

# Composite Bearings Increase Riders' Mobility on Mass Transit

■ A partnership with TriStar gives you a competitive edge.



FCJ Composite Bearings

*We recently completed a particularly gratifying application, as we retrofitted wheelchair lifts that are located on commuter buses.*

*Our client manufactures transit wheelchair lifts, which enable commuters of all abilities to access public transportation. The lifts are attached to commuter buses, and enable wheelchair commuters to roll onto a flat ramp at street level and be lifted to bus level, before the ramps fold back into position.*

*Our client noted their bronze bearings were causing vibration that hindered the lifts from a smooth deployment. They needed to replace the poorly-designed bronze bearings to ensure a safe ride from sidewalk to bus.*



## Our Custom Solution

Our team installed [FCJ bearings](#) on the center and rear pivot points of the fold-out ramp frame. FCJs are known for good resistance to shock and load, yet are also a lightweight material that does not add significant heft to moving parts.

The FCJs provided the perfect combination of strength and durability to the bus ramps. We also chose this material because it is well-suited to tolerate the dirty undercarriage and constant vibration of a metropolitan transit system.

[Explore our FCJ design guidelines.](#) Or [see the CJ applications video](#) to explore the unique characteristics of this material!

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<sup>®</sup>

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



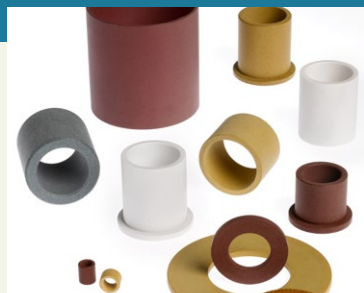
## TriSteel<sup>™</sup>

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



## Rulon<sup>®</sup>

- 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



TriStar



Engineered Plastic Solutions<sup>™</sup>

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