WHO WE ARE - ABOUT THE FACTORY

Harness Rear Earth, Benefit the World.

Our Factory, located in Inner Mongolia, one of the largest rare earth production areas in China, was established on May 8, 2005, with a registered capital of 70.55 million RMB, covers 80 acres and has a production capacity of 200,000 tons. As a high-tech enterprise, it specializes in the research, development, and manufacturing of rare earth applications in industrial metal components — Grinding Balls, Grinding Cylpebs and Grinding Rods.

It is the first company in China to achieve the standardized application of rare earth and rare earth alloy materials in industrial metal components. It is the largest production base for rare earth alloy industrial metal components in the country. Multiple core technologies and products developed by the company have filled industry gaps.

In addition to our flagship facility in Inner Mongolia, we have also established production plants in Shandong and Anhui provinces. These strategically located facilities enable us to efficiently serve customers in Northern and Eastern China, offering significant logistical and cost advantages for shipping and distribution.



5	4	300+	200M ANNUAL OUTPUT
SUBSIDIARY	R&D INSTITUTION	EMPLOYEES	
50	64 PATENTS	20K	3

FACTORY VIEW







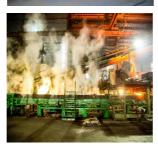






























WHY CHOOSE US



Industry-Leading Technology



Strong R&D and Innovation



Comprehensive Product Range



Largest Production Base



Resource and Cost Advantage



Reliable and Secure Partnership

PATENTS & CERTIFICATIONS



















View more at our website: www.grindium.com

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CAST GRINDING BALL - High Chromium

- · High Chromium Cast Grinding Balls
- · Premium type of cast grinding media
- · Superior wear resistance and durability, good corrosion resistance
- Diameter Range: 17mm 150mm
- Customized available
- MOQ: 25 tons / 20ft container









We need SIZE, MATERIAL, Chemical Composition, or other requirements to provide an accurate quotation.

We provide a variety of materials such as high chromium, medium chromium, and low chromium, and they are numbered in the parameters below. You can directly select or send us your product requirements, and we will give an accurate quotation based on the product requirements.

Technical Parameters

Material Gr.	Diameter(inch)	Hardness(HRC)	Breakage rate	Impact value(J/cm²)	Drop Times	Micro Structure
ZQCr26	1/2" - 5"	>62	<1%	>7	≥20,000	M+C
ZQCr20	1/2" - 5"	>62	<1%	>6	≥20,000	M+C
ZQCr15	1/2" - 5"	>62	<1%	>5	≥20,000	M+C
ZQCr12	1/2" - 5"	>60	<1%	>3.5	≥20,000	M+C
ZQCr8	1/2" - 5"	>58	<1%	>3	≥20,000	M+C

Chemical Composition

Material		Chemical Composition (%)											
Gr.	С	Si	Mn	Cr	Мо	Cu	Ni	Р	S				
ZQCr26	2.0-3.3	1.2max	0.3-1.5	>23.0-30.0	0-3.0	0-1.2	0-1.5	≤0.10	≤0.06				
ZQCr20	2.0-3.3	1.2max	0.3-1.5	>18.0-23.0	0-3.0	0-1.2	0-1.5	≤0.10	≤0.06				
ZQCr15	2.0-3.3	1.2max	0.3-1.5	>14.0-18.0	0-3.0	0-1.2	0-1.5	≤0.10	≤0.06				
ZQCr12	2.0-3.3	1.2max	0.3-1.5	>10.0-14.0	0-3.0	0-1.2	0-1.5	≤0.10	≤0.06				
ZQCr8	2.1-3.3	2.2max	0.3-1.5	7.0-10.0	0-1.0	0-0.8	-	≤0.10	≤0.06				

Diameter Tolerance

Diameter(inch)	Ф<1.2"	1.2"<Ф<2.4"	2.4" <Ф<3.2"	3.2"<Ф<4"	Ф>4"
Tolerance(inch)	+0.04", -0.04"	+0.06", -0.04"	+0.08", -0.04"	+0.1", -0.04"	+0.12", -0.04"

CAST GRINDING BALL - Medium & Low Chromium

Medium Chrome Alloy Cast Grinding Balls offer a balance between hardness, toughness, and cost-effectiveness. Low chromium cast grinding balls are a type of grinding media with a relatively low chromium content, typically ranging from 1%-3%. These balls are widely used in cement plants, mining, power stations, and chemical industries for grinding applications in ball mills and vertical mills.

