

SD COMPATIBLE SPLIT ROLLER BEARINGS

- Dimensionally Interchangeable with Standard SD Housings
- Easier and More Cost Effective Maintenance

NEW

SD Compatible Split Roller Bearing

SDC Product Line

The housings have bolt hole centre distances and base to bearing centreline heights that conform to industry standard SD dimensions.

The Cooper SD compatible unit is available for shaft sizes from 150mm (SD3134) to 300mm (SD3164). Pedestals are manufactured from ductile iron castings.

The innovative 08 SD series offers the benefit of a split to shaft bearing to heavy duty applications requiring a compact bearing envelope.

For lighter loads the standard Cooper 01 series bearing and cartridge is available in pedestals to SD dimensions.

Temperature and vibration sensor mounting points may be specified. Overall housing height may differ from the height of equivalent SD units.

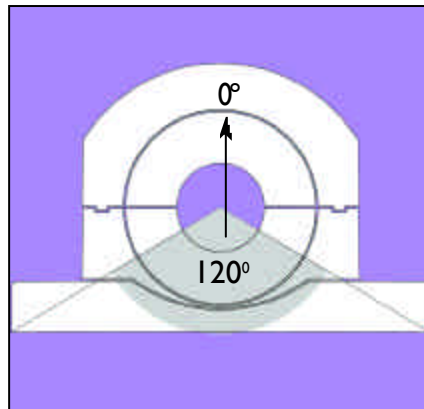
SDC Features and Benefits

The use of standard Cooper 01 Series bearings and swivelling cartridges makes available the comprehensive range of Cooper sealing options suitable for almost any application. The seals remain concentric with the shaft under shaft misalignment conditions.

The outer race of 08 series bearings is arranged to swivel in the housing to provide an alignment facility. A polymeric seal protected by a felt seal is fitted as standard, with the option of seal grease purge points.

Cooper EX (Expansion) type bearings allow free movement of the shaft in the axial direction by allowing the rollers to spiral through one or other of the races as the bearing turns. The outer race is not required to slide through its housing, which is a major cause of 'false thrust' and premature bearing failure in both the 'free' and 'fixed' positions with other types of rolling element bearing.

The Cooper 'GR' (Fixed) type cylindrical bearing carries the radial and axial loads on different surfaces. With the Cooper bearing only the radial load is considered in calculating the L10 life of the bearing, meaning that under combined radial and axial load conditions a greater life can be achieved by a bearing of similar dynamic rating.



Pedestal Loads

The maximum safe radial load for a pedestal casting is based on the bearing static rating C_{0r} . The full C_{0r} rating can be applied if the angle of the load falls within the shaded area of the diagram shown.

If the load falls outside the shaded area or is greater than C_{0r} , please consult our technical department.

When considering suitability of pedestal castings, the resultant effective radial load must be used. The effective radial load is the resultant of net loads and appropriate dynamic factors, excluding speed and life factors.

