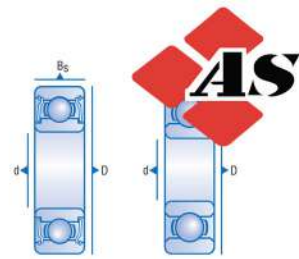


Deep Groove Instrument (Inch)

Bore Diameters: 1.191mm to 4.762mm

- Open, shielded and sealed
- Tolerances to ABEC 7P (see pages 96 to 101)



Basic Bearing Number	Bore Diameter		Outside Diameter		Width				Maximum Shaft/Housing Radius Which Bearing Corner Will Clear		nd ²	Static Capacity		Basic Dynamic Load Rating	Bearing Nomenclature			Attainable Speeds (RPM) by Cage Option Page 66-67				
	d		D		B		Bs		r Max.			Radial	Thrust		C (N)	Open	Shielded	Flexeal	Standard Snap In Cage**	2-Piece Ribbon Cage**	TA Cage**	
	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm		C ₀ (N)	T ₀ (N)								Oil	Grease
SR0	0.0469	1.191	0.1562	3.967	0.0625	1.588	0.0937	2.380	0.003	0.08	0.0059	13	36	85	SR0	SR0SS	-	-	180,000	-	-	
SR1	0.0550	1.397	0.1875	4.762	0.0781	1.984	0.1094	2.779	0.003	0.08	0.0093	22	53	129	SR1	SR1SS	-	-	140,000	-	-	
SR1-4	0.0781	1.984	0.2500	6.350	0.0937	2.380	0.1406	3.571	0.003	0.08	0.0124	31	89	169	SR1-4	SR1-4SS	-	100,000	100,000	220,000	220,000	
SR133*	0.0937	2.380	0.1875	4.762	0.0625	1.588	0.0937	2.380	0.003	0.08	0.0078	18	58	111	SR133	SR133SS	-	105,000	105,000	200,000	200,000	
SR143	0.0937	2.380	0.2500	6.350	0.0937	2.380	0.1094	2.779	0.003	0.08	0.0124	31	89	169	SR143	SR143SS	-	80,000	80,000	220,000	220,000	
SR1-5	0.0937	2.380	0.3125	7.938	0.1094	2.779	0.1406	3.571	0.003	0.08	0.0234	44	89	254	SR1-5	SR1-5SS	-	75,000	-	200,000	200,000	
SR144*	0.1250	3.175	0.2500	6.350	0.0937	2.380	0.1094	2.779	0.003	0.08	0.0124	31	89	169	SR144	SR144SS	-	80,000	80,000	220,000	220,000	
SR144X3	0.1250	3.175	0.2500	6.350	-	-	0.0937	2.380	0.003	0.08	0.0124	31	89	169	-	SR144SSX3	-	80,000	80,000	220,000 [†]	220,000 [†]	
SR2-5X2	0.1250	3.175	0.3125	7.938	-	-	0.1094	2.779	0.003	0.08	0.0234	44	89	254	-	SR2-5SX2 [†]	-	75,000	75,000	-	-	
SR154X1	0.1250	3.175	0.3125	7.938	-	-	0.1094	2.779	0.003	0.08	0.0124	31	89	169	-	SR154SSX1	-	80,000	80,000	220,000	220,000	
SR2-5	0.1250	3.175	0.3125	7.938	0.1094	2.779	0.1406	3.571	0.003	0.08	0.0234	44	89	254	SR2-5	SR2-5SS	SR2-5FF	75,000	75,000	200,000	200,000	
SR2X52	0.1250	3.175	0.3750	9.525	-	-	0.1094	2.779	0.006	0.15	0.0171	31	89	169	-	SR2SSX52	-	70,000	70,000	-	-	
SR2-6	0.1250	3.175	0.3750	9.525	0.1094	2.779	0.1406	3.571	0.006	0.15	0.0273	71	133	356	SR2-6	SR2-6SS	-	65,000	65,000	-	-	
SR164X3	0.1250	3.175	0.3750	9.525	-	-	0.0937	2.380	0.003	0.08	0.0124	31	89	169	-	SR164SSX3	-	80,000	80,000	220,000	220,000	
SR2	0.1250	3.175	0.3750	9.525	0.1562	3.967	0.1562	3.967	0.012	0.30	0.0273	44	102	294	SR2	SR2SS	SR2FF	65,000	65,000	160,000	160,000	
SR174X5	0.1250	3.175	0.4100	10.414	-	-	0.0937	2.380	0.003	0.08	0.0124	31	89	169	-	SR174SSX5	-	70,000	70,000	220,000 [†]	220,000 [†]	
SR174X2	0.1250	3.175	0.4250	10.795	-	-	0.1094	2.779	0.006	0.15	0.0171	44	111	200	-	SR174SSX2	-	70,000	70,000	220,000 [†]	220,000 [†]	
SR184X2	0.1250	3.175	0.5000	12.700	-	-	0.1094	2.779	0.003	0.08	0.0124	31	89	169	-	SR184SSX2	-	80,000	80,000	200,000	200,000	
SR2A	0.1250	3.175	0.5000	12.700	0.1719	4.366	0.1719	4.366	0.012	0.30	0.0273	44	102	294	SR2A	SR2ASS	SR2AFF	50,000	50,000	140,000	140,000	
SR1204X1	0.1250	3.175	0.7500	19.050	-	-	0.1250	3.175	0.005	0.13	0.0310	89	196	387	-	SR1204SSX1	-	50,000	50,000	-	-	
SR155	0.1562	3.967	0.3125	7.938	0.1094	2.779	0.1250	3.175	0.003	0.08	0.0171	44	111	200	SR155	SR155SS	-	55,000	55,000	150,000	150,000	
SR156*	0.1875	4.762	0.3125	7.938	0.1094	2.779	0.1250	3.175	0.003	0.08	0.0171	44	111	200	SR156	SR156SS	-	55,000	55,000	150,000	150,000	
SR156X1	0.1875	4.762	0.3125	7.938	-	-	0.1094	2.779	0.003	0.08	0.0171	44	111	200	-	SR156SX1 [†]	-	-	55,000	-	-	
SR166*	0.1875	4.762	0.3750	9.525	0.1250	3.175	0.1250	3.175	0.003	0.08	0.0312	89	196	387	SR166	SR166SS	-	50,000	50,000	108,000 [†]	108,000 [†]	
SR186X3	0.1875	4.762	0.5000	12.700	-	-	0.1094	2.779	0.005	0.13	0.0312	89	196	387	-	SR186SX3 [†]	-	50,000	50,000	-	-	
SR186X2	0.1875	4.762	0.5000	12.700	-	-	0.1562	3.967	0.005	0.13	0.0312	89	196	387	-	SR186SSX2	-	50,000	50,000	-	-	
SR3	0.1875	4.762	0.5000	12.700	0.1562	3.967	0.1960	4.978	0.012	0.30	0.0615	120	218	614	SR3 [†]	SR3SS [†]	SR3FF	45,000	45,000	135,000	135,000	
SR3X8	0.1875	4.762	0.7500	19.050	-	-	0.1960	4.978	0.012	0.30	0.0615	120	218	614	-	SR3SSX8	-	45,000	45,000	135,000	135,000	

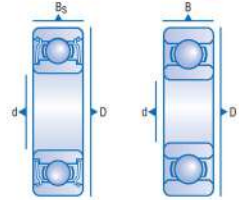
*Also available with extended inner ring.

**Attainable speed is determined by cage, not lubricant type. †Also available with T-Cage option. ‡Available only with single shield.

Deep Groove Instrument (Inch)

Bore Diameters: 4.762mm to 15.875mm

- ☒ Open, shielded and sealed
- ☒ Tolerances to ABEC 7P (see pages 96 to 101)



Basic Bearing Number	Bore Diameter		Outside Diameter		Width				Maximum Shaft/Housing Radius Which Bearing Corner Will Clear		nd ²	Static Capacity			Basic Dynamic Load Rating	Bearing Nomenclature			Attainable Speeds (RPM) by Cage Option Page 66-67			
	d		D		B		B _s		r Max.			Radial	Thrust	Open		Shielded	Flexeal	Standard Snap In Cage**	2-Piece Ribbon Cage**	TA Cage**		
	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm		C ₀ (N)	T ₀ (N)							C (N)	Oil	Grease
SR3X23	0.1875	4.762	0.8750	22.225	-	-	0.1960	4.978	0.012	0.30	0.0615	120	218	614	-	SR35SX23	-	45,000	45,000	-	-	
SR168	0.2500	6.350	0.3750	9.525	0.1250	3.175	0.1250	3.175	0.003	0.08	0.0171	36	98	169	SR168	SR168SS	-	48,000	-	-	-	
SR188*	0.2500	6.350	0.5000	12.700	0.1250	3.175	0.1875	4.762	0.005	0.13	0.0430	120	254	471	SR188	SR188SS	-	-	42,000	110,000	110,000	
SR4	0.2500	6.350	0.6250	15.875	0.1960	4.978	0.1960	4.978	0.012	0.30	0.0703	156	280	694	SR4	SR4SS	SR4FF	40,000	40,000	105,000	105,000	
SR4A	0.2500	6.350	0.7500	19.050	0.2188	5.558	0.2812	7.142	0.016	0.41	0.1187	236	374	1139	SR4A	SR4ASS	SR4AFF	35,000	35,000	85,000	85,000	
SR4X35	0.2500	6.350	1.0480	26.619	-	-	0.1960	4.978	0.012	0.30	0.0703	156	280	694	-	SR45SX35	-	42,000	42,000	-	-	
SR1810	0.3125	7.938	0.5000	12.700	0.1562	3.967	0.1562	3.967	0.005	0.13	0.0430	120	249	463	SR1810	SR1810SS	-	-	30,000	-	-	
SR6	0.3750	9.525	0.8750	22.225	0.2188	5.558	0.2812	7.142	0.016	0.41	0.1710	383	574	1579	SR6	SR6SS	SR6FF	24,000	24,000	55,000	55,000	
SR8	0.5000	12.700	1.1250	28.575	0.2500	6.350	0.3125	7.938	0.016	0.41	0.2440	1543	1023	3403	SR8	SR8SS	SR8FF	-	14,000	38,000	38,000	
SR10	0.6250	15.875	1.3750	34.925	0.2812	7.142	0.3438	8.733	0.031	0.79	0.3517	2442	1917	4977	SR10	SR10SS	SR10FF	-	12,000	36,000	36,000	

