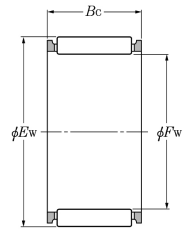


Needle Roller and Cage Assemblies:

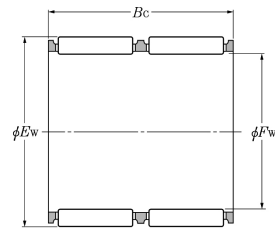
Needle Roller Cage assembly includes needle rollers and a cage that guides and retains the rollers. These assemblies use both the shaft and housing as raceway surfaces. These bearing have high load carrying capacities. They are suitable for High Speed. They are particularly easy to install. These assemblies are available in both single row and double-row configurations. As long as the tolerance limits of the shaft and housing are satisfied, the bearing radial internal clearance can be adjusted.



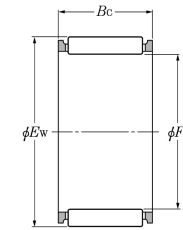
Suffix and Corresponding Description for Needle Roller and Cage Assemblies	
Suffix	Description of Suffix
TV	Polyamide Resin Cage
No Symbol	Steel Cage
ZW	Double Row Cage
P6	JIS Class 6
P5	JIS Class 5
P4	JIS Class 4



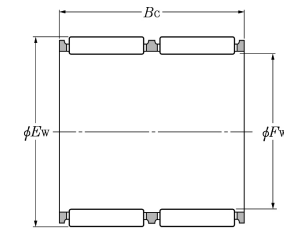
Type K



Type K · ZW



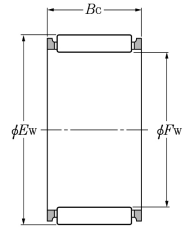
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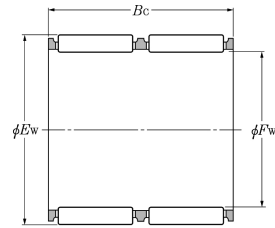
Type K · ZW

Boundary Dimensions			Basic Load Rating		Limiting Speed		Bearing Deignation	Mass Approx
(mm)			(KN)		(rpm)			(kg)
F _w	E _w	B _c	Cr	Cor	Grease	Oil		
3	6	7	1.46	0.97	33000	50000	K3X6X7	0.0004
3	6	8	1.56	1.33	30000	45000	K4X6X7.8	0.0003
4	7	7	1.77	1.27	30000	45000	K4X7X7	0.0005
5	8	8	2.64	2.19	27000	40000	K5X8X8	0.0007
5	8	10	2.72	2.25	27000	40000	K5X8X10	0.0009
6	9	8	2.66	2.28	25000	37000	K6X9X8	0.0009
6	9	10	3.40	3.15	25000	37000	K6X9X10	0.0011
6	10	13	4.40	3.70	25000	37000	K6X10X13	0.0019
7	10	8	2.67	2.35	23000	34000	K7X10X8	0.0009
7	10	10	3.40	3.20	23000	34000	K7X10X10	0.0011
7	10	13	5.05	5.40	23000	34000	K7X10X12.8	0.0023
8	11	8	3.15	3.00	21000	32000	K8X11X8	0.0011
8	11	9	3.15	3.00	21000	32000	K8X11X8.8	0.0019
8	11	10	4.00	4.10	21000	32000	K8X11X10	0.0013
8	11	12	4.45	4.65	21000	32000	K8X11X11.8	0.0025
8	11	13	4.85	5.20	21000	32000	K8X11X13	0.0026
8	12	10	4.65	4.15	21000	32000	K8X12X10	0.0020
8	12	12	5.60	5.30	21000	32000	K8X12X11.8	0.0040
8	12	13	5.05	4.65	21000	32000	K8X12X13	0.0036
9	12	10	4.55	5.00	20000	30000	K9X12X10	0.0015
9	12	13	5.50	6.40	20000	30000	K9X12X13	0.0021
10	13	10	4.55	5.10	19000	28000	K10X13X10	0.0016
10	13	13	5.45	6.45	19000	28000	K10X13X12.8	0.0032
10	14	8	4.30	3.95	19000	28000	K10X14X8	0.0027
10	14	10	5.50	5.45	19000	28000	K10X14X10	0.0034
10	14	11	5.50	5.45	19000	28000	K10X14X10.8	0.0039
10	14	11.5	6.80	7.20	19000	28000	K10X14X11.3	0.0040
10	14	13	6.60	6.90	19000	28000	K10X14X13	0.0044
10	14	14	7.15	7.65	19000	28000	K10X14X13.8	0.0050
10	14	17	8.05	8.85	19000	28000	K10X14X16.8	0.0064

