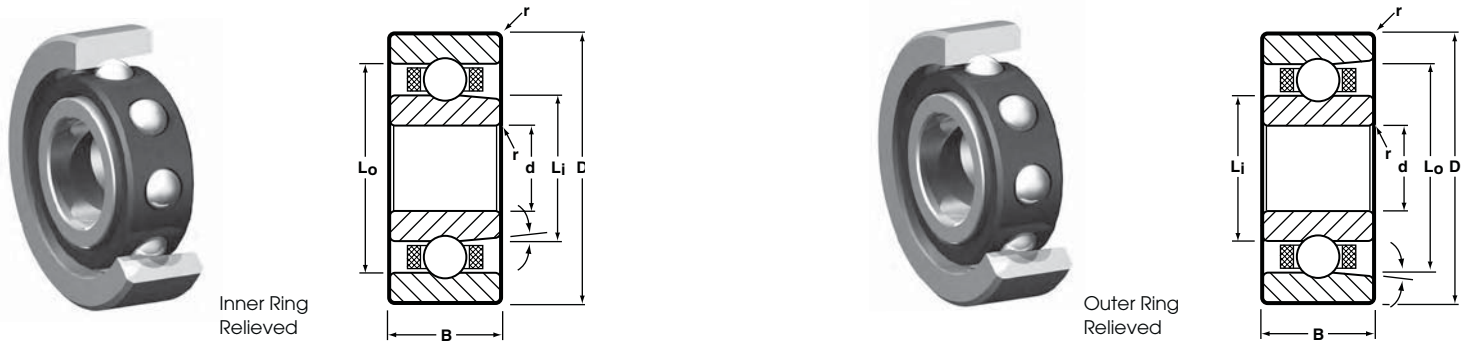


Angular Contact



BASIC P/N	STANDARD CAGE AVAILABILITY	BORE d		O.D. D		WIDTH B		LAND DIAMETER (REFERENCE)		FILLET RADIUS r	BALL COMPLEMENT		LOAD RATINGS** LBS.	
		INCH	(mm)	INCH	(mm)	INCH	(mm)	Li	Lo		NO. Z	SIZE Db	DYN. C	STATIC Co
SSMDR-620MC	KN/M4	.0787	<b>2.000</b>	.2362	<b>6.000</b>	.0906	<b>2.301</b>	.124	.186	.003	7	.0394	29	10
SSMBRI-5SD502	KM	<b>.0937</b>	2.380	<b>.3125</b>	7.938	<b>.1094</b>	2.779	.157	.246	.005	6	1/16	60	2
MBRI-5SD507	KM	<b>.0937</b>	2.380	<b>.3125</b>	7.938	<b>.1094</b>	2.779	.157	.246	.005	6	1/16	60	22
SSMDRI-418X	M4	<b>.1250</b>	3.175	<b>.2500</b>	6.350	<b>.0937</b>	2.380	.166	.220	.003	8	.0394	33	12
SSMDRI-418ZWO5MC ■	M4	<b>.1250</b>	3.175	<b>.2500</b>	6.350	<b>.1094</b>	2.779	.166	.220	.003	7	.0394	33	12
SSMBR-2	KN	<b>.1250</b>	3.175	<b>.3750</b>	9.525	<b>.1562</b>	3.967	.205	.292	.012	7	1/16	66	26
SSMEL-740SD503MC ■	M4	<b>.1250</b>	3.175	.2756	<b>7.000</b>	.0787	<b>2.000</b>	.189	.232	.003	9	.0394	23	9
SSMDL-740MC	KM/M4	.1575	<b>4.000</b>	.2756	<b>7.000</b>	.0787	<b>2.000</b>	.189	.232	.003	7	1/32	19	7
MBR-1640SD509	KN	.1575	<b>4.000</b>	.6299	<b>16.000</b>	.1969	<b>5.000</b>	.300	.596	.016	6	1/8	200	85
MBR-3SD511	KN	<b>.1875</b>	4.763	<b>.5000</b>	12.700	<b>.1562</b>	3.967	.276	.412	.012	8	3/32	159	70
MER-3SD509	KN	<b>.1875</b>	4.763	<b>.5000</b>	12.700	<b>.1562</b>	3.967	.276	.412	.012	8	3/32	152	67
SSMER-3SD509	KN	<b>.1875</b>	4.763	<b>.5000</b>	12.700	<b>.1562</b>	3.967	.276	.412	.012	8	3/32	152	67
MER-1650SD505	KM	.1969	<b>5.000</b>	.6299	<b>16.000</b>	.1969	<b>5.000</b>	.308	.478	.016	6	1/8	200	85
MER-1960	KM	.2362	<b>6.000</b>	.7480	<b>19.000</b>	.2362	<b>6.000</b>	.383	.596	.016	6	5/32	338	154
SSMBR-4	KN	<b>.2500</b>	6.350	<b>.6250</b>	15.875	<b>.1960</b>	4.978	.375	.502	.012	8	3/32	159	70
SSMER-4SD504	KM	<b>.2500</b>	6.350	<b>.6250</b>	15.875	<b>.1960</b>	4.978	.375	.502	.012	9	3/32	172	79
SSMDR-4ZSD501	KM	<b>.2500</b>	6.350	<b>.6250</b>	15.875	<b>.1960</b>	4.978	.375	.522	.012	8	1/8	381	194
MER-2280SD503	KM	.3150	<b>8.000</b>	.8661	<b>22.000</b>	.2756	<b>7.000</b>	.478	.690	.016	9	5/32	640	375
SSMER-2280SD502	KM	.3150	<b>8.000</b>	.8661	<b>22.000</b>	.2756	<b>7.000</b>	.478	.690	.016	9	5/32	640	375
