



Xuzhou H&G Wear-resistant Material Co., Ltd.

Add: Liu Bang Industrial Park, Peixian, Xuzhou, Jiangsu, China Web: www.xzhuagang.com
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COMPANY PROFILE

1. Who we are

Xuzhou H&G Wear-resistant Material Co., Ltd. was established in 1989, located in Xuzhou, Jiangsu Province. Through more than 25 years' striving, we have become one of the leading enterprises in the industry. Our company is devoted to researching, developing, producing and selling grinding media such as grinding balls, grinding cylpebs, and liners plate for ball mill which are widely used in cement, mining and chemical industries, and power plants, etc. Our manufacturing base covers 30 mu, with the standard workshop area of 12,000sqm, 6 advanced casting manufacturing lines, and sophisticated testing equipment guarantee a stable and resistant product quality. Our annual productivity is 30,000 metric tons.



With the development of our business, we started our Shanghai branch in 2012, named D-Win Metal Material (Shanghai) Co., Ltd.. We are intending to make the most of the technical advantage of our factory and that of the trade service in Shanghai to provide the best service for our customers at home and abroad.

Insisting on the spirit of "Quality Determines Destiny, Positioning Determines Development", our company is establishing the largest professional producing and exporting base in Jiangsu Province. Welcome to us for further cooperation!

2. Company asset

With registered fund with a registered capital of 12 million Yuan, an equivalent of US Dollars 2 million, our group covers an area of 12 thousand square meters and owns over 15 sets of all kinds of production equipment.

3. Company staff

There are about 88 staffs, including 5 experts at all levels in H&G Group and among which 1 have win the senior and intermediate degree.

4. Company history

In 1989, Liu Bang Casting Factory, as a individual, was established. We mainly used coke smelting reduction technics, and the products were casting grinding balls and bars.

In 1996, Peixian County Tongda Casting Co., Ltd. was established. We became a general taxpayer. One medium frequency furnace production line was introduced into our production, together with the annealing process technical.

In 2002, our factory was moved to Liu Bang Industrial Park, Peixian County, Jiangsu Province. The overall property had a qualitative improvement

In 2008, renamed as Xuzhou H&G Wear Resistant Co., Ltd.. 12,000 square meters standard workshop, 3 medium frequency furnace production lines, 2 furnace annealing equipment, and 2 oil-immersed quenching harden equipment were put into production. Also, better technology and equipment was used for IQC and OQC.

In 2012, D-win Metal Material (Shanghai) Co., Ltd. was established in Shanghai, a wholly owned sales subsidiary, intending to develop international business.

In 2013, pass the ISO9001:2008(No: CI/131456Q). 800 square meters office building was put into use in our factory, making great progress in both work environment and employees.

In 2014, pass the SGS Supplier Assessment.



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5. Work performance

Since the establishment of our company, we carry out the work idea of “there is no shortcut to success. Only by hardheaded working”, provide high-quality products and service, and grow together with our customers is always our goal to development. In the year of 2015, our sales revenue reached USD10million, which increased by 20% compared with the year 2014.

In order to thanks for the support of our new and old customers and dealers and satisfy the new requirements of our society, our staffs will work hard to develop more wear-resistant products for our customers. Our staffs will warmly welcome friends at home and abroad.

