

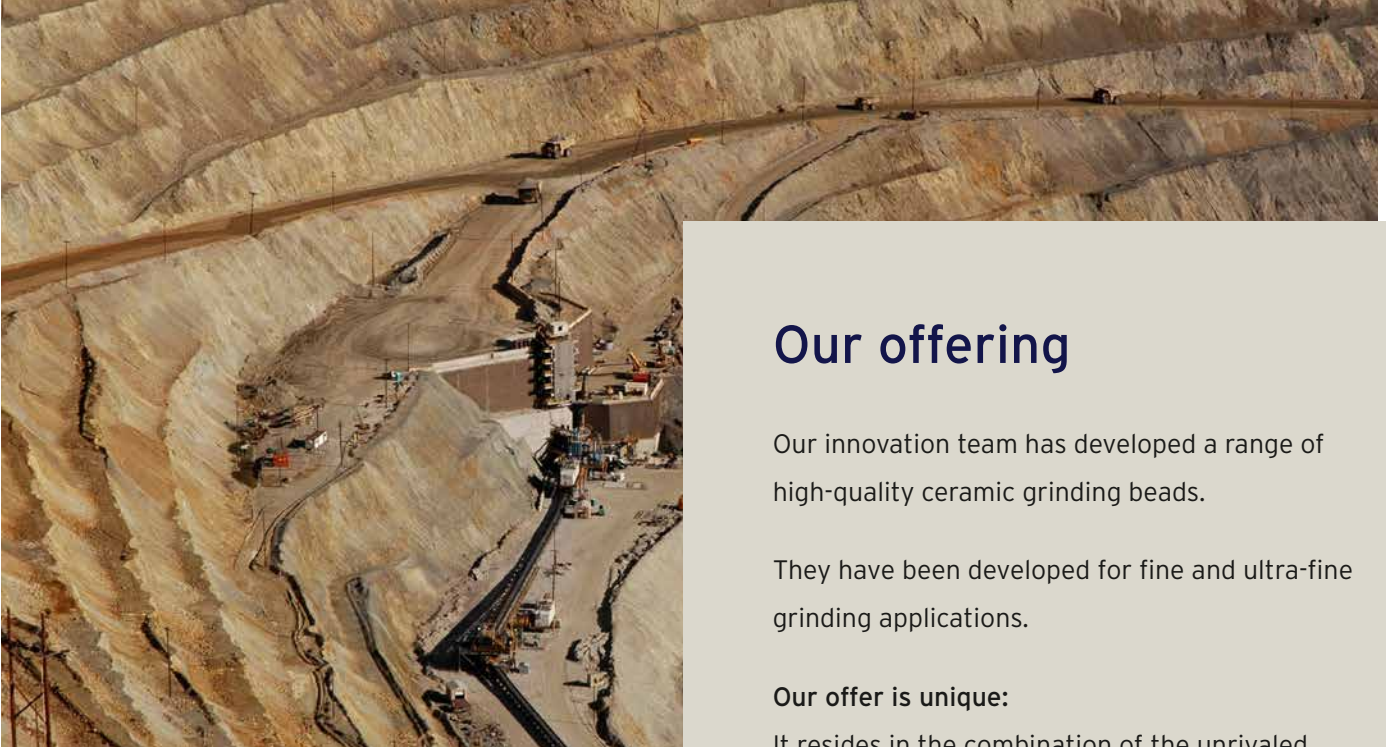
Maximum recovery  
at a minimum cost

# Magotteaux mining

grinding beads  
ceramic



**GRINTEC MAGOTTEAUX**  
CERAMIC TECHNOLOGY



## Your challenges

- Get the optimum liberation size in order to achieve the targeted concentrate grade.
- At the same time, you must minimize the consumption of grinding media and energy.

**Our products and services will help you to reach your goals.**

## Our offering

Our innovation team has developed a range of high-quality ceramic grinding beads.

They have been developed for fine and ultra-fine grinding applications.

### **Our offer is unique:**

It resides in the combination of the unrivaled ceramic expertise of our strategic partner Grintec Advanced Materials Technology Co., Ltd. and the unparalleled technical and market knowledge of Magotteaux as leading supplier for solutions for high abrasion extracting industries.

When both companies joined their forces, they laid the foundations for continuous excellence in all types of ceramic comminution applications.