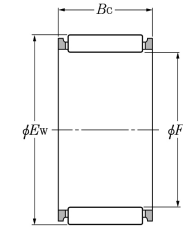
Boundary Dimensions			Basic Load Rating		Limiting Speed		Bearing Deignation	Mass Approx
(mm)			(KN)		(rpm)			(kg)
F _w	E _w	B _c	Cr	Cor	Grease	Oil		
10	16	12	7.10	5.95	19000	28000	K10X16X12	0.0066
11	14	10	5.05	6.00	18000	27000	K11X14X10	0.0028
12	15	9	4.45	5.25	17000	26000	K12X15X9	0.0027
12	15	10	5.00	6.10	17000	26000	K12X15X10	0.0030
12	15	13	6.00	7.70	17000	26000	K12X15X13	0.0038
12	15	20	8.55	12.20	17000	26000	K12X15X20ZW	0.0059
12	16	8	4.85	4.90	17000	26000	K12X16X8	0.0034
12	16	11.5	6.75	7.40	17000	26000	K12X16X11.3	0.0047
12	16	13	7.50	8.50	17000	26000	K12X16X13	0.0060
12	16	18	9.80	11.90	17000	26000	K12X16X17.8	0.0070
12	16	20	10.30	12.80	17000	26000	K12X16X19.8	0.0100
12	17	10	7.35	7.20	17000	26000	K12X17X9.8	0.0050
12	17	13	9.00	9.40	17000	26000	K12X17X13	0.0075
12	17	18	12.60	14.40	17000	26000	K12X17X17.8	0.0080
12	18	12	8.65	8.00	17000	26000	K12X18X12	0.0089
14	17	10	5.40	7.05	16000	24000	K14X17X10	0.0040
14	18	10	6.90	8.00	16000	24000	K14X18X10	0.0046
14	18	11	7.60	9.05	16000	24000	K14X18X11	0.0053
14	18	13	8.30	10.10	16000	24000	K14X18X13	0.0063
14	18	15	9.65	12.30	16000	24000	K14X18X15	0.0076
14	18	17	10.90	14.40	16000	24000	K14X18X17	0.0079
14	18	39	18.80	28.90	16000	24000	K14X18X39ZW	0.0180
14	19	13	8.95	9.65	16000	24000	K14X19X13	0.0080
14	20	12	9.35	9.15	16000	24000	K14X20X12	0.0095
14	20	17	13.50	14.60	16000	24000	K14X20X17	0.0140
15	18	14	7.85	11.60	15000	23000	K15X18X14	0.0060
15	19	8	5.35	5.85	15000	23000	K15X19X7.8	0.0033
15	19	10	6.85	8.05	15000	23000	K15X19X10	0.0055
15	19	13	8.25	10.20	15000	23000	K15X19X13	0.0067
15	19	17	10.90	14.60	15000	23000	K15X19X17	0.0090



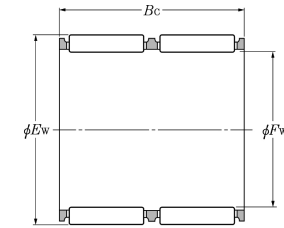
Type K



Type K · ZW



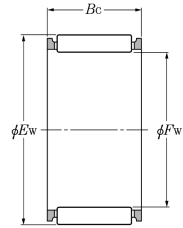
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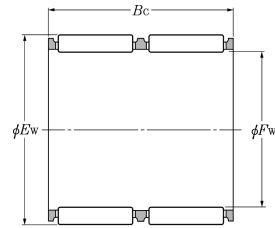
Type K · ZW

Boundary Dimensions			Basic Load Rating		Limiting Speed		Bearing Deignation	Mass Approx
(mm)			(KN)		(rpm)			(kg)
F _w	E _w	B _c	Cr	Cor	Grease	Oil		
15	19	24	14.10	20.40	15000	23000	K15X19X24ZW	0.0130
15	20	13	10.10	11.50	15000	23000	K15X20X13	0.0088
15	20	16	12.60	15.20	15000	23000	K15X20X15.8	0.0090
15	21	15	11.90	12.50	15000	23000	K15X21X15	0.0130
15	21	17	14.90	16.80	15000	23000	K15X21X16.8	0.0120
15	21	21	16.50	19.10	15000	23000	K15X21X21	0.0170
16	20	10	7.50	9.25	15000	23000	K16X20X10	0.0057
16	20	11	8.30	10.50	15000	23000	K16X20X11	0.0061
16	20	13	9.05	11.80	15000	23000	K16X20X13	0.0071
16	20	17	11.90	16.80	15000	23000	K16X20X17	0.0092
16	22	12	11.70	12.50	15000	23000	K16X22X12	0.0100
16	22	13	12.60	13.90	15000	23000	K16X22X13	0.0110
16	22	16	13.60	15.20	15000	23000	K16X22X15.8	0.0140
16	22	17	14.40	16.40	15000	23000	K16X22X17	0.0150
16	22	20	16.00	18.80	15000	23000	K16X22X20	0.0170
17	21	10	7.45	9.30	15000	22000	K17X21X10	0.0056
17	21	13	9.40	12.60	15000	22000	K17X21X13	0.0075
17	21	15	10.40	14.40	15000	22000	K17X21X15	0.0089
17	21	17	11.80	16.90	15000	22000	K17X21X17	0.0095
17	22	20	14.70	19.20	15000	22000	K17X22X20	0.0150
17	23	17	14.40	16.50	15000	22000	K17X23X17	0.0160
17	23	23	16.80	20.20	15000	22000	K17X23X22.8	0.0130
18	22	10	7.40	9.40	14000	21000	K18X22X10	0.0061
18	22	13	8.90	11.90	14000	21000	K18X22X13	0.0077
18	22	17	11.70	17.00	14000	21000	K18X22X17	0.0110
18	23	20	14.60	19.30	14000	21000	K18X23X20	0.0150
18	24	12	12.30	13.80	14000	21000	K18X24X12	0.0120
18	24	13	11.60	12.80	14000	21000	K18X24X13	0.0130
18	24	17	16.00	19.30	14000	21000	K18X24X17	0.0140
18	24	20	17.00	20.90	14000	21000	K18X24X20	0.0190

