

# Reali-Slim MM Metric Series Bearings

Kaydon created the thin section bearing standard of the industry in 1954 based on inch sizes. The Reali-Slim inch-standard bearing is still the most widely used thin section bearing in the world.

However, for those applications that require metric envelope dimensions or for dimensional interchangeability with other products, Kaydon offers the Reali-Slim MM series of bearings.

## These bearings are offered:

- in cross sections of 8, 13, and 20mm
- with bore diameters ranging from 20mm to 360mm
- with many of the same options found on standard Reali-Slim bearings

## The Reali-Slim MM series may also be customized for special applications with options such as:

- ceramic balls
- special lubes
- integral seals

Consult Kaydon engineering or your Kaydon representative for details on customization.



Download Reali-Design MM software from our website, [www.kaydonbearings.com](http://www.kaydonbearings.com), to obtain specific load/life and other performance data not shown here.

## Reali-Slim MM Bearings Availability

Series	Type	Bore Diameter in Millimeters																							
		25	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200	250	300	320	340	360		
8mm Double Sealed	A	Available																							
	C	Available																		Not Available					
	X	Available																		Not Available					
8mm Open	A	Available																							
	C	Available																							
	X	Available																							
13mm Open	A	Available																							
	C	Available																							
	X	Available																							
20mm Open	A	Available																							
	C	Available																							
	X	Available																							

# Reali-Slim MM Metric Series Bearing Selections

## How to identify Reali-Slim MM Bearings using our part number code:

Standard and optional metric Reali-Slim bearings are marked for complete identification with a 9- or 10-digit part number.

Positions 1–9 identify materials, size, type, separator type, and precision. Position 10 (optional) identifies non-standard internal

fit, either preload or clearance. Custom and proprietary bearings cannot be identified by code, and are marked only with a 9-digit number.

Figure 2-8

Position	1	2	3	4	5	6	7	8	9	10
Nomenclature	Material	Bore (mm)			Width (mm)		Type	Separator	Precision	Internal Fit
<b>Example</b>	K	0	8	0	0	8	X	P	0	K

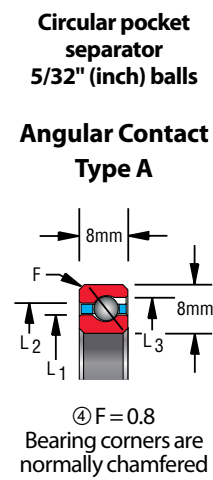
For a complete explanation of position numbers, please refer to [Pages 2-3](#).

## Type A – ANGULAR CONTACT

A deep groove bearing with reduced shoulder on one side of inner or outer race ball path. Snap-over assembly permits use of a one-piece circular pocket ring separator and greater ball complement. These bearings will accept radial load and single direction thrust load and are normally used in conjunction with another bearing of similar construction. Type A bearings require

the application of thrust to establish contact angle. Stock bearings are individual units and when purchased as such must be adjusted at installation to desired running clearance or preload. If preferred, matched sets are available. Kaydon also offers matched spacers for applications requiring extra precision. Kaydon can provide this service direct from the factory.

KAYDON Bearing Number	8mm Series					Capacities in Newtons <sup>①</sup>					Approx. Weight (kg)
	Dimensions in Millimeters		Land Diameters			Dynamic			Static <sup>②</sup>		
	Size					KAYDON Radial	ISO Radial <sup>③</sup>	Axial	Radial	Axial	
	Bore	Outside Dia.	L <sub>1</sub>	L <sub>2</sub>	L <sub>3</sub>						
K02508ARO	25	41	30.9	35.1	37.2	2667	5205	5502	3648	10523	0.06
K05008ARO	50	66	55.9	60.1	62.2	3599	6638	8032	6433	18574	0.08
K06008ARO	60	76	65.9	70.1	72.2	4001	7176	9071	7718	22291	0.09
K07008ARO	70	86	75.9	80.1	82.2	4315	7530	9895	8787	25380	0.10
K08008ARO	80	96	85.9	90.1	92.2	4609	7855	10689	9865	28469	0.12
K09008ARO	90	106	95.9	100.1	102.2	4952	8263	11591	11150	32185	0.13
K10008ARO	100	116	105.9	110.1	112.2	5227	8539	12327	12219	35284	0.14
K11008ARO	110	126	115.9	120.1	122.2	5502	8800	13033	13298	38383	0.15
K12008ARO	120	136	125.9	130.1	132.2	5757	9048	13729	14367	41472	0.16
K13008ARO	130	146	135.9	140.1	142.2	6061	9370	14533	15651	45189	0.17
K14008ARO	140	156	145.9	150.1	152.2	6306	9592	15191	16730	48278	0.18
K15008ARO	150	166	155.9	160.1	162.2	6541	9805	15838	17799	51377	0.20
K16008ARO	160	176	165.9	170.1	172.2	6825	10086	16583	19084	55094	0.20
K17008ARO	170	186	175.9	180.1	182.1	7061	10282	17201	20153	58183	0.21
K18008ARO	180	196	185.9	190.1	192.1	7277	10472	17809	21231	61282	0.22
K19008ARO	190	206	195.9	200.1	202.1	7541	10723	18525	22516	64998	0.23
K20008ARO	200	216	205.9	210.1	212.1	7757	10900	19103	23585	68097	0.23
K25008ARO	250	266	255.9	260.1	262.1	8797	11772	22006	29165	84190	0.28
K30008ARO	300	316	305.9	310.1	312.1	9797	12596	24830	34951	100901	0.33
K32008ARO	320	336	325.9	330.1	332.1	10189	12910	25939	37314	107706	0.36
K34008ARO	340	356	345.9	350.1	352.1	10523	13164	26919	39452	113894	0.38
K36008ARO	360	376	365.9	370.1	372.1	10885	13457	27988	41816	120710	0.40

