Maintenance Cost Saving in Bearing Applications

Hannover Messe - Bearing Conference

April 5, 2019

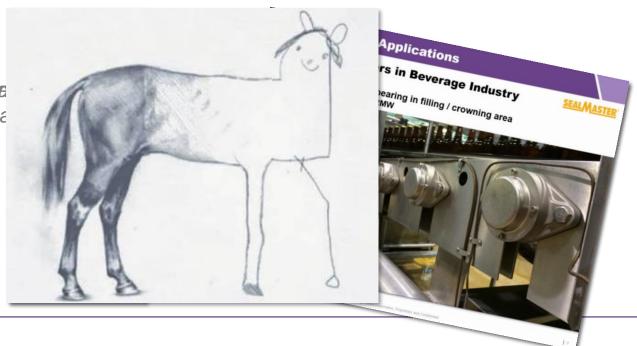
Steve Quintijn Marketing Manager Bearings EMEA



Why would OEM's change a bearing supplier

- ✓ To solve a problem
- ✓ To make an improvement
- ? To get the lowest price

"These Sulta was sae \$ 320.00 de la le la saovint le sa







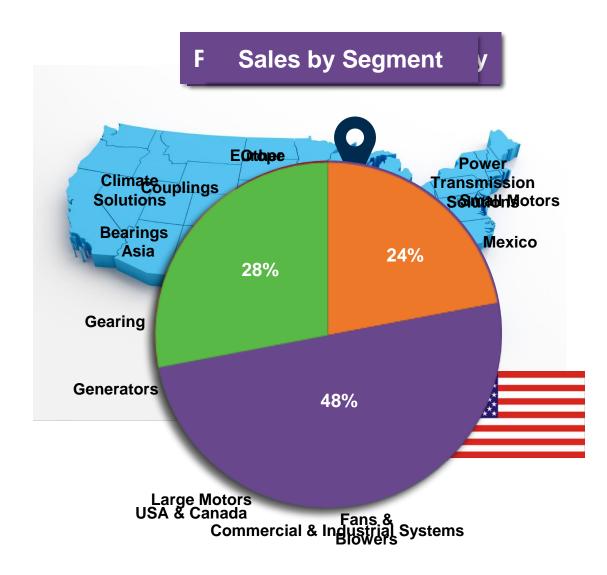
Regal Overview

Founded in 1955 with Headquarters in Beloit, Wisconsin USA

2018 Sales of \$3.6B

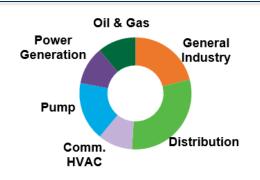
Global Manufacturing Footprint

Leader in High Efficiency
Motors and Power
Transmission Systems



Segment End Markets, Products & Brands

Commercial & Industrial **Systems**











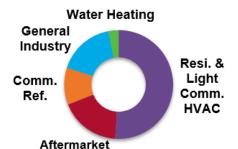
marathon™







Climate **Solutions**



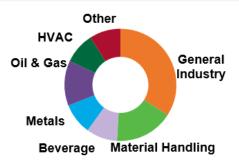








Power Transmission Solutions























Bearing Overview







MGILL®

ROLLWA4®

















Less dust than with acetal chains









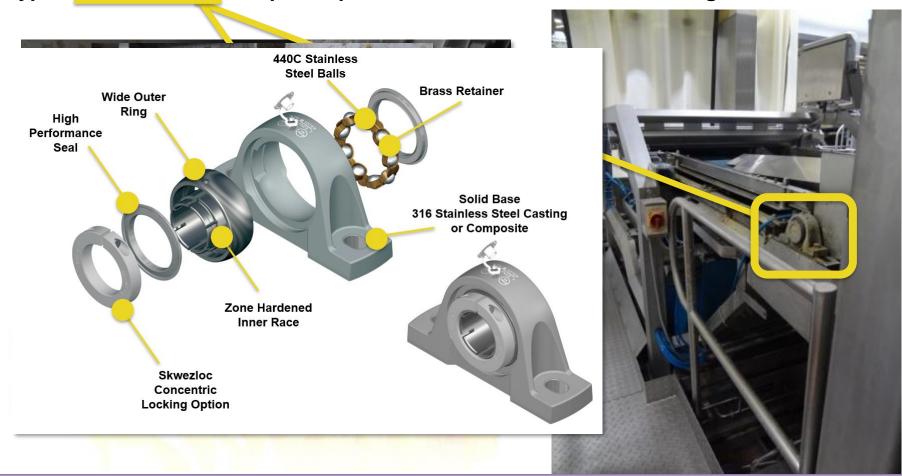
Industries & Applications

Optical potato sorter in Food Industry



PN Gold Pillow Block in potato chips plant

Type: CRPC-PN208T composite pillow block with SKWEZLOC locking collar





Industries & Applications

Bottle Conveyers in Beverage Industry



PN Gold RMW flange bearing in filling / crowning area Type: CRBFRS-PN208T RMW





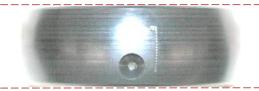
Creating a better tomorrow™...

