

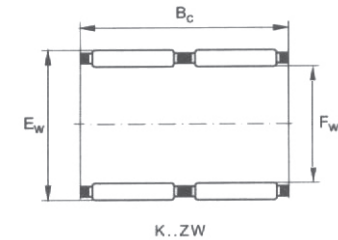
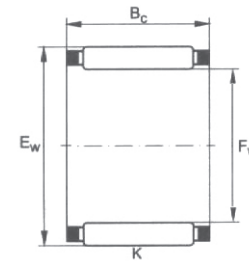
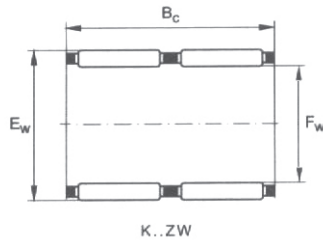
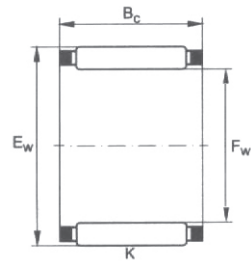
## Needle Roller Bearings

**Both metric type and inch type needle roller bearings have various design types, common types include: needle roller bearings with solid rings, drawn cup needle roller bearings, radial needles & cage assemblies, thrust needle roller bearings, thrust needle rollers & cage assemblies, etc.**

**Needle roller bearings can support large pure radial load only, can't be used to locate the bearing and bearing housing.**

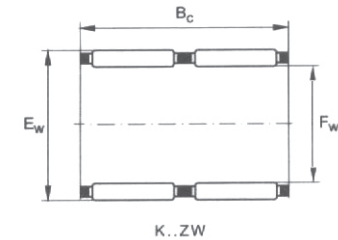
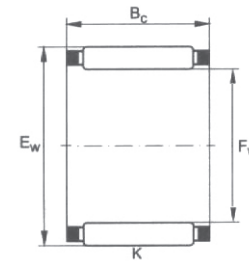
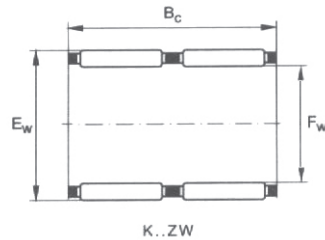
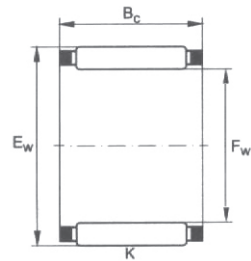
**Needle roller bearings are especially suitable for applications with limited radial installation space. Needle roller bearings are widely used in automobile, motorcycle, electric tool, textile, agricultural machinery, printing machinery, construction machinery, automatic instrument etc.**





