



Khair Al Delky Manufacturing Co.

KD Grinding Media

Engineered to Endure

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Engineering a Lower Cost-Per-Ton

As a premier manufacturer of high-performance grinding media, KD Grinding Media partners with the world's most demanding mining, cement, and power generation operations. Founded on deep mechanical engineering expertise, we do not simply supply steel—we deliver precise **metallurgical solutions designed to optimize mill charge kinetics, maximize impact toughness, and drastically reduce the overall Cost-Per-Ton of mineral processing**



Hammer-Forged Steel Media

Engineered for massive impact in SAG and primary ball mills. Automated high-pressure forging delivers a dense, zero-porosity microstructure. Available in precise diameters from 40mm to 120mm.



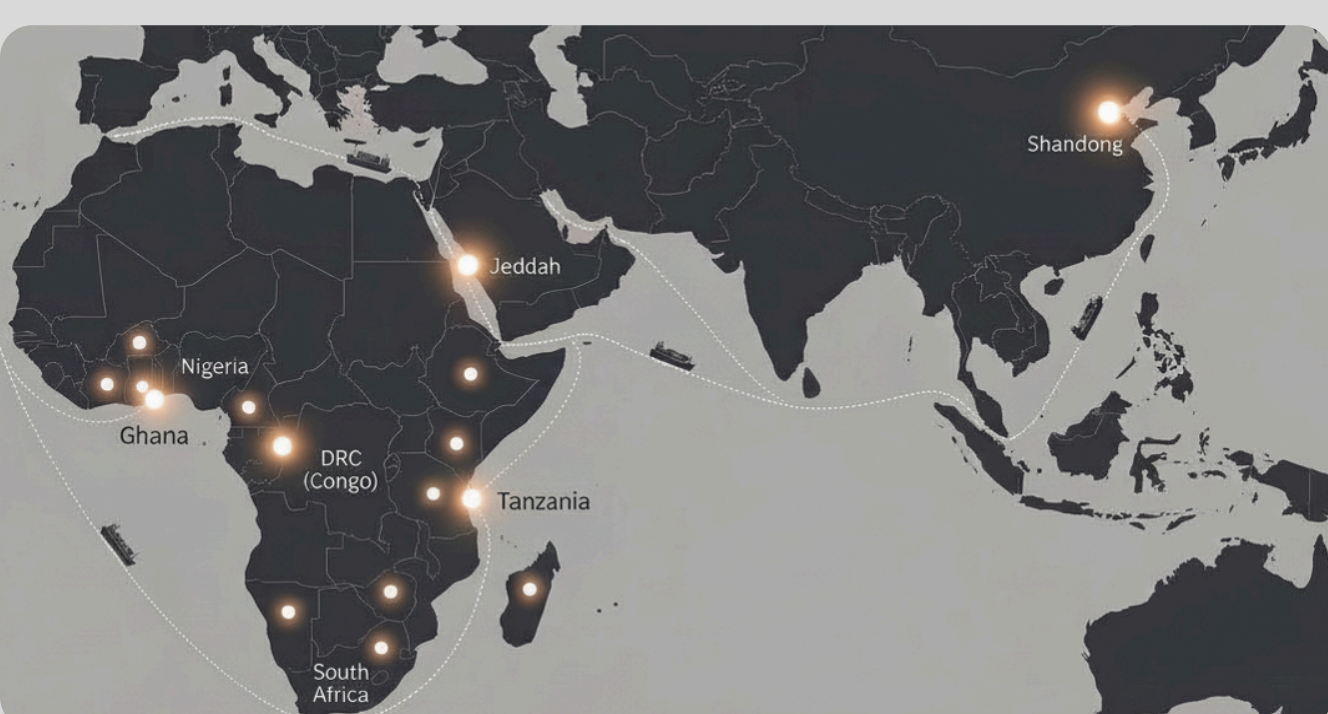
High-Chrome Cast Media

Designed for extreme abrasion resistance in fine-grinding cement and coal mills. Precision-cast and densely packed with primary carbides to maintain a perfect spherical shape and reduce wear.



