

Ultracomp[®] Self-Lubricating Composite Bearings for Ferry Dock Systems

■ A partnership with TriStar gives you a competitive edge.



For nearly 20 years, TriStar's Ultracomp bearing products have been used in a variety of applications on ferry docking systems around the world. The designs vary, ranging from simple single-wide drop-down ramps on cable ferries to massive hydraulically controlled ramps that can be both dock and ferry mounted.

Typical applications include lift-and-tilt applications for mounting pins on the ramps, hydraulic cylinder rod ends, and slide pads for bump locations and post bearings. Many designs utilize large steel sheaves for cables, with [Ultracomp](#) replacing lubricated bronze and ball bearings in the sheaves with great success.



What Makes Ultracomp Work So Well in These Applications?

- Ultracomp composite technology easily handles unusually high loads and shock conditions.
- Ultracomp is resistant to salt water, spray, or fog, passing naval testing for ship and dock service. It also excels in freshwater lake dock systems.
- It is non-corroding and dielectrically inert, preventing any cathodic reactions between hardware components.
- These materials are self-lubricating so no grease is required – ever!
- Ideal for high frequency use in [car and passenger ferry systems](#) – long life can be expected if properly designed.
- Compatible with all hardware conditions – mating metals, coatings, plating, etc.
- Ultracomp has a wide temperature range, from cryogenic to +285°F, covering all known operating conditions.

In addition, Ultracomp is UV stable, 15X stronger than bronze, and non-toxic to workers and the environment.

[Reach out to our experts to learn more!](#)

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
- High Compressive Strength
- Vibration & Impact Resistance



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



Meldin[®]

- High Performance Materials
- High Temp Dimensional Stability
- Chemical Resistance
- Withstands Thermal Shocks



Enhanced Materials

- Plasma Surface Treatment
- Filtration Membranes
- Specialized Primers & Coatings
- Material ID & Selection



TriStar



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1.800.874.7827

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