

ECOMAX® A UNIQUE GRINDING MEDIA BRAND

MAGOTTEAUX GROUP THE GLOBAL SOLUTION PROVIDER TO HIGH ABRASION EXTRACTING INDUSTRIES

ECOMAX®

FORGED GRINDING MEDIA



Magotteaux has recently extended its offering to **Ecomax® Forged**. **Ecomax®** grinding media is now available in both forged and cast. Magotteaux has now two different processes to deliver the same high caliber quality and performance. Your individual application and objectives will determine the best solution.

As solution provider to high abrasion extracting industries, we start with a cross section insight into your value chain and combine all relevant levers from expert advice, service, resources, products & equipment to help you save money and optimize cash generation.

FORGED BALLS FOR YOUR SPECIFIC APPLICATIONS

Ecomax® Forged balls are manufactured from high quality steel bars and then forged into balls.

They are submitted to tailored heat treatments in order to obtain the required structure and properties. **Ecomax® Forged** is suitable for ball milling and SAG mill applications. For SAG mills working in an environment with very severe impact conditions, Magotteaux has developed a specific **Ecomax® Forged** solution. We successfully combined breakage resistance with a performing alloy to deliver the right product for these harsh working conditions.

OPTIMUM PERFORMANCE FOR YOUR MILLING APPLICATION

In certain applications the optimal solution might be the use of **Ecomax®** cast balls manufactured by Magotteaux. Its range covers diameters from 2 inches (50,8 mm) to 3 1/4 inches (88,9 mm).

Ever since Magotteaux was established in 1918, we've been putting our customers first, continuously innovating to contribute to your success.

We're committed to supplying process optimization solutions that create value for high abrasion extracting industries.

Our key to your success? Understanding your needs and production processes, so that we can tailor the right solution by leveraging our flexible innovation and manufacturing capabilities.

We serve diverse industries like mines, cement plants and quarries all over the world: from Alaska to Southern Africa; from China to Chile.

We help our customers optimize their operations, recover more minerals at a saleable grade, and deliver their final product or service at the best total cost of ownership, with minimal environmental impact.

In addition to great products & solutions, we offer advice, service, resources and equipment.

KEY FACTS

- Established in 1918
- 1st ball production in 1950
- 15 specialized production units
- 24 sales & process centers
- 3,000+ employees
- 200+ technical service and sales experts
- Global manufacturing footprint for all types of grinding media:
 - low-chrome forged and cast: **Ecomax®**
 - high-chrome cast: **Duromax®, Maxicrom®, Hardalloy®** and **Duomax®**
 - ceramic media: **Keramax®**
- Design and manufacturing of castings and heat-resistant castings

Process optimization products and services for high abrasion extracting industries



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The information and data in this data sheet are accurate to the best of our knowledge. They are intended for general information only. Applications as suggested are described only to help readers make their own assessment. They are neither guarantees nor to be construed as express or implied warranties of suitability for these or other applications.

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GRINDING MEDIA A COMPLETE RANGE OF PRODUCTS TO DELIVER THE BEST SOLUTION

ECOMAX® SECURITY OF SUPPLY & ON TIME DELIVERY

ECOMAX® A GUARANTEED SAME HIGH QUALITY FROM ALL OUR MANUFACTURING UNITS - WORLDWIDE



Magotteaux philosophy is to deliver the right product for your specific application, thereby meeting your processing requirements.

FROM HIGH-CHROME MEDIA TO CAST & FORGED LOW-CHROME MEDIA

Since the 1950's Magotteaux has been supplying high-chrome (Hi-Cr) media: Duromax®, Maxicrom®, Hardalloy® and Duomax®.

We were very successful in most ball milling applications. However, in certain areas the Hi-Cr media were not cost-effective and didn't meet our customer's expectations.

Therefore, to answer those specific needs, we developed a new brand of grinding media: Ecomax® CAST a low-chromium (Lo-Cr) cast steel ball.

Finally, we have completed the Ecomax® range of grinding media with Ecomax® FORGED.

Today with Ecomax® we offer a full collection of grinding media suitably designed with your requirements in mind. Their diameters range from 1 inch (25,4 mm) to 6 inches (152,4 mm).

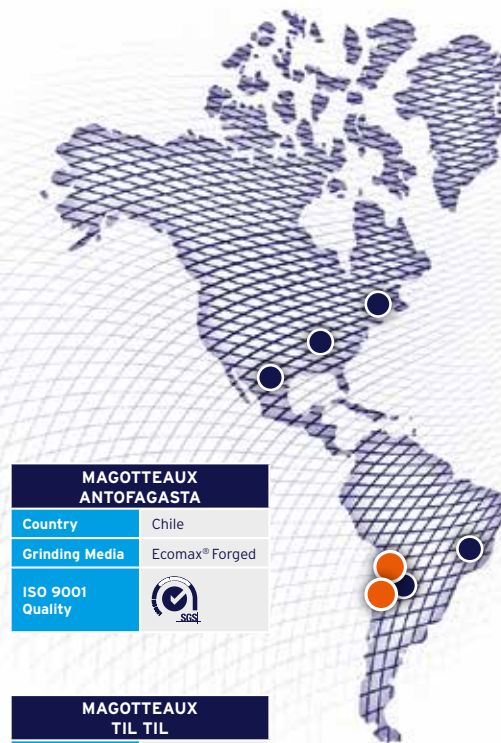
FULL RANGE OF GRINDING MEDIA

Complementary to Ecomax®, Duromax®, Maxicrom®, Hardalloy® and Duomax® Magotteaux supplies Keramax®, a grinding media suitable for fine and ultra-fine grinding applications.

