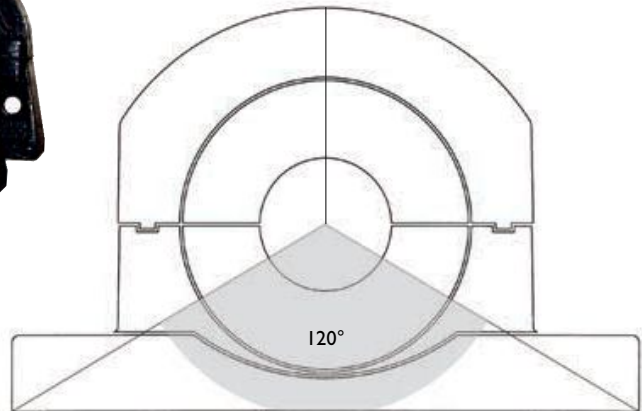
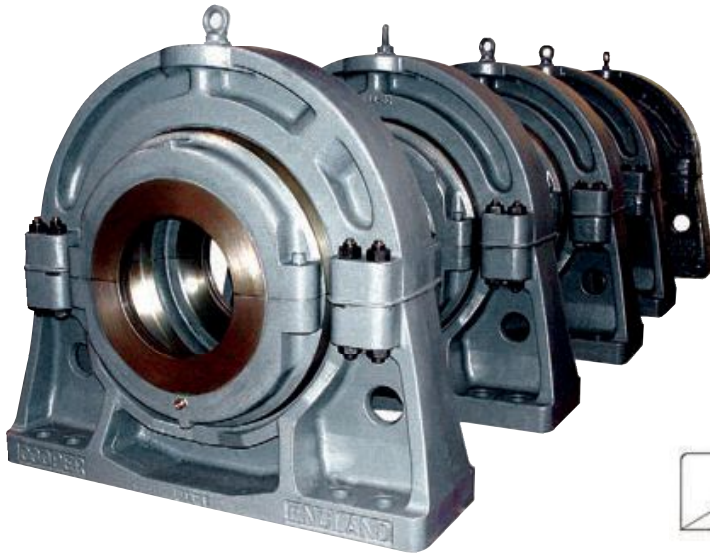




## PEDESTALS

Pedestals (also known as Pillow Blocks) are the most common method of mounting Cooper split roller bearings (in cartridges as explained above).

Cooper standard pedestals are shown on the following pages. Pedestals with height-to-centre and bolt hole configurations to match industry standard SN, SD and SAF pillow blocks are listed separately in this catalogue.

Pedestals are common between expansion (EX) and fixed (GR) units.

## LOADS AND MOUNTING

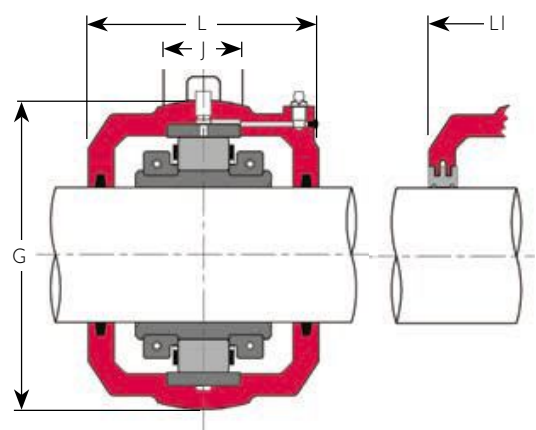
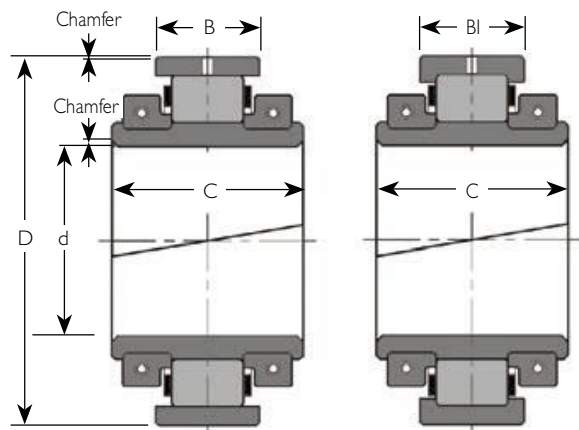
The maximum safe radial load for a pedestal is based on the static rating ( $C_{or}$ ) of the corresponding size of roller bearing. The full static rating can be applied if the angle of the load falls within the shaded area of the sketch, except for the SNC 500 range for which the maximum load is reduced to 50%  $C_{or}$ .

