Fisher Barton

Construction

Engineered Wear Solutions for Heavy-Duty Performance

Fisher Barton is a premier manufacturing innovation partner delivering high performance, wear resistant components engineered specifically for the construction industry.

Built on more than five decades of metallurgy, materials science, and advanced surface engineering, we help OEMs and suppliers enhance the productivity, durability, and reliability of equipment used on the job site every day.

Construction equipment is pushed to extremes—abrasive soils, high impact loading, vibration, shock, moisture, corrosive materials, and thermal cycling all accelerate wear. Unplanned downtime is costly, and component failures can compromise safety and project timelines.

From earthmoving, demolition, and material handling systems to attachments and powertrain components, Fisher Barton delivers engineered solutions designed to withstand the punishing environments of modern construction applications.

Surface Engineering & Engineered Coating Solutions

Fisher Barton's engineered coatings significantly elevate the life and performance of construction components exposed to abrasive and high impact environments.

Thermal Spray Coating Technologies

- HVOF, Plasma, Electric Arc, Flame Spray
- Dense, wear resistant coatings for cutting tools, wear plates, pins, bushings, and hydraulic components
- Low porosity, high bond strength surfaces engineered to outperform traditional hardfacing

Laser Cladding

- Metallurgically bonded overlays
- Ideal for high impact or high abrasion applications
- Precision application for complex geometries

Proprietary Fusing & Bonding Processes

- Enhanced coating adhesion
- Reduced distortion
- Exceptional density for long term wear resistance

Surface engineering allows OEMs to extend component life, reduce replacement intervals, and maintain consistent machine performance throughout the equipment lifecycle.

Applications Served

Fisher Barton engineering and surface solutions deliver performance improvements in:

- Earthmoving and excavation tools
- Cutting edges, wear plates, scraper and grader blades
- Demolition and crushing components
- Augers, trenching tools, and drilling heads
- Hydraulic actuator components and motion control parts

Solving the Industry's Toughest Wear Challenges

Fisher Barton brings industry leading expertise in wear behavior, metallurgical design, and engineered surface modification to combat:

- Abrasive wear from sand, gravel, aggregate, and demolition debris
- Impact and fatigue wear from repetitive loading
- Fretting and galling in pivot points, linkages, and hydraulic interfaces
- Corrosive wear from chemical exposure, moisture, and soil conditions
- Erosive wear in high velocity material flow and cutting environments

Our solutions increase component life, reduce maintenance frequency, and support equipment uptime—even under the harshest operating conditions.

Deep Knowledge of Metallurgy & Material Science

At the core of Fisher Barton's value is our world class Technology Center, staffed by materials engineers who specialize in the science of how components fail—and how to prevent it.
Our expertise includes:

- Alloy development and selection for high wear applications
- Microstructure engineering for improved toughness and hardness
- Advanced heat treatment processes, including austempering and laser heat treating
- Failure analysis using SEM, EDS, and mechanical testing
- Wear mechanism benchmarking (abrasion, erosion, impact, fatigue)

This knowledge allows us to tailor materials and surface treatments to your application environment, ensuring optimal durability and performance.

Advanced Manufacturing for Construction Grade Components

Our vertically integrated operations allow for tight process control, high repeatability, and reliable quality across large scale production.

Capabilities Include:

- Close tolerance CNC machining
- Laser cutting, waterjet cutting, forming, stamping
- Robotic and laser welding
- Hardfacing with precision placement
- Automated packaging and kitting
- In house tool design, repair, and maintenance

We manufacture components that meet the construction industry's expectations for ruggedness, longevity, and consistency.

Why Fisher Barton for Construction OEMs?

- Metallurgy first design approach—proven to extend wear life and reduce field failures
- Engineered coating solutions for extreme construction environments
- Advanced machining and forming for complex, high strength components
- Vertically integrated manufacturing for quality, speed, and cost control
- Decades of application expertise across heavy equipment and industrial markets

Fisher Barton is more than a parts supplier—we are your materials engineering and manufacturing partner, delivering robust, high performance solutions that keep machines running longer, safer, and more efficiently on the job site.

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