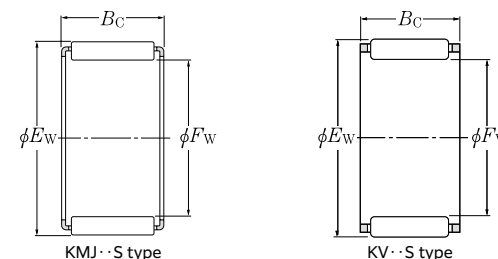
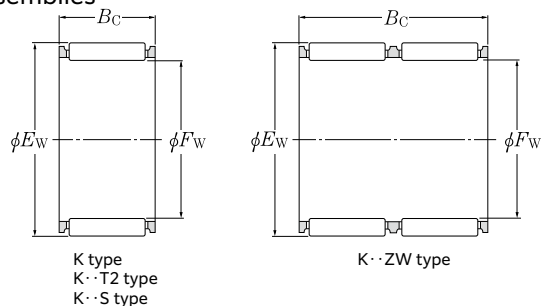


Needle roller and cage assemblies

- K type
- K·T2 type
- K·S type
- K·ZW type
- KMJ·S type
- KV·S type



F_w 3 ~ 10mm

Boundary dimensions	Basic load rating		Fatigue load limit	Allowable speed		Number	Mass
	mm	dynamic		static	min ⁻¹		
F_w E_w B_c	C_r	C_{0r}	C_u	Grease lubrication	Oil lubrication		(approx.)
3 6 7 $_{-0.55}^{-0.2}$	1 460	970	118	33 000	50 000	K3×6×7T2T	0.0004
4 6 8 $_{-0.55}^{-0.2}$	1 560	1 330	162	30 000	45 000	K4×6×7.8XT2	0.0003
	1 770	1 270	155	30 000	45 000	K4×7×7T2	0.0005
5 8 8 $_{-0.55}^{-0.2}$	2 640	2 190	267	27 000	40 000	K5×8×8T2	0.0007
	2 720	2 250	275	27 000	40 000	K5×8×10T2	0.0009
6 9 8 $_{-0.55}^{-0.2}$	2 660	2 280	278	25 000	37 000	K6×9×8T2T	0.0009
	3 400	3 150	380	25 000	37 000	K6×9×10T2T	0.0011
	4 400	3 700	455	25 000	37 000	K6×10×13T2	0.0019
7 10 8 $_{-0.55}^{-0.2}$	2 670	2 350	286	23 000	34 000	K7×10×8T2	0.0009
	3 400	3 200	390	23 000	34 000	K7×10×10T2	0.0011
	5 050	5 400	655	23 000	34 000	KV7×10×12.8X3S	0.0023
8 11 8 $_{-0.55}^{-0.2}$	3 150	3 000	365	21 000	32 000	K8×11×8T2T	0.0011
	3 150	3 000	365	21 000	32 000	8E-KV8×11×8.8X2S	0.0019
	4 000	4 100	500	21 000	32 000	K8×11×10T2	0.0013
	4 450	4 650	570	21 000	32 000	8E-KV8×11×11.8X2S	0.0025
	4 850	5 200	635	21 000	32 000	K8×11×13	0.0026
	4 650	4 150	510	21 000	32 000	K8×12×10T2	0.0020
	5 600	5 300	650	21 000	32 000	8E-KV8×12×11.8X1S	0.0040
	5 050	4 650	565	21 000	32 000	K8×12×13	0.0036
9 12 10 $_{-0.55}^{-0.2}$	4 550	5 000	615	20 000	30 000	K9×12×10T2	0.0015
	5 500	6 400	780	20 000	30 000	K9×12×13T2	0.0021
10 13 10 $_{-0.55}^{-0.2}$	4 550	5 100	620	19 000	28 000	K10×13×10T2T	0.0016
	5 450	6 450	790	19 000	28 000	8E-KV10×13×12.8XS	0.0032
	4 300	3 950	485	19 000	28 000	K10×14×8	0.0027
	5 500	5 450	660	19 000	28 000	K10×14×10T	0.0034
	5 500	5 450	660	19 000	28 000	8E-KV10×14×10.8XS	0.0039
	6 800	7 200	875	19 000	28 000	KMJ10×14×11.3XS	0.0040
	6 600	6 900	840	19 000	28 000	K10×14×13	0.0044
7 150	7 650	930	19 000	28 000	8E-KV10×14×13.8X4S	0.0050	

