EDT CASE STUDY

Solution® split plane bearings

Food Processor

Split Type E pillow blocks on cooling tunnel



Problems Powering long tunnel equipment, such as a cooling tunnel, involves

large shafts (4" diameter is not uncommon), large motors and heavy gearboxes. When the tapered roller pillow block bearings need to be changed out, all of these components must be removed. The wet environment demands the bearings be replaced at least once a year. This is difficult and time consuming, often requiring an outside contractor with a crane for a couple of days.

For this processor, the cost of using standard roller bearings over the course of a year was very expensive, including:

- Cost of original bearings
- Costs of grease and labor of routine lubrication (this plant: up to four lube cycles per week = 208 times per
- Time and costs to schedule maintenance with an outside contractor to work with maintenance staff (and the disruption to collateral equipment)
- Threat of difficulty of accessing bearings, keeping them lubricated for reliable operation, possibility of process contamination
- Downtime due to bearing failure

The Bottom Line

EDT bearings reduce the time and expenses involved in installing and operating these critical bearings.

Big savings in the first year, and even more in subsequent years.





Type E Solution® units are available 1-piece or split; pillow block, pilot and 4-bolt

Solutions EDT plane bearings address all of these

issues. Type E Solution® bearings directly interchange industry-standard tapered roller bearings. Advantages for this processor include:

- Split components allow bearing service without removing motor and aearbox, therefore eliminatina the need for outside contractor
- Eliminate grease (re-lube and as source of contamination)
- Fully non-corrosive units, no concern about rust
- Reduce labor: ZERO maintenance while bearing is in operation; after 1 year, open the split bearing, measure the wear. In this case, it was determined that there was at least 6 more months life on the first side. When the bearing does wear, reverse the top and bottom halves of the Poly-Sphere® and rebolt the top to get another 18 months of usable life
- Lower inventory costs: housing is a one-time purchase, sleeves reuse over multiple inserts; only the Poly-Sphere® is eventually replaced
- Length of service can be predicted and scheduled



Bearings For Severe Service Environments



COMPARE THE COSTS OF OWNERSHIP OF Type E Solution® Bearings ON COOLING TUNNEL INFEED AND DISCHARGE





No rolling elements

Locking sleeve assures high quality journal and radial placement to the shaft

When bearing is worn too far in one direction, rotate the top and bottom halves to double the bearing life

Simply unbolt the housing top to access the shaft

KleanCap® hex hardware is more sanitary than sockets

> Poly-Sphere® is the single replaceable component



For a Cost Of Ownership analysis of your own application, contact an EDT sales representative today

Let EDT Help!

To check which bearing is best for your application, complete a Bearing Design Checklist (BDC)

today and you'll hear from us promptly! edtcorp.com/docs/bearing-design-checklist.

OR...http://tinyurl.com/edtbdc



Bearings For Severe Service Environments

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