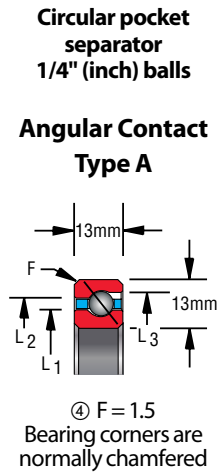


① Capacities listed are not simultaneous. For combined loading see discussion of Bearing Selection and Load Analysis. Dynamic capacities are based upon 1 million revolutions of L10 life. Published capacities do not apply to hybrid series bearings P, X, and Y - contact Kaydon product engineering for values.  
 ② Static capacities are non-brinell limits based on rigid support from the shaft and housing.  
 ③ ISO Radial ratings are calculated per ISO 281:1990. They are included for comparison only (refer to [Page 95](#)).  
 ④ "F" is the maximum shaft or housing fillet radius the bearing corners will clear.

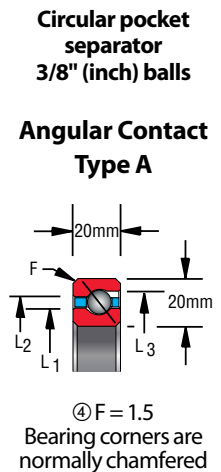
# Type A – Real-Slim MM Metric Series Bearing Selections, ANGULAR CONTACT

Selection Tables  
Section 2

13mm Series											
KAYDON Bearing Number	Dimensions in Millimeters					Capacities in Newtons <sup>①</sup>					Approx. Weight (kg)
	Size		Land Diameters			Dynamic			Static <sup>②</sup>		
	Bore	Outside Dia.	L <sub>1</sub>	L <sub>2</sub>	L <sub>3</sub>	KAYDON Radial	ISO Radial <sup>③</sup>	Axial	Radial	Axial	
K02513ARO	25	51	34.7	41.3	44.7	5433	9563	10542	6041	17436	0.13
K05013ARO	50	76	59.7	66.3	69.6	7110	12574	15171	10434	30106	0.20
K06013ARO	60	86	69.7	76.3	79.6	7669	13385	16730	12082	34863	0.22
K07013ARO	70	96	79.7	86.3	89.6	8434	14482	18691	14278	41198	0.25
K08013ARO	80	106	89.7	96.3	99.6	8953	15113	20104	15916	45954	0.28
K09013ARO	90	116	99.7	106.3	109.6	9454	15696	21477	17564	50710	0.31
K10013ARO	100	126	109.7	116.3	119.6	9934	16240	22791	19211	55466	0.34
K11013ARO	110	136	119.7	126.3	129.6	10405	16750	24075	20859	60223	0.37
K12013ARO	120	146	129.7	136.3	139.6	10866	17233	25331	22506	64969	0.39
K13013ARO	130	156	139.7	146.3	149.6	11484	17959	26949	24703	71314	0.42
K14013ARO	140	166	149.7	156.3	159.5	11915	18386	28135	26350	76070	0.45
K15013ARO	150	176	159.7	166.3	169.5	12337	18795	29292	27998	80817	0.48
K16013ARO	160	186	169.7	176.3	179.5	12758	19189	30440	29646	85573	0.51
K17013ARO	170	196	179.7	186.3	189.5	13161	19568	31548	31293	90329	0.54
K18013ARO	180	206	189.7	196.3	199.5	13553	19935	32646	32941	95085	0.56
K19013ARO	190	216	199.7	206.3	209.5	13945	20289	33725	34588	99842	0.59
K20013ARO	200	226	209.7	216.3	219.4	14475	20841	35137	36775	106177	0.62
K25013ARO	250	276	259.7	266.3	269.4	16269	22401	40207	45013	129948	0.76
K30013ARO	300	326	309.7	316.3	319.3	18044	23952	45287	53799	155308	0.90
K32013ARO	320	346	329.7	336.3	339.3	18672	24463	47111	57094	164811	0.96
K34013ARO	340	366	349.7	356.3	359.2	19398	25107	49200	60929	175902	1.02
K36013ARO	360	386	369.7	376.3	379.2	19986	25579	50955	64234	185414	1.07



