

One of the most modern cutting edge technologies in wear and tear application is Zuper Sinter cast introduced by M/s. IMCO Alloys Pvt. Ltd. This patented product is become one of the most widely used in the most critically affected wear areas, in Sugar, Power, Mining, Cement & Steel industries world wide.

Such a type of application of Clinker Crusher hammer used in M/s. The Godavari Sugars Ltd; Karnataka.



Fig. No. 1 - Mn Steel Clinker Crusher Hammer.



Fig. No.2 - Mn Steel hammer after 4500working Hours.

Observation: Mn Steel hammers are wear out after 4500 hours of continuous operation.



Fig. No. 3 – Swing type Fibrizor Hammer Body with Zuper Replaceable Block Carbide tip

M/s. The Godawari Sugars Ltd. hammers after 4500 hours of continuous operation chromium matrix has out perform the manganese hammers by 4times with only one side wear on tip and the bolt is unaltered.

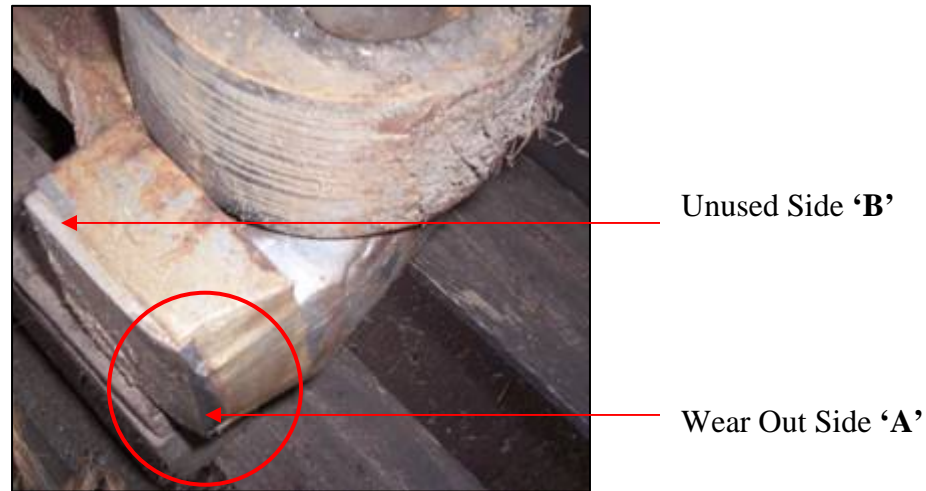


Fig. no. 4 Clinker Crusher Hammer with Zuper Block Replaceable Carbide tip

Advantages

- 1 No welding process involves single bolting system. Only torque of 250 psi/ft is applied. Hence hammer body remains intact.
- 2 Minimum of 3 season life increase on hammer body.
- 3 Uniform shape, size and orient action as equal tolerance on all sides, hence P. I. is grater.
- 4 Powder matrix are sintered, hence carbide contents are more than 65%, hence hardness is equal in all sides / core / sections.
- 5 Hardness of Primary carbides i.e. pure chromium carbides is 660Hv Secondary carbides i. e. M7C3 will have 1500 Hv.
- 6 Maximum 2 hrs. to loosen bolts and turn the sides with proper torque wrench