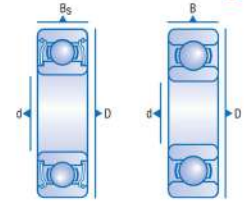
*Also available with extended inner ring.

**Attainable speed is determined by cage, not lubricant type. *Also available with T-Cage option. **Available only with single shield.

Deep Groove Instrument (Metric)

Bore Diameters: 1.500mm to 9.000mm

- Open, shielded and sealed
- Tolerances to ABEC 7P (see pages 96 to 101)



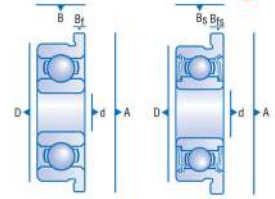
Basic Bearing Number	Bore Diameter		Outside Diameter		Width		Maximum Shaft/Housing Radius Which Bearing Corner Will Clear		nd ²	Static Capacity		Basic Dynamic Load Rating	Bearing Nomenclature			Attainable Speeds (RPM) by Cage Option Page 66-67						
	d		D		B		r Max.			Radial	Thrust		C (N)				Standard Snap In Cage**	2-Piece Ribbon Cage**	TA Cage**		T Cage	
	mm	inch	mm	inch	mm	inch	mm	inch		C ₀ (N)	T ₀ (N)			Oil	Grease	Oil			Grease			
S18M1-5	1.500	0.0591	4.000	0.1575	1.200	0.0472	0.08	0.003	0.0059	13	40	89	S18M1-5	-	-	-	160,000	-	-	-	-	
S19M1-5	1.500	0.0591	5.000	0.1969	2.000	0.0787	0.15	0.006	0.0078	18	58	111	S19M1-5Y1	S19M1-5SSY1	-	-	125,000	-	-	-	-	
S19M2	2.000	0.0787	6.000	0.2362	2.300	0.0905	0.15	0.006	0.0109	27	76	151	S19M2Y1	S19M2SSY1	-	-	120,000	-	-	-	-	
S18M2-5	2.500	0.0984	6.000	0.2362	1.800	0.0709	0.15	0.006	0.0124	31	89	169	S18M2-5	-	-	-	100,000	-	-	-	-	
S38M2-5	2.500	0.0984	6.000	0.2362	2.600	0.1024	0.15	0.006	0.0124	31	89	169	S38M2-5	S38M2-5SS	-	-	100,000	240,000	240,000	-	-	
S19M2-5	2.500	0.0984	7.000	0.2756	2.500	0.0984	0.15	0.006	0.0124	31	89	169	S19M2-5Y1	S19M2-5SSY1	-	100,000	100,000	240,000	240,000	-	-	
S38M3	3.000	0.1181	7.000	0.2756	3.000	0.1181	0.15	0.006	0.0154	40	102	209	S38M3	S38M3SS	-	-	85,000	-	-	-	-	
S2M3	3.000	0.1181	10.000	0.3937	4.000	0.1575	0.15	0.006	0.0273	71	133	356	S2M3Y1	S2M3SSY1	-	80,000	80,000	200,000	200,000	-	-	
S18M4	4.000	0.1575	9.000	0.3543	2.500	0.0984	0.18	0.007	0.0273	71	133	356	S18M4	-	-	65,000	65,000	-	-	-	-	
S38M4	4.000	0.1575	9.000	0.3543	4.000	0.1575	0.15	0.006	0.0273	71	133	356	S38M4	S38M4SS	-	65,000	65,000	200,000	200,000	-	-	
S2M4	4.000	0.1575	13.000	0.5118	5.000	0.1969	0.18	0.007	0.0615	173	325	734	S2M4	S2M4SS	-	55,000	55,000	150,000	150,000	-	-	
34	4.000	0.1575	16.000	0.6299	5.000	0.1969	0.30	0.012	0.0940	169	285	885	34	34SS	34FF	-	50,000	120,000'	120,000'	200,000''	140,000''	
S19M5	5.000	0.1969	13.000	0.5118	4.000	0.1575	0.15	0.006	0.0430	156	280	694	-	S19M5SS	-	-	40,000	100,000	100,000	-	-	
34-5	5.000	0.1969	16.000	0.6299	5.000	0.1969	0.30	0.012	0.0940	169	285	885	34-5	34-5SS	34-5FF	-	50,000	120,000'	120,000'	200,000''	140,000''	
35	5.000	0.1969	19.000	0.7480	6.000	0.2362	0.30	0.012	0.1187	236	374	1139	35	35SS	-	-	40,000	100,000'	100,000'	160,000''	115,000''	
36	6.000	0.2362	19.000	0.7480	6.000	0.2362	0.30	0.012	0.1187	236	374	1139	36	36SS	-	-	40,000	100,000'	100,000'	-	-	
S18M7Y2	7.000	0.2756	14.000	0.5512	4.000	0.1575	0.15	0.006	0.0560	169	316	636	S18M7Y2	-	-	-	35,000	-	-	-	-	
37	7.000	0.2756	22.000	0.8661	7.000	0.2756	0.30	0.012	0.1710	369	547	1552	37	37SS	37FF	-	32,000	75,000'	75,000'	120,000''	86,000''	
37X2	7.000	0.2756	22.000	0.8661	10.310	0.4060	0.30	0.012	0.1710	956	360	2624	-	37SSX2	37FFX2	-	-	-	-	120,000	86,000	
38	8.000	0.3150	22.000	0.8661	7.000	0.2756	0.30	0.012	0.1710	369	547	1552	38	38SS	38FF	-	32,000	75,000'	75,000'	120,000''	86,000''	
38X2	8.000	0.3150	22.000	0.8661	10.310	0.4060	0.30	0.012	0.1710	956	360	2624	-	38SSX2	38FFX2	-	-	-	-	120,000	86,000	
38X6	8.000	0.3150	24.000	0.9449	10.310	0.4060	0.30	0.012	0.1710	956	360	2624	-	38SSX6	38FFX6	-	-	-	-	120,000	86,000	
39	9.000	0.3543	26.000	1.0236	8.000	0.3150	0.40	0.016	0.2461	1481	1383	3776	39	39SS	-	-	25,000	-	-	-	-	

**Attainable speed is determined by cage, not lubricant type. *Available only with single shield. **T-cage option available unshielded only.

Deep Groove Flanged (Inch)

Bore Diameters: 1.191mm to 9.525mm

- Open, shielded and sealed
- Tolerances to ABEC 7P (see pages 96 to 101)



