CASTOCASTING
Impact Wear and Heat Resistant Steel

Experts in repair and maintenance at your SERVICE
Pioneering Industrial Sustainability
Performance Mindset With CASTOLIN EUTECTIC!

Critical industrial equipment is subject to extreme wear, with planned and unplanned shutdowns increasing your maintenance and operational costs. Areas that are difficult to access, such as those at a high elevation, pose an even greater risk to employee safety and your bottom line. In this type of environment, superior wear-resistant materials are vital to covering wear-prone areas and serve as a way for companies to improve performance and reduce costs.

As a strong global player in wear management and performance, CASTOLIN EUTECTIC is committed to delivering “the optimum solution” to improve your operational and maintenance KPIs, such as:

- Mean time between failures (MTBF)
- Maintenance man-hours (MMH)
- Mean downtime (MDT)
- Cost per ton mined (CPTM)

Your bottom-line matters to us!
Our wear experts are dedicated to helping you realize the lowest cost-per-ton possible using our wear management solutions. From mobile and fixed equipment to complete backfill piping systems, our global teams offer field and benchmark performance testing and mine-specific baseline analysis to determine your total cost of ownership. Schedule a service call with one of our industry specialists today!

For over 100 years, Castolin Eutectic has been at the forefront of supplying the market with value-added surface protection products and solutions. Castolin Eutectic strives to improve the existing life cycle of plant assets to provide the optimum operational performance against the effects of high-wear abrasion, high-impact, gouging, and other wear-related maintenance failures.
Global Presence & Local Outreach

Our UAE Service Centers provide a local presence, though our expertise spans the globe. With international teams that pool resources to solve difficult industrial wear problems in a cost-effective way.

Pioneering Industrial Sustainability

Castolin Eutectic wear management specialists have technically advanced solutions that redefine equipment life cycles across service centers, regardless of the wear mechanism.
Castolin eutectic specializes in providing a comprehensive range of services and products specifically tailored to the mining sector, offering advanced steels and alloys that excel in breaking up and pulverizing rocks and minerals within mines.

We take pride in offering a wide selection of our own meticulously chosen steels, engineered to be highly resistant to wear, impact, and abrasion. Our featured steels include:

**High chromium**: Renowned for their exceptional hardness and durability.

**Chrome-molybdenum steels**: Available in perlitic and martensitic varieties, delivering superior performance.

**Manganese steels**: Our products find crucial applications in the mining processes of breaking, pulverizing, and refining materials:

**Milling process**: Liners and grate plates specifically designed for SAG mills, AG mills, ball mills, rod mills, inlet and outlet bend chute liner and more.

**Crushing process**: Components crafted for crushers, such as hammers, blow bars, and wear plates, optimizing the crushing efficiency.

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*Pioneering Industrial Sustainability*
Mill liners:
Metallic liners for all kind of SAG mills, AG, ball mils and rod milis present in the grinding processes of minerals. Liners profile design upon clients drawing, and collaboration in design towards improvement of the liner performance.

Mill inlet/outlet plates: Metallic inlet/outlet grate plates for all kind of SAG mills, AG, ball mills and rod mills present in the grinding processes of minerals. Design upon client’s drawing, and collaboration in design towards improvement of the plate performance.

Parts and components for crushers: Parts resistant to impact and wear, casted or machined finished, for crushers.

Hammers and blowbars: Castolin offers hammers and blowbars on steel alloys with austenite structure meant to absorb strong impacts, assuring good properties of hardness and wear resistance. Application in primary and secondary crushing.

Benefits for the production process:
• Optimization and efficiency of the crushing process
• Longer duration of hammers and blowbars
• Reduction of the production costs

Castolin offers hammers and blowbars in manganese, medium-alloyed and high-chromium steel
Heat resistant casting
Kiln area
Castolin eutectic offers steel alloy components for rotary kilns used in the calcination of raw cement, including inlet segments and nose ring segments. The efficient operation of the kiln relies on well-maintained inlet segments at the kiln mouth and nose ring segments at the outlet. These metal segments secure the refractory brick rings inside the kiln. Castolin provides tailor-made solutions, adjusting material designs to meet customer requirements. The steel specifications feature heat-resistant alloys with chromium (Cr) content of 20-30% and nickel (Ni) content of 3-27%, ensuring durability and performance in demanding kiln environments.