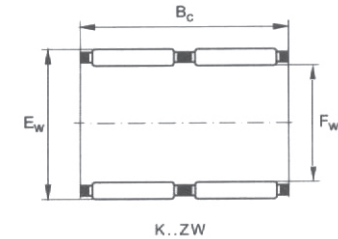
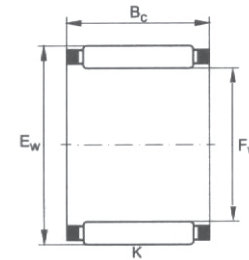
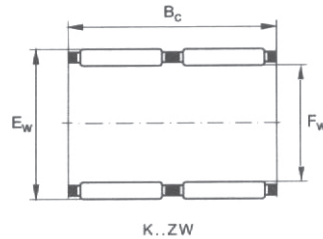
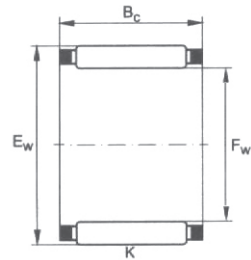
Shaft Diameter (mm)	Bearing Designations	Weight (g)	Principal Dimensions (mm)			Basic Load Ratings (kN)		Limiting Speed (rpm) Oil lubrication			Shaft Diameter (mm)	Bearing Designations	Weight (g)	Principal Dimensions (mm)			Basic Load Ratings (kN)		Limiting Speed (rpm) Oil lubrication
			Fw	Ew	Bc	Dynamic Cr	Static Cor							Fw	Ew	Bc	Dynamic Cr	Static Cor	
3	K3×5×7 TN	0.3	3	5	7	1.54	1.29	50000			14	K14×18×10	4	14	18	10	7.1	8.5	25000
	K3×5×9 TN	0.4	3	5	9	1.71	1.48	50000				K14×18×13	6.3	14	18	13	8.2	10.1	25000
	K3×6×7 TN	0.4	3	6	7	1.43	0.97	47000				K14×18×15	7.3	14	18	15	9.5	12.3	25000
4	K4×7×7 TN	0.5	4	7	7	2.33	1.84	43000			15	K14×18×17	8.1	14	18	17	10.8	14.4	25000
	K4×7×10 TN	0.7	4	7	10	2.35	1.92	43000				K14×20×12	8.2	14	20	12	10.3	10.6	25000
5	K5×8×8 TN	0.7	5	8	8	2.3	1.88	39000				K15×18×17	6.4	15	18	17	8	12.1	24000
	K5×8×10 TN	0.9	5	8	10	2.8	2.45	39000			16	K15×19×10	5.1	15	19	10	7.5	9.2	25000
6	K6×9×8 TN	0.8	6	9	8	2.56	2.24	37000				K15×19×13	7	15	19	13	8.5	10.9	24000
	K6×9×10 TN	1	6	9	10	3.3	3.1	37000				K15×19×17	8.8	15	19	17	11.3	15.6	24000
	K6×10×13 TN	1.3	6	10	13	3.5	2.8	35000				K15×20×13	7	15	20	13	9.9	11.5	24000
7	K7×9×7 TN	0.6	7	9	7	1.73	1.77	35000			17	K15×21×15	13	15	21	15	14.3	16.4	24000
	K7×10×8 TN	0.9	7	10	8	2.75	2.55	34000				K15×21×21	18.2	15	21	21	19.4	24.3	24000
	K7×10×10 TN	1.1	7	10	10	3.35	3.4	34000			18	K16×20×10	5.7	16	20	10	7.8	9.9	24000
8	K8×11×8 TN	1.1	8	11	8	3	2.9	32000				K16×20×13	7.7	16	20	13	8.9	11.8	24000
	K8×11×10 TN	1.7	8	11	10	3.83	3.95	32000				K16×20×17	9.2	16	20	17	11.7	16.8	24000
	K8×11×13 TN	1.8	8	11	13	5	5.7	32000			19	K16×22×12	10.4	16	22	12	11.5	12.5	23000
9	K8×12×10 TN	2.3	8	12	10	4.9	4.6	32000				K16×22×16	13.7	16	22	16	14.8	17.5	23000
	K9×12×10 TN	1.5	9	12	10	4.2	4.7	31000				K16×22×20	16.7	16	22	20	18.3	22.8	23000
	K9×12×13 TN	1.9	9	12	13	5.5	6.7	31000			19	K16×24×20	24.9	16	24	20	21.4	23.5	22000
10	K10×13×10 TN	1.6	10	13	10	4.5	5.25	29000				K17×21×10	5.5	17	21	10	8.1	10.6	23000
	K10×13×13 TN	2.1	10	13	13	6	7.6	29000				K17×21×13	6.5	17	21	13	10.4	14.6	23000
	K10×13×16 TN	2.2	10	13	16	6.5	7.8	29000				K17×21×17	9.5	17	21	17	12.2	17.9	23000
	K10×14×10 TN	2.9	10	14	10	7.0	7.9	29000			18	K18×22×10	6	18	22	10	8.4	11.3	22000
	K10×14×13 TN	4.3	10	14	13	8	9.1	29000				K18×22×13	8	18	22	13	9.2	12.7	22000
	K10×16×12 TN	3.7	10	16	12	7	9.3	28000				K18×22×17	11	18	22	17	12.1	18	22000
12	K12×15×10 TN	1.9	12	15	10	4.32	5.73	27000			19	K18×24×12	12	18	24	12	12.8	14.9	22000
	K12×15×13 TN	2.4	12	15	13	6	8.1	27000				K18×24×13	13	18	24	13	13.1	15.3	22000
	K12×16×13 TN	3.8	12	16	13	7.9	9.2	27000				K18×24×20	18	18	24	20	20.2	27	22000
	K12×17×13 TN	4.4	12	17	13	9.3	10	26000			19	K18×25×22	23	18	25	22	23.1	29	22000
	K12×18×12 TN	5	12	18	12	9.8	8	26000				K19×23×13	8	19	23	13	9.5	13.5	22000
												K19×23×17	11	19	23	17	12.5	19.2	22000

