



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

# Fan and Blower Applications

Page 1 of 2

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 focussed 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.

Industries around the world recognize the importance of continuous air flow and fume extraction. Fan breakdown means loss of production and lost output. Cooper bearings reduce downtime to a minimum. They are specified for use on air movement and ventilation by OEM's and plant managers around the world, and have a proven track record. Compared with any double row spherical fitted to a comparable shaft size, the Cooper bearing can run at a higher speed.

Cooper offers a proven range of split to the shaft roller bearings, mountings, and seals designed to meet the air movement and fume extraction requirements of heavy industry.

To meet these varied requirements, 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 of bearings. Our standard fan mounting option range includes pillow blocks and flange mountings.

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. Additionally, fitting a Cooper bearing is easier in a confined space as the components are easier to manage.

In many cases the pillow block base hold down bolts remain in place during change out. When replacing only the Cooper bearing and cartridge unit in existing applications, the proper fan-wheel and shaft alignment is maintained by the cartridge swivel joint.

Cooper also offers a comprehensive selection of seals that will retain lubrication and keep out damaging particles, even under the most demanding and hostile operating conditions.

Our local sales manager will offer free professional advice backed by solid technical support and product availability from our distribution partners around the world. 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.
- Factory set clearance.

### Comprehensive range of mountings

- Meets most application requirements from the standard range.
- Pillow blocks 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

- Minimum clearance, non-contact multi labyrinth seals as standard.
- 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.

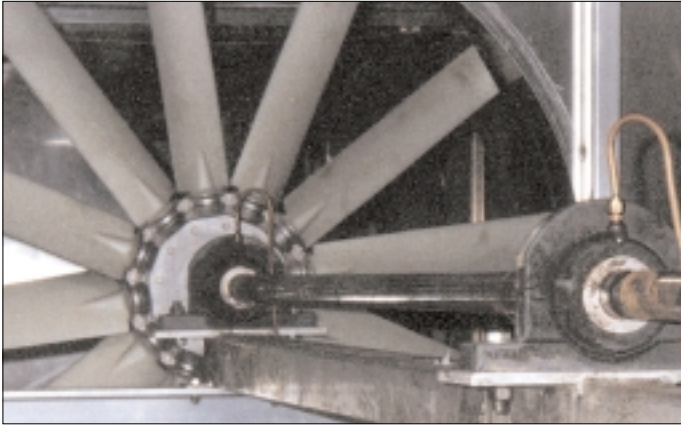
### Established organization

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

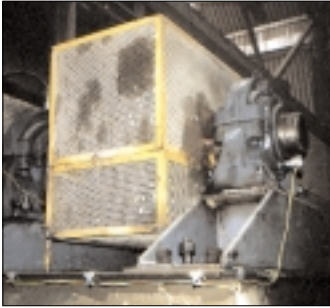
# COOPER

A Supplier of Competitive Advantage

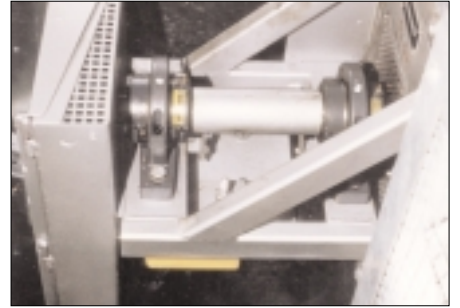
B E A R I N G S & S E A L S C O M P L E T E L Y S P L I T T O T H E S H A F T



Completely accessible in trapped applications for cost effective maintenance. These Cooper bearings are shown mounted to an automotive paint shop extractor fan.

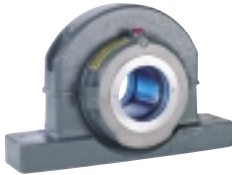


Cooper bearings operate effectively in the harshest of conditions including extremes of temperature, high humidity or abrasive atmospheres.



## FAN BEARING MOUNTING OPTIONS

### PILLOW BLOCKS



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

### 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

Cooper also offers from the standard range of housings: Hanger bearings, Take Up Tension and Push type and Rod End Shoe type and Tee type housings. Sizes range from 1 3/16"/30mm to 6"/155mm.

