

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

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COOPER®



Value Proposition

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 Organisation	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
D TOTAL COSTS Bearing + Labour + 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		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
Mechanical Handling														
Continuous Slab Casting Machines														
Conveyors														
Cooling Beds														
Elevators														
Line Shafts														
Log Decks and Tables														
Overhead Cranes														
Screw Conveyor														
Stacker Reclaimers														
Winding Gear														
Winders														
Haulage Gear and Winches														
Process Equipment														
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														
Ancillary Equipment														
Crankshafts														
Fans and Blowers														
Gearboxes														
Heat Exchangers														
Motors and Generator Sets														
Pumps and Pump Drives														
Other Applications														
Hydro Turbines														
Marine Propulsion Shafts														
Water Screens														
Wind Turbines														

BEARING MOUNTING OPTIONS

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

BEARINGS AND SEALS COMPLETELY SPLIT TO THE SHAFT