BEARINGS FOR SEVERE SERVICE ENVIRONMENTS

www.edtcorp.com
EDT specializes in bearings for severe service environments.

A bearing is a sacrificial part that supports a moving load. Severe service environments are ones in which a condition of the environment or application contributes to a premature failure of the bearing. In many cases, bearing failure is a result of failure of the lubricant. A change to EDT bearings in the right application can avoid frustration and lost productivity that may occur with bearings not as well suited to the conditions. Many of EDT’s products have USDA/NSF acceptance.

When to consider EDT products

- If you are changing a bearing more than once a year
- If you are greasing a bearing at least once a week
- If wash down or chemicals prematurely fail a bearing
- If food safety or product contamination is an issue when USDA or FDA HACCP/HARPC programs are in place

What EDT offers

- More than 30 years of experience in manufacturing and service of bearings for extreme environments
- Bearing products that are sanitary, cleanable and USDA/NSF accepted
- Grease-free bearings
- Targeted application solutions
- A broad range of products in all standard sizes and styles
- The ability to make custom and proprietary products
- Manufacturing in Vancouver, Washington, USA

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6 Ball Bearings
8 Housings
10 Specialty Bearings
12 Bearing Selection Guide
12 EDT Guarantee
13 Bearing Design Checklist
Advantages of Poly-Round® plane bearings

Polymer plane bearings are a good alternative to ball bearings because they utilize NO GREASE in locations where grease is an issue:
- Sanitary locations (ideal for HACCP/HARPC programs)
- Exposure to processing liquids, chemicals or submerged
- Washdown or dry
- Incomplete rotation or oscillating motion
- High or low temperatures

They are a good choice in hard-to-maintain locations:
- Do not require re-lubrication
- Are corrosion resistant
- Offer predictable operation and wear

They are cost effective:
- Interchange with industry-standard bearings
- Have reusable components
- Eliminate lubrication expense and time to reduce maintenance costs
- Guaranteed on modular belt conveyors for 1 year (see page 12)

Advantages of DoubleLock® sleeves and KleanCap® screws

316-stainless locking sleeve is tougher than most shafts:
- Protect shaft surface from abrasion and the normal wear caused by plane bearings
- Provide an optimal journal to increase bearing life
- Contain lateral shaft movement (replaces a set collar)
- Repair damaged shafting
- Available split

EDT’s KleanCap® screw has a unique raised hex-cap head:
- Better HACCP/HARPC compliance by eliminating socket cavities
- Made of 300 series stainless steel for maximum corrosion resistance
- More positive drive than a socket head fitting

Double Flange DoubleLock®
- Controls lateral loads in two directions
- DoubleLock® sleeve provides more positive clamping force than set screw locking sleeves
- Standard in Type E Solution® bearings

Poly-Round® application examples

- Modular plastic 6 wire belt conveyors
- Waste treatment floucculating tanks
- Idlers on conveyors and freezers
- Filling equipment
- Gates, doors, chutes

Environments where Poly-Round® bearings are a good choice:

- Cryogenic applications
- Ovens
- Submerged
- Chemical
- Washdown
- Incomplete rotation or frequent start-stop

1. Use CAUTION when considering plane bearings in these applications:
- High-tension applications (ex: belt drives; rubber, PVC and other flat belt conveyors, urethane belts)
- High-speed devices (ex: fans, pumps and table-top conveyors)
- Overhung loads (ex: unsupported shaft mounted gear reducers)
- Trunnion applications

In applications where plane bearings are not recommended, rolling element bearings are the best alternative. EDT offers a range of ball bearing products, refer to page 6.
Radial Poly-Round® bearings

Radial Poly-Round® bearings are 316 stainless steel and polymer Class III plane bearings that physically interchange industry-standard unmounted bearings. Radial Poly-Round® (RPR) bearings have the same advantages as spherical plane bearings:

- Greaseless, non-corrosive, non-rolling element interchange for unmounted ball bearings
- Available in most industry-standard sizes and various styles
- 316 stainless inner ring with polymer bearing material suited to application
- USDA/NSF acceptance for HACCP/HARPC programs

Type E bearings

EDT Type E bearings retrofit tapered roller bearings in locations where there is high radial load at low to moderate speed. Poly-Sphere® plane bearings in Solution® housings require ZERO lubrication and won’t rust. They can operate in temperatures up to 450°F/232°C and as low as -200°F/-140°C.

