

Five Reputable Ball Mill Manufacturers in China 2026: Advancing Industrial Grinding Technology

Exploring industrial ball mill designs and their applications in mineral processing, material preparation and powder production.

CALIFORNIA, CA, UNITED STATES, October 9, 2026 /EINPresswire.com/ -- Zhengzhou, China ,October 9, 2026 — China remains an important supplier of machinery for crushing and grinding stone, ores and minerals. World Bank WITS data based on UN Comtrade records approximately USD 1.28 billion in Chinese exports under HS code 847420 in 2024, a category covering machinery for crushing or grinding earth, stone and ores. Meanwhile, Dataintelo estimates that the global mining ball mill market will grow from USD 4.94 billion in 2025 to USD 8.23 billion by 2034.



ZK MACHINE
ZHENGZHOU MINING MACHINERY

Logo for Henan Zhengzhou Mining Machinery Co., Ltd.

As demand for industrial grinding equipment continues to evolve, manufacturers are addressing different requirements across cement production, mining, mineral processing, ceramics and industrial powder preparation. This article reviews five Chinese manufacturers: Henan Zhengzhou Mining Machinery Co., Ltd. (ZK MACHINE), Xinxiang Great Wall Machinery Co., Ltd. , Shibang Industry & Technology Group Co., Ltd. , Henan Liming Heavy Industry Science & Technology Co., Ltd., and Guilin Mining Machinery Co., Ltd. The profiles outline their product offerings and relevant application areas without presenting the sequence as a performance ranking.

Ball mills use rotating cylinders and grinding media to reduce material particle size or blend materials. They are widely used in cement manufacturing, mining, mineral processing, ceramics, metallurgy, chemicals and other industrial sectors. Equipment selection depends on feed characteristics, required throughput, target fineness, moisture content and downstream process requirements.

Common configurations include a [Cement Ball Mill](#) for cement grinding, a [Raw Mill](#) for raw-material preparation, and a Clinker Mill for clinker grinding. Other applications include Limestone Ball Mill systems for limestone processing, Coal Ball Mill and Air Swept Coal Mill configurations for coal grinding, and Mining Ball Mill systems for ore processing. Rod Mill equipment, Ceramic Ball Mill systems and laboratory-scale [Lab Ball Mill](#) units serve additional process requirements.

Ball mills can also be specified as Continuous Ball Mill or Batch Ball Mill systems, depending on production arrangements. Dry Ball Mill and Wet Ball Mill configurations address different material and process conditions, while Grate Discharge Ball Mill and Overflow Ball Mill designs provide alternative discharge arrangements. For industrial mineral applications, Dolomite Ball Mill and Quartz Ball Mill configurations may be considered according to the material and target product specifications.

Energy consumption, grinding-media wear, maintenance access and integration with classifiers or separators are important considerations when evaluating an Energy Saving Ball Mill design or a complete grinding circuit. The most suitable configuration depends on process data rather than the product name alone.

Five Ball Mill Manufacturers in China

1. Henan Zhengzhou Mining Machinery Co., Ltd.

Established in 1956, Henan Zhengzhou Mining Machinery Co., Ltd., known as ZK MACHINE, manufactures mining machinery and process equipment, with ball mills and rotary kilns among its principal product lines. Its grinding equipment portfolio serves cement production, raw-material preparation, coal grinding, ore processing and ceramic applications.

The company's published range includes Cement Ball Mill, Raw Mill, Clinker Mill, Limestone Ball Mill, Coal Ball Mill, Air Swept Coal Mill, Rod Mill, Mining Ball Mill, Ceramic Ball Mill and Lab Ball Mill configurations. It also lists dry and wet grinding options, continuous and batch operation, and grate-discharge and overflow-discharge designs. Product selection depends on material properties, required fineness, throughput and process conditions.

According to its published product information, the general ball mill series covers sizes from

$\Phi 1.2 \times 4.5$ m to $\Phi 4.6 \times 10 + 3.5$ m, with a stated capacity range of approximately 0.8–230 t/h, feed sizes up to 25 mm and output sizes of about 0.07–0.4 mm, depending on configuration and operating conditions.

Its product-specific ranges include cement ball mills from $\Phi 1.2 \times 4.5$ m to $\Phi 4.6 \times 10$ m, with capacities of approximately 1.4–87 t/h; raw mills from $\Phi 1.2 \times 4.5$ m to $\Phi 3.5 \times 10$ m, with capacities of 1.7–73 t/h and grinding-media loads of 5–118 t; and air-swept coal mills from $\Phi 1.2 \times 2.4$ m to $\Phi 2.9 \times 4.7$ m, with capacities of 1.4–16 t/h and motor power of 45–570 kW. Published coal-mill specifications also identify typical fineness of at least 85% passing 200 mesh.