Diameter Range: 17mm - 150mm

Customized available

MOQ: 25 tons / 20ft container







Technical Parameters

Material Gr.	Diameter(inch)	Hardness(HRC)	Breakage rate	lmp	act value(J/cm²)	Drop times	Micro structure
ZQCr5	0.5"-6.7"	>47	<1%		>2	≥15,000	M+C
ZQCr2	0.5"-6.7"	>45	<1%		>1.5	≥15,000	P+C

Diameter Tolerance

Diameter(inch)	Ф<1.2"	1.2"<Ф<2.4"	2.4" <Ф<3.2"	3.2"<Ф<4"	Ф>4"
Tolerance(inch)	+0.04", -0.04"	+0.06", -0.04"	+0.08", -0.04"	+0.1", -0.04"	+0.12", -0.04"

Chemical Composition

Material		Chemical Composition (%)											
Gr.	С	Si Mn		Cr	Мо	Cu	Ni		Р				
ZQCr5	2.1-3.3	1.5max	0.3-1.5	4.0-6.0	0-1.0	0-0.8	-	≤0.10	≤0.10				
ZQCr2	2.1-3.6	1.5max	0.3-1.5	1.0-3.0	0-1.0	0-0.8	-	≤0.10					

Specification of Weight

Diameter	Weight Per Ball	Qty. per Ton	Diameter	Weight Per Ball	Qty. per Ton	
Ф0.8"	0.034	31,056	Ф3.2"	2.05	487	
Ф1"	0.063	15,873	Ф3.5"	2.9	345	
Ф1.2"	Ф1.2" 0.11		3.94"	4.0	250	
Ф1.6"	0.26	3,891	Ф4.33"	5.3	188	
Ф2.0"	0.51	2,000	Ф4.72"	6.8	147	
Ф2.4"	0.86	1,153	Ф4.92"	7.75	129	
Ф2.8"	1.37	729	Ф5.12"	8.74	74	

FORGED (ROOLING) GRINDING BALLS

- · Advanced Forging Technology and Processes
- · High-Quality Material Selection
- · Rigorous Quality Control Systems
- · Customization and Product Diversity
- Diameter Range: 30 40 50 60 70 80 90 100 110 120 125 150mm
- MOQ: 25 tons / 20ft container









We need SIZE, MATERIAL, Chemical Composition, or other requirements to provide an accurate quotation.

We provide a variety of materials and they are numbered in the parameters below. You can directly select or send us your product requirements, and we will give an accurate quotation based on the product requirements.

Diameter Tolerance

Diameter	1.18"	1.57"	1.97"	2.36"	2.76"	3.15"	3.54"	3.94"	4.33"	4.72"	4.92"	5.91"
Diameter Tolerance (inch)	inch) ±0.08"			+0.12"	+0.12", -0.08" +0.16", -			",-0.1	2"	+0.2", -0.16"		
Roundness(%)		≤2				≤ 3			:	≤ 4		≤5

Chemical Composition

Material	Breakage rate	Hardness (HRC)	Impact value (J/cm²)	Drop Test (times)	Microstructure
45#	<1%	≥55	≥12	≥12000	M+C
60Mn	<1%	≥55	≥12	≥12000	M+C
65Mn	<1%	≥58	≥12	≥12000	M+C
70Mn	<1%	≥60	≥12	≥12000	M+C
40Cr	<1%	≥55	≥12	≥12000	M+C
70Cr2	<1%	≥58	≥12	≥12000	M+C
B-2	<1%	≥58	≥12	≥15000	M+C
B-3	<1%	≥60	≥12	≥15000	M+C

