

Qiming Machinery Jaw Crushers Wear Parts Application Guide





Jaw crusher wear parts

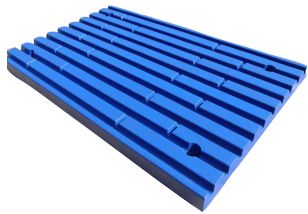

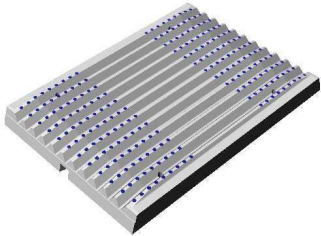
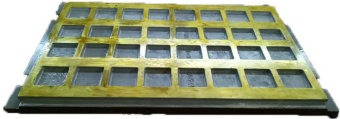
Qiming Machinery replacement crusher jaws are engineered to last longer and crush more efficiently, while reducing wear and tear on the crusher. The crusher jaws produce better quality rock more consistently than standard original equipment jaws, while reducing the need for re-screening and re-crushing. Qiming Machinery offers a full range of options for all popular jaw crushers, including various tooth designs, curves and alloys.

Increased uptime with long lasting parts

Qiming Machinery Jaw crusher wear parts provide the highest possible wear life combined with mechanical reliability and numerous mounting possibilities. Qiming Machinery jaw crusher wears are easy and economical to install and are available in one piece or two piece designs.

The solution is available for the most demanding crushing and recycling applications, stationary as well as mobile. Jaw crusher manganese wear parts are designed for hardest rock in surface and underground operations.

Qiming Machinery Jaw Crusher Wear Parts Include:

	
Manganese Jaw Crusher Liners	Jaw Crusher Protect Liner
	
TIC Insert Cone Crusher Liners	Micro-alloying Jaw Crusher Liner



Manganese Jaw Crusher Wear Parts

Qiming Machinery has had casted high manganese steel jaw crusher wear parts for our customer. This high manganese grade is an excellent work hardening, abrasion resistant steel. This steel is a non magnetic austenitic type, supplied in full plates or as profiled pieces by plasma cutting. Suitable for wear applications where high impact/gouging abrasion leads to a work hardening effect.

High manganese steel jaw plates becomes increasingly hard when the surfaces of components are subject to repeated impact or abrasion. Its toughness, derived from high tensile strength and ductility, enables shock loads to be absorbed safely. Lack of lubrication or the intrusion of grit or sand particles does not seriously impair the wearing surfaces of components in contact. These characteristics combine to make high manganese steel plate an ideal steel for use as wearing plates in those situations where abrasion, impact, or lubrication difficulties are encountered. The steel has the unique property in service of rapidly developing a work hardened surface while retaining its tough interior.

Qiming Machinery supplies following grade manganese jaw crusher wear parts:

- Mn14
- Mn18
- Mn22

Manganese Content	Application	Properties
Mn14	Hardest Material Mildly Abrasive Material	Highest Impact Resistance Low Abrasion Resistance
Mn18	Harder Material Medium Abrasive Material	High Impact Resistance Better Abrasion Resistance
Mn22	Hard Material Most Abrasive Material	Less Impact Resistance Better Abrasion Resistance

Feature Pictures





TiC Insert Cone Crusher Wear Parts

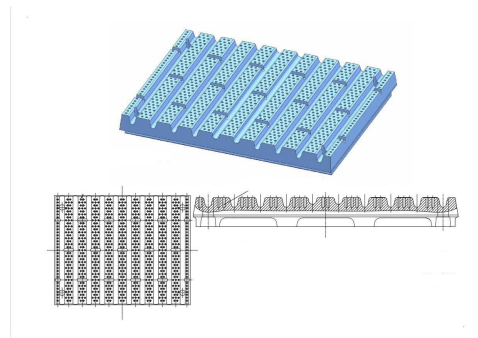
Qiming Machinery wear parts with Titanium Carbide (TiC) inserts deliver outstanding durability. Jaw crusher wear parts are offered in TiC versions.

Qiming Machinery titanium carbide (TiC) jaw crusher wear parts are designed to increase the wear life of wear parts in abrasive environments. Titanium carbide columns are cast within proprietary alloys for added strength and durability.

Qiming Machinery proprietary alloys and innovative designs result in long wear life compared to other OEM replacements. Titanium Carbide (TiC) options are available for even longer wear life. Custom designed to suit your needs, MGS Casting Jaw Plates and Cheek Plates are engineered to suit the specific needs of your application.