Other products include rod mills from $\Phi 0.9 \times 1.8$ m to $\Phi 3.6 \times 5.4$ m, with stated capacities of 0.62–250 t/h and main motor power of 22–1,600 kW; ore ball mills with capacities listed from 0.5–930 t/h across the published size range; ceramic ball mills with batch loading capacities of 0.05–15 t; and laboratory ball mills with batch loading capacities of 0.2–1.5 t. Actual performance depends on the material, equipment configuration and process conditions.

ZK MACHINE reports an 80,000-square-metre manufacturing site comprising eight modern workshops and five heavy-duty workshops, with more than 60,000 square metres of workshop space and an annual production capacity of 200 units. The company reports approximately 235 employees and manufacturing equipment that includes boring and milling machines, gear hobbing machines, vertical lathes and heavy-duty cranes. It also identifies an in-house process testing workshop and testing and analysis centre as part of its manufacturing resources.

The company reports holding ISO 9001 quality management, ISO 14001 environmental management and ISO 45001 occupational health and safety certifications. It also lists an Integration Management System certification and an Environmental Protection Engineering Professional Contracting qualification. ZK MACHINE states that it has participated in drafting more than 10 industry standards and holds more than 150 core patents and more than 20 software copyrights. It reports supplying products and process systems to customers in more than 130 countries and regions, with international business accounting for approximately 40% of its activity. Current certificate validity, technical credentials and company statistics should be confirmed directly where required for supplier qualification.

2. Xinxiang Great Wall Machinery Co., Ltd.

Founded in 1958, CHAENG manufactures grinding and pyro-processing equipment for cement, building materials and mineral-processing projects. Its portfolio includes ball mills, vertical mills, rotary kilns and large steel castings. The company also describes engineering and project-delivery services covering equipment manufacturing, installation, commissioning and spare-parts support. Its ball mills are used for materials including cement, slag, coal and various mineral ores.

3. Shibang Industry & Technology Group Co., Ltd.

SBM supplies crushing and grinding equipment for mining, aggregates and industrial powder production. Its published range includes ball mills, vertical grinding mills, ultrafine grinding mills, crushers and sand-making equipment. These products serve mineral processing and other industrial applications requiring different feed sizes and output fineness. Buyers should confirm the model-specific capacity and material suitability for each project.

4. Henan Liming Heavy Industry Science & Technology Co., Ltd.

Henan Liming Heavy Industry develops and manufactures crushing and grinding machinery. Its published products include ball mills, vertical mills, Raymond mills, ultrafine grinding mills and mobile crushing equipment. The equipment portfolio serves cement, limestone, coal, slag and other mineral-processing applications, making the company relevant to projects involving multiple stages of crushing and grinding.

5. Guilin Mining Machinery Co., Ltd.

Guilin Mining Machinery, also known as GUIKUANG, traces its origins to 1973 and focuses on powder-processing equipment. Its published range includes ball mills, Raymond mills, vertical roller mills, ultrafine grinding mills, classifiers and related processing equipment. Its products are associated with industrial powder preparation and non-metallic mineral applications, with equipment selection depending on the material, required fineness and production capacity.

Technical Considerations for Industrial Grinding Projects

For cement plants, mineral processors and other industrial users, supplier evaluation should begin with the feed material, required throughput and target product size. Grinding method, discharge design, circuit configuration, liner materials and grinding media all influence the final equipment specification.

Additional considerations include energy consumption, wear-part life, dust control, maintenance requirements and compatibility with downstream classification or separation equipment. Depending on the application, projects may also require corrosion resistance, temperature management or explosion-protection measures. Buyers should confirm relevant quality

documentation, installation support, commissioning arrangements and spare-parts availability with each supplier.

Market Outlook

The projected growth of the mining ball mill market highlights the continuing importance of grinding equipment in mineral processing. At the same time, cement production, industrial minerals and ceramic applications maintain their own requirements for throughput, fineness and process reliability.

Materials such as limestone, quartz, dolomite and coal require configurations suited to their physical properties and intended use. Other feedstocks, including aluminum ash and lithium-bearing materials, may require specific testing and process validation before equipment selection. Where unfamiliar materials are involved, laboratory testing or pilot-scale trials can help establish appropriate grinding parameters.

For procurement teams evaluating ball mill manufacturers in 2026, a practical approach is to define material characteristics, target fineness and capacity first, then compare equipment configuration, engineering scope, technical documentation and service arrangements. This provides a consistent basis for assessing suppliers while accounting for the requirements of individual industrial projects.

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