



# WJB Drawn Cup Needle Roller Bearing Nomenclature

**HK**



- HK - Caged, with open ends
- BK - Caged, with open ends
- F - Full complement, with open ends
- FH - Full complement, with open ends (Heavy series)
- FY - Full complement, grease retained, with open ends
- MF - Full complement, with open ends
- MFH - Full complement, with open ends (Heavy series)
- MFY - Full complement, grease retained, with open ends
- SCE - Caged, with open ends
- BCE - Caged, with open ends
- SCH - Caged, with open ends (Heavy series)
- BCH - Caged, with closed ends (Heavy series)
- SN - Full complement, grease retained with open ends
- B - Full complement, with open ends
- BH - Full complement, with open ends (Heavy series)
- M - Full complement, with closed ends
- MH - Full complement, with closed ends (Heavy series)
- HF, HFL - Drawn cup needle clutches (metric)
- RC, RCB - Drawn cup needle clutches (inch)

**20**



Fw

**20**



Width

**2RS**



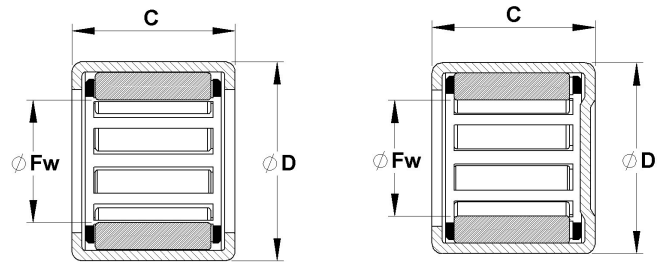
- RS - 1 seal, with metric series
- 2RS - 2 seals, with metric series
- P - 1 seal, with inch series
- PP - 2 seals, with inch series
- OH - Oil hole

# Drawn Cup Needle Roller Bearings

## CAGE GUIDED BEARING SERIES



- Steel Drawn Cup Outer
- Inch and Metric Series
- Open End for Through Shafts
- Closed End for Shaft Ends
- Steel Cage or Nylon Cage (TN)



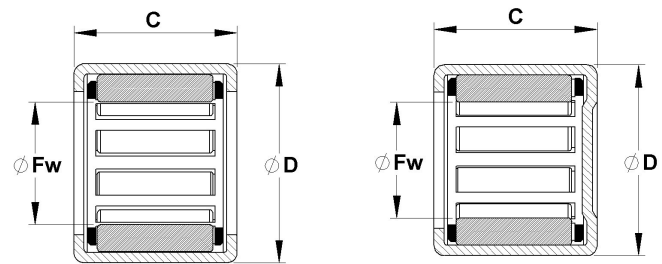
Part Number Open End	Part Number Close End	Shaft F <sub>w</sub>		OD D		Width C		Weight		Dynamic Cap. C		Static Cap. C <sub>0</sub>		Speed Limit rpm
		Inch	mm	Inch	mm	Inch	mm	lb	g	lbf	N	lbf	N	
HK 0306 TN	BK 0306 TN	0.118	3	0.256	6.500	0.236	6	0.002	1	275	1,230	189	840	46,000
SCE24TN	BCE24TN	0.125	3.175	0.250	6.350	0.250	6.350	0.003	1	240	1,070	165	740	31,500
SCE2-1/2-4		0.156	3.969	0.281	7.145	0.250	6.350	0.003	1	285	1,260	211	940	25,000
SCE2-1/2-4TN		0.156	3.969	0.281	7.145	0.250	6.350	0.003	1	275	1,230	204	910	25,000
HK 0408	BK 0408	0.157	4	0.315	8	0.315	8	0.004	2	400	1,780	295	1,310	41,000
SCE34TN	BCE34TN	0.187	4.762	0.344	8.731	0.250	6.350	0.003	1	400	1,790	305	1,360	21,000
SCE36TN	BCE36TN	0.187	4.762	0.344	8.731	0.375	9.525	0.004	2	620	2,750	530	2,350	21,000
SCE36		0.187	4.762	0.344	8.731	0.375	9.530	0.004	2	630	2,800	550	2,440	21,000
HK 0509	BK 0509	0.197	5	0.354	9	0.354	9	0.004	2	540	2,400	445	1,990	38,000
HK 0608		0.236	6	0.394	10	0.315	8	0.005	2	455	2,030	370	1,650	35,000
HK 0609	BK 0609	0.236	6	0.394	10	0.354	9	0.006	3	640	2,850	590	2,600	35,000
SCE44	BCE44	0.250	6.35	0.437	11.112	0.250	6.350	0.005	2	360	1,600	260	1,200	44,000
SCE45	BCE45	0.250	6.35	0.437	11.112	0.313	7.938	0.006	3	570	2,500	470	2,090	44,000
SCE47	BCE47	0.250	6.35	0.437	11.112	0.437	11.112	0.009	4	920	4,000	870	3,850	44,000
HK 0709	BK 0709	0.276	7	0.433	11	0.354	9	0.006	3	700	3,100	660	2,950	31,000
SCE55	BCE55	0.313	7.938	0.500	12.700	0.313	7.938	0.008	4	650	2,900	590	2,600	35,500
SCE57	BCE57	0.313	7.938	0.500	12.700	0.437	11.112	0.013	6	1,060	4,700	1,090	4,850	35,500
SCE59	BCE59	0.313	7.938	0.500	12.700	0.563	14.288	0.014	6	1,340	6,000	1,480	6,600	35,500
SCH57	BCH57	0.313	7.938	0.563	14.288	0.437	11.112	0.015	7	1,070	4,750	930	4,100	35,500
HK 0808	BK 0808	0.315	8	0.472	12	0.315	8	0.006	3	620	2,750	590	2,600	28,000
HK 0810	BK 0810	0.315	8	0.472	12	0.394	10	0.007	3	850	3,800	890	3,950	28,000
HK 0908		0.354	9	0.512	13	0.315	8	0.007	3	870	3,850	930	4,150	25,000
HK 0910	BK 0910	0.354	9	0.512	13	0.394	10	0.009	4	960	4,250	1,050	4,650	25,000
HK 0912	BK 0912	0.354	9	0.512	13	0.472	12	0.010	5	1,190	5,300	1,420	6,300	25,000

# Drawn Cup Needle Roller Bearings

## CAGE GUIDED BEARING SERIES



- Steel Drawn Cup Outer
- Inch and Metric Series
- Open End for Through Shafts
- Closed End for Shaft Ends
- Steel Cage or Nylon Cage (TN)



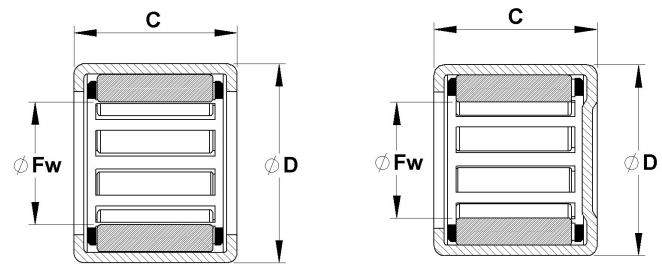
Part Number Open End	Part Number Close End	Shaft F <sub>w</sub>		OD D		Width C		Weight		Dynamic Cap. C		Static Cap. C <sub>0</sub>		Speed Limit rpm
		Inch	mm	Inch	mm	Inch	mm	lb	g	lbf	N	lbf	N	
SCE65	BCE65	0.375	9.525	0.563	14.288	0.313	7.938	0.007	3	650	2,900	610	2,700	29,500
SCE66	BCE66	0.375	9.525	0.563	14.288	0.375	9.525	0.009	4	870	3,900	890	3,950	29,500
SCE67	BCE67	0.375	9.525	0.563	14.288	0.437	11.112	0.011	5	980	4,350	1,030	4,600	29,500
SCE68	BCE68	0.375	9.525	0.563	14.288	0.500	12.700	0.013	6	1,300	5,800	1,490	6,600	29,500
SCE610	BCE610	0.375	9.525	0.563	14.288	0.625	15.875	0.015	7	1,660	7,400	2,040	9,000	29,500
SCH68	BCH68	0.375	9.525	0.625	15.875	0.500	12.700	0.020	9	1,590	7,100	1,590	7,100	29,500
HK 1010	BK 1010	0.394	10	0.551	14	0.394	10	0.009	4	990	4,400	1,150	5,100	23,000
HK 1012	BK 1012	0.394	10	0.551	14	0.472	12	0.011	5	1,240	5,500	1,530	6,800	23,000
HK 1015	BK1015	0.394	10	0.551	14	0.591	15	0.013	6	1,530	6,800	1,980	8,800	23,000
SCE78	BCE78	0.437	11.112	0.625	15.875	0.500	12.700	0.016	7	1,430	6,400	1,760	7,800	25,000
SCE710		0.437	11.112	0.625	15.875	0.625	15.875	0.020	9	1,830	8,100	2,400	10,700	25,000
SCH78	BCH78	0.438	11.112	0.688	17.462	0.500	12.700	0.020	9	1,760	7,900	1,840	8,200	25,000
HK 1210	BK 1210	0.472	12	0.630	16	0.394	10	0.010	5	1,110	4,950	1,390	6,200	20,000
HK 1212	BK 1212	0.472	12	0.709	18	0.472	12	0.020	9	1,460	6,500	1,640	7,300	19,000
SCE85	BCE85	0.500	12.700	0.687	17.462	0.313	7.938	0.009	4	820	3,650	890	3,950	22,000
SCE86	BCE86	0.500	12.700	0.687	17.462	0.375	9.525	0.011	5	1,040	4,600	1,210	5,400	22,000
SCE87	BCE87	0.500	12.700	0.687	17.462	0.437	11.112	0.013	6	1,330	5,900	1,660	7,400	22,000
SCE88	BCE88	0.500	12.700	0.687	17.462	0.500	12.700	0.016	7	1,550	6,900	2,030	9,000	22,000
SCE810	BCE810	0.500	12.700	0.687	17.462	0.625	15.875	0.021	9	1,980	8,800	2,750	12,300	22,000
SCE812	BCE812	0.500	12.700	0.687	17.462	0.750	19.050	0.025	11	2,230	9,900	3,200	14,300	22,000
SCH87	BCH87	0.500	12.700	0.750	19.050	0.438	11.112	0.020	9	1,650	7,340	1,760	7,800	22,000
SCH88	BCH88	0.500	12.700	0.750	19.050	0.500	12.700	0.022	10	1,910	8,500	2,120	9,400	22,000
SCH810	BCH810	0.500	12.700	0.750	19.050	0.625	15.875	0.022	10	2,360	10,500	2,800	12,400	22,000
SCH812	BCH812	0.500	12.700	0.750	19.050	0.750	19.050	0.035	16	2,850	12,600	3,500	15,700	22,000
HK 1312	BK 1312	0.512	13	0.748	19	0.472	12	0.022	10	1,530	6,800	1,780	7,900	18,000
HK 1412	BK 1412	0.551	14	0.787	20	0.472	12	0.023	11	1,600	7,100	1,910	8,500	16,000

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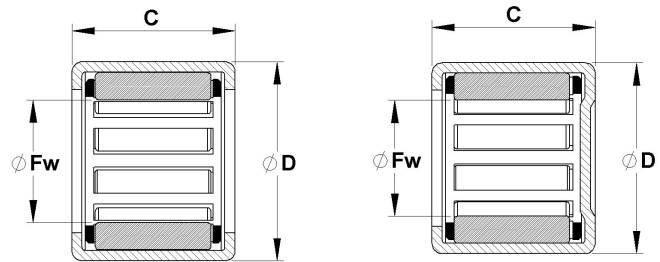
Part Number Open End	Part Number Close End	Shaft F <sub>w</sub>		OD D		Width C		Weight		Dynamic Cap. C		Static Cap. C <sub>0</sub>		Speed Limit
		Inch	mm	Inch	mm	Inch	mm	lb	g	lbf	N	lbf	N	
SCE95		0.563	14.288	0.750	19.050	0.313	7.938	0.010	5	910	4,000	1,060	4,700	19,600
SCE96	BCE96	0.563	14.288	0.750	19.050	0.375	9.525	0.013	6	1,160	5,200	1,440	6,400	19,600
SCE97		0.563	14.288	0.750	19.050	0.438	11.130	0.019	8	1,480	6,600	1,980	8,800	19,600
SCE98	BCE98	0.563	14.288	0.750	19.050	0.500	12.700	0.020	9	1,730	7,700	2,420	10,800	19,600
SCE910	BCE910	0.563	14.288	0.750	19.050	0.625	15.875	0.022	10	2,120	9,600	3,150	14,000	19,600
SCE912	BCE912	0.563	14.288	0.750	19.050	0.750	19.050	0.026	12	2,410	10,700	3,700	16,400	19,600
SCH98	BCH98	0.563	14.288	0.813	20.638	0.500	12.700	0.026	12	2,050	9,100	2,380	10,600	19,600
SCH910	BCH910	0.563	14.288	0.813	20.638	0.625	15.875	0.028	13	2,700	12,000	3,350	15,000	19,600
SCH912	BCH912	0.563	14.288	0.813	20.638	0.750	19.050	0.037	17	3,250	14,400	4,300	19,000	19,600
HK 1512	BK 1512	0.591	15	0.827	21	0.472	12	0.024	11	1,780	7,900	2,110	9,400	16,000
HK 1516	BK 1516	0.591	15	0.827	21	0.630	16	0.033	15	2,360	10,500	3,250	14,400	16,000
HK 1522	BK 1522	0.591	15	0.827	21	0.866	22	0.044	20	3,000	13,400	4,400	19,500	16,000
SCE105	BCE105	0.625	15.875	0.813	20.638	0.313	7.938	0.012	5	970	4,300	1,180	5,200	17,600
SCE107	BCE107	0.625	15.875	0.813	20.638	0.437	11.112	0.017	8	1,480	6,600	2,100	9,300	17,600
SCE107-1/2	BCE107-1/2	0.625	15.875	0.813	20.638	0.469	11.910	0.018	8	1,600	7,100	2,320	10,300	17,600
SCE108	BCE108	0.625	15.875	0.813	20.638	0.500	12.700	0.020	9	1,830	8,100	2,700	12,000	17,600
SCE1010	BCE1010	0.625	15.875	0.813	20.638	0.625	15.875	0.025	11	2,330	10,400	3,650	16,300	17,600
SCE1012	BCE1012	0.625	15.875	0.813	20.638	0.750	19.050	0.031	14	2,700	12,100	4,450	19,700	17,600
SCH108	BCH108	0.625	15.875	0.875	22.225	0.500	12.700	0.028	13	2,250	10,000	2,750	12,200	17,600
SCH1010	BCH1010	0.625	15.875	0.875	22.225	0.625	15.875	0.035	16	2,850	12,700	3,750	16,700	17,600
SCH1012	BCH1012	0.625	15.875	0.875	22.225	0.750	19.050	0.042	19	3,300	14,700	4,500	20,000	17,600
SCH1016	BCH1016	0.625	15.875	0.875	22.225	1.000	25.400	0.055	25	4,300	19,100	6,300	28,000	17,600
HK 1612	BK 1612	0.630	16	0.866	22	0.472	12	0.026	12	1,710	7,600	2,180	9,700	15,000
HK 1616	BK 1616	0.630	16	0.866	22	0.630	16	0.035	16	2,450	10,900	3,450	15,300	15,000
HK 1622	BK 1622	0.630	16	0.866	22	0.866	22	0.049	22	2,950	13,100	4,350	19,400	15,000
HK 1712	BK 1712	0.669	17	0.906	23	0.472	12	0.026	12	1,780	7,900	2,320	10,300	14,000

