

Self-lubricating Bearings in Wood Processing: No Grease, No Dust



Sawdust is a natural result of wood processing, yet a major challenge to greased bronze bearings. With self-lubricating plastic bearings, processors can eliminate all grease and improve production. Our partner is a major producer of hydraulically-powered wood tilt tables used to feed and bundle lumber for cutting.

They described to us how they had installed bronze bearings on the pivot points of the tables, yet each time the bearings were lubricated, the grease became a lapping compound for dust.

Over time, sawdust accumulated to the point where the tables would seize and pivot abruptly. Without smooth movement, craftsmen could not achieve the right table positioning for precise cutting. The problem led to high material waste and even higher bearing replacement costs.

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■ A partnership with TriStar gives you a competitive edge.



CJ Composite Bearings

Self-lubricating bearings resist dust to improve production

[CJ self-lubricating bearings](#) immediately eliminated the grease-as-lapping-compound problem to give the tilt tables smooth, fluid movement and better positioning. After replacing bronze with [Self-lubricating composites](#), our partner reports they have increased cutting production and reduced material loss.

Why choose self-lubricating bearings over bronze in wood processing?

- Self-lubricating design gives grease-free operation with zero maintenance costs
- High-load capacity delivers better shock and vibration tolerance
- Low-friction design [.05] reduces bearing wear to extend service life
- Heavy-duty design accommodates lumber loads of all sizes

Want to learn how you can eliminate maintenance costs in your shop? Just [Ask an Expert](#) for tips on self-lubricating bearings! Or [get the white paper](#) to discover the advantages of greaseless CJ composites in agriculture applications.

1-800-TriStar [874-7827]

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



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