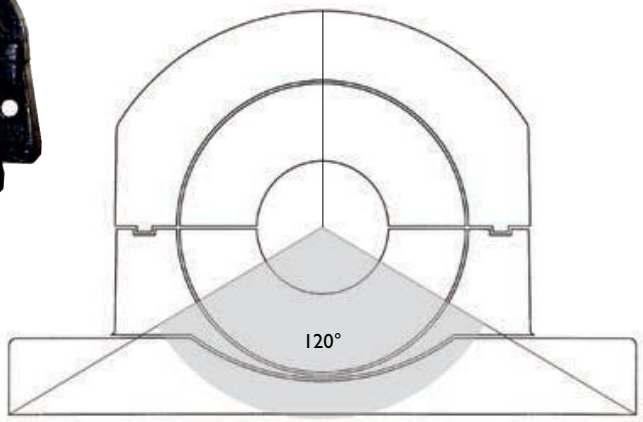


PEDESTALS

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

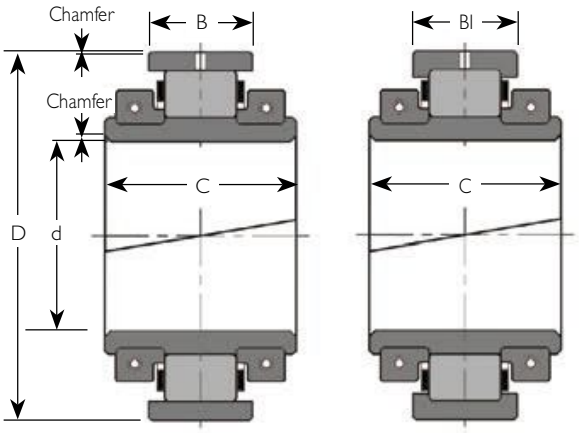
The maximum safe radial load for a pedestal is based on the static rating (Cor) of the corresponding size of roller bearing. The full static rating can be applied if the angle of the load falls within the shaded area of the sketch, except for the SNC 500 range for which the maximum load is reduced to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

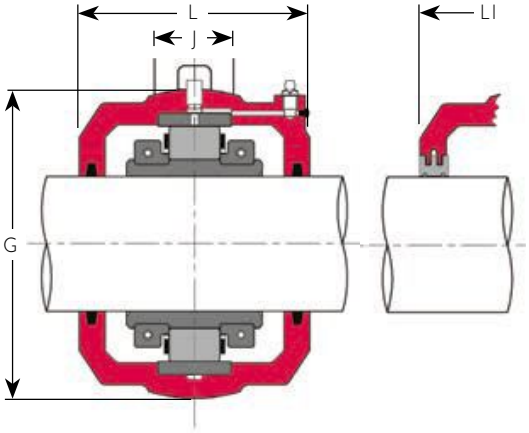
If the radial load falls outside the shaded area, if the radial load exceeds Cor, or if the axial loads exceed 50% of the axial rating (Ca) of the corresponding roller bearing please consult our technical department. For 100 Series bearings, the maximum axial load is reduced to 35% Ca and for 01E and 02E series to 26% Ca 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 dowelled.

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

CARTRIDGE DATA

Group Reference	Shaft Diameter d	Reference (1)		D (mm)	C (mm)	B Bl	Axial Float (2) (mm)	Mass (kg)	Cartridge References (1) for felt seals	for ATL seals	G (mm)	J (mm)	L/Ll (mm)	Mass (kg)
01E 608	160mm 6 7/16" 170mm 6 1/2"	01E B 160M 01E B 608-170M	01E B 607 01E B 608	273.05	109.0	60.3 60.3	8	21.0	01 C 160M 01 C 608-170M*	01 C 607 01 C 608	01 C 11*	311.15	76	172 192	30
01E 700	170mm 175mm 6 15/16" 180mm 7"	01E B 170M 01E B 175M 01E B 180M	01E B 615 01E B 700	285.75	109.0	55.5 55.5	8	23.0	01 C 170M 01 C 175M 01 C 180M	01 C 615 01 C 700	01 C 12	323.85	70	172 200	31
01E 800	190mm 7 15/16" 200mm 8"	01E B 190M 01E B 200M	01E B 715 01E B 800	311.15	109.0	60.3 60.3	8	25.0	01 C 190M 01 C 200M	01 C 715 01 C 800	01 C 13	358.78	86	172 200	41
01E 900	220mm 230mm 9"	01E B 220M 01E B 230M	01E B 900	342.90	115.0	63.5 63.5	8	32	01 C 220M 01 C 230M	01 C 900	01 C 14	387.35	82	178 216	46
01E 1000	240mm 250mm 260mm 10"	01E B 240M 01E B 250M 01E B 1000-260M	01E B 1000	374.65	122.0	66.7 66.7	9	40	01 C 240M 01 C 250M 01 C 1000-260M*	01 C 1000	01 C 15*	419.10	90	188 222	58
01E 1100	260mm 270mm 275mm 280mm 11"	01E B 260M 01E B 270M 01E B 275M 01E B 280M	01E B 1100	406.40	128.0	69.0 69.0	10	50	01 C 260M 01 C 270M 01 C 275M 01 C 280M	01 C 1100	01 C 16	454.00	95	204 232	70
01E 1200	290mm 300mm 12"	01E B 290M 01E B 300M	01E B 1200	438.15	143.0	74.6 74.6	10	60	01 C 290M 01 C 300M	01 C 1200	01 C 17	489.00	98	216 248	86

1) Add 'EX' or 'GR' to reference for expansion or fixed type respectively, e.g. **Bearing:** 01 B 160M EX or 01 B 607 EX **Cartridge:** 01 C 160M EX or 01 C 11 EX

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

* Add 'OTL' to reference for cartridge for ATL seals if the cartridge for felt seals with the same bore size is also marked*, eg 01 C 11 OTL