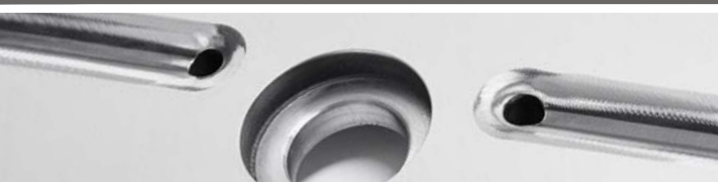


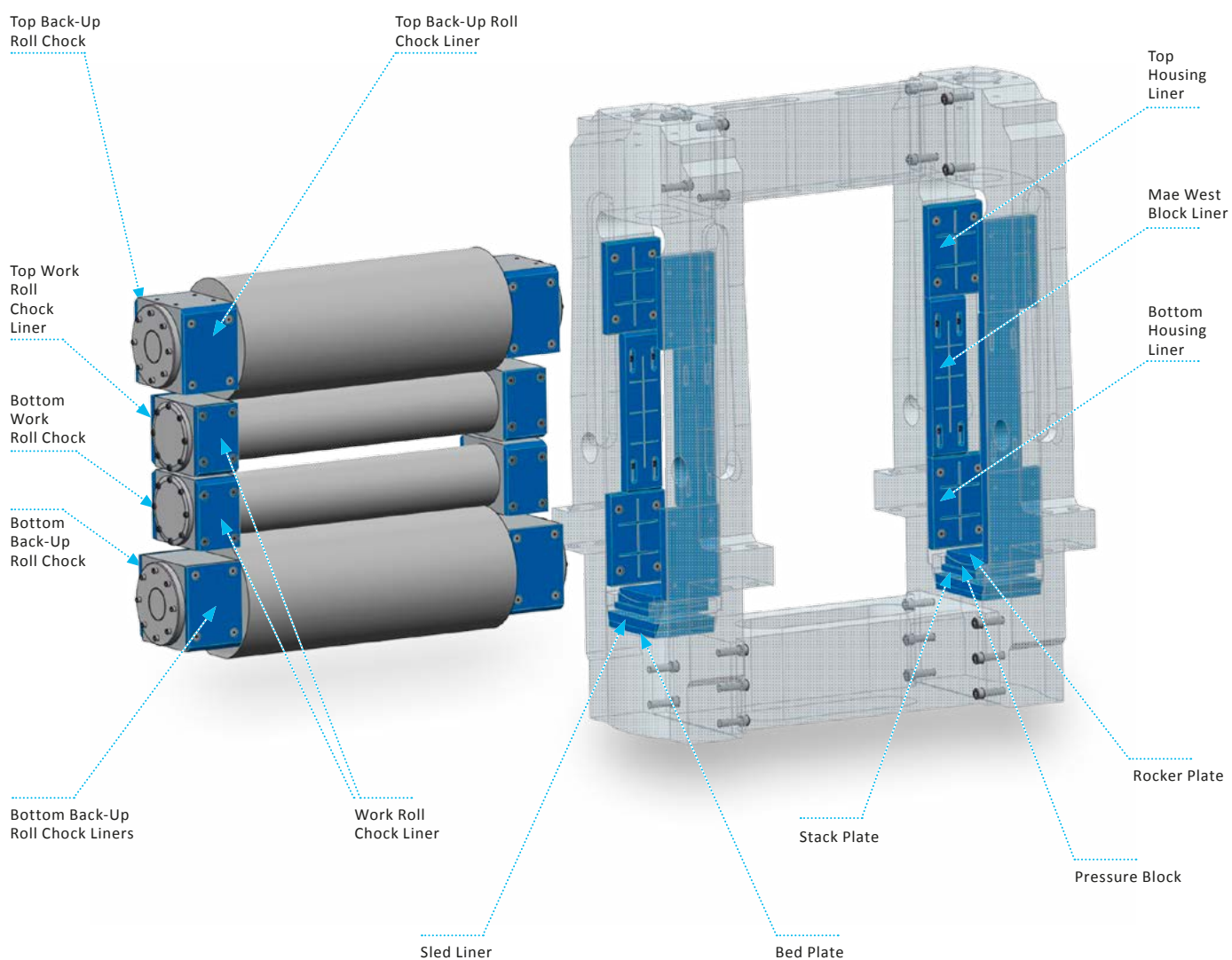
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RS liners and wear parts

LINERS and wear parts for rolling mills are an essential part of the integral mill design for maintaining optimal rolling conditions. SIJ RAVNE Knives uses new unique RS LINER solutions to cope with the demands of modern day rolling mills with the focus of providing a new perspective on stability, life-time and continuity of the production process for high quality end products.