20mm Series											
KAYDON Bearing Number	Dimensions in Millimeters					Capacities in Newtons <sup>①</sup>					Approx. Weight (kg)
	Size		Land Diameters			Dynamic			Static <sup>②</sup>		
	Bore	Outside Dia.	L <sub>1</sub>	L <sub>2</sub>	L <sub>3</sub>	KAYDON Radial	ISO Radial <sup>③</sup>	Axial	Radial	Axial	
K02520ARO	25	65	40.0	50.0	55	11327	17632	20741	11121	32087	0.31
K05020ARO	50	90	65.0	75.0	80	14318	23688	29155	18525	53485	0.49
K06020ARO	60	100	75.0	85.0	90	15171	25112	31685	20996	60615	0.56
K07020ARO	70	110	85.0	95.0	100	16014	26377	34127	23467	67744	0.62
K08020ARO	80	120	95.0	105.0	110	16838	27523	36481	25939	74874	0.69
K09020ARO	90	130	105.0	115.0	120	18152	29396	39884	29646	85573	0.77
K10020ARO	100	140	115.0	125.0	130	18917	30333	42071	32117	92702	0.84
K11020ARO	110	150	125.0	135.0	140	19662	31212	44199	34588	99842	0.91
K12020ARO	120	160	135.0	145.0	150	20398	32042	46278	37050	106971	0.97
K13020ARO	130	170	145.0	155.0	160	21124	32831	48317	39521	114100	1.04
K14020ARO	140	180	155.0	165.0	170	21830	33583	50308	41992	121230	1.11
K15020ARO	150	190	165.0	175.0	180	22938	34936	53221	45699	131929	1.19
K16020ARO	160	200	175.0	185.0	190	23605	35607	55123	48170	139058	1.26
K17020ARO	170	210	185.0	195.0	200	24262	36255	56986	50465	146188	1.32
K18020ARO	180	220	195.0	205.0	210	24909	36881	58830	53113	153317	1.39
K19020ARO	190	230	205.0	215.0	220	25546	37488	60635	55584	160447	1.46
K20020ARO	200	240	215.0	225.0	230	26537	38615	63302	59281	171146	1.54
K25020ARO	250	290	265.0	275.0	280	29822	41745	72648	72873	210372	1.89
K30020ARO	300	340	315.0	325.0	330	32529	44076	80630	85230	246029	2.23
K32020ARO	320	360	335.0	345.0	350	33872	45360	84484	91408	263858	2.37
K34020ARO	340	380	355.0	365.0	370	34872	46191	87505	96341	278117	2.51
K36020ARO	360	400	375.0	385.0	390	36138	47377	91202	102519	295945	2.66



① Capacities listed are not simultaneous. For combined loading see discussion of Bearing Selection and Load Analysis. Dynamic capacities are based upon 1 million revolutions of L10 life. Published capacities do not apply to hybrid series bearings P, X, and Y - contact Kaydon product engineering for values.

② Static capacities are non-brinell limits based on rigid support from the shaft and housing.

③ ISO Radial ratings are calculated per ISO 281:1990. They are included for comparison only (refer to Page 95).

④ "F" is the maximum shaft or housing fillet radius the bearing corners will clear.

# Reali-Slim MM Metric Series Bearing Selections

## Type C – RADIAL CONTACT

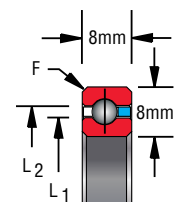
A Conrad assembled bearing designed primarily for application of radial load—deep ball grooves also permit application of

thrust load in either direction – often used in conjunction with another bearing.