EDT Type E Solution® bearings are ideal for ‘heavy’ applications that are prone to corrosion, or where food safety is a concern.

Poly-Sphere® Bearing Inserts

RPB Poly-Sphere® insert is the wear component.
The spherical OD and long length thru-bore maximize the load capacity of the polymer.
- When worn too far in one direction, the Poly-Sphere® can be rotated 180° to utilize the opposite half.
- Poly-Sphere® material is application specific.

Options:
- ‘OF’ material (black):
  - Maximum speed and load capacity of plane bearing options
  - Unaffected by most chemicals at less than 400°F operating temperature
  - Cryogenic to 450°F/232°C
- ‘NA’ material (gray):
  - Moderate speed and load capable
  - Versatile, non-contaminating
  - -40°F/-40°C to 260°F/127°C

Split inserts are available to mate with split housing and 1-piece or split sleeve

Double Flange DoubleLock® sleeves

- Innovative Double Flange DoubleLock® sleeve restricts lateral movement of the shaft
- DoubleLock® provides maximum clamping force on shaft
- EDT KleanCap® screws offer:
  - better sanitation than socket-head screws by eliminating cavities
  - easier adjustment around the shaft

- Solution® housing of stainless steel or EDT KG polymer
- No grease: resistant to moisture and most chemicals
- Manufactured with smooth surfaces for maximum clean-ability
- Housing reusable thru many insert change-outs

Available:
- + pillow block, + 4-bolt flange and piloted
- + one-piece or split housing and bearings

Cost of Ownership Example

**Type E Solution® on food processing mixer**

<table>
<thead>
<tr>
<th><strong>Component</strong></th>
<th><strong>Cost/Year</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Initial cost of bearing</td>
<td>$271.00</td>
</tr>
<tr>
<td>Installation labor ($32/hr)</td>
<td>$16.00</td>
</tr>
<tr>
<td>Bearing and installation costs in 1 year</td>
<td>$287.00</td>
</tr>
<tr>
<td>Lubrication costs at .50/ounce</td>
<td>$26.00</td>
</tr>
<tr>
<td>Labor: .53/minute x 2 minutes per cycle x 52 wks/year</td>
<td>$5.33</td>
</tr>
<tr>
<td>Total Year 1 cost to buy and maintain each bearing (A+B)</td>
<td>$357.71</td>
</tr>
<tr>
<td>Savings after year 1</td>
<td>$303.38</td>
</tr>
<tr>
<td>Total Year 1 + Year 2 costs each bearing (C + G)</td>
<td>$719.42</td>
</tr>
<tr>
<td>Savings after year 2</td>
<td>$606.76</td>
</tr>
<tr>
<td>Total Year savings on 28 bearings per rehanger</td>
<td>$16,989.28</td>
</tr>
</tbody>
</table>

**Type E Solution® on Meyn Auto Rehanger**

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<tr>
<th><strong>Component</strong></th>
<th><strong>Cost/Year</strong></th>
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</tr>
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**Note:** New applications require a completed Bearing Design Checklist (BDC, see page 13)
**Ball bearings**

EDT recommends ball bearings for applications with high speed or high tension. EDT offers ball bearings in steel and stainless steel to withstand the rigorous demands of severe service environments. When steel is dictated for performance, EDT’s NCS (non-corrosive steel) feature enhances corrosion resistance. Stock is available in a wide range of styles and sizes, with options of specialty greases or solid lubricants.

