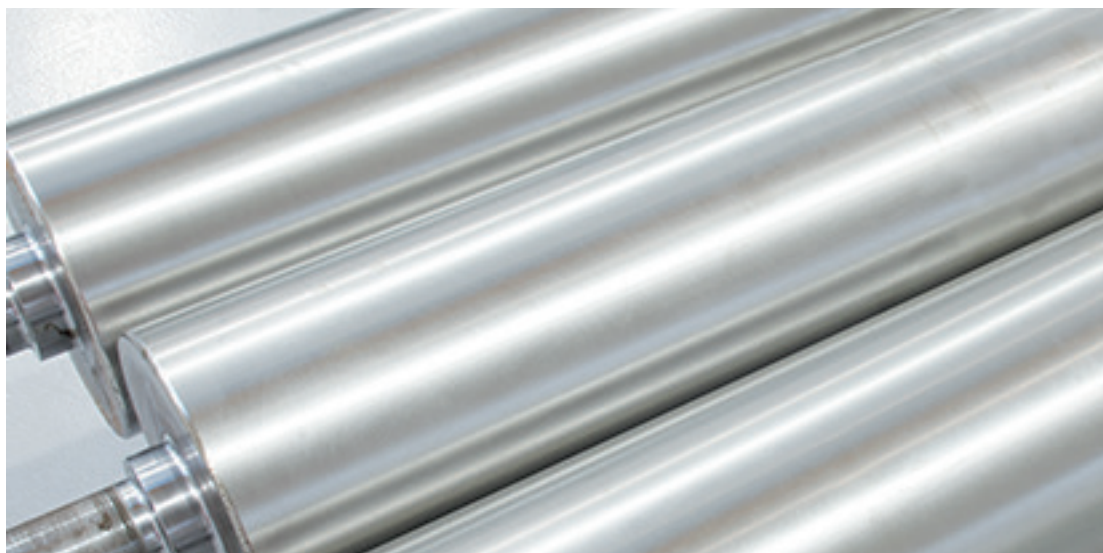
They are subjected to specific surface treatments in order to guarantee great technological performance and excellent wear resistance.

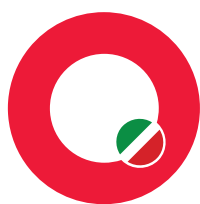


Reduction rolls

Reduction rolls are made of bimetallic cast iron with hardness between 430 and 480 HB.

They are subjected to appropriate surface treatments, such as sandblasting, in order to improve the contact with the product and the mechanical characteristics.





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