8mm Series								
KAYDON Bearing Number	Dimensions in Millimeters				Capacities in Newtons <sup>①</sup>			Approx. Wt. in (kg)
	Size		Land Diameters		Dynamic		Static <sup>②</sup>	
	Bore	Outside Dia.	L <sub>1</sub>	L <sub>2</sub>	KAYDON Radial	ISO Radial <sup>③</sup>	Radial	
<b>K02508CPO</b>	25	41	30.9	35.1	2501	4686	2971	0.06
<b>K05008CPO</b>	50	66	55.9	60.1	3432	6200	5452	0.08
<b>K06008CPO</b>	60	76	65.9	70.1	3766	6645	6433	0.09
<b>K07008CPO</b>	70	86	75.9	80.1	4089	7041	7433	0.10
<b>K08008CPO</b>	80	96	85.9	90.1	4393	7399	8424	0.11
<b>K09008CPO</b>	90	106	95.9	100.1	4688	7728	9405	0.13
<b>K10008CPO</b>	100	116	105.9	110.1	4972	8034	10405	0.14
<b>K11008CPO</b>	110	126	115.9	120.1	5237	8319	11395	0.15
<b>K12008CPO</b>	120	136	125.9	130.1	5502	8588	12376	0.16
<b>K13008CPO</b>	130	146	135.9	140.1	5766	8843	13376	0.17
<b>K14008CPO</b>	140	156	145.9	150.1	6011	9085	14367	0.18
<b>K15008CPO</b>	150	166	155.9	160.1	6257	9317	15347	0.20
<b>K16008CPO</b>	160	176	165.9	170.1	6492	9538	16338	0.20
<b>K17008CPO</b>	170	186	175.9	180.1	6727	9751	17328	0.20
<b>K18008CPO</b>	180	196	185.9	190.1	6953	9956	18319	0.21
<b>K19008CPO</b>	190	206	195.9	200.1	7110	10067	19064	0.21
<b>K20008CPO</b>	200	216	205.9	210.1	7335	10261	20055	0.22
<b>K25008CPO</b>	250	266	255.9	260.1	8365	11146	25007	0.28
<b>K30008CPO</b>	300	316	305.9	310.1	9307	11924	29959	0.35
<b>K32008CPO</b>	320	336	325.9	330.1	9660	12211	31940	0.39
<b>K34008CPO</b>	340	356	345.9	350.1	9964	12427	33921	0.42
<b>K36008CPO</b>	360	376	365.9	370.1	10297	12695	35657	0.46

Snap-over separator  
5/32" (inch) balls

Conrad Assembly  
Type C

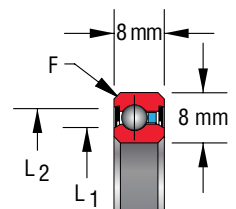


⑤ F = 0.8  
Bearing corners are normally chamfered

8mm Series (Double Sealed)										
KAYDON Bearing Number	Dimensions in Millimeters				Capacities in Newtons <sup>①</sup>			Limiting Speeds (RPM*)	Torque Max. No Load (N-m) <sup>④</sup>	Approx. Wt. in (kg)
	Size		Land Diameters		Dynamic		Static <sup>②</sup>			
	Bore	Outside Dia.	L <sub>1</sub>	L <sub>2</sub>	KAYDON Radial	ISO Radial <sup>③</sup>	Radial			
<b>J02508CPO</b>	25	41	31.55	34.42	2501	4686	2971	5580	0.02	0.06
<b>J05008CPO</b>	50	66	56.55	59.42	3432	6200	5452	3180	0.04	0.08
<b>J06008CPO</b>	60	76	66.55	69.42	3766	6645	6433	2710	0.05	0.09
<b>J07008CPO</b>	70	86	76.55	79.42	4089	7041	7433	2360	0.07	0.10
<b>J08008CPO</b>	80	96	86.55	89.42	4393	7399	8424	2090	0.09	0.11
<b>J09008CPO</b>	90	106	96.55	99.42	4688	7728	9405	1880	0.12	0.13
<b>J10008CPO</b>	100	116	106.55	109.42	4972	8034	10405	1700	0.15	0.14
<b>J11008CPO</b>	110	126	116.55	119.42	5237	8319	11395	1560	0.18	0.15
<b>J12008CPO</b>	120	136	126.55	129.42	5502	8588	12376	1440	0.22	0.16
<b>J13008CPO</b>	130	146	136.55	139.42	5766	8843	13376	1330	0.26	0.17
<b>J14008CPO</b>	140	156	146.55	149.42	6011	9085	14367	1240	0.30	0.18
<b>J15008CPO</b>	150	166	156.55	159.42	6257	9317	15347	1160	0.35	0.20
<b>J16008CPO</b>	160	176	166.55	169.42	6492	9538	16338	1090	0.40	0.20
<b>J17008CPO</b>	170	186	176.55	179.42	6727	9751	17328	1030	0.46	0.20

Snap-over separator  
5/32" (inch) balls

Conrad Assembly  
Type C



⑤ F = 0.8  
Bearing corners are normally chamfered

① Capacities listed are not simultaneous. For combined loading see discussion of [Bearing Selection](#) and [Load Analysis](#). Dynamic capacities are based upon 1 million revolutions of L10 life. Published capacities do not apply to hybrid series bearings P, X, and Y - contact Kaydon product engineering for values.