**Eccentric lock (stainless or NCS available)**

Eccentric locking offers a positive binding action that increases with use because the eccentric inner ring of the locking collar engages the shaft. EDT’s stainless eccentric bearings include a 303-series stainless locking collar to maximize corrosion resistance where the bearing is most exposed to the environment. NCS is an option for sizes not available in stainless or when stainless inserts cannot handle the speed or load of the application. Many inch and metric sizes are available; lubes choices of food grade grease or solid lubricated.

**Stainless Ball Bearings**

400-series stainless steel bearings offer improved corrosion resistance over steel inserts. EDT has the widest availability of stainless inch- and metric shaft sizes, ½” to 3”, because interim sizes are accommodated with a bushing, and because EDT is one of the few U.S. sources for 214- and 215-ring size stainless inserts. Choice of food grade grease or solid lubricated.

300-series stainless steel ball bearings offer more corrosion resistance than 400-series stainless but with decreased load capacity. Available shaft sizes: 5/8” to 1-7/16”, choice of food grade grease or polymer solid lubricated.

**NCS (Non-Corrosive Steel)**

NCS is a surface treatment to steel ball bearings. It retains 95% of the performance capability with the benefit of corrosion resistance to many fluids. When shafts are more speed or load than stainless inserts tolerate, or for shaft sizes where stainless inserts are not available, NCS offers a reasonable alternative. Lube choices of food grade grease or solid lubricated.

**Radial ball bearing options**

EDT offers radial- and other unmounted- bearings in many styles based on the requirements of the location. Broad inventory and additional sizes available with low minimums. Choose the optimum combination for the specific application.

**Materials**: stainless steel, NCS, standard steel (options for seals, shields, open)

**Lubricant choices**: greased, solid lubricated, vacuum-grade

**Radial ball bearings**

- Choose material that is sealable and may have one side open.

**Open bearing sized with (lube)**

- Open bearing assembled with lube.

**Graphite lubrication works without seals (NCS shown)**

- Solid lubricants are good alternatives in severe service environments, but speed capacity of solid lubricated bearing is lower than greased bearings.

**Graphite Solid Lubricant Selection Guide**

<table>
<thead>
<tr>
<th>Polymer Type</th>
<th>J</th>
<th>H</th>
<th>K</th>
<th>B</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temp</td>
<td>+40° to 180°F</td>
<td>+60° to 350°F</td>
<td>+60° to 500°F</td>
<td>+40° to +4°F</td>
</tr>
<tr>
<td>Fixed contact</td>
<td>H1 - incidental</td>
<td>H2 - non-contact</td>
<td>H1 - incidental</td>
<td>H1 - incidental</td>
</tr>
</tbody>
</table>

**Polymer Solid Lubricant Selection Guide**

<table>
<thead>
<tr>
<th>Polymer Type</th>
<th>W</th>
<th>M</th>
<th>T</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temp</td>
<td>250° to +250°F</td>
<td>122° to 233°</td>
<td>233° to 345°C</td>
</tr>
<tr>
<td>Fixed contact</td>
<td>H1 - incidental</td>
<td>H1 - incidental</td>
<td>H1 - incidental</td>
</tr>
</tbody>
</table>

**Graphite Solid Lubricant Selection Guide**

- Solid lubricants are good alternatives in severe service environments, but speed capacity of solid lubricated bearing is lower than greased bearings.

**Use CAUTION when considering ball bearings in these applications:**

- Oscillating or intermittent motion
- Submerged
- High load with low speed
- High- or low- temperatures
- Frequent start-stop

Lubrication is less effective in these conditions, and Class III polymer plane bearings may be better suited in these applications. For more about EDT PLANE BEARINGS, refer to page 2.

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**Materials**

- Stainless steel: 300-series stainless ball bearings offer more corrosion resistance than 400-series stainless inserts. Choice of food grade grease or solid lubricated.
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**Lubrication Alternatives**

When grease is part of the problem of keeping equipment with ball bearings running smoothly, and when the best style of bearing for the application is a ball bearing, EDT offers a selection of solid lubricants to replace grease. Solid lubricants can be installed in many styles of rolling-element bearings.