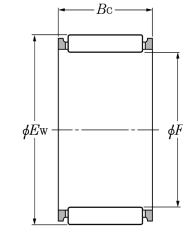
Boundary Dimensions			Basic Load Rating		Limiting Speed		Bearing Deignation	Mass Approx
(mm)			(KN)		(rpm)			(kg)
F _w	E _w	B _c	Cr	Cor	Grease	Oil		
18	25	17	18.00	20.40	14000	21000	K18X25X17	0.0190
18	25	22	22.10	26.60	14000	21000	K18X25X22	0.0240
19	23	13	9.65	13.50	14000	21000	K19X23X13	0.0082
19	23	17	12.70	19.20	14000	21000	K19X23X17	0.0110
20	24	10	8.30	11.20	13000	20000	K20X24X10	0.0065
20	24	11	9.50	13.40	13000	20000	K20X24X11	0.0072
20	24	13	10.00	14.30	13000	20000	K20X24X13	0.0086
20	24	17	13.20	20.40	13000	20000	K20X24X17	0.0110
20	24	45	16.40	27.10	13000	20000	K20X24X45ZW	0.0280
20	25	40	29.00	48.00	13000	20000	K20X25X40ZW	0.0330
20	26	12	12.90	15.10	13000	20000	K20X26X12	0.0130
20	26	13	14.00	16.70	13000	20000	K20X26X13	0.0120
20	26	14	15.80	19.60	13000	13000	K20X26X13.8	0.0130
20	26	17	17.80	22.80	13000	20000	K20X26X17	0.0160
20	26	20	20.60	27.60	13000	20000	K20X26X20	0.0190
20	28	17	21.70	24.60	13000	20000	K20X28X16.8	0.0220
20	28	20	24.60	28.90	13000	20000	K20X28X19.8	0.0260
20	28	25	27.10	32.50	13000	20000	K20X28X25	0.0390
21	25	13	10.70	15.90	13000	19000	K21X25X12.8	0.0081
21	25	17	13.60	21.50	13000	19000	K21X25X17	0.0120
22	26	10	8.50	11.90	12000	18000	K22X26X10	0.0071
22	26	11	10.10	14.90	12000	18000	K22X26X11	0.0090
22	26	13	10.20	15.20	12000	18000	K22X26X13	0.0094
22	26	17	13.50	21.60	12000	18000	K22X26X17	0.0120
22	27	20	17.50	25.90	12000	18000	K22X27X20	0.0200
22	27	28.5	24.20	39.50	12000	18000	K22X27X28.3	0.0276
22	27	40	50.50	103.00	12000	18000	K22X27X40ZW	0.0390
22	28	17	17.70	23.30	12000	18000	K22X28X17	0.0200
22	29	16	18.70	22.70	12000	18000	K22X29X16	0.0230
22	30	15	19.30	21.70	12000	18000	K22X30X15	0.0220



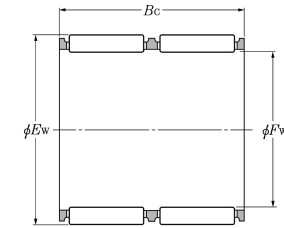
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Type K · ZW



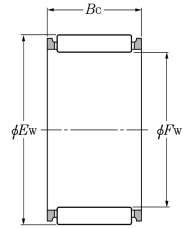
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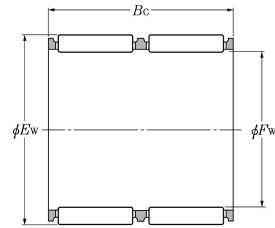
Type K · ZW