② Static capacities are non-brinell limits based on rigid support from the shaft and housing.

③ ISO Radial ratings are calculated per ISO 281:1990. They are included for comparison only (refer to [Page 95](#)).

④ Torque figures shown are for single bearings with standard internal fit-up, standard lubricant at room temperature, and under 5 pounds thrust load.

⑤ "F" is the maximum shaft or housing fillet radius the bearing corners will clear.

\*Values apply to bearings loaded up to 20% of their dynamic capacity.

# Type C – Reali-Slim MM Metric Series Bearing Selections, RADIAL CONTACT

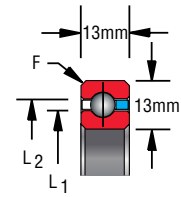
Selection Tables

Section 2

13mm Series								
KAYDON Bearing Number	Dimensions in Millimeters				Capacities in Newtons <sup>①</sup>			Approx. Wt. in (kg)
	Size		Land Diameters		Dynamic		Static <sup>②</sup>	
	Bore	Outside Dia.	L <sub>1</sub>	L <sub>2</sub>	KAYDON Radial	ISO Radial <sup>③</sup>		
K02513CP0	25	51	34.7	41.3	5247	8660	5070	0.11
K05013CP0	50	76	59.7	66.3	6835	11706	8875	0.18
K06013CP0	60	86	69.7	76.3	7600	12902	10778	0.21
K07013CP0	70	96	79.7	86.3	8032	13476	12043	0.24
K08013CP0	80	106	89.7	96.3	8453	13999	13317	0.26
K09013CP0	90	116	99.7	106.3	9130	14898	15210	0.29
K10013CP0	100	126	109.7	116.3	9522	15328	16485	0.32
K11013CP0	110	136	119.7	126.3	10150	16106	18387	0.35
K12013CP0	120	146	129.7	136.3	10523	16476	19653	0.38
K13013CP0	130	156	139.7	146.3	10885	16829	20918	0.41
K14013CP0	140	166	149.7	156.3	11464	17494	22820	0.44
K15013CP0	150	176	159.7	166.3	11807	17810	24085	0.46
K16013CP0	160	186	169.7	176.3	12150	18116	25360	0.49
K17013CP0	170	196	179.7	186.3	12690	18703	27262	0.52
K18013CP0	180	206	189.7	196.3	13013	18982	28528	0.55
K19013CP0	190	216	199.7	206.3	13337	19254	29793	0.58
K20013CP0	200	226	209.7	216.3	13837	19784	31695	0.61
K25013CP0	250	276	259.7	266.3	15671	21458	39305	0.75
K30013CP0	300	326	309.7	316.3	17201	22721	46278	0.89
K32013CP0	320	346	329.7	336.3	17878	23312	49445	0.95
K34013CP0	340	366	349.7	356.3	18525	23879	52613	1.01
K36013CP0	360	386	369.7	376.3	19162	24424	55780	1.06

Snap-over separator  
1/4" (inch) balls

Conrad Assembly  
Type C

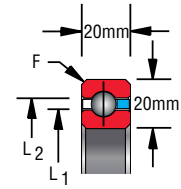


④ F = 1.5  
Bearing corners are normally chamfered

20mm Series								
KAYDON Bearing Number	Dimensions in Millimeters				Capacities in Newtons <sup>①</sup>			Approx. Wt. in (kg)
	Size		Land Diameters		Dynamic		Static <sup>②</sup>	
	Bore	Outside Dia.	L <sub>1</sub>	L <sub>2</sub>	KAYDON Radial	ISO Radial <sup>③</sup>		
K02520CP0	25	65	40.0	50.0	11552	16436	9983	0.34
K05020CP0	50	90	65.0	75.0	13827	21778	15691	0.51
K06020CP0	60	100	75.0	85.0	14239	22616	17113	0.58
K07020CP0	70	110	85.0	95.0	15426	24527	19966	0.65
K08020CP0	80	120	95.0	105.0	15857	25129	21388	0.72
K09020CP0	90	130	105.0	115.0	16966	26740	24252	0.80
K10020CP0	100	140	115.0	125.0	17387	27213	25674	0.86
K11020CP0	110	150	125.0	135.0	18437	28623	28528	0.94
K12020CP0	120	160	135.0	145.0	19437	29931	31381	1.01
K13020CP0	130	170	145.0	155.0	19839	30282	32803	1.08
K14020CP0	140	180	155.0	165.0	20800	31468	35657	1.15
K15020CP0	150	190	165.0	175.0	21192	31776	37079	1.20
K16020CP0	160	200	175.0	185.0	22104	32867	39933	1.30
K17020CP0	170	210	185.0	195.0	22487	33145	42786	1.40
K18020CP0	180	220	195.0	205.0	23369	34159	44208	1.50
K19020CP0	190	230	205.0	215.0	24222	35126	47072	1.50
K20020CP0	200	240	215.0	225.0	24585	35363	48494	1.60
K25020CP0	250	290	265.0	275.0	27665	38384	59899	2.10
K30020CP0	300	340	315.0	325.0	30508	41029	71314	2.30
K32020CP0	320	360	335.0	345.0	31509	41900	75590	2.42
K34020CP0	340	380	355.0	365.0	32480	42740	79865	2.54
K36020CP0	360	400	375.0	385.0	33421	43552	84151	2.70