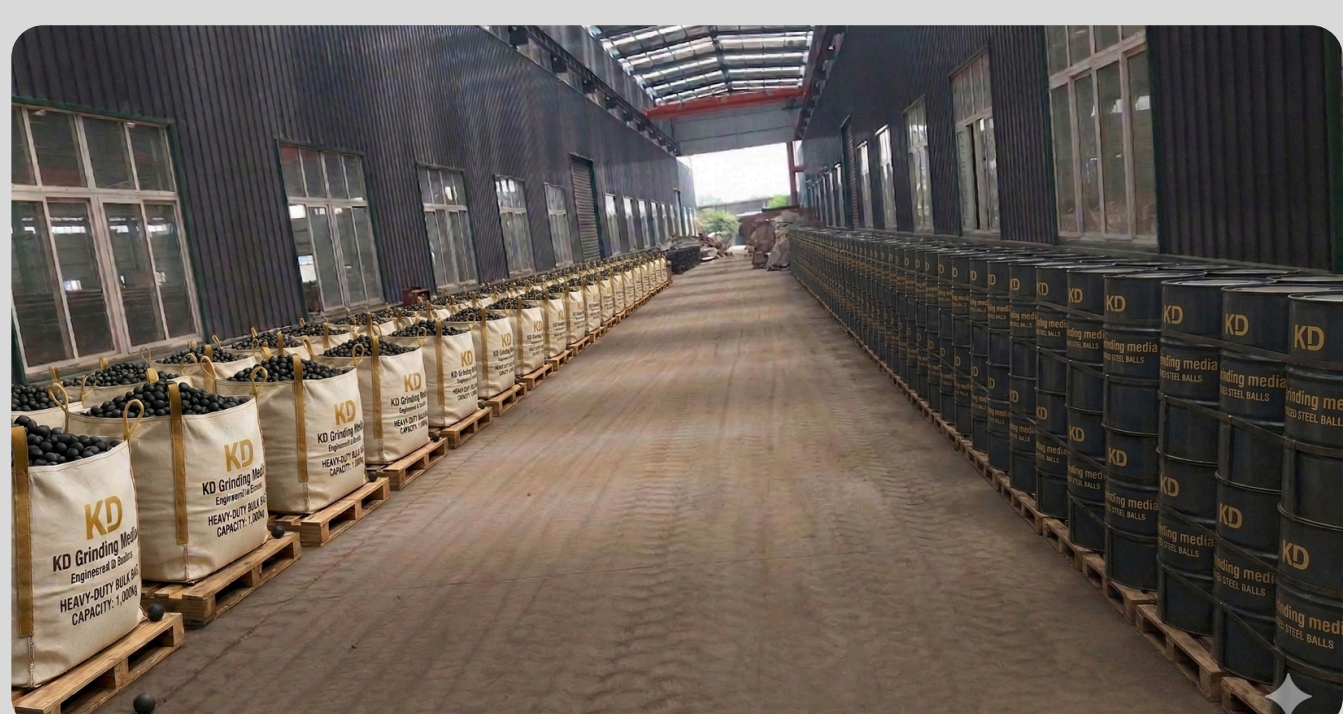
High-Carbon Grinding Rods

Optimized for parallel coarse grinding with strict straightness tolerances. Hot-rolled and precision-straightened with a resilient, ductile core to absorb heavy impact without snapping.



Global Scale, Local Support

KD Grinding Media operates on a highly efficient Dual-Hub model. We combine massive, automated Tier-One manufacturing capacity in China with localized technical engineering, alloy consulting, and commercial support. You get factory-direct pricing with local accountability



Massive Supply Chain

We eliminate your inventory risk. Through secure, heavy-duty drum and bag packaging combined with seamless ocean-to-site freight management, we guarantee continuous, uninterrupted plant uptime for the most demanding heavy industries



