Fisher Barton

Transportation

Engineered Components and Wear Solutions for
On-Road and Off-Highway Applications

Transportation systems operate under constant mechanical stress, vibration, and environmental exposure. From commercial vehicles and rail to specialty and off highway equipment, components must deliver consistent performance while meeting strict quality, safety, and durability expectations.

Fisher Barton partners with transportation OEMs and Tier suppliers to manufacture critical components and wear parts engineered for reliability, repeatability, and long service life. Backed by deep metallurgy expertise and vertically integrated manufacturing, our solutions support performance, uptime, and compliance across demanding transportation applications.

Understanding Transportation Wear and Performance Challenges

Transportation components face a combination of forces that drive wear and failure:

- Continuous vibration and cyclic fatigue
- Abrasive wear from debris, particulates, and road contaminants
- Corrosion from moisture, salt, fuels, and chemicals
- Impact loading and shock from uneven terrain or duty cycles
- Tight tolerance requirements for safety critical interfaces

These challenges demand materials, heat treatments, and surface solutions engineered to perform consistently over time.

Transportation Components and Wear Parts We Manufacture

Fisher Barton manufactures a wide range of components used throughout transportation platforms, including:

- Shafts, hubs, and rotating components
- Brackets, mounts, and structural parts
- Wear plates, liners, and protective components
- Precision machined and fabricated assemblies
- Cutting and wear components for specialty and auxiliary systems

Each component is engineered for it specific application—balancing strength, toughness, wear resistance, and manufacturability to meet real world operating demands.

Metallurgy & Material Science: Engineering from the Inside Out

Fisher Barton's Technology Center provides the foundation for transportation component performance. Our engineering teams apply material science principles to address failure modes before they occur. **Capabilities include:**

- Application specific alloy and steel selection
- Microstructure optimization through controlled heat treatment
- Failure analysis and wear mechanism identification
- Substrate and surface pairing strategies for durability and performance

By engineering the material and microstructure—not just the geometry—we deliver components designed for long term reliability.

Advanced Manufacturing Built for Transportation Demands

Fisher Barton's vertically integrated manufacturing model supports consistency, scalability, and supply chain reliability—key requirements in transportation markets. **Manufacturing capabilities include:**

- CNC machining for tight tolerance components
- Laser and waterjet cutting for complex geometries
- Robotic welding and joining for repeatable strength
- Grinding, finishing, and surface preparation
- Prototyping and process validation for new programs.

From early development through production, our processes are designed to deliver repeatable quality.

Advanced Surface and Wear Solutions

Many transportation components benefit from engineered surfaces that extend life and reduce maintenance. Fisher Barton offers a range of surface engineering and coating technologies to protect against abrasion, corrosion, and fatigue. **Surface capabilities include:**

- Thermal spray coatings for wear and corrosion resistance
- Laser cladding and hardfacing for high wear areas
- Proprietary surface enhancement processes to improve bond strength
- Low friction solutions to reduce heat and material loss

These technologies are applied selectively to maximize benefit without compromising component integrity.

Why Transportation OEMs Choose Fisher Barton

- Proven experience manufacturing high duty transportation components
- Metallurgy driven engineering to reduce premature failure
- Advanced surface solutions tailored to real world conditions
- Vertically integrated manufacturing for consistency and control
- Strong quality systems supporting safety critical applications

Fisher Barton is more than a component manufacturer—we are an engineering partner delivering durable, high performance solutions for today's transportation systems.

Quality Systems and Standards

Transportation applications demand rigorous quality control. Fisher Barton operates under established quality management systems designed to support OEM and Tier supplier requirements.
Our quality focus includes:

- Documented process control and traceability
- Inspection and validation throughout manufacturing
- Continuous improvement and corrective action systems
- Compliance with applicable customer and industry standards

Quality is embedded in every step of our manufacturing process—not inspected in at the end.

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