# Drawn Cup Needle Roller Bearings

## CAGE GUIDED BEARING SERIES



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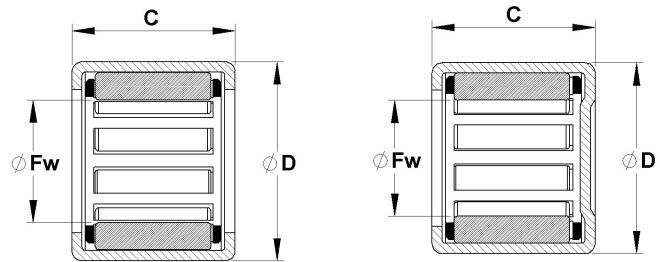
Part Number Open End	Part Number Close End	Shaft F <sub>w</sub>		OD D		Width C		Weight		Dynamic Cap. C		Static Cap. C <sub>0</sub>		Speed Limit rpm
		Inch	mm	Inch	mm	Inch	mm	lb	g	lbf	N	lbf	N	
SCE116		0.687	17.462	0.875	22.225	0.375	9.525	0.014	6	1,290	5,700	1,770	7,900	16,000
SCE118	BCE118	0.687	17.462	0.875	22.225	0.500	12.700	0.021	10	1,930	8,600	2,950	13,200	16,000
SCE1110	BCE1110	0.687	17.462	0.875	22.225	0.625	15.875	0.028	13	2,460	10,900	4,050	18,000	16,000
SCE1112	BCE1112	0.687	17.462	0.875	22.225	0.750	19.050	0.035	16	2,800	12,400	4,750	21,000	16,000
SCH117	BCH117	0.688	17.462	0.938	23.812	0.437	11.112	0.029	13	1,900	8,400	2,260	10,000	16,000
SCH1110	BCH1110	0.688	17.462	0.938	23.812	0.625	15.875	0.037	17	2,900	12,900	3,850	17,100	16,000
SCH1112	BCH1112	0.688	17.462	0.938	23.812	0.750	19.050	0.045	20	3,550	15,900	5,100	22,700	16,000
HK 1812	BK 1812	0.709	18	0.945	24	0.472	12	0.029	13	1,820	8,100	2,450	10,900	13,000
HK 1816	BK 1816	0.709	18	0.945	24	0.630	16	0.040	18	2,600	11,600	3,900	17,300	13,000
SCE126	BCE126	0.750	19.050	1.000	25.4	0.375	9.525	0.022	10	1,600	7,100	1,860	8,300	14,700
SCE128	BCE128	0.750	19.050	1.000	25.4	0.500	12.700	0.031	14	2,210	9,800	2,800	12,500	14,700
SCE1210	BCE1210	0.750	19.050	1.000	25.4	0.625	15.875	0.040	18	2,850	12,800	3,950	17,500	14,700
SCE1212	BCE1212	0.750	19.050	1.000	25.4	0.750	19.050	0.046	21	3,450	15,300	5,000	22,100	14,700
SCH1212	BCH1212	0.750	19.050	1.063	26.988	0.750	19.050	0.060	27	4,150	18,500	5,300	23,600	14,700
HK 2010		0.787	20	1.024	26	0.394	10	0.026	12	1,440	6,400	1,840	8,200	12,000
HK 2012	BK 2012	0.787	20	1.024	26	0.472	12	0.031	14	1,930	8,600	2,700	12,100	12,000
HK 2016	BK 2016	0.787	20	1.024	26	0.630	16	0.042	19	2,850	12,700	4,500	20,100	12,000
HK 2020	BK 2020	0.787	20	1.024	26	0.787	20	0.053	24	3,550	15,700	5,800	26,000	12,000
HK 2030	BK 2030	0.787	20	1.024	26	1.181	30	0.077	35	4,900	21,800	9,000	40,000	12,000
SCE136		0.813	20.638	1.063	26.988	0.375	9.525	0.031	14	1,590	7,100	1,880	8,400	13,600
SCE138	BCE138	0.813	20.638	1.063	26.988	0.500	12.700	0.035	16	2,420	10,800	3,200	14,300	13,600
SCE1312	BCE1312	0.813	20.638	1.063	26.988	0.750	19.050	0.053	24	3,600	15,900	5,300	23,700	13,600
SCE1314		0.813	20.638	1.063	26.988	0.875	22.225	0.060	27	4,150	18,500	6,500	29,000	13,600
SCH1310	BCH1310	0.813	20.638	1.125	28.575	0.625	15.875	0.055	25	3,550	15,900	4,650	20,700	13,600
SCH1312	BCH1312	0.813	20.638	1.125	28.575	0.750	19.050	0.066	30	4,350	19,200	6,000	26,500	13,600

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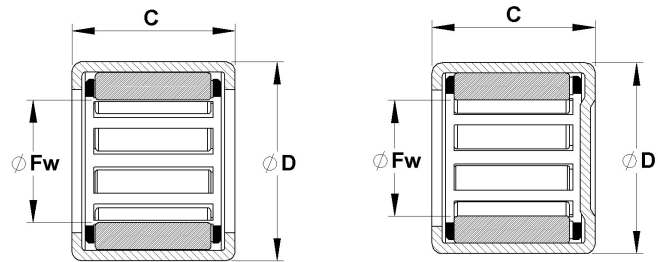
Part Number Open End	Part Number Close End	Shaft F <sub>w</sub>		OD D		Width C		Weight		Dynamic Cap. C		Static Cap. C <sub>o</sub>		Speed Limit
		Inch	mm	Inch	mm	Inch	mm	lb	g	lbf	N	lbf	N	
HK 22x28x7.5 TN		0.866	22	1.102	28	0.295	7.5	0.020	9	1,300	5,800	1,710	7,600	11,000
HK 2210	2210	0.866	22	1.102	28	0.394	10	0.029	13	1,690	7,500	2,360	10,500	11,000
HK 2212	BK 2212	0.866	22	1.102	28	0.472	12	0.033	15	2,050	9,100	3,000	13,400	11,000
HK 2216	BK 2216	0.866	22	1.102	28	0.630	16	0.046	21	3,000	13,400	4,950	22,100	11,000
HK 2220	BK 2220	0.866	22	1.102	28	0.787	20	0.057	26	3,700	16,500	6,500	29,000	11,000
SCE146	BCE146	0.875	22.225	1.125	28.575	0.375	9.525	0.029	13	1,850	8,200	2,400	10,700	12,600
SCE148	BCE148	0.875	22.225	1.125	28.575	0.500	12.700	0.042	19	2,500	11,200	3,550	15,800	12,600
SCE1412	BCE1412	0.875	22.225	1.125	28.575	0.750	19.050	0.061	28	3,800	16,900	6,100	27,000	12,600
SCE1416	BCE1416	0.875	22.225	1.125	28.575	1.000	25.400	0.075	34	4,950	22,100	8,500	38,000	12,600
SCH1412	BCH1412	0.875	22.225	1.188	30.162	0.750	19.050	0.070	32	4,400	19,500	6,100	27,000	12,600
SCH1416	BCH1416	0.875	22.225	1.188	30.162	1.000	25.400	0.094	43	5,800	25,500	8,600	38,500	12,600
SCE1516	BCE1516	0.937	23.812	1.187	30.162	1.000	25.400	0.084	38	5,400	24,100	9,700	43,000	11,800
HK 24x30x7.5 TN		0.945	24	1.181	30	0.295	7.500	0.022	10	1,370	6,100	1,840	8,200	10,000
HK 2512	BK 2512	0.984	25	1.260	32	0.472	12	0.044	20	2,470	11,000	3,400	15,200	10,000
HK 2516	BK 2516	0.984	25	1.260	32	0.630	16	0.060	27	3,500	15,600	5,400	24,000	10,000
HK 2520	BK 2520	0.984	25	1.260	32	0.787	20	0.073	33	4,450	19,900	7,400	33,000	10,000
HK 2526	BK 2526	0.984	25	1.260	32	1.024	26	0.097	44	5,700	25,500	10,100	45,000	10,000
HK 2538	BK 2538	0.984	25	1.260	32	1.496	38	0.141	64	7,600	34,000	14,800	66,000	10,000
SCE166	BCE166	1.000	25.400	1.250	31.750	0.375	9.525	0.040	18	1,750	7,800	2,300	10,200	11,000
SCE168	BCE168	1.000	25.400	1.250	31.750	0.500	12.700	0.042	19	2,850	12,600	4,300	19,100	11,000
SCE1612	BCE1612	1.000	25.400	1.250	31.750	0.750	19.050	0.060	27	4,150	18,500	7,000	31,500	11,000
SCE1616	BCE1616	1.000	25.400	1.250	31.750	1.000	25.400	0.084	38	5,600	24,800	10,200	45,500	11,000
SCH1610	BCH1610	1.000	25.400	1.313	33.338	0.625	15.875	0.077	35	3,750	16,700	5,100	22,700	11,000
SCH1612	BCH1612	1.000	25.400	1.313	33.338	0.750	19.050	0.080	36	4,500	20,000	6,400	28,500	11,000
SCH1616	BCH1616	1.000	25.400	1.313	33.338	1.000	25.400	0.105	47	6,500	28,900	10,400	46,300	11,000
HK 2816	BK 2816	1.102	28	1.378	35	0.630	16	0.064	29	3,700	16,400	6,000	26,500	9,000
HK 2820	BK 2820	1.102	28	1.378	35	0.787	20	0.079	36	4,700	20,900	8,100	36,000	9,000

# Drawn Cup Needle Roller Bearings

## CAGE GUIDED BEARING SERIES



- Steel Drawn Cup Outer
- Inch and Metric Series
- Open End for Through Shafts
- Closed End for Shaft Ends
- Steel Cage or Nylon Cage (TN)



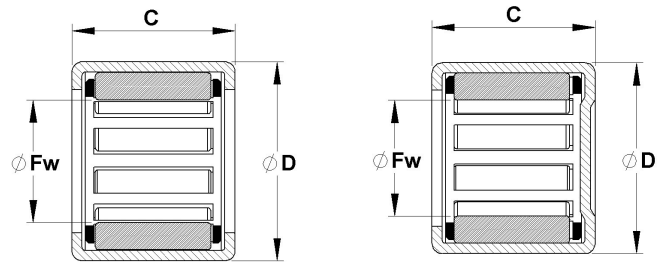
Part Number Open End	Part Number Close End	Shaft F <sub>w</sub>		OD D		Width C		Weight		Dynamic Cap. C		Static Cap. C <sub>0</sub>		Speed Limit rpm
		Inch	mm	Inch	mm	Inch	mm	lb	g	lbf	N	lbf	N	
SCE186	BCE186	1.125	28.575	1.375	34.925	0.375	9.525	0.042	19	1,870	8,300	2,600	11,500	9,800
SCE188	BCE188	1.125	28.575	1.375	34.925	0.500	12.700	0.045	21	2,900	12,800	4,550	20,200	9,800
SCE1812	BCE1812	1.125	28.575	1.375	34.925	0.750	19.050	0.066	30	4,250	18,900	7,700	34,000	9,800
SCE1816	BCE1816	1.125	28.575	1.375	34.925	1.000	25.400	0.088	40	5,800	26,000	11,100	49,500	9,800
SCH1810	BCH1810	1.125	28.575	1.500	38.1	0.625	15.875	0.094	43	4,900	21,800	6,500	29,000	9,800
SCH1812	BCH1812	1.125	28.575	1.500	38.1	0.750	19.05	0.105	48	5,700	25,000	7,800	35,000	9,800
SCH1816	BCH1816	1.125	28.575	1.500	38.1	1.000	25.400	0.138	63	7,100	31,500	10,600	46,500	9,800
SCH1818	BCH1818	1.125	28.575	1.500	38.1	1.125	28.580	0.186	85	9,100	40,500	14,500	65,000	9,800
SCH1820	BCH1820	1.125	28.575	1.500	38.1	1.250	31.750	0.121	55	9,200	40,900	14,600	64,500	9,800
HK 3012	BK 3012	1.181	30	1.457	37	0.472	12	0.051	23	2,700	12,100	4,100	18,200	8,500
HK 3016	BK 3016	1.181	30	1.457	37	0.630	16	0.068	31	3,850	17,200	6,500	29,000	8,500
HK 3020	BK 3020	1.181	30	1.457	37	0.787	20	0.086	39	4,950	22,000	8,900	39,500	8,500
HK 3026	BK 3026	1.181	30	1.457	37	1.024	26	0.112	51	6,300	28,000	12,100	54,000	8,500
HK 3038	BK 3038	1.181	30	1.457	37	1.496	38	0.168	76	8,400	37,500	17,800	79,000	8,500
SCE1916		1.187	30.162	1.500	38.1	1.000	25.400	0.095	43	7,400	33,000	12,900	57,000	9,300
SCE208	BCE208	1.250	31.750	1.500	38.1	0.500	12.700	0.049	22	3,000	13,500	4,950	22,200	8,800
SCE2010	BCE2010	1.250	31.750	1.500	38.1	0.625	15.875	0.066	30	3,700	16,500	6,500	29,000	8,800
SCE2012	BCE2012	1.250	31.750	1.500	38.1	0.750	19.050	0.082	37	4,750	21,100	8,900	39,500	8,800
SCE2016	BCE2016	1.250	31.750	1.500	38.1	1.000	25.400	0.099	45	6,100	27,000	12,300	55,000	8,800
SCE2020	BCE2020	1.250	31.750	1.500	38.1	1.250	31.750	0.123	56	7,500	33,500	16,100	71,000	8,800
SCH208	BCH208	1.250	31.750	1.625	41.275	0.500	12.700	0.079	36	3,700	16,400	4,700	21,000	8,800
SCH2012	BCH2012	1.250	31.750	1.625	41.275	0.750	19.05	0.137	62	6,100	27,100	8,900	39,500	8,800
SCH2016	BCH2016	1.250	31.750	1.625	41.275	1.000	25.400	0.157	71	8,100	36,000	12,900	57,500	8,800
SCH2020	BCH2020	1.250	31.750	1.625	41.275	1.250	31.750	0.174	79	9,800	43,600	16,400	72,900	8,800
HK	32x39x24	1.260	32	1.535	39	0.945	24	0.110	50	6,200	27,500	12,100	54,000	8,000
SCE2110		1.313	33.338	1.625	41.275	0.625	15.875	0.082	37	4,750	21,100	7,600	34,000	8,400

# Drawn Cup Needle Roller Bearings

## CAGE GUIDED BEARING SERIES



- Steel Drawn Cup Outer
- Inch and Metric Series
- Open End for Through Shafts
- Closed End for Shaft Ends
- Steel Cage or Nylon Cage (TN)



Part Number Open End	Part Number Close End	Shaft F <sub>w</sub>		OD D		Width C		Weight		Dynamic Cap. C		Static Cap. C <sub>0</sub>		Speed Limit rpm
		Inch	mm	Inch	mm	Inch	mm	lb	g	lbf	N	lbf	N	
SCE228	BCE228	1.375	34.925	1.625	41.275	0.500	12.700	0.055	25	3,050	13,600	5,300	23,700	8,000
SCE2212	BCE2212	1.375	34.925	1.625	41.275	0.750	19.050	0.086	39	4,800	21,500	9,600	42,500	8,000
SCE2216		1.375	34.925	1.625	41.275	1.000	25.400	0.128	58	6,200	27,500	13,300	59,000	8,000
SCE2220	BCE2220	1.375	34.925	1.625	41.275	1.250	31.750	0.179	81	7,600	34,000	17,300	77,000	8,000
SCH2212	BCH2212	1.375	34.925	1.750	44.450	0.750	19.050	0.127	57	6,600	29,500	10,100	45,000	8,000
SCH2216	BCH2216	1.375	34.925	1.750	44.450	1.000	25.400	0.170	77	8,800	39,000	14,700	65,000	8,000
HK 3512	BK 3512	1.378	35	1.654	42	0.472	12	0.060	27	2,950	13,100	4,800	21,300	7,500
HK 3516	BK 3516	1.378	35	1.654	42	0.630	16	0.079	36	4,200	18,700	7,500	33,500	7,500
HK 3520	BK 3520	1.378	35	1.654	42	0.787	20	0.097	44	5,400	23,800	10,300	46,000	7,500
SCE248	BCE248	1.500	38.100	1.875	47.625	0.500	12.700	0.106	48	4,200	18,600	5,800	26,000	7,400
SCE2410	BCE2410	1.500	38.100	1.875	47.625	0.625	15.875	0.119	54	5,500	24,400	8,300	36,500	7,400
SCE2412	BCE2412	1.500	38.100	1.875	47.625	0.750	19.050	0.137	62	6,800	30,500	10,900	48,500	7,400
SCE2414	BCE2414	1.500	38.100	1.875	47.625	0.875	22.225	0.159	72	8,100	36,000	13,500	60,000	7,400
SCE2416	BCE2416	1.500	38.100	1.875	47.625	1.000	25.400	0.183	83	8,700	38,500	14,900	66,000	7,400
SCE2420	BCE2420	1.500	38.100	1.875	47.625	1.250	31.750	0.232	105	10,600	47,500	19,200	86,000	7,400
HK 4012	BK 4012	1.575	40	1.850	47	0.472	12	0.066	30	3,150	14,000	5,500	24,300	6,500
HK 4016	BK 4020	1.575	40	1.850	47	0.630	16	0.086	39	4,500	20,000	8,700	38,500	6,500
HK 4020	BK 4020	1.575	40	1.850	47	0.787	20	0.119	54	5,700	25,500	11,700	52,000	6,500
SCE2610	BCE2610	1.625	41.275	2.000	50.800	0.625	15.875	0.121	55	5,700	25,500	8,900	40,000	6,800
SCE2620	BCE2620	1.625	41.275	2.000	50.800	1.250	31.750	0.243	110	11,400	51,000	21,900	97,000	6,800
SCE2812	BCE2812	1.750	44.450	2.125	53.975	0.750	19.050	0.181	82	7,100	31,500	12,300	55,000	6,300
SCE2816	BCE2816	1.750	44.450	2.125	53.975	1.000	25.400	0.254	115	9,300	41,500	17,000	76,000	6,300
SCE2820		1.750	44.450	2.125	53.975	1.250	31.750	0.295	134	12,400	55,000	24,300	108,000	6,300
SCE2824	BCE2824	1.750	44.450	2.125	53.975	1.500	38.100	0.359	163	14,000	62,000	29,000	130,000	6,300
HK 4512	4512	1.772	45	2.047	52	0.472	12	0.073	33	3,350	14,900	6,200	27,500	6,000
HK 4516	BK 4516	1.772	45	2.047	52	0.630	16	0.101	46	4,800	21,300	9,700	43,000	6,000
HK 4520	BK 4520	1.772	45	2.047	52	0.787	20	0.123	56	6,100	27,000	13,300	59,000	6,000