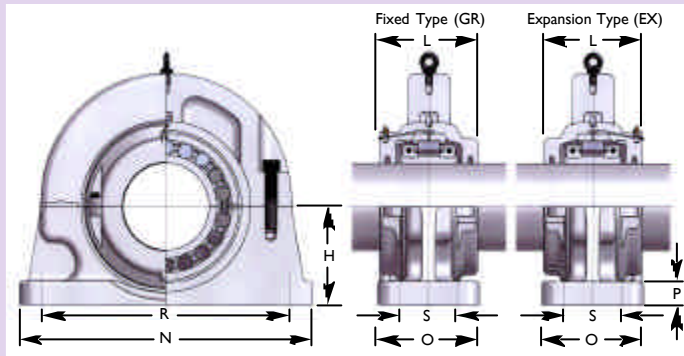


COOPER®

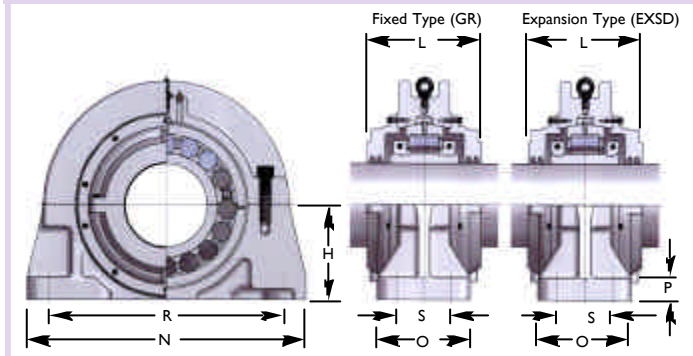
A Supplier of Competitive Advantage

THE NEW COOPER SD COMPATIBLE PRODUCT LINE

COOPER 01 SERIES SDC



COOPER 08 SERIES SDC



MEDIUM DUTY 01 SERIES - TECHNICAL SPECIFICATIONS*

Shaft Size (mm)	Pedestal Only	Bearing Ratings (kN) Dynamic C _r	Static C _{or}	Other Pedestal Compatible BC Units	H	Min	R Max	S	Bolt Size	L	N	O	P
150	01SDC 3134	420	616	155mm 5 ¹⁵ / ₁₆ " 6"	170 6 ¹¹ / ₁₆ "	424 16 ¹¹ / ₁₆ "	436 17 ¹ / ₈ "	100 3 ¹⁵ / ₁₆ "	4 x M24 4 x 7 ⁷ / ₈ " or 1"	174 6 ⁷ / ₈ "	510 20 ¹ / ₁₆ "	178 7"	41 1 ⁵ / ₈ "
160	01SDC 3136	475	708	160mm 6 ⁷ / ₁₆ " 6 ¹ / ₂ "	180 7 ³ / ₃₂ "	438 17 ¹ / ₄ "	462 18 ³ / ₁₆ "	110 4 ³ / ₈ "	4 x M24 4 x 7 ⁷ / ₈ " or 1"	192 7 ⁹ / ₁₆ "	530 20 ⁷ / ₈ "	190 7 ¹ / ₂ "	40 1 ⁹ / ₁₆ "
170	01SDC 3138	510	793	180mm 6 ¹⁵ / ₁₆ " 7"	190 7 ³ / ₁₆ "	468 18 ⁷ / ₁₆ "	492 19 ³ / ₈ "	120 4 ³ / ₄ "	4 x M24 4 x 7 ⁷ / ₈ " or 1"	200 7 ⁷ / ₈ "	560 22 ¹ / ₁₆ "	200 7 ⁷ / ₈ "	40 1 ⁹ / ₁₆ "
180	01SDC 3140	510	793	170mm 6 ¹⁵ / ₁₆ " 7"	210 8 ¹ / ₁₆ "	503 19 ¹³ / ₁₆ "	517 20 ⁵ / ₁₆ "	130 5 ¹ / ₈ "	4 x M30 4 x 1 ¹ / ₄ "	200 7 ⁷ / ₈ "	600 23 ³ / ₈ "	210 8 ¹ / ₄ "	40 1 ⁹ / ₁₆ "
200	01SDC 3144	533	883	190mm 7 ¹⁵ / ₁₆ " 8"	220 8 ²¹ / ₃₂ "	533 21"	547 21 ¹ / ₂ "	140 5 ¹ / ₂ "	4 x M30 4 x 1 ¹ / ₄ "	200 7 ⁷ / ₈ "	640 25 ³ / ₁₆ "	240 9 ⁷ / ₁₆ "	45 1 ³ / ₄ "
220	01SDC 3148	577	980	9"	240 9 ²⁹ / ₆₄ "	593 23 ³ / ₈ "	607 23 ⁷ / ₈ "	150 5 ⁷ / ₈ "	4 x M30 4 x 1 ¹ / ₄ "	216 8 ¹ / ₂ "	700 27 ⁹ / ₁₆ "	250 9 ⁷ / ₈ "	45 1 ³ / ₄ "
240	01SDC 3152	640	1170	10"	260 10 ¹⁵ / ₆₄ "	642 25 ¹ / ₄ "	658 25 ⁷ / ₈ "	160 6 ⁵ / ₁₆ "	4 x M36 4 x 1 ¹ / ₂ "	222 8 ³ / ₄ "	770 30 ⁵ / ₁₆ "	280 11"	45 1 ³ / ₄ "
260	01SDC 3156	725	1333	280mm 11"	280 11 ¹ / ₃₂ "	662 26 ¹ / ₁₆ "	678 26 ¹¹ / ₁₆ "	160 6 ⁵ / ₁₆ "	4 x M36 4 x 1 ¹ / ₂ "	232 9 ¹ / ₈ "	790 31 ¹ / ₈ "	280 11"	55 2 ³ / ₁₆ "
280	01SDC 3160	725	1333	260mm 11"	300 11 ¹³ / ₁₆ "	702 27 ⁵ / ₈ "	718 28 ¹ / ₄ "	190 7 ¹ / ₂ "	4 x M36 4 x 1 ¹ / ₂ "	232 9 ¹ / ₈ "	830 32 ¹ / ₁₆ "	310 12 ¹ / ₄ "	55 2 ³ / ₁₆ "
300	01SDC 3164	762	1456	12"	320 12 ¹⁹ / ₃₂ "	742 29 ¹ / ₄ "	758 29 ¹³ / ₁₆ "	200 7 ⁷ / ₈ "	4 x M36 4 x 1 ¹ / ₂ "	248 9 ³ / ₄ "	880 34 ⁵ / ₈ "	320 12 ⁵ / ₈ "	60 2 ³ / ₈ "