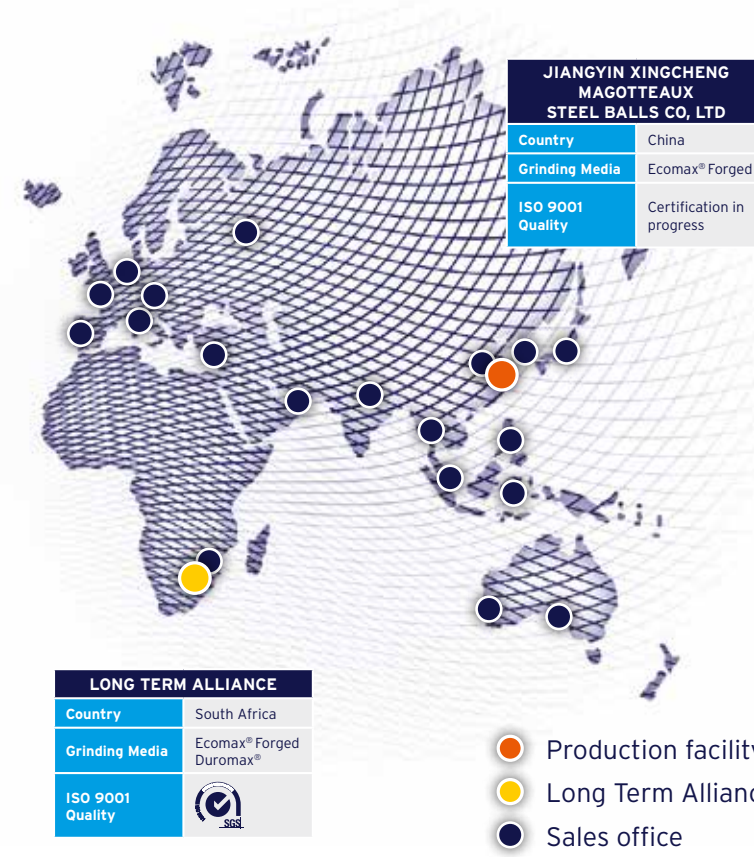
THIS MAKES MAGOTTEAUX THE SOLE SUPPLIER WORLDWIDE ABLE TO:

- Advise & deliver the best suited grinding media type
- From its own and fully controlled supply chain

With the complete range of grinding media, Magotteaux covers the full scope of your applications and requirements... to maximize your returns.



MAGOTTEAUX TIL TIL	
Country	Chile
Grinding Media	Ecomax® Cast
ISO 9001 Quality	



- Production facility
- Long Term Alliance
- Sales office

To meet the security of supply & the on time delivery Magotteaux has developed a global footprint and additionally invested in different acquisitions and Joint Ventures.

AS OF TODAY, MAGOTTEAUX SUPPLIES ECOMAX® FROM 4 SPECIFIC LOCATIONS WITH A GLOBAL CAPACITY IN EXCESS OF 415,000 TONS PER YEAR.

YOUR ADVANTAGES

- **Global supply:** our geographical proximity allows us to deliver your orders on time and at the highest market standards.
- **Technical service & sales:** our team of 200+ experts located close to your operations helps you choose the perfect grinding media for your applications.



MAGOTTEAUX GUARANTEES THE SAME QUALITY LEVEL FROM ALL ITS PLANTS

Our plants use advanced production, inspection and process technology.

ALL OUR PLANTS ARE UNDER THE SAME QUALITY MANAGEMENT SYSTEMS

They manufacture according to ISO 9001 standards. That means that each step of the production process is checked uncompromisingly.

Magotteaux has the control of the supply chain! It includes the capacity to produce its bars & billets up to 1m in diameter via its joint venture with Jiangyin Xingcheng Special Steel Works Co., Ltd affiliated with Citic Pacific Special Steel, one of the largest steel producers in China.

Control of the supply chain and the production processes ensures that the delivery will meet your expectations.

WE DO NOT COMPROMISE NEITHER ON OUR PROMISES NOR ON OUR RESPONSIBILITY.

Respect for people, the environment and surrounding communities are key ingredients in all of our activities. Our culture promotes client satisfaction and loyalty, employee safety, as well as cooperation across teams, cultures and functions, to establish personal relations and trust.

