

Applications

Solution

Innovative

XP Hammers Crush O.E.M.s

By Cory Booz

Any crew that has had the arduous task of changing out a set of crusher hammers in a large, high-capacity coal crusher, will attest the job is neither quick nor easy. Changing out hammers in this particular Pennsylvania Crusher proved to be no different.

First, removing the huge cover, then sliding each of eight hammer shafts outward to allow removal of approximately fourteen heavy hammers, one row at a time, the job is not for the faint of heart. Once each of the bulky hammers is discarded, the job is only half done. It's time to reverse the tedious process and install the new replacement hammer. These hammers often weigh up to 50 lbs each. The new hammers have to be put back into the same position, in an order that ensures a proper weight balance across each full row.

Now thanks to **Wear-Con's XP Hammer™**, crews all over the world are reaping the benefit of far fewer change outs, resulting in hammer and labor costs actually going down!



Wear-Con Bi-Metal XP Hammers™ in a Coal Crushing Mill after 5,500 hours of use!

One of many places to find this actual scenario is in a Midwest power plant. Testing the technology since 2005 and recently signing a 3-year deal with **Wear-Concepts** to use their **XP Hammers™** exclusively in their Pennsylvania Crusher, they are not only reaping the benefits of fewer change outs (not to mention a much happier maintenance crew), but after using the technology through some complete full runs, they are finding the performance statistics to be a pulverizing blow to their previous OEM hammers. Crushing Western Powder River

(continued on page 2)

2845 E. Heartland Drive
Liberty, MO 64068

888-4WEARCON (888-493-2726)
816-587-1923 • Fax 816-587-2055
info@wearcon.com
www.wearcon.com



Basin coal, their previous 'upgraded' OEM hammers provided a service life of approximately 2000 hours. Upon inspection, the length loss was catastrophic and the hammers were misshapen, making replacement intervals short. (See Figure 1) In fact, as a point of reference, the hammers typically had to be changed out twice for every one set of crusher screens they went through.

Statistics from the **Wear-Con Bi-Metal XP Hammers™** tell a completely different story! After 7,800 hours of crushing 2.1 million tons of coal, the **XP Hammers™** were finally replaced. (See Figure 2) Now that's performance! Further studies by the fuel yard maintenance manager have also revealed another astonishing number. \$650,000! That's the conservative estimated savings per year in eliminating: down time, labor, hammer purchases and by increasing performance from other components in the crusher such as crusher screen life.



Figure 1:
The OEM manganese hammer after only 2,000 hours of use.



Figure 2:
The **XP Hammer™** after 7,800 hours of use.

Successful plant managers and maintenance crews are continually seeking ways to extend the life of components and to cut costs. As more plants like this Midwest power plant are learning, **Wear-Con's XP Hammers™** are one such technology that will cut down on both costs and labor.

Better performance.

Longer life.

Guaranteed.

Product	Hours in Use	Weight Lost	Avg lbs Lost/hr
XP Hammer™	7,800	21%	.0013
OEM Hammer	2,000	36%	.0090



888-4WEARCON (888-493-2726)
816-587-1923 • Fax 816-587-2055
info@wearcon.com
www.wearcon.com

2845 E. Heartland Drive
Liberty, MO 64068

Innovative
Solution
Applications