**Polymer solid lubricants** involve oil that is incorporated into a porous polymer matrix with other additives. When balls roll, oil lubricates them, and when the bearing stops turning, excess lubricant is reabsorbed into the polymer. Whenever possible and appropriate, EDT installs seals and fingers. Optional “open” bearings reveal the solid lubricant; shielded bearings may have one side open.
EDT Solution® Housings

EDT manufactures bearing housings especially for severe service environments; the surface finish is smoother than other brands, and there are fewer cavities— all to reduce locations that can harbor bacteria. Sanitation and clean-ability features have earned EDT Solution® housings USDA/NSF acceptance. Whether made of 304 or 316 stainless or K-Engineered polymer, EDT housings can be long-term assets, reused many times. Solution® housings dimensionally interchange with industry standard bearing housings and accept bearing inserts from EDT as well as other brands.

Stainless or Polymer Housings
- Available in all styles and sizes
- Accepts bearings by all manufacturers
- Non-corrosive
- Ideal for HACCP/HARPC programs
- Stock shaft sizes 1/2” to 3-3/16”
- Non-magnetic
- Abrasion resistant
- Custom units (materials, styles) available

Stainless Steel and Polymer Housing Styles
Styles available (not all are shown):
- Pillow block (standard & low backing)
- Tapped base
- 2-bolt flange (standard & small pattern)
- 4-bolt flange (standard & small pattern)
- 3-bolt flange (extension & round)
- Take up (narrow & wide slot)
- Piloted
- Hanger (stainless only)

Stainless Steel Housings

Polymer Housings

Polymer Temp Range:
-40°F to 150°F/-40° to 65°C

Stainless Temp Range:
Cryogenic to +1,000°F/540°C

Split Housings and Split Bearings
- Reduce maintenance time with easier access to bearings
- Solid construction for maximum cleanability and strength
- Accepts inserts by most manufacturers
- Options of 1-piece or split Poly-Round® and 1-piece or split locking sleeve
- Housing and sleeves are designed for reuse
- Poly-Round® life can be doubled by rotating insert 180° after the wear is too far in one direction

Custom Housings
- Made-to-order housings and bearings
- Available polymer and stainless steel
- Designed to your unique requirements
- No minimums
- Private labeling available
**Specialty Bearings**

EDT has developed drop-in replacement bearings for many applications. These bearings have demonstrated longer life, all while reducing maintenance and lowering cost of ownership.

### Breader Bearing
- **QuikClean® Solution** allows for ongoing removal of solid contamination.
- Includes backing plate; food-grade exclusionary seal.
- Housing can be re-used.
- Stainless steel ball bearing is corrosion-resistant; solid lubricant eliminates grease and the need to re-grease.

### The Glove
- **Glove® 2** is a self-contained assembly for multiple style retrofits.
- USDA/NSF acceptance
- Good inventory available of 3” to 24” travel, shaft sizes from 5/8” to 2” and metric
- Narrow slot weld-on style for highest level of sanitation
- Cost of each bearing (A+B)

### Take-up Frames
- 300-series stainless steel frame and hardware for maximum corrosion resistance
- Sanitary and easy to clean for HACCP/HARPC programs
- Accepts take-up bearings by EDT and other manufacturers
- Wide and narrow slot bolt-on style
- Narrow slot weld-on style for highest level of sanitation
- Good inventory available of 3’ to 24’ travel, shaft sizes from 5/8” to 2” and metric
- USDA/NSF acceptance

