

## High manganese casting parts

**Common Alias:** manganese steel castings, high manganese steel castings, high manganese steel castings, manganese-chromium alloy castings

**Main material:** high manganese steel (Mn13, Mn18, etc.), manganese-chromium alloy (Mn13Cr2, Mn18Cr2 etc.)

**Casting: foundry casting:** foundry casting V method of casting lost foam casting

**Applicable materials:** quartz, gold ore, iron ore, cement clinker, copper ore, pyrrhotite, construction waste, cement clinker, glass, etc.

**Applications:** cement, silicate products, new building materials, refractory materials, fertilizer, ferrous and non-ferrous metals and glass ceramics, etc.

### product description:

High manganese steel (high manganese steel) refers to the amount of more than 10% manganese alloy steel. 10% to 15% of such manganese steel, high carbon content, typically 0.90% to 1.50%, up to the amount of such high-manganese steel, wear-resistant high manganese steel is particularly suitable for high impact abrasive wear and abrasive stress crushed wear conditions, commonly used in the manufacture of ball mill liner, hammer crusher hammer, jaw jaw crusher, cone crusher rolling acetabular wall / broken wall of the roll skin, sieve mesh, chain plate chain dredgers excavator bucket teeth, bucket wall, railway turnouts, track tractors and tanks board impact, etc., wear-resistant castings.

#### High manganese steel jaw

Jaw (also known as dental plate) is the main wearing parts of jaw crusher, according to the different types can be divided into many types of jaw crusher: Material: Mn13, Mn13Cr2, Mn18, Mn18Cr2 (ultra-high manganese ) or according to working conditions special ingredients, Hubei JYS jaw crusher jaw work fine, precise ingredients, heat treatment in place, the new micro-alloy jaw wear life than similar products more than 50%.

#### High manganese steel concave/ mantle

concave/ mantle is the main component on the cone crusher, according to analysis of the actual working conditions, the large thick JYS use ZGMn18, ZGMn18Cr2 super high manganese steel, the central portion able to fully austenitic work hardening ability, increased service time.

#### High manganese steel hammer

High manganese steel hammer is austenitic structure, under strong, large enough impact extrusion conditions, quickly produce 10 ~ 20mm hardened layer (martensitic structure), high hardness of hardened layer can impact abrasion resistance when after the hardened layer is worn away, exposing new and austenite is cured, but it has not been hardened portion remains austenitic good toughness, suitable for crushing cobblestone, coal, limestone and other materials crushing, as many cement, sand and gravel companies hammerhead choice.

#### High manganese steel blow bar

A modified high manganese steel casting, reasonable ratio of ingredients, plate hammer safer and more reliable, than the ordinary high manganese steel wear resistance increased 1.5-fold, not only reduces downtime, and improve equipment operation rate, increased fragmentation machine production, reduce material costs.

#### High manganese steel ball mill liner

JYS using the latest patented technology, based on original material Mn13 added chromium, vanadium, boron, molybdenum and other rare and precious metals and special modification technology, using new materials to produce high manganese alloy liner, significantly improved product quality. 13 manganese than the average service life more than doubled, greatly reducing the user cost of production.

#### High manganese steel roller skin

Wear leather roll on roll crusher working efficiency greatly, only roll skin in good condition, the crusher in order to obtain a higher production capacity. JYS according to different working conditions, developed different materials crusher roll skin, there are Mn65, Mn13, manganese-chromium alloy and other materials roll skin, customers can choose according to their needs.

Hubei JYS ia a new wear-resistant materials Co., Ltd. Which is a professional high manganese steel castings factory, in order to improve the performance of high manganese steel were many alloying, micro alloying, research and other aspects of the treatment of carbon manganese content adjustment and precipitation hardening, and widely used in the production practice, and praised by customers!

**PERFORMANCE CHARACTERISTICS:**



**BETTER QUALITY**

At high energy impact working conditions, high manganese steel and ultra-high manganese steel casting has excellent abrasion resistance



**COST-EFFECTIVE**

In a strong impact, under the extrusion conditions, the surface hardening phenomenon occurs rapidly, so that, while maintaining good toughness and ductility with good wear resistance. This is better than the other materials



**LONGER LIFE**

A typical Mn17 is to increase the amount of manganese Mn13 on the basis of improved hardening and wear resistance.



**WIDE RANGE OF APPLICATION**

Used in mining, cement, building materials, thermal power and other mechanical equipment, the production of wear parts

Technical Parameters:

item	(% )Chemical composition (mass fraction)					
	C	Mn	Si	S	P	Cr
				≤		
ZGMn13-1	1.10 ~ 1.50	11.00 ~ 14.00	0.30 ~ 0.80	0.04	0.09	
ZGMn13-2	1.00 ~ 1.40	11.00 ~ 14.00	0.30 ~ 0.80	0.04	0.09	
ZGMn13-3	0.90 ~ 1.30	11.00 ~ 14.00	0.30 ~ 0.80	0.04	0.08	
ZGMn13-4	0.90 ~ 1.20	11.00 ~ 14.00	0.30 ~ 0.60	0.04	0.07	

ZGMn13-5	0.90 ~ 1.30	11.00 ~ 14.00	0.30 ~ 0.60	0.04	0.07	1.50 ~ 2.50
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Here is only some type for High manganese casting parts. As the improvement of product, the specifications are changed. If you need the further information, please contact our sales or Email to us.

**Enterprise strength:**

We have two sand casting production line, one vacuum casting production line, one Lost foam casting production line; six intermediate frequency furnaces(two 5T,two 3T,two 1T) , six heat treatment furnace (one 40T,one 20T,one 15T ,three 5T), heat treatment pool 2000m3 water, with the annual capacity of 15,000 tons.



Sand casting



Lost foam casting



Vacuum casting



Pouring

**Global cooperation:**

JYS dialogue with international, built international group. We have an independent import and export business license, long-term exchanges and cooperate with overseas countries make our products maintaining a high level, also won the comprehensive international market. it is exported to Russia, Kazakhstan, Turkey, Saudi Arabia, South Africa, Vietnam, India, the United States, Australia and other 30 countries and regions.



Indonesia



Netherlands



Australia



United States

**Special reminder:**

Hubei JYS advanced wear resistant material technology Co. Ltd is a manufacture of wear-resistant, specialized in high manganese steel, high chromium, wear-resistant alloy steel casting, provide processing business of spare parts for different factory perennially. For any type of wear-resistant castings, you just provide drawing, sample or pattern, we can produce it for you. tel :+86-0717-3286139 e-mail: [vip@jinyangshi.com](mailto:vip@jinyangshi.com)