Snap-over separator  
3/8" (inch) balls

Conrad Assembly  
Type C



④ F = 1.5  
Bearing corners are normally chamfered

① Capacities listed are not simultaneous. For combined loading see discussion of Bearing Selection and Load Analysis. Dynamic capacities are based upon 1 million revolutions of L10 life. Published capacities do not apply to hybrid series bearings P, X, and Y - contact Kaydon product engineering for values.

② Static capacities are non-brinell limits based on rigid support from the shaft and housing.

③ ISO Radial ratings are calculated per ISO 281:1990. They are included for comparison only (refer to Page 95).

④ "F" is the maximum shaft or housing fillet radius the bearing corners will clear.



# Reali-Slim MM Metric Series Bearing Selections, Type X – FOUR-POINT CONTACT

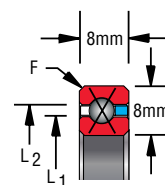
A Conrad assembled bearing designed for applications involving multiple loads. Unique internal geometry permits application of radial load, thrust load in either direction, and moment load,

individually or in any combination. A single four-point contact bearing may replace two bearings in many applications.

8mm Series											
KAYDON Bearing Number	Dimensions in Millimeters				Capacities <sup>①</sup>						Approx. Weight (kg)
	Size		Land Diameters		Dynamic			Static <sup>②</sup>			
	Bore	Outside Dia.	L <sub>1</sub>	L <sub>2</sub>	Radial (N)	Thrust (N)	Moment (N-m)	Radial (N)	Thrust (N)	Moment (N-m)	
K02508XP0	25	41	30.9	35.1	3246	4599	40	3275	7433	49	0.06
K05008XP0	50	66	55.9	60.1	4511	6531	98	5443	13621	158	0.08
K06008XP0	60	76	65.9	70.1	4962	7306	127	6433	16093	219	0.09
K07008XP0	70	86	75.9	80.1	5384	8032	158	7424	18574	290	0.10
K08008XP0	80	96	85.9	90.1	5796	8728	191	8424	21045	370	0.11
K09008XP0	90	106	95.9	100.1	6188	9405	228	9405	23526	461	0.13
K10008XP0	100	116	105.9	110.1	6570	10052	266	10395	25997	562	0.14
K11008XP0	110	126	115.9	120.1	6933	10689	307	11395	28469	672	0.15
K12008XP0	120	136	125.9	130.1	7286	11297	350	12376	30950	792	0.16
K13008XP0	130	146	135.9	140.1	7630	11886	395	13366	33431	923	0.18
K14008XP0	140	156	145.9	150.1	7963	12464	442	14367	35902	1063	0.19
K15008XP0	150	166	155.9	160.1	8296	13033	492	15347	38383	1213	0.20
K16008XP0	160	176	165.9	170.1	8610	13592	543	16338	40855	1373	0.20
K17008XP0	170	186	175.9	180.1	8924	14131	596	17328	43326	1543	0.20
K18008XP0	180	196	185.9	190.1	9228	14661	651	18319	45807	1722	0.21
K19008XP0	190	206	195.9	200.1	9444	15063	701	19064	47660	1888	0.21
K20008XP0	200	216	205.9	210.1	9728	15573	759	20055	50141	2086	0.22
K25008XP0	250	266	255.9	260.1	11111	18044	1075	25007	62517	3226	0.28
K30008XP0	300	316	305.9	310.1	12366	20359	1429	29959	74903	4614	0.35
K32008XP0	320	336	325.9	330.1	12847	21241	1580	31940	79856	5238	0.39
K34008XP0	340	356	345.9	350.1	13239	22114	1728	33921	84808	5859	0.42
K36008XP0	360	376	365.9	370.1	13690	22849	1890	35657	89133	6561	0.46

