

TriSteel™ PT Metal-Backed Bearings Raise Hoist Effectiveness

■ A partnership with TriStar gives you a competitive edge.



TriSteel Bearings with PT Liner

A customer recently contacted TriStar about an increase in field failures on a manual lifting hoist the company manufactures. These are chain hoists seen in many different industries for lifting loads up to 10,000 lbs. and the failures were with the chain pulley bushings.

After looking at the application and studying the requirements, TriStar engineers suggested a couple of options: either our [CJ Composite](#) or TriSteel PT bearings.

After discussing the long-term goals for product expansion with the customer, we jointly agreed that the more cost-effective solution with the highest load potential for future designs was the TriSteel PT bearing.

Enter TriSteel – The Metal Backed Bearing System Designed for Rigorous Applications

[TriSteel](#) bearings are metal backed, polymer-lined bearings that are self-lubricating, carry very high loads, have very low friction and are cost effective.

The customer wanted all these features to support their ongoing efforts to improve their product. In addition, they wanted to be able to buy from a US company with stock to support ever-increasing production milestones.

Other TriSteel Benefits Include:

- Thin wall means smaller design envelope
- Thermal expansion same as steel
- Functions well in dirty environments
- Doesn't absorb water

Simple, cost-effective, no grease required, and able to support the customer's plans for higher loads and manufacturing output moving forward. For this customer, TriSteel PT was the perfect solution!

[Check out our TriSteel product overview video.](#)

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
- Asymmetric & Symmetric Filtration Membranes
- Specialized Primers & Coatings
- Material ID & Selection



TriStar



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