TN is nylon cage, the running temperature is less than 120°C



Shaft Diameter (mm)	Bearing Designations	Weight (g)	Principal Dimensions (mm)			Basic Load Ratings (KN)		Limiting Speed (rpm) Oil lubrication			Shaft Diameter (mm)	Bearing Designations	Weight (g)	Principal Dimensions (mm)			Basic Load Ratings (KN)		Limiting Speed (rpm) Oil lubrication
			Fw	Ew	Bc	Dynamic Cr	Static Cor							Fw	Ew	Bc	Dynamic Cr	Static Cor	
20	K20×24×10	6.5	20	24	10	8.9	12.6	21000			25	K25×29×10	8.5	25	29	10	9.9	15.4	18000
	K20×24×13	9	20	24	13	9.8	14.3	21000				K25×29×13	11	25	29	13	11.3	18.4	18000
	K20×24×17	12	20	24	17	12.9	20.4	21000				K25×29×17	14	25	29	17	14.9	26	18000
	K20×26×12	11	20	26	12	31.4	16.2	21000				K25×30×17	16	25	30	17	18.7	30	18000
	K20×26×13	12	20	26	13	14.4	17.9	21000				K25×30×20	18	25	30	20	21.7	36.5	18000
	K20×26×17	16	20	26	17	19.2	26	21000				K25×30×26 ZW	19	25	30	26	21.4	35.5	18000
	K20×26×20	19	20	26	20	21.1	29	21000				K25×31×17	19	25	31	17	19.6	28.5	18000
	K20×28×16	20	20	28	16	19.8	22.4	20000				K25×31×21	20	25	31	21	24.7	38	18000
	K20×28×20	27	20	28	20	23.9	28.5	20000				K25×32×16	21	25	32	16	20.8	27.5	17000
	K20×28×25	32	20	28	25	30.5	39	20000				K25×33×20	33	25	33	20	28.5	38	17000
21	K20×30×30	49	20	30	30	35.5	41.5	20000			26	K25×33×24	39	25	33	24	34	47	17000
	K21×25×13	9	21	25	13	10.1	15.1	21000				K25×35×30	65	25	35	30	47	62	16000
22	K22×26×10	7.5	22	26	10	9.1	13.4	20000				K26×30×13	11	26	30	13	11.6	19.2	18000
	K22×26×13	9.5	22	26	13	10.4	15.9	20000				K26×30×17	15	26	30	17	15.2	27.5	18000
	K22×26×17	12	22	26	17	13.7	22.7	20000				K26×30×22 ZW	12	26	30	22	15.7	28.5	18000
	K22×28×17	18	22	28	17	19.4	27	20000			28	K28×33×13	13	28	33	13	15.3	24.2	16000
	K22×29×16	16	22	29	16	20	25.5	19000				K28×33×17	17	28	33	17	19.7	33.5	16000
	K22×30×15 TN	18	22	30	15	20.1	23.4	19000				K28×34×17	24	28	34	17	21.8	33.5	16000
23	K22×32×24	43	22	32	24	34	40	18000				K28×35×16	24	28	35	16	21.5	29.5	16000
	K23×35×16 TN	29	23	35	16	24.5	23.9	17000				K28×35×18	27	28	35	18	24	34	16000
24	K24×28×10	8.5	24	28	10	9.6	14.8	19000			30	K28×40×25	70	28	40	25	45.5	55	14000
	K24×28×13	10	24	28	13	11	17.6	19000				K30×34×13	14	30	34	13	12.3	21.7	15000
	K24×28×17	13	24	28	17	14.5	25	19000				K30×35×13	14	30	35	13	15.6	25.5	15000
	K24×30×17	19	24	30	17	19.5	27.5	18000				K30×35×17	19	30	35	17	19.6	34	15000
25	K24×30×31 ZW	32	24	30	31	27.5	43.5	18000				K30×35×27	30	30	35	27	30.5	59	15000
												K30×37×16	27	30	37	16	23.1	33.5	15000
												K30×37×18	30	30	37	18	26	38.5	15000
												K30×40×18	48	30	40	18	32	40	14000
												K30×40×30	73	30	40	30	49	69	15000

