



# Reduced Maintenance PN Gold Bearings

## CRBFTRS-PN24T-RMW

### APPLICATION

Brewery

### SOLUTION TYPE

Maintenance Cost Savings

### DESCRIPTION OF PROBLEM

A large brewery was experiencing unplanned downtime and lost production due to unforeseen bearing failure - typical bearing life was less than six months. It was determined bearings were failing due to corrosion and excessive re-lubrication.

### SEALMASTER<sup>®</sup> SOLUTION

Sealmaster Reduced Maintenance PN Gold Bearings with stainless steel housings, bolt on end caps and back side shields were recommended to replace the current bearing design. Sealmaster reduced maintenance bearings with tapered lands for improved oil flow into the ball path have a phosphorous nickel coated raceway to help prevent corrosion and a high performance triple lip seal to prevent water from entering the bearing. These reduced maintenance bearings do not require any additional re-lubrication.

### KEY CUSTOMER NEED(S) AND BENEFITS FROM SEALMASTER PRODUCTS

The brewery needed to increase bearing life and prevent corrosion. By switching to the Sealmaster PN Gold Reduced Maintenance Bearings, bearing life was extended from six months to eighteen months without failure. The result was a \$30,000 estimated annual cost savings on this particular line.



# Reduced Maintenance PN Gold Bearings

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PN Gold bearings feature a high phosphorus, electroless nickel coated steel insert and a patented, triple lip/multi-directional high performance seal. Specially engineered for industries with corrosive washdown environments such as food and beverage, pharmaceuticals and chemical processing. The PN Gold mounted ball bearings provide outstanding performance in demanding corrosive environments.

## COMPONENTS MATERIAL

- Housing: 316 Passivated Stainless Steel or High Strength Composite
- Bearing Races: High Phosphorus Electroless Nickel Plated 52100 Steel
- Balls: 440C Stainless Steel
- Retainer: Unique Metal Land Riding Retainer
- Seal: High Performance Seal (HPS)
- Set Screws: 300 Stainless Steel
- Grease Fitting: 303 Stainless Steel
- Grease: Sealmaster GoldPlex-FG



## FEATURES AND BENEFITS

- High Phosphorus Electroless Nickel Plating: Provides exceptional corrosion resistance.
- High Performance Seal (HPS): Triple lip multi-directional sealing with excellent chemical resistance.
- Wide Outer Race: Provides extra grease capacity.
- Zone Hardened Inner Race: Provides longer life and quieter operation, improved locking reliability.
- Unique Metal Land Riding Retainer: Corrosion resistant, improves lubrication circulation.
- Lock Pin and Dimple System: Provides direct lubrication path and +/- 2° static misalignment and prevents outer race rotation.

**SEALMASTER**®

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### APPLICATION CONSIDERATIONS

The proper selection and application of power transmission products and components, including the related area of product safety, is the responsibility of the customer. Operating and performance requirements and potential associated issues will vary appreciably depending upon the use and application of such products and components. The scope of the technical and application information included in this publication is necessarily limited. Unusual operating environments and conditions, lubrication requirements, loading supports, and other factors can materially affect the application and operating results of the products and components and the customer should carefully review its requirements. Any technical advice or review furnished by Regal-Beloit America, Inc. and its affiliates with respect to the use of products and components is given in good faith and without charge, and Regal assumes no obligation or liability for the advice given, or results obtained, all such advice and review being given and accepted at customer's risk.

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