

Composite Bearings Extend Operation for The Rail Industry

■ A partnership with TriStar gives you a competitive edge.



Did you know that US railroads boast over 70,000 miles of track? At TriStar, we've provided composite bearings to the rail industry for decades, it can't be matched by bronze, steel and other bearing materials.

Our partner manufactures tractor boom arms, mower heads and hedge trimmers that are used to keep rail tracks free of overhanging vegetation. They noted that their bronze bearings failed soon after installation given the extreme weather conditions and cantilevered loads of this tough environment.

Our design team replaced the bronze bearings with CJ composites; a powerhouse material that resists high loads and shaft misalignment. CJ bearings run well against steel mating hardware, and can withstand misalignment caused by operation over uneven terrain.



CJ Bearings

CJs excel in heavy-duty applications

After a trial period, our partner reports that CJ bearings have exceeded their expectations and provided exceptional service life.

Look to composite bearings for the rail industry:

- **Self-lubricating design** = lower maintenance with fewer trips to the maintenance yard
- **Corrosion resistance** = good tolerance for exposure to chemicals, rain and mud
- **Lightweight design** = finished components weigh less and provide better fuel efficiency
- **High-load capacity** = longer service life despite compressive loads and misalignment
- **Temperature stable** = resistance to freezing winter rail conditions and pounding sun

From brake and caliper beams, to track clearing and railcar wash systems, composite bearings deliver durability and corrosion resistance.

We're ready to put our engineering expertise to work for you from prototype to production.

Engineering | Custom Fabrication | Manufacturing



CJ Composite

- Self-Lubricating
- Low weight | High Strength
- Chemical Resistance
- Direct replacement for Bronze



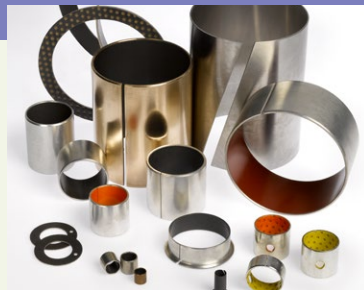
Ultracomp[®]

- Self-Lubricating
- High Load | Low Speed
- 54,400 PSI Compressive Strength
- Exceptional Resistance to Vibration and Impact



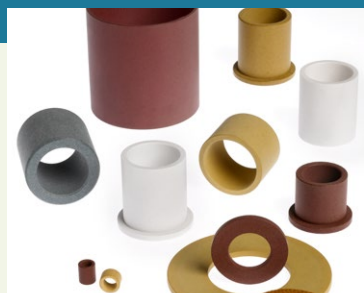
TriSteel[™]

- Self-Lubricating
- High Load | High Speed
- Metal Backed Bearing System
- 100% Lead Free



Rulon[®]

- Self-Lubricating
- Low weight | High Strength
- Low Coefficient of Friction
- Chemically Resistant



Enhanced Materials Division

- Plasma Surface Treatment
- Specialized Primers & Coatings
- Material ID & Selection
- Process Engineering | Analysis & Testing



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