Widest insert in industry





Standard bearing insert any brand.





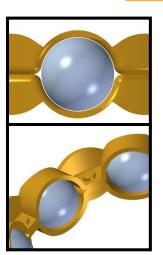
SealMaster Gold Line Insert is Over 20% Wider than Industry Standard Ones. This feature provides Increased Grease Capacity, and Better Sealing Options.



Optimized cage design



SEALMASTER®



Cage Design

- Superior pocket clearence
- Lubrication between rolling elements
- Patented design allows lubricant recirculation







Standard Cage Design

- Constant contact with rolling elements
- No lubrication can be built between rolling elements



High performance triple lip seal (HPS)





HPS Benefits

- Excellent Multi-directional Sealing, Favorable Wear Properties, Excellent Chemical Resistance and Good Speed and Drag Characteristics
- High Surface Finish and Non Corrosive to Prevent Seal Lip Wear. Flinger Directs Contamination Away From Sealing Surfaces
- Additional Barrier Against Contamination and Moisture





Typical 1C Design



PN Gold HPS Design

Skwezloc® Concentric Locking



- Initial Design and Patent: 1966 (for Sealmaster PN Gold™ Bearings)
- Maintains Ball Path Roundness
 - Minimal Vibration
 - Smoother, Quieter Operation
- **Near-Perfect Shaft Concentricity**
- Reduced Fretting Corrosion
- No Set Screw Burr Marring Shaft
- **Higher Speed Capability**
- Locks to Stainless Shafting
- Easy Installation

Creating a better tomorrow™...

- Flouropolymer Coated Collar
- Corrosion Resistant Coated Screw

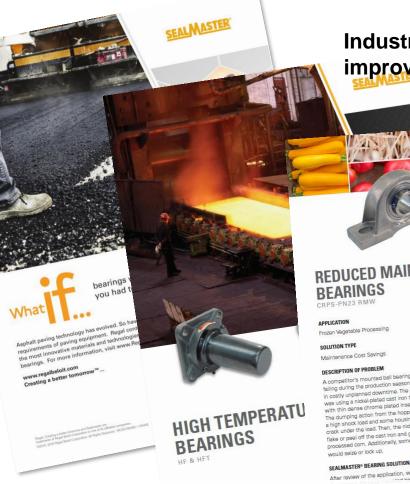




Skwezloc® Concentric Locking Collar



Seeing is believing



Industrial paving equipment bearings with improved sealing tecl steve.quintijn@regalbeloit.com

Service interval 4-5 months vs 1-2

These bearings support conveyor rolls that are designed to transport a variety of materials through

stainless steel housing or ovens

Ambient temperatureed Main 200 ace

version to eliminate the cost

of relubrication

REDUCED MAINTENACE PI

with thin dense chrome plated insert bearings The dumping action from the hopper caused a high shock load and some housings would crack under the load. Then, the nickel would flake or peel off the cast iron and get into the processed com. Additionally, some bearings

gw of the application, we selected a

SEALMASTER® S

APPLICATION

mounted ball be

KEY CUSTOMER FROM SEALMAS

The Sealmast

the competito

application by seasons and

This resulted

Recycling and waste conveyor

SOLUTION TYPE

Sealmaster gold line bearings

DESCRIPTION OF PROBLEM

A waste and recycling company had t imported mounted ball bearings on the lines every 1-2 months. The bearings dry, and gritty environment, resulting and unplanned downtime. After evaldetermined that the bearing seal an not standing up to the environment needed to obtain more impervious order to reduce downtime, increase increase overall efficiency.

SEALMASTER® SOLUTION

Sealmaster PN Gold

SEAL Mounted ball bearing last

TAPERED ROLLERS WILLIAM RPB 215-Chree Season

APPLICATION Sand Conveyor

SOLUTION TYPE

Cost savings through increased uptime, maintenance labor and replacement part

E, 2-15/16 shaft size of the conveyor, were idditionally, the screw y caused bearing o compromised bearing

'pe E bearings. The RPB ne seal with a static

. The contact seal carninants from entering the bearing, increasing and dirty conditions kept uptime throughout the plant!

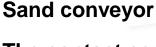
KEY CUSTOMER NEED(S) AND BENEFITS FROM SEALMASTER® PRODUCTS

PRODUCT/PART DESCRIPTION:

RPB 215-C2

The Sealmaster RPB tapered roller bearings have greatly increased bearing life and improved naintenance, replacement and downtime costs. according to customer feedba





The contact seal that is designed for wet and dirty conditions kept contaminants from entering the bearing, increasing uptime throughout the plant!