Snap-over separator  
5/32" (inch) balls

4 Point Contact  
Type X

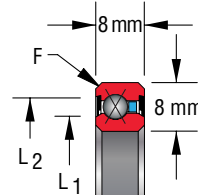


④ F = 0.8  
Bearing corners are normally chamfered

8mm Series (Double Sealed)													
KAYDON Bearing Number	Dimensions in Millimeters				Capacities <sup>①</sup>						Limiting Speeds (RPM*)	Torque Max. No Load (N-m) <sup>③</sup>	Approx. Wt. in (kg)
	Size		Land Diameters		Dynamic			Static <sup>②</sup>					
	Bore	Outside Dia.	L <sub>1</sub>	L <sub>2</sub>	Radial (N)	Thrust (N)	Moment (N-m)	Radial (N)	Thrust (N)	Moment (N-m)			
J02508XP0	25	41	31.55	34.42	3246	4599	40	3275	7433	49	3000	0.02	0.06
J05008XP0	50	66	56.55	59.42	4511	6531	98	5443	13621	158	1500	0.04	0.08
J06008XP0	60	76	66.55	69.42	4962	7306	127	6433	16093	219	1270	0.05	0.09
J07008XP0	70	86	76.55	79.42	5384	8032	158	7424	18574	290	1090	0.07	0.10
J08008XP0	80	96	86.55	89.42	5796	8728	191	8424	21045	370	950	0.09	0.11
J09008XP0	90	106	96.55	99.42	6188	9405	228	9405	23526	461	700	0.12	0.13
J10008XP0	100	116	106.55	109.42	6570	10052	266	10395	25997	562	630	0.15	0.14
J11008XP0	110	126	116.55	119.42	6933	10689	307	11395	28469	672	580	0.18	0.15
J12008XP0	120	136	126.55	129.42	7286	11297	350	12376	30950	792	530	0.22	0.16
J13008XP0	130	146	136.55	139.42	7630	11886	395	13366	33431	923	490	0.26	0.18
J14008XP0	140	156	146.55	149.42	7963	12464	442	14367	35902	1063	450	0.30	0.19
J15008XP0	150	166	156.55	159.42	8296	13033	492	15347	38383	1213	420	0.35	0.20
J16008XP0	160	176	166.55	169.42	8610	13592	543	16338	40855	1373	400	0.40	0.20
J17008XP0	170	186	176.55	179.42	8924	14131	596	17328	43326	1543	370	0.46	0.20

Snap-over separator  
5/32" (inch) balls

4 Point Contact  
Type X



④ F = 0.8  
Bearing corners are normally chamfered

① Capacities listed are not simultaneous. For combined loading see discussion of Bearing Selection and Load Analysis. Dynamic capacities are based upon 1 million revolutions of L10 life. Published capacities do not apply to hybrid series bearings P, X, and Y - contact Kaydon product engineering for values.  
 ② Static capacities are non-brinell limits based on rigid support from the shaft and housing.  
 ③ Torque figures shown are for single bearings with standard internal fit-up, standard lubricant at room temperature, and under 5 pounds thrust load.  
 ④ "F" is the maximum shaft or housing fillet radius the bearing corners will clear.  
 \*Values apply to bearings loaded up to 20% of their dynamic capacity.

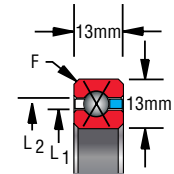
# Type X – Reali-Slim MM Metric Series Bearing Selections, FOUR-POINT CONTACT

Selection Tables  
Section 2

13mm Series											
KAYDON Bearing Number	Dimensions in Millimeters				Capacities <sup>①</sup>						Approx. Weight (kg)
	Size		Land Diameters		Dynamic			Static <sup>②</sup>			
	Bore	Outside Dia.	L <sub>1</sub>	L <sub>2</sub>	Radial (N)	Thrust (N)	Moment (N-m)	Radial (N)	Thrust (N)	Moment (N-m)	
K02513XP0	25	51	34.7	41.3	6757	8522	96	6825	12680	96	0.13
K05013XP0	50	76	59.7	66.3	8924	12023	211	9012	22192	280	0.20
K06013XP0	60	86	69.7	76.3	9944	14082	272	10778	26939	393	0.23
K07013XP0	70	96	79.7	86.3	10532	15171	328	12043	30106	500	0.26
K08013XP0	80	106	89.7	96.3	11111	16210	388	13317	33274	619	0.28
K09013XP0	90	116	99.7	106.3	12003	17730	464	15210	38030	784	0.31
K10013XP0	100	126	109.7	116.3	12543	18691	532	16485	41198	931	0.34
K11013XP0	110	136	119.7	126.3	13376	20104	617	18387	45954	1131	0.37
K12013XP0	120	146	129.7	136.3	13876	21025	693	19672	49131	1307	0.40
K13013XP0	130	156	139.7	146.3	14377	21918	771	20918	52299	1496	0.43
K14013XP0	140	166	149.7	156.3	15141	23222	869	22820	57045	1746	0.46
K15013XP0	150	176	159.7	166.3	15612	24075	954	24085	60223	1963	0.48
K16013XP0	160	186	169.7	176.3	16073	24919	1043	25360	63390	2193	0.51
K17013XP0	170	196	179.7	186.3	16779	26145	1152	27262	68146	2494	0.54
K18013XP0	180	206	189.7	196.3	17220	26949	1247	28528	71314	2753	0.57
K19013XP0	190	216	199.7	206.3	17652	27743	1344	29793	74482	3024	0.60
K20013XP0	200	226	209.7	216.3	18319	28910	1464	31695	79238	3375	0.63
K25013XP0	250	276	259.7	266.3	20780	33372	2050	39305	98253	5168	0.77
K30013XP0	300	326	309.7	316.3	22820	37206	2680	46278	115679	7242	0.91
K32013XP0	320	346	329.7	336.3	23722	38893	2963	49445	123613	8232	0.97
K34013XP0	340	366	349.7	356.3	24595	40531	3257	52613	131527	9286	1.02
K36013XP0	360	386	369.7	376.3	25438	42149	3560	55780	139451	10403	1.08