Onemiour our	poortion								
Material	C (%)	Si (%)	Mn (%)	Cr (%)	Cu (%)	Mo (%)	P (%)	S (%)	Ni (%)
45#	0.42-0.50	0.17-0.37	0.5-0.80	0-0.25	0-0.25	0-0.30	0-0.035	0-0.035	0-0.30
60Mn	0.57-0.65	0.17-0.37	0.70-1.0	0-0.25	0-0.25	0-0.30	0-0.035	0-0.035	0-0.30
65Mn	0.62-0.70	0.17-0.37	0.90-1.0	0-0.25	0-0.25	0-0.30	0-0.035	0-0.035	0-0.30
70Mn	0.67-0.75	0.17-0.37	0.90-1.20	0-0.25	0-0.25	0-0.30	0-0.035	0-0.035	0-0.30
40Cr	0.37-0.45	0.17-0.37	0.50-0.8	0.80-1.1	0-0.25	0-0.30	0-0.035	0-0.035	0-0.30
70Cr2	0.65-0.75	0.20-0.30	0.75-0.90	0.55-0.70	0-0.25	0-0.30	0-0.030	0-0.030	0-0.30
B-2	0.70-0.80	0.17-0.37	0.70-0.80	0.50-0.60	0-0.25	0-0.30	0-0.035	0-0.035	0-0.30
B-3	0.58-0.66	1.2-1.6	0.65-0.80	0.70-0.90	0-0.25	0-0.30	0-0.035	0-0.035	0-0.30

CAST GRINDING CYLPEBS - High Chromium

• Diameter(mm): 8-60mm, customize diameter

Hardness(HRC): >58
 Breakage rate: <1%
 Drop Test(times): ≥12000
 Customized available

MOQ: 25 tons / 20ft container









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We provide a variety of materials such as high chromium, medium chromium, and low chromium, and they are numbered in the parameters below. You can directly select or send us your product requirements, and we will give an accurate quotation based on the product requirements.

Dimension & Tolerance

0.32"x 0.39"	0.39"x0.47"	0.47"x0.55"	0.55"x0.63"	0.63"x0.71"	0.71"x0.79"	0.79"x0.98"	Diameter: ±0.04"
0.98" x1.18"	1.18"x1.38"	1.38"x1.57"	1.57"x1.77"	1.77"x1.97"	1.97"x2.17"	2.17"x2.36"	Length: 0.08"

Technical Features

Material Gr.	Diameter (mm)	Hardness (HRC)	Breakage rate	Impact value(J/cm²)	Drop Test (times)	Microstructure
ZQCr26	0.4"-2.36"	>58	<1%	>7	≥12000	M+C
ZQCr20	0.4"-2.36"	>58	<1%	>6	≥12000	M+C
ZQCr15	0.4"-2.36"	>58	<1%	>5	≥12000	M+C
ZQCr12	0.4"-2.36"	>58	<1%	>3.5	≥12000	M+C
ZQCr8	0.4"-2.36"	>58	<1%	>3	≥12000	M+C

Material		Chemical Composition (%)											
Gr.	С	Si	Mn	Cr	Мо	Cu	Ni	Р	S				
ZQCr26	2.0-3.3	1.2max	0.3-1.5	>23.0-30.0	0-3.0	0-1.2	0-1.5	≤0.10	≤0.06				
ZQCr20	2.0-3.3	1.2max	0.3-1.5	>18.0-23.0	0-3.0	0-1.2	0-1.5	≤0.10	≤0.06				
ZQCr15	2.0-3.3	1.2max	0.3-1.5	>14.0-18.0	0-3.0	0-1.2	0-1.5	≤0.10	≤0.06				
ZQCr12	2.0-3.3	1.2max	0.3-1.5	>10.0-14.0	0-3.0	0-1.2	0-1.5	≤0.10	≤0.06				
ZQCr8	2.1-3.3	2.2max	0.3-1.5	7.0-10.0	0-1.0	0-0.8	-	≤0.10	≤0.06				

CAST GRINDING CYLPEBS - Medium & Low Chromium

• Diameter(mm): 8-60mm

Hardness(HRC): >58
Breakage rate: <1%

• Drop Test(times): ≥12000

Customized available

MOQ: 25 tons / 20ft container









We need SIZE, MATERIAL, Chemical Composition, or other requirements to provide an accurate quotation.