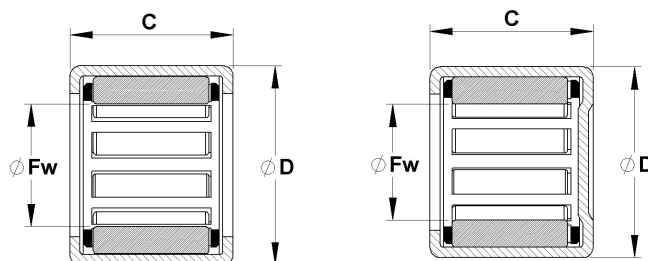


# Drawn Cup Needle Roller Bearings

## CAGE GUIDED BEARING SERIES



- Steel Drawn Cup Outer
- Inch and Metric Series
- Open End for Through Shafts
- Closed End for Shaft Ends
- Steel Cage or Nylon Cage (TN)



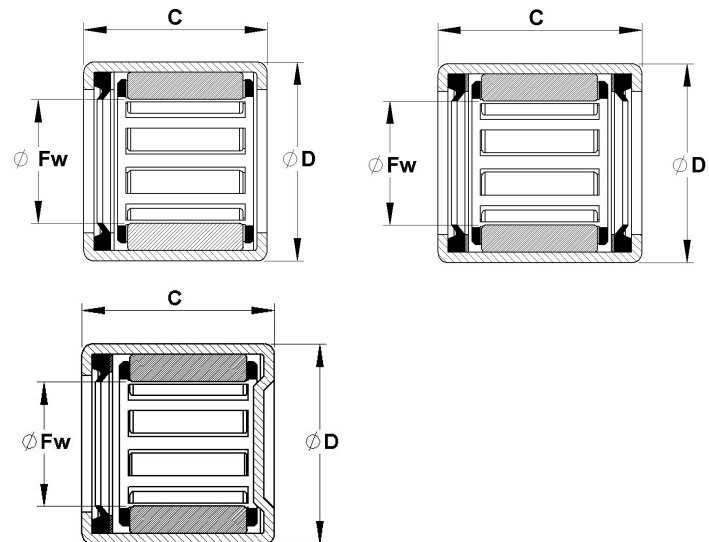
Part Number Open End	Part Number Close End	Shaft F <sub>w</sub>		OD D		Width C		Weight		Dynamic Cap. C		Static Cap. C <sub>0</sub>		Speed Limit rpm
		Inch	mm	Inch	mm	Inch	mm	lb	g	lbf	N	lbf	N	
HK 50x57x16		1.969	50	2.244	57	0.630	16	0.110	50	4,100	18,200	8,200	36,500	5,000
HK 5020	BK 5020	1.969	50	2.283	58	0.787	20	0.154	70	7,000	31,000	14,200	63,000	5,000
HK 5025	BK 5025	1.969	50	2.283	58	0.984	25	0.198	90	8,700	38,500	18,900	84,000	5,000
SCE328		2.000	50.800	2.375	60.325	0.500	12.700	0.128	58	4,900	21,800	7,900	35,000	5,500
SCE3210		2.000	50.800	2.375	60.325	0.625	15.875	0.150	68	6,400	28,500	11,200	49,500	5,500
SCE3216	BCE3216	2.000	50.800	2.375	60.325	1.000	25.400	0.225	102	9,300	41,500	17,900	80,000	5,500
SCE3220		2.000	50.800	2.375	60.325	1.250	31.750	0.304	138	12,400	55,000	26,000	116,000	5,500
SCE348		2.125	53.975	2.500	63.500	0.500	12.700	0.137	62	5,200	5,200	8,700	39,000	5,200
SCE3410	BCE3410	2.125	53.975	2.500	63.500	0.625	15.875	0.159	72	7,000	31,000	12,700	57,000	5,200
SCE3416		2.125	53.975	2.500	63.500	1.000	25.400	0.256	116	11,200	50,000	23,200	103,000	5,200
HK 5520	BK 5520	2.165	55	2.480	63	0.787	20	0.163	74	7,100	31,500	15,100	67,000	4,700
HK 5528	BK 5528	2.165	55	2.480	63	1.102	28	0.232	105	9,900	44,000	23,200	103,000	4,700
SCE3612	BCE3612	2.250	57.150	2.625	66.675	0.750	19.050	0.196	89	8,400	37,500	16,200	72,000	4,900
SCE3616	BCE3616	2.250	57.150	2.625	66.675	1.000	25.400	0.265	120	11,300	50,000	24,000	107,000	4,900
HK 6012	BK 6012	2.362	60	2.677	68	0.472	12	0.108	49	3,900	17,400	7,200	32,000	4,400
HK 6020	BK 6020	2.362	60	2.677	68	0.787	20	0.179	81	7,500	33,500	16,900	75,000	4,400
HK 6032	BK 6032	2.362	60	2.677	68	1.260	32	0.300	136	11,900	53,000	30,500	135,000	4,400
SCE4412	BCE4412	2.750	69.85	3.125	79.375	0.750	19.050	0.291	132	8,800	38,500	18,300	80,000	4,000
SCE5612		3.500	88.90	4.000	101.60	0.750	19.050	0.410	186	11,900	53,000	23,200	103,000	3,150

# Drawn Cup Needle Roller Bearings

## CAGE GUIDED & SEALED BEARING SERIES



- Steel Drawn Cup Outer
- Inch and Metric Series
- Open End for Through Shafts
- Closed End for Shaft Ends
- Steel Cage or Nylon Cage (TN)



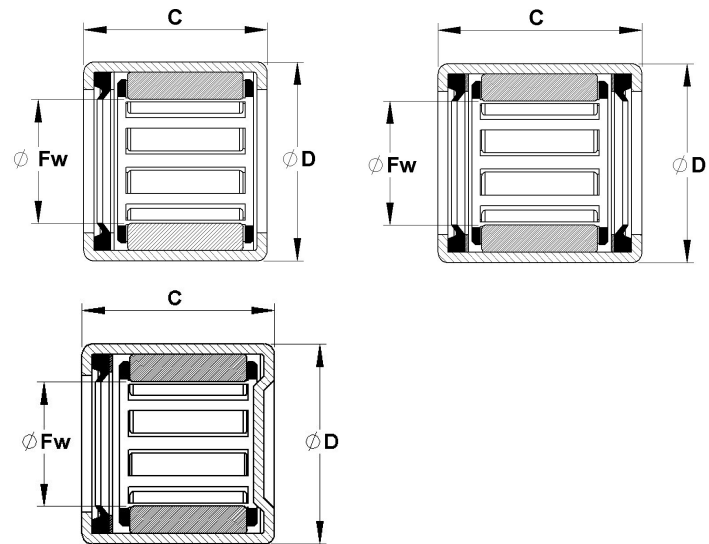
Part Number with 2 Seals	Part Number with 1 Seal	Part Number with 1 Seal & Close End	Shaft F <sub>w</sub>		OD D		Width C		Weight		Dynamic Cap. C		Static Cap. C <sub>o</sub>		Speed Limit
			Inch	mm	Inch	mm	Inch	mm	lb	g	lbf	N	lbf	N	rpm
	SCE45P		0.250	6.350	0.438	11.112	0.313	7.938	0.007	3	360	1,600	260	1,200	27,000
SCE46PP			0.250	6.350	0.438	11.112	0.375	9.525	0.010	5	360	1,600	260	1,200	27,000
	SCE46P		0.250	6.350	0.438	11.112	0.375	9.525	0.010	5	570	2,500	470	2,090	27,000
SCE47PP			0.250	6.350	0.438	11.112	0.438	11.112	0.009	4	570	2,500	470	2,090	27,000
	SCE48P	BCE48P	0.250	6.350	0.438	11.112	0.500	12.700	0.009	4	920	4,000	870	3,850	27,000
SCE49PP			0.250	6.350	0.438	11.112	0.563	14.288	0.011	5	920	4,000	870	3,850	27,000
		SCE56P	0.313	7.938	0.500	12.700	0.375	9.525	0.009	4	650	2,900	590	2,600	23,000
SCE57PP			0.313	7.938	0.500	12.700	0.438	11.112	0.008	4	650	2,900	590	2,600	23,000
	SCE58P	BCE58P	0.313	7.938	0.500	12.700	0.500	12.700	0.013	6	1,060	4,700	1,090	4,850	23,000
SCE59PPR			0.313	7.938	0.500	12.700	0.563	14.288	0.011	5	1,060	4,700	1,090	4,850	23,000
	SCH58P	BCH58P	0.313	7.938	0.563	14.288	0.500	12.700	0.009	4	1,170	5,200	1,080	4,800	21,000
HK 0810-RS			0.315	8	0.472	12	0.394	10	0.007	3	620	2,750	590	2,600	20,000
HK 0812-2RS			0.315	8	0.472	12	0.472	12	0.007	3	620	2,750	590	2,600	20,000
	SCE66P	BCE66P	0.375	9.525	0.563	14.288	0.375	9.525	0.011	5	650	2,900	610	2,700	20,000
SCE67PP			0.375	9.525	0.563	14.288	0.438	11.112	0.026	12	650	2,900	610	2,700	20,000
SCE68PP			0.375	9.525	0.563	14.288	0.500	12.700	0.013	6	870	3,900	890	3,950	20,000
	SCE69P	BCE69P	0.375	9.525	0.563	14.288	0.563	14.288	0.015	7	1,300	5,800	1,490	6,600	20,000
SCE610PP			0.375	9.525	0.563	14.288	0.625	15.875	0.015	7	1,300	5,800	1,490	6,600	20,000
	HK 1012-RS		0.394	10	0.551	14	0.472	12	0.009	4	990	4,400	1,150	5,100	17,000
HK 1014-2RS			0.394	10	0.551	14	0.551	14	0.010	5	990	4,400	1,150	5,100	17,000
	SCH79P	BCH79P	0.438	11.112	0.688	17.462	0.563	14.288	0.020	9	1,780	7,900	1,840	8,200	15,000
		SCH710PP	0.438	11.112	0.688	17.462	0.625	15.875	0.024	11	1,780	7,900	1,840	8,200	15,000
	HK 1214-RS		0.472	12	0.709	18	0.551	14	0.022	10	1,460	6,500	1,640	7,300	14,000
HK 1216-2RS			0.472	12	0.709	18	0.630	16	0.024	11	1,460	6,500	1,640	7,300	14,000
	SCE86P		0.500	12.700	0.688	17.462	0.375	9.525	0.020	9	820	3,650	890	3,950	15,000
SCE87PP			0.500	12.700	0.688	17.462	0.438	11.112	0.013	6	820	3,650	890	3,950	15,000
	SCE89P	BCE89P	0.500	12.700	0.688	17.462	0.563	14.288	0.022	10	1,550	6,900	2,030	9,000	15,000
		SCE810PP	0.500	12.700	0.688	17.462	0.625	15.875	0.022	10	1,550	6,900	2,030	9,000	15,000
		SCE812PP	0.500	12.700	0.688	17.462	0.750	19.050	0.030	14	1,980	8,800	2,750	12,300	15,000
	SCH813PR	BCH813P	0.500	12.700	0.750	19.050	0.813	20.638	0.037	17	2,850	12,600	3,550	15,700	14,000

# Drawn Cup Needle Roller Bearings

## CAGE GUIDED & SEALED BEARING SERIES



- Steel Drawn Cup Outer
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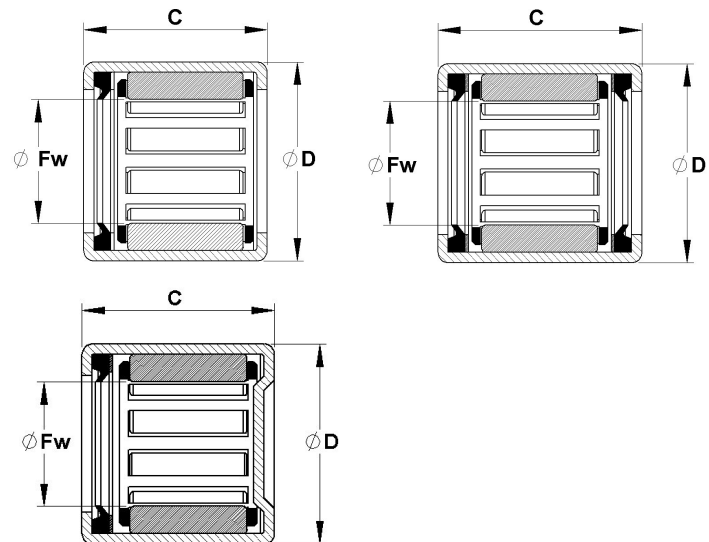
Part Number with 2 Seals	Part Number with 1 Seal	Part Number with 1 Seal & Close End	Shaft F <sub>w</sub>		OD D		Width C		Weight		Dynamic Cap. C		Static Cap. C <sub>o</sub>		Speed Limit rpm
			Inch	mm	Inch	mm	Inch	mm	lb	g	lbf	N	lbf	N	
SCH814PPR			0.500	12.700	0.750	19.050	0.875	22.225	0.026	12	2,850	12,600	3,550	15,700	14,000
	HK 1414-RS	BK 1414-RS	0.551	14	0.787	20	0.551	14	0.026	12	1,600	7,100	1,910	8,500	12,000
HK 1416-2RS			0.551	14	0.787	20	0.630	16	0.029	13	1,600	7,100	1,910	8,500	12,000
		SCE99P	0.563	14.288	0.750	19.050	0.563	14.288	0.026	12	1,730	7,700	2,420	10,800	14,000
SCE910PP			0.563	14.288	0.750	19.050	0.625	15.875	0.029	13	1,730	7,700	2,420	10,800	14,000
SCE912PP			0.563	14.288	0.750	19.050	0.750	19.050	0.027	12	2,120	9,600	3,150	14,000	14,000
	SCH910PR	BCH910PR	0.563	14.288	0.813	20.638	0.625	15.875	0.022	10	2,450	10,900	3,000	13,300	12,000
	SCH913P	BCH913P	0.563	14.288	0.813	20.638	0.813	20.638	0.042	19	3,250	14,400	4,250	19,000	12,000
	HK 1514-RS	BK 1514-RS	0.591	15	0.827	21	0.551	14	0.026	12	1,750	7,800	2,200	9,800	11,000
	HK 1516-2RS		0.591	15	0.827	21	0.630	16	0.033	15	1,750	7,800	2,200	9,800	11,000
	HK 1518-RS		0.591	15	0.827	21	0.709	18	0.035	16	2,360	10,500	3,250	14,400	11,000
HK 1520-2RS			0.591	15	0.827	21	0.787	20	0.040	18	2,360	10,500	3,250	14,400	11,000
		SCE109P	0.625	15.875	0.813	20.638	0.563	14.288	0.022	10	1,830	8,100	2,700	12,000	13,000
SCE1010PP			0.625	15.875	0.813	20.638	0.625	15.875	0.022	10	1,830	8,100	2,700	12,000	13,000
	SCE1011P		0.625	15.875	0.813	20.638	0.687	17.460	0.026	12	2,330	10,400	3,650	16,300	13,000
SCE1012PP			0.625	15.875	0.813	20.638	0.750	19.050	0.029	13	2,330	10,400	3,650	16,300	13,000
SCE1014PP			0.625	15.875	0.813	20.638	0.875	22.225	0.033	15	2,700	12,100	4,450	19,700	13,000
	HK 1614-RS	BK1614-RS	0.630	16	0.866	22	0.551	14	0.029	13	1,710	7,600	2,180	9,700	11,000
HK 1616-2RS			0.630	16	0.866	22	0.630	16	0.031	14	1,710	7,600	2,180	9,700	11,000
HK 1620-2RS			0.630	16	0.866	22	0.787	20	0.040	18	2,450	10,900	3,450	15,300	11,000
		BCH06604PK	0.670	17.015	0.938	23.813	0.688	17.480	0.037	17	1,660	7,400	1,800	8,000	11,000
		BCH06604PR	0.670	17.015	0.938	23.813	0.688	17.480	0.037	17	1,660	7,400	1,800	8,000	11,000
	SCH06604PR		0.670	17.015	0.939	23.838	0.688	17.480	0.029	13	1,660	7,400	1,800	8,000	11,000
	HK 1814-RS		0.709	18	0.945	24	0.551	14	0.031	14	1,820	8,100	2,450	10,900	9,500
HK 1816-2RS			0.709	18	0.945	24	0.630	16	0.033	15	1,820	8,100	2,450	10,900	9,500
SCE128PP			0.750	19.050	1.000	25.400	0.438	11.112	0.029	13	1,600	7,100	1,860	8,300	10,000
	SCE129P	BCE129P	0.750	19.050	1.000	25.400	0.563	14.288	0.037	17	2,210	9,800	2,800	12,500	10,000
SCE1210PP			0.750	19.050	1.000	25.400	0.625	15.875	0.036	17	2,210	9,800	2,800	12,500	10,000
	SCE1211P	BCE1211P	0.750	19.050	1.000	25.400	0.687	17.460	0.049	22	2,850	12,800	3,950	17,500	10,000