Design

- Mn14, Mn18 or Mn22 as the liner body
- 20mm, 40mm, 60mm or 80mm titanium carbide bars
- Based on crush area to insert
- Special casting process
- Special heat treatment
- Manganese body and TiC bars fusion into part



Advantages

- Increased Wear Life – Qiming's unique TiC insert jaw plates design features a strengthened high-wear zone for maximum usable wear life and reduced breakage.
- Strengthens as It Works – Jaw plates body is cast in durable manganese steel (Mn18Cr2) that gets harder the longer you work it.
- Consistent Wear – More consistent wear profile for uniform product output and increased efficiency.
- Titanium Carbides – TiC inserts currently available are 20mm, 40mm, 60mm, and 80mm depths.
- Fewer Change-Outs – Greater durability and longer wear life means fewer change outs, more up-time, and lower maintenance costs

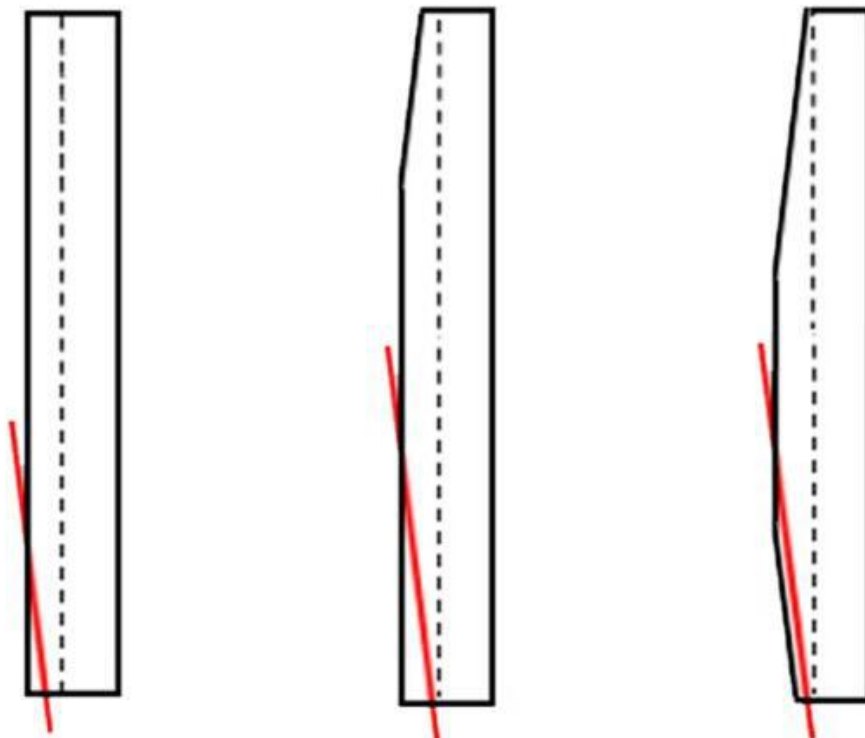


When To Rotate Jaw Crusher Plates

The ideal situation would be when even wear occurs throughout the jaw plate area, using all the manganese teeth, eliminating the need to execute the “turn”, or change production.

This is impossible, however, because there are areas where we cannot avoid more severe wear than in others, mainly because of the crushing movement geometry, such as in the fixed jaw plate lower tip and the central area of the swing jaw plate, so a turn should be carried out to achieve better performance and use. We recommend a double turn, in other words:

Fixed jaw plate – use until wear of about 50% occurs in the lower area and make the first turn. Make the second turn when wear from 90% to 100% occurs in this new lower area. Conclude using the remaining 50% of the life cycle of this extremity.



Swing jaw plate – the same procedure is applied to the swing jaw plate, because although the wear occurs in the central area, it rarely occurs in the exact middle of the jaw plate.



When To Change Jaw Crusher Wear Parts

Situation 1:

Jaw plates need to be changed before they are worn through, in order to prevent damage to the crusher components.

In some crushers, like the C105, the jaw plates design on the ends is different. The locking wedges on these crushers are located behind the jaw dies rather than at the top of the jaw die. The jaw dies can be allowed to wear until the thickness is 60-65 mm thick or the teeth are worn flat. On other crushers the ends of the jaw dies are much thinner. The wedge retention design where the locking wedges make contact is much thinner. This allows for the ends of the jaw die thickness to wear to 20-25 mm, or when the corrugations are worn flat. Jaw dies may need to be changed earlier than anticipated if wear profile is abnormal. On single toggle jaw crushers, the fixed jaw die may wear at a faster rate. The table on the right shows the indicative lifetime of the wear components.

Situation 2:

The second condition is changing the liner before you start to suffer significant production losses. On top adjust/screw adjust jaws this is especially true as the feed size starts to shrink pretty dramatically as soon as you get to the last 1/3 of life and as you near the end the feed size can get very small, losing as much 30% of feed size. This is less of an issue with jaws as the feed size remains constant throughout the life of the manganese.

You should have a pretty good idea when you will need to change manganese and be able to have all of the parts on hand prior to needing to change. By having an accurate belt scale, you can know to the day when your production starts to tail off to the threshold and schedule the change immediately.

What is the threshold for a liner change? We believe the maximum threshold for a liner change is as follows: Change your liners no later than a 10% decline in production.



Send Pictures & Contact Information



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