

Lower energy. Higher performance. Lower CO₂ emissions.

Optimized classification
for more efficient and
sustainable grinding.

From laboratory to industry: bridging research and real-world solution

In the cement industry, operators face numerous challenges, including reducing energy consumption and CO₂ emissions while maintaining productivity, achieving optimal grinding efficiency, managing wear and tear on mill liners, and ensuring consistent ball charge classification. Traditional liners often fall short in providing the durability and precision needed for large diameter mills, leading to increased operational costs, energy consumption, and downtime.

By translating innovative research findings from the laboratory into practical applications, we continue to develop advanced liner technologies that optimize grinding performance, reduce energy consumption, and deliver both operational and environmental value.

Motion 
Magotteaux cement
innovative classifying liners



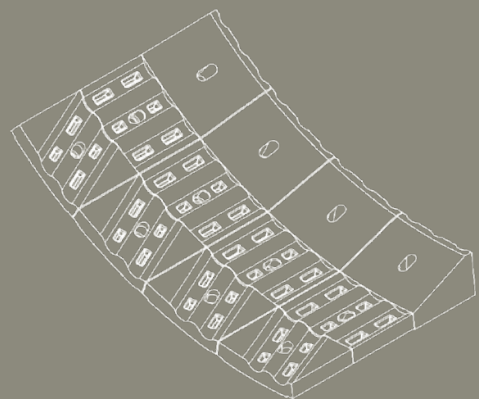
Process optimization services and products
for abrasive and impact applications



Our solution:

Motion  Magotteaux cement
2nd chamber classifying liner
guarantees optimal performance
for large diameter mills.

By combining thin liners for very fine grinding with the durability and efficiency of classic designs, our hybrid solution optimizes classification and grinding efficiency, helping reduce specific energy consumption and CO₂ emissions while enhancing productivity.





Advantages:

Optimized grinding efficiency leading to reduced specific energy consumption, lower CO₂ emissions and lower operational costs.

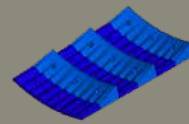
- Excellent ball classification for all mill diameters from 3.0 to 6.2 m.
- High efficient material stirring favoring the progress of fine particles and enhancing the grinding efficiency achieved by pocket design.
- These pockets allow the use of finer ball charge suitable for very fine grinding, ensuring high-precision milling and consistent quality.
- Increased grinding balls volume: boosts absorbed power and throughput [t/h], enhancing overall productivity.
- Ideally suited for grinding finer and lowering clinker factor.

Other main advantages

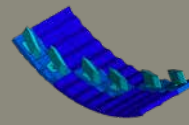
- **Lightweight design: easier to handle and install, reducing downtime.**
- Adapted alloys for thinner design: maintains long lifetime despite the thinner construction.
- Bolted or semi-vaulted version.



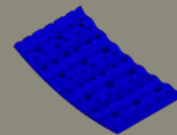
Also offering other solutions and classifying liners designs to suit your requirements in raw, cement, slag, and coal mills:



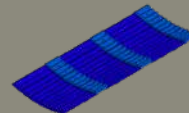
Our fine grinding classifying liner



Alternative classifying liner for mills up to 4.4m diameter



Pocket liner for cases where classification is not needed



Non-classifying corrugated liner



Contact our account managers and experts to find out more about how we can support you to meet and surpass your goals.



Process optimization services and products
for abrasive and impact applications

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.