# Drawn Cup Needle Roller Bearings

## CAGE GUIDED & SEALED BEARING SERIES



- Steel Drawn Cup Outer
- Inch and Metric Series
- Open End for Through Shafts
- Closed End for Shaft Ends
- Steel Cage or Nylon Cage (TN)



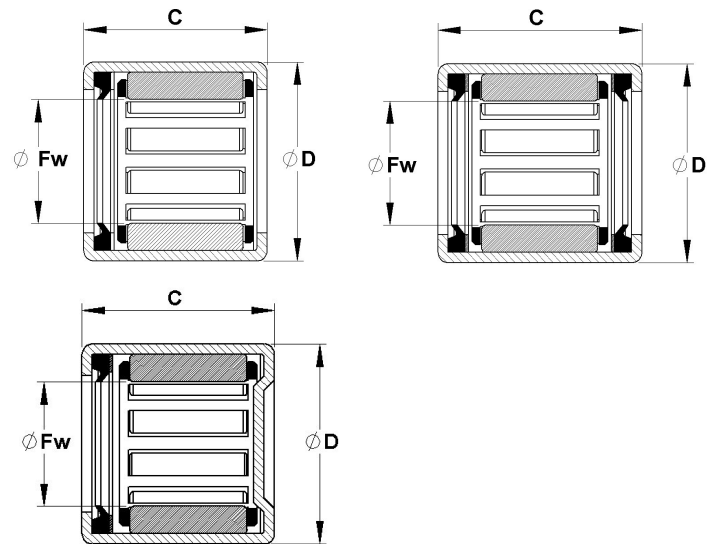
Part Number with 2 Seals	Part Number with 1 Seal	Part Number with 1 Seal & Close End	Shaft F <sub>w</sub>		OD D		Width C		Weight		Dynamic Cap. C		Static Cap. C <sub>0</sub>		Speed Limit
			Inch	mm	Inch	mm	Inch	mm	lb	g	lbf	N	lbf	N	rpm
SCE1212PP			0.750	19.050	1.000	25.400	0.750	19.050	0.045	20	2,850	12,800	3,950	17,500	10,000
SCE1214PPR			0.750	19.050	1.000	25.400	0.875	22.225	0.056	25	3,450	15,300	5,000	22,100	10,000
HK 2016-2RS			0.787	20	1.024	26	0.630	16	0.040	18	1,930	8,600	2,700	12,100	8,500
	HK 2018-RS	BK 2018-RS	0.787	20	1.024	26	0.709	18	0.046	21	2,850	12,700	4,500	20,100	8,500
HK 2020-2RS			0.787	20	1.024	26	0.787	20	0.051	23	2,850	12,700	4,500	20,100	8,500
	HK 2214-RS		0.866	22	1.102	28	0.551	14	0.035	16	2,050	9,100	3,000	13,400	8,000
HK 2216-2RS			0.866	22	1.102	28	0.630	16	0.040	18	2,050	9,100	3,000	13,400	8,000
	HK 2218-RS		0.866	22	1.102	28	0.709	18	0.053	24	3,000	13,400	4,950	22,100	8,000
HK 2220-RS			0.866	22	1.102	28	0.787	20	0.057	26	3,000	13,400	4,950	22,100	8,000
SCE148PP			0.875	22.225	1.125	28.575	0.500	12.700	0.035	16	1,850	8,200	2,400	10,700	9,000
SCE1414PP			0.875	22.225	1.125	28.575	0.875	22.225	0.066	30	3,800	16,900	6,100	27,000	9,000
	SCH1413P	BCH1413P	0.875	22.225	1.188	30.162	0.813	20.638	0.075	34	4,400	19,500	6,100	27,000	8,000
SCH1414PP			0.875	22.225	1.188	30.162	0.875	22.225	0.060	27	4,050	18,100	6,100	27,000	8,000
HK 2516-2RS			0.984	25	1.260	32	0.630	16	0.060	27	2,470	11,000	3,400	15,200	7,000
	HK 2518-RS	BK 2518-RS	0.984	25	1.260	32	0.709	18	0.064	29	3,500	15,600	5,400	24,000	7,000
HK 2520-2RS			0.984	25	1.260	32	0.787	20	0.068	31	3,500	15,600	5,400	24,000	7,000
HK 2524-2RS			0.984	25	1.260	32	0.945	24	0.088	40	4,450	19,900	7,400	33,000	7,000
HK 2530-2RS			0.984	25	1.260	32	1.181	30	0.104	47	5,700	25,500	10,100	45,000	7,000
SCE1616PP			1.000	25.400	1.250	31.750	1.000	25.400	0.073	33	4,050	18,000	6,800	30,000	8,000
	SCH1613P		1.000	25.400	1.313	33.338	0.813	20.638	0.079	36	4,150	18,500	6,400	28,500	7,000
	SCH1614P	BCH1614P	1.000	25.400	1.313	33.338	0.875	22.225	0.086	39	4,500	20,000	6,400	28,500	7,000
SCH1616PP			1.000	25.400	1.313	33.338	1.000	25.400	0.095	43	4,500	20,000	6,400	28,500	7,000
HK 2820-2RS			1.102	28	1.378	35	0.787	20	0.075	34	3,700	16,400	6,000	26,500	6,000
HK 3016-2RS			1.181	30	1.457	37	0.630	16	0.068	31	2,700	12,100	4,100	18,200	6,000
	HK 3018-RS		1.181	30	1.457	37	0.709	18	0.082	37	3,850	17,200	6,500	29,000	6,000
HK 3020-2RS			1.181	30	1.457	37	0.787	20	0.079	36	3,850	17,200	6,500	29,000	6,000
HK 3024-2RS			1.181	30	1.457	37	0.945	24	0.097	44	4,950	22,000	8,900	39,500	6,000

# Drawn Cup Needle Roller Bearings

## CAGE GUIDED & SEALED BEARING SERIES



- Steel Drawn Cup Outer
- Inch and Metric Series
- Open End for Through Shafts
- Closed End for Shaft Ends
- Steel Cage or Nylon Cage (TN)



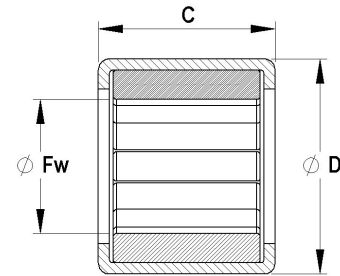
Part Number with 2 Seals	Part Number with 1 Seal	Part Number with 1 Seal & Close End	Shaft $F_w$		OD $D$		Width $C$		Weight		Dynamic Cap. $C$		Static Cap. $C_o$		Speed Limit
			Inch	mm	Inch	mm	Inch	mm	lb	g	lbf	N	lbf	N	
	SCE2012P		1.250	31.750	1.500	38.100	0.750	19.050	0.079	36	3,650	16,300	6,400	28,500	6,500
	SCE2014PR		1.250	31.750	1.500	38.100	0.875	22.225	0.084	38	4,750	21,100	8,900	39,500	6,500
SCE2016PPR			1.250	31.750	1.500	38.100	1.000	25.400	0.108	49	4,750	21,100	8,900	39,500	6,500
	SCH2018P		1.250	31.750	1.625	41.275	1.125	28.580	0.168	76	8,200	36,500	13,000	58,000	6,000
SCH2020PP			1.250	31.750	1.625	41.275	1.250	31.750	0.192	87	7,400	33,000	12,800	57,000	6,000
		BCH2212PV	1.375	34.925	1.750	44.450	0.750	19.050	0.099	45	5,600	25,000	9,100	40,500	6,000
HK 3516-2RS			1.378	35	1.654	42	0.630	16	0.071	32	2,950	13,100	4,800	21,300	5,000
	HK 3518-RS		1.378	35	1.654	42	0.709	18	0.086	39	4,200	18,700	7,500	33,500	5,000
HK 3520-2RS			1.378	35	1.654	42	0.787	20	0.090	41	4,200	18,700	7,500	33,500	5,000
		SCE2414P	1.500	38.100	1.875	47.625	0.875	22.225	0.155	70	6,900	30,500	11,100	49,500	5,500
		SCE2416P	1.500	38.100	1.875	47.625	1.000	25.400	0.183	83	8,100	36,000	13,700	61,000	5,500
		SCE2422P	1.500	38.100	1.875	47.625	1.375	34.920	0.243	110	10,600	47,000	19,200	19,464	5,500
		SCE2424PP	1.500	38.100	1.875	47.625	1.500	38.100	0.258	117	10,600	47,000	19,200	19,464	5,500
HK 4016-2RS			1.575	40	1.850	47	0.630	16	0.082	37	3,150	14,000	5,500	24,300	4,500
	HK 4018-RS		1.575	40	1.850	47	0.709	18	0.099	45	4,500	20,000	8,700	38,500	4,500
HK 4020-2RS			1.575	40	1.850	47	0.787	20	0.106	48	4,500	20,000	8,700	38,500	4,500
	HK 4518-RS		1.772	45	2.047	52	0.709	18	0.110	50	4,800	21,300	9,700	43,000	4,000
HK 4520-2RS			1.772	45	2.047	52	0.787	20	0.119	54	4,800	21,300	9,700	43,000	4,000
	HK 5022-RS		1.969	50	2.284	58	0.866	22	0.168	76	7,000	31,000	14,200	63,000	3,600
HK 5024-2RS			1.969	50	2.284	58	0.945	24	0.179	81	7,000	31,000	14,200	63,000	3,600

# Drawn Cup Needle Roller Bearings

FULL COMPLEMENT (GREASE RETAINED)



- Steel Drawn Cup Outer
- Inch Series
- Needle Rollers Retained by Grease



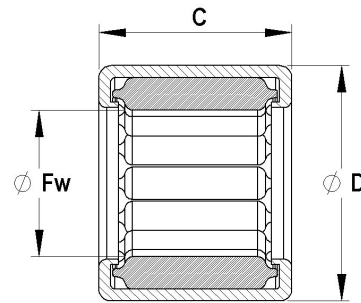
Part Number	Shaft F <sub>w</sub>		OD D		Width C		Weight		Dynamic Cap. C		Static Cap. C <sub>o</sub>		Speed Limit
	Inch	mm	Inch	mm	Inch	mm	lb	g	lbf	N	lbf	N	rpm
SN45	0.2500	6.350	0.4375	11.112	0.3125	7.938	0.007	3	980	4,350	1,100	4,900	10,000
SN55	0.3125	7.938	0.5000	12.700	0.3125	7.938	0.009	4	1,260	5,600	1,390	6,200	8,300
SN56	0.3125	7.938	0.5000	12.700	0.3750	9.525	0.011	5	1,370	6,100	1,980	8,800	8,300
SN57	0.3125	7.938	0.5000	12.700	0.4375	11.113	0.011	5	1,620	7,200	2,200	9,800	8,300
SN65	0.3750	9.525	0.5625	14.288	0.3125	7.938	0.010	5	1,390	6,200	1,660	7,400	7,100
CSN66	0.3750	9.525	0.5625	14.288	0.5000	12.700	0.008	4	1,550	6,900	2,090	9,300	7,100
SN66	0.3750	9.525	0.5625	14.288	0.3750	9.525	0.008	4	1,300	5,800	1,190	5,300	7,100
SN68	0.3750	9.525	0.5625	14.288	0.5000	12.700	0.015	7	1,730	7,700	1,730	7,700	7,100
SN76	0.4375	11.112	0.6250	15.875	0.3750	9.525	0.020	9	1,710	7,600	2,470	11,000	6,300
SN78	0.4375	11.112	0.6250	15.875	0.5000	12.700	0.018	8	2,230	9,900	3,600	16,000	6,300
SN88	0.5000	12.700	0.6875	17.462	0.5000	12.700	0.020	9	2,650	11,800	4,150	18,400	5,600
SN810	0.5000	12.700	0.6875	17.462	0.6250	15.875	0.024	11	2,900	12,900	5,300	23,600	5,600
SN812	0.5000	12.700	0.6875	17.462	0.7500	19.050	0.031	14	3,600	15,900	6,600	29,500	5,600
SNH87	0.5000	12.700	0.7500	19.050	0.4375	11.112	0.024	11	2,110	9,400	1,960	8,700	5,300
SN105	0.6250	15.875	0.8125	20.638	0.3125	7.938	0.015	7	1,440	6,400	1,510	6,700	4,550
SN116	0.6875	17.462	0.8750	22.225	0.3750	9.525	0.019	9	2,090	9,300	3,850	17,100	4,200
SN128	0.7500	19.050	1.0000	25.400	0.5000	12.700	0.037	17	3,350	15,000	5,600	25,000	3,750
SN148	0.8750	22.225	1.1250	28.575	0.5000	12.700	0.040	18	3,900	17,400	7,100	31,500	3,250
SN1816	1.1250	28.575	1.3750	34.925	1.0000	25.400	0.130	59	8,200	36,500	20,200	90,000	2,600
CSN2816	1.7500	44.450	2.1250	53.975	1.0000	25.400	0.269	122	13,300	59,000	30,500	136,000	1,660

# Drawn Cup Needle Roller Bearings

FULL COMPLEMENT (MECHANICALLY RETAINED)



- Steel Drawn Cup Outer
- Inch Series
- Needle Rollers Retained by Outer Shell
- Anti-rust Preservative Oil



