**DELIVERING SIGNIFICANT COST SAVINGS**

**Features & Benefits**

**Split to the Shaft Bearing**
- Significant Cost Savings at time of Installation.
- Ease of Replacement.
- Reduces Downtime.
- Increases Maintenance Man-Hour Efficiency.

**Comprehensive Range of Mountings**
- Meets most application requirements from the standard range.
- Pedestals are available in steel, cast iron and ductile iron including: Flanges, Rod End Bearings, Take-up Bearings and Custom Bearings.

**Superior Concentric to the Shaft Sealing**
- Typical options include:
  - Triple Labyrinth, Felt and Lip Contact Seals.
  - Reduces Contamination.
  - Retains Lubrication for a Cleaner Working Environment.

**Full Service Manufacturer**
- Proven Range of Products.
- Vast Engineering Knowledge.
- Technical and installation support service.

**Established Organization**
- Global Distribution Network.
- Local Support Provided by Cooper and Distribution Partners.

Cooper also offers Made to Order Services for specific engineering solutions and a cost effective Bearing Reconditioning Service. Cooper bearings are completely accessible at all times for cost effective maintenance and maximum safety compliance on any type of application.

Inspection and preventative maintenance costs are kept to the minimum regardless of the application or bearing size.

**B E A R I N G  M O U N T I N G  O P T I O N S**

**PILLOW BLOCKS**
- Pillow Block Unit 1/16” to 24”/600mm
  - Available in cast iron, ductile iron or steel

**HANGER MOUNTINGS**
- Hanger Unit 1/16” to 5”/140mm
  - Available in cast iron

**TAKE UP AND ROD END MOUNTINGS**
- Take Up Tension 1/16” to 6’/155mm
  - Available in cast iron
  - Also offered as push type

**FLANGE MOUNTINGS**
- Rod End Shoe 1/16” to 6’/155mm
  - Available in cast iron
  - Also offered as tee type

**Square Flange Units**
- Round Flange Units 1/16” to 3”/75mm
  - Available in cast iron, ductile iron or steel

**BEARINGS AND SEALS COMPLETE**
YOU CAN PROVE IT FOR YOURSELF

Evaluate Your Own Cost Saving Potential Using Cooper Bearings

COST SAVING COMPARISON

<table>
<thead>
<tr>
<th>Typical Cost Savings Achieved at Time of Installation</th>
<th>Current Bearing</th>
<th>Cooper Bearing</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Cost of Bearing</td>
<td>$2,692</td>
<td>$8,076</td>
</tr>
<tr>
<td>2 Estimated Time of Bearing Change</td>
<td>24 hours</td>
<td>6 hours</td>
</tr>
<tr>
<td>3 Number of People to Replace Bearing</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>4 Maintenance Cost per Person, per Hour</td>
<td>$22.50</td>
<td>$22.50</td>
</tr>
<tr>
<td>5 Production Loss Cost per Hour</td>
<td>$11,250</td>
<td>$11,250</td>
</tr>
<tr>
<td>6 Crane Rental per Hour (Average Cost)</td>
<td>$300</td>
<td>N/A</td>
</tr>
</tbody>
</table>

TO FIND THE COST SAVINGS:

A Labor Cost for Outage (Line 2 x Line 3 x Line 4) $1,080 $270
B Production Loss for Outage (Line 5 x Line 2) $270,000 $67,500
C Equipment Rental for Outage (Line 6 x Line 2) $7,200 N/A

D TOTAL COSTS Bearing + Labor + Production loss + Crane Rental Cost (Line 1 plus Line A, B, and C) $280,972 $75,846

COOPER TOTAL SAVING - $205,126

Subtract the value of line D on the left from the value of line D on the right to establish the savings achieved by specifying Cooper.

COOPER IS PROVEN IN THESE INDUSTRIES...

Building Material    Grain    Power Generation
Bulk Terminals       Iron & Steel  Pulp & Paper
Cement & Aggregate   Marine     Refining & Petrochem
Food & Beverage      Mining & Processing  Sugar
Forest Products      

