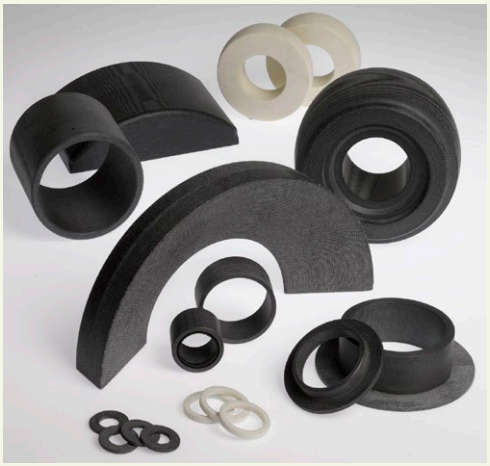
Agriculture Bearings: Polymers Outperform Metals

A partnership with TriStar gives you a competitive edge.

Historically, design engineers have specified steel or bronze as the preferred agriculture bearings for the seeders, combines, tractors and other workhorses of the farming fleet. Metal bearings were thought to have the durability to endure harsh outdoor conditions. But thinking has changed. Today, high-performance polymers are changing the game in agriculture bearings.

Timing is everything in agriculture, as planting and harvest schedules must be achieved within a certain timeframe to maximize production. Add to that uncertain weather conditions and you can understand why there is no time in this industry for equipment failure - time lost in the field equals lost revenue.

Polymer agriculture bearings make a difference not only to equipment manufacturers, but also to the farmers they design for.



Ultracomp®

Durable polymers such as Ultracomp bearings are increasing the productivity of agriculture machines by delivering:

- Self-lubricating design to eliminate the manual greasing required of metal bearings. No grease also means no contamination of the soil!
- High strength-to-weight ratio (7:1 with some materials) for weight reduction without loss of structural integrity.
- High tolerance for corrosive farming chemicals, pesticides and overspray.
- Zero moisture absorption from rain, fog and snowy conditions.
- Capable of withstanding the continuous impact and vibration common in field equipment.

Ultracomp bearings are an excellent metal replacement on the pivot points, assemblies, and the lift and tilt cylinders of farming machines.

Learn more in our free agriculture white paper or check out our new video on bearings for peanut processing.

We're ready to put our engineering expertise to work for you from prototype to production.

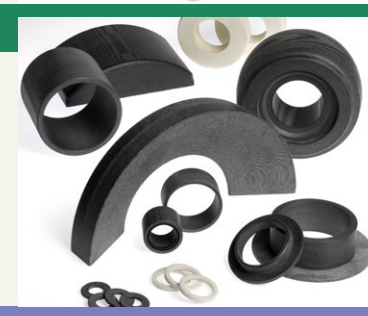
Engineering | Custom Fabrication | Manufacturing

CJ Composite

- Self-Lubricating
- Low weight | High Strength
- Chemical Resistance
- Direct replacement for Bronze

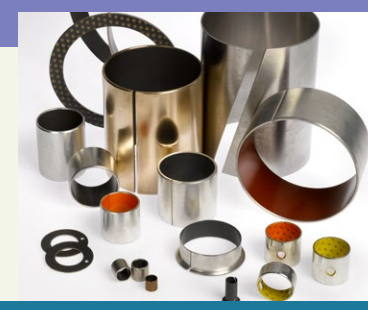
Ultracomp®

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



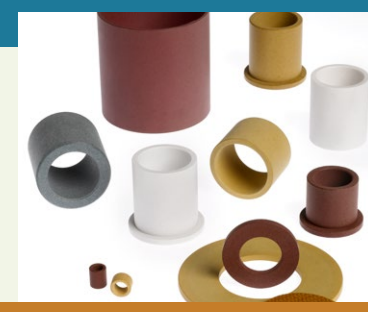
TriSteel™

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



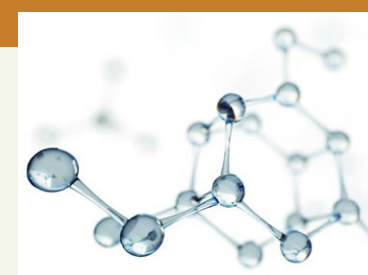
Rulon®

- 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™

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