

## **Product / Application Highlight**

With the increase of precision machine technology the demand for specialized bearings that provide high performance and improved running life has increased substantially. There is a growing need for solutions that provide corrosion resistance in applications operating in demanding environments while meeting tough regulatory guidelines. The Food Processing & Pharmaceutical industries are examples where bearings & power transmission components are required to operate in caustic environments or in applications that have strict wash-down and cleanliness requirements.

TRITAN has a wide range of specialized products that meet these unique demands. These products are suited for a wide variety of Food Processing & Pharmaceutical applications including:

### **Food Processing Applications:**

- Canning
- Bottling
- Fish Processing
- Food Packaging
- Industrial Rendering
- Meat Packing
- Slaughter House
- Sugar Processing
- Poultry Processing
- Bakery & Snack Foods
- Egg Processing



### **Pharmaceutical Applications:**

- Producing
- Processing
- Grinding
- Packaging
- Granulation
- Milling
- Compression
- Dispensing



**US Corporate Headquarters:**  
2100 Pacific Street,  
Hauppauge NY, 11788



**Email:** [sales@tritanpt.com](mailto:sales@tritanpt.com)  
**Phone:** 800-645-5088  
**[www.tritanpt.com](http://www.tritanpt.com)**

## Food & Pharmaceutical Solutions for Caustic & Wash-Down Applications

### TRITAN Stainless Steel Radial Ball Bearings

With inner rings, outer rings & balls constructed of AISI440C martensitic stainless steel and AISI304 austenitic stainless steel for retainers, and seals/shields, these bearings provide the ultimate corrosion resistance in humid & caustic environments.

TRITAN Stainless bearings are lubricated with a multipurpose FDA food approved grease and are suitable for a wide variety of standard and specialized applications.



#### Special Features:

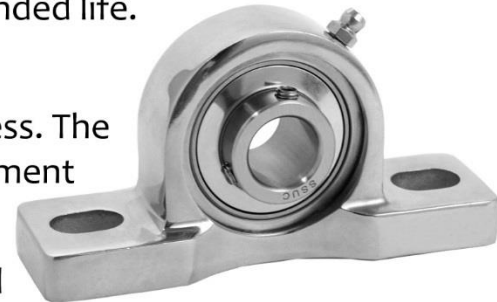
- High resistance to corrosion
- High stability in high temperature
- High resistance to chemicals
- Lubricated with FDA Food Approved Grease

### TRITAN Stainless Mounted Units

TRITAN Stainless Steel mounted units offer the highest level of corrosion resistance and are ideal in applications that require robust strength and durability while operating in caustic or wash-down environments, providing excellent wear and extended life.

Housings are constructed of 304 grade stainless steel and are hand-polished to minimize excessive pitting and surface roughness. The solid base design eliminates gaps and crevices that act as entrapment points in competitors' products.

These all Stainless units are equipped with TRITAN Stainless steel inserts. The rings and balls are constructed of AISI 440C martensitic stainless steel and retainer, slinger & seal frame and the set screws are constructed of AISI 302 austenitic stainless. The inserts are lubricated with H1 USDA/FDA Food Grade grease



They are directly interchangeable with conventional cast iron housings, as well as, competitors higher priced thermoplastic and stainless/chrome hybrid design units.

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### TRITAN Thermoplastic Mounted Units

TRITAN Thermoplastic Mounted Units offer an economic solution with a high level of corrosion resistance, and are ideal for a wide variety of wash-down applications.

Housing Material is a Reinforced PBT (Polybutylene Terephthalate) that provides extreme low water absorption, and exceptional dimensional stability. With excellent resistance to chemical attack and high environmental stress crack resistance, these units provide excellent wear properties. Housings are supplied with seamless stainless bushings and zerk fitting.



These Thermoplastic units are equipped with TRITAN Stainless steel inserts. The rings and balls are constructed of AISI 440C martensitic stainless steel and retainer, slinger & seal frame and the set screws are constructed of AISI 302 austenitic stainless. The inserts are lubricated with H1 USDA/FDA Food Grade grease.

They are directly interchangeable with conventional cast iron housings, as well as, competitors' higher priced thermoplastic and stainless/chrome hybrid design units.



### TRITAN Hybrid Mounted Units

In addition to the all Stainless and Thermoplastic units, TRITAN produces hybrid units on a made-to-order basis for specific application requirements. These hybrids include combinations that include not only traditional chrome and stainless inserts, but also Hard-Chrome coated and Black oxide treated inserts, with a variety of housing materials including nickel plated.

These hybrid units provide an economical solution for mildly corrosive environments.

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## Food & Pharmaceutical Solutions for Caustic & Wash-Down Applications

### TRITAN Stainless Steel Insert Bearings

TRITAN also supplies the full range of Stainless Steel insert bearings. The rings and balls are constructed of AISI 440C martensitic stainless steel and retainer, slinger & seal frame and the set screws are constructed of AISI 302 austenitic stainless. The inserts are lubricated with FDA Food approved grease, and provide an excellent solution for wash-down and or corrosive environments.



TRITAN also produces on a made-to-order basis both Hard Chrome Coated and Black Oxide treated inserts for an economical solution in mildly corrosive environments.



### TRITAN Precision Roller Chain

To address the power transmission needs in the food processing and pharmaceutical industries, TRITAN also produces corrosion resistant precision roller chain from 25 (1/4 inch) pitch to 120 (1 1/2 inch) pitch.

**TRITAN Dacromet Coated Roller Chain** is the perfect choice where corrosion resistance and high strength is needed. Designed to provide maximum resistance to harsh environments, including salt water, fertilizer, and chemical wash-down, that is far superior to Nickel Plated, while maintaining the strength and durability of carbon steel chain. See the below table for a comparison of chain strength and corrosion resistance.

Dacromet chain is not recommended in applications where chain may come into contact with food. TRITAN always recommends using stainless steel if food contact is possible.



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## Food & Pharmaceutical Solutions for Caustic & Wash-Down Applications



**TRITAN Stainless Steel Roller Chains** are used in highly corrosive and high temperature environments. Constructed of 300 grade stainless this chain offer optimal performance in caustic & wash-down applications. See the below table for a comparison of chain strength and corrosion resistance.

**TRITAN Nickel Plated Roller Chain** provides an economic, high strength solution in mildly corrosive environments. While maintaining the strength of standard carbon steel roller chain, the nickel plating will improve overall life in a wide variety of applications. See the below table for a comparison of chain strength and corrosion resistance.



Type	Carbon Steel	Nickel Plated	Dacromet	Stainless
Strength / Load	Excellent	Excellent	Excellent	Fair
Corrosion Resistance	Poor	Fair	Good	Excellent

### Special & Made-to-Order Bearings

For applications that do not require corrosion resistant solutions, TRITAN also offers special and made-to-order bearings that meet the needs of specific food and pharmaceutical applications. Examples include RX84 bearings used in the citrus industry, and W300PPNRGH (J) series with the special oil hole and groove used in cannery applications. (shown on right).



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