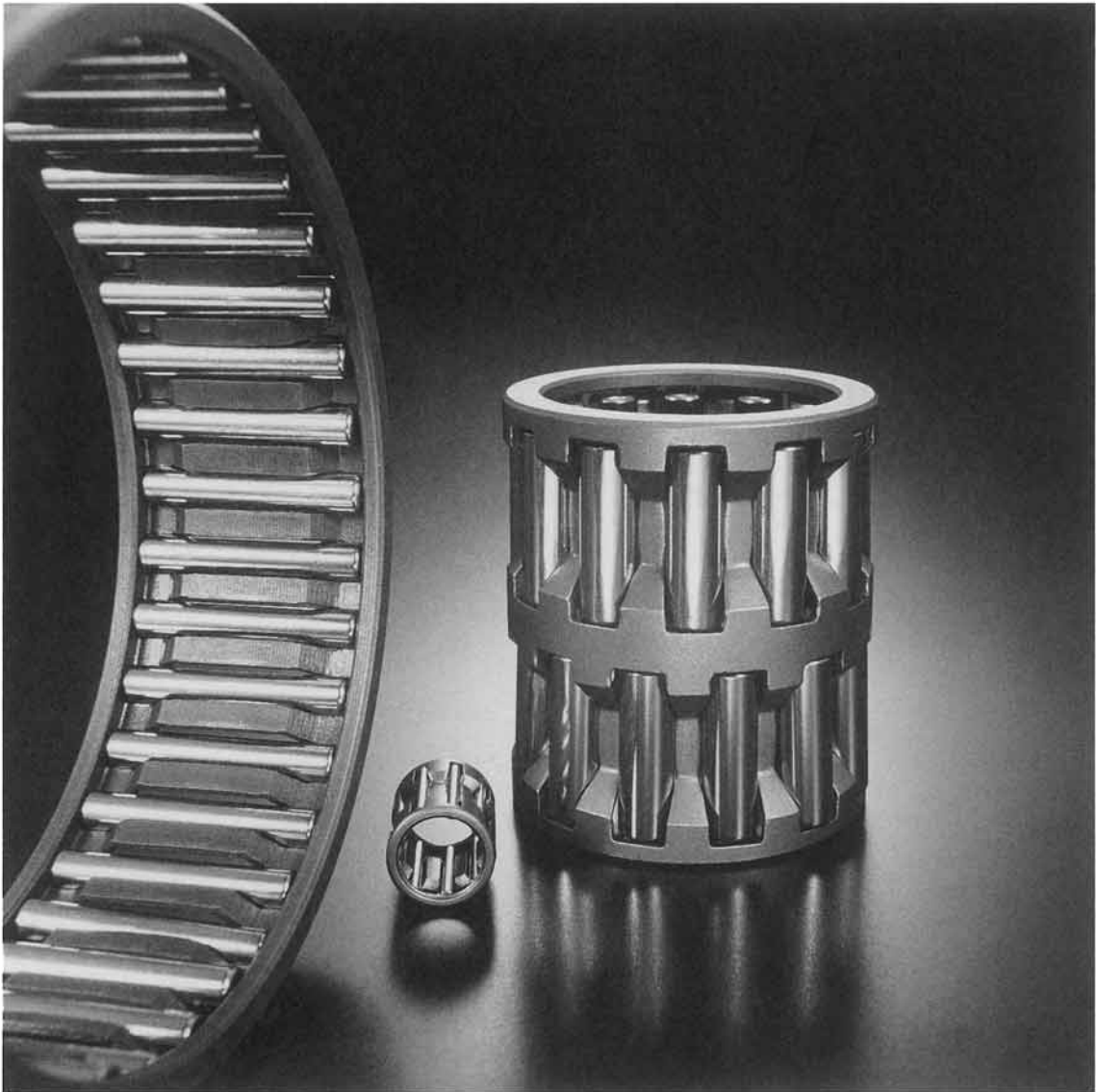


# NEEDLE ROLLER CAGES FOR GENERAL USAGE



# Needle Roller Cages for General Usage

# KT

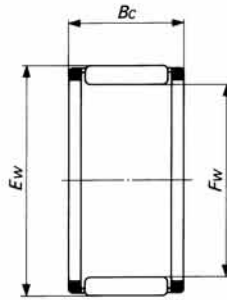
Shaft dia. 3-15 mm



Shaft dia. mm	Identification number	Weight (Ref.) g	Boundary dimensions mm			Basic dynamic load rating <i>C</i> kgf	Basic static load rating <i>C</i> <sub>0</sub> kgf	Allowable rotational speed <sup>(1)</sup> rpm
			<i>F</i> <sub>w</sub>	<i>E</i> <sub>w</sub>	<i>B</i> <sub>c</sub>			
<b>3</b>	KT 367N	0.39	3	6	7	150	100	140 000
<b>4</b>	KT 477N	0.47	4	7	7	180	130	100 000
<b>5</b>	KT 587N	0.53	5	8	7	190	140	85 000
	KT 588N	0.66	5	8	8	250	200	85 000
<b>6</b>	KT 697N	0.63	6	9	7	240	190	75 000
	KT 698N	0.75	6	9	8	280	240	75 000
	KT 6910	1.45	6	9	10	310	270	75 000
	KT 61013	2.7	6	10	13	450	380	75 000
<b>7</b>	KT 7108N	0.86	7	10	8	300	270	65 000
	KT 71010	1.69	7	10	10	340	320	65 000
<b>8</b>	KT 8118N	0.96	8	11	8	320	310	60 000
	KT 81110	1.9	8	11	10	370	370	60 000
	KT 81113	2.5	8	11	13	460	480	60 000
	KT 8128	2.1	8	12	8	370	310	60 000
	KT 81211	3	8	12	11	470	420	60 000
<b>9</b>	KT 91210	2.1	9	12	10	400	420	55 000
	KT 91213	2.8	9	12	13	490	550	55 000
<b>10</b>	KT 10138	1.9	10	13	8	340	350	50 000
	KT 101310	2.3	10	13	10	420	460	50 000
	KT 101313	3	10	13	13	530	610	50 000
	KT 101410	3.2	10	14	10	500	480	50 000
	KT 101412	3.8	10	14	12	610	610	50 000
	KT 101413	4.2	10	14	13	620	630	50 000
	KT 101415	4.8	10	14	15	720	770	50 000
<b>11</b>	KT 111410	2.5	11	14	10	450	510	45 000

**Note** <sup>(1)</sup>: Allowable rotational speed applies to oil lubrication. For grease lubrication, a maximum of 50% of this value is allowable.

**Remark**: For synthetic resin cages, an "N" is added at the end of the identification number. In this case, the maximum allowable temperature is +120°C, but it is restricted to +100°C for continuous operation.



KT