Boundary Dimensions			Basic Load Rating		Limiting Speed		Bearing Deignation	Mass Approx
(mm)			(KN)		(rpm)			(kg)
F _w	E _w	B _c	Cr	Cor	Grease	Oil		
22	30	17.5	23.20	27.50	12000	18000	K22X30X17.3	0.0240
22	30	24	31.00	40.00	12000	18000	K22X30X23.8	0.0348
23	27	13	11.40	17.70	11000	17000	K23X27X12.8	0.0086
23	28	24	19.80	31.00	11000	17000	K23X28X24	0.0230
23	29	18	20.60	28.80	11000	17000	K23X29X17.8	0.0190
24	28	10	9.00	13.20	11000	17000	K24X28X10	0.0080
24	28	13	10.80	16.80	11000	17000	K24X28X13	0.0100
24	28	17	14.30	23.90	11000	17000	K24X28X17	0.0130
24	29	13	12.30	16.90	11000	17000	K24X29X13	0.0120
24	30	17	18.40	25.20	11000	17000	K24X30X17	0.0220
24	30	31	27.90	43.00	11000	17000	K24X30X31ZW	0.0390
25	29	10	8.95	13.30	11000	16000	K25X29X10	0.0083
25	29	13	10.80	16.90	11000	16000	K25X29X13	0.0100
25	29	17	14.20	24.00	11000	16000	K25X29X17	0.0140
25	30	13	13.20	18.80	11000	16000	K25X30X13	0.0130
25	30	17	17.40	26.80	11000	16000	K25X30X17	0.0170
25	30	20	19.40	31.00	11000	16000	K25X30X20	0.0210
25	30	22	22.30	37.00	11000	16000	K25X30X21.8	0.0200
25	30	26	36.50	71.50	11000	16000	K25X30X26ZW	0.0270
25	30	39	29.80	53.50	11000	16000	K25X30X39ZW	0.0400
25	31	13	15.20	19.90	11000	16000	K25X31X13	0.0180
25	31	14	16.50	22.10	11000	16000	K25X31X14	0.0180
25	31	17	18.30	25.30	11000	16000	K25X31X17	0.0220
25	31	18.5	21.00	30.00	11000	16000	K25X31X18.3	0.0210
25	31	21	22.50	33.00	11000	16000	K25X31X21	0.0283
25	32	16	19.50	24.70	11000	16000	K25X32X16	0.0270
25	33	24	34.50	47.00	11000	16000	K25X33X24	0.040
26	30	13	11.80	19.20	10000	15000	K26X30X13	0.011
26	30	17	15.50	27.40	10000	15000	K26X30X17	0.015
26	31	24	21.40	35.50	10000	15000	K26X31X23.8ZW	0.029

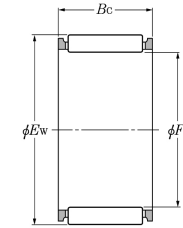
Boundary Dimensions			Basic Load Rating		Limiting Speed		Bearing Deignation	Mass Approx
(mm)			(KN)		(rpm)			(kg)
F _w	E _w	B _c	Cr	Cor	Grease	Oil		
26	34	22	24.20	30.00	10000	15000	K26X34X22	0.041
28	32	17	15.30	27.50	9500	14000	K28X32X17	0.017
28	32	21	18.70	35.50	9500	14000	K28X32X21	0.020
28	33	13	13.90	20.90	9500	14000	K28X33X13	0.015
28	33	17	18.30	29.80	9500	14000	K28X33X17	0.020
28	33	26	23.90	42.00	9500	14000	K28X33X26ZW	0.033
28	33	27	28.30	52.00	9500	14000	K28X33X27	0.032
28	34	14	17.50	24.80	9500	14000	K28X34X14	0.020
28	34	17	18.10	25.80	9500	14000	K28X34X17	0.025
28	35	16	21.20	28.40	9500	14000	K28X35X16	0.029
28	35	18	21.50	28.90	9500	14000	K28X35X18	0.031
29	34	17	18.90	31.00	9500	14000	K29X34X17	0.022
29	34	27	28.10	52.00	9500	14000	K29X34X27	0.033
30	34	14	12.40	21.50	8500	13000	K30X34X13.8	0.014
30	34	23	18.00	34.50	8500	13000	K30X34X22.8	0.013
30	35	11	12.20	18.00	8500	13000	K30X35X11	0.014
30	35	13	14.70	22.90	8500	13000	K30X35X13	0.017
30	35	17	18.80	31.50	8500	13000	K30X35X17	0.021
30	35	20	21.60	37.50	8500	13000	K30X35X20	0.025
30	35	26	25.20	46.00	8500	13000	K30X35X26ZW	0.036
30	35	27	29.90	57.00	8500	13000	K30X35X27	0.033
30	36	14	18.60	27.40	8500	13000	K30X36X14	0.021
30	37	16	21.90	30.50	8500	13000	K30X37X16	0.029
30	37	18	23.30	33.00	8500	13000	K30X37X18	0.034
30	37	20	26.20	38.00	8500	13000	K30X37X20	0.032
30	37	48	40.00	65.50	8500	13000	K30X37X48ZW	0.075
30	38	18	25.00	33.00	8500	13000	K30X38X18	0.036
31	35	24	21.20	43.50	8500	13000	K31X35X23.8	0.022
31	36	14	15.80	25.40	8500	13000	K31X36X13.8	0.017
32	36	15	14.30	26.40	8500	13000	K32X36X15	0.017



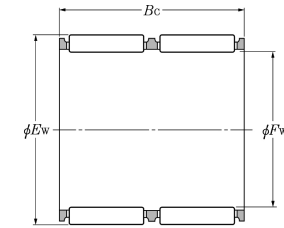
Type K



Type K · ZW



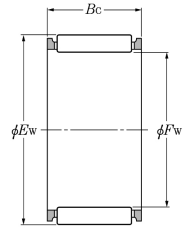
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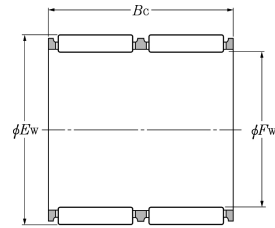
Type K · ZW