Basic Bearing Number	Bore Diameter		Outside Diameter		Width				Maximum Shaft/Housing Radius Which Bearing Corner Will Clear		Flange Diameter				Flange Width				nd ²	Static Capacity			Basic Dynamic Load Rating	Bearing Nomenclature			Attainable Speeds (RPM) by Cage Option Page 66-67			
	d		D		B		B _s		r Max.		A		B _f		B _{f_s}		C ₀ (N)	T ₀ (N)		C (N)	Open	Shielded		Flexeal	Standard Snap In Cage**	2-Piece Ribbon Cage**	TA Cage**			
	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm											Oil	Grease		
	inch		mm		inch		mm		inch		mm		inch		mm		inch			mm		inch		mm		inch		mm		
SFR0	0.0469	1.191	0.1562	3.967	0.0625	1.588	0.0937	2.380	0.003	0.08	0.203	5.160	0.013	0.330	0.031	0.790	0.0059	13	36	85	SFR0	SFR0SS	-	-	180,000	-	-			
SFR1	0.0550	1.397	0.1875	4.762	0.0781	1.984	0.1094	2.779	0.003	0.08	0.234	5.940	0.023	0.580	0.031	0.790	0.0093	22	53	129	SFR1	SFR1SS	-	-	140,000	-	-			
SFR1-4	0.0781	1.984	0.2500	6.350	0.0937	2.380	0.1406	3.571	0.003	0.08	0.296	7.520	0.023	0.580	0.031	0.790	0.0124	31	89	169	SFR1-4	SFR1-4SS	-	100,000	100,000	220,000	220,000			
SFR133*	0.0937	2.380	0.1875	4.762	0.0625	1.588	0.0937	2.380	0.003	0.08	0.234	5.940	0.018	0.460	0.031	0.790	0.0078	18	58	111	SFR133	SFR133SS	-	105,000	105,000	216,000	216,000			
SFR1-5	0.0937	2.380	0.3125	7.938	0.1094	2.779	0.1406	3.571	0.003	0.08	0.359	9.120	0.023	0.580	0.031	0.790	0.0234	44	89	254	SFR1-5	SFR1-5SS	-	75,000	75,000	200,000	200,000			
SFR144*	0.1250	3.175	0.2500	6.350	0.0937	2.380	0.1094	2.779	0.003	0.08	0.296	7.520	0.023	0.580	0.031	0.790	0.0124	31	89	169	SFR144	SFR144SS	-	80,000	80,000	220,000	220,000			
SFR2-5	0.1250	3.175	0.3125	7.938	0.1094	2.779	0.1406	3.571	0.003	0.08	0.359	9.120	0.023	0.580	0.031	0.790	0.0234	44	89	254	SFR2-5	SFR2-5SS	SFR2-5FF	75,000	75,000	200,000	200,000			
SFR2-6	0.1250	3.175	0.3750	9.525	0.1094	2.779	0.1406	3.571	0.006	0.15	0.422	10.720	0.023	0.580	0.031	0.790	0.0273	71	133	356	SFR2-6	SFR2-6SS	-	65,000	65,000	160,000	160,000			
SFR2	0.1250	3.175	0.3750	9.525	0.1562	3.967	0.1562	3.967	0.012	0.30	0.440	11.180	0.030	0.760	0.030	0.760	0.0273	44	102	294	SFR2	SFR2SS	SFR2FF	65,000	65,000	160,000	160,000			
SFR155	0.1562	3.967	0.3125	7.938	0.1094	2.779	0.1250	3.175	0.003	0.08	0.359	9.120	0.023	0.580	0.036	0.910	0.0171	44	111	200	SFR155	SFR155SS	-	55,000	55,000	150,000	150,000			
SFR156*	0.1875	4.762	0.3125	7.938	0.1094	2.779	0.1250	3.175	0.003	0.08	0.359	9.120	0.023	0.580	0.036	0.910	0.0171	44	111	200	SFR156	SFR156SS	-	55,000	55,000	150,000	150,000			
SFR166*	0.1875	4.762	0.3750	9.525	0.1250	3.175	0.1250	3.175	0.003	0.08	0.422	10.720	0.023	0.580	0.031	0.790	0.0312	89	196	387	SFR166	SFR166SS	-	50,000	50,000	140,000*	140,000**			
SFR3X3	0.1875	4.762	0.5000	12.700	0.1562	3.967	-	-	0.012	0.30	0.565	14.350	0.042	1.070	-	-	0.0615	120	218	614	SFR3X3	-	-	45,000	45,000	-	-			
SFR3	0.1875	4.762	0.5000	12.700	0.1960	4.978	0.1960	4.978	0.012	0.30	0.565	14.350	0.042	1.070	0.042	1.070	0.0615	120	218	614	SFR3*	SFR3SS*	SFR3FF	45,000	45,000	135,000	135,000			
SFR168	0.2500	6.350	0.3750	9.525	0.1250	3.175	0.1250	3.175	0.003	0.08	0.422	10.720	0.023	0.580	0.036	0.910	0.0171	36	98	169	SFR168	SFR168SS	-	48,000	-	-	-			
SFR188*	0.2500	6.350	0.5000	12.700	0.1250	3.175	0.1875	4.762	0.005	0.13	0.547	13.890	0.023	0.580	0.045	1.140	0.0430	120	254	471	SFR188	SFR188SS	-	-	42,000	110,000	110,000			
SFR4	0.2500	6.350	0.6250	15.875	0.1960	4.978	0.1960	4.978	0.012	0.30	0.690	17.530	0.042	1.070	0.042	1.070	0.0703	156	280	694	SFR4*	SFR4SS*	SFR4FF	40,000	40,000	105,000	105,000			
SFR1810	0.3125	7.938	0.5000	12.700	0.1562	3.967	0.1562	3.967	0.005	0.13	0.547	13.890	0.031	0.790	0.031	0.790	0.0430	120	249	463	SFR1810	SFR1810SS	-	-	32,000	-	-			
SFR6	0.3750	9.525	0.8750	22.225	0.2812	7.142	0.2812	7.142	0.016	0.41	0.969	24.610	0.062	1.570	0.062	1.570	0.1710	383	574	1579	SFR6	SFR6SS	SFR6FF	-	24,000	55,000	55,000			

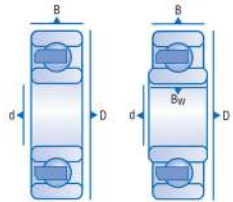
*Also available with extended inner ring.

**Attainable speed is determined by cage, not lubricant type. *Also available with T-Cage option. **Available only with single shield.

Deep Groove Thin Section (Inch)

Bore Diameters: 15.875mm to 39.688mm

- Open, shielded and sealed
- For SN500 bearings tolerances are to ABEC 7T 'thin series', for A500 bearings tolerances are to Barden 'A500' (see pages 96 to 101)



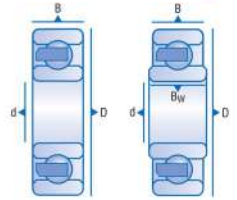
500 SERIES Basic Bearing Number	Bore Diameter		Outside Diameter		Width Outer Ring		Width Inner Ring		Maximum Shaft/Housing Radius Which Bearing Corner Will Clear		nd ²	Static Capacity			Bearing Nomenclature			Attainable Speeds (RPM) by Cage Option Page 66-67					
	d		D		B		B _w		r Max.			Radial	Thrust	Basic Dynamic Load Rating	Open	Shielded	Flexeal	Separators**		TA Cage**		T Cage	
	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm		C ₀ (N)	T ₀ (N)					C (N)	Toroids	ZA	Oil	Grease	Oil
SN538ZA	0.6250	15.875	1.0625	26.988	0.2500	6.350	0.2500	6.350	0.015	0.38	0.1406	641	1,526	1,659	SN538ZA	SN538SSZA	-	-	290	-	-	-	-
SN538TA	0.6250	15.875	1.0625	26.988	0.2500	6.350	0.2500	6.350	0.015	0.38	0.1875	836	2,033	1,988	SN538TA	SN538SSTA	-	-	-	31,000	31,000	-	-
A538ZA	0.6250	15.875	1.0625	26.988	0.2500	6.350	0.2812	7.142	0.015	0.38	0.1406	1,379	1,054	2,064	A538ZA	A538SSZA	-	-	290	-	-	-	-
A538T	0.6250	15.875	1.0625	26.988	0.2500	6.350	0.2812	7.142	0.015	0.38	0.1563	1,005	1,103	2,193	A538T	A538SST	-	-	-	-	-	57,000	37,000
SN539ZA	0.7500	19.050	1.1875	30.163	0.2500	6.350	0.2500	6.350	0.015	0.38	0.1719	787	1,926	1,859	SN539ZA	SN539SSZA	-	-	250	-	-	-	-
SN539TA	0.7500	19.050	1.1875	30.163	0.2500	6.350	0.2500	6.350	0.015	0.38	0.2188	1,014	2,451	2,148	SN539TA	SN539SSTA	-	-	-	27,000	27,000	-	-
A539ZA	0.7500	19.050	1.1875	30.163	0.2500	6.350	0.2812	7.142	0.015	0.38	0.1719	1,139	1,232	2,300	A539ZA	A539SSZA	A539FFZA	-	250	-	-	-	-
A539T	0.7500	19.050	1.1875	30.163	0.2500	6.350	0.2812	7.142	0.015	0.38	0.1875	1,245	1,343	2,438	A539T	A539SST	A539FFT	-	-	-	-	49,000	32,000
SN540ZA	0.8750	22.225	1.3125	33.338	0.2500	6.350	0.2500	6.350	0.015	0.38	0.2031	961	2,335	2,028	SN540ZA	SN540SSZA	-	-	220	-	-	-	-
SN540TA	0.8750	22.225	1.3125	33.338	0.2500	6.350	0.2500	6.350	0.015	0.38	0.2188	1,606	2,669	2,153	SN540TA	SN540SSTA	-	-	-	24,000	24,000	-	-
A540ZA	0.8750	22.225	1.3125	33.338	0.2500	6.350	0.2812	7.142	0.015	0.38	0.2031	1,388	1,468	2,518	A540ZA	A540SSZA	-	-	220	-	-	-	-
A540T	0.8750	22.225	1.3125	33.338	0.2500	6.350	0.2812	7.142	0.015	0.38	0.2188	1,495	1,575	2,651	A540T	A540SST	-	-	-	-	-	44,000	25,000
SN541ZA	1.0625	26.988	1.5000	38.100	0.2500	6.350	0.2500	6.350	0.015	0.38	0.2344	1,139	2,771	2,153	SN541ZA	SN541SSZA	-	-	190	-	-	-	-
SN541TA	1.0625	26.988	1.5000	38.100	0.2500	6.350	0.2500	6.350	0.015	0.38	0.2813	2,122	3,398	2,455	SN541TA	SN541SSTA	-	-	-	21,000	21,000	-	-
A541ZA	1.0625	26.988	1.5000	38.100	0.2500	6.350	0.2812	7.142	0.015	0.38	0.2344	1,632	1,672	2,682	A541ZA	A541SSZA	-	-	190	-	-	-	-
A541T	1.0625	26.988	1.5000	38.100	0.2500	6.350	0.2812	7.142	0.015	0.38	0.2500	1,744	1,784	2,798	A541T	A541SST	-	-	-	-	-	37,000	24,000
SN542ZA	1.3125	33.338	1.7500	44.450	0.2500	6.350	0.2500	6.350	0.015	0.38	0.2969	1,481	3,607	2,406	SN542ZA	SN542SSZA	-	-	150	-	-	-	-
SN542TA	1.3125	33.338	1.7500	44.450	0.2500	6.350	0.2500	6.350	0.015	0.38	0.3125	2,411	3,727	2,518	SN542TA	SN542SSTA	-	-	-	17,000	17,000	-	-
A542ZA	1.3125	33.338	1.7500	44.450	0.2500	6.350	0.2812	7.142	0.015	0.38	0.2969	2,126	2,104	3,016	A542ZA	A542SSZA	-	-	150	-	-	-	-
A542T	1.3125	33.338	1.7500	44.450	0.2500	6.350	0.2812	7.142	0.015	0.38	0.2813	2,015	1,993	2,909	A542T	A542SST	-	-	-	-	-	31,000	20,000
SN543ZA	1.5625	39.688	2.0000	50.800	0.2500	6.350	0.2500	6.350	0.015	0.38	0.3438	1,739	4,252	2,522	SN543ZA	SN543SSZA	-	-	130	-	-	-	-
SN543TA	1.5625	39.688	2.0000	50.800	0.2500	6.350	0.2500	6.350	0.015	0.38	0.4060	3,211	4,915	2,851	SN543TA	SN543SSTA	-	-	-	15,000	15,000	-	-
A543ZA	1.5625	39.688	2.0000	50.800	0.2500	6.350	0.2812	7.142	0.015	0.38	0.3438	2,500	2,451	3,207	A543ZA	A543SSZA	-	-	130	-	-	-	-
A543T	1.5625	39.688	2.0000	50.800	0.2500	6.350	0.2812	7.142	0.015	0.38	0.3438	2,500	2,451	3,207	A543T	A543SST	-	-	-	-	-	26,000	17,000

