

Withstanding Severe Impact: Blastany Showcases as a Global Leading Forged Steel Ball Exporter at EXPOSIBRAM 2026



Jinan, Shandong Aug 13, 2026 ([Issuewire.com](https://www.issuewire.com)) - The international mining community continuously seeks solutions to optimize ore processing efficiency and reduce operational expenses within large-scale grinding circuits. As one of the most influential trade platforms for mining equipment and consumables in Latin America, EXPOSIBRAM 2026 serves as a vital venue for showcasing advancements that directly address these industrial demands. At this prominent event, [Jinan Junda](#)

[Industrial Technology Co., Ltd. \(Blastany\)](#) a specialized manufacturer established in 2005, presents its technical offerings designed to endure harsh milling environments. Operating globally under its recognized brand, the company has solidified its reputation as a global leading forged steel ball exporter by delivering high-performance grinding solutions tailored to severe processing demands. The presentation at the exhibition aligns with the core theme of resilient material engineering, highlighting how advanced metallurgical processing enables consumables to withstand severe impact without structural failure.

Engaging with South American Mining Operations at EXPOSIBRAM 2026

During the exhibition, the technical team from Blastany engages directly with procurement managers, metallurgists, and operational engineers representing South American copper, gold, and iron ore mines, alongside representatives from regional cement plants and thermal power facilities. The display features a comprehensive range of [forged steel ball](#) samples with diameters ranging from 20mm to 150mm, manufactured utilizing specialized B2 and B3 alloy materials. Visitors to the pavilion have the opportunity to examine the physical characteristics of these grinding media, which are engineered specifically to maintain high volumetric integrity under intense mechanical stress. The booth serves as an interactive hub where engineering professionals review specific performance metrics under localized geological extraction conditions.

The interactions at the event focus significantly on addressing the practical challenges faced by concentrator plants, particularly the issues of premature spalling and high volumetric breakage rates in ball mills. Jinan Junda Industrial Technology Co., Ltd provides comprehensive documentation to prospective partners, including verified chemical composition analyses, cross-sectional hardness mapping, and impact toughness evaluation reports. These technical portfolios demonstrate the ability of the grinding media to maintain a low breakage rate during continuous operation. Discussions also cover grinding media selection based on specific ore profiles and customizable bulk export logistics schemes for South America.

Technical Specification and Core Advantages Under Severe Impact

The performance of grinding media in high-capacity ball mills depends fundamentally on the quality of the raw materials and the precision of the subsequent thermal processing. Jinan Junda Industrial Technology Co., Ltd optimizes these variables through a specialized, multi-stage manufacturing framework:

- **Premium Material Selection and Precision Air Hammer Forging**

The manufacturer utilizes high-quality round steel bars as the primary raw material, ensuring strict control over elemental composition and chemical purity from the outset. The production process involves precise induction heating and advanced air hammer forging techniques, which refine the internal grain structure, align the material flow lines, and completely eliminate microstructural porosity or internal defects.

- **Proprietary Heat Treatment and Uniform Hardness Gradient**

Following the forging phase, the grinding media undergo an automated thermal treatment process consisting of precise quenching and tempering cycles. This specialized process yields a high surface hardness ranging from 58 HRC to 65 HRC and ensures a highly uniform hardness gradient extending from the exterior surface directly to the geometric core of the sphere, which effectively prevents uneven

wear patterns and surface peeling.

- **Optimized Metallurgical Alloy and High Impact Durability**

The controlled addition of carbon, manganese, and chromium within the B2 and B3 material specifications results in a highly dense, uniform martensitic microstructure. This precise composition ensures that the forged steel ball exhibits excellent impact toughness, measuring greater than or equal to 12 Joules per square centimeter, which maintains the volumetric breakage rate well below 1 percent under continuous high-velocity milling impacts.

Industrial Applications and Global Export Logistics Infrastructure

The technical properties of the grinding media produced by Jinan Junda Industrial Technology Co., Ltd make them suitable for diverse industrial comminution processes. Beyond mineral processing involving iron, copper, and gold extraction, these products are deployed in cement plant grinding stations, pulverized coal preparation systems of thermal power facilities, and chemical manufacturing fine grinding circuits. The durability of the media ensures consistent output across wet and dry grinding operations, meeting the specific volumetric throughput demands of each distinct sector.

To accommodate varying equipment scales and specific processing requirements, Blastany offers flexible manufacturing capabilities, allowing the customization of nominal diameters and precise dimensional tolerances according to client specifications. Recognizing the critical importance of secure transport and efficient material handling at the mine site, the company provides robust packaging configurations, including heavy-duty moisture-resistant ton bags and reinforced steel drums.

Leveraging over two decades of industrial experience, Jinan Junda Industrial Technology Co., Ltd has established an extensive global distribution network, supplying products and technical services to clients across more than 90 countries and regions. This vast international footprint establishes the enterprise as a dependable forged steel ball exporter capable of managing complex cross-border supply chains. By utilizing integrated multimodal transport networks, including optimized maritime routes and specialized inland freight logistics, the company guarantees consistent and predictable delivery schedules to remote mining sites throughout South America and other key global mining jurisdictions.

Driving Cost-Efficiency in Modern Grinding Operations

As mining operations face declining ore grades, processing plants must increase daily throughput while controlling maintenance costs. Grinding media consumption represents a substantial variable cost in mineral processing, making wear resistance and impact durability vital economic considerations. The forged steel ball solutions offered by Blastany address these industrial cost-reduction mandates by minimizing media consumption rates and reducing mill downtime associated with sorting or replacing deformed media.

Participation at EXPOSIBRAM 2026 underscores the long-term commitment of Jinan Junda Industrial Technology Co., Ltd to serving the global grinding media market through continuous material innovation and robust quality assurance protocols. By presenting objective engineering data and field-tested performance metrics, the enterprise demonstrates its capacity to support the operational stability of large-scale milling circuits globally. Operational managers and procurement professionals seeking to optimize grinding efficiency and evaluate customized testing samples are invited to explore the technical resources and product portfolios available via the official corporate portal.

For further information regarding the complete product specifications, manufacturing capabilities, and global service networks, please visit the official company website at <https://www.blastany.com/>.



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