

Waterproof Bearings Are Industry-Certified to Excel

■ A partnership with
TriStar gives you a
competitive edge.



The American Bureau of Shipping leads the way in setting product safety standards for the marine equipment industry. Components ranging from gearboxes and pipe fittings to cranes and winches have passed the rigid certification standards of ABS – yet not all marine bearings have. Ultracomp bearings are among the select few.

Our partner needed a waterproof bearing for the pivot points and slide pads of their new marine crane design. Their specifications called for a material with zero moisture absorption, good vibration tolerance, no corrosion, plus above-average load and strength capacity.

Our Experts had the team fill out [a bearing design worksheet](#) outlining the expected static loads, operating speeds, boom extension rates and other specifications.



Ultracomp 300A exceeded all design specifications

After a thorough review, our team recommended ABS certified Ultracomp 300A as the ideal material for their marine cranes. [ABS Product Design Certification](#) is an independent seal of quality, and designates [Ultracomp](#) as excellent for use in deck, dock and underwater environments.



With a static load capacity reaching 50,000 PSI, PV ratings at 25,000, and tensile strength at 17,000, Ultracomp 300A was a perfect fit. The 300A material is a polyester-based resin system that is best for full-rotary motions under 50 SFPM [or "low and slow" speeds].

Ultracomp's self-lubricating design runs maintenance-free without lubrication

Ultracomp 300A gave our partner a bearing with superior compatibility to their stainless hardware, protection against galvanic reactions, plus the waterproof bearings will never rust, despite the corrosive combination of salt air, fog and water submersion.

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



TriStar



Engineered Plastic Solutions[™]

tstar.com

1.800.874.7827