6. Sales Records in Last 3 Years

Name of Buyer	Description of Products	Address	Country
Oyu Tolgoi LLC in Outer Mongolia--Gold & Copper	High Chrome Alloyed Ball Mill Liner Plates	Monnis Tower, Chinggis Avenue 15, Sukhbaatar District, 14240, Ulaanbaatar	Mongolia
Carmen Copper Corp.	High Chrome Alloyed Ball Mill Liner Plates	Don Andres Soriano, Toledo , Cebu	Philippine
PT. Win Metals -Cement	Medium Carbon Medium Chrome & Mo Ball Mill Liner Plate	Menara Rajawali 23rd floor, Jl. Mega Kuningan Lot 5.1	Indonesia
SMCO Hituru Copper Mine	Medium Carbon Medium Chrome & Mo Ball Mill Liner Plate	Likasi town Katanga Province, Congo.	Congo
Holcim Cement Group	High Manganese Steel Ball Mill Liner Plate	Jln. TB Simatupang Kav. 22–26 Jakarta	Indonesia
Saudi Cement Company	High Manganese Steel Ball Mill Liner Plate	Hofuf Plant, Hofuf, Dammam, Saudi Arabia	Saudi Arabia
Shanshui Cement Group	Medium Carbon Medium Chrome & Mo Ball Mill Liner Plate	Shanshui industry zone, Jinan city, Shandong Province	China
Wanhua New Cement Material Co., Ltd	Medium Carbon Medium Chrome & Mo Ball Mill Liner Plate	Daxie industry zone, Ningbo city, Jiangsu Province	China
Shandong Fangtai circulation enterprises Co., Ltd	High Chrome Alloyed Ball Mill Liner Plates	Yinhai industry zone, Laizhou City, Shandong Province	China
Henan Tongli Cement Co., Ltd	High Manganese Steel Ball Mill Liner Plate	Chunlei road, Hebi city, Henan Province	China



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7. Why choosing us

- A. Over 25 years Professional casting grinding media manufacturing experience; 30,000MT annual production capacity guarantee our clients short lead time.



- B. Advanced heat treatment technique and perfect quality control production and system guarantee a stable high quality for H&G grinding media.



- C. Pass the ISO9001:2008 Certificate & SGS Supplier Assessment, and skilled sales & service team in Shanghai branch can provide you timely good service.





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8. Main products---Ball Mill Liner Plates

A. Chrome Alloyed

High Chrome Alloyed Ball Mill Liner Plates



Products Description

High Chrome alloyed casting iron in general refers to the alloy white iron with the chromium content at 8%~26%, the carbon content at 2.0%~3.6%. Its distinctive features is that the M7C3 type eutectic carbide micro hardness is HV1300~1800. The eutectic carbide is distributed on the base, martensite(the most hard metal matrix organization), in discontinuous network and isolation, which reduces the fragmentation of the matrix effect. As a result, the high chromium ball mill liner has high strength, strong toughness and good wear resistance performance, which represents the highest level of metal wear resistant materials.

Processing Technique

Intermediate frequency furnace smelting high-quality steel scrap and chromium alloy etc.

Constant temperature casting process ensuring the quality, no solid nonmetallic impurity, no pore etc.

Oil-immersed quench harden treatment enhance the hardness, annealing process changing the internal organizational structure, lowering the breakage, and improving the performance.

After the Pre- furnace test, semi-finished products and finished products inspection was done by advanced spectrometer and durometer imported from Germany.

Chemical Elements

Name	Chemical Elements (%)							
	C	Si	Mn	Cr	Mo	Cu	P	S
High Cr Liner	2.0-3.3	0-1.2	≤2.0	8-26	≤3.0	≤1.2	≤0.1	≤0.06

Physical Property & Microstructure

Name	HRC	Ak(J/cm ²)	Microstructure
High Cr Liner	≥58	≥3.5	M+C+A
	M-Martensite	C- Carbide	A-Austenite

Size

Size	Hole Dia.(mm)		Liner Length(mm)	
	≤40	≥40	≤250	≥250
Tolerance	+2 0	+3 0	+2	+3

Note: Any need to adjust the chemical elements, or add alloying element, it would be agreed with contract.



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Medium Chrome Alloyed Ball Mill Liner Plates



Products Description

Medium Chrome alloyed casting iron in general refers to the alloy white iron with the chromium content at 4%~6%, the carbon content at 2.0%~3.2%. Its distinctive features is that the M7C3 type eutectic carbide micro hardness is HV1300~1800. The eutectic carbide is distributed on the base, martensite(the most hard metal matrix organization), in discontinuous network and isolation, which reduces the fragmentation of the matrix effect. As a result, the middle chromium ball mill liner has high strength, strong toughness and good wear resistance performance, which represents the higher level of metal wear resistant materials.

Processing Technique

Intermediate frequency furnace smelting high-quality steel scrap and chromium alloy etc.

Constant temperature casting process ensuring the quality, no solid nonmetallic impurity, no pore etc.