## BEARINGS & SEALS COMPLETELY SPLIT TO THE SHAFT



### Cooper Bearings Group

The Cooper Split Roller Bearing Corp  
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Virginia Beach, VA 23455 - 3378  
USA  
Telephone 757 460 0925  
Fax 757 464 3067

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

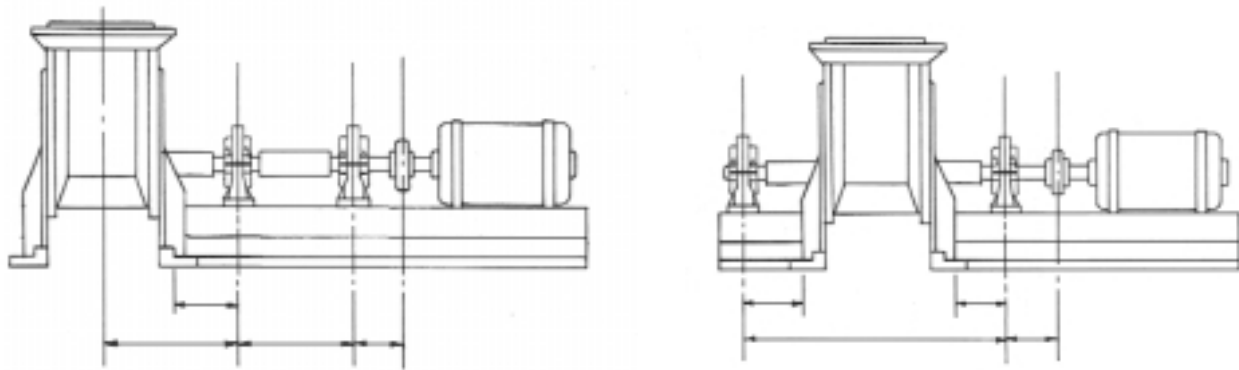
Cooper Geteilte Rollenlager GmbH  
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Oberbenrader Str 407  
47704 Krefeld  
Germany  
Telephone + (49) 2151 713 016  
Fax +(49) 2151 713 010

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

# D I R E C T D R I V E F A N S

Please provide as much information as possible and include dimensional information on existing fan configuration on a drawing below.

PLEASE PRINT CLEARLY



### Contact information

Company name:	Contact name:
Distributor name:	City: State:
Sales person name:	Date:
Phone:	Fax:

### Application details

Customer's application name:		
Data from nameplate:		
Shaft size:	Current bearing (2 or 4 bolt base):	
Motor h.p. :	Motor speed:	Fanshaft speed:
Single or double inlet:	Fanwheel diameter:	Fanwheel weight:
Inlet cone smallest diameter:		Inlet duct diameter:
Static pressure (water gauge):	Flow rate (CFM):	Thrust load:
Temperature of gases: °F.	Shaft temperature at bearing location: °F.	Ambient temperature: °F.
Comments on operating environment:		

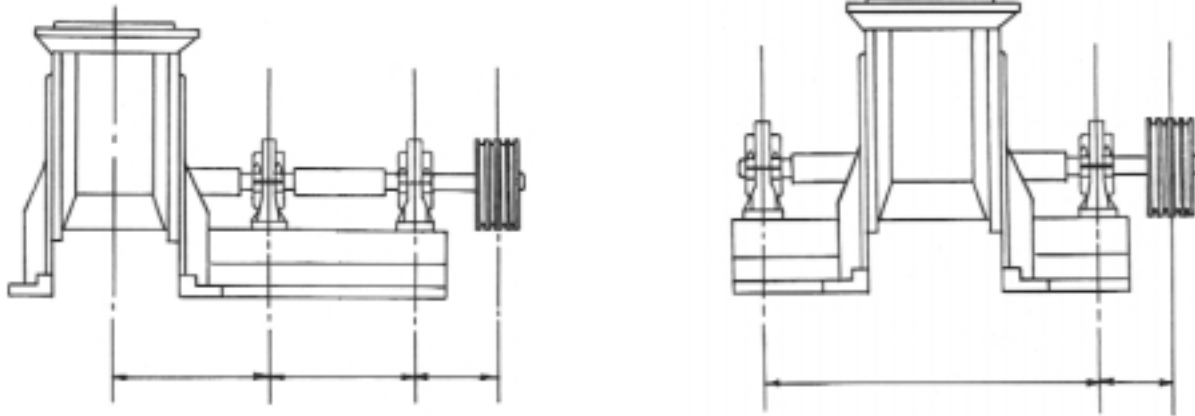
Please forward your specifications to:

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  
 The Cooper Split Roller Bearing Corp, 5795 Thurston Avenue, Virginia Beach, VA 23455-3378, USA, Telephone 757 460 0925, Fax 757 464 3067  
 Cooper Geteilte Rollenlager GmbH, Postfach 100 423, Oberbenrader Str 407, 47704 Krefeld, Germany, Telephone + (49) 2151 713 016, Fax +(49) 2151 713 010

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Shaft size:	Current bearing (2 or 4 bolt base):	
Motor h.p. :	Motor speed:	Fanshaft speed:
Drive sheave diameter:	Driven sheave diameter:	
Single or double inlet:	Fanwheel diameter:	Fanwheel weight:
Inlet cone smallest diameter:	Inlet duct diameter:	
Static pressure (water gauge):	Flow rate (CFM):	Thrust load:
Temperature of gases:      °F.	Shaft temperature at bearing location:      °F.	Ambient temperature:      °F.
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