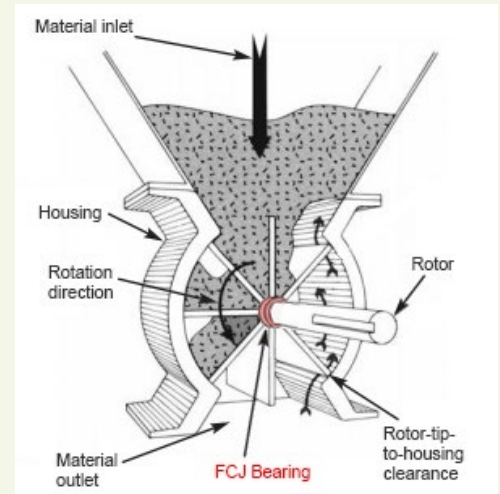


Composite Bearings Resist Fine Particulate in Food Packaging

A partnership with TriStar gives you a competitive edge.



A manufacturer came to us to solve a rotary airlock valve bearing problem. Their equipment is used to package dry goods such as grains, sugar and flour.

They were using a bronze bushing along with a special FDA grease which had to be constantly monitored. They complained that the grease became a lapping compound which attracted fine particulate on the bearing face, which led to rapid failure.

The customer had several requirements. They needed consistency in movement, easy valve cleaning via normal CIP products, plus extremely low friction so they could reduce their overall energy consumption on the line.

FCJ bearings boost production without grease

Our recommendation was the [FCJ bearing](#). A reinforced composite with a Rulon® F tape liner, FCJ is a self-lubricating bearing with very low friction. The liner absorbs fine particles even in the event of a seal failure. It also excels in the most-aggressive processing and packaging applications and tolerates all CIP systems.

Why FCJ composite bearings for food packaging?

- No lubrication for improved food sanitation
- Thermal stability and resistance to moisture from CIP
- Reinforced design for longer service lifetime
- Increased compliance with food processing and packaging GMP

Want to explore food-grade materials for your manufacturing? Check out Ultracomp, Rulon 641, 1337 and 1439 in our [Food Processing](#) and [Food Packaging](#) technical white papers.

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