### **Our solutions are built upon:**

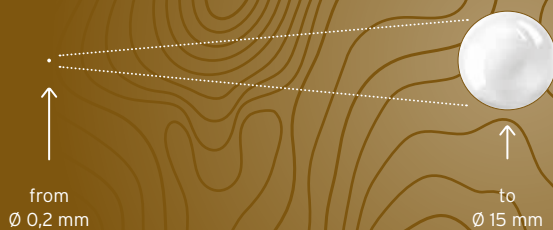
- A continuous product development and improvement combined with a long-standing comminution expertise
- A strong network of experts across the globe, always close to your operations
- A safety stock to ensure continuity of supply
- An expertise in testing and circuits optimization via the use of mobile pilot plants (optional service)





# Magotteaux mining grinding beads ceramic

are available in various  
densities: 2,7 to 6,1 kg/dm<sup>3</sup>  
and sizes: 0,2 to 15 mm and up

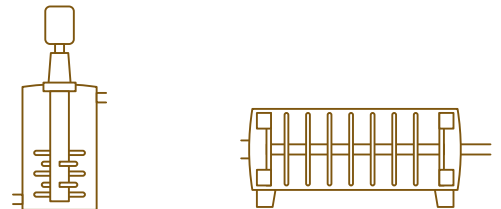


## Multiple grinding applications

Thanks to its exceptional resistance to wear and  
its inert state,

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mining  
grinding beads  
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is the ideal product for all types of mining  
grinding applications.

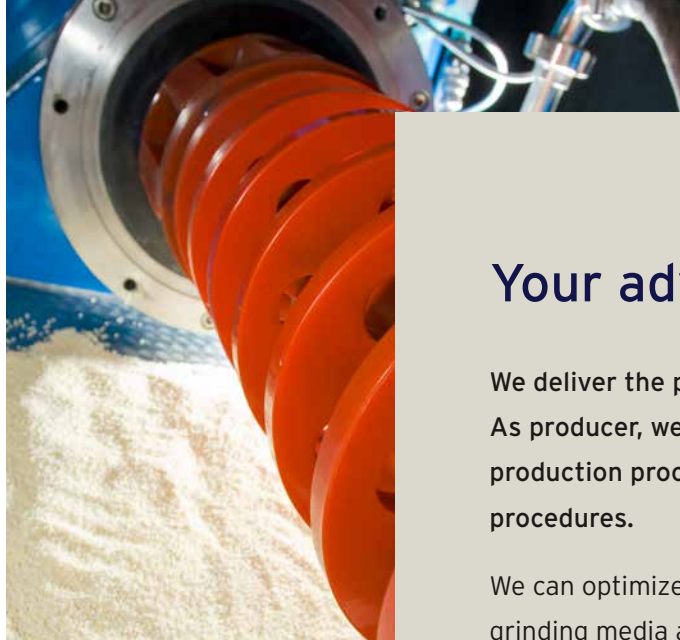


### For the grinding of

- all types of ores

78 <b>Pt</b> Platinum 195,084	79 <b>Au</b> Gold 196,966569	29 <b>Cu</b> Copper 63,546
82 <b>Pb</b> Lead 207,2	30 <b>Zn</b> Zinc 65,38	...

- industrial minerals
- ceramics
- calcium carbonate
- silica
- chemical products
- abrasives
- and more



## Your advantages

We deliver the promised and agreed quality.  
As producer, we master and control the production processes and quality control procedures.

We can optimize the properties of the grinding media according to your application, by adapting the manufacturing process parameters.

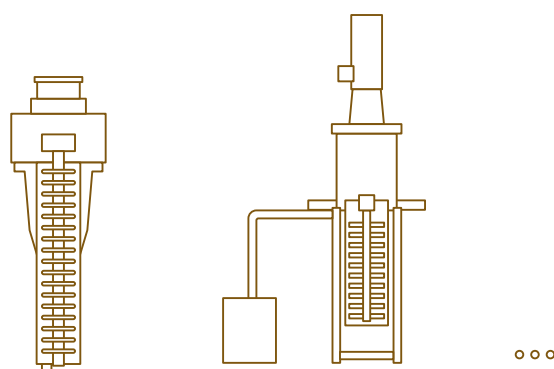
**Magotteaux**  
mining  
grinding beads

ceramic

offer the most attractive price/performance ratios in the market including:

- the lowest wear rate (measured in g/kWh)
- best-suited density of the grinding media for the application
- minimization of the contamination thanks to very low wear rate
- stable process over time thanks to high quality product

All these elements ensure that your targets in terms of production efficiency and excellence are met along with an optimization of your profitability.

