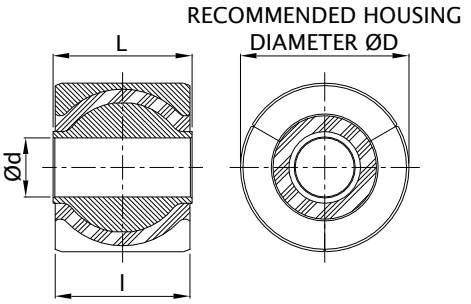
GMT RUBBER-METAL-TECHNIC LTD Tel: (+44)(0)1943 870670 Fax: (+44)(0)1943 870631 E-mail: sales@gmtrubber.com www.gmtrubber.com

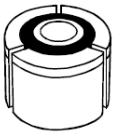
Spherical Bearings

A range of standard sizes available with parallel or tapered bores, or with extended lugs (trunnion) to offer alternative methods of fitment. If parts not held in stock minimum order quantities may apply.

Segmented Spherical Bearing



GMT Segmented Spherical bearings consist of an inner metal bonded to rubber which is also bonded to three outer metal segments. Each of the outer metal segments is bonded such that there is a gap between each of the segments. When installed into the recommended housing diameter the three outer segments will close up together to form a concentric cylinder to equal the housing. This process also pre-compresses the rubber helping to improve the life of the part.



Dimensions and Technical data

Product Code	ØD mm	Ød mm	L mm	l mm	Radial Stiffness kN/mm	Normal Radial Load kN	Torsional Stiffness kNm/rad	Normal Torsional Movement °	Conical Stiffness kNm/rad	Normal Conical Movement °	Max Mechanical °
SPH-SB1119-57	66.70 66.66	25.4	54.0	47.9	70.0	33.3	0.9	8.0°	0.9	± 6.0°	± 10°
SPH-SB1120-57	90.51 90.47	28.6	76.0	70.0	92.8	57.7	2.8	8.0°	2.8	± 6.0°	± 9.0°
SPH-SB2184-57	90.51 90.47	29.9	76.0	70.0	92.8	57.7	2.8	8.0°	2.8	± 6.0°	± 9.0°
SPH-SB1121-57	104.80 104.76	38.1	82.5	76.2	88.0	71.2	4.0	8.0°	4.0	± 7.0°	± 10.0°
SPH-SB2473-57	127.04 126.98	44.5	104.8	101.6	88.0	110.8	6.8	10.0°	5.7	± 7.0°	± 11.0°
SPH-SB2140-68	127.04 126.98	50.0	104.8	101.6	88.0	110.8	6.8	10.0°	5.7	± 7.0°	± 11.0°

Note: There is a possible deviation of approx ±20% in the above values due to production and hardness tolerances

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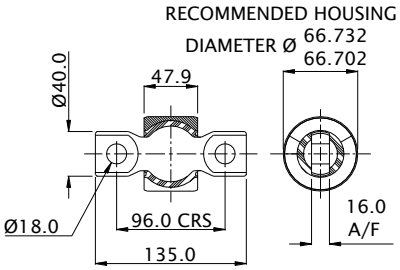
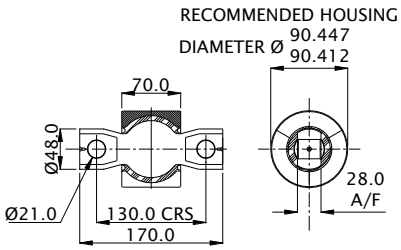
Spherical Bearings with Lugs (Trunnion)



