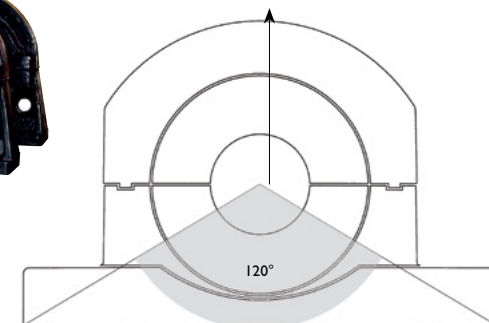
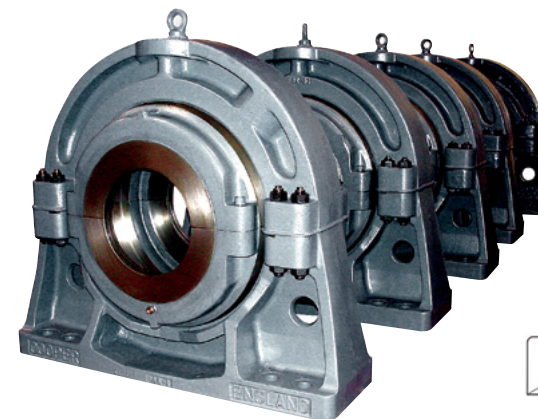




03E SERIES

Group Reference	Shaft Diameter d		Bearing Ratings			
			Cr (kN)	Cor (kN)	Ca (kN)	Max. Speed (rpm)
03 400	100mm	3 15/16" 4"	610	684	31.2	1820
03 408	110mm 120mm	4 7/16" 4 1/2"	614	698	39.2	1640
03 500	130mm	4 15/16" 5"	706	852	49.0	1500
03 508	140mm	5 7/16" 5 1/2"	886	1069	58.8	1340
03 600	150mm	5 15/16" 6"	994	1213	69.4	1220
03 608	160mm 170mm	6 7/16" 6 1/2"	1156	1564	79.2	1110
03 700	180mm	6 15/16" 7"	1242	1704	89.0	1030
03 800	190mm 200mm	7 15/16" 8"	1451	2022	99.6	880
03 900	220mm	9"	1586	2163	109.4	760
03 1000	240mm 250mm 260mm	10"	1778	2551	131	700
03E 1100	280mm	11"	2105	3233	153	620
03 1200	290mm 300mm	12"	2156	3312	174	560
03 1300	320mm	13"	2529	3795	199	500
03E 1400	340mm 360mm	14"	2750	4392	214	460
03 1500	380mm 400mm	15"	3019	4800	251	420
03E 1700	420mm 440mm	17"	3474	6006	276	360
03E 1800	460mm	18"	3650	6156	302	340
03 2000	500mm 530mm	20"	4087	7042	347	310
03E 2200	560mm	22"	4669	8511	383	280
03E 2300	600mm	23"	4887	9130	400	270



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.

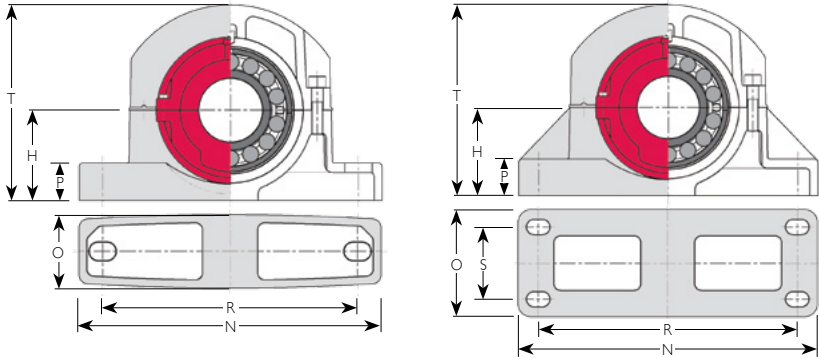
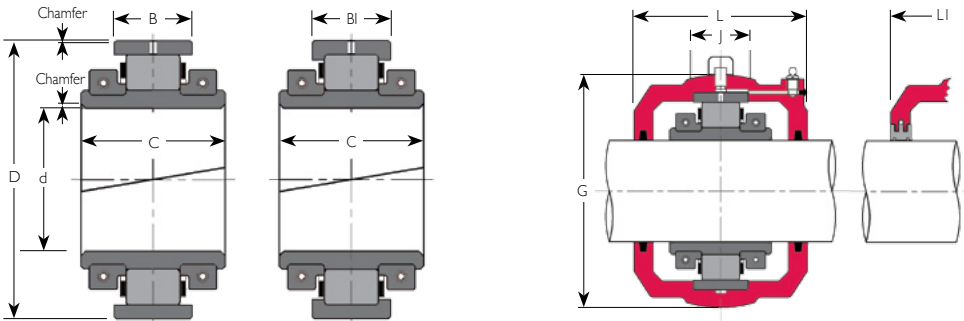
If the radial load falls outside the shaded area, if the radial load exceeds Cor, or if the axial loads exceed 50% of the axial rating (Ca) of the

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.