**Attainable speed is determined by cage, not lubricant type.

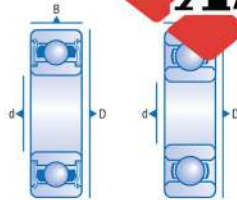
Deep Groove Thin Section (Inch)

Bore Diameters: 9.525mm to 19.050mm

- Open, shielded and sealed
- Tolerances are to ABEC 7T 'extra thin series' (see pages 96 to 101)



1000 SERIES Basic Bearing Number	Bore Diameter		Outside Diameter		Width		Maximum Shaft/Housing Radius Which Bearing Corner Will Clear		nd ²	Static Capacity		Basic Dynamic Load Rating C (N)	Bearing Nomenclature			Attainable Speeds (RPM) by Cage Option Page 66-67			
	d		D		B		r Max.			Radial	Thrust					Separators*		TA Cage	
	inch	mm	inch	mm	inch	mm	inch	mm		C ₀ (N)	T ₀ (N)					Toroids	ZA	Oil	Grease
SR1012ZA	0.3750	9.525	0.6250	15.875	0.1562	3.967	0.010	0.25	0.0469	116	231	423	SR1012ZA	-	-	-	480	-	-
SR1012TA	0.3750	9.525	0.6250	15.875	0.1562	3.967	0.010	0.25	0.0547	138	267	467	SR1012TA	-	-	-	-	58,000	38,000
SWR1012ZA	0.3750	9.525	0.6250	15.875	0.1960	4.978	0.005	0.13	0.0469	116	231	423	SWR1012ZA	SWR1012SSZA	-	-	480	-	-
SWR1012TA	0.3750	9.525	0.6250	15.875	0.1960	4.978	0.005	0.13	0.0547	138	267	467	SWR1012TA	SWR1012SSSTA	-	-	-	58,000	38,000
SR1216ZA	0.5000	12.700	0.7500	19.050	0.1562	3.967	0.010	0.25	0.0586	156	302	463	SR1216ZA	SR1216SSZA	-	-	380	-	-
SR1216TA	0.5000	12.700	0.7500	19.050	0.1562	3.967	0.010	0.25	0.0664	173	342	512	SR1216TA	SR1216SSSTA	-	-	-	46,000	30,000
SR1420ZA	0.6250	15.875	0.8750	22.225	0.1562	3.967	0.010	0.25	0.0703	187	369	498	SR1420ZA	SR1420SSZA	-	-	320	-	-
SR1420TA	0.6250	15.875	0.8750	22.225	0.1562	3.967	0.010	0.25	0.0781	222	431	560	SR1420TA	SR1420SSSTA	-	-	-	38,000	25,000
SR1624ZA	0.7500	19.050	1.0000	25.400	0.1562	3.967	0.010	0.25	0.0820	222	440	529	SR1624ZA	SR1624SSZA	-	-	270	-	-
SR1624TA	0.7500	19.050	1.0000	25.400	0.1562	3.967	0.010	0.25	0.0898	254	503	592	SR1624TA	SR1624SSSTA	-	-	-	32,000	21,000



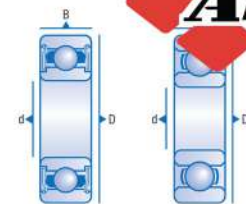
Deep Groove Spindle and Turbine (Metric)

Bore Diameters: 10mm to 25mm

- Open, shielded and sealed
- Tolerances to ABEC 7 (see pages 96 to 101)

Basic Bearing Number	Bore Diameter		Outside Diameter		Width		Maximum Shaft/Housing Radius Which Bearing Corner Will Clear		nd ²	Static Capacity		Basic Dynamic Load Rating	Bearing Nomenclature				Attainable Speeds (RPM) by Cage Option Page 66-67			
	d		D		B		r Max.			Radial	Thrust						2-Piece Ribbon Cage**	TMT Cage**	T Cage	
	mm	inch	mm	inch	mm	inch	mm	inch		C ₀ (kN)	T ₀ (kN)		C (kN)	Open	Shielded	Sealed			Flexeal	Oil
100	10.000	0.3937	26.000	1.0236	8.000	0.3150	0.30	0.012	0.246	2.79	1.51	4.45	100	100SS	-	-	26,500	-	-	-
100X1	10.000	0.3937	26.000	1.0236	11.510	0.4531	0.30	0.012	0.246	1.71	2.10	4.53	-	100SS(T)X1	-	100FF(T)X1	26,500	-	106,000	85,000
200	10.000	0.3937	30.000	1.1811	9.000	0.3543	0.64	0.025	0.335	3.09	2.32	5.90	200(T)	200SS	-	200FF	25,000	-	100,000	85,000
101	12.000	0.4724	28.000	1.1024	8.000	0.3150	0.30	0.012	0.281	2.16	2.29	5.00	101T	-	-	-	-	-	89,000	70,833
101X1	12.000	0.4724	28.000	1.1024	11.510	0.4531	0.30	0.012	0.281	3.38	1.79	4.94	-	101SSTX1	-	101FFTX1	-	-	89,000	70,833
101X1	12.000	0.4724	28.000	1.1024	11.510	0.4531	0.30	0.012	0.281	3.38	1.79	4.94	-	101SSMTX1	-	101FFMTX1	-	26,500	-	-
201	12.000	0.4724	32.000	1.2598	10.000	0.3937	0.64	0.025	0.385	3.59	2.52	6.72	201(T)	201SS	201VV	201FF	20,500	-	83,000	70,833
9201	12.000	0.4724	32.000	1.2598	15.875	0.6250	0.64	0.025	0.385	3.59	2.52	6.72	9201(T)	9201SS(T)	9201VV(T)	9201FF(T)	20,500	-	83,000	70,833
201X1	13.000	0.5118	32.000	1.2598	12.700	0.5000	0.64	0.025	0.385	3.59	2.52	6.72	201(T)X1	201SS(T)X1	201VV(T)X1	201FF(T)X1	20,500	-	83,000	65,385
1902X1	15.000	0.5906	28.000	1.1024	7.000	0.2756	0.30	0.012	0.218	2.23	1.95	3.50	1902TX1	-	-	1902FFTX1	-	-	67,000	56,667
102	15.000	0.5906	32.000	1.2598	9.000	0.3543	0.30	0.012	0.316	3.29	2.93	5.44	102T	102SS(TMT)	-	102FF(TMT)	-	20,000	71,000	56,667
202	15.000	0.5906	35.000	1.3780	11.000	0.4331	0.64	0.025	0.438	4.17	3.13	7.62	202(T)	202SS(T)	202YY	202FF(T)	16,800	-	67,000	56,667
202	15.000	0.5906	35.000	1.3780	11.000	0.4331	0.64	0.025	0.438	4.17	3.13	7.62	202(TMT)	202SS(TMT)	202YY(TMT)	202FF(TMT)	-	20,000	-	-
202X1	15.000	0.5906	35.000	1.3780	12.700	0.5000	0.64	0.025	0.438	4.17	3.13	7.62	202(T)X1	202SS(T)X1	-	202FF(T)X1	16,800	-	67,000	56,667
9302X1	15.000	0.5906	42.000	1.6535	19.075	0.7510	1.00	0.040	0.438	4.17	3.13	7.62	9302X1	-	-	9302FFTX1	-	-	67,000	56,667
103	17.000	0.6693	35.000	1.3780	10.000	0.3937	0.30	0.012	0.352	4.56	2.12	5.74	103(T)	103SS(T)	-	103FF(T)	15,400	-	62,000	50,000
203	17.000	0.6693	40.000	1.5748	12.000	0.4724	0.64	0.025	0.565	5.60	4.85	9.39	203(T)	203SS(T)	203YY	203FF(T)	14,800	-	59,000	50,000
203	17.000	0.6693	40.000	1.5748	12.000	0.4724	0.64	0.025	0.565	5.60	4.85	9.39	203(TMT)	203SS(TMT)	-	203FF(TMT)	-	17,600	-	-
9203	17.000	0.6693	40.000	1.5748	17.460	0.6875	0.64	0.025	0.565	5.60	4.85	9.39	9203(T)	9203SS(T)	9203VV(T)	9203FF(T)	14,800	-	59,000	50,000
104	20.000	0.7874	42.000	1.6535	12.000	0.4724	0.64	0.025	0.563	6.48	4.19	9.23	104T	104SST	-	104FFT	-	-	53,000	42,500
204	20.000	0.7874	47.000	1.8504	14.000	0.5512	1.00	0.040	0.781	7.77	6.73	12.63	204(T)	204SS(T)	204YY(T)	204FF(T)	12,500	-	50,000	42,500
204	20.000	0.7874	47.000	1.8504	14.000	0.5512	1.00	0.040	0.781	7.77	6.73	12.63	204(TMT)	204SS(TMT)	204YY(TMT)	204FF(TMT)	-	15,000	-	-
9204	20.000	0.7874	47.000	1.8504	20.640	0.8125	1.00	0.040	0.781	7.77	6.73	12.63	9204(T)	9204SS(T)	9204VV(T)	9204FF(T)	12,500	-	50,000	42,500
9204	20.000	0.7874	47.000	1.8504	20.640	0.8125	1.00	0.040	0.781	7.77	6.73	12.63	9204(TMT)	9204SS(TMT)	9204VV(TMT)	9204FF(TMT)	-	15,000	-	-
105	25.000	0.9843	47.000	1.8504	12.000	0.4724	0.64	0.025	0.625	6.77	9.20	9.80	105T	105SST	-	105FFT	-	-	42,500	34,000
205	25.000	0.9843	52.000	2.0472	15.000	0.5906	1.00	0.040	0.879	9.10	7.75	13.78	205(T)	205SS(T)	205YY(T)	205FF(T)	10,000	-	40,000	34,000
205	25.000	0.9843	52.000	2.0472	15.000	0.5906	1.00	0.040	0.879	9.10	7.75	13.78	205(TMT)	205SS(TMT)	205YY(TMT)	205FF(TMT)	-	12,000	-	-
9205	25.000	0.9843	52.000	2.0472	20.640	0.8125	1.00	0.040	0.879	9.10	7.75	13.78	9205(T)	9205SS(T)	9205VV(T)	9205FF(T)	10,000	-	40,000	34,000

