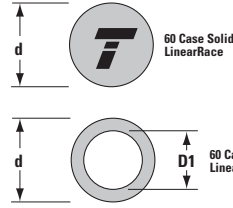
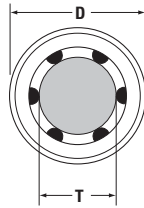
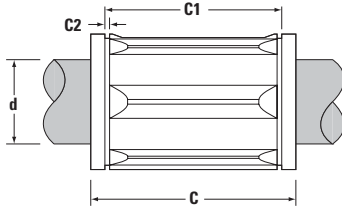
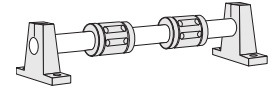


Inch – Precision Steel Ball Bushing Bearings

Precision Steel Ball Bushing Bearings (Closed Type) for End Supported Applications



Sizes .250 thru 1.00 available in
Corrosion Resistant Stainless Steel

Precision Steel Ball Bushing Bearings (Closed Type) and 60 Case LinearRace (Dimensions in inches)

Part Number ⁽²⁾		60 Case Linear Race	Nominal Diameter	Length C	Distance Between Retaining Grooves C1	Retaining Ring Groove min. C2	Number of Ball Circuits	D	60 Case Solid LinearRace Mass lb/in	60 Case Tubular Lite LinearRace Mass lb/in	60 Case Tubular Lite LinearRace ID D1
Precision Steel Ball Bushing Bearings											
w/o Seals	with Seals										
A4812	–	1/4 S	.250	.750/.735	.515/.499	.039	3	.5000/.4996	.01	–	–
A61014	–	3/8 S	.375	.875/.860	.640/.624	.039	4	.6250/.6246	.03	–	–
A81420	A81420DD	1/2 S	.500	1.250/1.235	.967/.951	.046	4	.8750/.8746	.06	–	–
A101824	–	5/8 S	.625	1.500/1.485	1.108/1.092	.056	4	1.1250/1.1246	.09	–	–
A122026	A122026DD	3/4 S	.750	1.625/1.610	1.170/1.154	.056	5	1.2500/1.2496	.13	.08	.46/.41
A162536	A162536DD	1 S	1.000	2.250/2.235	1.759/1.741	.068	5	1.5625/1.5621	.22	.16	.62/.56
A203242	–	1 1/4 S	1.250	2.625/2.605	2.009/1.991	.068	6	2.0000/1.9995	.35	–	–
A243848	–	1 1/2 S	1.500	3.000/2.980	2.415/2.397	.086	6	2.3750/2.3745	.50	.33	.93/.84
A324864	–	2 S	2.000	4.000/3.980	3.195/3.177	.103	6	3.0000/2.9994	.89	.54	1.31/1.18
A406080	–	2 1/2 S	2.500	5.000/4.975	3.978/3.958	.120	6	3.7500/3.7492	1.39	.75	1.84/1.66
A487296	–	3 S	3.000	6.000/5.970	4.728/4.708	.120	6	4.5000/4.4990	2.00	1.11	2.20/1.80
A6496128	–	4 S	4.000	8.000/7.960	6.265/6.235	.139	6	6.0000/5.9988	3.56	1.56	3.30/2.70

Part Number ⁽²⁾		Working Bore Diameter T	Recommended Housing Bore		60 Case LinearRace Diameter d	Precision Steel Ball Bushing Bearing/ LinearRace Fit Up ‡	Precision Steel Ball Bushing Bearing Mass lb	Dynamic ⁽¹⁾ Load Capacity lb _f
Precision Steel Ball Bushing Bearings			Normal Fit	Press Fit				
w/o Seals	with Seals							
A4812	–	.2500/.2495	.5005/.5000	.4995/.4990	.2490/.2485	.0015C/.0005C	.02	19
A61014	–	.3750/.3745	.6255/.6250	.6245/.6240	.3740/.3735	.0015C/.0005C	.06	37
A81420	A81420DD	.5000/.4995	.8755/.8750	.8745/.8740	.4990/.4985	.0015C/.0005C	.08	85
A101824	–	.6250/.6245	1.1255/1.1250	1.1245/1.1240	.6240/.6235	.0015C/.0005C	.16	150
A122026	A122026DD	.7500/.7495	1.2505/1.2500	1.2495/1.2490	.7490/.7485	.0015C/.0005C	.21	200
A162536	A162536DD	1.0000/.9995	1.5630/1.5625	1.5620/1.5615	.9990/.9985	.0015C/.0005C	.38	350
A203242	–	1.2500/1.2494	2.0010/2.0000	1.9993/1.9983	1.2490/1.2485	.0015C/.0004C	1.10	520
A243848	–	1.5000/1.4994	2.3760/2.3750	2.3743/2.3733	1.4989/1.4984	.0016C/.0005C	1.43	770
A324864	–	2.0000/1.9992	3.0010/3.0000	2.9992/2.9982	1.9987/1.9980	.0020C/.0005C	2.75	1100
A406080	–	2.5000/2.4990	3.7510/3.7500	Not Normally Recommended	2.4985/2.4977	.0023C/.0005C	5.50	1800
A487296	–	3.0000/2.9988	4.5010/4.5000		2.9983/2.9974	.0026C/.0005C	9.50	2600
A6496128	–	4.0000/3.9980	6.0010/6.0000		3.9976/3.9964	.0036C/.0004C	20.20	5000

⁽¹⁾ The Dynamic Load Capacity is based on a rated travel life of 2 million inches.

The actual Dynamic Load Capacity can be affected by the orientation of the bearing or the direction of the applied load. For dynamic load correction factors see polar graphs below.

⁽²⁾ For part number description and specifications see page 71.

Note: Precision Steel Ball Bushing Bearings are available in corrosion resistant stainless steel in diameters up to 1 inch. Dynamic load ratings are reduced by 30% when using stainless steel Ball Bushing Bearings. For additional technical information, see the Engineering section beginning on page 262.

‡ P = Preload, C = Clearance