Contact Us



Request Quote or Survey

KD Grinding Media

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Name / Job Title

Company Name

Email Address

Message

Submit

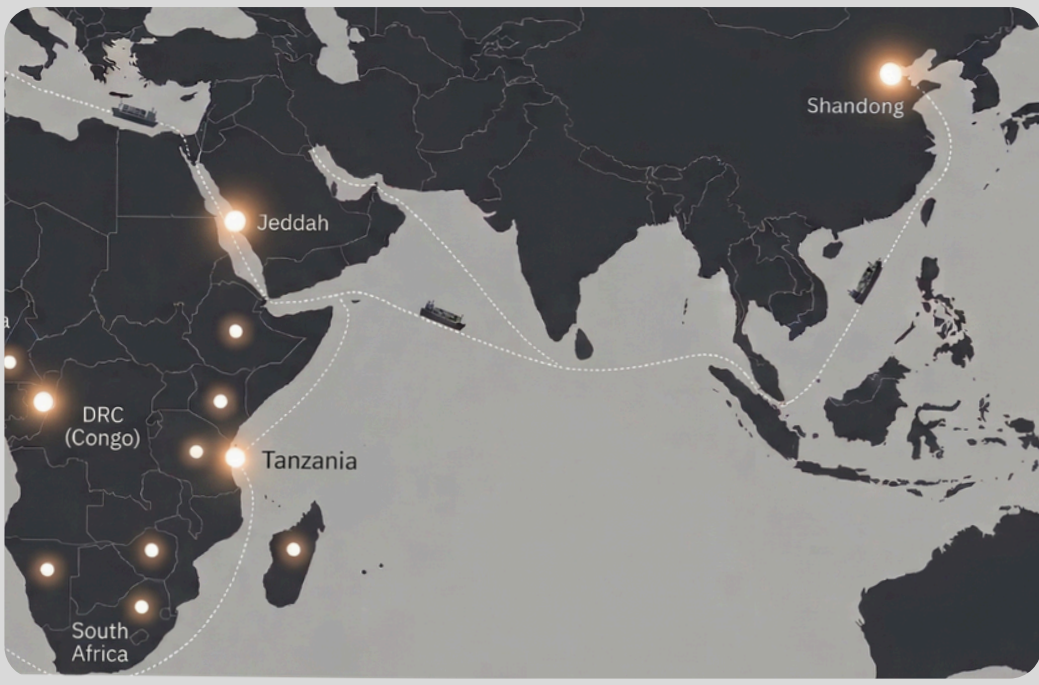
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Engineered to Endure

Global Manufacturing. Local Accountability

Khair Al Delky Manufacturing Co. (KD Grinding Media) bridges the gap between massive Tier-One production capacity and localized, on-the-ground engineering support for the world's most demanding mining and cement operations



The Best of Both Worlds

While our heavy manufacturing engine operates in Shandong, China, our true competitive advantage is our Technical Hub in Saudi Arabia. We built this hub specifically to bridge the gap between overseas factory pricing and elite, highly responsive engineering support. We do not just ship steel and disappear. Our technical team operates globally—wherever your mining or cement operation is located, we will deploy our engineers directly to your site to audit your mill, analyze wear patterns, and solve complex metallurgical challenges face-to-face, with one single objective: **permanently driving down your overall Cost-Per-Ton.**



Production Infrastructure

Versatility and consistency are the ultimate metrics in comminution. Unlike single-process facilities, our production floor is engineered to supply your entire operation. We operate three dedicated, state-of-the-art manufacturing lines under one roof:

- **Fully Automated Hammer Forging:** Our flagship line specializes in high-impact grinding media from 60mm to 150mm, removing human error to guarantee strict dimensional tolerances.
- **Advanced High-Chrome Casting:** Precision-alloyed cast media engineered for maximum wear resistance in highly abrasive, fine-grinding environments.
- **Heavy-Duty Grinding Rods:** High-carbon, linear milling solutions manufactured for optimal straightness and strict resistance to volumetric breakage.

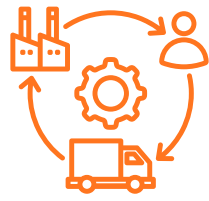
By controlling all three manufacturing processes, we guarantee complete metallurgical integrity across your entire mill charge.

Our Core Commitments



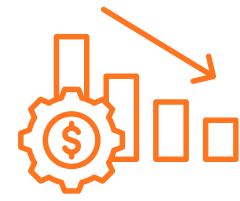
Metallurgical Integrity

We do not cut corners on raw materials. Every batch is spectrographically tested to ensure strict adherence to our high-carbon, high-chrome alloy recipes, guaranteeing uniform volumetric hardness from the surface to the core.



Supply Chain Security

A mill cannot afford to stop. Through our strategic stockpiling capabilities and heavy-duty ocean freight logistics from Shandong, we guarantee continuous, uninterrupted inventory replenishment for the most demanding mining operations.



Lowering Cost-Per-Ton

We don't just sell steel; we sell efficiency. Our Dammam-based engineering team works directly with your plant managers to optimize your mill charge trajectory, minimize wear rates, and actively drive down your overall consumable spend.