**Attainable speed is determined by cage, not lubricant type.



Deep Groove Spindle and Turbine (Metric)

Bore Diameters: 25mm to 45mm

- Open, shielded and sealed
- Tolerances to ABEC 7 (see pages 96 to 101)

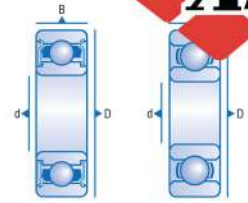
Basic Bearing Number	Bore Diameter		Outside Diameter		Width		Maximum Shaft/Housing Radius Which Bearing Corner Will Clear		nd ²	Static Capacity		Basic Dynamic Load Rating C (kN)	Bearing Nomenclature				Attainable Speeds (RPM) by Cage Option Page 66-67			
	d		D		B		r Max.			Radial	Thrust		Open	Shielded	Sealed	Flexeal	2 Piece Ribbon Cage**	TMT Cage**	T Cage	
	mm	inch	mm	inch	mm	inch	mm	inch		C ₀ (kN)	T ₀ (kN)								Oil	Grease
9205	25.000	0.9843	52.000	2.0472	20.640	0.8125	1.00	0.040	0.879	9.10	7.75	13.78	9205TMT	9205SSTMT	9205VVTMT	9205FFTMT	-	12,000	-	-
305	25.000	0.9843	62.000	2.4409	17.000	0.6693	1.00	0.040	1.340	12.73	18.58	20.99	305T	305SST	-	305FFT	-	-	40,000	34,000
9305	25.000	0.9843	62.000	2.4409	39.370	1.0000	1.00	0.040	1.340	12.73	18.58	20.99	9305T	9305SST	-	9305FFT	-	-	40,000	34,000
106	30.000	1.1811	55.000	2.1654	13.000	0.5118	1.00	0.040	0.870	9.57	8.02	12.98	106T	106SST	-	106FFT	-	-	35,000	28,333
206	30.000	1.1811	62.000	2.4409	16.000	0.6299	1.00	0.040	1.270	13.09	11.16	19.07	206(T)	206SS(T)	206VV(T)	206FF(T)	8,400	-	33,500	28,333
206	30.000	1.1811	62.000	2.4409	16.000	0.6299	1.00	0.040	1.270	13.09	11.16	19.07	206TMT	206SSTMT	206VVTMT	206FFTMT	-	10,000	-	-
9206	30.000	1.1811	62.000	2.4409	23.810	0.9375	1.00	0.040	1.270	13.09	11.16	19.07	9206(T)	9206SS(T)	9206VV(T)	9206FF(T)	8,400	-	33,500	28,333
9206	30.000	1.1811	62.000	2.4409	23.810	0.9375	1.00	0.040	1.270	13.09	11.16	19.07	9206TMT	9206SSTMT	9206VVTMT	9206FFTMT	-	10,000	-	-
107	35.000	1.3780	62.000	2.4409	14.000	0.5512	1.00	0.040	1.074	11.69	15.21	15.72	107T	107SST	-	107FFT	-	-	30,500	24,286
207	35.000	1.3780	72.000	2.8346	17.000	0.6693	1.00	0.040	1.723	17.81	20.59	25.26	207(T)	207SS(T)	-	207FF(T)	7,100	-	28,500	24,286
207	35.000	1.3780	72.000	2.8346	17.000	0.6693	1.00	0.040	1.723	17.81	20.59	25.26	207TMT	207SSTMT	-	207FFTMT	-	8,500	-	-
9207	35.000	1.3780	72.000	2.8346	26.990	1.0625	1.00	0.040	1.723	17.81	20.59	25.26	9207(T)	9207SS(T)	-	9207FF(T)	7,100	-	28,500	24,286
9207	35.000	1.3780	72.000	2.8346	26.990	1.0625	1.00	0.040	1.723	17.81	20.59	25.26	9207TMT	9207SSTMT	-	9207FFTMT	-	8,500	-	-
307	35.000	1.3780	80.000	3.1496	21.000	0.8268	1.50	0.060	2.215	21.31	30.96	33.17	307T	307SST	-	307FFT	-	-	28,500	24,286
307	35.000	1.3780	80.000	3.1496	21.000	0.8268	1.50	0.060	2.215	21.31	30.96	33.17	307TMT	307SSTMT	-	307FFTMT	-	6,900	-	-
9307	35.000	1.3780	80.000	3.1496	34.920	1.3750	1.50	0.060	2.215	21.31	30.96	33.17	9307T	9307SST	-	9307FFT	-	-	28,500	24,286
9307	35.000	1.3780	80.000	3.1496	34.920	1.3750	1.50	0.060	2.215	21.31	30.96	33.17	9307TMT	9307SSTMT	-	9307FFTMT	-	6,900	-	-
108	40.000	1.5748	68.000	2.6772	15.000	0.5906	1.00	0.040	1.172	13.41	12.71	16.35	108T	108SST	-	-	-	-	27,000	21,250
208	40.000	1.5748	80.000	3.1496	18.000	0.7087	1.00	0.040	1.978	20.72	26.87	28.64	208T	208SST	208VVT	208FFT	-	-	25,000	21,250
208	40.000	1.5748	80.000	3.1496	18.000	0.7087	1.00	0.040	1.978	20.72	26.87	28.64	208TMT	208SSTMT	208YYTMT	208FFTMT	-	7,500	-	-
9208	40.000	1.5748	80.000	3.1496	30.160	1.1875	1.00	0.040	1.978	20.72	26.87	28.64	9208T	9208SST	9208VVT	9208FFT	-	-	25,000	21,250
9208	40.000	1.5748	80.000	3.1496	30.160	1.1875	1.00	0.040	1.978	20.72	26.87	28.64	9208TMT	9208SSTMT	9208YYTMT	9208FFTMT	-	7,500	-	-
308	40.000	1.5748	90.000	3.1496	23.000	0.9055	1.50	0.060	3.125	30.74	43.00	44.08	308TMT	308SSTMT	-	-	-	6,000	-	-
9308	40.000	1.5748	90.000	3.1496	36.510	1.4375	1.50	0.060	3.125	30.74	43.00	44.08	9308TMT	9308SSTMT	-	-	-	6,000	-	-
109	45.000	1.7717	75.000	2.9578	16.000	0.6299	1.00	0.040	1.547	17.32	23.22	21.47	109TMT	-	-	109FFTMT	-	7,000	-	-
209	45.000	1.7717	85.000	3.3465	19.000	0.7480	1.00	0.040	2.197	23.57	23.23	30.66	209T	209SST	-	-	-	-	23,000	18,889
209	45.000	1.7717	85.000	3.3465	19.000	0.7480	1.00	0.040	2.197	23.57	23.23	30.66	209TMT	209SSTMT	-	-	-	6,700	-	-
9209	45.000	1.7717	85.000	3.3465	30.160	1.1875	1.00	0.040	2.197	23.57	23.23	30.66	9209T	9209SST	-	-	-	-	23,000	18,889