Shaft dia. mm	Identification number	Weight (Ref.) g	Boundary dimensions mm			Basic dynamic load rating	Basic static load rating	Allowable rotational speed (1) rpm
			$F_w$	$E_w$	$B_c$	$C$ kgf	$C_o$ kgf	
<b>12</b>	KT 12158	2.2	12	15	8	380	430	40 000
	KT 121510	2.7	12	15	10	470	560	40 000
	KT 121512	3.2	12	15	12	570	720	40 000
	KT 121513	3.6	12	15	13	580	740	40 000
	KT 121514	3.8	12	15	14	630	820	40 000
	KT 121610	4	12	16	10	580	600	40 000
	KT 121613	5.2	12	16	13	720	800	40 000
	KT 121618	7	12	16	18	1 000	1 220	40 000
	KT 121710	5.1	12	17	10	630	580	40 000
	KT 121812	7.8	12	18	12	920	860	40 000
KT 121820	13.2	12	18	20	1 400	1 470	40 000	
<b>13</b>	KT 131710	4.3	13	17	10	610	660	40 000
	KT 131815	8.2	13	18	15	990	1 060	40 000
	KT 131816	8.7	13	18	16	1 050	1 160	40 000
<b>14</b>	KT 14188	3.7	14	18	8	520	550	35 000
	KT 141810	4.6	14	18	10	640	720	35 000
	KT 141811	5.2	14	18	11	670	760	35 000
	KT 141813	6	14	18	13	800	960	35 000
	KT 141816	7.3	14	18	16	990	1 270	35 000
	KT 141910	5.9	14	19	10	730	730	35 000
	KT 141916	9.4	14	19	16	1 130	1 290	35 000
	KT 141918	10.5	14	19	18	1 270	1 500	35 000
	KT 142012	8.7	14	20	12	1 000	990	35 000
KT 142017	12.4	14	20	17	1 360	1 470	35 000	
<b>15</b>	KT 15199	4.4	15	19	9	620	710	35 000
	KT 151910	4.9	15	19	10	680	790	35 000
	KT 151911	5.5	15	19	11	700	820	35 000
	KT 151913	6.4	15	19	13	840	1 040	35 000
	KT 151917	8.2	15	19	17	1 110	1 480	35 000
	KT 151918	8.7	15	19	18	1 170	1 600	35 000
	KT 152010	6.3	15	20	10	770	810	35 000
	KT 152115	11.9	15	21	15	1 280	1 380	35 000

