

PROJECT PROFILE

Bucyrus Side Frame

The Brandt Industrial Repair Service team delivers exceptional repairs to ensure our customers can get back up and running with minimal downtime.

Whatever the industry, Brandt delivers unmatched end-to-end solutions, refurbishing components and equipment to OEM specifications or better.

The Challenge

- A customer required a rebuild and upgrades on their Bucyrus 495 Electric Rope Shovel.
- The equipment had significant structural failures occurring throughout the frame, as well as excessive wear in the tumbler and roller pockets, which were impacting operational reliability.



The Solution

- Brandt met with the customer for an on-site analysis to determine the scope of the repair and establish customer expectations.
- Following the comprehensive inspection, the Brandt engineers developed the detailed repair plan for the project.
- In critical wear locations, the OEM specified 4" plate was increased to 6" to provide increased strength to the frame.
- All worn, cracked, and damaged areas were welded and refurbished to OEM standards.
- Bores and bore faces in all areas were built-up and machined using our large capacity horizontal boring mill, providing superior results to conventional boring methods.

The Result

✔ Reliability

The repair and upgrades resulted in a significant improvement in mean time between failures (MTBF), reducing the frequency of unscheduled outages due to structural or component failure.

✔ Total Cost of Ownership

The machine was returned to OEM specifications or better for less than 40% of the cost of replacement.

And, the efficient refurbishment process allowed the work to be completed rapidly, and on schedule, for maximum value with minimum downtime.

With 24/7/365 support, Brandt will always be there to help ensure the success of our customers, day or night. **It's what we do. We build confidence.**

