

# Cement Industry Bearings

The Cooper Bearings Group is a full service provider of sales and technical engineering support to our customers around the world. No other split roller bearing manufacturer matches the Cooper breadth of knowledge and experience.

Significant investment has transformed Cooper into a responsive, customer focused organisation offering stock availability for standard

product and competitive lead time for special bearings. We support our customers with rapid technical and commercial information directly from our offices and via our web site at [CooperBearings.com](http://CooperBearings.com)

To ensure Cooper continues to lead our industry, we have created a new product and business development process. This ensures we will continue to offer products and services that provide demonstrable competitive advantage.

Cement producers around the world depend on continuous operations and minimum maintenance times. Breakdown means loss of production and lost output and lower profit.

Cooper offer a proven range of bearings, mountings and seals designed to meet the harsh, dust laden applications of the cement industry.

We offer the 01 Series bearing for medium duty, the 02 Series for heavy duty and the 03 Series for extra heavy duty from our standard range

Our mounting option range includes tension retaining take-up bearings, both push and pull type, hanger bearings for use on scroll conveyors, a flange mounting and the standard bearing, cartridge and pedestal for all three standard Series.

Installation is very easy as there is no need to remove ancillary equipment. In most instances, except for the very largest bearings, there is no need to use expensive lifting equipment.

Cooper also offers a comprehensive selection of seals that will retain lubrication and prevent the ingress of contaminants, even in the most demanding conditions.

Our local Sales Managers will offer professional advice backed by solid technical support and product availability from our distribution partners in over thirty countries around the world.

Easy assembly and full technical support are a Cooper standard. Contact Cooper or authorized distributors for more information



## Features & Benefits

### Split to the Shaft Bearing

- Low cost of installation.
- Ease of replacement.
- Reduces downtime.
- Increases maintenance efficiency.

### Comprehensive Range of Mountings

- Meets most application requirements from the standard range.
- Pillow blocks are available in steel, grey iron and ductile iron including: flanges, rod end bearings, take-up bearings and custom bearings.

### Superior Concentric to the Shaft Sealing

- External alignment ensures 360° concentricity with the shaft at all times, eliminating contamination and increasing bearing life.

### Full Service Manufacturer

- Proven range of products.
- Vast engineering knowledge.
- Problem solving solutions a specialty.
- Technical and installation support service.

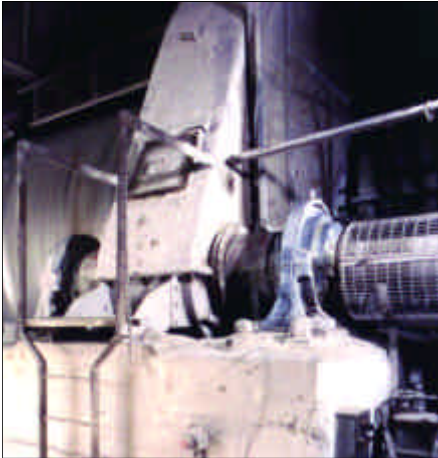
### Established Organization

- Global distribution network.
- Local support provided by Cooper and distribution chain partners.