1 kgf = 9.807N = 2.2046 lbs.  
1 mm = 0.03937 inch

# Needle Roller Cages for General Usage

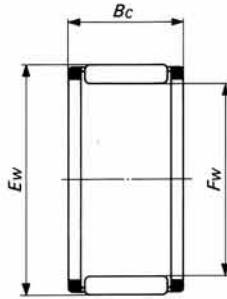
## KT, KTW

Shaft dia. 16~22mm

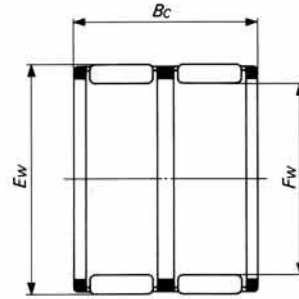


Shaft dia. mm	Identification number	Weight (Ref.) g	Boundary dimensions mm			Basic dynamic load rating C kgf	Basic static load rating C <sub>0</sub> kgf	Allowable rotational speed (1) rpm
			F <sub>w</sub>	E <sub>w</sub>	B <sub>c</sub>			
16	KT 162010	5.2	16	20	10	710	850	30 000
	KT 162013	6.8	16	20	13	880	1 120	30 000
	KT 162016	8.3	16	20	16	1 090	1 480	30 000
	KT 162017	8.7	16	20	17	1 160	1 600	30 000
	KT 162118	12	16	21	18	1 420	1 810	30 000
	KT 162120	13.6	16	21	20	1 500	1 930	30 000
	KT 162125	16.6	16	21	25	1 870	2 560	30 000
	KT 162212	9.7	16	22	12	1 070	1 110	30 000
	KT 162214	11.5	16	22	14	1 190	1 270	30 000
	KT 162217	13.8	16	22	17	1 450	1 640	30 000
	KT 162220	16.5	16	22	20	1 620	1 890	30 000
KT 162420	23.5	16	24	20	1 880	1 940	30 000	
17	KT 172110	5.5	17	21	10	740	910	30 000
	KT 172113	7.2	17	21	13	920	1 210	30 000
	KT 172115	8.2	17	21	15	1 060	1 470	30 000
	KT 172117	9.3	17	21	17	1 210	1 720	30 000
	KT 172220	14	17	22	20	1 580	2 100	30 000
	KT 172311	9.6	17	23	11	1 030	1 070	30 000
	KT 172315	13.1	17	23	15	1 360	1 540	30 000
	KT 172418	18.6	17	24	18	1 680	1 840	30 000
18	KT 18228	4.7	18	22	8	620	740	30 000
	KT 182210	5.8	18	22	10	760	970	30 000
	KT 182213	7.6	18	22	13	950	1 290	30 000
	KT 182216	9.2	18	22	16	1 180	1 700	30 000
	KT 182412	11	18	24	12	1 200	1 330	30 000
	KT 182416	14.8	18	24	16	1 540	1 830	30 000
	KT 182417	15.7	18	24	17	1 630	1 980	30 000
	KT 182420	18.7	18	24	20	1 820	2 280	30 000
	KT 182517	18.8	18	25	17	1 710	1 890	30 000
	KT 182519	21	18	25	19	1 900	2 180	30 000
	KT 182522	24.5	18	25	22	2 100	2 470	30 000
	KT 182614	18.1	18	26	14	1 490	1 470	30 000
	KT 182620	26	18	26	20	2 040	2 200	30 000

Note (1): Allowable rotational speed applies to oil lubrication. For grease lubrication, a maximum of 50% of this value is allowable.