**Attainable speed is determined by cage, not lubricant type.

Deep Groove Spindle and Turbine (Metric)

Bore Diameters: 45mm to 160mm

- Open, shielded and sealed
- Tolerances to ABEC 7 (see pages 96 to 101)



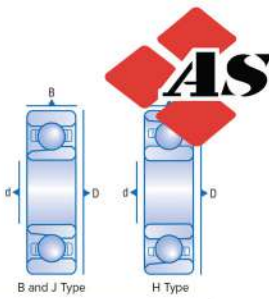
Basic Bearing Number	Bore Diameter		Outside Diameter		Width		Maximum Shaft/Housing Radius Which Bearing Corner Will Clear		nd ²	Static Capacity		Basic Dynamic Load Rating C (kN)	Bearing Nomenclature				Attainable Speeds (RPM) by Cage Option Page 66-67			
	d		D		B		r Max.			Radial	Thrust						2-Piece Ribbon Cage**	TMT Cage**	T Cage	
	mm	inch	mm	inch	mm	inch	mm	inch		C ₀ (kN)	T ₀ (kN)		Open	Shielded	Sealed	Flexeal			Oil	Grease
9209	45.000	1.7717	85.000	3.3465	30.160	1.1875	1.00	0.040	2.197	23.57	23.23	30.66	9209TMT	9209SSTMT	-	-	-	6.700	-	-
309	45.000	1.7717	100.000	3.9370	25.000	0.9843	1.50	0.060	3.781	37.22	52.91	51.89	309TMT	309SSTMT	-	309FFTMT	-	5.300	-	-
9309	45.000	1.7717	100.000	3.9370	39.690	1.5625	1.50	0.060	3.781	37.22	52.91	51.89	9309TMT	9309SSTMT	-	-	-	5.300	-	-
110	50.000	1.9685	80.000	3.1496	16.000	0.6299	1.00	0.040	1.828	20.90	20.65	23.80	110T	110SST	-	-	-	-	22,500	17,000
210	50.000	1.9685	90.000	3.5433	20.000	0.7874	1.00	0.040	2.500	26.87	26.57	34.40	210T	-	-	-	-	-	20,000	17,000
310	50.000	1.9685	110.000	4.3307	27.000	1.0630	2.00	0.080	4.500	44.51	63.27	60.76	310TMT	310SSTMT	-	310FFTMT	-	4.800	-	-
9310	50.000	1.9685	110.000	4.3307	44.450	1.7500	1.00	0.040	4.500	44.51	63.27	60.76	9310TMT	9310SSTMT	-	9310FFTMT	-	4.800	-	-
111	55.000	2.1654	90.000	3.5433	18.000	0.7807	1.00	0.040	2.297	25.91	28.41	29.89	111T	111SST	-	-	-	-	20,000	15,455
211	55.000	2.1654	100.000	3.9370	21.000	0.8268	1.50	0.060	3.164	33.81	46.54	40.09	211TMT	-	-	-	-	5,500	-	-
311	55.000	2.1654	120.000	4.7244	29.000	1.1417	2.00	0.080	5.281	52.46	75.39	70.26	311TMT	-	-	311FFTMT	-	4.400	-	-
312	60.000	2.3622	130.000	5.1181	31.000	1.2205	2.00	0.080	6.125	61.03	86.32	80.35	312TMT	312SSTMT	-	-	-	4,000	-	-
9312	60.000	2.3622	130.000	5.1181	53.975	2.1250	2.00	0.080	6.125	61.03	86.32	80.35	9312TMT	9312SSTMT	-	9312FFTMT	-	4,000	-	-
313	65.000	2.5591	140.000	5.5118	33.000	1.2992	2.00	0.080	7.031	70.27	99.53	91.98	313T	313SST	-	313FFT	-	-	15,300	13,077
313	65.000	2.5591	140.000	5.5118	33.000	1.2992	2.00	0.080	7.031	70.27	99.53	91.98	313TMT	313SSTMT	-	313FFTMT	-	3,700	-	-
9313	65.000	2.5591	140.000	5.5118	58.740	2.3125	2.00	0.080	7.031	70.27	99.53	91.98	9313T	9313SST	-	9313FFT	-	-	15,300	13,077
9313	65.000	2.5591	140.000	5.5118	58.740	2.3125	2.00	0.080	7.031	70.27	99.53	91.98	9313TMT	9313SSTMT	-	9313FFTMT	-	3,700	-	-
314	70.000	2.7559	150.000	5.9055	35.000	1.3780	2.00	0.080	8.000	76.71	114.48	103.29	314TMT	314SSTMT	-	-	-	3,400	-	-
9314	70.000	2.7559	150.000	5.9055	63.500	2.5000	2.00	0.080	8.000	76.71	114.48	103.29	9314TMT	9314SSTMT	-	-	-	3,400	-	-
315	75.000	2.9528	160.000	6.2992	37.000	1.4567	2.00	0.080	9.031	86.90	81.32	115.34	315TMT	315SSTMT	-	-	-	3,200	-	-
316	80.000	3.1496	170.000	6.6929	39.000	1.5354	2.00	0.080	9.031	92.90	129.64	116.02	316TMT	-	-	-	-	3,000	-	-
317	85.000	3.3465	180.000	7.0866	29.000	1.6142	2.50	0.100	10.125	104.19	145.14	128.46	317TMT	-	-	-	-	2,800	-	-
318	90.000	3.5433	190.000	7.4803	43.000	1.6929	2.50	0.100	11.281	116.14	161.80	140.03	318TMT	-	-	-	-	2,700	-	-
320	100.000	3.9370	215.000	8.4646	47.000	1.8504	3.00	0.120	15.125	147.81	218.75	184.16	320TMT	-	-	-	-	2,400	-	-
222	110.000	4.3307	200.000	7.8740	38.000	1.4961	2.00	0.080	12.656	107.14	286.65	147.32	222TMT	-	-	-	-	2,700	-	-
322	110.000	4.3307	240.000	9.4488	50.000	1.9685	3.00	0.120	18.000	184.61	260.84	214.34	322TMT	-	-	-	-	2,200	-	-
232	160.000	6.2992	290.000	11.4173	48.000	1.8898	3.00	0.120	20.797	234.20	313.29	222.36	232TMT	-	-	-	-	1,500	-	-




**Attainable speed is determined by cage, not lubricant type.

Angular Contact (Metric)

Bore Diameters: 20mm to 50mm

Tolerances to a minimum of ABEC 7 (see pages 96 to 101)

