



#### Cooper Bearings Group

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  
Email: [coopersalesuk@kaydon.com](mailto:coopersalesuk@kaydon.com)

Cooper Bearings Group  
Room 617, Zhongtie Zixun Plaza  
Southern Square  
West Railway Station  
Fengtai District  
Beijing 100055  
People's Republic of China  
Telephone +(86) 10 58095018  
Fax +(86) 10 58095002

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

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

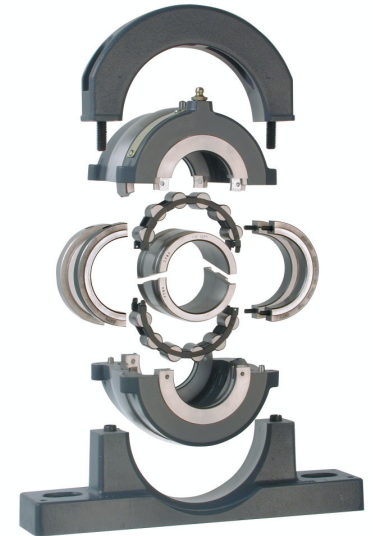
Cooper-Grainger Canada Inc.  
5650 Tomken Road  
Unit 1, Mississauga  
Ontario L4W 4P1  
Canada  
Telephone 905 890 2266  
Fax 905 890 2269

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

Authorized Cooper Distributors Worldwide

April 2008

## 01E Series Split Roller Bearing



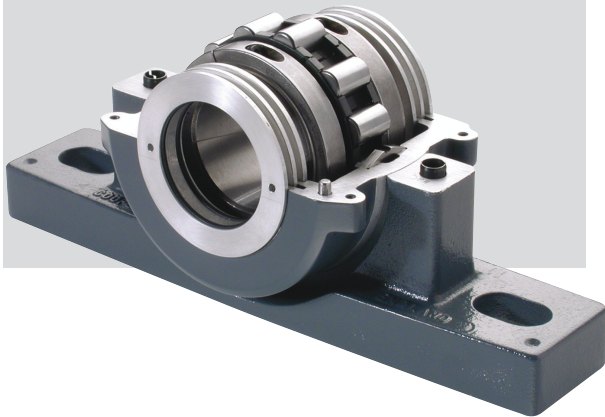
## 01E Series Split Roller Bearing

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

# O I E S E R I E S S P L I T R O L L E R B E A R I N G

## Features & Benefits

Dimensionally interchangeable with the O1 Series bearing	Uses existing cartridge and housing.
Increased load ratings	Longer operational life. Higher safety margins. OEM's can specify the more cost effective O1E instead of O2 Series bearings.
Self-locking steel cage	Increased operating temperature range. Lower maintenance costs. Simple assembly. No small components to remove, replace or lose.



### Increase uptime and cut downtime

Cooper Bearings leads the world in the design, manufacture and application of totally split roller bearings across a broad range of major industries.

When replacement is necessary, Cooper users save valuable production time that would otherwise be lost by the time consuming replacement of non-split bearings.

### The O1E Series bearing

The O1E Series bearing incorporates a split steel cage with more rollers, while maintaining the same overall dimensions as our standard O1 Series bearing.

The ability of the O1E Series bearing to take additional load within the existing space of the O1 Series results in longer life for existing applications or more economic bearing selection when designing new equipment.

Dimensional interchangeability means existing O1 Series cartridges and pedestals, and other Cooper outer mountings can be used with no change to either shafting or mount seatings.

The internal construction of the bearing has been designed to produce an average of 30% increase in radial and 20% increase in axial load ratings, compared to the O1 Series.

### Self locking cage

A feature of the O1E cage in addition to greater load ratings, is the elimination of cage joint clips, simplifying even further the assembly benefits provided by the Cooper bearing.

### Inspection and replacement

Reducing downtime to a minimum in trapped locations is only possible with totally split roller bearings. Equally, bearing replacement time is proportionally reduced as major components remain in place during planned maintenance periods. There is no need to re-align bearings or drive system.

### Bearing clearance

All Cooper bearings are shipped with factory set clearances. Assembly advice and literature is provided with the product and is also available on request.

### Technical services

With one hundred years' experience in split roller bearings design and application, Cooper is recognised world wide as the leading authoritative advisor on application and sealing solutions for a multitude of industries.

O1E Series dimensional and load rating specifications							
Shaft diameter (d) inches mm	Bearing only*		Dynamic C lb/kN	Ratings		Max Speed rpm	
	inches	millimetres		Static Cor lb/kN	Axial Ca lb/kN		
1 3/4 1 5/8 2	01 EB 112 01 EB 115 01 EB 200	01 EB 50	21375 95	23400 104	855 3.8	4630	
2 3/8 2 1/4 2 1/8 2 1/2	01 EB 203 01 EB 204 01 EB 207 01 EB 208	01 EB 55 01 EB 60 01 EB 65	30150 134	35100 156	1620 7.2	3940	
2 11/8 2 3/4 2 5/8 3	01 EB 211 01 EB 212 01 EB 215 01 EB 300	01 EB 70 01 EB 75	37125 165	44100 196	2430 10.8	3310	
3 3/8 3 1/4 3 1/8 3 1/2	01 EB 303 01 EB 304 01 EB 307 01 EB 308	01 EB 80 01 EB 85 01 EB 90	51300 228	65025 289	3060 13.6	2790	
3 11/8 3 3/4 3 5/8 4	01 EB 311 01 EB 312 01 EB 315 01 EB 400	01 EB 100 01 EB 105	70875 315	92700 412	4410 19.6	2340	

\*Add EX for expansion type or GR for fixed type as a suffix to unit reference.



100 YEARS OF  
**COOPER**  
SPLIT ROLLER BEARINGS

H I G H E R L O A D R A T I N G A N D L O N G E R L I F E