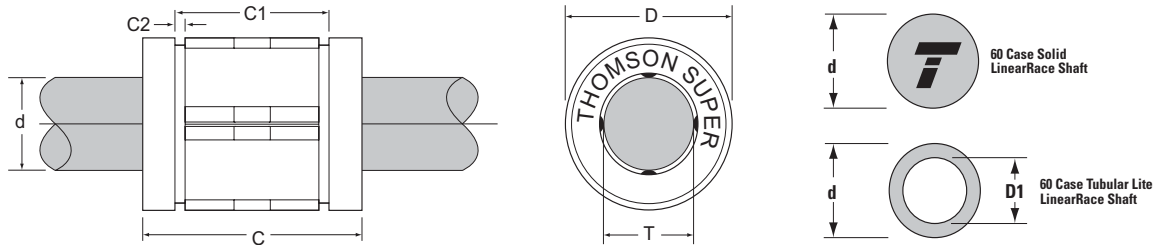
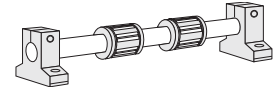


Inch – Super Ball Bushing Bearings

Super Ball Bushing Bearings (Closed Type) for End Supported Applications



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

| Part Number ⁽²⁾ | | Nominal Diameter | Length C | Distance Between Retaining Ring Grooves C1 | Retaining Ring Groove min. C2 | Number of Ball Circuits | Ball Bushing Bearing Mass lb | 60 Case LinearRace Minimum Depth of Hardness | 60 Case Solid LinearRace Mass lb/in | 60 Case Tubular Lite LinearRace Mass lb/in | 60 Case Tubular Lite LinearRace ID D1 |
|----------------------------|---------------------|------------------|-------------|--|-------------------------------|-------------------------|------------------------------|--|-------------------------------------|--|---------------------------------------|
| Ball Bushing Bearing | 60 Case Linear Race | | | | | | | | | | |
| SUPER 3 | 3/16 L | .188 | .562/.547 | – | – | 4 | .003 | .027 | .008 | – | – |
| SUPER 4 | 1/4 L | .250 | .750/.735 | .511/.501 | .039 | 4 | .01 | .027 | .01 | – | – |
| SUPER 6 | 3/8 L | .375 | .875/.860 | .699/.689 | .039 | 4 | .02 | .027 | .03 | – | – |
| SUPER 8 | 1/2 L | .500 | 1.250/1.230 | 1.032/1.012 | .050 | 4 | .04 | .04 | .06 | – | – |
| SUPER 10 | 5/8 L | .625 | 1.500/1.480 | 1.105/1.095 | .056 | 5 | .10 | .04 | .09 | – | – |
| SUPER 12 | 3/4 L | .750 | 1.625/1.605 | 1.270/1.250 | .056 | 6 | .14 | .06 | .13 | .08 | .46/.41 |
| SUPER 16 | 1 L | 1.000 | 2.250/2.230 | 1.884/1.864 | .070 | 6 | .25 | .08 | .22 | .16 | .62/.56 |
| SUPER 20 | 1 1/4 L | 1.250 | 2.625/2.600 | 2.004/1.984 | .068 | 6 | .45 | .08 | .35 | – | – |
| SUPER 24 | 1 1/2 L | 1.500 | 3.000/2.970 | 2.410/2.390 | .086 | 6 | .85 | .08 | .50 | .33 | .93/.84 |
| SUPER 32 | 2 L | 2.000 | 4.000/3.960 | 3.193/3.163 | .105 | 6 | 1.45 | .10 | .89 | .54 | 1.31/1.18 |

| Part Number ⁽²⁾ | Working Bore Diameter T | Recommended Housing Bore | | 60 Case LinearRace Diameter d | Ball Bushing Bearing/LinearRace Fit Up ‡ | | Dynamic ⁽¹⁾ Load Capacity lb _f |
|----------------------------|-------------------------|--------------------------|---------------|-------------------------------|--|---|--|
| | | Fixed D | Adjustable D | | Fixed Diameter Housing | Adjustable Diameter Housing (Before Adjustment) | |
| SUPER 3 | .1875/.1870 | .3755/.3750 | .3760/.3750 | .1870/.1865 | .0015C/.0000 | .002C/.0000 | 35 |
| SUPER 4 | .2500/.2495 | .5005/.5000 | .5010/.5000 | .2495/.2490 | .0015C/.0000 | .002C/.0000 | 60 |
| SUPER 6 | .3750/.3745 | .6255/.6250 | .6260/.6250 | .3745/.3740 | .0015C/.0000 | .002C/.0000 | 100 |
| SUPER 8 | .5000/.4995 | .8755/.8750 | .8760/.8750 | .4995/.4990 | .0015C/.0000 | .002C/.0000 | 255 |
| SUPER 10 | .6250/.6245 | 1.1255/1.1250 | 1.1260/1.1250 | .6245/.6240 | .0015C/.0000 | .002C/.0000 | 450 |
| SUPER 12 | .7500/.7495 | 1.2505/1.2500 | 1.2510/1.2500 | .7495/.7490 | .0015C/.0000 | .002C/.0000 | 600 |
| SUPER 16 | 1.0000/.9995 | 1.5630/1.5625 | 1.5635/1.5625 | .9995/.9990 | .0015C/.0000 | .002C/.0000 | 1050 |
| SUPER 20 | 1.2500/1.2494 | 2.0008/2.0000 | 2.0010/2.0000 | 1.2495/1.2490 | .0018C/.0001P | .002C/.0001P | 1500 |
| SUPER 24 | 1.5000/1.4994 | 2.3760/2.3750 | 2.3760/2.3750 | 1.4994/1.4989 | .0021C/.0000 | .0021C/.0000 | 2000 |
| SUPER 32 | 2.0000/1.9992 | 3.0010/3.0000 | 3.0010/3.0000 | 1.9994/1.9987 | .0023C/.0002P | .0023C/.0002P | 3000 |

‡ P = Preload, C = Clearance

(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 48.

Note: For additional technical information, see the Engineering section beginning on page 262.