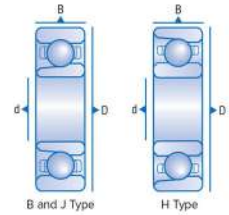










Basic Bearing Number	Bore Diameter		Outside Diameter		Width		Maximum Shaft/Housing Radius Which Bearing Corner Will Clear		Maximum Shaft/Housing Radius Which Bearing Corner Will Clear		Contact Angle	nd ²	Static Capacity		Basic Dynamic Load Rating	Bearing Nomenclature			Attainable Speeds (RPM)		
	d		D		B		r ₁ Max.		r ₂ Max. Non-Thrust Side				C ₀ (kN)	T ₀ (kN)		C (kN)				Oil	Grease
	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch											
104H	20.000	0.7874	42.000	1.6535	12.000	0.4724	0.64	0.025	0.38	0.015	15°	0.6875	5.72	6.29	10.49	-	-	104HJH	75,000	50,000	
104BX48	20.000	0.7874	42.000	1.6535	12.000	0.4724	0.64	0.025	0.38	0.015	15°	0.6875	4.79	8.79	8.32	104BX48	-	-	75,000	50,000	
204H	20.000	0.7874	47.000	1.8504	14.000	0.5512	1.00	0.040	0.50	0.020	15°	0.9766	9.85	9.06	14.60	-	204JJJ	204HJH	75,000	50,000	
304H	20.000	0.7874	52.000	2.0472	15.000	0.5906	1.00	0.040	0.50	0.020	15°	1.4854	13.65	20.52	21.02	-	-	304HJB	75,000	37,500	
1905H	25.000	0.9843	42.000	1.6535	9.000	0.3543	0.30	0.012	0.25	0.010	15°	0.7656	8.69	11.85	10.48	-	-	1905HJH	60,000	40,000	
105H	25.000	0.9843	47.000	1.8504	12.000	0.4724	0.64	0.025	0.38	0.015	15°	0.8125	9.05	8.75	11.70	-	-	105HJH	60,000	40,000	
105BX48	25.000	0.9843	47.000	1.8504	12.000	0.4724	0.64	0.025	0.38	0.015	15°	0.8125	5.92	12.46	9.30	105BX48	-	-	60,000	40,000	
205H	25.000	0.9843	52.000	2.0472	15.000	0.5906	1.00	0.040	0.50	0.020	15°	1.0742	11.43	10.22	15.67	-	-	205HJB	60,000	40,000	
305H	25.000	0.9843	62.000	2.4409	17.000	0.6693	1.00	0.040	0.50	0.020	15°	2.1973	18.55	29.98	29.51	-	-	305HJB	60,000	30,000	
106H	30.000	1.1811	55.000	2.1654	13.000	0.5118	1.00	0.040	0.50	0.020	15°	1.1074	14.99	9.86	15.09	-	-	106HJH	50,000	33,300	
106BX48	30.000	1.1811	55.000	2.1654	13.000	0.5118	1.00	0.040	0.50	0.020	15°	1.1074	8.20	13.80	12.08	106BX48	-	-	50,000	33,300	
206H	30.000	1.1811	62.000	2.4409	16.000	0.6299	1.00	0.040	0.50	0.020	15°	1.8154	18.76	26.61	25.06	-	-	206HJH	50,000	33,300	
306H	30.000	1.1811	72.000	2.8346	19.000	0.7480	1.00	0.040	0.50	0.020	15°	2.8223	27.07	39.88	37.27	-	-	306HJH	50,000	25,000	
1907H	35.000	1.3780	55.000	2.1654	10.000	0.3937	0.64	0.025	0.38	0.015	15°	1.1875	14.04	18.80	14.67	-	-	1907HJH	42,800	28,500	
107H	35.000	1.3780	62.000	2.4409	14.000	0.5512	1.00	0.040	0.50	0.020	15°	1.4648	16.68	22.63	19.13	-	-	107HJB	42,800	28,500	
107BX48	35.000	1.3780	62.000	2.4409	14.000	0.5512	1.00	0.040	0.50	0.020	15°	1.4648	10.90	18.21	15.26	107BX48	-	-	42,800	28,500	
207H	35.000	1.3780	72.000	2.8346	17.000	0.6693	1.00	0.040	0.50	0.020	15°	2.2969	24.42	24.66	30.46	-	-	207HJH	42,800	28,500	
307H	35.000	1.3780	80.000	3.1496	21.000	0.8268	1.50	0.060	0.76	0.030	15°	3.4805	34.42	50.13	44.52	-	-	307HJH	42,800	21,400	
108H	40.000	1.5748	68.000	2.6672	15.000	0.5906	1.00	0.040	0.50	0.020	15°	1.6602	19.39	18.78	20.52	-	-	108HJH	37,500	25,000	
108BX48	40.000	1.5748	68.000	2.6672	15.000	0.5906	1.00	0.040	0.50	0.020	15°	1.6602	12.67	26.90	16.39	108BX48	-	-	37,500	25,000	
208H	40.000	1.5748	80.000	3.1496	18.000	0.7087	1.00	0.040	0.50	0.020	15°	2.6367	28.40	40.07	34.47	-	-	208HJH	37,500	25,000	
308H	40.000	1.5748	90.000	3.5433	23.000	0.9055	1.50	0.060	0.76	0.030	15°	1.0742	43.05	62.19	54.05	-	-	308HJH	37,500	18,800	
109H	45.000	1.7717	75.000	2.9528	16.000	0.6299	1.00	0.040	0.50	0.020	15°	2.2500	25.82	34.88	27.62	-	-	109HJH	33,300	22,200	
209H	45.000	1.7717	85.000	3.3485	19.000	0.7480	1.00	0.040	0.50	0.020	15°	2.8564	31.52	31.46	36.27	-	-	209HJB	33,300	22,200	
309H	45.000	1.7717	100.000	3.9370	25.000	0.9843	1.50	0.060	0.76	0.030	15°	5.1992	52.10	75.35	64.12	-	-	309HJH	33,300	16,700	
110H	50.000	1.9685	80.000	3.1496	16.000	0.6299	1.00	0.040	0.50	0.020	15°	2.5313	29.59	39.66	29.61	-	-	110HJH	30,000	20,000	
110BX48	50.000	1.9685	80.000	3.1496	16.000	0.6299	1.00	0.040	0.50	0.020	15°	2.5313	19.33	41.04	23.69	110BX48	-	-	30,000	20,000	
210H	50.000	1.9685	90.000	3.5433	20.000	0.7874	1.00	0.040	0.50	0.020	15°	3.5000	38.71	38.75	41.19	-	-	210HJH	30,000	20,000	

Angular Contact (Inch)

Bore Diameters: 2.380mm to 12.700mm

Tolerances to a minimum of ABEC 7 (see pages 96 to 101)

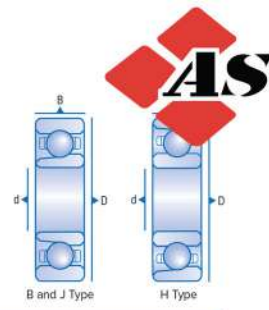













Basic Bearing Number	Bore Diameter		Outside Diameter		Width		Maximum Shaft/Housing Radius Which Bearing Corner Will Clear		Maximum Shaft/Housing Radius Which Bearing Corner Will Clear		Contact Angle	nd ²	Static Capacity			Basic Dynamic Load Rating	Bearing Nomenclature			Attainable Speeds (RPM)	
	d		D		B		r ₁ Max.		r ₂ Max. Non-Thrust Side				C ₀ (N)	T ₀ (N)	C (N)					Oil	Grease
	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm											
R1-5B	0.0937	2.380	0.3125	7.938	0.1094	2.779	0.008	0.20	0.006	0.15	16°	0.0234	53	89	254		-	-	267,000	214,000	
R1-5H	0.0937	2.380	0.3125	7.938	0.1094	2.779	0.008	0.20	0.006	0.15	12°	0.0273	62	89	285	-	-	R1-5H	267,000	214,000	
R144H	0.1250	3.175	0.2500	6.350	0.1094	2.779	0.003	0.08	0.003	0.08	15°	0.0124	31	89	169	-	-	R144H	315,000	268,000	
R2-5B	0.1250	3.175	0.3125	7.938	0.1094	2.779	0.003	0.08	0.003	0.08	20°	0.0273	67	125	280		-	-	R2-5B	244,000	195,000
R2-5H	0.1250	3.175	0.3125	7.938	0.1094	2.779	0.003	0.08	0.003	0.08	20°	0.0273	67	93	285	-	-	R2-5H	244,000	195,000	
R2B	0.1250	3.175	0.3750	9.525	0.1562	3.967	0.012	0.30	0.006	0.15	15°	0.0273	67	107	289		-	-	R2B	202,000	162,000
R2H	0.1250	3.175	0.3750	9.525	0.1562	3.967	0.012	0.30	0.006	0.15	15°	0.0313	111	133	400	-	-	R2H	202,000	162,000	
R2-6H	0.1250	3.175	0.3750	9.525	0.1094	2.779	0.006	0.15	0.006	0.15	15°	0.0273	71	133	356	-	-	R2-6H	202,000	162,000	
R3B	0.1875	4.762	0.5000	12.700	0.1562	3.967	0.012	0.30	0.005	0.13	15°	0.0615	151	240	605		-	-	R3B	152,000	122,000
R3H	0.1875	4.762	0.5000	12.700	0.1562	3.967	0.012	0.30	0.005	0.13	10°	0.0615	151	231	676	-	-	R3H	152,000	122,000	
R4B	0.2500	6.350	0.6250	15.875	0.1960	4.978	0.012	0.30	0.010	0.25	15°	0.0703	191	307	689		-	-	R4B	116,000	93,000
R4H	0.2500	6.350	0.6250	15.875	0.1960	4.978	0.012	0.30	0.010	0.25	10°	0.0791	218	289	756	-	-	R4H	116,000	93,000	
R4HX8	0.2500	6.350	0.6250	15.875	0.1960	4.978	0.012	0.30	0.006	0.15	15°	0.1582	916	1,810	2,313	-	-	R4HX8	130,000	100,000	
R8H	0.5000	12.700	1.1250	28.575	0.2500	6.350	0.016	0.41	0.008	0.20	17°	0.2930	2,073	1,308	3,981	-	-	R8H	57,000	47,000	

Angular Contact (Metric)

Bore Diameters: 3mm to 17mm

⊗ Tolerances to a minimum of ABEC 7 (see pages 96 to 101)

