

## SPECIALISTS IN HEAVY AND DIRTY INDUSTRIES

CONTINUOUS SLAB CASTERS • COOLING BEDS  
LINK SPINDLES • PILGER MILLS • MATERIALS  
HANDLING AND EXTENSIVE FAN APPLICATIONS

Specialists in steel for decades, Cooper Bearings offer optimum performance, simple and speedy bearing inspection for preventative maintenance and immense downtime savings during inspection or replacement.

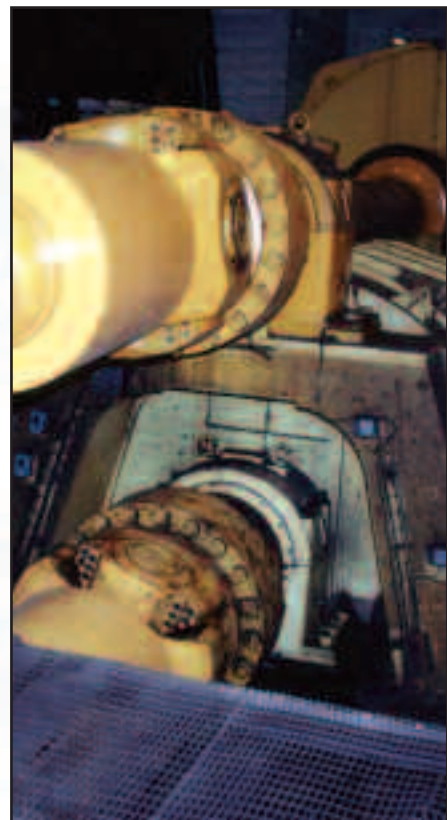
Cooper has long standing co-operation with Steel Industry OEM's and End Users around the world who include:

- Arcelor (Spain)
- Avesta (Sweden & USA)
- Boa Steel (China)
- Corus (UK)
- CST (Brasil)
- Danielli (Italy)
- IPSCO (USA)
- Krupp (Germany)
- Nanjing Steel (China)
- Posco (South Korea)
- Sandvik (Sweden)
- SMS Demag - SMS Meer (Germany)
- Tisco (India)
- VAI (Austria)

### COOLING BEDS



### LINK SPINDLES



## MAKING CUSTOMERS MORE PROFIT

### SLAB CASTERS



## FEATURES & BENEFITS

#### Split to the Shaft Watercooled Continuous Slab Caster Bearing

Low profile steel watercooled housing. Accommodates shaft expansion without inducing wear.  
Low profile facilitates fitting larger rolls. Full complement of rollers allows for high load capacity in minimum envelope. Axial movement accommodated with expansion bearing. Grease lubrication directly on to the roller path. Low cost of installation. Ease of replacement. Reduces downtime. Increases maintenance efficiency.

#### Superior Spiral Wound Labyrinth Sealing

Choice of Laminar or Polymer seals. Reduces contamination. Retains lubrication. Prolongs bearing life.

# COOPER®

## Cooper Customer Service Centres

### UK, Europe, South America, Asia, Australia and the Middle East

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# COOPER®



## Value Proposition



## DELIVERING SIGNIFICANT COST SAVINGS

### Features & Benefits

<b>Split to the Shaft Bearing</b>	Significant Cost Savings at time of Installation. Ease of Replacement. Reduces Downtime. Increases Maintenance Man-Hour Efficiency.
<b>Comprehensive Range of Mountings</b>	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.
<b>Superior Concentric to the Shaft Sealing</b>	Typical options include: Triple Labyrinth, Felt and Lip Contact Seals. Reduces Contamination. Retains Lubrication for a Cleaner Working Environment.
<b>Full Service Manufacturer</b>	Proven Range of Products. Vast Engineering Knowledge. Technical and installation support service.
<b>Established Organisation</b>	Global Distribution Network. Local Support Provided by Cooper and Distribution Partners.

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 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.



## YOU CAN PROVE IT FOR YOURSELF

### 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 Labour 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 + Labour + Production loss + Crane Rental Cost (Line 1 plus Line A, B, and C)	<b>\$280,972</b>	<b>\$75,846</b>
<b>COOPER TOTAL SAVING</b>	<b>-</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.

### 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		Water Treatment

**COOPER**  
Leading Bearing Technology Since 1894

## INDUSTRY APPLICATION SUCCESSES

### Applications

Applications	Building Materials	Bulk Terminals	Cement and Aggregate	Food and Beverage	Forest Products	Grain	Iron and Steel	Marine	Mining and Processing	Power Generation	Pulp and Paper	Refining and Petrochem	Sugar	Water Treatment
<b>Mechanical Handling</b>														
Continuous Slab Casting Machines														
Conveyors														
Cooling Beds														
Elevators														
Line Shafts														
Log Decks and Tables														
Overhead Cranes														
Screw Conveyor														
Stacker Reclaimers														
<b>Winding Gear</b>														
Winders														
Haulage Gear and Winches														
<b>Process Equipment</b>														
Ball Mill Trunnions														
Ball Mill Drives														
Cane Knives and Beet Slicers														
Carriers and Feeders														
Crushers														
Drum Processor Trunnions														
Dryer Rolls														
Kiln and Mill Under Rollers														
Kiln and Tube Mill Drives														
Mill Drives														
Mixers and Agitators														
Press Rolls														
Reciprocating Screens														
Rotating Drums														
Shredders														
Sugar Diffuser Drives														
Sugar Diffuser Under Rollers														
Washers														
<b>Ancillary Equipment</b>														
Crankshafts														
Fans and Blowers														
Gearboxes														
Heat Exchangers														
Motors and Generator Sets														
Pumps and Pump Drives														
<b>Other Applications</b>														
Hydro Turbines														
Marine Propulsion Shafts														
Water Screens														
Wind Turbines														

## BEARING MOUNTING OPTIONS

<b>PILLOW BLOCKS</b>	<b>HANGER MOUNTINGS</b>	<b>TAKE UP AND ROD END MOUNTINGS</b>	<b>FLANGE MOUNTINGS</b>
<b>Pillow Block Unit</b> 1 1/4"/30mm to 24"/600mm Available in cast iron ductile iron or steel	<b>Hanger Unit</b> 1 1/4"/30mm to 5 1/2"/140mm Available in cast iron	<b>Take Up Tension</b> 1 1/4"/30mm to 6"/155mm Available in cast iron Also offered as push type	<b>Rod End Shoe</b> 1 1/4"/30mm to 6"/155mm Available in cast iron Also offered as tee type
<b>Round Flange Units</b> 1 1/4"/30mm to 12"/300mm Available in cast iron or steel	<b>Square Flange Units</b> 1 1/4"/50mm to 3"/75mm Available in cast iron, ductile iron or steel		

## BEARINGS AND SEALS COMPLETELY SPLIT TO THE SHAFT