If the radial load falls outside the shaded area, if the radial load exceeds  $C_{or}$ , or if the axial loads exceed 50% of the axial rating ( $C_a$ ) of the corresponding roller bearing please consult our technical department. For I00 Series bearings, the maximum axial load is reduced to 35%  $C_a$  and for 01E and 02E series to 26%  $C_a$  due to their higher axial load ratings.

Pedestals should be fully supported on a flat, rigid surface to avoid distortion of the pedestal or deflection under load. The flatness of the supporting surface should be to tolerance IT7 according to ISO 1101 and the surface roughness not more than 12.5µm Ra.

For loads within 45° of horizontal, the base should be chocked or dowed.

Standard Cooper pedestals are manufactured from grade EN-GJL-250 grey iron to BS EN 1561 : 1997. Ductile iron and steel pedestals are also available and should be considered for shock or pulsating loads. Particulars of pedestals in alternative materials are available from our technical department.



## BEARING DATA

| Group Reference | Shaft Diameter d | Reference (I) | D (mm) | C (mm) | B/BI (mm) | Axial Float (2) (mm) | Mass (kg) |
|-----------------|------------------|---------------|--------|--------|-----------|----------------------|-----------|
| 01 108          | 35               | 01 B 35M      | 84.14  | 50.1   | 23.8      | 3.5                  | 1.2       |
|                 | 40               | 01 B 40M      |        |        |           |                      |           |
|                 | 1 3/16"          | 01 B 103      |        |        |           |                      |           |
|                 | 1 1/4"           | 01 B 104      |        |        |           |                      |           |
| 01E 200         | 45               | 01EB 45M      | 98.42  | 55.7   | 25.4      | 4                    | 1.5       |
|                 | 50               | 01EB 50M      |        |        |           |                      |           |
|                 | 1 11/16"         | 01EB 111      |        |        |           |                      |           |
|                 | 1 3/4"           | 01EB 112      |        |        |           |                      |           |
| 01E 208         | 55               | 01EB 55M      | 114.30 | 55.7   | 27.0      | 4.5                  | 1.8       |
|                 | 60               | 01EB 60M      |        |        |           |                      |           |
|                 | 65               | 01EB 65M      |        |        |           |                      |           |
|                 | 2 3/16"          | 01EB 203      |        |        |           |                      |           |
| 01E 300         | 70               | 01EB 70M      | 133.35 | 61.2   | 31.8      | 5                    | 2.5       |
|                 | 75               | 01EB 75M      |        |        |           |                      |           |
|                 | 2 3/4"           | 01EB 211      |        |        |           |                      |           |
|                 | 2 15/16"         | 01EB 212      |        |        |           |                      |           |
| 01E 308         | 80               | 01EB 80M      | 152.40 | 70.7   | 38.9      | 6                    | 4.0       |
|                 | 85               | 01EB 85M      |        |        |           |                      |           |
|                 | 90               | 01EB 90M      |        |        |           |                      |           |
|                 | 3 3/16"          | 01EB 303      |        |        |           |                      |           |
| 01E 400         | 95               | 01EB 95M      | 174.62 | 81.0   | 45.3      | 7                    | 6.0       |
|                 | 100              | 01EB 100M     |        |        |           |                      |           |
|                 | 105              | 01EB 105M     |        |        |           |                      |           |
|                 | 3 11/16"         | 01EB 311      |        |        |           |                      |           |
| 01 408          | 110              | 01 B 110M     | 203.20 | 84.9   | 46.9      | 7                    | 10.2      |
|                 | 115              | 01 B 115M     |        |        |           |                      |           |
|                 | 4 3/16"          | 01 B 403      |        |        |           |                      |           |
|                 | 4 7/16"          | 01 B 407      |        |        |           |                      |           |
| 01 500          | 120              | 01 B 120M     | 222.25 | 89.7   | 54.0      | 7                    | 12.8      |
|                 | 125              | 01 B 125M     |        |        |           |                      |           |
|                 | 130              | 01 B 130M     |        |        |           |                      |           |
|                 | 5"               | 01 B 500      |        |        |           |                      |           |
| 01 508          | 135              | 01 B 135M     | 241.30 | 98.4   | 55.6      | 8                    | 15.0      |
|                 | 140              | 01 B 140M     |        |        |           |                      |           |
|                 | 5 3/16"          | 01 B 503      |        |        |           |                      |           |
|                 | 5 7/16"          | 01 B 507      |        |        |           |                      |           |
| 01 600          | 150              | 01 B 150M     | 254.00 | 98.4   | 55.6      | 8                    | 16.6      |
|                 | 160              | 01 B 600-160M |        |        |           |                      |           |

