



## No Grease Bearing Solutions by EDT

For shafts to rotate, bearings are a necessity, and most bearings need to be regularly lubricated and inspected. Maintenance departments spend significant time with grease guns, maintaining oilers and buying, cleaning up, disposing of grease.

A food processing customer that we know quantified the costs associated with greasing and maintaining bearings at \$2 per day per bearing. For instance: \$.50/ounce for grease plus 3 minutes of \$30/hour labor. Therefore, 100 bearings costs \$200 per day in maintenance. It is not unusual to have hundreds of bearings in a processing plant; how many where you are? If you want to eliminate your dependence on grease, EDT offers some NO GREASE alternatives.

### 1. Use plane bearings whenever possible

Class 3 plane bearings require no grease because the materials from which they are made include ingredients that provide lubricity. EDT bearings, being solid polymer, have no rolling elements so they don't need grease - - which eliminates all of the issues associated with grease: purchase and disposal, inventory; regreasing after washdown, temperature or weather; product contamination; seals and shields to retain grease; etc. EDT plane bearings are ideal for locations:



- Running low to moderate speed
- At low to high load
- Operating wet or dry
- In low to high temperature: cryogenic (-150°C) to 800°F (260°C)
- On modular plastic and wire belt conveyors: Poly-Round® bearings are *GUARANTEED* for 1 Year of zero maintenance on these!



Use in wire belt conveyors, [modular plastic belts](#), fillers, augers, screw conveyors, [ovens](#), [fryers](#), freezers, [blenders](#), mixers, dumpers, [weighers](#), frequent start-stop locations.

**Not recommended on:** high speed, tight belts, overhung loads, trunnions

### 2. Where ball bearings are required, use solid lubricants

[Ball bearings](#) are the best choice for locations operating at high speed, tension (flat or tight belts), or overhung loads. [Solid lubricants](#) are available to replace grease in rolling element bearings. By eliminating the problems associated with grease, less maintenance is required, and bearings often last longer. EDT offers an array of solid lubricants that can be installed into many styles of ball bearings. Choices include high temperature and low temperature solid lubricants; even a vacuum-grade formula.



### 3. Don't grease bearings at all

Most rolling-element bearings come from the factory with a 30% to 50% grease fill. Many times, bearings are re-greased when it is not required. In ambient temperature applications, stop greasing all bearings with shafts smaller than 2". When heat is applied, greasing is required, but when high temperature is the normal operating environment, consider special temperature-appropriate grease, plane bearings or solid lubricants.

Proceed cautiously on extreme applications, but with moderate speeds or loads most bearings will last longer without greasing, since many times the bearings are over-greased and this causes other problems.

Would you like to eliminate the need to grease? Make a change to EDT plane bearings in appropriate locations and go grease-less

- Cleaner operation!
- Save time!
- Save money!

**EDT plane bearing products for severe service environments are manufactured in the USA**

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