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 (I)		D (mm)	C (mm)	B/BI (mm)	Axial Float (2) (mm)	Mass (kg)	Cartridge References (I)		G (mm)	J (mm)	L/LI (mm)	Mass (kg)	
									for felt seals	for ATL seals					
01 108	35	1 3/16"	01 B 103	84.14	50.1	23.8	3.5	1.2	01 C 103	01 C 101	100.00	25	86	2	
	40	1 1/4"	01 B 104						01 C 104	01 C 102					
		1 7/16"	01 B 107						01 C 107						
		1 1/2"	01 B 108						01 C 108						
01E 200	45	1 11/16"	01EB 111	98.42	55.7	25.4	4	1.5	01 C 111	01 C 02	117.48	25	98	2.5	
	50	1 3/4"	01EB 112						01 C 112						
		1 15/16"	01EB 115						01 C 115						
		2"	01EB 200						01 C 200						
01E 208	55	2 3/16"	01EB 203	114.30	55.7	27.0	4.5	1.8	01 C 203	01 C 03	134.94	32	104	3.2	
	60	2 1/4"	01EB 204						01 C 204						
	65	2 7/16"	01EB 207						01 C 207						
		2 1/2"	01EB 208						01 C 208						
01E 300	70	2 11/16"	01EB 211	133.35	61.2	31.8	5	2.5	01 C 211	01 C 04	157.16	38	114	5.5	
	75	2 3/4"	01EB 212						01 C 212						
		2 15/16"	01EB 215						01 C 215						
		3"	01EB 300						01 C 300						
01E 308	80	3 3/16"	01EB 303	152.40	70.7	38.9	6	4.0	01 C 303	01 C 05	177.80	50	136	7	
	85	3 1/4"	01EB 304						01 C 304						
	90	3 7/16"	01EB 307						01 C 307						
		3 1/2"	01EB 308						01 C 308						
01E 400	95	3 11/16"	01EB 311	174.62	81.0	45.3	7	6.0	01 C 311	01 C 06	203.20	50	134	8	
	100	3 3/4"	01EB 312						01 C 312						
	105	3 15/16"	01EB 315						01 C 315						
		4"	01EB 400						01 C 400						
01 408	110	4 3/16"	01 B 403	203.20	84.9	46.9	7	10.2	01 C 403	01 C 07	231.78	64	142	11.9	
	115	4 7/16"	01 B 407						01 C 407						
		4 1/2"	01 B 408						01 C 408						
01 500	120	4 15/16"	01 B 415	222.25	89.7	54.0	7	12.8	01 C 415	01 C 08	266.70	76	156	19.5	
	125	5"	01 B 500						01 C 415						
	130		01 B 500						01 C 500						
01 508	135	5 3/16"	01 B 503	241.30	98.4	55.6	8	15.0	01 C 503	01 C 09	279.40	76	168	20.8	
	140	5 7/16"	01 B 507						01 C 507						
		5 1/2"	01 B 508						01 C 508						
01 600	150	5 15/16"	01 B 515	254.00	98.4	55.6	8	16.6	01 C 515	01 C 10*	295.28	82	174	24.4	
	160	6"	01 B 600-160M						01 C 600						

PEDESTAL DATA													Shaft Diameter d	Group Reference
Reference	H (mm)	Min. (mm)	Max. (mm)	Ro (mm)	S (mm)	Bolts	N (mm)	O (mm)	P (mm)	T (mm)	Mass (Kg)			
P01	60	172	192	-	-	2-off M12 or 1/2"	228	60	22	138	2.5		1 3/16"	01 108
P02	70	203	227	-	-	2-off M16 or 5/8"	270	60	25	158	3.2		1 11/16"	01E 200
P03	80	226	242	-	-	2-off M16 or 5/8"	280	70	32	180	4.9		2 3/16"	01E 208
P04	95	260	280	-	-	2-off M20 or 3/4"	330	76	38	208	6.9		2 11/16"	01E 300
P05	112	312	328	-	-	2-off M24 or 7/8"	380	90	44	252	13.3		3 3/16"	01E 308
P06	125	342	366	-	-	2-off M24 or 7/8"	420	102	52	272	14.7		3 11/16"	01E 400
P07	143	374	410	-	-	2-off M24 or 7/8"	466	120	60	314	20.6		4 3/16"	01 408
P08	162	438	462	-	120	4-off M24 or 7/8"	508	178	38	372	43.3		4 15/16"	01 500
P09	181	470	494	-	120	4-off M24 or 7/8"	558	178	41	405	52		5 3/16"	01 508
P10	181	484	508	-	120	4-off M24 or 7/8"	558	178	41	415	54		5 15/16"	01 600

- 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

* 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 10 OTL.