Coolers
Castolin specializes in providing technological steels for cooling cement clinker in planetary coolers and grate coolers.

Planetary coolers: We excel in designing planetary or satellite coolers for efficient clinker cooling. Our expertise includes:
- Precise cooling zone distribution in planetary tubes (from zone 1 to zones 5 and 6).
- Tailor-made steel parts for each zone and clinker type.
Carefully chosen materials ensuring exceptional reliability and safety. Trust castolin for optimal cooling solutions in cement production.

**Grate coolers**: With a rich history of 30 years, Castolin has been at the forefront of manufacturing plates for grate coolers. Leveraging this extensive experience and expertise, the company has introduced numerous innovations in metallurgy, materials, and grate design. These advancements aim to enhance plate longevity and performance significantly. Count on Castolin’s continuous commitment to improving grate cooler efficiency and durability, backed by their deep understanding of the industry’s evolving needs.
Pre-Heaters

We are specializes in providing high-quality steel components for pipes and cyclones used in preheaters of raw cement plants. Our range includes dipping tubes and tipping valves, essential for optimizing the preheating process.

Dip tube: In the cyclones, the raw cement gradually descends towards the rotary kiln's inlet sleeve, absorbing heat from the hot outlet gases of the calciner kiln. Circular rings composed of segments (dip tubes) protect the cyclone tubes, ensuring efficient operation under high temperatures, oxidation, and thermal shock.

CASTOLIN dip tubes are engineered from heat-resistant steel alloys with chromium (Cr) content of 20.0 - 30.0% and nickel (Ni) content of 3.0 – 27%, providing exceptional performance and durability in demanding cyclone conditions.
Flap valves

we are excels in manufacturing and designing tipping valves, as well as simple and double flap valves, specifically for preheaters utilizing cyclone technology.

Crafted from high-performance steel alloys, these valves are available in various sizes to suit different applications. Their user-friendly design allows for easy installation and replacement on-site, ensuring a secure and dependable response in operation.

The steel specifications for these valves include heat-resistant alloys with chromium (Cr) content ranging from 18.0% to 27.0% and nickel (Ni) content ranging from 3.0% to 27.0%. This ensures exceptional durability and performance, making them ideal for the demanding conditions of cyclone-based preheaters.
Mission & Vision

WHO WE ARE  WHY WE DO, WHAT WE DO

Millions of users in the heavy-duty and wear industries trust our brand. For over 100 years, we have developed innovative products and solutions for our customers and risen to the challenge of reducing maintenance costs and increasing industrial productivity through welding, brazing and coating technologies.
**Short & sweet**

**Global wear management network with local support**

Our service centers offer local technical support, while our expertise extends globally.

Our global key industry network combines the resources to solve difficult wear challenges, and our local teams implement the most cost effective and sustainable solutions.

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1538 Employees
10 Supply centers
20 Service centers
31 Market centers

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**SUSTAINABILITY / CO₂ FOOTPRINT**

By giving worn out and damaged industrial components a second life, we are contributing to the circular economy and reducing the CO₂ footprint.

**OUR COMPANY CULTURE**

We will continuously act ethically and in a manner that fulfills the expectations of our environment, customers, employees and shareholders.

- Innovations
- Trust and safety
- Friendly work environment

**ENERGY SAVING / COST SAVING**

Our surface protection technologies prolong component lifespan, leading to major cost savings (no need to buy or store new parts). Critical industrial components functioning optimally consume less energy.

**PRODUCT INNOVATION**

We launch products & services with limited impact on the environment and safer for the operators: brazing flame without carbon and UVs, no-CMR brazing fluxes, chrome-free welding wires etc.
“We help mechanical parts to perform beyond their limits”