



Grinding Media



FRC Global represents one of the largest manufactures of world-class grinding media in China. The product is primarily used in the grinding processes for cement, lime and mining industry worldwide. The main manufacturing facility is over 100,000 square meters with over 80 engineers and research staff. Full product customization is per your requirements. Our manufacturing facilities feature 15 sets of fully automatic/robotic lines of rolling and forging machines with annual production in excess of 200,000 metric tons.

Allow us to study your current process requirements and we will present a world-class product at a very competitive price point.

Forged Grinding Balls

Application: Mining, Cement plant, Power plant, Chemical industry

Product Features: Tests at an 8M drop height performed for over 20,000 cycles show less than 0.5% breakage rate. Typical performance delivers ultra-low wear rate and almost zero breakage with no deformation. Impact stress is more than 12 J/cm³, surface hardness 58-65HRC, core hardness 56-63HRC, volumetric hardness 57-64HRC.



Main Performance:

Size (mm)	Hardness	Breakage rate	Impact toughness	Endurance test (times)
20-150	custom	<0.5%	>12 J/cm ²	>20000

Grinding Rods

Application: Mining, Chemical industry

Product Features: Typical product shows almost zero broken or bent rod stock after extended usage. The product demonstrates an ultra-low wear rate with a typical reduction of 20-50% of the established baseline. The typical product performance shows real value in higher temperature and high corrosion conditions. Hardness reaches 45-55HRC.



Main Performance:

Size (mm)	Hardness	Materials	Straightness
50-115	45HRC-55HRC	Alloy Steel	<1.5 mm/m

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Grinding Cylpebs

Application: Mainly in large mine sites, etc.

Product Features: Unique automatic production line for the grinding cylpebs, stable quality, high production efficiency, high hardness, good wear-resistant, volumetric hardness 60-63HRC, breakage is less than 0.5%, structure is compact, hardness is consistent from the inner to the surface, wear rate is about 30g-60g per ton of cement



Main Performance:

Size (mm)		Hardness	Breakage rate	Materials
8x10	10x12	58HRC-63HRC	≤0.5%	Alloy steel
12x14	14x16			
16x18	18x20			
20x25	25x30			
30x35	30x40			
40x50	50x60			



Casting Ball

Application: Cement

Product Features: Strong qualities against heat and corrosion, chrome content from 1% to 28%, hardness from 45HRC to 63HRC, exact size and data can be produced according to the customer's requirements, especially useful in the cement industry where the working conditions include high temperatures and corrosion risks



Main Performance:

Size (mm)	Hardness
10mm-125mm	45HRC-63HRC

FRC Global is a leading supplier of refractories, electrodes, and high temperature combustion systems.

We provide outstanding results for our clients within the iron, steel, and non-ferrous industries. Our company's reputation is built by delivering high quality products made with premium raw materials.

Through the use of vast global resources, all of us at FRC Global are committed to being the value creators and problem solvers for our industry.