### Cost of Ownership Example

<table>
<thead>
<tr>
<th>Item Description</th>
<th>Original Equipment</th>
<th>EDT Breader Bearing</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>PEELER BREADER</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A. Initial cost of bearing</td>
<td>106.00</td>
<td>389.00</td>
</tr>
<tr>
<td>B. Installation labor ($2/hr) (53/minute) x 1 hour</td>
<td>32.00</td>
<td>32.00</td>
</tr>
<tr>
<td>C. Cost of each bearing (A+B)</td>
<td>138.00</td>
<td>421.00</td>
</tr>
<tr>
<td>D. Replacement bearing inserts in 1 year</td>
<td>69.00</td>
<td>176.00</td>
</tr>
<tr>
<td><strong>GLOVE® G2</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A. Initial cost of bearing</td>
<td>190.00</td>
<td>650.00</td>
</tr>
<tr>
<td>B. Installation labor ($2/hr) (53/minute) x 1 hour</td>
<td>32.00</td>
<td>32.00</td>
</tr>
<tr>
<td>C. Cost of each bearing (A+B)</td>
<td>222.00</td>
<td>682.00</td>
</tr>
<tr>
<td>D. Replacement bearing inserts in 1 year</td>
<td>935.00</td>
<td>192.00</td>
</tr>
<tr>
<td>E. Bearing and installation costs in 1 year (C + D1)</td>
<td>1,073.00</td>
<td>610.00</td>
</tr>
<tr>
<td>F. Lubrication 5 days per week x 52 weeks/year = 260 (Cost at $0.025/ounce)</td>
<td>110.00</td>
<td>0</td>
</tr>
<tr>
<td>G1. Year 1: total cost to buy and maintain each bearing (E+F)</td>
<td>1,203.00</td>
<td>613.00</td>
</tr>
<tr>
<td><strong>Savings after year 1</strong></td>
<td><strong>$590.00</strong> per bearing</td>
<td></td>
</tr>
<tr>
<td>G2. Year 2: total cost to buy and maintain each bearing (E+F)</td>
<td>1,203.00</td>
<td>613.00</td>
</tr>
<tr>
<td><strong>Total Year 1 + Year 2 costs each bearing (G1 + G2)</strong></td>
<td><strong>$2,406.00</strong></td>
<td><strong>$997.00</strong></td>
</tr>
<tr>
<td><strong>Savings after year 2</strong></td>
<td><strong>$1,409.00</strong> per bearing</td>
<td><strong>$11,272.00 savings</strong></td>
</tr>
</tbody>
</table>

### Peeler/Scrubber Bearings
- Designed especially to operate in the wet/discharge end of the machine (caution: NTE 350 rpm)
- Polymer bearings typically last one full season with zero maintenance
- Replace components individually as they wear

### Weigh Scale Buckets
- EDT polymer and stainless steel bearing links, rod ends and radial bearings directly replace original equipment weigh scale components with NO grease and NO rust. The advantage is reliable operation without contamination, and reduced maintenance cycles. EDT has designed some Yamato scale retrofit parts to combine the radial bearing plus additional parts (washers or bushings), which further reduces inventory and bucket rebuild costs.

### Oven and Dryer Bearing Solution
- Fixed end includes stainless split collar
- Floating end accommodates up to 6.5” expansion
- Grease-less

### Block Bearing Solution
- USDA/NSF approved
- Dimensionally interchangeable with industry standard mounted bearings
- Well-suited for high-impact areas where misalignment is not critical
- Available in materials PA, AA, NA (see page 2 for material specs)

### Fryer Bearing Solution
- Maintenance free, no lubrication
- Corrosion resistant materials extend bearing life
- Lowest cost of ownership
- Reduced collateral damage
- Housing is reusable
- Materials are direct food contact approved and high temperature capable; ideal in hot oil, water or chemicals.
Selecting EDT Bearings for Severe Service Environments

IDEAL LOCATIONS

**TYPE OF EDT BEARING**

**Class III**

- Modular plastic belt conveyors
- Wire belt conveyors
- Idler rollers
- Ovens
- Pasteurizers
- Sizers
- Fillers and cams

**Plane Bearings**

- Poly-Round®
- Poly-Sphere®
- All-Round®
- EDT Type E Solution®
- Radial Poly-Round®