TN is nylon cage, the running temperature is less than 120°C

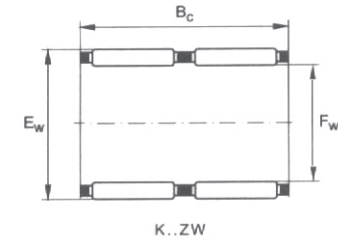
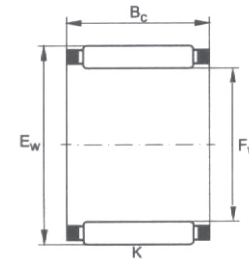
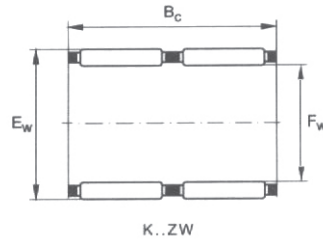
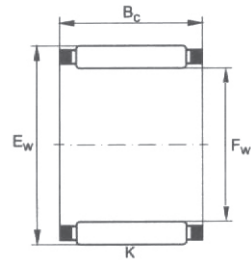


Shaft Diameter (mm)	Bearing Designations	Weight (g)	Principal Dimensions (mm)			Basic Load Ratings (kN)		Limiting Speed (rpm) Oil lubrication			Shaft Diameter (mm)	Bearing Designations	Weight (g)	Principal Dimensions (mm)			Basic Load Ratings (kN)		Limiting Speed (rpm) Oil lubrication
			Fw	Ew	Bc	Dynamic Cr	Static Cor							Fw	Ew	Bc	Dynamic Cr	Static Cor	
32	K32×37×13	18	32	37	13	15.5	25.5	14000			40	K40×45×13	22	40	45	13	17.6	32.5	12000
	K32×37×17	19	32	37	17	19.9	35.5	14000				K40×45×17	31	40	45	17	21.4	41.5	12000
	K32×37×27	30	32	37	27	30	60	14000				K40×45×27	46	40	45	27	33	73	12000
	K32×38×20	30	32	38	20	26.5	45	14000				K40×47×18	39	40	47	18	29.5	50	11000
	K32×39×16	37	32	39	16	23.8	35.5	14000				K40×47×20	42	40	47	20	32.5	57	11000
	K32×39×18	31	32	39	18	26.5	41	14000				K40×48×20	49	40	48	20	36	59	11000
	K32×40×25	49	32	40	25	37.5	58	14000			42	K42×47×13	18	42	47	13	17.8	33.5	11000
	K32×40×42 ZW TN	77	32	40	42	50	84	14000				K42×47×17	32	42	47	17	21.7	43	11000
35	K32×46×32	119	32	46	32	66	84	13000				K42×47×30 ZW	54	42	47	30	33.5	76	11000
	K35×40×13	19	35	40	13	16.2	28	13000				K42×50×20	53	42	50	20	35	57	11000
	K35×40×17	21	35	40	17	20.8	38.5	13000			43	K43×48×17	30	43	48	17	21.6	43	11000
	K35×40×25	31	35	40	25	29.5	60	13000				K43×48×27	50	43	48	27	33.5	75	11000
	K35×40×27 TN	39	35	40	27	25	48.5	13000			45	K45×50×17	34	45	50	17	22.5	46	10000
	K35×42×16	34	35	42	16	24.4	37.5	13000				K45×50×27	51	45	50	27	34.5	80	10000
	K35×42×18	34	35	42	18	27.5	43	13000				K45×52×18	42	45	52	18	31.5	57	10000
	K35×42×20	37	35	42	20	30	49	13000				K45×53×20	55	45	53	20	39	67	10000
	K35×42×30	67	35	42	30	39	68	13000				K45×53×21	60	45	53	21	38.5	67	10000
	K35×45×20	56	35	45	20	37	50	12000				K45×53×28	81	45	53	28	52	98	10000
	K35×45×30	80	35	45	30	53	79	12000				K45×59×18 TN	72	45	59	18	44	54	9500
37	K37×42×17	22	37	42	17	22.4	43	12000				K45×59×32	148	45	59	32	73	103	9500
38	K38×43×17	29	38	43	17	20.5	38.5	12000			47	K47×52×17	35	47	52	17	23.5	49	10000
	K38×43×27	43	38	43	27	31.5	68	12000				K47×52×27	51	47	52	27	35	83	10000
	K38×46×20	47	38	46	20	35.5	57	12000											
	K38×46×32	76	38	46	32	55	99	12000											
39	K39×44×26 ZW	45	39	44	26	27.5	56	12000											