Note: Bearings may be delivered with a different cage type even if they are ordered by the bearing numbers in the table.

F_w 10 ~ 15mm

Boundary dimensions	Basic load rating		Fatigue load limit	Allowable speed		Number	Mass
	mm	dynamic		static	min ⁻¹		
F_w E_w B_c	C_r	C_{0r}	C_u	Grease lubrication	Oil lubrication		(approx.)
10 14 17 $_{-0.55}^{-0.2}$	8 050	8 850	1 080	19 000	28 000	8E-K10×14×16.8X1	0.0064
	7 100	5 950	730	19 000	28 000	K10×16×12	0.0066
11 14 10 $_{-0.55}^{-0.2}$	5 050	6 000	735	18 000	27 000	K11×14×10	0.0028
12 15 9 $_{-0.55}^{-0.2}$	4 450	5 250	640	17 000	26 000	K12×15×9	0.0027
	5 000	6 100	740	17 000	26 000	8Q-K12×15×10	0.0030
	6 000	7 700	940	17 000	26 000	K12×15×13	0.0038
	8 550	12 200	1 480	17 000	26 000	K12×15×20ZW	0.0059
	4 850	4 900	600	17 000	26 000	K12×16×8	0.0034
	6 750	7 400	900	17 000	26 000	KMJ12×16×11.3XS	0.0047
	7 500	8 500	1 040	17 000	26 000	8Q-K12×16×13	0.0060
	9 800	11 900	1 460	17 000	26 000	8E-K12×16×17.8X1	0.0070
	10 300	12 800	1 560	17 000	26 000	K12×16×19.8X4	0.010
	7 350	7 200	880	17 000	26 000	KMJ12×17×9.8XS	0.0050
14 17 10 $_{-0.55}^{-0.2}$	9 000	9 400	1 150	17 000	26 000	K12×17×13	0.0075
	12 600	14 400	1 760	17 000	26 000	KV12×17×17.8XS	0.0080
	8 650	8 000	975	17 000	26 000	8Q-K12×18×12	0.0089
	5 400	7 050	860	16 000	24 000	KV14×17×10ST	0.0040
	6 900	8 000	975	16 000	24 000	K14×18×10	0.0046
	7 600	9 050	1 100	16 000	24 000	K14×18×11	0.0053
	8 300	10 100	1 240	16 000	24 000	K14×18×13	0.0063
	9 650	12 300	1 500	16 000	24 000	K14×18×15S	0.0076
	10 900	14 400	1 760	16 000	24 000	K14×18×17V5	0.0079
	18 800	28 900	3 500	16 000	24 000	K14×18×39ZW	0.018
15 18 14 $_{-0.55}^{-0.2}$	8 950	9 650	1 180	16 000	24 000	K14×19×13	0.0080
	9 350	9 150	1 110	16 000	24 000	K14×20×12	0.0095
	13 500	14 600	1 780	16 000	24 000	K14×20×17	0.014
	7 850	11 600	1 420	15 000	23 000	K15×18×14	0.0060
	5 350	5 850	715	15 000	23 000	KV15×19×7.8XS	0.0033
	6 850	8 050	980	15 000	23 000	K15×19×10T	0.0055
	8 250	10 200	1 250	15 000	23 000	K15×19×13	0.0067

Note: Bearings may be delivered with a different cage type even if they are ordered by the bearing numbers in the table.