Boundary Dimensions			Basic Load Rating		Limiting Speed		Bearing Deignation	Mass Approx
(mm)			(KN)		(rpm)			(kg)
F _w	E _w	B _c	Cr	Cor	Grease	Oil		
32	37	13	14.50	23.00	8500	13000	K32X37X13	0.018
32	37	17	19.20	33.00	8500	13000	K32X37X17	0.022
32	37	24	22.90	41.50	8500	13000	K32X37X24.8	0.018
32	37	26	24.90	46.00	8500	13000	K32X37X26ZW	0.032
32	37	27	29.60	57.50	8500	13000	K32X37X27	0.037
32	38	14	19.80	30.50	8500	13000	K32X38X14	0.022
32	38	20	25.10	41.00	8500	13000	K32X38X20	0.031
32	38	26	31.50	54.00	8500	13000	K32X38X26	0.041
32	39	16	22.60	32.00	8500	13000	K32X39X16	0.033
32	39	18	24.00	35.00	8500	13000	K32X39X18	0.037
32	39	20	26.80	40.00	8500	13000	K32X39X20	0.041
33	38	30.5	28.40	55.00	8000	12000	K33X38X30.3	0.026
34	40	39.5	39.00	73.50	8000	12000	K34X40X39.3ZW	0.066
35	39	22.5	21.50	46.00	7500	11000	K35X39X22.3	0.024
35	39	24	21.30	45.00	7500	11000	K35X39X23.8	0.015
35	40	13	15.20	25.10	7500	11000	K35X40X13	0.019
35	40	17	20.00	36.00	7500	11000	K35X40X17	0.025
35	40	19	22.30	41.00	7500	11000	K35X40X19	0.029
35	40	26	44.00	100.00	7500	11000	K35X40X26ZW	0.037
35	40	27	32.00	65.00	7500	11000	K35X40X27	0.039
35	40	30	26.10	50.00	7500	11000	K35X40X30ZW	0.043
35	41	14	19.40	30.50	7500	11000	K35X41X14	0.026
35	41	15	20.90	33.50	7500	11000	K35X41X15	0.027
35	41	24	31.00	55.50	7500	11000	K35X41X23.8	0.042
35	41	40	72.00	168.00	7500	11000	K35X41X40ZW	0.055
35	42	16	24.10	36.00	7500	11000	K35X42X16	0.035
35	42	18	24.70	37.00	7500	11000	K35X42X18	0.039
35	42	20	26.50	40.50	7500	11000	K35X42X20	0.040
35	42	30	39.50	68.00	7500	11000	K35X42X30	0.062
35	42	45	42.50	74.00	7500	11000	K35X42X45ZW	0.106

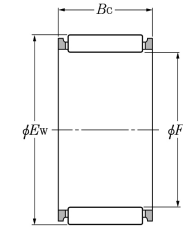
Boundary Dimensions			Basic Load Rating		Limiting Speed		Bearing Deignation	Mass Approx
(mm)			(KN)		(rpm)			(kg)
F _w	E _w	B _c	Cr	Cor	Grease	Oil		
36	42	46	51.00	106.00	7500	11000	K36X42X46ZW	0.086
37	42	13	15.90	27.10	7500	11000	K37X42X13	0.021
37	42	17	21.00	38.50	7500	11000	K37X42X17	0.026
37	42	27	32.50	67.50	7500	11000	K37X42X27	0.041
37	43	33.5	39.00	76.00	7500	11000	K37X43X33.3	0.062
37	44	18	26.30	41.00	7500	11000	K37X44X18	0.042
37	45	25	37.00	58.00	7500	11000	K37X45X24.8	0.039
38	43	17	20.90	38.50	7500	11000	K38X43X17	0.027
38	43	27	32.00	67.50	7500	11000	K38X43X27	0.043
38	43	29	32.50	68.00	7500	11000	K38X43X28.8	0.047
38	46	20	34.00	52.00	7500	11000	K38X46X20	0.046
38	46	32	54.00	95.50	7500	11000	K38X46X32	0.073
40	45	13	16.50	29.20	6500	10000	K40X45X13	0.023
40	45	17	21.80	41.50	6500	10000	K40X45X17	0.027
40	45	21	26.70	54.00	6500	10000	K40X45X21	0.035
40	45	27	33.50	72.50	6500	10000	K40X45X27	0.044
40	46	17	24.60	43.00	6500	10000	K40X46X17	0.030
40	46	34	40.50	80.50	6500	10000	K40X46X33.8	0.063
40	47	18	27.70	45.00	6500	10000	K40X47X18	0.045
40	47	20	31.00	51.50	6500	10000	K40X47X20	0.048
40	48	20	33.00	51.00	6500	10000	K40X48X20	0.052
40	48	25	41.00	68.00	6500	10000	K40X48X25	0.065
41	49	22	30.50	46.00	6500	9500	K41X49X21.8	0.065
42	47	17	22.10	43.00	6500	9500	K42X47X17	0.028
42	47	27	34.00	75.50	6500	9500	K42X47X27	0.047
42	48	17	25.70	46.00	6500	9500	K42X48X17	0.360
42	50	20	34.00	53.50	6500	9500	K42X50X20	0.054
43	48	17	22.00	43.00	6500	9500	K43X48X17	0.029
43	48	27	34.00	75.50	6500	9500	K43X48X27	0.046
43	48	38	41.00	96.00	6500	9500	K43X48X37.8ZW	0.058