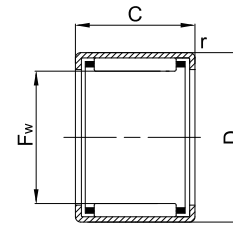
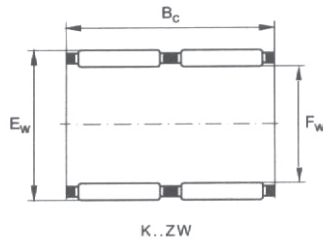
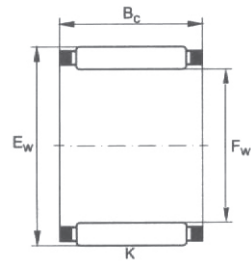
TN is nylon cage, the running temperature is less than 120°C

TN is nylon cage, the running temperature is less than 120°C

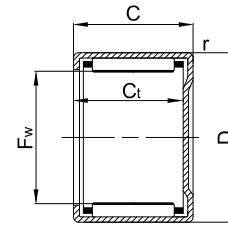




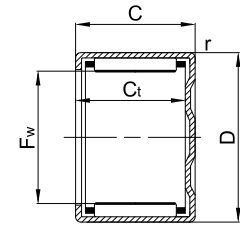
Shaft Diameter (mm)	Bearing Designations	Weight (g)	Principal Dimensions (mm)			Basic Load Ratings (kN)		Limiting Speed (rpm) Oil lubrication			Shaft Diameter (mm)	Bearing Designations	Weight (g)	Principal Dimensions (mm)			Basic Load Ratings (kN)		Limiting Speed (rpm) Oil lubrication
			Fw	Ew	Bc	Dynamic Cr	Static Cor							Fw	Ew	Bc	Dynamic Cr	Static Cor	
50	K50×55×13.5	30	50	55	13.5	18.2	36.5	9500			65	K65×70×20	56	65	70	20	30.5	77	7500
	K50×55×17	35	50	55	17	22.1	47	9500				K65×70×30	83	65	70	30	44	127.4	7500
	K50×55×20	43	50	55	20	26.5	60	9500				K65×73×23	108	65	73	23	46	94	7000
	K50×55×30	65	50	55	30	39	97	9500				K65×73×30	141	65	73	30	57	123	7000
	K50×57×18	47	50	57	18	33.5	63	9000				K68×74×20	71	68	74	20	35.5	84	7000
	K50×58×20	75	50	58	20	35.5	62	9000				K68×74×30	100	68	74	30	46.5	118	7000
	K50×58×25	90	50	58	25	44	81	9000				K68×74×35 ZW	120	68	74	35	48.5	125	7000
52	K52×57×12	24	52	57	12	18	36.5	9000			70	K70×76×20	71	70	76	20	36	86	6500
55	K55×60×20	40	55	60	20	28.5	66	8500				K70×76×30	110	70	76	30	52	139	6500
	K55×60×27	60	55	60	27	38	97	8500				K70×78×30	120	70	78	30	60	135	6500