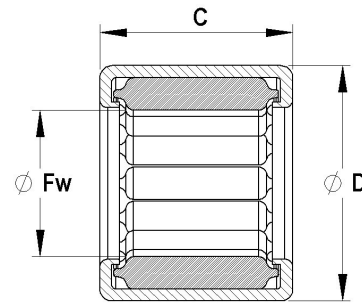
Part Number	Shaft F <sub>w</sub>		OD D		Width C		Weight		Dynamic Cap. C		Static Cap. C <sub>o</sub>		Speed Limit
	Inch	mm	Inch	mm	Inch	mm	lb	g	lbf	N	lbf	N	rpm
S1612	1.0000	25.400	1.2500	31.750	0.7500	19.050	0.071	32	5,500	24,600	11,900	53,000	4,300
S168	1.0000	25.400	1.2500	31.750	0.5000	12.700	0.044	20	3,600	15,900	6,700	30,000	4,300
SH1612	1.0000	25.400	1.3125	33.380	0.7500	19.050	0.088	40	6,900	30,500	11,100	49,500	4,250
SH1616	1.0000	25.400	1.3125	33.380	1.0000	25.400	0.108	49	8,900	39,500	15,700	70,000	4,250
S1710	1.0625	26.988	1.3125	33.338	0.6250	15.875	0.062	28	4,750	21,100	9,900	44,000	4,100
S1812	1.1250	28.575	1.3750	34.925	0.7500	19.050	0.079	36	6,500	29,000	13,300	59,000	3,900
S2012	1.2500	31.750	1.5000	38.100	0.7500	19.050	0.086	39	6,300	28,000	14,800	66,000	3,500
S2016	1.2500	31.750	1.5000	38.100	1.0000	25.400	0.117	53	8,200	36,500	20,900	93,000	3,500
S2212	1.3750	34.925	1.6250	41.275	0.7500	19.050	0.095	43	6,400	28,500	16,000	71,000	3,200
S2220	1.3750	34.925	1.6250	41.275	1.2500	31.750	0.159	72	10,300	46,000	30,000	133,000	3,200
S2416	1.5000	38.100	1.8750	47.625	1.0000	25.400	0.207	94	10,700	47,500	2,410	10,700	2,850
S2610	1.6250	41.275	2.0000	50.800	0.6250	15.875	0.130	59	6,500	29,000	12,400	55,000	2,650
S268	1.6250	41.275	2.0000	50.800	0.5000	12.700	0.088	40	7,300	32,500	12,400	55,000	2,650
S2812	1.7500	44.450	2.1250	53.975	0.7500	19.050	0.175	80	8,100	36,000	16,900	75,000	2,490
S2824	1.7500	44.450	2.1250	53.975	1.5000	38.100	0.375	170	18,900	84,000	44,000	196,000	2,490
S3016	1.8750	47.625	2.2500	57.150	1.0000	25.400	0.256	116	13,500	60,000	28,500	126,000	2,340
S308	1.8750	47.625	2.2500	57.150	0.5000	12.700	0.115	52	5,700	25,500	9,600	42,500	2,340
S3216	2.0000	50.800	2.3750	60.325	1.0000	25.400	0.267	121	12,400	55,000	30,500	136,000	2,200
S3624	2.2500	57.150	2.6250	66.675	1.5000	38.100	0.084	38	19,600	87,000	56,000	250,000	1,970
S4216	2.6250	66.675	3.0000	76.200	1.0000	25.400	0.353	160	14,400	64,000	40,000	177,000	1,700

# Drawn Cup Needle Roller Bearings

FULL COMPLEMENT (MECHANICALLY RETAINED)



- Steel Drawn Cup Outer
- Inch Series
- Needle Rollers Retained by Outer Shell
- Anti-rust Preservative Oil



Part Number	Shaft F <sub>w</sub>		OD D		Width C		Weight		Dynamic Cap. C		Static Cap. C <sub>o</sub>		Speed Limit
	Inch	mm	Inch	mm	Inch	mm	lb	g	lbf	N	lbf	N	rpm
S1612	1.0000	25.400	1.2500	31.750	0.7500	19.050	0.071	32	5,500	24,600	11,900	53,000	4,300
S168	1.0000	25.400	1.2500	31.750	0.5000	12.700	0.044	20	3,600	15,900	6,700	30,000	4,300
SH1612	1.0000	25.400	1.3125	33.380	0.7500	19.050	0.088	40	6,900	30,500	11,100	49,500	4,250
SH1616	1.0000	25.400	1.3125	33.380	1.0000	25.400	0.108	49	8,900	39,500	15,700	70,000	4,250
S1710	1.0625	26.988	1.3125	33.338	0.6250	15.875	0.062	28	4,750	21,100	9,900	44,000	4,100
S1812	1.1250	28.575	1.3750	34.925	0.7500	19.050	0.079	36	6,500	29,000	13,300	59,000	3,900
S2012	1.2500	31.750	1.5000	38.100	0.7500	19.050	0.086	39	6,300	28,000	14,800	66,000	3,500
S2016	1.2500	31.750	1.5000	38.100	1.0000	25.400	0.117	53	8,200	36,500	20,900	93,000	3,500
S2212	1.3750	34.925	1.6250	41.275	0.7500	19.050	0.095	43	6,400	28,500	16,000	71,000	3,200
S2220	1.3750	34.925	1.6250	41.275	1.2500	31.750	0.159	72	10,300	46,000	30,000	133,000	3,200
S2416	1.5000	38.100	1.8750	47.625	1.0000	25.400	0.207	94	10,700	47,500	2,410	10,700	2,850
S2610	1.6250	41.275	2.0000	50.800	0.6250	15.875	0.130	59	6,500	29,000	12,400	55,000	2,650
S268	1.6250	41.275	2.0000	50.800	0.5000	12.700	0.088	40	7,300	32,500	12,400	55,000	2,650
S2812	1.7500	44.450	2.1250	53.975	0.7500	19.050	0.175	80	8,100	36,000	16,900	75,000	2,490
S2824	1.7500	44.450	2.1250	53.975	1.5000	38.100	0.375	170	18,900	84,000	44,000	196,000	2,490
S3016	1.8750	47.625	2.2500	57.150	1.0000	25.400	0.256	116	13,500	60,000	28,500	126,000	2,340
S308	1.8750	47.625	2.2500	57.150	0.5000	12.700	0.115	52	5,700	25,500	9,600	42,500	2,340
S3216	2.0000	50.800	2.3750	60.325	1.0000	25.400	0.267	121	12,400	55,000	30,500	136,000	2,200
S3624	2.2500	57.150	2.6250	66.675	1.5000	38.100	0.084	38	19,600	87,000	56,000	250,000	1,970
S4216	2.6250	66.675	3.0000	76.200	1.0000	25.400	0.353	160	14,400	64,000	40,000	177,000	1,700

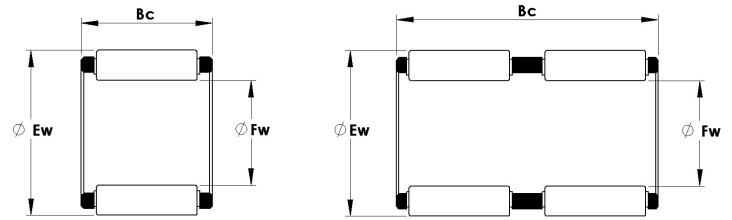


# Drawn Cup Needle Roller Bearings

## NEEDLE ROLLERS AND CAGE ASSEMBLY



- Inch and Metric Series
- Needle Rollers Retained by the cage
- Anti-rust Preservative Oil
- Part Number with “ZW” mean double row



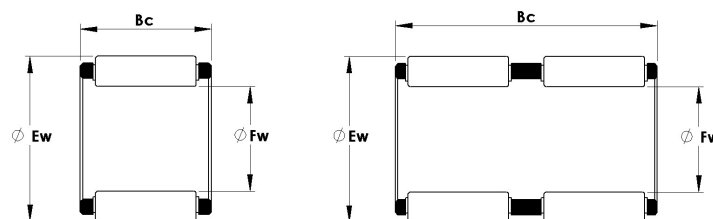
Part Number	Shaft F <sub>w</sub>		OD E <sub>w</sub>		Width B <sub>c</sub>		Weight		Dyn. Cap. C		Stat. Cap. C <sub>0</sub>		Speed Limit
	Inch	mm	Inch	mm	Inch	mm	lb	g	lbf	N	lbf	N	rpm
K 3x5x7 TN	0.118	3	0.197	5	0.276	7	0.001	0.3	345	1,540	290	1,290	50,000
K 3x5x9 TN	0.118	3	0.197	5	0.354	9	0.001	0.4	385	1,710	335	1,480	50,000
K 3x6x7 TN	0.118	3	0.236	6	0.276	7	0.001	0.4	320	1,430	218	970	47,000
K 4x7x7 TN	0.158	4	0.276	7	0.276	7	0.001	0.5	390	1,740	285	1,270	43,000
K 4x7x10 TN	0.158	4	0.276	7	0.394	10	0.002	0.7	520	2,330	415	1,840	43,000
K 5x8x8 TN	0.197	5	0.315	8	0.315	8	0.002	0.7	530	2,350	430	1,920	39,000
K 5x8x10 TN	0.197	5	0.315	8	0.394	10	0.002	0.9	670	3,000	600	2,650	39,000
K 6x9x8 TN	0.236	6	0.354	9	0.315	8	0.002	0.8	590	2,600	510	2,280	37,000
K 6x9x10 TN	0.236	6	0.354	9	0.394	10	0.002	1.1	750	3,350	710	3,150	37,000
K 6x10x13 TN	0.236	6	0.394	10	0.512	13	0.004	1.9	850	3,800	700	3,100	35,000
K 7x9x7 TN	0.276	7	0.354	9	0.276	7	0.001	0.6	405	1,810	425	1,880	35,000
K 7x10x8 TN	0.276	7	0.394	10	0.315	8	0.002	0.9	640	2,850	600	2,650	34,000
K 7x10x10 TN	0.276	7	0.394	10	0.394	10	0.002	1	820	3,650	810	3,600	34,000
K 8x11x8 TN	0.315	8	0.433	11	0.315	8	0.002	1	700	3,100	670	3,000	32,000
K 8x11x10 TN	0.315	8	0.433	11	0.394	10	0.003	1.2	890	3,950	920	4,100	32,000
K 8x11x13 TN	0.315	8	0.433	11	0.512	13	0.004	1.7	1,150	5,100	1,300	5,800	32,000
K 8x12x8	0.315	8	0.472	12	0.315	8	0.001	0.4	800	3,550	690	3,050	32,000
K 8x12x10 TN	0.315	8	0.472	12	0.394	10	0.004	2	1,120	5,000	1,060	4,700	32,000
K 9x12x10 TN	0.354	9	0.472	12	0.394	10	0.003	1.5	1,010	4,500	1,120	5,000	31,000
K 9x12x13 TN	0.354	9	0.472	12	0.512	13	0.005	2.1	1,330	5,900	1,600	7,100	31,000
C060806	0.375	9.5	0.500	12.7	0.375	9.5	0.005	2.5	900	4,000	940	4,200	30,000
K 10x13x10 TN	0.394	10	0.512	13	0.394	10	0.004	1.6	1,070	4,750	1,240	5,500	29,000
K 10x13x13 TN	0.394	10	0.512	13	0.512	13	0.005	2.3	1,390	6,200	1,750	7,800	29,000
K 10x13x16 TN	0.394	10	0.512	13	0.630	16	0.006	2.9	1,600	7,100	2,090	9,300	29,000
K 10x14x10 TN	0.394	10	0.551	14	0.394	10	0.006	2.5	1,300	5,800	1,350	6,000	29,000
K 10x14x13 TN	0.394	10	0.551	14	0.512	13	0.01	4.6	1,690	7,500	1,890	8,400	29,000

# Drawn Cup Needle Roller Bearings

## NEEDLE ROLLERS AND CAGE ASSEMBLY



- Inch and Metric Series
- Needle Rollers Retained by the cage
- Anti-rust Preservative Oil
- Part Number with “ZW” mean double row



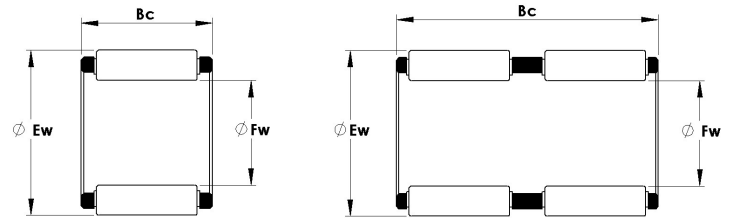
Part Number	Shaft F <sub>w</sub>		OD E <sub>w</sub>		Width B <sub>c</sub>		Weight		Dyn. Cap. C		Stat. Cap. C <sub>0</sub>		Speed Limit
	Inch	mm	Inch	mm	Inch	mm	lb	g	lbf	N	lbf	N	rpm
K 10x16x12 TN	0.394	10	0.630	16	0.472	12	0.012	5.5	1,820	8,100	1,620	7,200	28,000
K 12x15x10 TN	0.472	12	0.591	15	0.394	10	0.006	2.9	1,100	4,900	1,370	6,100	27,000
K 12x15x13 TN	0.472	12	0.591	15	0.512	13	0.005	2.3	1,440	6,400	1,910	8,500	27,000
K 12x15x20 ZW TN	0.472	12	0.591	15	0.787	20	0.011	5	1,890	8,400	2,750	12,200	27,000
K 12x16x10	0.472	12	0.630	16	0.394	10	0.008	3.7	1,440	6,400	1,620	7,200	27,000
K 12x16x13 TN	0.472	12	0.630	16	0.512	13	0.012	5.5	1,800	8,000	2,110	9,400	27,000
K 12x17x13 TN	0.472	12	0.669	17	0.512	13	0.011	4.9	2,160	9,600	2,340	10,400	26,000
K 12x18x12 TN	0.472	12	0.709	18	0.472	12	0.013	6	2,250	10,000	2,230	9,900	26,000
C081008	0.500	12.7	0.625	15.9	0.500	12.7	0.009	4.2	1,490	6,600	1,960	8,700	26,000
K 14x17x10	0.551	14	0.669	17	0.394	10	0.009	4	1,190	5,300	1,600	7,100	25,000
K 14x17x17 TN	0.551	14	0.669	17	0.669	17	0.009	4	2,050	9,100	3,150	14,100	25,000
K 14x18x10	0.551	14	0.709	18	0.394	10	0.009	4	1,600	7,100	1,910	8,500	25,000
K 14x18x13	0.551	14	0.709	18	0.512	13	0.014	6.5	1,840	8,200	2,270	10,100	25,000
K 14x18x14	0.551	14	0.709	18	0.551	14	0.013	6	2,140	9,500	2,750	12,300	25,000
K 14x18x15 TN	0.551	14	0.709	18	0.591	15	0.011	5	2,140	9,500	2,750	12,300	25,000
K 14x18x17	0.551	14	0.709	18	0.669	17	0.018	8	2,430	10,800	3,250	14,400	25,000
K 14x20x12	0.551	14	0.787	20	0.472	12	0.019	8.5	2,320	10,300	2,380	10,600	24,000
C091108	0.563	14.3	0.688	17.5	0.500	12.7	0.01	4.7	1,630	7,300	2,290	10,200	25,000
C091110	0.563	14.3	0.688	17.5	0.625	15.9	0.013	5.9	2,190	9,800	3,350	15,000	25,000
K 15x18x17 TN	0.591	15	0.709	18	0.669	17	0.01	4.6	1,800	8,000	2,700	12,100	25,000
K 15x19x10	0.591	15	0.748	19	0.394	10	0.011	5	1,690	7,500	2,070	9,200	24,000
K 15x19x13	0.591	15	0.748	19	0.512	13	0.015	7	1,910	8,500	2,450	10,900	24,000
K 15x19x17	0.591	15	0.748	19	0.669	17	0.021	9.5	2,550	11,300	3,500	15,600	24,000
K 15x20x13	0.591	15	0.787	20	0.512	13	0.015	7	2,230	9,900	2,600	11,500	24,000
K 15x21x15	0.591	15	0.827	21	0.591	15	0.024	11	3,200	14,300	3,700	16,400	24,000
K 15x21x21	0.591	15	0.827	21	0.827	21	0.037	17	4,350	19,400	5,500	24,300	24,000

# Drawn Cup Needle Roller Bearings

## NEEDLE ROLLERS AND CAGE ASSEMBLY



- Inch and Metric Series
- Needle Rollers Retained by the cage
- Anti-rust Preservative Oil
- Part Number with “ZW” mean double row



