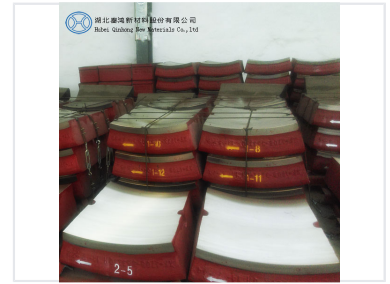
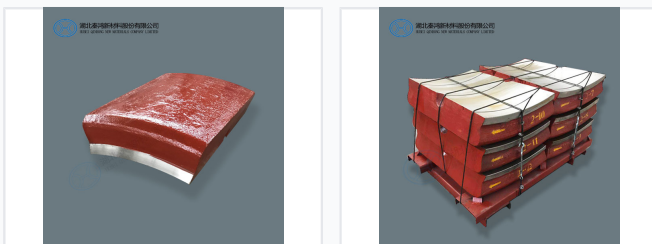


Metal Matrix Ceramic Composite Roller Segment

This metal matrix ceramic composite roller segment is designed for use in mining machinery. The segment features a ceramic composite material embedded in a metal matrix, offering enhanced wear resistance and durability.



ADDITIONAL IMAGES



Product Overview

Advanced Composite Roller Technology

This metal matrix ceramic composite roller segment is engineered for high-performance mining and industrial machinery. By integrating ceramic wear-resisting layers into a high-chromium cast iron matrix, these segments offer superior hardness and durability. The innovative surface pit structure reduces sliding and vibration, significantly enhancing operational efficiency and extending service life compared to traditional materials.

Performance Metrics

Operational Improvements

5 %

Output Increase

2 x

Service Life Multiplier

Key Advantages

- Surface pit structure reduces sliding and vibration
- Ceramic layer extends to the edge of wear parts
- Repairable via surfacing to reduce procurement costs
- Reversible design allows usage on opposite side
- Reduced maintenance frequency and downtime

Technical Specifications

Max Grinding Depth	45 mm
Base Material	High chromium cast iron with ceramic composite layer
Maintenance Features	Repairable, Reversible, Wear-Resistant, Vibration-Damping