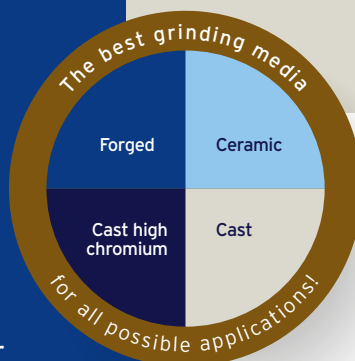


With this full range of ceramic grinding media, we offer solutions for all stirred and high intensity mills.

## Full range of grinding media

In addition to the ceramic grinding beads, we also supply cast high-chromium, low-chromium and steel forged grinding media.

We are the leading supplier worldwide able to advise and deliver the best suited grinding media type.



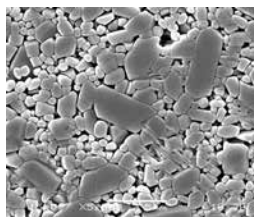
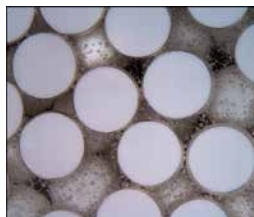
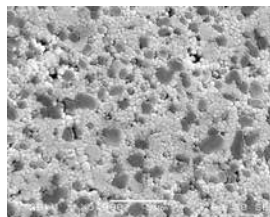
# The guarantee of a flawless product

We guarantee the highest quality with repeatable and constant product characteristics. This is possible thanks to:

- manufacturing according to state-of-the-art processes
- modern plant meeting the strictest international standards (ISO 9001, 14001, 45001)
- strictest quality checks of raw materials and final products
- continuous control of the production line
- fully equipped laboratories

The entire process benefits from the latest technological developments in this field.

We therefore guarantee a product with the highest wear resistance and lowest breakage rate.



Optical and Scanning Electron Microscope (SEM) inspection



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Grintec Magotteaux Ceramic Technology was born from an alliance between Grintec Advanced Materials Technology Co., Ltd. - a producer of ceramic products for mining, ceramic, paint and coating industries - and Magotteaux, a leader in process optimization solutions for high abrasion extracting industries.

Grintec Magotteaux Ceramic Technology was established in 2016. The greenfield plant was designed and built with the newest technology. It provides a large flexible production capacity. Located in Zibo, the heart of the ceramic valley in China, the company produces and offers one of the broadest ranges of ceramic grinding media in the market in terms of densities and diameters. It is combined with the largest expertise in the industry.

## Tips to consider before you decide



Carefully check the composition and density. Ceramics are not all the same.



Think Total Cost of Ownership (TCO) not only price.



**Contact our account managers and experts to analyze your process and define the best possible solution.**







## Global coverage with local production

**+ 100** years of innovation experience

**22** production units across **12** countries

**+150** countries covered through  
our sales network

**+1** million tons of products capacity

**+3000** employees around the world

Part of **Sigdo Koppers Group**,  
listed in Santiago (Chile)



Process optimization services  
and products for abrasive  
and impact applications.

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## Magotteaux, a global leader with more than 100 years of expertise standing by your side.

At Magotteaux, we know it's an increasingly challenging world and any difference we can make to reduce the overall running cost of your operations will have a positive impact on your bottom line. We are committed to make your business as successful as possible while contributing to lower your environmental footprint.

Magotteaux is much more than just a supplier! As a true innovator, we invest continuously in innovation and develop strong and close relationships to understand your challenges and define the best possible solution prior to engineering and delivering the promised quality. We use innovative and modern monitoring tools to prove our promise and optimize your operations.

We are born recyclers, as more than 80% of our raw materials come from recycled goods. We invest in energy efficiency and renewable energy along with an active strategy to reduce, reuse and recycle. Circular economy is important for us. With multiple production units around the world, we are uniquely placed to offer an attractive scrap buy-back program.

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.