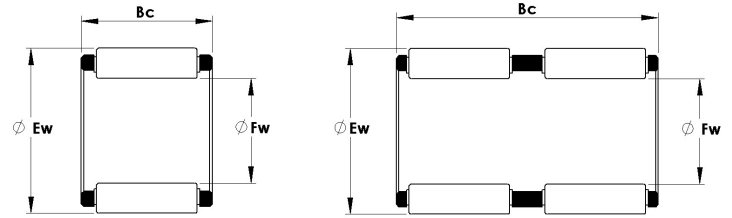
Part Number	Shaft F <sub>w</sub>		OD E <sub>w</sub>		Width B <sub>c</sub>		Weight		Dyn. Cap. C		Stat. Cap. C <sub>0</sub>		Speed Limit
	Inch	mm	Inch	mm	Inch	mm	lb	g	lbf	N	lbf	N	rpm
C101208	0.625	15.9	0.750	19.1	0.500	12.7	0.011	5.2	1,840	8,200	2,750	12,300	24,000
K 16x20x10	0.630	16	0.787	20	0.394	10	0.012	5.5	1,750	7,800	2,230	9,900	24,000
K 16x20x13	0.630	16	0.787	20	0.512	13	0.017	7.5	2,000	8,900	2,650	11,800	24,000
K 16x20x17	0.630	16	0.787	20	0.669	17	0.022	10	2,650	11,700	3,800	16,800	24,000
K 16x22x12	0.630	16	0.866	22	0.472	12	0.022	10	2,600	11,500	2,800	12,500	23,000
K 16x22x13	0.630	16	0.866	22	0.512	13	0.026	12	2,800	12,400	3,150	13,900	23,000
K 16x22x16	0.630	16	0.866	22	0.630	16	0.026	12	3,350	14,800	3,950	17,500	23,000
K 16x22x20	0.630	16	0.866	22	0.787	20	0.037	17	4,100	18,300	5,100	22,800	23,000
K 16x24x20	0.630	16	0.945	24	0.787	20	0.049	22	4,800	21,400	5,300	23,500	22,000
K 17x21x10	0.669	17	0.827	21	0.394	10	0.012	5.5	1,820	8,100	2,380	10,600	23,000
K 17x21x13	0.669	17	0.827	21	0.512	13	0.014	6.5	2,340	10,400	3,300	14,600	23,000
K 17x21x17	0.669	17	0.827	21	0.669	17	0.021	9.5	2,750	12,200	4,000	17,900	23,000
K 18x22x10	0.709	18	0.866	22	0.394	10	0.013	6	1,890	8,400	2,550	11,300	22,000
K 18x22x13	0.709	18	0.866	22	0.512	13	0.018	8	2,070	9,200	2,850	12,700	22,000
K 18x22x17	0.709	18	0.866	22	0.669	17	0.024	11	2,700	12,100	4,050	18,000	22,000
K 18x24x12	0.709	18	0.945	24	0.472	12	0.026	12	2,650	11,700	3,000	13,300	22,000
K 18x24x13	0.709	18	0.945	24	0.512	13	0.029	13	2,950	13,100	3,450	15,300	22,000
K 18x24x20	0.709	18	0.945	24	0.787	20	0.04	18	4,550	20,200	6,100	27,000	22,000
K 18x25x14	0.709	18	0.984	25	0.551	14	0.033	15	3,800	16,800	4,350	19,300	22,000
K 18x25x22	0.709	18	0.984	25	0.866	22	0.051	23	5,200	23,100	6,500	29,000	22,000
K 18x28x16	0.709	18	1.102	28	0.630	16	0.053	24	4,400	19,600	4,250	18,900	21,000
K 19x23x13	0.748	19	0.906	23	0.512	13	0.018	8	2,140	9,500	3,050	13,500	22,000
K 19x23x17	0.748	19	0.906	23	0.669	17	0.024	11	2,800	12,500	4,300	19,200	22,000
C121616	0.750	19.1	1.000	25.4	1.000	25.4	0.058	26.4	5,600	25,000	7,800	34,500	21,000
K 20x24x10	0.787	20	0.945	24	0.394	10	0.014	6.5	2,000	8,900	2,850	12,600	21,000
K 20x24x12	0.787	20	0.945	24	0.472	12	0.018	8	2,200	9,800	3,200	14,300	21,000

# Drawn Cup Needle Roller Bearings

## NEEDLE ROLLERS AND CAGE ASSEMBLY



- Inch and Metric Series
- Needle Rollers Retained by the cage
- Anti-rust Preservative Oil
- Part Number with “ZW” mean double row



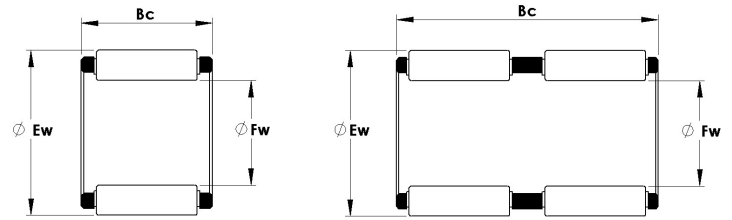
Part Number	Shaft F <sub>w</sub>		OD E <sub>w</sub>		Width B <sub>c</sub>		Weight		Dyn. Cap. C		Stat. Cap. C <sub>0</sub>		Speed Limit
	Inch	mm	Inch	mm	Inch	mm	lb	g	lbf	N	lbf	N	rpm
K 20x24x13	0.787	20	0.945	24	0.512	13	0.02	9	2,200	9,800	3,200	14,300	21,000
K 20x24x17	0.787	20	0.945	24	0.669	17	0.026	12	2,900	12,900	4,600	20,400	21,000
K 20x26x12	0.787	20	1.024	26	0.472	12	0.024	11	3,000	13,400	3,650	16,200	21,000
K 20x26x13	0.787	20	1.024	26	0.512	13	0.026	12	3,250	14,400	4,000	17,900	21,000
K 20x26x17	0.787	20	1.024	26	0.669	17	0.035	16	4,300	19,200	5,800	26,000	21,000
K 20x26x20	0.787	20	1.024	26	0.787	20	0.042	19	4,750	21,100	6,500	29,000	21,000
K 20x28x16	0.787	20	1.102	28	0.630	16	0.044	20	4,450	19,800	5,000	22,400	20,000
K 20x28x20	0.787	20	1.102	28	0.787	20	0.06	27	5,400	23,900	6,400	28,500	20,000
K 20x28x25	0.787	20	1.102	28	0.984	25	0.071	32	6,900	30,500	8,800	39,000	20,000
K 20x30x30	0.787	20	1.181	30	1.181	30	0.108	49	8,000	35,500	9,300	41,500	20,000
C131608	0.813	20.6	1.000	25.4	0.500	12.7	0.023	10.2	2,800	12,500	3,950	17,600	21,000
C131714	0.813	20.6	1.063	27.0	0.875	22.2	0.054	24.7	5,100	22,600	7,000	31,000	21,000
K 21x25x13	0.827	21	0.984	25	0.512	13	0.02	9	2,270	10,100	3,400	15,100	21,000
K 21x25x17	0.827	21	0.984	25	0.669	17	0.022	10	3,000	13,300	4,850	21,500	21,000
K 22x26x10	0.866	22	1.024	26	0.394	10	0.017	7.5	2,050	9,100	3,000	13,400	20,000
K 22x26x13	0.866	22	1.024	26	0.512	13	0.021	9.5	2,340	10,400	3,600	15,900	20,000
K 22x26x17	0.866	22	1.024	26	0.669	17	0.026	12	3,100	13,700	5,100	22,700	20,000
K 22x28x17	0.866	22	1.102	28	0.669	17	0.04	18	4,350	19,400	6,100	27,000	20,000
K 22x29x16	0.866	22	1.142	29	0.630	16	0.035	16	4,500	20,000	5,700	25,500	19,000
K 22x30x15 TN	0.866	22	1.181	30	0.591	15	0.04	18	4,500	20,100	5,300	23,400	19,000
K 22x32x24	0.866	22	1.260	32	0.945	24	0.095	43	7,600	34,000	9,000	40,000	18,000
C141816	0.875	22.2	1.125	28.6	1.000	25.4	0.066	30.1	6,500	29,000	9,800	43,500	19,000
K 23x35x16 TN	0.906	23	1.378	35	0.630	16	0.064	29	5,500	24,500	5,400	23,900	17,000
K 24x28x10	0.945	24	1.102	28	0.394	10	0.019	8.5	2,160	9,600	3,350	14,800	19,000
K 24x28x13	0.945	24	1.102	28	0.512	13	0.022	10	2,470	11,000	3,950	17,600	19,000
K 24x28x17	0.945	24	1.102	28	0.669	17	0.029	13	3,250	14,500	5,600	25,000	19,000

# Drawn Cup Needle Roller Bearings

## NEEDLE ROLLERS AND CAGE ASSEMBLY



- Inch and Metric Series
- Needle Rollers Retained by the cage
- Anti-rust Preservative Oil
- Part Number with “ZW” mean double row



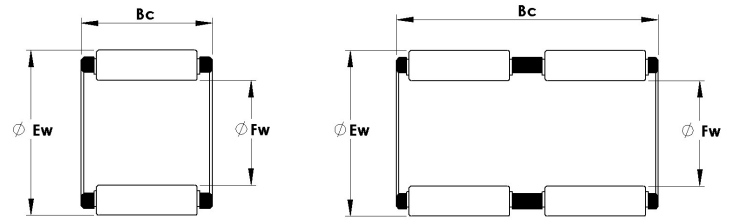
Part Number	Shaft F <sub>w</sub>		OD E <sub>w</sub>		Width B <sub>c</sub>		Weight		Dyn. Cap. C		Stat. Cap. C <sub>0</sub>		Speed Limit
	Inch	mm	Inch	mm	Inch	mm	lb	g	lbf	N	lbf	N	rpm
K 24x29x13	0.945	24	1.142	29	0.512	13	0.031	14	3,050	13,600	4,450	19,700	18,000
K 24x30x17	0.945	24	1.181	30	0.669	17	0.042	19	4,400	19,500	6,200	27,500	18,000
K 24x30x31 ZW TN	0.945	24	1.181	30	1.221	31	0.071	32	6,200	27,500	9,800	43,500	18,000
K 25x29x10	0.984	25	1.142	29	0.394	10	0.019	8.5	2,230	9,900	3,450	15,400	18,000
K 25x29x13	0.984	25	1.142	29	0.512	13	0.024	11	2,550	11,300	4,150	18,400	18,000
K 25x29x17	0.984	25	1.142	29	0.669	17	0.031	14	3,350	14,900	5,800	26,000	18,000
K 25x30x13	0.984	25	1.181	30	0.512	13	0.024	11	3,300	14,600	4,900	21,800	18,000
K 25x30x17	0.984	25	1.181	30	0.669	17	0.035	16	4,200	18,700	6,700	30,000	18,000
K 25x30x20	0.984	25	1.181	30	0.787	20	0.04	18	4,900	21,700	8,200	36,500	18,000
K 25x30x26 ZW TN	0.984	25	1.181	30	1.024	26	0.042	19	4,800	21,400	8,000	35,500	18,000
K 25x31x17	0.984	25	1.221	31	0.669	17	0.042	19	4,400	19,600	6,400	28,500	18,000
K 25x31x21	0.984	25	1.221	31	0.827	21	0.044	20	5,600	24,700	8,500	38,000	18,000
K 25x32x16	0.984	25	1.260	32	0.630	16	0.046	21	4,700	21,000	6,300	28,000	17,000
K 25x33x20	0.984	25	1.299	33	0.787	20	0.073	33	6,400	28,500	8,500	38,000	17,000
K 25x33x24	0.984	25	1.299	33	0.945	24	0.086	39	7,600	34,000	10,600	47,000	17,000
K 25x35x30	0.984	25	1.378	35	1.181	30	0.143	65	10,600	47,000	13,900	62,000	16,000
C161908	1.000	25.4	1.188	30.2	0.500	12.7	0.027	12.4	3,050	13,700	4,700	20,900	18,000
C162112	1.000	25.4	1.313	33.3	0.750	19.1	0.072	32.6	6,400	28,500	8,500	38,000	17,000
C162116	1.000	25.4	1.313	33.3	1.000	25.4	0.096	43.5	8,200	36,500	11,900	53,000	17,000
K 26x30x10	1.024	26	1.181	30	0.394	10	0.015	7	2,270	10,100	3,600	16,100	18,000
K 26x30x13	1.024	26	1.181	30	0.512	13	0.024	11	2,600	11,600	4,300	19,200	18,000
K 26x30x17	1.024	26	1.181	30	0.669	17	0.033	15	3,400	15,200	6,200	27,500	18,000
K 26x30x22 ZW TN	1.024	26	1.181	30	0.866	22	0.026	12	3,550	15,700	6,400	28,500	18,000
K 28x33x13	1.102	28	1.299	33	0.512	13	0.029	13	3,450	15,300	5,400	24,200	16,000
K 28x33x17	1.102	28	1.299	33	0.669	17	0.037	17	4,450	19,700	7,500	33,500	16,000
K 28x33x27 TN	1.102	28	1.299	33	1.063	27	0.042	19	5,200	23,300	9,200	41,000	16,000

# Drawn Cup Needle Roller Bearings

## NEEDLE ROLLERS AND CAGE ASSEMBLY



- Inch and Metric Series
- Needle Rollers Retained by the cage
- Anti-rust Preservative Oil
- Part Number with “ZW” mean double row



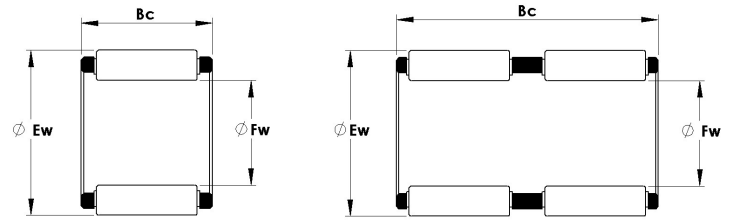
Part Number	Shaft F <sub>w</sub>		OD E <sub>w</sub>		Width B <sub>c</sub>		Weight		Dyn. Cap. C		Stat. Cap. C <sub>0</sub>		Speed Limit
	Inch	mm	Inch	mm	Inch	mm	lb	g	lbf	N	lbf	N	rpm
K 28x34x17	1.102	28	1.339	34	0.669	17	0.053	24	4,900	21,800	7,500	33,500	16,000
K 28x35x16	1.102	28	1.378	35	0.630	16	0.053	24	4,850	21,500	6,600	29,500	16,000
K 28x35x18	1.102	28	1.378	35	0.709	18	0.06	27	5,400	24,000	7,600	34,000	16,000
K 28x35x27	1.102	28	1.378	35	1.063	27	0.09	41	7,900	35,000	12,400	55,000	16,000
K 28x40x18	1.102	28	1.575	40	0.709	18	0.11	50	7,500	33,500	8,300	37,000	14,000
K 28x40x25	1.102	28	1.575	40	0.984	25	0.154	70	10,200	45,500	12,400	55,000	14,000
C182212 1.125	1.125	28.6	1.375	34.9	0.750	19.1	0.062	28.2	5,000	22,200	7,400	33,000	15,000
C182416 1.125	1.125	28.6	1.500	38.1	1.000	25.4	0.131	59.3	9,700	43,000	13,400	60,000	15,000
C182420 1.125	1.125	28.6	1.500	38.1	1.250	31.8	0.163	74.1	11,700	52,000	17,100	76,000	15,000
K 30x34x13	1.181	30	1.339	34	0.512	13	0.031	14	2,750	12,300	4,900	21,700	15,000
K 30x35x13	1.181	30	1.378	35	0.512	13	0.031	14	3,500	15,600	5,700	25,500	15,000
K 30x35x17	1.181	30	1.378	35	0.669	17	0.042	19	4,400	19,600	7,600	34,000	15,000
K 30x35x26 ZW TN	1.181	30	1.378	35	1.024	26	0.079	36	5,400	24,000	9,900	44,000	15,000
K 30x35x27	1.181	30	1.378	35	1.063	27	0.066	30	6,900	30,500	13,300	59,000	15,000
K 30x37x16	1.181	30	1.457	37	0.630	16	0.06	27	5,200	23,100	7,500	33,500	15,000
K 30x37x18	1.181	30	1.457	37	0.709	18	0.066	30	5,800	26,000	8,700	38,500	15,000
K 30x40x18	1.181	30	1.575	40	0.709	18	0.106	48	7,200	32,000	9,000	40,000	14,000
K 30x40x30	1.181	30	1.575	40	1.181	30	0.161	73	11,000	49,000	15,500	69,000	15,000
C202412 (F88312)	1.250	31.8	1.500	38.1	0.750	19.1	0.068	31.1	5,800	26,000	9,600	42,500	15,000
C202612	1.250	31.8	1.625	41.3	0.750	19.1	0.107	48.7	7,800	34,500	10,500	46,500	13,000
C202616	1.250	31.8	1.625	41.3	1.000	25.4	0.143	64.9	10,100	45,000	14,600	65,000	13,000
C202624	1.250	31.8	1.625	41.3	1.500	38.1	0.215	97.4	14,400	64,000	22,700	101,000	13,000
C202812	1.250	31.8	1.750	44.5	0.750	19.1	0.149	67.8	10,200	45,500	12,400	55,000	13,000
K 32x37x13	1.260	32	1.457	37	0.512	13	0.04	18	3,500	15,500	5,700	25,500	14,000
K 32x37x17	1.260	32	1.457	37	0.669	17	0.042	19	4,450	19,900	8,000	35,500	14,000
K 32x37x27	1.260	32	1.457	37	1.063	27	0.066	30	6,700	30,000	13,500	60,000	14,000