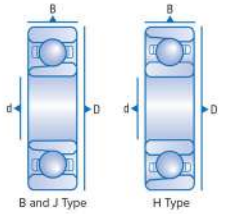





Basic Bearing Number	Bore Diameter		Outside Diameter		Width		Maximum Shaft/Housing Radius Which Bearing Corner Will Clear		Maximum Shaft/Housing Radius Which Bearing Corner Will Clear		Contact Angle	nd ²	Static Capacity		Basic Dynamic Load Rating	Bearing Nomenclature			Attainable Speeds (RPM)					
	d		D		B		r ₁ Max.		r ₂ Max. Non-Thrust Side				C ₀ (kN)	T ₀ (kN)		C (kN)				Oil	Grease			
	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch														
																					B Type: Separable	J Type: Non-separable	H Type: Non-separable	
2M3BY3	3.000	0.1181	10.000	0.3937	4.000	0.1575	0.15	0.006	0.15	0.006	20°	0.0273	0.07	0.11	0.29		-	-	315,000	230,000				
34H	4.000	0.1575	16.000	0.6299	5.000	0.1969	0.30	0.012	0.13	0.005	12°	0.1250	0.48	0.52	1.45	-	-	34H	183,000	140,000				
34BX4	4.000	0.1575	16.000	0.6299	5.000	0.1969	0.30	0.012	0.13	0.005	15°	0.9380	0.15	0.18	0.72		-	-	183,000	140,000				
34-5H	5.000	0.1969	16.000	0.6299	5.000	0.1969	0.30	0.012	0.13	0.005	14°	0.9380	0.21	0.32	0.88		-	34-5H	183,000	140,000				
19M5BY1	5.000	0.1969	13.000	0.5118	4.000	0.1575	0.15	0.006	0.15	0.006	25°	0.4300	0.12	0.25	0.47	-	-	-	200,000	140,000				
36H	6.000	0.2362	19.000	0.7480	6.000	0.2362	0.30	0.012	0.13	0.005	15°	0.1582	0.64	0.77	1.86	-	-	36H(JB)	250,000	166,600				
36BX1	6.000	0.2362	19.000	0.7480	6.000	0.2362	0.30	0.012	0.13	0.005	11°	0.1187	0.20	0.24	0.93		-	-	162,000	105,000				
37H	7.000	0.2756	22.000	0.8661	7.000	0.2756	0.30	0.012	0.13	0.005	14°	0.2197	0.92	1.35	2.48	-	-	37H(JB)	132,000	85,800				
38H	8.000	0.3150	22.000	0.8661	7.000	0.2756	0.30	0.012	0.25	0.010	14°	0.2197	0.92	1.35	2.48	-	-	38H(JH)	132,000	85,800				
38BX2	8.000	0.3150	22.000	0.8661	7.000	0.2756	0.30	0.012	0.13	0.005	15°	0.1709	0.43	0.62	1.53		-	-	88,000	57,000				
39H	9.000	0.3543	26.000	1.0236	8.000	0.3150	0.30	0.012	0.25	0.010	15°	0.3164	1.33	2.60	3.44	-	-	39H(JB)	132,000	85,800				
100H	10.000	0.3937	26.000	1.0236	8.000	0.3150	0.30	0.012	0.25	0.010	15°	0.3164	2.37	2.70	5.33	-	-	100H(JH)	150,000	100,000				
200H	10.000	0.3937	30.000	1.1811	9.000	0.3543	0.64	0.025	0.38	0.015	15°	0.4307	4.06	3.23	6.97	-	-	200HJB	150,000	100,000				
1901H	12.000	0.4724	24.000	0.9449	6.000	0.2362	0.30	0.012	0.15	0.006	15°	0.2686	2.79	3.93	4.48	-	-	1901HJH	125,000	83,300				
101H	12.000	0.4724	28.000	1.1024	8.000	0.3150	0.30	0.012	0.25	0.010	15°	0.3516	2.77	3.12	5.82	-	-	101HJH	125,000	83,300				
101BX48	12.000	0.4724	28.000	1.1024	8.000	0.3150	0.30	0.012	0.25	0.010	15°	0.3516	2.32	3.46	4.58		-	-	125,000	83,300				
201H	12.000	0.4724	32.000	1.2598	10.000	0.3937	0.64	0.025	0.38	0.015	15°	0.3867	3.78	5.13	5.95	-	-	201HJH	125,000	83,300				
301H	12.000	0.4724	37.000	1.4567	12.000	0.4724	1.00	0.040	0.50	0.020	15°	0.6350	5.62	8.85	9.91	-	-	301HJH	125,000	62,500				
1902H	15.000	0.5906	28.000	1.1024	7.000	0.2756	0.30	0.012	0.15	0.006	15°	0.3418	3.79	5.19	5.25	-	-	1902HJH	100,000	66,600				
102H	15.000	0.5906	32.000	1.2598	9.000	0.3543	0.30	0.012	0.25	0.010	15°	0.3867	4.13	4.30	6.24	-	-	102HJB	100,000	66,600				
102BX48	15.000	0.5906	32.000	1.2598	9.000	0.3543	0.30	0.012	0.25	0.010	15°	0.3867	2.70	3.91	4.96		-	-	100,000	66,600				
102BJJX6	15.000	0.5906	32.000	1.2598	9.000	0.3543	0.30	0.012	0.25	0.010	15°	0.3515	2.76	5.25	5.88	-	102BJJX6	-	100,000	66,600				
202H	15.000	0.5906	35.000	1.3780	11.000	0.4331	0.64	0.025	0.38	0.015	15°	0.6250	6.09	4.85	9.67	-	-	202HJB	100,000	66,600				
302H	15.000	0.5906	42.000	1.6535	13.000	0.5118	1.00	0.040	0.50	0.020	15°	1.0635	9.47	14.50	15.30	-	-	302HJH	100,000	50,000				
103H	17.000	0.6693	35.000	1.3780	10.000	0.3937	0.30	0.012	0.25	0.010	15°	0.4570	3.94	3.87	6.97	-	-	103HJH	88,200	58,800				
103BX48	17.000	0.6693	35.000	1.3780	10.000	0.3937	0.30	0.012	0.25	0.010	15°	0.4570	3.30	5.78	5.56		-	-	88,200	58,800				
203H	17.000	0.6693	40.000	1.5748	12.000	0.4724	0.64	0.025	0.38	0.015	15°	0.7056	7.09	10.47	10.91	-	-	203HJH	88,200	58,800				
303H	17.000	0.6693	47.000	1.8504	14.000	0.5512	1.00	0.040	0.50	0.020	15°	1.1816	11.15	16.60	16.91	-	-	303HJH	88,200	44,100				

Angular Contact (Metric)

Bore Diameters: 50mm to 100mm

Tolerances to a minimum of ABEC 7 (see pages 96 to 101)



Basic Bearing Number	Bore Diameter		Outside Diameter		Width		Maximum Shaft/Housing Radius Which Bearing Corner Will Clear		Maximum Shaft/Housing Radius Which Bearing Corner Will Clear		Contact Angle	nd ²	Static Capacity		Basic Dynamic Load Rating	Bearing Nomenclature			Attainable Speeds (RPM)		
	d		D		B		r ₁ Max.		r ₂ Max. Non-Thrust Side				C ₀ (kN)	T ₀ (kN)		C (kN)				Oil	Grease
	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch											
310H	50.000	1.9685	110.000	4.3307	27.000	1.0630	2.00	0.080	1.00	0.040	15°	6.1875	62.31	89.55	75.11	-	-	310HJH	30,000	20,000	
211H	55.000	2.1654	100.000	3.9370	21.000	0.8268	1.50	0.060	0.76	0.030	15°	4.4297	48.71	67.25	52.96	-	-	211HJH	27,200	18,000	
212H	60.000	2.3622	110.000	4.3307	22.000	0.8661	1.50	0.060	0.76	0.030	15°	5.4688	60.04	60.34	64.05	-	-	212HJH	25,000	16,600	
312H	60.000	2.3622	130.000	5.1181	31.000	1.2205	2.00	0.080	1.00	0.040	15°	10.500	87.77	132.05	105.28	-	-	312HJH	25,000	12,500	
113H	65.000	2.5591	100.000	3.9370	18.000	0.7087	1.00	0.040	0.50	0.020	15°	3.6367	43.32	47.35	40.05	-	-	113HJH	23,000	15,300	
113BX48	65.000	2.5591	100.000	3.9370	18.000	0.7087	1.00	0.040	0.50	0.020	15°	3.4453	26.79	57.05	30.96	113BX48	-	-	113BX48	23,000	15,300
214H	70.000	2.7559	125.000	4.9213	24.000	0.9449	1.50	0.060	0.76	0.030	15°	7.0898	78.73	108.09	79.38	-	-	214HJH	21,400	14,200	
115H	75.000	2.9528	115.000	4.5276	20.000	0.7874	1.00	0.040	0.50	0.020	15°	5.0000	59.65	79.41	52.66	-	-	115HJH	20,000	13,300	
117H	85.000	3.3465	130.000	5.1181	22.000	0.8661	1.00	0.040	0.50	0.020	15°	6.6445	79.33	105.14	67.20	-	-	117HJH	17,600	11,700	
117BX48	85.000	3.3465	130.000	5.1181	22.000	0.8661	1.00	0.040	0.50	0.020	15°	6.3281	49.35	105.16	52.09	117BX48	-	-	117BX48	17,600	11,700
118H	90.000	3.5433	140.000	5.5118	24.000	0.9449	1.50	0.060	0.76	0.030	15°	7.4219	87.95	117.80	76.40	-	-	118HJH	16,600	11,100	
220H	100.000	3.9370	180.000	7.0866	34.000	1.3386	2.00	0.080	1.00	0.040	15°	15.0000	166.01	229.28	155.92	-	-	220HJH	15,000	10,000	