Annealing process changing the internal organizational structure, lowering the breakage, and improving the performance.

After the Pre-furnace test, semi-finished products and finished products inspection was done by advanced spectrometer and durometer imported from Germany.

Chemical Elements

Name	Chemical Elements (%)							
	C	Si	Mn	Cr	Mo	Cu	P	S
Medium Cr Liner	2.0-3.3	0-1.2	≤2.0	4-6	≤3.0	≤1.2	≤0.1	≤0.06

Physical Property & Microstructure

Name	HRC	Ak(J/cm ²)	Microstructure
Medium Cr Liner	≥48	≥10	M+C
M-Martensite		C- Carbide	

Size

Size	Hole Dia.(mm)		Liner Length(mm)	
	≤40	≥40	≤250	≥250
Tolerance	+2 0	+3 0	+2	+3

Note: Any need to adjust the chemical elements, or add alloying element, it would be agreed with contract.



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Low Chrome Alloyed Ball Mill Liner Plate



Products Description

Low Chrome alloyed casting iron in general refers to the alloy white iron with the chromium content at 1%~3%, the carbon content at 2.1%~3.6%. Its distinctive features is that the M7C3 type eutectic carbide micro hardness is HV1300~1800. The eutectic carbide is distributed on the base, martensite(the most hard metal matrix organization), in discontinuous network and isolation, which reduces the fragmentation of the matrix effect. As a result, the low chromium ball mill liner has high strength, strong toughness and good wear resistance performance, which represents the higher level of metal wear resistant materials.

Processing Technique

Intermediate frequency furnace smelting high-quality steel scrap and Chromium alloy etc.

Constant temperature casting process ensuring the quality, no solid nonmetallic impurity, no pore etc.

Annealing process changing the internal organizational structure, lowering the breakage, and improving the performance.

After the Pre-furnace test, semi-finished products and finished products inspection was done by advanced spectrometer and durometer imported from Shimadzu.

Chemical Elements

Name	Chemical Elements (%)							
	C	Si	Mn	Cr	Mo	Cu	P	S
Low Cr Liner	2.1-3.6	0-1.5	≤2.0	1-3	0-1	≤1.2	≤0.1	≤0.1

Physical Property & Microstructure

Name	HRC	Ak(J/cm ²)	Microstructure
Low Cr Liner	≥45	≥15	M+C+P
M-Martensite C- Carbide P-Pearlite			

Size

Size	Hole Dia.(mm)		Liner Length(mm)	
	≤40	≥40	≤250	≥250
Tolerance	+2 0	+3 0	+2	+3

Note: Any need to adjust the chemical elements, or add alloying element, it would be agreed with contract.



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B. Chrome & Molybdenum Alloyed

Medium Carbon Medium Chrome & Mo Ball Mill Liner Plate



Products Description

Medium carbon medium Chrome & Mo ball mill liner plate in general refers to a kind of casting steel with the chromium content at 4%~6%, the carbon content at 0.4%~0.6%. Its distinctive feature is to adopt multivariate alloy design. It increases carbide content in the medium carbon alloyed steel, through increasing the Cr & Mo content, the strong carbide forming elements, so as to improve its heat-resisting, wear-resisting performance. As a result, its high strength, strong toughness and good wear resistance properties represent the relatively high level of metal wear resistant materials.

Processing Technique

Intermediate frequency furnace smelting high-quality steel scrap and Chrome & Mo alloy etc.

Constant temperature casting process ensuring the quality, no solid nonmetallic impurity, no pore etc.

Automatic temperature tempering heat treatment process changing the internal organizational structure, further improving the mechanical properties.

After the Pre- furnace test, semi-finished products and finished products inspection was done by advanced spectrometer and durometer imported from Germany.

Chemical Elements

Name	Chemical Elements (%)							
	C	Si	Mn	Cr	Mo	Cu	P	S
Medium Cr & Mo Liner ZG45Cr5MoRe	0.4-0.6	≤1.2	1-1.5	4-6	0.2-1	0.5-0.8	0.058	0.052

Physical Property & Microstructure

Name	HRC	Ak(J/cm ²)	Microstructure
Medium Cr & Mo Liner ZG45Cr5MoRe	≥48	≥20	M+C
M-Martensite		C- Carbide	

Size

Size	Hole Dia.(mm)		Liner Length(mm)	
	≤40	≥40	≤250	≥250
Tolerance	+2 0	+3 0	+2	+3

Note: Any need to adjust the chemical elements, or add alloying element, it would be agreed with contract.



