

Composite Bearings Improve Safety of Firefighting Equipment

A partnership with TriStar gives you a competitive edge.



Ultracomp Bearings

According to the National Fire Protection Association, there were over 1.3 million fires in the US in 2017, which resulted in property damages totaling more than \$23 billion. Yet it's safe to say that each blaze was responded to by a team of dedicated firefighters; some career, others strictly volunteer. At TriStar, we're proud to improve the efficiency and safety of firefighting by delivering composite bearings to the top makers of firefighting equipment.

Ladder and snorkel trucks require rock-solid stability to support the extreme weight of hundreds of gallons of water, multiple hoses and other firefighting equipment. Yet the nylon pads one manufacturer used on their engine outriggers could not support these excessive weights plus the exposure to water and foam chemicals caused breakdown over time.

Outriggers have better stability with Ultracomp

We replaced the wear pads on the outriggers with self-lubricating, high load Ultracomp® bearing pads. Since making the switch from nylon to composite bearings, our partner notes the trucks have much better stability for improved safety. And Ultracomp bearings are self-lubricating for better efficiency and lower maintenance.

Why composite bearings for firefighting equipment? They provide:

- **Excellent high-load and shock value** – to ensure smooth operation and good stability on rutted pavement
- **Good coefficient of friction** – for quick ladder deployment and years of dependable service
- **Superior chemical resistance** – against spray from extinguishing chemicals, with zero moisture absorption
- **High-temperature tolerance** – for flawless operation in searing heat and freezing temperatures

Composite bearings can even reduce injury to firefighters as they rush to the call. [Read how CJ bearings support the pivot points of high-end fire safety seats.](#)

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



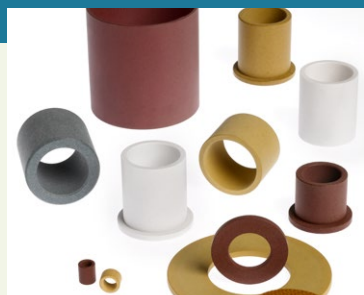
TriSteel[™]

- 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



Engineered Plastic Solutions[™]

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1.800.874.7827