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KTW

Shaft dia. mm	Identification number	Weight (Ref.) g	Boundary dimensions mm			Basic dynamic load rating C kgf	Basic static load rating C <sub>0</sub> kgf	Allowable rotational speed (1) rpm
			F <sub>w</sub>	E <sub>w</sub>	B <sub>c</sub>			
20	KT 202410	6.3	20	24	10	790	1 040	25 000
	KT 202413	8.3	20	24	13	980	1 380	25 000
	KT 202417	10.6	20	24	17	1 290	1 970	25 000
	KTW 202422	14.6	20	24	22	1 390	2 170	25 000
	KT 202525	19.7	20	25	25	2 030	3 040	25 000
	KTW 202531.6	26.5	20	25	31.6	2 210	3 380	25 000
	KTW 202540	32.5	20	25	40	2 800	4 580	25 000
	KT 202611	11.1	20	26	11	1 140	1 280	25 000
	KT 202612	12	20	26	12	1 260	1 460	25 000
	KT 202614	14.2	20	26	14	1 400	1 670	25 000
	KT 202617	17	20	26	17	1 710	2 170	25 000
	KT 202620	20.5	20	26	20	1 910	2 490	25 000
	KT 202624	24	20	26	24	2 290	3 150	25 000
	KT 202627	26.5	20	26	27	2 660	3 810	25 000
	KT 202814	20	20	28	14	1 600	1 650	25 000
KT 202820	29	20	28	20	2 190	2 470	25 000	
KT 203225	49.5	20	32	25	3 140	3 110	25 000	
21	KT 212610	8.5	21	26	10	930	1 120	25 000
	KT 212611	9.6	21	26	11	960	1 170	25 000
22	KT 222610	6.9	22	26	10	840	1 170	25 000
	KT 222613	9.1	22	26	13	1 040	1 550	25 000
	KT 222617	11.6	22	26	17	1 370	2 200	25 000
	KTW 222625	17.7	22	26	25	1 740	2 990	25 000
	KT 222720	17.9	22	27	20	1 770	2 620	25 000
	KT 222726	22.5	22	27	26	2 290	3 650	25 000
	KT 222817	18.4	22	28	17	1 790	2 340	25 000
	KT 222912	16.1	22	29	12	1 310	1 430	25 000
	KT 222916	21	22	29	16	1 790	2 130	25 000
	KT 222917	22.5	22	29	17	1 910	2 310	25 000
	KT 222918	23.5	22	29	18	2 020	2 490	25 000
	KT 222920	26.5	22	29	20	2 130	2 660	25 000
	KT 223015	23.5	22	30	15	1 830	2 000	25 000
	KT 223230	52.5	22	32	30	3 710	4 360	25 000
	KT 223232	56	22	32	32	3 950	4 720	25 000

