

China Shandong Huamin Steel Ball Joint-Stock Co.,Ltd.

> Huamin Steel Ball



## **Enterprise Brief Introduction**

- ★ The company was established in 1986, had set up Joint-Venture company with Korea Hyundai Co., Ltd.for 10 years since
- ★ From the year 1994 of getting the licence for export and import, our products had been exported to more than 40 countries.
  ★ Main products: forged steel grinding ball, grinding steel rod, various high chrome cast iron ball, cast cylpebs, patented rotary roll forged steel balls production equipment, full-automatic grinding steel rod production equipment.

  \* Our company owns 15 invention patents, 11 utility model patents.

  \* Become the professional manufacturer and exporter in grinding ball of new material, new technology, new equipment.

  \* Huamin trademark gets provincial famous trademark, 30 countries trademark right protection in Madrid Organization.

- ★ Our company gets High and New Technology Enterprise, Enterprise Technical Center, State level defends the contract heavy credit enterprise, is awarded the first place in "comprehensive strength in China's forging steel ball industry" in the industry synthetical comparison and appraisement held by Confederation of Chinese Metalforming Industry.
- ★ Becoming one of the drafting units of national standard of "forged balls for electric power and industrial standard of grinding
- ★ The first company to make rotary roll forged steel ball automatic production equipment and fully automatic grinding steel rod

- ★ Products quality inspection and test trustworthy company certified by SGS internationally.
   ★ The first company to establish the R&D center through the cooperation of Sino-Australia Mining And Grinding Balls Center.
   ★ The company which has passed the ISO9001 international quality system certification, the ISO14001 environmental system certification and clean production certification, the 18001 Occupational health and safety management system
- ★ The membership company of CCPIT, China Metalforming Confenderation, China Minning Association.
   ★ The company could make a variety of wear resistant material series products 300,000 tons annual scale.



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## Forged Steel Ball





Rotary Roll Forged Process



Isothermy Process





### **Huamin Series New Material** Forged Grinding Steel Ball

production capacity of various steel the United States, Chile, South Africa

high hardness and ranging from  $\Phi$ 



New material New technology New product New standard



## Cast Iron Ball







Grinding Steel Ball

Bag shipment

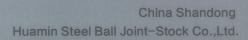
## ALLOYED CASTING IRON BALLS

MESTIAMOAET NOT ENTIRE									
NAME	BRAND	HRC SURFAC	ENDUDANCE IMPACT TEST (TIMIES)						
		QUENCHED	UNQUENCHED	ENDURANCE IMPACT TEST (TIMIES)					
HIGH CHROME CASING IRON BALL	ZQCr26	≥58	≥49	≥8000					
HIGH CHROME CASING IRON BALL	ZQCr20	≥58	≥49	≥8000					
HIGH CHROME CASING IRON BALL	ZQCr15	≥58	≥49	≥8000					
HIGH CHROME CASING IRON BALL	ZQCr12	≥58	≥49	≥8000					
MIDDLE CHROME CASING IRON BALL	ZQCr8	-	≥48	≥8000					
LOW CHROME CASING IRON BALL	ZQCr2	- 1	≥45	≥8000					
BAINITE DUCTILE CASING IRON BALL	ZQCi3	≥50		≥8000					

#### SIZES OF CASTING BALLS

ITEMS	SIZES														
TILIVIS	Ф10	Ф15	Ф20	Ф25	Ф30	Ф40	Ф50	Ф60	Ф70	Ф80	Ф90	Ф100	Ф110	Ф120	Ф130
TOLERANCE	+1.0			+2.0			+2.5			+3.0					
	-1.0			-1.0			-1.0			-1.5					
DIFFERENCE BETWEEN MAX DIAM AND MIN DIAM	≤ 1.0		≤ 2.0			≤ 3.0			≤ 4.0						





## Steel Grinding Rod







Steel grinding rod

Loading of grinding rods

Unloading view after using in rod mill

# One of the largest producer and exporter for steel grinding rods in China.

Diameter(⊕ mm)	30-50	60-70	75-90	100-120	130
Length(m)	2.95	3.5	4.3	Agreement	Agreement

We can make the grinding rod according to the effective length of the rod mill customers owned



## Proprietary Equipment



Rotary rolling grinding ball automatic production line, originated by Huamin. Equipement Patent Number:ZL200610043960.1



Intelligent rolling forged steel ball complete equipment



SAG mill steel ball automatic equipment



Steel grinding rod patented automated production equipment Equipment Patent Number:200810238243.3

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## **Inspection And Testing**







The inner quality of sampling test

Chemical elements analysis

Hardness Test

#### Grinding Ball Inspection Process And Equipment













Impact value testing machine Hardness testing equipment





Wire Cutting Machine



Dropping test machine