Customer Analysis:

**Improved Bearing Design:**
Standun B3 Body Maker
Hold-Down Bearing

Simplified installation, reduced downtown along with extended life provide significant cost savings.

**INDUSTRY:** Beverage Production  
**APPLICATION:** Can Body Making  
**RBC PRODUCT:** RBY76850 Hold-Down Bearing

**TOTAL PLANT COST SAVINGS:** $172,800

**Application Overview**
- Mounted in the hold-down lever (2 per machine) - light oil lubrication used
- Bearing OD runs against bull gear cam at approximately 1200RPM
- Lever synchronization critical to prevent can tear off - controlled bearing RIC
- Original bearing design required tedious assembly of rollers into raceways

**Features, Benefits & Results**
- Simplified machine assembly due to a unitized bearing design
- An integral bearing inner raceway eliminates shaft wear and allows reuse of the original shaft
- Lower mass outer raceway reduces inertial forces, increasing bearing and cam life
- The three roller path design eliminates edge loading, extending the maintenance cycle
- 8X improvement in bearing life reported
- 2X reduction on tear off rates reported (.40 cans to .20 cans)

**Cost Reduction Overview (Est.)**

<table>
<thead>
<tr>
<th>Description</th>
<th>Cost</th>
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<tbody>
<tr>
<td>Total OEM Bearing R&amp;R Cost (includes new shaft, labor and lost production)</td>
<td>$3,160</td>
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<tr>
<td>OEM Shaft Replacement Savings</td>
<td>$800</td>
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<tr>
<td>Labor &amp; Lost Production Savings</td>
<td>$100</td>
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<tr>
<td>Total RBC Bearing R&amp;R Cost</td>
<td>$2,260</td>
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<tr>
<td>Reduction in Costs Per Station for 8X Longer Bearing Life</td>
<td>$7,200</td>
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<tr>
<td><strong>Total Cost Reduction</strong></td>
<td><strong>$172,800</strong></td>
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</table>

**Conclusion**

The new RBY76850 Standun hold-down bearing **significantly reduces maintenance costs** over the original OEM design. RBC would like to work with your plant to implement this cost savings solution.
RBC Bearings® has been producing bearings in the USA since 1919. In addition to unique custom bearings, RBC Bearings® offers a full line of industrial parts for the canning industry, including:

The RBC “Triple Threat®” of Necker Cam Follower Solutions! Which is right for your plant?
- The time-tested CRBC1-5/8 14 Long Life RBC Roller® Follower
- The proven Maintenance Free, BCF1-5/8 14 CT Ball Bearing Follower w/polymer outer
- *NEW* The Maintenance Free, BCF1-5/8 14 ST Ball Bearing Follower w/steel outer

Contact us to determine the best product for your particular operating conditions. RBC is providing engineered solutions to increase reliability for our canning industry customers!

The RBC unitized bearing solution for Standun B3 and B5 Body Makers simplifies installation and increases the hold down lever bearing life. No more loose rollers! Other features and benefits include:
- Addition of an inner ring - virtually no shaft wear - no more shaft replacements
- 3 roller paths – better load distribution - resistance to moment loads – no skewing or skidding damage
- Larger roller pitch circle – more rollers per path - lower outer ring mass - reduced inertial loads

This design is available with narrow or wide-width cam follower outers. Thrust washers included!
Contact us to discuss the reduced maintenance costs and improved can quality possible!

RBC Maintenance Free Solutions for Trimmers eliminates the need for relubrication and protects the cam from wear. New, improved sealing prevents coolant and washdown fluids from damaging the bearings. RBC Maintenance Free Ball Bearing Followers BCF1-1/2 10 CT and BCF1-3/4 10 CT are upgrades for OEM C20043 (McGill® CCF11/2SB) and C20044 (McGill® CCF13/4SB).

Climax Metal Products offers a keyless locking assembly that directly replaces the single nut bushing used to mount gears in the driveline of the necker. The screws on the Climax C192 Series KLD are easily tightened with a standard torque of 150 in-lbs. Compare this with the massive wrench and 409 ft-lbs. of torque required to tighten the single nut bushing supplied by the OEM and you will immediately understand the improved safety and ease-of-use this locking device provides to can makers.

**Specialty Cam Followers and Bearings for Canneakers:**

| Necker Cam Followers for Can Neckers | Spindle Disk Cam Followers for Rutherford Can Decorators | Special Bearings for Ragsdale Body Makers |
| RBC Roller® Cam Followers with two rows of cylindrical rollers offer superior life to Needle Roller Cam Followers. | Precision Dual-Race, Roller Cam Followers for improved life. | Special Combination Roller and Spherical Plain Bearings and Cam Followers for Ragsdale Body Makers. |
| Necker Yoke Rollers for ANC Can Neckers | Spindle Disk Cam Followers for Concord Can Decorators | Special Connecting Rod Bearings for Standun Body Makers |
| RBC Roller® Yoke Rollers with two rows of cylindrical rollers offer superior life to Standard Needle Roller Yoke Rollers. | Precision Dual-Race, Roller Cam Followers for improved life. Available in versions for rotary and interposer trip systems. | Special Spherical Plain Bearings with extended inner rings eliminate the need for spacers and simplify installation and removal. |

Concord, Ragsdale, Rutherford, and Standun are brands of Stolle Machinery.