1 kgf = 9.807N = 2.2046 lbs.  
1 mm = 0.03937 inch

# Needle Roller Cages for General Usage

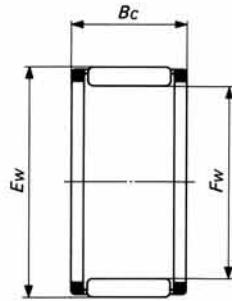
## KT, KTW

Shaft dia. 23~35mm

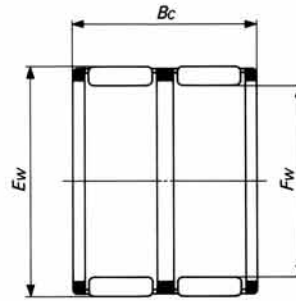


Shaft dia. mm	Identification number	Weight (Ref.) g	Boundary dimensions mm			Basic dynamic load rating C kgf	Basic static load rating C <sub>0</sub> kgf	Allowable rotational speed (1) rpm
			F <sub>w</sub>	E <sub>w</sub>	B <sub>c</sub>			
23	KT 232824	22	23	28	24	2 200	3 520	20 000
	KT 232913	15.1	23	29	13	1 410	1 750	20 000
	KT 233015	21	23	30	15	1 770	2 120	20 000
	KT 233016	22	23	30	16	1 890	2 310	20 000
24	KT 242813	9.9	24	28	13	1 100	1 710	20 000
	KT 242816	12	24	28	16	1 370	2 260	20 000
	KTW 242834	27	24	28	34	2 200	4 150	20 000
	KT 242913	12.8	24	29	13	1 290	1 800	20 000
	KT 243020	23.5	24	30	20	2 070	2 910	20 000
25	KT 252910	7.9	25	29	10	910	1 360	20 000
	KT 252913	10.3	25	29	13	1 130	1 790	20 000
	KT 253013	13.3	25	30	13	1 330	1 900	20 000
	KT 253016	16.2	25	30	16	1 660	2 510	20 000
	KT 253017	17.1	25	30	17	1 760	2 710	20 000
	KT 253020	20	25	30	20	1 890	2 960	20 000
	KT 253113	16.2	25	31	13	1 460	1 880	20 000
	KT 253116	19.6	25	31	16	1 820	2 490	20 000
	KT 253117	20.5	25	31	17	1 930	2 700	20 000
	KT 253120	25	25	31	20	2 160	3 110	20 000
	KT 253216	23.5	25	32	16	1 980	2 500	20 000
	KT 253224	35	25	32	24	2 820	3 950	20 000
	KT 253515	33	25	35	15	2 300	2 430	20 000
	KT 253525	48	25	35	25	3 320	3 870	20 000
KT 253530	58	25	35	30	3 980	4 900	20 000	
26	KT 263013	10.7	26	30	13	1 160	1 880	19 000
	KT 263832	79.5	26	38	32	4 810	5 640	19 000
28	KT 283313	14.8	28	33	13	1 410	2 110	18 000
	KT 283317	18.9	28	33	17	1 860	3 010	18 000
	KT 283327	29	28	33	27	2 690	4 820	18 000
	KT 283417	23	28	34	17	2 070	3 050	18 000
	KT 283516	26	28	35	16	2 050	2 700	18 000
	KT 283528	44.5	28	35	28	3 390	5 160	18 000
	KT 283620	38.5	28	36	20	2 700	3 530	18 000
	KT 284138	110	28	41	38	5 980	7 240	18 000

Note (1): Allowable rotational speed applies to oil lubrication. For grease lubrication, a maximum of 50% of this value is allowable.



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KTW

Shaft dia. mm	Identification number	Weight (Ref.) g	Boundary dimensions mm			Basic dynamic load rating C kgf	Basic static load rating Co kgf	Allowable rotational speed (1) rpm
			Fw	Ew	Bc			
30	KT 303513	15.6	30	35	13	1 440	2 210	17 000
	KT 303516	18.9	30	35	16	1 790	2 930	17 000
	KT 303517	20	30	35	17	1 900	3 170	17 000
	KT 303524	28.5	30	35	24	2 540	4 590	17 000
	KT 303527	31.5	30	35	27	2 840	5 310	17 000
	KT 303613	19.1	30	36	13	1 610	2 250	17 000
	KT 303620	29.5	30	36	20	2 380	3 720	17 000
	KT 303630	41.5	30	36	30	3 390	5 860	17 000
	KT 303715	26	30	37	15	1 990	2 650	17 000
	KT 303716	27.5	30	37	16	2 120	2 890	17 000
	KT 303720	35	30	37	20	2 520	3 610	17 000
	KT 303723	39.5	30	37	23	2 900	4 330	17 000
	KT 303818	36.5	30	38	18	2 670	3 550	17 000
	KT 303824	48.5	30	38	24	3 390	4 810	17 000
KT 304232	93	30	42	32	5 510	6 950	17 000	
KTW 304237	117	30	42	37	5 710	7 280	17 000	
32	KT 323713	16.7	32	37	13	1 510	2 420	16 000
	KT 323717	21.5	32	37	17	2 000	3 460	16 000
	KT 323723	28.5	32	37	23	2 480	4 570	16 000
	KT 323813	20.5	32	38	13	1 710	2 490	16 000
	KT 323820	31.5	32	38	20	2 530	4 110	16 000
	KT 323916	29	32	39	16	2 200	3 080	16 000
	KT 323920	37	32	39	20	2 610	3 840	16 000
	KT 324519	63.5	32	45	19	3 440	3 670	16 000
	KT 324525	84.5	32	45	25	4 650	5 410	16 000
	KT 324532	109	32	45	32	5 960	7 450	16 000
	KT 324550	162	32	45	50	8 310	11 400	16 000
35	KT 354013	18.1	35	40	13	1 580	2 630	14 000
	KT 354017	23	35	40	17	2 090	3 760	14 000
	KT 354026	34.5	35	40	26	2 930	5 800	14 000
	KT 354113	22.5	35	41	13	1 800	2 740	14 000
	KT 354216	32	35	42	16	2 350	3 450	14 000
	KT 354218	35.5	35	42	18	2 650	4 030	14 000
	KT 354220	40.5	35	42	20	2 790	4 310	14 000
	KT 354230	59	35	42	30	4 150	7 170	14 000
KT 354525	68.5	35	45	25	4 290	5 900	14 000	

