

Reasons Why Cooper E Series
Bearings Give Superior Performance

The Cooper E Series bearing is the leader in its field offering up to 240% increase on L10 Life.

No other split roller bearing matches the superb performance offered the Cooper split roller bearing.

- Longer Life up to 240% based on radial net load.
- 2 Higher Load Rating increased capacity up to 30%.
- **3** Easy clip-lock cage for speedy assembly and maintenance.
- Uses existing Cooper 01 Series cartridges and pedestals.
- Superior sealing provides optimum performance in hostile environments.
 - Available to fit shaft sizes 35mm (1 3/4") up to 105mm (4").

Bearing Life Comparison

Bearing Rating	C (kN) L	oad (kN)	RPM	fn	fd	fk	fl	L10 (Hours)
Cooper	134	10	500	2.253411	1.2	1.0	4.96	103,732
Copy Product	103	10	500	2.253411	1.2	1.0	3.81	43,154

Same Speed, fn, fd, fk Used for all Loads

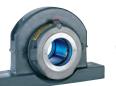
Shaft Diameter (mm)	Group Size	Copy Product Load Rating (kN)	Cooper Load Rating (kN)	Increased Capacity	What Does this mean in terms of L10 Life	Net Radial Loads Used for Selection (kN)	Based on this net radial Load Cooper gives an increased L10 Life over copy product of:	or at 8,000 hours per year, an increased L10 Life of:
45/50	200	83	95	15%		7.2	157%	4.5 Years
60/65	208	103	134	30%		10	240%	7.6 Years
70/75	300	138	165	20%		12.5	182%	5.5 Years
80/85/90	308	187	228	22%		17.2	135%	6 Years
100/105	400	288	315	10%		23.5	135%	3.35 years

Features

Dimensionally Interchangeable with Cooper 01 Series Bearing	Uses existing cartridge and housing.				
Increased Load Ratings	Longer operational life with higher safety margins.				
Self Locking Steel Cage	Increased operating temperature range. Lower maintenance costs with simple assembly. No small components to remove, replace or lose.				
Split to the Shaft Bearing	Installed without moving adjacent equipment or machinery. Low cost of installation. Ease of replacement. Reduces downtime. Increases maintenance efficiency.				
Comprehensive Range of Mountings	Meets most application requirements from the standard range. Pedestals available in steel, grey iron and nodular iron including: flanges, rod end bearings, take-up bearings and custom bearings.				
Superior Concentric to the Shaft Sealing	Reduces contamination. Retains lubrication. Prolongs bearing life. Proven range of sealing options.				

E Series Bearing Mounting Options

PEDESTALS HANGER MOUNTINGS



Pedestal Unit Available in cast iron nodular iron or steel



Hanger Unit 1³/₁₆"/30mm to 24"/600mm 1³/₁₆"/30mm to 5 1/2"/140mm Available in cast iron

TAKE UP AND ROD END MOUNTINGS



Take Up Tension 1³/₁₆''/30mm to 6''/155mm Available in cast iron Also offered as push type



Rod End Shoe $1^{3}/_{16}$ "/30mm to 6"/155mm Available in cast iron Also offered as tee type

FLANGE MOUNTINGS



Round Flange Units 13/16"/30mm to 12"/300mm Available in cast iron or steel



Square Flange Units 1 11/16"/50mm to 3"/75mm Available in cast iron, nodular iron or steel

Customer Service Centres

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