# Drawn Cup Needle Roller Bearings

## NEEDLE ROLLERS AND CAGE ASSEMBLY



- Inch and Metric Series
- Needle Rollers Retained by the cage
- Anti-rust Preservative Oil
- Part Number with “ZW” mean double row



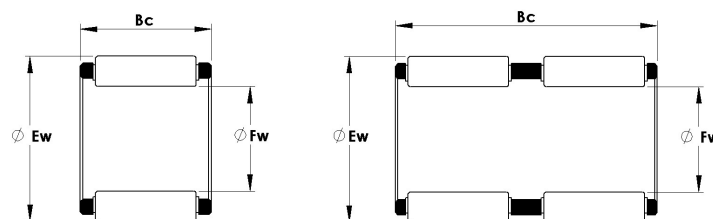
Part Number	Shaft F <sub>w</sub>		OD E <sub>w</sub>		Width B <sub>c</sub>		Weight		Dyn. Cap. C		Stat. Cap. C <sub>0</sub>		Speed Limit
	Inch	mm	Inch	mm	Inch	mm	lb	g	lbf	N	lbf	N	rpm
K 32x37x28 TN	1.260	32	1.457	37	1.102	28	0.046	21	5,300	23,600	9,800	43,500	14,000
K 32x38x16	1.260	32	1.496	38	0.630	16	0.055	25	4,850	21,500	7,800	34,500	14,000
K 32x38x20	1.260	32	1.496	38	0.787	20	0.066	30	6,000	26,500	10,100	45,000	14,000
K 32x38x26	1.260	32	1.496	38	1.024	26	0.084	38	7,500	33,500	13,700	61,000	14,000
K 32x39x16	1.260	32	1.535	39	0.630	16	0.082	37	5,400	23,800	8,000	35,500	14,000
K 32x39x18	1.260	32	1.535	39	0.709	18	0.068	31	6,000	26,500	9,200	41,000	14,000
K 32x40x25	1.260	32	1.575	40	0.984	25	0.108	49	8,400	37,500	13,000	58,000	14,000
K 32x40x36	1.260	32	1.575	40	1.417	36	0.161	73	12,100	54,000	20,700	92,000	14,000
K 32x40x42 ZW TN	1.260	32	1.575	40	1.654	42	0.17	77	11,200	50,000	18,900	84,000	14,000
K 32x46x32	1.260	32	1.811	46	1.260	32	0.262	119	14,800	66,000	18,700	83,000	13,000
C222820	1.375	34.9	1.750	44.5	1.250	31.8	0.195	88.2	12,600	56,000	19,800	88,000	12,000
K 35x40x13	1.378	35	1.575	40	0.512	13	0.042	19	3,650	16,200	6,300	28,000	13,000
K 35x40x17	1.378	35	1.575	40	0.669	17	0.046	21	4,700	20,800	8,700	38,500	13,000
K 35x40x25	1.378	35	1.575	40	0.984	25	0.068	31	6,600	29,500	13,500	60,000	13,000
K 35x40x27 TN	1.378	35	1.575	40	1.063	27	0.086	39	5,600	25,000	10,900	48,500	13,000
K 35x40x30 ZW TN	1.378	35	1.575	40	1.181	30	0.106	48	5,700	25,500	11,200	50,000	13,000
K 35x40x32 ZW TN	1.378	35	1.575	40	1.260	32	0.11	50	7,200	32,000	14,800	66,000	13,000
K 35x42x16	1.378	35	1.654	42	0.630	16	0.075	34	5,500	24,400	8,400	37,500	13,000
K 35x42x18	1.378	35	1.654	42	0.709	18	0.075	34	6,200	27,500	9,700	43,000	13,000
K 35x42x20	1.378	35	1.654	42	0.787	20	0.082	37	6,700	30,000	11,000	49,000	13,000
K 35x42x30	1.378	35	1.654	42	1.181	30	0.148	67	8,800	39,000	15,300	68,000	13,000
K 35x43x18	1.378	35	1.693	43	0.709	18	0.084	38	6,400	28,500	9,400	42,000	13,000
K 35x45x20	1.378	35	1.772	45	0.787	20	0.123	56	8,300	37,000	11,200	50,000	12,000
K 35x45x30	1.378	35	1.772	45	1.181	30	0.176	80	11,900	53,000	17,800	79,000	12,000
K 35x45x49	1.378	35	1.772	45	1.929	49	0.304	138	18,400	82,000	31,500	139,000	12,000
K 36x42x16	1.417	36	1.654	42	0.630	16	0.064	29	5,500	24,600	9,600	42,500	13,000

# Drawn Cup Needle Roller Bearings

## NEEDLE ROLLERS AND CAGE ASSEMBLY



- Inch and Metric Series
- Needle Rollers Retained by the cage
- Anti-rust Preservative Oil
- Part Number with “ZW” mean double row



Part Number	Shaft F <sub>w</sub>		OD E <sub>w</sub>		Width B <sub>c</sub>		Weight		Dyn. Cap. C		Stat. Cap. C <sub>0</sub>		Speed Limit
	Inch	mm	Inch	mm	Inch	mm	lb	g	lbf	N	lbf	N	rpm
K 37x42x17	1.457	37	1.654	42	0.669	17	0.049	22	5,000	22,400	9,700	43,000	12,000
K 37x42x27	1.457	37	1.654	42	1.063	27	0.09	41	7,200	32,000	15,300	68,000	12,000
K 37x45x26	1.457	37	1.772	45	1.024	26	0.135	61	9,900	44,000	16,600	74,000	12,000
K 38x43x17	1.496	38	1.693	43	0.669	17	0.064	29	4,600	20,500	8,700	38,500	12,000
K 38x43x27	1.496	38	1.693	43	1.063	27	0.095	43	7,100	31,500	15,300	68,000	12,000
K 38x46x20	1.496	38	1.811	46	0.787	20	0.104	47	8,000	35,500	12,800	57,000	12,000
K 38x46x32	1.496	38	1.811	46	1.260	32	0.168	76	12,400	55,000	22,300	99,000	12,000
C243016	1.500	38.1	1.875	47.625	1.000	25.4	0.168	76.2	10,800	48,000	16,700	74,000	11,000
C243020	1.500	38.1	1.875	47.625	1.250	31.8	0.21	95.3	13,000	58,000	21,300	95,000	11,000
C243024	1.500	38.1	1.875	47.625	1.500	38.1	0.252	114.3	15,300	68,000	26,000	116,000	11,000
K 39x44x24	1.535	39	1.732	44	0.945	24	0.066	30	6,400	28,500	13,300	59,000	12,000
K 39x44x26 ZW TN	1.535	39	1.732	44	1.024	26	0.099	45	6,200	27,500	12,600	56,000	12,000
K 40x44x13	1.575	40	1.732	44	0.512	13	0.04	18	3,150	14,000	6,400	28,500	12,000
K 40x45x13	1.575	40	1.772	45	0.512	13	0.049	22	3,950	17,600	7,300	32,500	12,000
K 40x45x17	1.575	40	1.772	45	0.669	17	0.068	31	4,800	21,400	9,300	41,500	12,000
K 40x45x21	1.575	40	1.772	45	0.827	21	0.073	33	5,600	24,900	11,200	50,000	12,000
K 40x45x27	1.575	40	1.772	45	1.063	27	0.101	46	7,400	33,000	16,400	73,000	12,000
K 40x45x30 ZW TN	1.575	40	1.772	45	1.181	30	0.128	58	6,000	26,500	12,100	54,000	12,000
K 40x46x17	1.575	40	1.811	46	0.669	17	0.062	28	5,600	25,000	10,100	45,000	11,000
K 40x47x18	1.575	40	1.850	47	0.709	18	0.086	39	6,600	29,500	11,200	50,000	11,000
K 40x47x20	1.575	40	1.850	47	0.787	20	0.093	42	7,300	32,500	12,800	57,000	11,000
K 40x48x20	1.575	40	1.890	48	0.787	20	0.108	49	8,100	36,000	13,300	59,000	11,000
K 42x47x13	1.654	42	1.850	47	0.512	13	0.04	18	4,000	17,800	7,500	33,500	11,000
K 42x47x17	1.654	42	1.850	47	0.669	17	0.071	32	4,900	21,700	9,700	43,000	11,000
K 42x47x25 TN	1.654	42	1.850	47	0.984	25	0.057	26	6,200	27,500	13,000	58,000	11,000
K 42x47x27	1.654	42	1.850	47	1.063	27	0.108	49	7,500	33,500	16,900	75,000	11,000

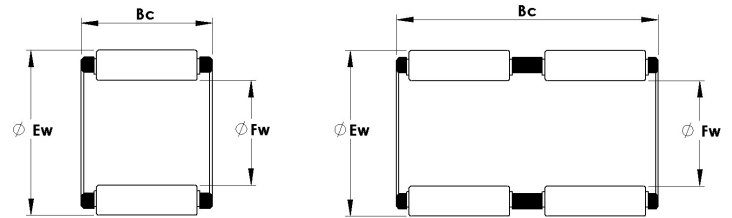


# Drawn Cup Needle Roller Bearings

## NEEDLE ROLLERS AND CAGE ASSEMBLY



- Inch and Metric Series
- Needle Rollers Retained by the cage
- Anti-rust Preservative Oil
- Part Number with “ZW” mean double row



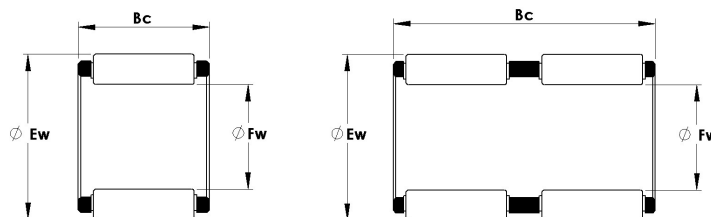
Part Number	Shaft F <sub>w</sub>		OD E <sub>w</sub>		Width B <sub>c</sub>		Weight		Dyn. Cap. C		Stat. Cap. C <sub>0</sub>		Speed Limit
	Inch	mm	Inch	mm	Inch	mm	lb	g	lbf	N	lbf	N	rpm
K 42x47x30 ZW TN	1.654	42	1.850	47	1.181	30	0.119	54	7,500	33,500	17,100	76,000	11,000
K 42x50x18	1.654	42	1.969	50	0.709	18	0.117	53	7,100	31,500	11,200	50,000	11,000
K 42x50x20	1.654	42	1.969	50	0.787	20	0.117	53	7,900	35,000	12,800	57,000	11,000
K 43x48x17	1.693	43	1.890	48	0.669	17	0.066	30	4,850	21,600	9,700	43,000	11,000
K 43x48x27	1.693	43	1.890	48	1.063	27	0.11	50	7,500	33,500	16,900	75,000	11,000
K 43x50x18	1.693	43	1.969	50	0.709	18	0.09	41	7,000	31,000	12,100	54,000	11,000
C283412	1.750	44.5	2.125	54.0	0.750	19.1	0.145	65.6	9,100	40,500	13,900	62,000	10,000
C283416	1.750	44.5	2.125	54.0	1.000	25.4	0.193	87.5	11,900	53,000	19,800	88,000	10,000
C283424	1.750	44.5	2.125	54.0	1.500	38.1	0.289	131.3	16,900	75,000	31,000	138,000	10,000
K 45x49x19	1.772	45	1.929	49	0.748	19	0.06	27	4,050	18,000	9,100	40,500	10,000
K 45x50x17	1.772	45	1.969	50	0.669	17	0.075	34	5,100	22,500	10,300	46,000	10,000
K 45x50x27	1.772	45	1.969	50	1.063	27	0.112	51	7,800	34,500	18,000	80,000	10,000
K 45x50x32 TN	1.772	45	1.969	50	1.260	32	0.099	45	8,700	38,500	20,500	91,000	10,000
K 45x51x36 ZW TN	1.772	45	2.008	51	1.417	36	0.187	85	10,100	45,000	22,300	99,000	10,000
K 45x52x18	1.772	45	2.047	52	0.709	18	0.093	42	7,100	31,500	12,800	57,000	10,000
K 45x52x21 TN	1.772	45	2.047	52	0.827	21	0.075	34	6,700	30,000	11,700	52,000	10,000
K 45x53x20	1.772	45	2.087	53	0.787	20	0.121	55	8,800	39,000	15,100	67,000	10,000
K 45x53x21	1.772	45	2.087	53	0.827	21	0.132	60	8,700	38,500	15,100	67,000	10,000
K 45x53x22	1.772	45	2.087	53	0.866	22	0.132	60	9,600	42,500	17,100	76,000	10,000
K 45x53x28	1.772	45	2.087	53	1.102	28	0.179	81	11,700	52,000	22,000	98,000	10,000
K 45x59x18 TN	1.772	45	2.323	59	0.709	18	0.159	72	9,900	44,000	12,100	54,000	9,500
K 45x59x32	1.772	45	2.323	59	1.260	32	0.326	148	16,400	73,000	22,900	102,000	9,500
K 45x59x36	1.772	45	2.323	59	1.417	36	0.351	159	17,100	76,000	24,500	109,000	9,500
K 47x52x17	1.850	47	2.047	52	0.669	17	0.077	35	5,200	23,300	11,000	49,000	10,000
K 47x52x27	1.850	47	2.047	52	1.063	27	0.112	51	7,900	35,000	18,700	83,000	10,000
K 47x53x25	1.850	47	2.087	53	0.984	25	0.112	51	8,700	38,500	18,400	82,000	10,000

# Drawn Cup Needle Roller Bearings

## NEEDLE ROLLERS AND CAGE ASSEMBLY



- Inch and Metric Series
- Needle Rollers Retained by the cage
- Anti-rust Preservative Oil
- Part Number with “ZW” mean double row



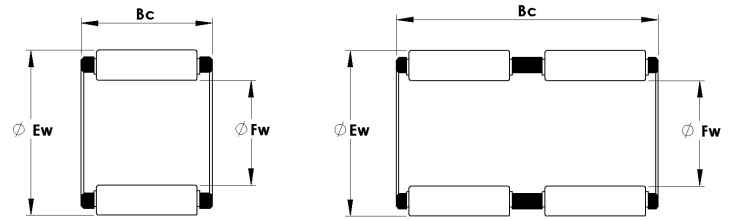
Part Number	Shaft F <sub>w</sub>		OD E <sub>w</sub>		Width B <sub>c</sub>		Weight		Dyn. Cap. C		Stat. Cap. C <sub>0</sub>		Speed Limit
	Inch	mm	Inch	mm	Inch	mm	lb	g	lbf	N	lbf	N	rpm
K 47x55x28	1.850	47	2.165	55	1.102	28	0.176	80	11,900	53,000	22,700	101,000	9,500
K 48x54x19	1.890	48	2.126	54	0.748	19	0.101	46	6,900	30,500	13,700	61,000	9,500
K 50x55x13.5	1.969	50	2.165	55	0.532	13.5	0.066	30	4,100	18,200	8,200	36,500	9,500
K 50x55x17	1.969	50	2.165	55	0.669	17	0.077	35	4,950	22,100	10,600	47,000	9,500
K 50x55x20	1.969	50	2.165	55	0.787	20	0.095	43	6,000	26,500	13,500	60,000	9,500
K 50x55x30	1.969	50	2.165	55	1.181	30	0.143	65	8,800	39,000	21,800	97,000	9,500
K 50x57x18	1.969	50	2.244	57	0.709	18	0.104	47	7,500	33,500	14,200	63,000	9,000
K 50x58x20	1.969	50	2.284	58	0.787	20	0.165	75	8,000	35,500	13,900	62,000	9,000
K 50x58x25	1.969	50	2.284	58	0.984	25	0.198	90	9,900	44,000	18,200	81,000	9,000
K 52x57x12	2.047	52	2.244	57	0.472	12	0.053	24	4,050	18,000	8,200	36,500	9,000
K 55x60x20	2.165	55	2.362	60	0.787	20	0.088	40	6,400	28,500	14,800	66,000	8,500
K 55x60x27	2.165	55	2.362	60	1.063	27	0.132	60	8,500	38,000	21,800	97,000	8,500
K 55x60x30	2.165	55	2.362	60	1.181	30	0.157	71	9,200	41,000	24,300	108,000	8,500
K 55x60x40 ZW TN	2.165	55	2.362	60	1.575	40	0.218	99	10,900	48,500	30,000	133,000	8,500
K 55x62x18	2.165	55	2.441	62	0.709	18	0.115	52	8,000	35,500	15,700	70,000	8,500
K 55x63x15	2.165	55	2.480	63	0.591	15	0.117	53	5,600	25,000	9,200	41,000	8,500
K 55x63x20	2.165	55	2.480	63	0.787	20	0.148	67	9,000	40,000	16,600	74,000	8,500
K 55x63x25	2.165	55	2.480	63	0.984	25	0.176	80	11,200	50,000	22,500	100,000	8,500
K 55x63x32	2.165	55	2.480	63	1.260	32	0.225	102	13,900	62,000	29,000	130,000	8,500
K 56x61x20	2.205	56	2.402	61	0.787	20	0.099	45	6,200	27,500	14,600	65,000	8,500
C364216	2.250	57.2	2.625	66.7	1.000	25.4	0.243	110.1	13,500	60,000	25,000	112,000	7,900
C364220	2.250	57.2	2.625	66.7	1.250	31.8	0.304	137.6	14,400	64,000	27,500	122,000	7,900
C364224	2.250	57.2	2.625	66.7	1.500	38.1	0.364	165.2	17,500	78,000	35,500	157,000	7,900
K 58x63x17	2.284	58	2.480	63	0.669	17	0.095	43	6,100	27,000	14,400	64,000	8,000
K 58x64x19	2.284	58	2.520	64	0.748	19	0.101	46	7,900	35,000	17,500	78,000	8,000
K 58x65x18	2.284	58	2.559	65	0.709	18	0.115	52	7,900	35,000	15,700	70,000	8,000

