

Customer Testimonial

Featured Company: Corrosion Engineering

Mining Manufacturer Eliminates Cracking

There are few industries more abusive on metal parts than the mining industry. However, thanks to Meta-Lax® stress relieving, **Corrosion Engineering** has eliminated a majority of cracking and fatigue problems on their products.

Located in Mesa, Arizona, Corrosion Engineering specializes in manufacturing Vibrating Screen Decks and Re-enforced Feeder Boxes.

These products are constantly subjected to tremendous impact stress when heavy rocks are dropped onto them. As a result, weld strength is put to the test virtually every day. When cracks begin forming, the frequency of repairs increase.

Corrosion Engineering realizes the demands placed on their products and thrives in meeting the challenge. According to President Don Dunn, "The quality of our products is always a high priority. That's why stress relieving has been an important part of our manufacturing."

In fact, each major component of the Vibrating Screen Deck is stress relieved as well as the entire Reenforced Feeder Box, which is a weldment.

"With Meta-Lax, there's no treatment distortion, and we can do more parts." Prior to using Meta-Lax, furnace stress relief was used. According to manufacturing engineer Jim Kelly,

"It would cost \$2,000 per 20 cross tubes for stress relieving. We also had treatment distortion."

Corrosion Engineering switched to using Meta-Lax stress relief equipment in 1991. Since then, Meta-Lax



Corrosion Engineering uses Meta-Lax to stress relieve these cross-tubes saving approximately \$70,000 over thermal stress relief.

has been applied to the 18-24 cross tubes per Vibrating Screen Deck after fabrication and before machining, requiring only about 30 minutes per cross tube.

"With Meta-Lax, there's no treatment distortion, and we can do more parts. Some parts we can do a second time after machining if we want," Explained Kelly.

Besides saving time and money, Kelly is most excited about the performance of their parts. "Since using Meta-Lax, we eliminated cracking in the last 600-700 cross tubes we made over a four-year period. That's unheard of in our business!"

"With Meta-Lax we save time and money. Since using Meta-Lax, our customers have reduced their maintenance costs since our parts are lasting longer," Kelly added.

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