We provide a variety of materials such as high chromium, medium chromium, and low chromium, and they are numbered in the parameters below. You can directly select or send us your product requirements, and we will give an accurate quotation based on the product requirements.

Dimension & Tolerance

0.32"x 0.39	0.39"x0.47"	0.47"x0.55"	0.55"x0.63"	0.63"x0.71"	0.71"x0.79"	0.79"x0.98"	Diameter: ±0.04"
0.98" x1.18	1.18"x1.38"	1.38"x1.57"	1.57"x1.77"	1.77"x1.97"	1.97"x2.17"	2.17"x2.36"	Length: 0.08"

Technical Features

Material Gr.	Diameter(mm)	Hardness(HRC)	Breakage rate	Impact value(J/cm²)	Drop Test (times)	Micro structure
ZQCr5	0.4"-2.36"	>47	<1%	>2	≥10000	M+C
ZQCr2	0.4"-2.36"	>45	<1%	>1.5	≥8000	P+C

Material	Chemical Composition (%)										
Gr.	С	Si	Mn	Cr	Мо	Cu	Ni	Р	S		
ZQCr5	2.1-3.3	1.5max	0.3-1.5	4.0-6.0	0-1.0	0-0.8	-	≤0.10	≤0.10		
ZQCr2	2.1-3.6	1.5max	0.3-1.5	1.0-3.0	0-1.0	0-0.8	-	≤0.10	≤0.10		

Hot Rolling Steel Cylpebs

• Diameter(mm): 20-60mm, customize diameter

Breakage rate: <1%Customized available

• MOQ: 25 tons / 20ft container









Dimension & Tolerance

0.80"x1.18"	0.98"x1.38"	1.18"x1.57"	1.38"x1.77"	1.57"x1.97"	1.77"x2.17"	1.97"x2.36"	2.17"x2.56"	2.36"x2.76"	inch
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Technical Features

Material GR.	Breakage rate	Hardness(HRC)	Impact value(J/cm2)	Drop Times	Micro structure
45#	<1%	≥45	≥12	≥8000	M+C
60Mn	<1%	≥55	≥12	≥12000	M+C
65Mn	<1%	≥58	≥12	≥12000	M+C
B-2	<1%	≥60	≥12	≥15000	M+C

Brand	C (%)	Si (%)	Mn (%)	Cr (%)	Cu (%)	Mo (%)	P (%)	S (%)	Ni(%)
45#	0.42-0.50	0.17-0.37	0.5-0.80	0-0.25	0-0.25	0-0.30	0-0.035	0-0.035	0-0.30
60Mn	0.57-0.65	0.17-0.37	0.70-1.0	0-0.25	0-0.25	0-0.30	0-0.035	0-0.035	0-0.30
65Mn	0.62-0.70	0.17-0.37	0.90-1.0	0-0.25	0-0.25	0-0.30	0-0.035	0-0.035	0-0.30
B-2	0.70-0.80	0.17-0.37	0.70-0.80	0.50-0.60	0-0.25	0-0.30	0-0.035	0-0.035	0-0.30

STEEL GRINDING ROD



We need SIZE, MATERIAL, Chemical Composition, or other requirements to provide an accurate quotation.

We provide a variety of materials and they are numbered in the parameters below. You can directly select or send us your product requirements, and we will give an accurate quotation based on the product requirements.