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Medium Carbon Low Chrome & Mo Ball Mill Liner Plate



Products Description

Medium carbon low Chrome & Mo ball mill liner plate in general refers to a kind of casting steel with the chromium content at 1.2%~2.5%, the carbon content at 0.3%~0.6%. Its distinctive features is to adopt multivariate alloy design to increase the carbide content in the alloyed steel, so as to improve its heat-resisting, wear-resisting performance. As a result, Medium carbon low Chrome & Mo ball mill liner plate has high strength, strong toughness and good wear resistance properties, which represents a relatively high level of metal wear resistant materials.

Processing Technique

Intermediate frequency furnace smelting high-quality steel scrap and Chrome & Mo alloy etc.

Constant temperature casting process ensuring the quality, no solid nonmetallic impurity, no pore etc.

Automatic temperature tempering heat treatment process changing the internal organizational structure, further improving the mechanical properties.

After the Pre- furnace test, semi-finished products and finished products inspection was done by advanced spectrometer and durometer imported from Germany.

Chemical Elements

Name	Chemical Elements (%)							
	C	Si	Mn	Cr	Mo	Ni	P	S
Low Chrome & Mo Liner ZG40CrMoRe	0.3-0.6	≤1.2	0.5-1.0	1.2-2.5	0.2-0.6	0.1-0.4	0.058	0.052

Physical Property & Microstructure

Name	HRC	Ak(J/cm ²)	Microstructure
Low Chrome & Mo Liner ZG40CrMoRe	≥40	≥30	M+C
M- Martensite		C- Carbide	

Size

Size	Hole Dia.(mm)		Liner Length(mm)	
	≤40	≥40	≤250	≥250
Tolerance	+2 0	+3 0	+2	+3

Note: Any need to adjust the chemical elements, or add alloying element, it would be agreed with contract.



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C. Manganese Steel Ball Mill Liner Plate

High Manganese Steel Ball Mill Liner Plate



Products Description

High Mn steel ball mill liner plate in general refers to a kind of casting steel with the Mn content at 10%~15%, the carbon content at 0.9%~1.5%, mostly higher than 1.0%. Under low impact load, can achieve HB300~400, high impact load, can achieve HB500~800. Different impact load, the surface hardening layer depth can be up to 10~20 mm. High hardness of hardening layer can resist the wear of grinding media. Under the condition of strong impact abrasive wear, high manganese steel has excellent anti-wear performance, so it is widely used in mining, building materials, coal industries as wear-resistant parts. But, under the condition of low

impact conditions, due to the strain hardening effect is not obvious, the characteristics of high manganese steel can't display material.

Processing Technique

Intermediate frequency furnace smelting high-quality steel scrap and Chrome & Mo alloy etc.

Constant temperature casting process ensuring the quality, no solid nonmetallic impurity, no pore etc.

Automatic temperature tempering heat treatment process changing the internal organizational structure, further improving the mechanical properties.

After the Pre- furnace test, semi-finished products and finished products inspection was done by advanced spectrometer and durometer imported from Germany.

Chemical Elements

Name	Chemical Elements (%)							
	C	Si	Mn	Cr	Mo	Ni	P	S
High Mn Liner ZGMN13	0.9-1.5	0.3-1.0	11-14	0-2.5	0-0.5	≤0.05	≤0.1	≤0.05

Physical Property & Microstructure

Name	HB	Ak(J/cm ²)	Microstructure
High Mn Liner ZGMN13	≤240	≥100	M+C+P
M- Martensite C- Carbide P-Pearlite			

Size

Size	Hole Dia.(mm)		Liner Length(mm)	
	≤40	≥40	≤250	≥250
Tolerance	+2 0	+3 0	+2	+3

Note: Any need to adjust the chemical elements, or add alloying element, it would be agreed with contract.