

# Qiming Machinery Gyratory Crushers Wear Parts Application Guide





# Gyratory Crusher Wear Parts

The Qiming Machinery primary gyratory crusher wear components have the most vital duty in rock dimension decrease in mine procedures as the squashing process begins with a main crusher. The greatest feasible wear life is combined with mechanical reliability through the part life process. As the production quits are very pricey for mine operations, the Qiming Machinery manganese gyratory crusher puts on are very easy and fast to set up.

Manganese steel mantle wear components are provided with different forms, surface accounts and steel qualities. Alloy steel, white iron as well as manganese steel concave wear parts are designed for hardest rock in surface area and also below ground operations.

## Longer wear life – lower cost per ton

Qiming Machinery's enhanced styles, tested alloys and also remarkable regional service supply gyratory wear parts services for the crushing sector. Qiming Machinery offers gyratory crusher wear parts, including gyratory mantle, gyratory concave, spider caps and spider arm linings. The combination of Qiming Machinery mantles and concave sections makes certain optimum manufacturing, increased wear part life as well as lowered maintenance. Mantles are readily available in a variety of designs to match certain applications. Concave sectors are designed for simple installation and replacement to decrease upkeep and downtime. There are several layout alternatives to ensure the very best performance.

Qiming Machinery gyratory crusher wear parts offer:

- Faster replacement and longer lasting wear parts increases uptime.
- Longer component life means more crusher availability.
- More efficient crushing increases throughput providing more quality products and less waste
- Special design for your gyratory crusher



# Gyratory Crusher Mantle Design

## Manganese Alloy Gyratory Crusher Mantle

Different alloys, designs and sectioned mantles can be selected to achieve the best cost per produced ton, depending on the application and the wear rate. Choosing the correct mantle is always an application-specific process. The following mantle designs are available or will be designed to meet the customer's process requirements.

The first choice of material for standard mantles is the Mn14Cr2. Because this material has good toughness and hardness. It is the safety choice for your gyratory crusher.

On the other hand, Our many manganese gyratory mantle designs range from smooth one-piece options to large, full-toothed, two-piece or three-piece solutions.



MANTLE MATERIALS	Difficult and abrasive	Difficult and non abrasive	Medium and abrasive	Medium and non abrasive	Easy and abrasive	Easy and non abrasive
Mn14Cr2	Can be used	Recommended	Can be used	Recommended	Good choice	Recommended
Mn18Cr2	Good choice		Good choice	Can be used	Recommended	Good choice
Mn22Cr2	Recommended		Recommended			

## TIC Insert Gyratory Crusher Mantle

Qiming Machinery had designed TIC insert gyratory gyratory crusher mantle for our customers. We use titanium carbide bars insert the gyratory crusher mantle wear area. The material will be crushed by TIC bars in the first, the manganese body also will be hardening at the same time, because of the high hardness of titanium carbide bars, the TIC insert gyratory crusher mantle span life can be 2-3 times than normal manganese gyratory crusher mantle.





# Gyratory Concave Segments

## Concave Segments Material Selection

Qiming Machinery's standard concave alloy is manganese, but depending on the feed characteristics a variety of other alloys can be chosen to achieve best cost per produced ton. The upper concave tiers must withstand high impact forces. The lower tiers require maximum abrasion resistance.

### Upper Intake Liners

- Manganese alloys
- Low-alloy steel, impact resistant

### Chamber Mid Liners

- High manganese alloys
- Low-alloy steel, abrasion and impact resistant Chamber

### Bottom Liners

- Low-alloy- steel, high abrasion and impact resistant
- High-chrome special, maximum abrasion resistance



## Concave Segments Size Selection

### Larger Concaves

The fewer concave segments you have to handle, the less time it takes to reline your gyratory. Qiming Machinery recognizes the value of fewer and larger concave segments, and we've manufactured double height, double width, and double height & width concaves for many satisfied customers.

The benefit to you is greater efficiency when ordering and replacing parts. In general, larger parts cost less per pound. There are also fewer seams, an important consideration since these are often the areas of most severe wear. In addition, fewer joints mean less backing material.

### Thicker Concaves

General purpose concaves with uniform thickness often wear poorly because wear is not uniform from application to application. We have found that by increasing thickness, we can often double or triple wear life. All our concaves have side grooves for spacer or keeper dowels.





# Feature Products & Contact Info

## Feature Products



## Contact Information:

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