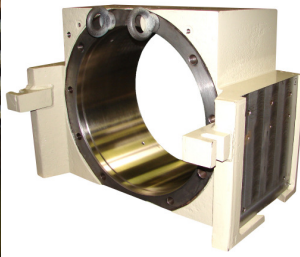
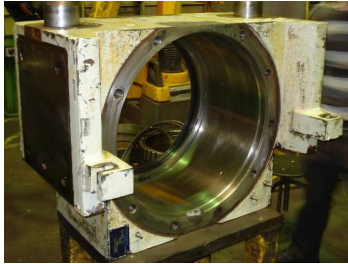
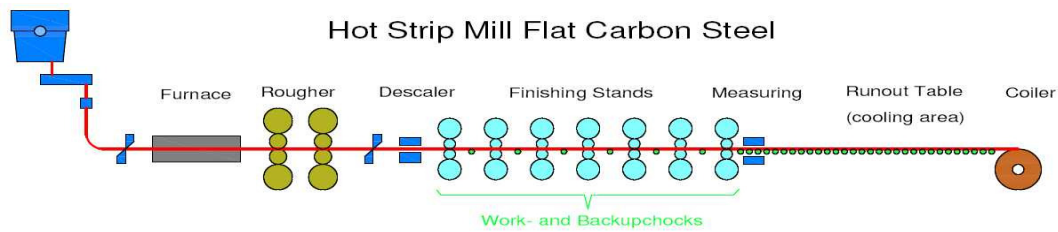


Habets Chock Repair for Hot-/Cold mills



Originally established in 1944, Habets has established an enviable reputation as a Productivity Partner for large and heavy Industrial Components (new and repair) and Surface Technology (thermal spraying and others).

The fact that we offer machining capabilities and thermal spraying under one roof makes us a unique partner.

Habets is located in Nuth, in the South of The Netherlands (near to Maastricht).

Habets is active on various global markets, our main markets are:

- Steel Industry.
- On and offshore.
- Renewable Energy.

For further Information we refer to the attached brochures and our website www.habets.nl.

Habets delivers various products/services for its customers within the Steel Industry such as repair of work- and back up roll shaft ends, production of runout table- and looper rolls, pellet rolls, conveyor belt pulleys and idlers. Yet a special activity is the **Habets refurbishment of chocks** for working- and backup rolls within Hot- and Cold Strip Mills.

One of the applied repair methods, mainly used for the repair of bores and side faces, is thermal spraying. This process is very mild to the base material because the temperature of the chocks surface will not be higher than approximately 150 degrees Celsius.

The coatings as applied do have a double function, the first one is for restoring to drawing/specifications and the second one is for a better corrosion resistance. Hot- and Cold Strip Mills throughout Europe have recognized the benefits of this mild repair method, therefore they choose Habets to apply them for their critical components.

Beside the Thermal Spraying we, of course, do use the common methods like wear resist welding for other parts of the chock but these are generally applied for smaller areas.

Advantages are:

- ✓ Proven repair method.
- ✓ No need for heat treatment and correcting machining for other parts.
- ✓ A better surface quality with self lubrication properties.
- ✓ An excellent corrosion resistance for longer lifetime thus cost saving.
- ✓ Available again within a short period of time.
- ✓ An excellent price / performance level.

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Base material of the chock

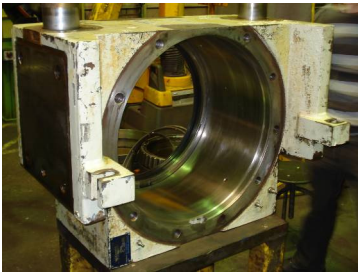
Various grades of steel (any).

Applied process

Combustion spray.

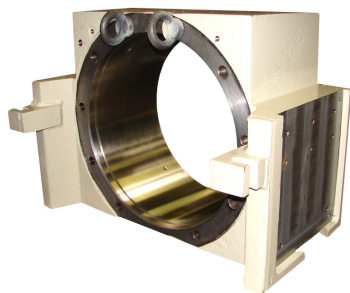
Type of coating

Chromium steel and bronze.



During the production of steel, your production components are subject to enormous loads and high temperatures. These conditions can significantly impact your production capacity and production yield unless your components are in the best possible condition.

This is also true for your chocks. These must be within drawing specifications and must have a good resistance against wear and corrosion of the important surfaces.



To meet these requirements, we developed a coating with a character that carries the optimum of both, rigidity and corrosion resistance, within it. Characteristically for the side faces and the bores is the yellowish appearance.

It would be an honour to let us explain this refurbishment method in detail to you. Your benefits can be:

- ✓ significant savings on purchasing costs.
- ✓ less maintenance costs.
- ✓ increase of production output.
- ✓ expanding your product window.
- ✓ reducing the number of cobbles, saving amounts of money.
- ✓ available again on short notice.



Hot- and Cold Rolling Mills throughout Europe, recognizing that their chocks must be in an optimal condition for as long as possible, have already chosen for the **Habets chock refurbishment method** many years ago.