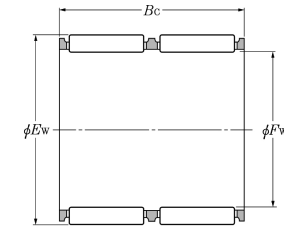
Type K



Type K · ZW



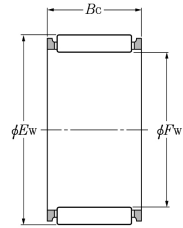
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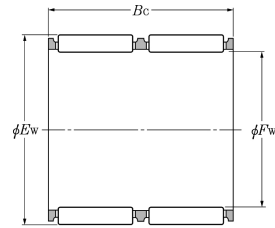
Type K · ZW

Boundary Dimensions			Basic Load Rating		Limiting Speed		Bearing Deignation	Mass Approx
(mm)			(KN)		(rpm)			(kg)
F _w	E _w	B _c	Cr	Cor	Grease	Oil		
43	50	18	29.10	49.00	6500	9500	K43X50X18	0.049
44	50	31	43.50	91.50	6500	9500	K44X50X30.8	0.067
45	49	19	22.10	52.00	6000	9000	K45X49X19	0.027
45	50	17	22.30	44.50	6000	9000	K45X50X17	0.033
45	50	25.8	30.50	66.50	6000	9000	K45X50X25.8	0.045
45	50	27	34.50	78.00	6000	9000	K45X50X27	0.050
45	51	27	34.50	68.00	6000	9000	K45X51X26.8	0.058
45	52	18	29.70	51.00	6000	9000	K45X52X18	0.051
45	52	21	32.00	56.50	6000	9000	K45X52X21	0.061
45	53	20	36.00	59.00	6000	9000	K45X53X20	0.062
45	53	25	46.50	82.00	6000	9000	K45X53X25	0.077
45	53	28	49.50	90.00	6000	9000	K45X53X28	0.078
47	52	15.5	19.40	38.00	5500	8500	K47X52X15.3	0.031
47	52	17	23.20	47.50	5500	8500	K47X52X17	0.033
47	52	23	29.60	65.50	5500	8500	K47X52X22.8	0.044
47	52	24	33.50	76.50	5500	8500	K47X52X23.8	0.044
47	52	27	35.50	83.00	5500	8500	K47X52X27	0.051
47	52	33	38.00	90.50	5500	8500	K47X52X32.8ZW	0.064
48	53	22.5	31.00	69.50	5500	8500	K48X53X22.3	0.042
48	53	26	36.50	86.50	5500	8500	K48X53X25.8	0.029
48	53	30	36.50	85.50	5500	8500	K48X53X29.8	0.062
48	53	37	45.00	112.00	5500	8500	K48X53X36.8ZW	0.064
48	53	37.5	41.50	101.00	5500	8500	K48X53X37.5ZW	0.072
48	54	19	31.00	61.00	5500	8500	K48X54X19	0.044
48	55	24.5	39.00	73.50	5500	8500	K48X55X24.3	0.070
50	55	13.5	18.10	35.50	5500	8000	K50X55X13.5	0.023
50	55	20	27.90	62.00	5500	8000	K50X55X20	0.040
50	55	27	37.00	88.50	5500	8000	K50X55X27	0.053
50	55	30	39.50	97.00	5500	8000	K50X55X30	0.059
50	57	18	31.50	57.00	5500	8000	K50X57X18	0.053