	K55×60×30	71	55	60	30	41	108	8500				K72×80×20	98	72	80	20	41.5	85	6500
	K55×62×18	52	55	62	18	35.5	70	8500				K73×79×20	75	73	79	20	37	90	6500
	K55×63×20	67	55	63	20	40	74	8500			75	K75×81×20	79	75	81	20	37.5	94	6500
	K55×63×25	80	55	63	25	51	101	8500				K75×81×30	114	75	81	30	52	143	6500
58	K58×65×18	52	58	65	18	35	70	8000				K75×83×23	124	75	83	23	50	109	6000
	K58×65×36 ZW	127	58	65	36	49	107	8000				K75×83×30	147	75	83	30	62	143	6000
60	K60×65×20	52	60	65	20	29.5	72	8000				K75×83×35 ZW	182	75	83	35	63	147	6000
	K60×65×30	77	60	65	30	42.5	116	8000				K75×83×40 ZW	211	75	83	40	73	177	6000
	K60×66×33 ZW	104	60	66	33	46	112	8000			80	K80×86×20	60	80	86	20	38.5	98	6000
	K60×66×40 ZW	116	60	66	40	58	151	8000				K80×88×30	138	80	88	30	71	176	6000
	K60×68×20	71	60	68	20	43.5	85	7500				K80×88×40 ZW	227	80	88	40	76	192	6000
	K60×68×23	94	60	68	23	49.5	101	7500				K80×88×46 ZW	260	80	88	46	88	231	6000
	K60×68×25	89	60	68	25	53	111	7500			85	K85×92×20	102	85	92	20	44.5	108	5500
	K60×68×30 ZW	129	60	68	30	44.5	88	7500			90	K90×97×20	109	90	97	20	45	113	5000
	K60×75×42	240	60	75	42	118	199	7500				K90×98×27	150	90	98	27	61	150	5000
62	K62×70×40 ZW	174	62	70	40	66	146	7500			95	K95×98×30	172	90	98	30	68	172	5000
64	K64×70×16	53	64	70	16	28	60	7500				K95×103×30	165	95	103	30	69	180	4900
												K95×103×40 ZW	266	95	103	40	83	228	4900



HK



BK(3mm < Fw < 25mm)



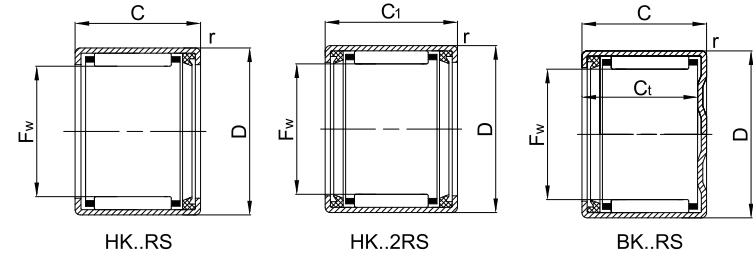
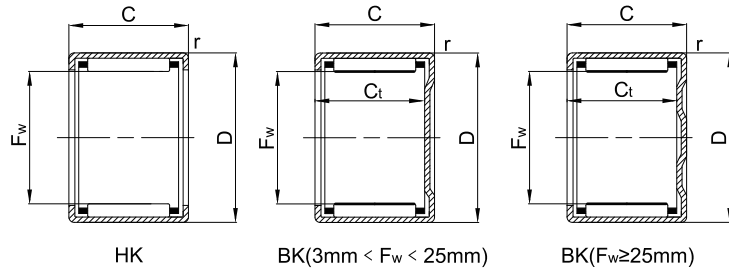
BK(Fw ≥ 25mm)