1 kgf = 9.807N = 2.2046 lbs.  
1 mm = 0.03937 inch

# Needle Roller Cages for General Usage

# KT, KTW

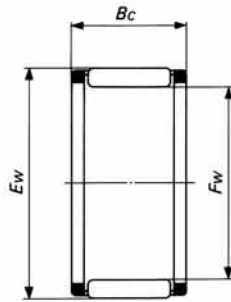
Shaft dia. 36-72mm



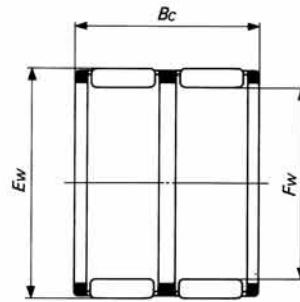
Shaft dia. mm	Identification number	Weight (Ref.) g	Boundary dimensions mm			Basic dynamic load rating C kgf	Basic static load rating C <sub>0</sub> kgf	Allowable rotational speed (1) rpm
			F <sub>w</sub>	E <sub>w</sub>	B <sub>c</sub>			
<b>36</b>	KT 364216	27.5	36	42	16	2 230	3 640	14 000
<b>38</b>	KT 384417	30.5	38	44	17	2 430	4 120	13 000
	KT 384620	50	38	46	20	3 110	4 630	13 000
	KT 384632	80	38	46	32	4 620	7 710	13 000
<b>40</b>	KT 404513	20.5	40	45	13	1 710	3 040	12 000
	KT 404517	26.5	40	45	17	2 260	4 350	12 000
	KT 404527	41	40	45	27	3 300	7 060	12 000
	KT 404817	44	40	48	17	2 870	4 240	12 000
	KT 404820	52.5	40	48	20	3 210	4 890	12 000
	KT 404825	64.5	40	48	25	4 010	6 530	12 000
	KT 404834	87.5	40	48	34	5 210	9 140	12 000
	KT 405015	48.5	40	50	15	2 880	3 660	12 000
	KT 405017	56.5	40	50	17	3 080	4 000	12 000
	KT 405020	61	40	50	20	3 640	4 950	12 000
	KTW 405238	158	40	52	38	6 620	9 490	12 000
	KT 405432	144	40	54	32	6 820	8 880	12 000
	KT 405450	215	40	54	50	9 540	13 600	12 000
KT 405463	270	40	54	63	11 700	17 800	12 000	
<b>41</b>	KT 414835	78.5	41	48	35	4 880	9 250	12 000
<b>42</b>	KT 424717	27.5	42	47	17	2 290	4 500	12 000
	KT 424815	30	42	48	15	2 280	3 940	12 000
	KT 424816	32	42	48	16	2 440	4 290	12 000
	KT 425020	55	42	50	20	3 300	5 170	12 000
	KT 425030	80.5	42	50	30	4 910	8 610	12 000
<b>45</b>	KT 455017	29.5	45	50	17	2 370	4 810	11 000
	KT 455027	46	45	50	27	3 550	8 060	11 000
	KT 455320	58	45	53	20	3 390	5 440	11 000
	KT 455325	71.5	45	53	25	4 240	7 250	11 000
	KT 455330	86	45	53	30	4 880	8 700	11 000
	KT 455335	101	45	53	35	5 500	10 200	11 000
	KT 455527	90.5	45	55	27	5 140	7 980	11 000
<b>48</b>	KT 485320	37	48	53	20	2 730	5 870	10 000
	KT 485420	46	48	54	20	3 130	6 160	10 000

Note (1): Allowable rotational speed applies to oil lubrication. For grease lubrication, a maximum of 50% of this value is allowable.





