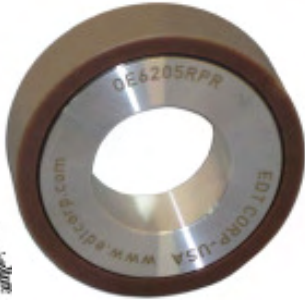




Severe Service UNMOUNTED RADIAL BEARINGS




Radial Poly-Round® bearing
Polymer grease-less bearing



Ball bearings
Variety of products for different environments

Radial bearings for sanitary, corrosive, and extreme temperature environments

When environmental conditions prematurely fail conventional unmounted ball bearings, consider EDT radial bearings

- Physically interchange with industry standard radial bearings
- Available in inch and metric sizes
- Wide range of products to address many conditions
 - Radial Poly-Round® 
 - Stainless ball, greased or solid lubricated
 - Non-corrosive treated steel "NCS" with solid lubrication
 - Steel with high temperature solid lubrication



edtcorp.com edtsales@edtcorp.com	EDT CORP 1006-J NE 146th Street Vancouver, WA 98685	PHONE 360-574-7294 FAX 360-574-3834
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RADIAL BEARING ALTERNATIVES for severe service locations



Radial Poly-Round® (RPR) applications

- Low or moderate speed and load applications
- Incomplete rotation
- Light duty plastic belt or roller conveyors
- Highly corrosive applications (choose bearing material based on environment)
- Submerged locations
- Sanitary requirements where lubrication is problematic or where wash-down is frequent
- High impact locations (choose bearing material based on environment)

Advantages of RPR®s

- Eliminate product contamination from grease or rust
- Extend maintenance cycles for lower cost of ownership
- Reduce production shutdown from bearing failure
- USDA Accepted 

**APPLICATIONS where
PLANE BEARINGS should be AVOIDED**

Plane bearings are not recommended for:

- High speed devices (fans, pumps, curved table top conveyors)
- High tension applications (V-belt drives, flat belt conveyors, urethane belts)
- Overhung loads (shaft mounted gear reducers)
- Trunnion applications
- Applications where centerline positioning is critical

In any of these kinds of applications, select a ball bearing

Ball Bearing applications

- High tension applications (V-belt drives, flat belt conveyors, urethane belts)
- High speed devices (fans, pumps, curved table top conveyors)
- Overhung loads (shaft mounted gear reducers)
- Trunnion applications
- High-precision installations requiring precise centerline location

Advantages of ball bearings over plane bearings

- Low friction
- High speed
- Precision centerline maintenance
- Trunnions
- High tension

**APPLICATIONS where
ROLLING ELEMENTS should be AVOIDED**

Ball bearings are not recommended for:

- Intermittent or oscillation motion
- High load with low speed
- Frequent start-stop
- Incomplete rotation
- Applications where the lubrication is compromised*
- Locations in the presence of salts or chlorine

*In applications that require ball bearings, and where the integrity of the grease is compromised, consider using solid lubricated ball bearings.

In any of these kinds of applications, select a plane bearing product: a Radial Poly-Round®

Radial Bearing Part Numbering

OE F 6000 RPR

RPR suffix indicates EDT's exclusive Poly-Round® bearing

MODIFIER

- X2 indicates RPR width is equal to that of 2 (two) single radial bearings
- 1 indicates width is equal to open ball bearing (refers to R-series radials)
- 2 indicates width is equal to seal/shielded ball bearing (refers to R-series radials)
- J indicates white solid lubricated
- W indicates black solid lubricated, temperature range -250 to +250 deg F
- WP is same as above with additional moisture resistance
- M indicates black solid lubricated to +450 deg F
- MP is same as above with additional moisture resistance
- R indicates black solid lubricated to +500 deg F
- T indicates black solid lubricated to +650 deg F

RADIAL BEARING industry standard nomenclature for radial bearing being interchanged

Example: 6000

Bore size

00 indicates 10 mm ID	05 indicates 25 mm ID
01 indicates 12 mm ID	06 indicates 30 mm ID
02 indicates 15 mm ID	07 indicates 35 mm ID
03 indicates 17 mm ID	08 indicates 40 mm ID
04 indicates 20 mm ID	

Series cross section (18, 19, 0, 1, 2, 3, 4)

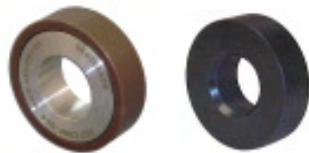
Type 1, 3, 5, 6, 7, 9

R_ and 16__ series are inch measured units

VARIATION (when indicated) F = flanged style unit

MATERIAL 2 letters: indicator of polymer bearing material (refer to Material Selection Chart, below) (additional materials may be applied for unique applications)

- ZA stainless steel ball bearing
- ZC non-corrosive treatment over steel ball bearing
- ZF steel (industry standard 52100 material) ball bearing



Plane bearings
Radial Poly-Round® and cylindrical Poly-Round®



Ball bearings
stainless with standard grease stainless with white solid lubricant NCS treated with black solid lubricant stainless with black solid lubricant

Radial Poly-Round Material Selection Chart

Radial Poly-Rounds® may be made of various high performance polymers to best fit the application
Due to the small length-to-diameter ratios of unmounted bearings, useful PVs are lower in RPRs than in mounted bearings.

Radial Poly-Round® bearing materials	RPR PV Limit	Max Speed V (SFM)	Max Loading P (PSI)	Continuous Operating Temp.	Performance in Moisture		Δ T Dimensional Stability with Temp Change	Chemical Resistance	Abrasion Resistance	Impact Resistance	USDA/FDA Contact Acceptance
					Washdown	Submerged					
QF black	15,000	400	1,500	500°F	Excellent	Excellent	Excellent	Excellent	Abrasion applications are unpredictable. Each application must be tested for abrasion resistance.	Fair	Incidental
OE brown or black	1,500	350	250	160°F	Excellent	Good	Good	Fair		Fair	Incidental
NA grey	1,500	350	500	200°F	Excellent	Good	Good	Fair		Excellent	Incidental
FA white	1,500	350	250	500°F	Excellent	Excellent	Poor	Excellent		Excellent	Direct

**EDT has the widest choice of radial bearing alternatives
– something for almost all hostile environments**



Radial Poly-Round® bearing:
316 stainless + high performance polymer Greaseless!

FOR DESIGN ASSISTANCE

Complete a Bearing Design Checklist (BDC) page Q-5 or at www.edtcorp.com



Successful EDT Radial Poly-Round® RPR applications include:



- Guides and wheels
- Oven and freezer idler rolls
- Wash-down duty machinery
- Poultry rehanger
- Ice rakes
- Rollers (low- and medium- speed)
- Dancer bars on packaging machines
- Parts washers
- Robotic linkages



Successful EDT radial ball bearing applications include:

- Exhaust fans
- High speed idler rolls in ovens and freezers
- Refrigeration fans
- High-temperature, high-torque chain tensioners
- Urethane belt food processing equipment