SSMER-2490	KM	.3543	<b>9.000</b>	.9449	<b>24.000</b>	.2756	<b>7.000</b>	.559	.772	.016	10	5/32	663	376
SSMER-2690	KM	.3543	<b>9.000</b>	1.0236	<b>26.000</b>	.3150	<b>8.000</b>	.583	.836	.016	9	3/16	903	505
SSMBRI-1438	KM	<b>.3750</b>	9.525	<b>.8750</b>	22.225	<b>.2188</b>	5.558	.520	.742	.016	7	5/32	569	273
SSMERI-1438	KM	<b>.3750</b>	9.525	<b>.8750</b>	22.225	<b>.2188</b>	5.558	.520	.731	.016	9	5/32	671	351
SSMERI-1878SD502	KV	<b>.8750</b>	22.225	<b>1.1250</b>	28.575	<b>.1562</b>	3.967	1.041	.970	.010	32	1/16	186	170

Notes:

1. Inch to metric conversion—see page 63.
  2. See page 61 for ABEC tolerances.
  3. r=Maximum shaft or housing fillet radius that bearing corners will clear.
  4. Please consult with factory for machined cage options.
  5. Metric/inch conversions are given for reference only.
- Also available in flanged version. Please consult with factory.
  - \*\* Load ratings are based on ABMA Standard #12.

**CUSTOM SPECIALTY BEARINGS** have been developed for applications that require precise running accuracy and high speed capability, with the option of autoclavability. The machined Torlon® cage, designated as retainer option (M4, M5), is proven to withstand repeated autoclaving. This machined Torlon® retainer also has the option of a patented silver coating, which extends operational life in marginally lubricated applications and provides an added benefit with the antimicrobial properties of the silver coating.

These bearings are widely used in critical dental/medical applications, although they are ideally suited for any high speed (up to 500,000 rpm)

application. The design of these bearings incorporates the advantage of ultra-precision tolerances, a geometrically balanced design, super finished raceways, improved ball grade and a variety of retainer options.

The standard cage options are noted by chassis size, although there are numerous other materials available that can be used to optimize performance specific to your unique application. All of the sizes listed represent current production sizes, although almost any part can be designed to take advantage of the operating characteristics of our Custom Specialty Bearings.

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