

# REBUILDING PULVERIZER WEAR PARTS ON MPS STYLE MILLS



**RileyPower**  
a Babcock Power Inc. company

## OVERVIEW

Babcock Power Services Inc., a Babcock Power Inc.® company, now provides a new technology for weld overlay resurfacing for vertical spindle MPS style pulverizer Grinding Tires. Using a patented process developed by Cladding Technology, now owned by Babcock Power Services, a special tungsten carbide material is applied during the overlay process that increases the life cycle of the refurbished part to beyond that of the original OEM part. This process has been utilized on multiple manufacturers' pulverizers, including Alstom (Raymond) and Babcock & Wilcox, with Ni-Hard and high chrome rolls. Steel core grinding tires are available for both standard and low profile MPS mills.

Babcock Power Services' patented process has a proven track record of providing superior wear life with hundreds of rolls in service grinding some of the most abrasive fuels. Tungsten carbide particles are embedded during the final overlay process providing the superior wear resistance of tungsten carbide in the highest wear area on the roll.

In addition to our patented overlay capabilities, Babcock Power Services can also perform weld overlay on Brackets in eroded and high wear areas and refurbish Yoke and Ring Seats, using the best quality products to bring your equipment back to OEM spec. And if standard refurbishment doesn't meet your requirements, we also offer longer lasting, better performing upgrades including Ceramic Lined Wear Brackets and Upper Bracket Liners.



Tungsten Carbide Overlay



Refurbished MPS 89 Grinding Tire

## FEATURES / BENEFITS

**Our patented Tungsten Carbide Overlay Process significantly increases the life compared to other overlay rebuilding processes or new cast OEM rolls.**

### Reduce material and maintenance costs

- Resurfaced tires typically cost less than new parts
- Lower net cost as a result of less frequent overhauls

### Minimize downtime

- Resurfacing tires takes only 2-3 weeks, compared to original OEM production that often exceeds 12 weeks - a net time savings of 2 months
- Outage schedule flexibility for pulverizer overhauls
- Increased wear life allows for longer periods of operation
- Overhauls can be scheduled during low demand seasons







Ceramic Liner on Roll Wheel Bracket – Original OEM design did not supply any wear resistant material or line the cast



Before and After Yoke and Ring Seat Refurbishment



Tungsten Carbide



Weld Overlay Applied to Brackets



## FEATURES / BENEFITS (CONTINUED)

### INCREASE LIFE CYCLE

- “New” pulverizer performance for more operating hours
- Maximum grinding capacity is maintained for longer periods between overhauls; fineness remains higher for a longer period of time
- Pulverizer differential pressure remains low, preserving primary air system margins
- Power consumption stays lower
- Severely worn tires can be overlaid

#### SAFETY<sup>3</sup> PEOPLE. POWER. PROJECTS.

We're giving safety the third degree.

Babcock Power Inc. and its subsidiaries place the safety, health and security of our people at the core of our company values. Our team is our most valuable resource, generating solutions everyday to deliver safe, clean, reliable energy globally. With a keen focus on safety, Babcock Power Inc. conducts business in a manner that protects our people, our customers and the environment. From innovation to generation, we are proud of our award-winning safety record and are committed to operating with integrity and excellence.

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