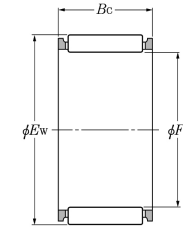
Boundary Dimensions			Basic Load Rating		Limiting Speed		Bearing Deignation	Mass Approx
(mm)			(KN)		(rpm)			(kg)
F _w	E _w	B _c	Cr	Cor	Grease	Oil		
50	58	20	38.50	67.50	5500	8000	K50X58X20	0.065
50	58	25	48.50	90.00	5500	8000	K50X58X25	0.081
50	58	58	83.50	181.00	5500	8000	K50X58X57.8ZW	0.188
52	57	18	22.80	48.00	5000	7500	K52X57X17.8	0.037
52	57	23	30.50	69.50	5000	7500	K52X57X22.8	0.048
52	58	19	32.00	65.50	5000	7500	K52X58X19	0.048
54	59	23	31.50	73.50	5000	7500	K54X59X22.8	0.049
55	60	17	25.80	58.00	5000	7500	K55X60X17	0.043
55	60	20	28.80	66.50	5000	7500	K55X60X20	0.045
55	60	30	42.00	108.00	5000	7500	K55X60X30	0.069
55	60	37	47.50	127.00	5000	7500	K55X60X36.8	0.086
55	61	19	33.00	69.50	5000	7500	K55X61X19	0.051
55	61	20	33.00	69.50	5000	7500	K55X61X20	0.054
55	61	30	48.00	113.00	5000	7500	K55X61X30	0.081
55	62	18	33.50	63.00	5000	7500	K55X62X18	0.054
55	63	20	39.00	70.00	5000	7500	K55X63X20	0.073
55	63	25	50.50	97.50	5000	7500	K55X63X25	0.088
55	63	32	61.00	125.00	5000	7500	K55X63X32	0.117
56	66	41	90.00	178.00	5000	7500	K56X66X40.8	0.148
57	65	40	66.00	140.00	4700	7000	K57X65X39.8ZW	0.145
58	64	19	34.00	73.50	4700	7000	K58X64X19	0.052
60	65	20	29.80	71.50	4300	6500	K60X65X20	0.051
60	65	27	40.00	104.00	4300	6500	K60X65X26.8	0.067
60	65	30	43.50	116.00	4300	6500	K60X65X30	0.071
60	66	19	33.50	73.50	4300	6500	K60X66X19	0.053
60	66	20	33.50	73.50	4300	6500	K60X66X20	0.056
60	66	30	49.00	119.00	4300	6500	K60X66X30	0.084
60	68	15	27.20	45.50	4300	6500	K60X68X15	0.058
60	68	20	40.00	75.00	4300	6500	K60X68X20	0.077
60	68	23	44.50	85.00	4300	6500	K60X68X23	0.092



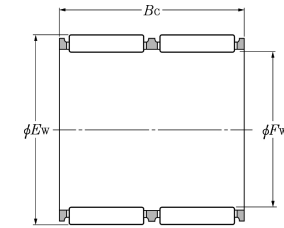
Type K



Type K · ZW



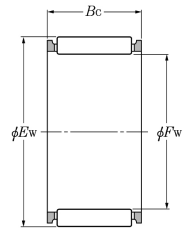
Type K



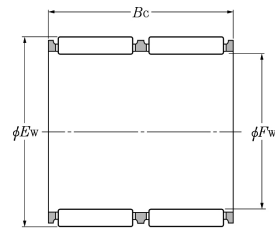
Type K · ZW

Boundary Dimensions			Basic Load Rating		Limiting Speed		Bearing Deignation	Mass Approx
(mm)			(KN)		(rpm)			(kg)
F _w	E _w	B _c	Cr	Cor	Grease	Oil		
60	68	25	52.00	105.00	4300	6500	K60X68X25	0.097
60	68	27	52.00	105.00	4300	6500	K60X68X27	0.098
60	68	30	46.50	91.00	4300	6500	K60X68X30ZW	0.119
61	66	20	29.70	71.50	4300	6500	K61X66X20	0.054
61	66	30	43.50	116.00	4300	6500	K61X66X30	0.073
63	70	21	44.50	95.50	4300	6500	K63X70X21	0.075
63	71	50.5	74.50	167.00	4300	6500	K63X71X50.3ZW	0.193
64	70	16	28.40	60.50	4300	6500	K64X70X16	0.053
65	70	20	30.50	75.00	4000	6000	K65X70X20	0.055
65	70	21.5	30.50	75.00	4000	6000	K65X70X21.3	0.056
65	70	30	45.00	124.00	4000	6000	K65X70X30	0.083
65	73	23	47.00	94.00	4000	6000	K65X73X23	0.100
65	73	30	61.00	132.00	4000	6000	K65X73X30	0.126
68	74	20	36.00	83.50	4000	6000	K68X74X20	0.065
68	74	30	51.50	133.00	4000	6000	K68X74X30	0.097
68	74	35	49.50	125.00	4000	6000	K68X74X35ZW	0.116
68	75	21	45.50	101.00	4000	6000	K68X75X21	0.077
70	76	20	36.50	86.00	3700	5500	K70X76X20	0.070
70	76	30	53.00	139.00	3 700	5 500	K70X76X30	0.100
70	77	21	45.00	101.00	3 700	5 500	K70X77X21	0.080
70	78	23	49.50	103.00	3700	5500	K70X78X23	0.107
70	78	30	65.50	149.00	3700	5500	K70X78X30	0.136
72	79	21	46.50	106.00	3700	5500	K72X79X21	0.085
73	79	20	37.50	90.00	3700	5500	K73X79X20	0.074
73	79	30	54.50	146.00	3700	5500	K73X79X30	0.106
74	90	50	157.00	287.00	3700	5500	K74X90X49.8	0.380
75	81	20	40.00	99.50	3700	5500	K75X81X19.8	0.071
75	81	30	56.00	152.00	3700	5500	K75X81X30	0.108
75	82	21	46.00	106.00	3700	5500	K75X82X21	0.088
75	83	23	50.50	109.00	3700	5500	K75X83X23	0.113

