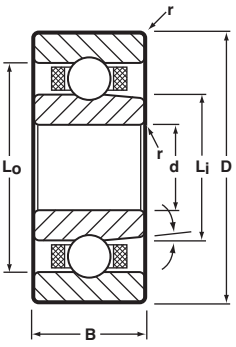
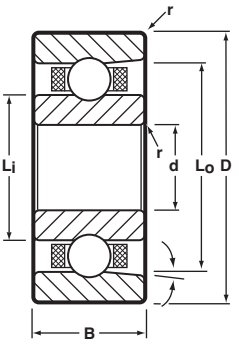
Angular Contact

Inner Ring Relieved



Outer Ring Relieved



BASIC P/N	CAGE TYPE *	BORE d		O.D. D		WIDTH B		LAND DIAMETER (REFERENCE)		FILLET RADIUS r	BALL COMPLEMENT		LOAD RATINGS** LB.	
		INCH	(mm)	INCH	(mm)	INCH	(mm)	L_i	L_o		NO. Z	SIZE D_b	DYN. C	STATIC C_o
SSMDR-620MC	KN/M4	.0787	**2.000**	.2362	**6.000**	.0906	**2.301**	.124	.186	.003	7	.0394	37	11
DSMDRI-418X	M4	**.1250**	3.175	**.2500**	6.350	**.0937**	2.380	.166	.220	.003	8	.0394	42	13
DSMDRI-418ZWO5MC ■	M4	**.1250**	3.175	**.2500**	6.350	**.1094**	2.779	.166	.220	.003	7	.0394	42	13
SSMBR-2	KN	**.1250**	3.175	**.3750**	9.525	**.1562**	3.967	.205	.292	.012	7	1/16	84	28
MER-3SD509	KN	**.1875**	4.763	**.5000**	12.700	**.1562**	3.967	.276	.412	.012	8	3/32	193	69
SSMER-3SD509	KN	**.1875**	4.763	**.5000**	12.700	**.1562**	3.967	.276	.412	.012	8	3/32	193	69
MER-1960	KM	.2362	**6.000**	.7480	**19.000**	.2362	**6.000**	.383	.596	.016	6	5/32	440	154
SSMER-4SD504	KM	**.2500**	6.350	**.6250**	15.875	**.1960**	4.978	.375	.502	.012	9	3/32	217	85
SSMDR-4ZSD501	KM	**.2500**	6.350	**.6250**	15.875	**.1960**	4.978	.375	.522	.012	8	1/8	491	204
SSMER-2280SD502	KM	.3150	**8.000**	.8661	**22.000**	.2756	**7.000**	.478	.690	.016	9	5/32	768	345
SSMERI-1038	KM	**.3750**	9.525	**.6250**	15.875	**.1562**	3.967	.458	.542	.010	16	1/16	169	93
SSMERI-1438	KM	**.3750**	9.525	**.8750**	22.225	**.2188**	5.558	.520	.731	.016	9	5/32	798	380
MER-1900	KV	.3937	**10.000**	.8661	**22.000**	.2362	**6.000**	.570	.734	.012	11	1/8	747	383
MER-100	KM	.3937	**10.000**	1.0236	**26.000**	.3150	**8.000**	.583	.836	.012	9	3/16	1251	608
SSMDR-1901	KV	.4724	**12.000**	.9449	**24.000**	.2362	**6.000**	.630	.799	.012	11	9/64	908	489
SSMERI-1458SD501	KM	**.6250**	15.875	**.8750**	22.225	**.1562**	3.967	.713	.797	.010	24	1/16	216	160
SSMERI-1634SD501	KM	**.7500**	19.050	**1.0000**	25.400	**.1562**	3.967	.837	.922	.010	30	1/16	265	229
SSMERI-1878SD502	KV	**.8750**	22.225	**1.1250**	28.575	**.1562**	3.967	1.041	.970	.010	32	1/16	246	227

Notes:

1. Inch to metric conversion—see page 68.
2. See page 63 for ABEC tolerances.
3. r=Maximum shaft or housing fillet radius that bearing corners will clear.
4. Metric/inch conversions are given for reference only.

∗ Please consult with factory for machined cage options.

■ 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 application (up to 500,000 rpm). 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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