Shaft Diameter (mm)	Bearing Designations	Weight (g)	Principal Dimensions (mm)			Basic Load Ratings (kN)		Limiting Speed (rpm) Oil lubrication		Shaft Diameter (mm)	Principal Dimensions (mm)					Open End		Close End		Basic Load Ratings (kN)		Limiting Speed (rpm) Oil lubrication
			Fw	Ew	Bc	Dynamic Cr	Static Cor				Fw	D	C	Ct min	r min	Bearing Designations	Weight (g)	Bearing Designations	Weight (g)	Dynamic Cr	Static Cor	
100	K100×107×21	120	100	107	21	48	127	4700		3	3	6.5	6	5.2	0.3	+HK 0306 TN	1	+BK 0306 TN	1	1.23	0.84	46000
	K100×108×27	185	100	108	27	57	143	4700		4	4	8	8	6.4	0.3	+HK 0408	2	+BK 0408	2	1.78	1.31	41000
	K100×108×30	180	100	108	30	71	188	4700		5	5	9	9	7.4	0.4	+HK 0509	2	+BK 0509	2.1	2.4	1.99	38000
105	K105×112×21	129	105	112	21	47.5	127	4500		6	6	10	8	-	0.4	+HK 0608	2.1	-	-	2.03	1.65	35000
110	K110×117×24	172	110	117	24	56	158	4300		6	10	9	9	7.4	0.4	HK 0609	2.5	BK 0609	2.6	2.85	2.6	35000
	K110×118×30	217	110	118	30	78	219	4300		7	7	11	9	7.4	0.4	HK 0709	2.6	BK 0709	2.9	3.1	2.95	31000
115	K115×123×27	200	115	123	27	63	170	4100		8	8	12	8	6.4	0.4	HK 0808	2.7	BK 0808	3	2.75	2.6	28000
120	K120×127×24	165	120	127	24	59	174	4000		8	8	12	10	8.4	0.4	HK 0810	3	BK 0810	3.4	3.8	3.95	28000
125	K125×133×35	275	125	133	35	86	260	3800		9	9	13	8	-	0.4	HK 0908	3	-	-	3.55	3.75	25000
130	K130×137×24	170	130	137	24	61	186	3700		9	9	13	10	8.4	0.4	HK 0910	4	BK 0910	4.3	4.25	4.65	25000
135	K135×143×35	300	135	143	35	91	290	3500		9	9	13	12	10.4	0.4	HK 0912	4.6	BK 0912	4.9	5.3	6.3	25000
145	K145×153×26	262	145	153	26	74	225	3300		10	10	14	10	8.4	0.4	HK 1010	4.1	BK 1010	4.3	4.4	5.1	23000
150	K150×160×46	570	150	160	46	147	470	3200		10	10	14	12	10.4	0.4	HK 1012	4.8	BK 1012	5	5.5	6.8	23000
155	K155×163×26	265	155	163	26	75	236	3100		10	10	14	15	13.4	0.4	HK 1015	6	BK 1015	6.2	6.8	8.8	23000
160	K160×170×46	550	160	170	46	152	510	3000		12	12	16	10	8.4	0.4	HK 1210	4.6	BK 1210	5.2	4.95	6.2	20000
165	K165×173×26	320	165	173	26	81	265	2900		12	12	18	12	9.3	0.8	HK 1212	9	BK 1212	10	6.5	7.3	19000
175	K175×183×32	400	175	183	32	99	350	2700		13	13	19	12	9.3	0.8	HK 1312	10	BK 1312	11	6.8	7.9	18000
185	K185×195×37	607	185	195	37	128	245	2600		14	14	20	12	9.3	0.8	HK 1412	10.5	BK 1412	12	7.1	8.5	16000
195	K195×205×37	620	195	205	37	133	450	2500		15	15	21	12	9.3	0.8	HK 1512	11	BK 1512	13	7.9	9.4	16000
210	K210×220×42	740	210	220	42	154	560	2300		15	15	21	16	13.3	0.8	HK 1516	15	BK 1516	17	10.5	14.4	16000
220	K220×230×42	790	220	230	42	158	590	2200		15	15	21	22	-	0.8	HK 1522	20	-	-	13.4	19.5	16000
240	K240×250×42	850	240	250	42	164	630	2000		16	16	22	12	9.3	0.8	HK 1612	12	BK 1612	14	7.6	9.7	15000
265	K265×280×50	1810	265	280	50	255	860	1800		16	16	22	16	13.3	0.8	HK 1616	16	BK 1616	18	10.9	15.3	15000
										16	16	22	22	19.3	0.8	*HK 1622	22	*BK 1622	24	13.1	19.4	15000
										17	17	23	12	-	0.8	HK 1712	12	-	-	7.9	10.3	14000
										18	18	24	12	9.3	0.8	HK 1812	13	BK 1812	15	8.1	10.9	13000
										18	18	24	16	13.3	0.8	HK 1816	18	BK 1816	20	11.6	17.3	13000
										20	20	26	10	-	0.8	HK 2010	12	-	-	6.4	8.2	12000
										20	20	26	12	-	0.8	HK 2012	14	-	-	8.6	12.1	12000
										20	20	26	16	13.3	0.8	HK 2016	19	BK 2016	22	12.7	20.1	12000
										20	20	26	20	17.3	0.8	HK 2020	24	BK 2020	27	15.7	26	12000
										20	20	26	30	-	0.8	*HK 2030	35	-	-	21.8	40	12000
										22	22	28	10	-	0.8	HK 2210	13	-	-	7.5	10.5	11000
										22	22	28	12	9.3	0.8	HK 2212	15	BK 2212	18	9.1	13.4	11000
										22	22	28	16	13.3	0.8	HK 2216	21	BK 2216	24	13.4	22.1	11000
										22	22	28	20	-	0.8	HK 2220	26	-	-	16.5	29	11000

