ONE WORLD
ONE TEAM
ONE STANDARD

WE OFFER
A DIFFERENT VIEW

VERTICAL ROLLER MILL CASTINGS
MAXIMIZING YOUR ROI (RETURN ON INVESTMENT)

ONE WORLD
GLOBAL PRODUCTION NETWORK
# SECURITY OF SUPPLY
# ON-TIME DELIVERY
# PLANT SPECIALIZATION TO SUIT MARKET NEEDS

ONE TEAM
GLOBAL SALES/TECHNICAL NETWORK
# CLOSE CUSTOMER CONTACT
# CONSTANT SUPPORT
# ORDER COMPLIANCE
# AFTER-SALES SERVICE

ONE STANDARD
GLOBAL CERTIFICATION BODY
# COMMON STANDARDS
# COMMON AUDITING SYSTEMS
# CONSISTENCY
# COHESION

1 AUDIT & ACCESS
2 PRECISE ESTIMATE
3 LABORATORY TESTING
4 ON-SITE TESTING
5 VALIDATION & AGREEMENT
6 CONTINUOUS IMPROVEMENT

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PROCESS OPTIMIZATION PRODUCTS AND SERVICES FOR HIGH ABRASION EXTRACTING INDUSTRIES

CEMENT AND UTILITIES
As a leader in process optimization solutions for high abrasion extracting industries, Magotteaux pioneered the use of specialized alloys and composites. Its unique metallurgical technologies combine toughness and durability with high wear resistance, providing solutions not available from other companies in the business.

**REASONS TO TALK TO US**

- Specific grinding cost reduced by as much as 50% (depending upon running operating conditions)
- Extended running life of the grinding elements
- Increased mill operating cycles
- Potential to extend or skip a cycle
- Better consistency of the grinding profile
- Improved efficiency and availability, resulting in reduced costs

**LONGER LIFE, BETTER CONSISTENCY, INCREASED CYCLES.**

Vertical Roller Mills (VRMs) are where the return on investment really comes into play. The mills are a primary cost consideration and once they are running, it is vital that they generate the best returns over time.

**PRODUCT RANGE**

**MONO-METAL** High Chromium (HiCr) alloy solution providing HIGH WEAR RESISTANCE for LONGER LIFE with MECHANICAL DUCTILITY and TOUGHNESS.

**DUCAST** Ductile iron base alloy core with High Chrome inserts. Combines HIGH WEAR RESISTANCE with the ability to RESIST HIGH MECHANICAL STRESSES.

**DUCAST CERAMIC** Ductile iron base alloy with CERAMIC High Chrome inserts. COMBINES the EXTREME HIGH WEAR RESISTANCE of ceramic with the ability to RESIST HIGH MECHANICAL STRESSES. (2.0-3.0x LIFETIME vs. Ductcast design depending on the Application, Mill Design and Mill Operation).

**FULL CERAMIC** High Chrome base alloy with CERAMIC. Provides FULL surface coverage of ceramic in the grinding zone for maximum WEAR RESISTANCE. (2.5-4.0x LIFETIME vs Mono-Metal High Chrome & Ductcast design depending on the Application, Mill Design and Mill Operation AND 15-20% improvement vs. Ductcast Ceramic design.)

**CERAMIC SOLUTIONS**

- Metal Matrix Composite of High Alloy Metal and Ceramic.
- Extreme wear resistance of ceramic with the mechanical properties of cast alloy.
- Specialized casting process.
- Ceramic offered in 2 different grades: Xwin® and neoX®, with variations of each grade to match your specific application or needs.

**RETURN ON INVESTMENT**

Maximum return on investment (ROI) is guaranteed when using Magotteaux products. This is, among others, achieved by optimizing mill operating campaigns for maximum benefit, optimizing grinding efficiency, capacity (throughput), product fineness and power consumption. Resulting in optimized mill performance and processed material output to ensure best possible balance-of-plant performance.

**CERAMIC TECHNOLOGY OFFERED IN TWO GRADES**

**XWIN® CERAMIC** - technology developed by Magotteaux. Xwin® is a metal matrix composite composed of high chromium alloy metal and ceramic. This provides the extreme wear resistance of ceramic with the mechanical properties of cast alloys. It is manufactured using a specialized casting process.

**NEOX® CERAMIC** - also developed by Magotteaux. Similar to Xwin® technology, the neoX® technology is a further advancement in ceramic technology providing improved wear performance for the most severe applications. Compared to Xwin®, improvements of up to 50% or greater can be expected.

**APPLICATION, POSITIONING**

Xwin® and neoX® ceramic-based technology is available for grinding elements in most vertical spindle mill applications, tires/rolls and tables. They combine the extreme hardness of ceramic with the mechanical properties of high chromium metal providing unsurpassed performance. The result is maximum wear resistance and wear life.

Regardless of if your requirements are classical high chromium alloys or if your pulverized-coal vertical mill application is roll & conical ring, tire & table, ring & hollow ball or pendulum & ring, Magotteaux products and solutions offer maximum wear resistance, maximum performance and optimized operating campaigns.

**PROCESS MONITORING & PRODUCT KNOWLEDGE**

Working in partnership with the customer Magotteaux monitors wear performance along with critical process parameters to ensure optimum performance and assurance of lifetime. Such activities allow Magotteaux to validate designs and further push the boundaries of wear performance.

For more information on Magotteaux’s complete line of Vertical Roller Mill Castings and on our overall product lineup and other innovative solutions, contact your regional Magotteaux sales office, or mail us at: cement@magotteaux.com