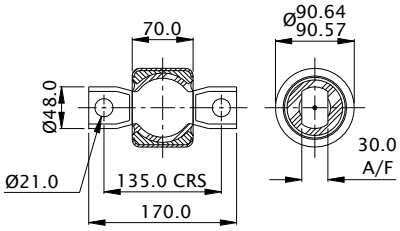
SPH-SB2130

Note: Segmented

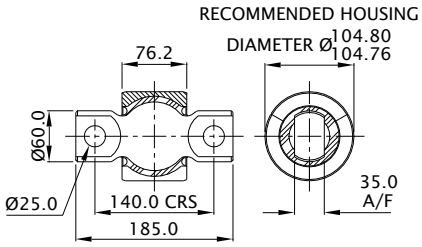


SPH-SB2179

Note: Segmented



SPH-SB1615



SPH-SB1233

Note: Segmented

Technical Data

Part No.	Radial Stiffness kN/mm	Normal Radial Load kN	Torsional Stiffness kNm/rad	Normal Torsional Movement °	Conical Stiffness kNm/rad	Normal Conical Movement °	Max Mechanical °
SPH-SB2130-60	50.0	25.0	0.7	12°	0.6	±10°	±14°
SPH-SB2179-57	tbd	tbd	tbd	tbd	tbd	tbd	tbd
SPH-SB1615-68	105.2	63.1	3.6	5.0°	3.3	± 4.0°	±15.0°
SPH-SB1233-57	88.0	71.2	4.0	8.0°	4.0	± 7.0°	±10.0°

Note: There is a possible deviation of approx ±20% in the above values due to production and hardness tolerances

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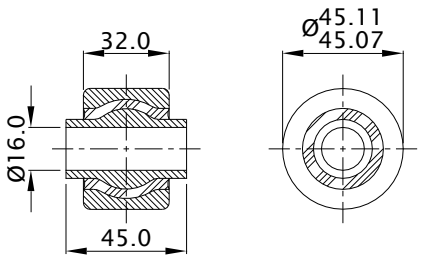
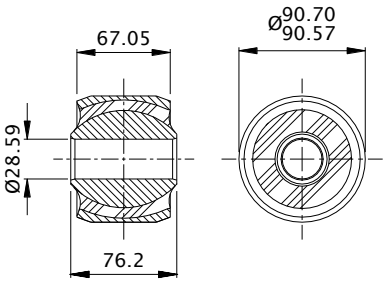
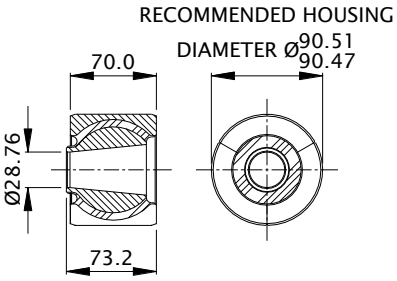
Special Spherical Bearings



SPH-SB1187

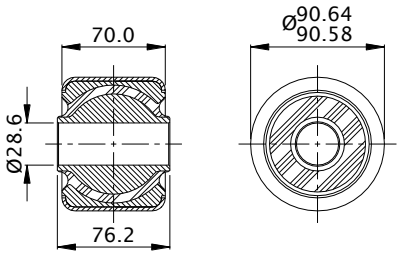


SPH-SB1256

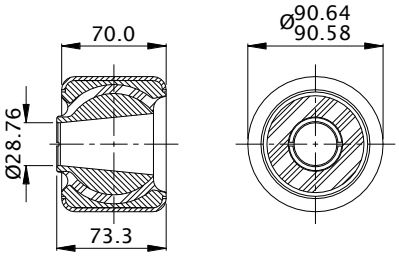


SPH-SB1368

Note: Segmented



SPH-SB1195



SPH-SB1616

Technical Data

Part No.	Radial Stiffness kN/mm	Normal Radial Load kN	Torsional Stiffness kNm/rad	Normal Torsional Movement °	Conical Stiffness kNm/rad	Normal Conical Movement °	Max Mechanical °
SPH-SB1187-57	18.7	6.5	0.16	8.0°	0.15	± 2.0°	—
SPH-SB1256-57	41.5	33.6	2.0	9.0°	1.9	± 9.0°	—-
SPH-SB1368-57	92.8	57.7	2.8	8.0°	2.8	± 6.0°	± 9.0°
SPH-SB1195-68	105.2	63.1	3.6	5.0°	3.3	± 4.0°	± 15.0°
SPH-SB1616-68	105.2	63.1	3.6	5.0°	3.3	± 4.0°	± 15.0°

Note: There is a possible deviation of approx ±20% in the above values due to production and hardness tolerances