## CARTRIDGE DATA

| Cartridge References (I) for felt seals | Cartridge References (I) for ATL seals | G (mm) | J (mm) | L/LI (mm) | Mass (kg) |
|-----------------------------------------|----------------------------------------|--------|--------|-----------|-----------|
| 01 C 35M                                | 01 C 103                               | 100.00 | 25     | 86        | 2         |
| 01 C 40M                                | 01 C 104                               |        |        |           |           |
|                                         | 01 C 107                               |        |        |           |           |
|                                         | 01 C 108                               |        |        |           |           |
| 01 C 45M                                | 01 C 111                               | 117.48 | 25     | 98        | 2.5       |
| 01 C 50M                                | 01 C 112                               |        |        |           |           |
|                                         | 01 C 115                               |        |        |           |           |
|                                         | 01 C 200                               |        |        |           |           |
| 01 C 55M                                | 01 C 203                               | 134.94 | 32     | 104       | 3.2       |
| 01 C 60M                                | 01 C 204                               |        |        |           |           |
| 01 C 65M                                | 01 C 207                               |        |        |           |           |
|                                         | 01 C 208                               |        |        |           |           |
| 01 C 70M                                | 01 C 211                               | 157.16 | 38     | 114       | 5.5       |
| 01 C 75M                                | 01 C 212                               |        |        |           |           |
|                                         | 01 C 215                               |        |        |           |           |
|                                         | 01 C 300                               |        |        |           |           |
| 01 C 80M                                | 01 C 303                               | 177.80 | 50     | 136       | 7         |
| 01 C 85M                                | 01 C 304                               |        |        |           |           |
| 01 C 90M                                | 01 C 307                               |        |        |           |           |
|                                         | 01 C 308                               |        |        |           |           |
| 01 C 95M                                | 01 C 311                               | 203.20 | 50     | 134       | 8         |
| 01 C 100M                               | 01 C 312                               |        |        |           |           |
| 01 C 105M                               | 01 C 315                               |        |        |           |           |
|                                         | 01 C 400                               |        |        |           |           |
| 01 C 110M                               | 01 C 403                               | 231.78 | 64     | 142       | 11.9      |
| 01 C 115M                               | 01 C 407                               |        |        |           |           |
|                                         | 01 C 408                               |        |        |           |           |
|                                         |                                        |        |        |           |           |
| 01 C 120M                               | 01 C 415                               | 266.70 | 76     | 156       | 19.5      |
| 01 C 125M                               | 01 C 500                               |        |        |           |           |
| 01 C 130M                               |                                        |        |        |           |           |
|                                         |                                        |        |        |           |           |
| 01 C 135M                               | 01 C 503                               | 279.40 | 76     | 168       | 20.8      |
| 01 C 140M                               | 01 C 507                               |        |        |           |           |
|                                         | 01 C 508                               |        |        |           |           |
|                                         |                                        |        |        |           |           |
| 01 C 150M                               | 01 C 515                               | 295.28 | 82     | 174       | 24.4      |
| 01 C 600-160M                           | 01 C 600                               |        |        |           |           |

1) Add 'EX' or 'GR' to reference for expansion or fixed type respectively, e.g. Bearing: 01 B 35M EX or 01 B 103 EX  
Cartridge: 01 C 35M EX or 01 C 01 EX

2) Total movement tabulated. Maximum offset from centreline half this amount