## Cement Industry Bearings

### ...IN THESE APPLICATIONS...

BALL MILLS



SCREW CONVEYORS



CLINKER BREAKERS



### ...IN TRAPPED LOCATIONS...

CONVEYORS AND ELEVATORS



FAN AND BLOWER APPLICATIONS

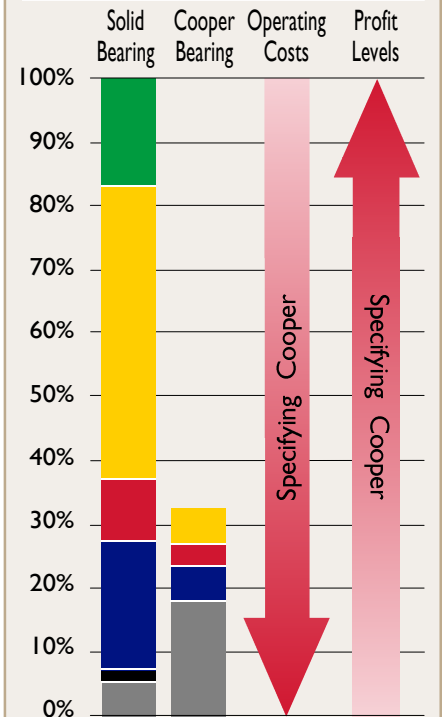


CEMENT PUMPS



### ...WITH PROVEN SAVINGS.

#### Demonstrable Cost Savings



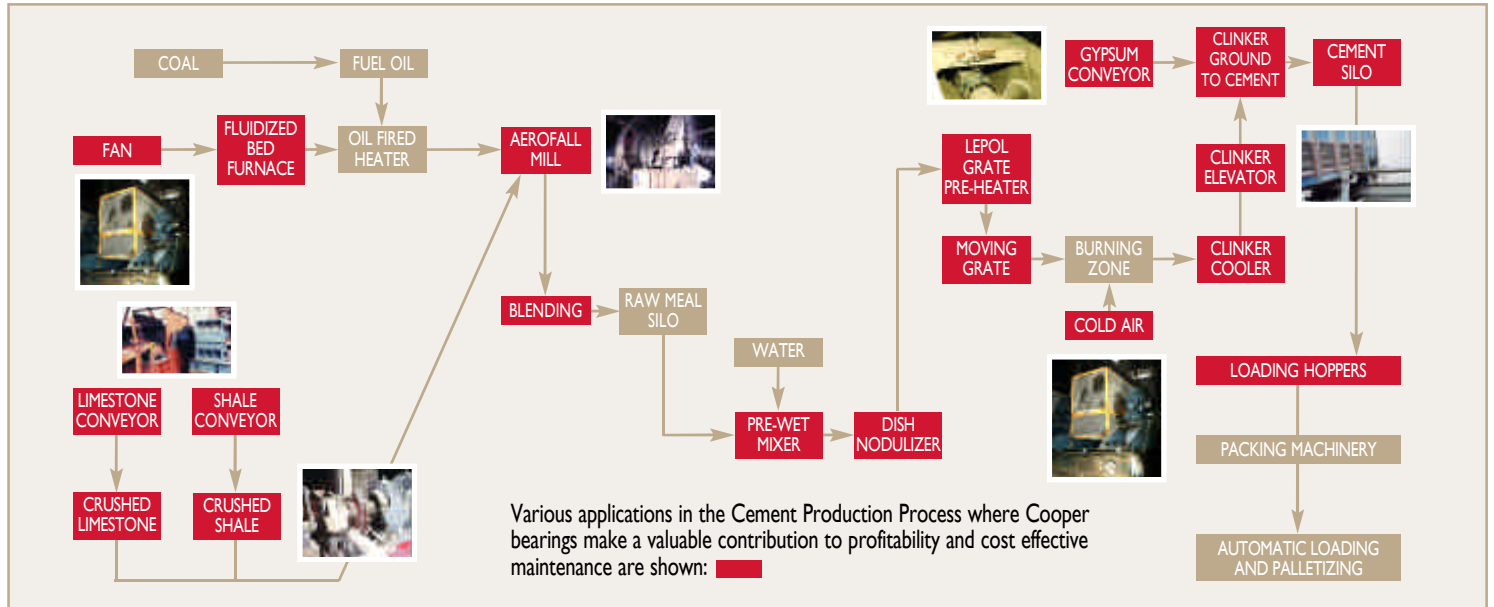
- Re-installing Adjacent Machinery
- Downtime Cost
- Maintenance Cost
- Installation Cost
- Adaptor Sleeve Cost
- Bearing Cost

#### A HIGH RETURN ON INVESTMENT

Cooper offers a considerable year on year return on investment. To establish your ROI in the first year as a percentage, divide the savings made by the cost of the bearing.

See the Cost Saving Potential Form on Page 3 to prove to customers the level of savings possible.

# Cement Industry Bearings



## Evaluate Your Own Cost Saving Potential Using Cooper Bearings

### COST SAVING COMPARISON

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

### TO FIND THE COST SAVINGS:

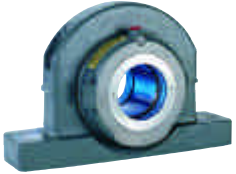
A Labor cost for Outage (Line 2 x Line 3 x Line 4)	\$1,080		\$270	
B Production loss for Outage (Line 5 x Line 2)	\$270,000		\$67,500	
C Equipment rental for Outage (Line 6 x Line 2)	\$7,200		N/A	
<b>D TOTAL COSTS</b>				
Bearing + Labor + Production Loss + Crane Rental Cost (Line 1 plus Line A, B, C and D)	\$280,972		\$75,846	
<b>COOPER TOTAL SAVINGS</b>	-		<b>\$205,126</b>	

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.

# Cement Industry Bearings

## BEARING MOUNTING OPTIONS

### PILLOW BLOCKS HANGER MOUNTINGS



**Pillow Block Unit**  
1 3/16" / 30mm to 24" / 600mm  
Available in cast iron  
ductile iron or steel

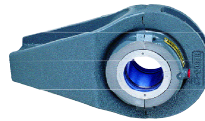


**Hanger Unit**  
1 3/16" / 30mm to 5 1/2" / 140mm  
Available in cast iron

### TAKE UP AND ROD END MOUNTINGS



**Take Up Tension**  
1 3/16" / 30mm to 6" / 155mm  
Available in cast iron  
Also offered as push type

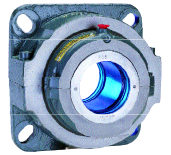


**Rod End Shoe**  
1 3/16" / 30mm to 6" / 155mm  
Available in cast iron  
Also offered as tee type

### FLANGE MOUNTINGS



**Round Flange Units**  
1 3/16" / 30mm to 12" / 300mm  
Available in cast iron or steel



**Square Flange Units**  
1 1/16" / 50mm to 3" / 75mm  
Available in cast iron,  
ductile iron or steel



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



The return on investment on one clinker breaker bearing alone has proved the cost saving potential when specifying Cooper split to the shaft roller bearings. Cooper bearings are completely accessible at all times for cost effective maintenance and maximum safety compliance on any type of application.



## Customer Service Centers

### USA and Mexico

The Cooper Split Roller Bearing Corp  
5365 Robin Hood Road, Suite B,  
Norfolk, VA 23513  
USA.  
Telephone 757 460 0925  
Fax 757 464 3067

### Canada

Cooper-Grainger Canada Inc  
5875 Coopers Avenue  
Mississauga  
Ontario L4Z 1R9.  
Telephone 905 890 2266  
Fax 905 890 2269

### UK, Asia Pacific and Middle East

Cooper Roller Bearings Co Ltd  
Wisbech Road  
King's Lynn  
Norfolk PE30 5JX  
England.  
Telephone +44 (0) 1553 763 447  
Fax +44 (0) 1553 761 113

### Europe and South America

Cooper Geteilte Rollenlager GmbH  
Postfach 100 423  
Oberbenrader Str 407  
47704 Krefeld  
Germany.  
Telephone + (49) 2151 713 016  
Fax +(49) 2151 713 010

[www.CooperBearings.com](http://www.CooperBearings.com)