# Drawn Cup Needle Roller Bearings

## NEEDLE ROLLERS AND CAGE ASSEMBLY



- Inch and Metric Series
- Needle Rollers Retained by the cage
- Anti-rust Preservative Oil
- Part Number with “ZW” mean double row



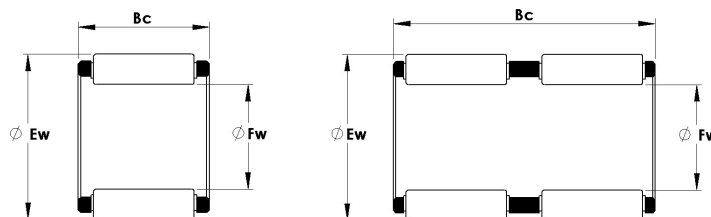
Part Number	Shaft F <sub>w</sub>		OD E <sub>w</sub>		Width B <sub>c</sub>		Weight		Dyn. Cap. C		Stat. Cap. C <sub>0</sub>		Speed Limit
	Inch	mm	Inch	mm	Inch	mm	lb	g	lbf	N	lbf	N	rpm
K 58x65x36 ZW TN	2.284	58	2.559	65	1.417	36	0.28	127	11,000	49,000	24,100	107,000	8,000
K 60x65x20	2.362	60	2.559	65	0.787	20	0.115	52	6,600	29,500	16,200	72,000	8,000
K 60x65x30	2.362	60	2.559	65	1.181	30	0.17	77	9,600	42,500	26,000	116,000	8,000
K 60x66x33 ZW TN	2.362	60	2.598	66	1.299	33	0.229	104	10,300	46,000	25,000	112,000	8,000
K 60x66x40 ZW TN	2.362	60	2.598	66	1.575	40	0.256	116	13,000	58,000	34,000	151,000	8,000
K 60x68x20	2.362	60	2.677	68	0.787	20	0.157	71	9,800	43,500	19,100	85,000	7,500
K 60x68x23	2.362	60	2.677	68	0.906	23	0.207	94	11,100	49,500	22,700	101,000	7,500
K 60x68x25	2.362	60	2.677	68	0.984	25	0.196	89	11,900	53,000	25,000	111,000	7,500
K 60x68x27	2.362	60	2.677	68	1.063	27	0.251	114	11,100	49,500	22,500	100,000	7,500
K 60x68x30 ZW TN	2.362	60	2.677	68	1.181	30	0.284	129	10,000	44,500	19,800	88,000	7,500
K 60x68x34 ZW TN	2.362	60	2.677	68	1.339	34	0.309	140	10,800	48,000	21,600	96,000	7,500
K 60x75x42	2.362	60	2.953	75	1.654	42	0.529	240	26,500	118,000	44,500	197,000	7,500
K 62x70x40 ZW TN	2.441	62	2.756	70	1.575	40	0.384	174	14,800	66,000	33,000	146,000	7,500
K 63x70x21	2.480	63	2.756	70	0.827	21	0.146	66	10,200	45,500	22,700	101,000	7,500
C404616	2.500	63.5	2.875	73.0	1.000	25.4	0.268	121.4	14,000	62,000	27,000	121,000	7,200
C404620	2.500	63.5	2.875	73.0	1.250	31.8	0.335	151.8	16,600	74,000	34,000	151,000	7,200
C404624	2.500	63.5	2.875	73.0	1.500	38.1	0.402	182.1	19,600	87,000	42,000	186,000	7,200
K 64x70x16	2.520	64	2.756	70	0.630	16	0.117	53	6,300	28,000	13,500	60,000	7,500
K 65x70x20	2.559	65	2.756	70	0.787	20	0.123	56	6,900	30,500	17,300	77,000	7,500
K 65x70x30	2.559	65	2.756	70	1.181	30	0.183	83	9,900	44,000	28,000	124,000	7,500
K 65x73x23	2.559	65	2.874	73	0.906	23	0.238	108	10,300	46,000	21,100	94,000	7,000
K 65x73x30	2.559	65	2.874	73	1.181	30	0.311	141	12,800	57,000	27,500	123,000	7,000
K 68x74x20	2.677	68	2.913	74	0.787	20	0.157	71	8,000	35,500	18,900	84,000	7,000
K 68x74x30	2.677	68	2.913	74	1.181	30	0.221	100	10,500	46,500	26,500	118,000	7,000
K 68x74x35 ZW TN	2.677	68	2.913	74	1.378	35	0.265	120	10,900	48,500	28,000	125,000	7,000
K 68x75x32 ZW TN	2.677	68	2.953	75	1.260	32	0.291	132	12,100	54,000	29,000	128,000	7,000

# Drawn Cup Needle Roller Bearings

## NEEDLE ROLLERS AND CAGE ASSEMBLY



- Inch and Metric Series
- Needle Rollers Retained by the cage
- Anti-rust Preservative Oil
- Part Number with “ZW” mean double row



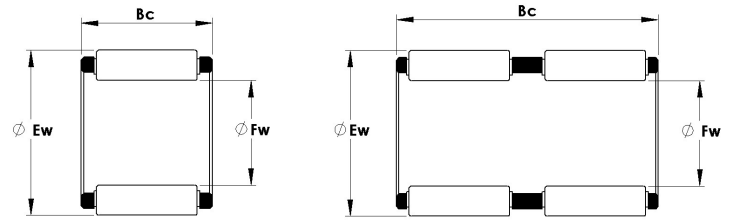
Part Number	Shaft F <sub>w</sub>		OD E <sub>w</sub>		Width B <sub>c</sub>		Weight		Dyn. Cap. C		Stat. Cap. C <sub>0</sub>		Speed Limit
	Inch	mm	Inch	mm	Inch	mm	lb	g	lbf	N	lbf	N	rpm
K 70x76x20	2.756	70	2.992	76	0.787	20	0.157	71	8,100	36,000	19,300	86,000	6,500
K 70x76x30	2.756	70	2.992	76	1.181	30	0.243	110	11,700	52,000	31,500	139,000	6,500
K 70x78x25	2.756	70	3.071	78	0.984	25	0.273	124	11,700	52,000	25,000	112,000	6,500
K 70x78x30	2.756	70	3.071	78	1.181	30	0.326	148	13,500	60,000	30,500	135,000	6,500
K 70x78x46 ZW TN	2.756	70	3.071	78	1.811	46	0.496	225	17,500	78,000	42,500	189,000	6,500
K 70x80x30	2.756	70	3.150	80	1.181	30	0.331	150	16,400	73,000	33,500	148,000	6,500
K 72x80x20	2.835	72	3.150	80	0.787	20	0.216	98	9,300	41,500	19,100	85,000	6,500
K 73x79x20	2.874	73	3.110	79	0.787	20	0.165	75	8,300	37,000	20,200	90,000	6,500
K 75x81x20	2.953	75	3.189	81	0.787	20	0.174	79	8,400	37,500	21,100	94,000	6,500
K 75x81x30	2.953	75	3.189	81	1.181	30	0.251	114	11,700	52,000	32,000	143,000	6,500
K 75x83x23	2.953	75	3.268	83	0.906	23	0.273	124	11,200	50,000	24,500	109,000	6,000
K 75x83x30	2.953	75	3.268	83	1.181	30	0.324	147	13,900	62,000	32,000	143,000	6,000
K 75x83x35 ZW TN	2.953	75	3.268	83	1.378	35	0.401	182	14,200	63,000	33,000	147,000	6,000
K 75x83x40 ZW TN	2.953	75	3.268	83	1.575	40	0.465	211	16,400	73,000	40,000	177,000	6,000
C485416	3.000	76.2	3.375	85.7	1.000	25.4	0.318	144	14,800	66,000	31,500	140,000	6,100
C485424	3.000	76.2	3.375	85.7	1.500	38.1	0.476	216	21,100	94,000	49,000	219,000	6,100
K 80x86x20	3.150	80	3.386	86	0.787	20	0.132	60	8,700	38,500	22,000	98,000	6,000
K 80x86x30	3.150	80	3.386	86	1.181	30	0.174	79	12,600	56,000	35,500	159,000	6,000
K 80x88x30	3.150	80	3.465	88	1.181	30	0.304	138	16,200	72,000	40,000	179,000	6,000
K 80x88x40 ZW TN	3.150	80	3.465	88	1.575	40	0.501	227	17,100	76,000	43,000	192,000	6,000
K 80x88x46 ZW TN	3.150	80	3.465	88	1.811	46	0.573	260	19,800	88,000	52,000	231,000	6,000
K 85x92x20	3.347	85	3.622	92	0.787	20	0.225	102	10,000	44,500	24,300	108,000	5,500
K 90x97x20	3.543	90	3.819	97	0.787	20	0.24	109	10,100	45,000	25,500	113,000	5,000
K 90x98x27	3.543	90	3.858	98	1.063	27	0.331	150	13,700	61,000	33,500	150,000	5,000
K 90x98x30	3.543	90	3.858	98	1.181	30	0.379	172	15,300	68,000	38,500	172,000	5,000
K 95x103x30	3.740	95	4.055	103	1.181	30	0.364	165	15,500	69,000	40,500	180,000	4,900

# Drawn Cup Needle Roller Bearings

## NEEDLE ROLLERS AND CAGE ASSEMBLY



- Inch and Metric Series
- Needle Rollers Retained by the cage
- Anti-rust Preservative Oil
- Part Number with “ZW” mean double row



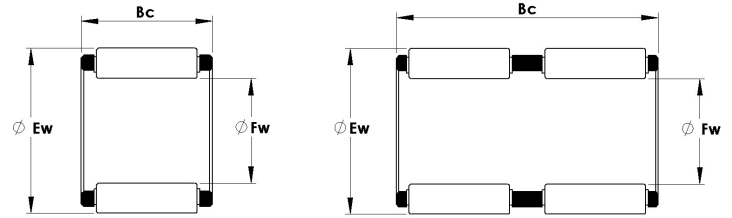
Part Number	Shaft F <sub>w</sub>		OD E <sub>w</sub>		Width B <sub>c</sub>		Weight		Dyn. Cap. C		Stat. Cap. C <sub>0</sub>		Speed Limit
	Inch	mm	Inch	mm	Inch	mm	lb	g	lbf	N	lbf	N	rpm
K 95x103x40 ZW TN	3.740	95	4.055	103	1.575	40	0.587	266	18,700	83,000	51,000	228,000	4,900
K 100x107x21	3.937	100	4.213	107	0.827	21	0.265	120	10,800	48,000	28,500	127,000	4,700
K 100x108x27	3.937	100	4.252	108	1.063	27	0.408	185	12,800	57,000	32,000	143,000	4,700
K 100x108x30	3.937	100	4.252	108	1.181	30	0.397	180	16,000	71,000	42,500	188,000	4,700
C647224 4	4.000	101.6	4.500	114.3	1.500	38.1	0.847	384	27,500	122,000	62,000	275,000	4,500
K 105x112x21	4.134	105	4.409	112	0.827	21	0.284	129	10,700	47,500	28,500	127,000	4,500
K 105x113x30	4.134	105	4.449	113	1.181	30	0.476	216	16,200	72,000	44,500	197,000	4,500
K 110x117x24	4.331	110	4.606	117	0.945	24	0.379	172	12,600	56,000	35,500	158,000	4,300
K 110x118x30	4.331	110	4.646	118	1.181	30	0.478	217	17,500	78,000	49,000	219,000	4,300
K 115x123x27	4.528	115	4.843	123	1.063	27	0.441	200	14,200	63,000	38,000	170,000	4,100
K 120x127x24	4.724	120	5.000	127	0.945	24	0.364	165	13,300	59,000	39,000	174,000	4,000
K 120x127x34	4.724	120	5.000	127	1.339	34	0.49	222	18,200	81,000	58,000	260,000	4,000
K 125x133x35	4.921	125	5.236	133	1.378	35	0.606	275	19,300	86,000	58,000	260,000	3,800
K 130x137x24	5.118	130	5.394	137	0.945	24	0.375	170	13,700	61,000	42,000	186,000	3,700
K 135x143x35	5.315	135	5.630	143	1.378	35	0.662	300	20,500	91,000	65,000	290,000	3,500
K 145x153x26	5.709	145	6.024	153	1.024	26	0.578	262	16,600	74,000	51,000	225,000	3,300
K 145x153x36	5.709	145	6.024	153	1.417	36	0.662	300	22,000	98,000	73,000	325,000	3,300
K 150x160x46	5.906	150	6.299	160	1.811	46	1.257	570	33,000	147,000	106,000	470,000	3,200
K 155x163x26	6.102	155	6.417	163	1.024	26	0.584	265	16,900	75,000	53,000	236,000	3,100
K 155x163x36	6.102	155	6.417	163	1.417	36	0.785	356	22,500	100,000	76,000	340,000	3,100
K 160x170x46	6.299	160	6.693	170	1.811	46	1.213	550	34,000	152,000	115,000	510,000	3,000
K 165x173x26	6.496	165	6.811	173	1.024	26	0.706	320	18,200	81,000	60,000	265,000	2,900
K 170x180x46	6.693	170	7.087	180	1.811	46	1.323	600	35,500	158,000	121,000	540,000	2,800
K 175x183x32	6.890	175	7.205	183	1.260	32	0.882	400	22,300	99,000	79,000	350,000	2,700
K 185x195x37	7.284	185	7.677	195	1.457	37	1.338	607	29,000	128,000	96,000	425,000	2,600
K 195x205x37	7.677	195	8.071	205	1.457	37	1.367	620	30,000	133,000	101,000	450,000	2,500

# Drawn Cup Needle Roller Bearings

## NEEDLE ROLLERS AND CAGE ASSEMBLY



- Inch and Metric Series
- Needle Rollers Retained by the cage
- Anti-rust Preservative Oil
- Part Number with “ZW” mean double row



Part Number	Shaft F <sub>w</sub>		OD E <sub>w</sub>		Width B <sub>c</sub>		Weight		Dyn. Cap. C		Stat. Cap. C <sub>0</sub>		Speed Limit
	Inch	mm	Inch	mm	Inch	mm	lb	g	lbf	N	lbf	N	rpm
K 210x220x42	8.268	210	8.661	220	1.654	42	1.632	740	34,500	154,000	126,000	560,000	2,300
K 220x230x42	8.661	220	9.055	230	1.654	42	1.742	790	35,500	158,000	133,000	590,000	2,200
K 240x250x42	9.449	240	9.843	250	1.654	42	1.874	850	37,000	164,000	142,000	630,000	2,000
K 265x280x50	10.433	265	11.024	280	1.969	50	3.991	1810	57,000	255,000	193,000	860,000	1,800