Dimension & Tolerance

Diameter(inch)	Length(inch)	Diameter tolerance(inch)	Length tolerance(mm)
2"-5.9"	6' 1/2 - 20'	-0.06" - 0.08"	-0.8" - 0

Technical Features

Impact value(J/cm2)	Hardness (HRC)	Breakage rate	Drop times(times)	Straightness
5-7	45-55	<1%	≥10	2/1000

Material Gr.	C (%)	Si (%)	Mn (%)	Cr (%)	Cu (%)	Mo (%)	P (%)	S (%)	Ni(%)
45#	0.42-0.50	0.17-0.37	0.5-0.80	0-0.25	0-0.25	0-0.30	0-0.035	0-0.035	0-0.30
60Mn	0.57-0.65	0.17-0.37	0.70-1.0	0-0.25	0-0.25	0-0.30	0-0.035	0-0.035	0-0.30
65Mn	0.62-0.70	0.17-0.37	0.90-1.0	0-0.25	0-0.25	0-0.30	0-0.035	0-0.035	0-0.30
40Cr	0.37-0.45	0.17-0.37	0.50-0.8	0.80-1.1	0-0.25	0-0.30	0-0.035	0-0.035	0-0.30
42CrMo	0.38-0.45	0.17-0.37	0.50-0.80	0.90-1.2	0-0.03	0.15-0.25	0-0.035	0-0.035	0-0.30
B-2	0.70-0.80	0.17-0.37	0.70-0.80	0.50-0.60	0-0.25	0-0.30	0-0.035	0-0.035	0-0.30

MILL LINER









Material Name	Application	Life Span	Hardness	Impact Toughness
High durability High Chromium Cast Iron	Liners, end liners, and vertical liners for mills Φ≤16.4'	≥7Years	HRC≥60	8-10J/cm²
High-Cr Cast Iron I	Liners, end liners, and vertical liners for mills Φ≤16.4'	≥6Years	HRC≥60	8-10J/cm²
High-Cr Cast Iron II	Liner and end liner of mill Φ≤13.8'	≥5Years	HRC≥58	8-10J/cm²
High-Cr Cast Steel	Liner and end liner of mill Φ≤13.8'	≥4Years	HRC≥55	8-10J/cm²
Cr-Mo- Ni Alloy Steel	Shell liner, head liner, diaphragm, grid plate for mill Φ≤16.4'	≥3Years	HRC≥52	8-10J/cm²
Medium-carbon multi-component Alloy Steel	Shell liner, head liner, diaphragm, grid plate for mill Ф≤16.4'	≥2Years	HRC≥50	8-10J/cm²
Medium-Cr Alloy Steel	Shell liner, head liner, diaphragm, grid plate for mill Φ≤16.4'	≥1.5Years	HRC≥48	8-10J/cm²
Low Alloy Steel	Shell liner, head liner, grid plate for mine wet mill	≥1 Years	HRC≥45	8-10J/cm²
Low Carbon High Alloy Steel	Blind plate of drying chamber for large-sized raw mill	≥3Years	HRC≥46	8-10J/cm²
High-Mn Steel(Mn13)	Shell liner,head liner, grid plate for mine wet mill	≥6month	HRC≥200	8-10J/cm²
Alloyed High-Mn Steel	Impact plate, grid plate, jaw plate of all kinds of crushers	≥1 Years	HRC≥220	8-10J/cm²

According to the application conditions of wear-resistant parts and the user's requirements for service life, we provide material optimization to achieve low income and high returns.

CRUSHER HAMMER











Material Name	Application	Hardness	Impact Toughness
(Cr22Mo2NiCuWV) Super high -toughness high-Cr cast iron	Clinker crusher hammer,Blow bar	HRC≥60	7-10J/cm²
Super high- toughness high -Cr cast iron and Co-based carbide alloy	Built-up hammer of crusher	HRC≥60 HRA≥88	7-10J/cm²
(Mn13Cr3) Alloyed high- Mn steel	Large- scale crusher hammer	Hb≥220	≥120J/cm²
(mn17cr3) Super High-Mn Steel	Large- scale crusher hammer	Hb≥240	≥120J/cm²
Bimetal composite casting	Large- scale crusher hammer	head HRC= 60	handle ≥50J/cm²