Leading Bearing Technology Since 1894

COMPLETELY SPLIT TO THE SHAFT
# Industry Application Successes

## Applications

<table>
<thead>
<tr>
<th>Mechanical Handling</th>
<th>Building Materials</th>
<th>Bulk Terminals</th>
<th>Cement and Aggregate</th>
<th>Food and Beverage</th>
<th>Forest Products</th>
<th>Grain</th>
<th>Iron and Steel</th>
<th>Marine</th>
<th>Mining and Processing</th>
<th>Power Generation</th>
<th>Pulp and Paper</th>
<th>Refining and Petrochem</th>
<th>Sugar</th>
<th>Water Treatment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Continuous Slab Casting Machines</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Conveyors</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cooling Beds</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Elevators</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Line Shafts</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Log Decks and Tables</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Overhead Cranes</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Screw Conveyor</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Stacker Reclaimers</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Winding Gear</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Winders</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Haulage Gear and Winches</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Process Equipment</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ball Mill Trunnions</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ball Mill Drives</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cane Knives and Beet Slicers</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Carriers and Feeders</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Crushers</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Drum Processor Trunnions</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dryer Rolls</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Kiln and Mill Under Rollers</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Kiln and Tube Mill Drives</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mill Drives</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mixers and Agitators</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Press Roll</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Reciprocating Screens</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rotating Drums</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Shredders</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sugar Diffuser Drives</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sugar Diffuser Under Rollers</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Washers</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ancillary Equipment</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Crankshafts</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fans and Blowers</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gearboxes</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Heat Exchangers</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Motors and Generator Sets</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pumps and Pump Drives</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other Applications</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hydro Turbines</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Marine Propulsion Shafts</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Water Screens</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wind Turbines</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
The Cooper Bearings Group is a Full Service Supplier that Delivers Cost Savings to End Users with Channel Partners by Reducing Downtime and Increasing Uptime.

Cooper Business Values

- Bottom Line Cost Savings at Time of Installation
- Less Downtime and More Production Uptime
- Significant Energy Savings when Compared with Sleeve Oil Bearings
- Exceptional Product Quality
- Large Comprehensive Inventory in Crossville, TN and Sparks, NV
- 24 Hour Ground Delivery to Most US Locations
- In-depth Engineering Support: Application and On-Site Support
- Information Rich Website: CooperBearings.com
- Full Service E-commerce Site: Cooper Store on PTplace.com
- Broad Range of Marketing Support Tools including Demonstration Sample

Completely Split to the Shaft Roller Bearings

- All Components Manufactured in Halves
- Cylindrical Roller Bearing
- Superior Sealing
- Self-aligning Cartridge
Customer Service Centers

USA, Canada, Mexico and Central America
Customer Service Centres
Cooper Bearings Group
USA, Canada, Mexico and Central America
The Cooper Split Roller Bearing Corp.
5365 Robin Hood Road
Suite B
Norfolk
VA 23513
USA,
Tel:   +1 (1) 757 460 0925
Fax:   +1 (1) 757 464 3067
Email: CoopersalesUS@kaydon.com

UK, Europe, South America, Asia, Australia and the Middle East
Cooper Roller Bearings Company Ltd.
Wisbech Road
Kings Lynn
Norfolk
PE30 5JX
United Kingdom
Tel:   +44 (0) 1553 763447
Fax:   +44 (0) 1553 761113
Email: CoopersalesUK@kaydon.com

Germany
Cooper Geteilte Rollenlager GmbH.
Postfach 100 423
Oberenrader Str: 407
47704 Krefeld
GERMANY
Tel:   +49 (0) 2151 713 016
Fax:   +49 (0) 2151 713 010
Email: CoopersalesDE@kaydon.com

People’s Republic of China
Cooper Bearings Group Beijing,
Room 909, Canway Building Tower I
No 66, Nanlishi Road
Xicheng District
Beijing
PRC 100045
Tel:   +86 (0) 10 68080803
+86 (0) 10 68080805
+86 (0) 10 68080806
Fax:   +86 (0) 10 68080801
Email: CoopersalesCN@kaydon.com

Brazil
Cooper do Brasil Ltda.
Caixa Postal 66.105
CEP 05.314-970
Brasil
Tel:   +55 (0) 11 3022 3706
Tel:   +55 (0) 11 9156 2500
Email: CoopersalesBR@kaydon.com

India
Cooper Roller Bearings Company Ltd.
Wisbech Road
Kings Lynn
Norfolk
PE30 5JX
United Kingdom
Tel:   +91 (0) 9820180089
Email: CoopersalesIN@kaydon.com

Australia
Cooper Bearings Group
PO BOX 241
Kelmscott
Western Australia 6991
Tel:   +61 (0) 8 93979990
Fax:   +61 (0) 8 93979990
Email: CoopersalesAU@kaydon.com

Locate Your Nearest Distributor by Visiting CooperBearings.com

Issue March 2011

Lisk US 5 K v I