

I N C R E A S E U P T I M E A N D C U T D O W N T I M E

# Continuous Slab Caster Bearings

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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 organization offering stock availability for standard product and competitive lead time for special bearings. We support our customers with rapid technical and commercial information.

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.

## Proven in steelworks worldwide

Cooper have split to the shaft, watercooled continuous caster bearings in steelmaking installations around the world. Our watercooled bearings are manufactured to meet specific design requirements and we work closely with OEM's to ensure the application requirements are met and exceeded.

## Features & Benefits

### Split to the Shaft Continuous 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

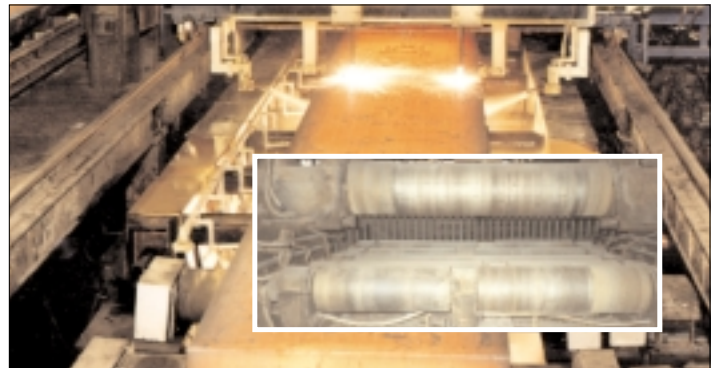
- Choice of Laminar or Polymer seals.
- Reduces contamination.
- Retains lubrication.
- Prolongs bearing life.

### 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 partners.



## High return on investment

In the arduous conditions of the continuous caster environment, the Cooper bearing offers a long operational life. Cooper bearings when positioned on the upper segments have returned in excess of 2m tons cast. When fitted to the lower segments, which has a higher load rating, these positions have averaged 1m tons.

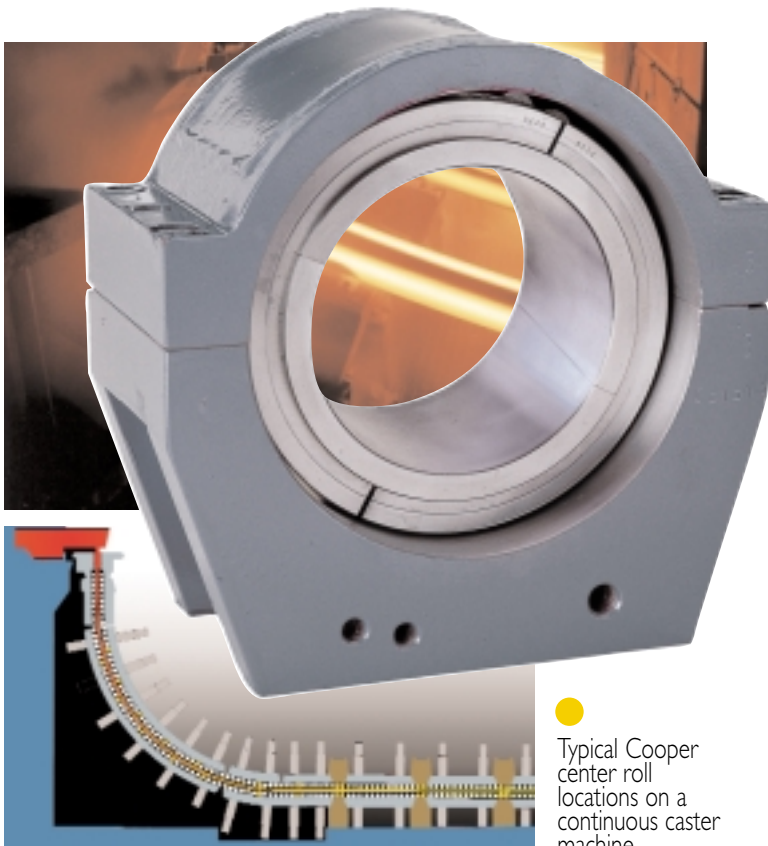
## Lubrication and cooling

Suitable for close clearance applications, the Cooper bearing features a low profile housing for optimum cooling. The watercooled bearings will maintain the bearing at temperatures of 140°-176°F (60°-80°C) at correct flow rates. Cooper recommend automatic grease fed lubrication for maximum lifespan.

# COOPER

A Supplier of Competitive Advantage

COMPLETELY SPLIT TO THE SHAFT CONTINUOUS SLAB CASTER BEARINGS



● Typical Cooper center roll locations on a continuous caster machine

## Integral axial movement

When temperature variations cause the roll length to change, the profiled cylindrical rollers of the Cooper bearing move freely across the bore of the outer race and the diameter of the inner race allowing almost frictionless movement within the bearing.

## Superior sealing

Cooper have had a high degree of success with Laminar and Polymer seals mounted as single or double sets. These seals are resistant to damage by scale particles and in conjunction with effective lubrication prevent water entry into the housings.

## Worldwide local support

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

Contact Cooper for more information.



## Further steel industry applications for Cooper split to the shaft roller bearings include:

### Raw materials

Conveyors • Separators • Stacker reclaimers • Bucket elevators • Rotary & vertical kilns • Fans • Tipplers • Crushers • Dock handling

### Steel forming

Cooling banks • Quench tanks • Transfer tables • Reheat furnace • Breast rolls • Rolling mill drives • Skid banks • Crop shears • Coilers

### Steel Making

Converters • Trunnions • Gearboxes

### Further applications include:

Heat treatment • Plating lines • Water treatment

# COOPER

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