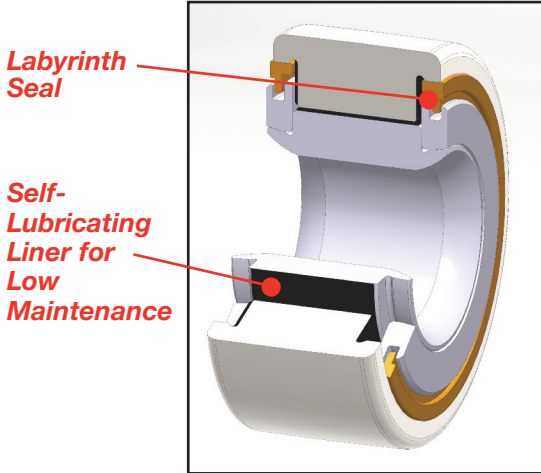


# RBC Aerospace Bearings

## RBC Track Roller Design Solutions

**Self-Lubricated and Rolling Element Bearings**  
55 years on the wings of the world's large and small aircraft



### Configurations

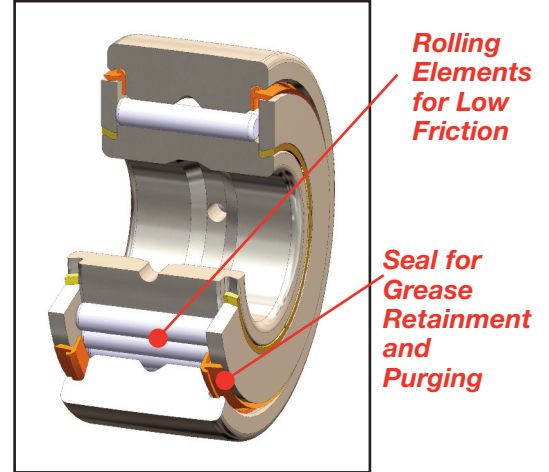
Yoke and Stud  
Rollers, Specials

### Materials































RBC Aerocres®, 17-4PH,  
ToughMet®, 13-8PH,  
15-5PH, Custom 455,  
Nitronic 60, XD-15NW,  
52100, 440C...

### Applications

**Wings:** Leading Edge Slats,  
Trailing Edge Flaps  
**Doors:** Service, Cargo,  
Landing Gear



## Track Roller Quick Comparison

Characteristic/Requirement	Self-Lubricated	Needle Roller
Wear	 	  
Load Capacity	  	 
Size/Weight	  	 
Friction	 	  
Cold Temperature Performance		  
Reduced Maintenance*	  	  

\*Both products are 5-year maintenance free. Needle Roller bearings can remain on the aircraft for the life of the airframe with 5-year grease intervals. Self-Lubricated bearings will need to be replaced due to wear. Replacement frequency varies with the application.

 = Good

  = Better

   = Best

**RBC is the only company that offers a full range of track roller solutions: self-lubricated and rolling element. You can rely on us to provide you the best solution for your specific application.**

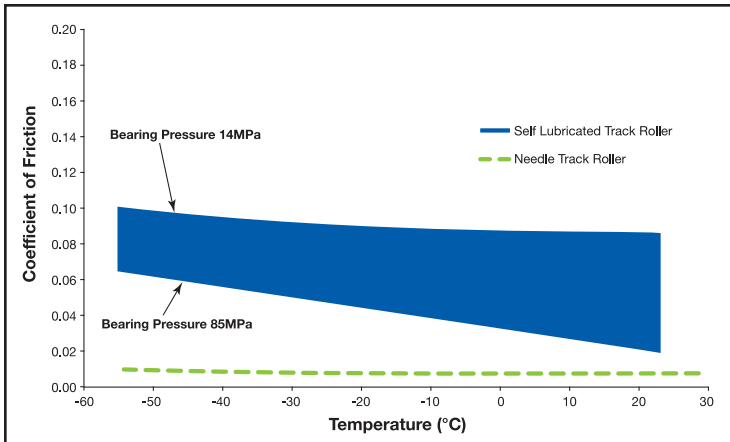
ToughMet® is a Registered Trademark of Materion Brush, Inc.

# RBC Aerospace Bearings

## RBC New Product: Self Lubricated Track Rollers

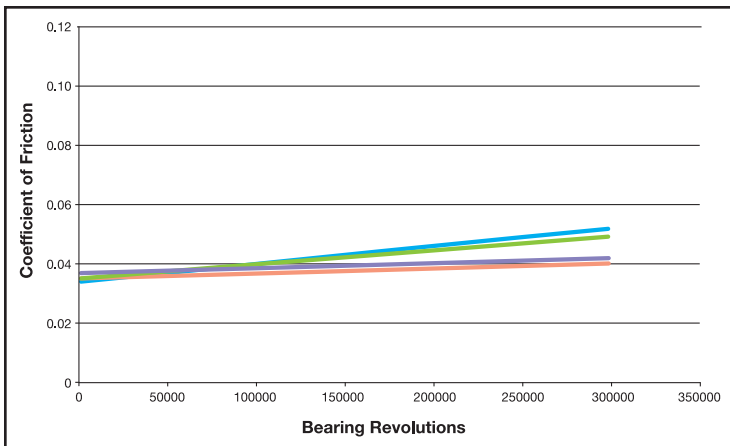
RBC has performed thousands of hours of testing on self-lubricated track rollers and passes the stringent aircraft qualification requirements of a growing number of customers.

Self Lubricated Track Roller  
Coefficient of Friction vs. Temperature

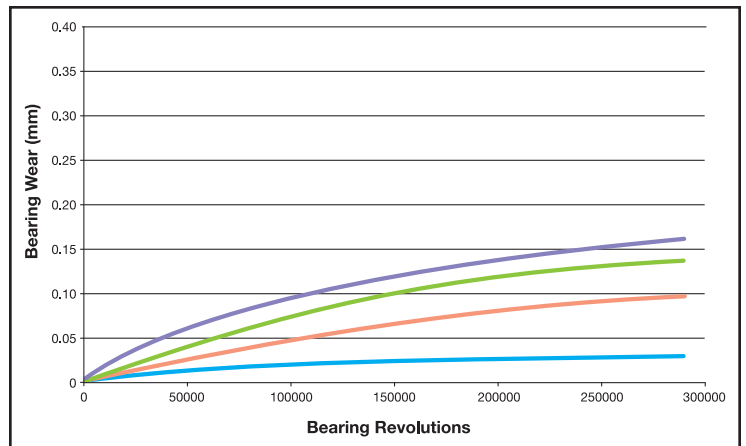


RBC Self-Lubricated Track Rollers exhibit very low friction for a wide temperature range at both high and low loads and pressures.

Self Lubricated Track Roller Friction over Lifetime\*



Self Lubricated Track Roller Wear over Lifetime\*



### Liquid Contaminants

— Non Contaminated — Cleaning Fluid + Water — Deicing Fluid + Water — Skydrol LD4

\*55 MPa Liner Pressure Results shown for RBC's Homogenous Liner System

### RBC Self-Lubricated Track Rollers:

- Resist contamination effects for long term service in aircraft.
- Regardless of the contaminant applied, continue to perform with low wear rates and consistent friction over the product lifetime.



866.rbc.aero

www.rbcbearings.com

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