



ERT-EBROS® ENDLESS ROLLING TECHNOLOGY

HIGHER PRODUCTION AND FLEXIBILITY

ERT-EBROS answers the market calls by making endless rolling possible. Yield is improved and production made more flexible. Inter-billet time is eliminated, and crops and trims minimized. Coils or bundles with on-demand large weight can be processed even with small billets. ERT-EBROS operates with standard continuously cast billets, as torch-cut or sheared, with no need for specific end preparation.

FIELD OF APPLICATION

Rolling mills for long products

MAIN BENEFITS

- yield improvement
- minimized crops and trims
- customizable weight of rod coil
- larger coils with the same billet size
- lower incidence of cobbles
- reduced part wear
- more regular operation of motor stands
- minimum metal loss



MAIN FEATURES

ERT-EBROS welds the ends of two billets through an intense flash-heating action. The billet relative position and the welding parameters are continuously monitored and adjusted with the Dynamic Flash Control. After melding the billet ends are pressed against each other and the welding joint is formed. A self-cleaning device deburrs and completely smooths the joint in preparation for rolling. The rolled bars have a consistent uniformity of metallurgy, with uniform grain size, phase distribution and mechanical properties.

TECHNICAL DATA

Reduction of specific energy consumption	3-5%
Increase of production	up to 10%
Saving of production cost	up to 3.5 €/ton
Saving of inter-billet time	up to 2 h/day

PROCESS STABILITY AND REDUCED MAINTENANCE

Stability of operation is guaranteed by the voltage stability and fast reaction in controlling the flashing current. The on-board high-frequency transformers are compact and designed to perform up to 50 million joints without maintenance. The Active Spatter Protection prevents spatters from damaging the mechanical and electrical equipment. This extends the lifetime of components and makes maintenance operation easier.

REFERENCES

- FN Steel, Finland
- Cevital, Algeria
- Yongfeng, China


Primetals Technologies Italy Srl.
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