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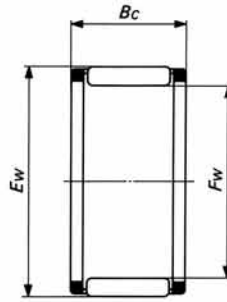
KTW

Shaft dia. mm	Identification number	Weight (Ref.) g	Boundary dimensions mm			Basic dynamic load rating C kgf	Basic static load rating C <sub>0</sub> kgf	Allowable rotational speed (!) rpm
			F <sub>w</sub>	E <sub>w</sub>	B <sub>c</sub>			
<b>50</b>	KT 505520	38.5	50	55	20	2 760	6 050	10 000
	KT 505527	50.5	50	55	27	3 630	8 580	10 000
	KT 505820	65	50	58	20	3 660	6 230	10 000
	KT 505825	80	50	58	25	4 580	8 300	10 000
	KT 505830	96.5	50	58	30	5 270	9 960	10 000
	KT 505835	113	50	58	35	5 940	11 600	10 000
<b>52</b>	KT 525817	41	52	58	17	2 890	5 710	9 500
	KT 526024	80	52	60	24	4 490	8 240	9 500
<b>55</b>	KT 556020	42.5	55	60	20	2 910	6 730	9 000
	KT 556027	55.5	55	60	27	3 840	9 570	9 000
	KT 556120	52	55	61	20	3 330	6 980	9 000
	KT 556315	52.5	55	63	15	3 000	4 970	9 000
	KT 556320	71	55	63	20	3 810	6 770	9 000
	KT 556325	87	55	63	25	4 770	9 030	9 000
<b>58</b>	KT 586320	44.5	58	63	20	2 990	7 080	8 500
	KT 586420	54.5	58	64	20	3 420	7 390	8 500
<b>60</b>	KT 606520	45.5	60	65	20	3 020	7 240	8 500
	KT 606820	76.5	60	68	20	3 970	7 310	8 500
	KT 606825	94	60	68	25	4 960	9 750	8 500
	KT 606827	101	60	68	27	5 340	10 700	8 500
	KT 607236	205	60	72	36	8 850	15 500	8 500
<b>63</b>	KT 637120	79.5	63	71	20	4 030	7 600	8 000
<b>65</b>	KT 657320	83.5	65	73	20	4 200	8 110	7 500
	KT 657330	124	65	73	30	6 050	13 000	7 500
<b>68</b>	KT 687620	86.5	68	76	20	4 270	8 380	7 500
<b>70</b>	KT 707820	89	70	78	20	4 330	8 650	7 000
	KT 707830	132	70	78	30	6 240	13 800	7 000
<b>72</b>	KT 728020	91.5	72	80	20	4 410	8 930	7 000

# Needle Roller Cages for General Usage

# KT

Shaft dia. 75-100mm



KT

Shaft dia. mm	Identification number	Weight (Ref.) g	Boundary dimensions mm			Basic dynamic load rating C kgf	Basic static load rating C <sub>0</sub> kgf	Allowable rotational speed (1) rpm
			F <sub>w</sub>	E <sub>w</sub>	B <sub>c</sub>			
<b>75</b>	KT 758320	94.5	75	83	20	4 470	9 210	6 500
	KT 758325	116	75	83	25	5 590	12 300	6 500
	KT 758330	141	75	83	30	6 440	14 700	6 500
	KT 758335	164	75	83	35	7 260	17 200	6 500
<b>80</b>	KT 808822	110	80	88	22	5 070	11 000	6 000
	KT 808825	123	80	88	25	5 750	13 000	6 000
	KT 808830	149	80	88	30	6 620	15 600	6 000
<b>85</b>	KT 859112	44.5	85	91	12	2 570	5 790	6 000
	KT 859325	130	85	93	25	5 890	13 700	6 000
	KT 859330	157	85	93	30	6 790	16 400	6 000
<b>90</b>	KT 909825	138	90	98	25	6 160	14 800	5 500
	KT 909830	167	90	98	30	7 090	17 700	5 500
<b>95</b>	KT 9510330	175	95	103	30	7 230	18 600	5 500
<b>100</b>	KT 10010830	184	100	108	30	7 400	19 500	4 500

Note (1): Allowable rotational speed applies to oil lubrication. For grease lubrication, a maximum of 50% of this value is allowable.

1 kgf = 9.807N = 2.2046 lbs.  
1 mm = 0.03937 inch