Snap-over separator  
1/4" (inch) balls

4 Point Contact  
Type X

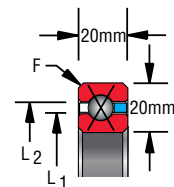


③ F = 1.5  
Bearing corners are normally chamfered

20mm Series											
KAYDON Bearing Number	Dimensions in Millimeters				Capacities <sup>①</sup>						Approx. Weight (kg)
	Size		Land Diameters		Dynamic			Static <sup>②</sup>			
	Bore	Outside Dia.	L <sub>1</sub>	L <sub>2</sub>	Radial (N)	Thrust (N)	Moment (N-m)	Radial (N)	Thrust (N)	Moment (N-m)	
K02520XP0	25	65	40.0	50.0	14739	17544	225	14886	24958	225	0.34
K05020XP0	50	90	65.0	75.0	17917	23712	470	18093	39217	549	0.52
K06020XP0	60	100	75.0	85.0	18505	25125	556	18691	42786	685	0.59
K07020XP0	70	110	85.0	95.0	20104	27841	679	20310	49916	899	0.66
K08020XP0	80	120	95.0	105.0	20702	29155	777	21388	53485	1070	0.73
K09020XP0	90	130	105.0	115.0	22192	31685	916	24252	60615	1334	0.80
K10020XP0	100	140	115.0	125.0	22781	32921	1026	25674	64185	1540	0.87
K11020XP0	110	150	125.0	135.0	24183	35314	1179	28528	71314	1854	0.94
K12020XP0	120	160	135.0	145.0	25527	37628	1341	31381	78443	2196	1.01
K13020XP0	130	170	145.0	155.0	26086	38766	1468	32803	82013	2460	1.07
K14020XP0	140	180	155.0	165.0	27370	40982	1643	35657	89142	2852	1.15
K15020XP0	150	190	165.0	175.0	27900	42071	1779	37079	92702	3152	1.22
K16020XP0	160	200	175.0	185.0	29126	44199	1967	39933	99832	3594	1.30
K17020XP0	170	210	185.0	195.0	29646	46278	2113	42786	106961	3929	1.37
K18020XP0	180	220	195.0	205.0	30822	47297	2312	44208	110531	4421	1.44
K19020XP0	190	230	205.0	215.0	31970	49318	2519	47072	117670	4942	1.51
K20020XP0	200	240	215.0	225.0	32450	50308	2678	48494	121230	5334	1.57
K25020XP0	250	290	265.0	275.0	36589	57918	3706	59899	149757	8087	2.10
K30020XP0	300	340	315.0	325.0	40394	65048	4849	71314	178275	11410	2.30
K32020XP0	320	360	335.0	345.0	41727	67636	5323	75590	188974	12850	2.44
K34020XP0	340	380	355.0	365.0	43032	70157	5812	79865	199673	14376	2.58
K36020XP0	360	400	375.0	385.0	44306	72648	6316	84151	210372	15988	2.73

Snap-over separator  
3/8" (inch) balls

4 Point Contact  
Type X



③ F = 1.5  
Bearing corners are normally chamfered

① Capacities listed are not simultaneous. For combined loading see discussion of [Bearing Selection](#) and [Load Analysis](#). Dynamic capacities are based upon 1 million revolutions of L10 life. Published capacities do not apply to hybrid series bearings P, X, and Y - contact Kaydon product engineering for values.

② Static capacities are non-brinell limits based on rigid support from the shaft and housing.

③ "F" is the maximum shaft or housing fillet radius the bearing corners will clear.