

Wear Parts For Impact Crusher





Blow bars, Impact plate and side wear plates are the major wear parts that need to frequently replaced on the impact crusher and these account for a big part of the operation cost of crusher.

Extending the wear life of blow bars, impact plates and side plates is the most efficient way to reduce the downtime of crusher, save the expensive labor cost for replacing the wear parts and consequently save the crushing cost on per ton in long run.

As a wear parts manufacturer, Sunwill is applying the advanced MMC (Ceramic Inserts) and Bimetallic technology on the crusher parts to improve the wear performance of the parts. This has been successfully proven to be the most efficient solution to reduce the downtime of crusher so as to relieve customers from the burden of operation cost in long run.

Ceramic Inserts & Bimetallic Technology

Reduce the downtime of impact crushers

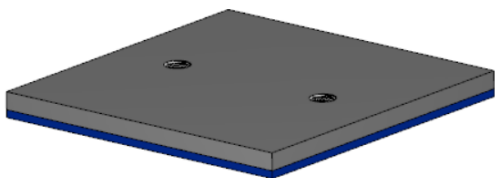


MMC Ceramic Inserts

A casting technology that embed the ceramic grits into the casting at molten state.

The embedded ceramic significantly enhance the ability of wear resistance of casting.

MMC technology is used to make the blow bars and impact plates with longer life for impact crushers.



Bimetallic

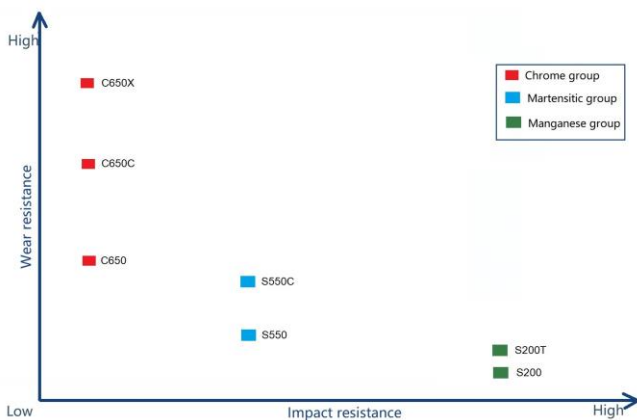
A wear technology that bond the two different types of metal materials (always chrome backed with mild steel) by welding.

It combines the good wear performance of chrome white iron and the good impact resistance of mild steel. Bimetallic is used to make the side plates with longer life for Impact crushers.

Options of Blow Bars

Sunwill offer a wide range of material options for blow bars to suit the applications from low wear to extreme abrasion.

Code	Material	Basis Hardness	Wear Resistance	Applications
S200	Manganese steel	200-250HB	Relatively low	Large feed size low-abrasiveness stones e.g. limestones.
S200T	Manganese+Tic	200-250HB	Up to 100% increased on S200	Same as above but where longer wear life required.
S550	Martensitic steel	500-550HB	Medium	Medium feed size of materials with low to medium abrasiveness, such as Limestones, Asphalt, Concretes, Building rubbles with steel rebars or a small quantity of unbreakable objects.
S550C	Martensitic +Ceramic	500-550HB	Up to 100% increased on S550	Same as above but where longer wear life required.
C650	High chrome	600-650HB	High	Small feed size of materials with medium to high abrasiveness but low strength, such as Limestones, Asphalt, Concretes, Building rubbles without steel rebars or unbreakable objects.
C650C	High chrome +Ceramic	600-650HB	Up to 100% increased on C650	Same as above but where longer wear life required.
C650X	High chrome +Ceramic	600-650HB	150% increased on C650	Small feed size of high abrasiveness and high strength materials, such as gravels, granites without unbreakable objects



Sunwill supply blow bars to suit following crushers:

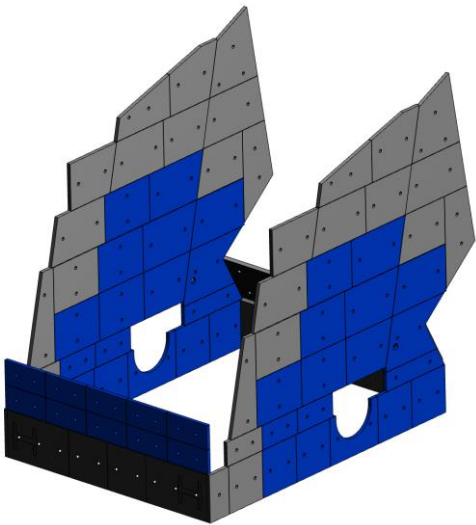
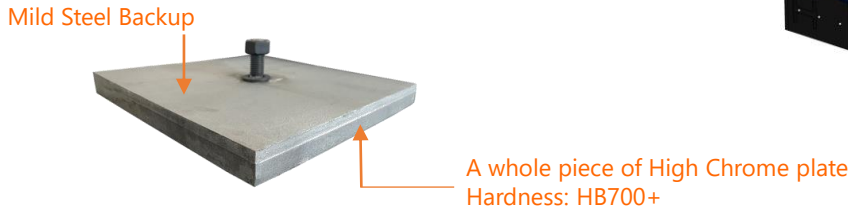
Metso,
Kleemann
Terex
Powerscreen
Finlay
Evoquip
Rubblemaster
Hazemag
Tesab
McCloskey

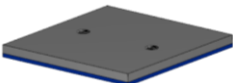

Eagle
KPI-JCI
Sandvik
Hartl
Striker
Portafill
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SIDE LINERS AND IMPACT PLATES

BIMETALLIC COMPOSITE SIDE LINER

A special wear liner developed by Sunwill.
The wear face is a whole piece of high chrome plate backed with steel plate (not hardfacing).
Wear life of this composite liner is **300% to 400%** as long as the alloy steel liners.



Parts	Code	Material	Hardness	Applications
 SIDE LINER	R50	Bimetallic	>700HB	High abrasiveness applications, particularly at the rotor areas where the most abrasion happens.
 IMPACT PLATE	S200	Manganese steel	200-250HB	Large feed size low abrasiveness stones
	S550	Martensitic steel	500-550HB	Large to medium feed size low abrasiveness
	S550C	Martensitic +Ceramic	500-550HB	Small to medium feed size high abrasiveness
	C650	High chrome	600-650HB	Small feed size high abrasiveness without unbreakable objects