**Ball Bearings**

- High speed shafts including fans, motors, table-top conveyors
- Vibration/Impact
- Abrasive Material
- Chemical
- Submersed in liquid
- Support to an object (e.g., unsupported shaft)
- High speed shafts
- Overhung loads (ex: unsupported shaft-mounted gear reducers)
- Sizers
- Shower heads
- Tensioned flat belt conveyors
- Fryer paddles
- Freezers
- Dumpers
- Wire belt conveyors

**CAUTION Plane bearings are NOT well suited to locations with:**

- Flat belt conveyors (rubber, pvc, fabric belts)
- Curved table-top conveyors
- High speed shafts
- Trunnions
- Overhung loads (ex: unsupported shaft-mounted gear reducers)

**CAUTION** Plane bearings should be used when:

- Places where grease is a contaminant
- Sanitary and direct food contact locations
- Corrosive locations
- High or low temperatures
- Start stop operations or infrequent motion
- Partial rotation or oscillating motion
- Difficult to maintain locations

In these kinds of applications, ball bearings are recommended.

**EDT GUARANTEE**

EDT Poly-Round® Solution® plane bearings in smooth, strong, sanitary housings offer a grease-free, clean, non-rusting alternative to rolling element bearings. As a result, maintenance time and costs are reduced, and UP-time is improved.

On sprocket-driven modular plastic and wire belt conveyors, EDT GUARANTEES the NA Poly-Round® to last 1 year, or EDT will replace it with the bearing of your choice.

When wear in one direction is too extensive, the insert can be rotated 180° to extend the bearing life.

**BEARING DESIGN CHECKLIST (BDC)**

Reference Project: __________________________ Date: __________

Application Data

- Do any of these conditions exist?
  - Modular Belt
  - Screw Auger
  - Overhung Load
  - Trunnion
  - USDA/FDA Inspection
  - Direct Food Contact
  - Direct Food Contact
  - Wash Down
  - Submersed
  - Chemical
  - Abrasive Material
  - Vibration/Impact

- What type of drive is being used?
  - Roller Chain
  - Direct Coupled
  - Timing Belt / HTD Belt
  - V-Belt
  - Line Shaft
  - Hydraulic Motor
  - Slave Drive
  - Variable Frequency Drive
  - Supported Shaft
  - Mount Reducer
  - Unsupported Shaft
  - Mount Reducer
  - Idler

Bearing fan:
- New machine
- Retrofit

How long is current bearing lasting? (Estimated life)
- Weeks: __________
- Months: __________
- Years: __________

Is a drawing of current system available?
- Yes __________
- No __________

Suspected cause of failure:

Will existing housing be re-used?
- Yes __________
- No __________

Has a plane bearing been tried previously?
- Yes __________
- No __________

Material or brand:

Describe the application:

(If completing this checklist with bearing performance questions)

Has anything about your operation or the environment changed in the past few months?

EDT Corp | Phone: 360-574-7294 or 800-810-7110 | Fax: 360-574-3834 | edtcorp.com | Email: edtsales@edtcorp.com 0314

**Application Data**

<table>
<thead>
<tr>
<th>Material or brand:</th>
<th>Description of application:</th>
</tr>
</thead>
</table>

**Bearing Data**

- Shaft Diameter: __________
- Shaft RPM: __________
- Estimated Load/Bearing: __________
- Temp. around bearing: __________
- Shaft direction: Horizontal __________
- Type of motion: Radial motion __________
- Expansion: __________
- Intermittent: __________
- Reversing: __________
- Frequent start/stop: __________
- Self-alignment required?: Yes __________
- No __________
- Split housing required?: Yes __________
- No __________
- Part # of existing bearing: __________
- Style of housing: __________

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When wear in one direction is too extensive, the insert can be rotated 180° to extend the bearing life.

**CAUTION** Plane bearings are NOT well suited to locations with:

- Flat belt conveyors (rubber, pvc, fabric belts)
- Curved table-top conveyors
- High speed shafts
- Trunnions
- Overhung loads (ex: unsupported shaft-mounted gear reducers)

In these kinds of applications, plane bearings should be considered.

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