Scope of supply – RS LINERS



Ravne Knives offers the complete range of solid and clad liners and wear parts for your hot and cold rolling operations.

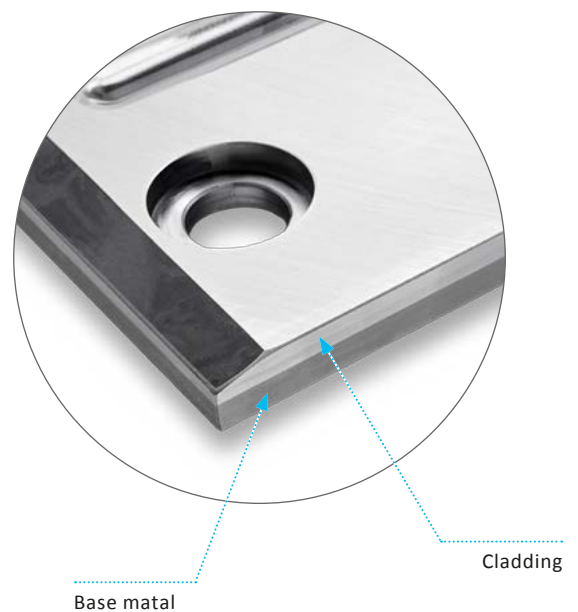
CLAD PLATES IS A ROLL BONDED MATERIAL, CONSISTING OUT OF TWO LAYERS, BASE AND CLAD MATERIAL.

The thicker part of clad plate »Base metal is carbon steel plate, designed to absorb vibrations and shocks. The thinner layer is »Cladding«, which can be stainless steel, Nickel alloy, wear resistant or tool steel, providing wear resistance and allowing closest tolerances. Both plates are metallurgically bonded, therefore clad plate behaves like a single plate. Unique combination of base and clad material, together with appropriate surface hardness and due to high precision surface ground, makes our RS liners and wear plates a perfect solution for all erosion, corrosion and abrasion problems.



RS LINERS MAIN BENEFITS

- **Maximized lifetime** – UP TO 100% - RS LINERS products are produced using latest manufacturing technology and heat treatment procedures for best product properties.
- **Maximized roll accuracy and stability** – Specialized machine park for achieving best possible dimensional and geometrical tolerances, enabling rolling stand stability.
- **Minimized vibrations** – UP TO 50% - Super fine surface finish and perfect hardness distribution throughout the liner structure minimizes vibrations. Softer part protects the stand's components against damage due to forces, generated by rolling process.
- **Preventing cracking** – RS LINERS, especially the clad plates line offers a new perspective on product safety, avoiding Liner brakes using the clad plates rolling technology.
- **Reducing TCO** – RS LINERS combine benefits (including the above stated) into value for the user, whereby reducing the overall TCO of the operation.



LOWER TOTAL COSTS OF OWNERSHIP (TCO)

Comparasion of TCO: conventional steels vs. clad plates



RAVNE Knives is a member of SIJ – Slovenian Steel Group.

RAVNE Knives is the first and the only vertically integrated producer of Liner plates in the world with more than 400 years of metallurgical experience in making our own high alloyed steels for our products.

Our broad portfolio of production and material capacities allow us to satisfy the needs and expectations of the steel industry.

Ravne Knives offers the complete range of critical components and service for rolling mills.

- Liners and wear parts
- Forged rolls
- Industrial knives, knife holders
- Custom spare parts for rolling mills (chocks, mandrels, segments, ...)

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