HEAVY DUTY 08 SERIES - TECHNICAL SPECIFICATIONS*

Shaft Size (mm)	Complete Metric Assembly	Bearing Ratings (kN) Dynamic C _r	Static C _{or}	H	Min	R Max	S	Bolt Size	L	N	O	P
150	08B SD3134 150M	730	1007	170 6 ¹¹ / ₁₆ "	424 16 ¹¹ / ₁₆ "	436 17 ¹ / ₈ "	100 3 ¹⁵ / ₁₆ "	4 x M24 4 x 7 ⁷ / ₈ " or 1"	210 8 ¹ / ₄ "	510 20 ¹ / ₁₆ "	170 6 ¹¹ / ₁₆ "	40 1 ⁹ / ₁₆ "
180	08B SD3140 180M	849	1191	210 8 ¹ / ₁₆ "	503 19 ¹³ / ₁₆ "	517 20 ⁵ / ₁₆ "	130 5 ¹ / ₈ "	4 x M30 4 x 1 ¹ / ₄ "	235 9 ¹ / ₄ "	600 23 ³ / ₈ "	210 8 ¹ / ₄ "	45 1 ³ / ₄ "
200	08B SD3144 200M	990	1457	220 8 ²¹ / ₃₂ "	533 21"	547 21 ¹ / ₂ "	140 5 ¹ / ₂ "	4 x M30 4 x 1 ¹ / ₄ "	255 10"	640 25 ³ / ₁₆ "	230 9 ¹ / ₁₆ "	50 2"
220	08B SD3148 220M	1067	1161	240 9 ²⁹ / ₆₄ "	593 23 ³ / ₈ "	607 23 ⁷ / ₈ "	150 5 ⁷ / ₈ "	4 x M30 4 x 1 ¹ / ₄ "	260 10 ¹ / ₄ "	700 27 ⁹ / ₁₆ "	240 9 ⁷ / ₈ "	55 2 ³ / ₁₆ "
240	08B SD3152 240M	1213	1756	260 10 ¹⁵ / ₆₄ "	642 25 ¹ / ₄ "	658 25 ⁷ / ₈ "	160 6 ⁵ / ₁₆ "	4 x M36 4 x 1 ¹ / ₂ "	280 11"	770 30 ⁵ / ₁₆ "	270 10 ⁵ / ₈ "	60 2 ³ / ₈ "

* We recommend confirmation of dimensions and load carrying capacities with Cooper prior to ordering.



Conversion from solid bearings to Cooper split roller bearings is easy. The SD compatible pedestal range offers the advantages of quick access, ease of change and low maintenance costs of Cooper split bearings to OEM's and end users.

TOTALLY SPLIT TO THE SHAFT ROLLER BEARINGS

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