Internationally Certified :



Challenge Our Engineering Team

Whether you are grinding highly abrasive gold and copper ores or running a massive cement operation, stop accepting average wear rates. Let our technical team audit your mill and prove exactly how much we can lower your Cost-Per-Ton.

[Request a Grinding Media Survey](#)

[Speak to an Engineer Today](#)

Precision-Engineered Comminution Solutions

Manufactured for maximum impact and sustained wear resistance. Explore our three dedicated product lines built for the world's most demanding mining and cement operations



High-Carbon Forged Steel Balls

Engineered specifically for extreme impact comminution, our flagship forged media delivers unparalleled shape retention and structural integrity

- **Manufacturing Process:** Fully automated hammer forging line.
- **Diameter Range:** 40mm – 150mm (Custom sizing & chemical Composition available).
- **Volumetric Hardness:** 62–65 HRC (Uniform profile from surface to core).
- **Breakage Rate:** Guaranteed strictly $\leq 1.0\%$.
- **Ideal Application:** High-impact SAG and primary Ball Mill environments.



Data Sheet

High-Chrome Cast Grinding Media

Engineered for maximum abrasion resistance, our cast media is precision-alloyed to maintain shape and outlast the competition in highly corrosive, fine-grinding environments.

- **Alloy Composition:** Precision high-chromium formulations (Customized to your specific ore abrasiveness).
- **Wear Performance:** Exceptional shape retention resulting in a lower, more predictable wear rate.
- **Quality Control:** Spectrographically tested pre- and post-cast to guarantee strict chemical adherence.
- **Ideal Application:** Cement tube mills, and secondary/tertiary mineral processing.



Data Sheet



Heavy-Duty Grinding Rods

Manufactured for optimal linear straightness, our high-carbon grinding rods are engineered to withstand extreme rotational loads without bending or breaking.

- **Material Composition:** High-carbon, premium alloy steel.
- **Structural Integrity:** Heat-treated for strict resistance to volumetric breakage and surface spalling.
- **Dimensional Accuracy:** Precision cut and straightened to guarantee uniform mill charge dynamics.
- **Ideal Application:** Primary and secondary comminution in traditional Rod Mills.



Data Sheet

Need a Specific Alloy Formulation?

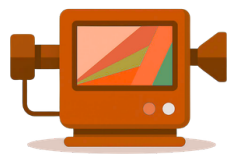
Every ore body is different. Submit your mill characteristics and grinding media specs then our metallurgical engineers will custom-design a grinding media charge that minimizes your wear rates and maximizes throughput.

Request a Custom Mill Survey

Uncompromising Quality Assurance

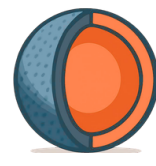
From raw billet to final quench, our metallurgical testing laboratory ensures strict chemical adherence, uniform volumetric hardness, and zero structural defects. We don't guess; we verify

Our 3-Stage Testing Protocol



Chemical Analysis

Before forging or casting begins, every heat of raw steel is analyzed using advanced optical emission spectrometry. We strictly control the carbon, chromium, manganese, and silicon levels to ensure the exact alloy formulation required for your specific ore abrasiveness.



Volumetric Hardness (HRC)

Surface hardness means nothing if the core is soft. We conduct destructive testing by halving batch samples to precisely measure the Rockwell Hardness (HRC) on both the surface and the absolute core. This ensures a consistent hardness profile and guarantees uniform wear rates across the life of the media.



High-Impact Drop Testing

To simulate the extreme kinetic energy of primary SAG and large Ball mills, our media undergoes rigorous drop-ball fatigue testing. We subject our forged and cast media to thousands of repeated high-velocity impacts to guarantee a strict breakage rate of $\leq 1.0\%$.



100% Batch Traceability

Accountability is built into our supply chain. Every single ton of grinding media we produce is assigned a unique batch code linked directly to its corresponding metallurgical data sheet. This guarantees that whether your mill is running today or three years from now, you will receive the exact same certified quality and alloy consistency.



Review Our Metallurgical Data

Don't just take our word for it. Download our latest testing reports or request a sample of our media for your own independent laboratory analysis.

[Request a Test Sample](#)

Connect With Our Engineering Team

Whether you need a custom mill survey, a metallurgical data sheet, or direct pricing for your next mill charge, our global team is ready to assist

The B2B Contact Form



Global Engineering Support

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Manufacturing & Global Logistics

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