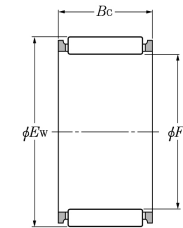
Boundary Dimensions			Basic Load Rating		Limiting Speed		Bearing Deignation	Mass Approx
(mm)			(KN)		(rpm)			(kg)
F _w	E _w	B _c	Cr	Cor	Grease	Oil		
75	83	30	67.50	157.00	3700	5500	K75X83X30	0.147
80	86	20	39.00	98.00	3300	5000	K80X86X20	0.077
80	86	30	57.00	159.00	3300	5000	K80X86X30	0.110
80	88	23	53.00	118.00	3300	5000	K80X88X23	0.125
80	88	26	61.00	142.00	3300	5000	K80X88X26	0.131
80	88	30	69.00	166.00	3300	5000	K80X88X30	0.157
85	92	20	47.50	115.00	3100	4700	K85X92X20	0.083
85	92	30	66.00	176.00	3100	4700	K85X92X30	0.142
85	93	27	64.00	153.00	3100	4700	K85X93X27	0.145
85	93	30	71.00	175.00	3100	4700	K85X93X30	0.174
90	97	20	46.00	113.00	2900	4400	K90X97X20	0.103
90	97	30	67.50	184.00	2900	4400	K90X97X30	0.151
90	98	26	64.00	157.00	2 900	4 400	K90X98X26	0.148
90	98	27	64.00	157.00	2900	4400	K90X98X27	0.150
90	98	30	72.50	184.00	2900	4400	K90X98X30	0.172
95	102	21	48.00	122.00	2800	4200	K95X102X21	0.115
95	102	31	70.50	199.00	2800	4200	K95X102X31	0.172
95	103	27	65.50	165.00	2800	4200	K95X103X27	0.159
95	103	30	74.00	193.00	2800	4200	K95X103X30	0.165
100	107	21	47.50	122.00	2700	4000	K100X107X21	0.120
100	107	31	71.50	207.00	2700	4000	K100X107X31	0.173
100	108	27	61.00	153.00	2700	4000	K100X108X27	0.176
100	108	30	76.00	201.00	2700	4000	K100X108X30	0.190
105	112	21	48.50	127.00	2 500	3 800	K105X112X21	0.130
105	112	31	71.00	207.00	2 500	3 800	K105X112X31	0.176
105	113	30	77.50	210.00	2500	3800	K105X113X30	0.198
110	117	24	54.50	149.00	2400	3600	K110X117X24	0.145
110	117	34	77.50	235.00	2400	3600	K110X117X34	0.205
110	118	30	79.00	219.00	2400	3600	K110X118X30	0.217
115	123	27	64.00	170.00	2300	3500	K115X123X27	0.200



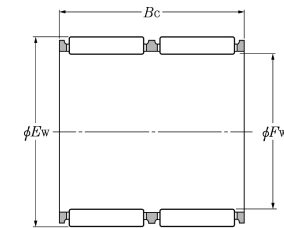
Type K



Type K · ZW



Type K



Type K · ZW

Boundary Dimensions			Basic Load Rating		Limiting Speed		Bearing Deignation	Mass Approx
(mm)			(KN)		(rpm)			(kg)
F _w	E _w	B _c	Cr	Cor	Grease	Oil		
115	125	34	95.00	241.00	2300	3500	K115X125X34	0.330
120	127	24	57.50	165.00	2200	3300	K120X127X24	0.160
120	127	34	82.00	260.00	2200	3300	K120X127X34	0.235
125	133	35	87.00	260.00	2100	3200	K125X133X35	0.275
125	135	34	100.00	265.00	2100	3200	K125X135X34	0.350
130	137	24	59.00	175.00	2100	3100	K130X137X24	0.170
130	137	34	84.50	277.00	2100	3100	K130X137X34	0.240
135	143	35	92.50	288.00	2000	3000	K135X143X35	0.313
135	150	38	145.00	325.00	2000	3000	K135X150X38	0.590
145	153	26	72.00	214.00	1900	2800	K145X153X26	0.250
145	153	28	80.50	247.00	1900	2800	K145X153X28	0.252
145	153	36	100.00	325.00	1900	2800	K145X153X36	0.335
150	160	46	149.00	470.00	1800	2700	K150X160X46	0.550
155	163	26	73.50	224.00	1700	2600	K155X163X26	0.270
155	163	36	102.00	340.00	1700	2600	K155X163X36	0.355
160	170	46	155.00	505.00	1700	2500	K160X170X46	0.570
165	173	26	79.00	251.00	1600	2400	K165X173X26	0.290
165	173	32	97.00	330.00	1600	2400	K165X173X32	0.340
165	173	36	109.00	380.00	1600	2400	K165X173X36	0.375
170	180	46	160.00	540.00	1600	2400	K170X180X46	0.620
175	183	32	101.00	350.00	1500	2300	K175X183X32	0.379
185	195	37	131.00	425.00	1500	2200	K185X195X37	0.581
195	205	37	135.00	450.00	1400	2100	K195X205X37	0.620
210	220	42	156.00	560.00	1300	1900	K210X220X42	0.740
220	230	42	161.00	590.00	1200	1800	K220X230X42	0.790
240	250	42	167.00	635.00	1100	1700	K240X250X42	0.849
265	280	50	256.00	850.00	1000	1500	K265X280X50	1.768
285	300	50	268.00	930.00	950	1400	K285X300X50	1.970