TN is nylon cage, the running temperature is less than 120°C

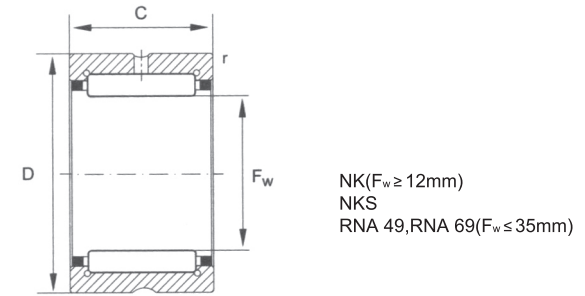
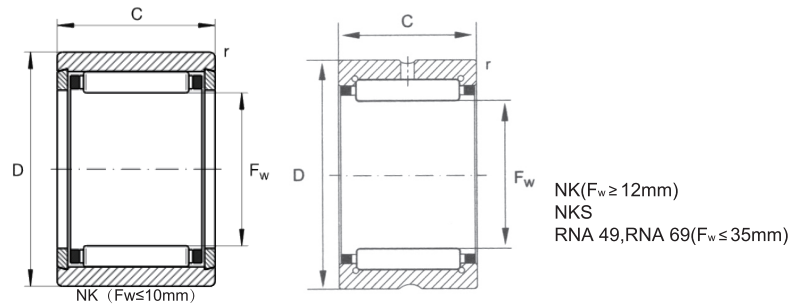
Part no. marked with symbol +, means such bearings are without lubrication holes.

Part no. marked with symbol °, means such bearings are of standard double-row needle roller bearings, with lubrication holes.



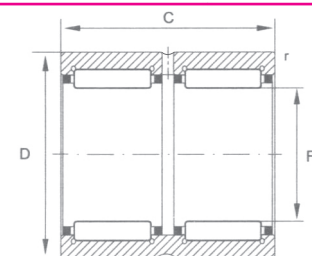
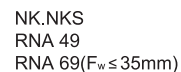
Shaft Diameter (mm)	Principal Dimensions (mm)					Open End		Close End		Basic Load Ratings (kN)		Limiting Speed (rpm) Oil Lubrication			Shaft Diameter (mm)	Principal Dimensions (mm)						Open End			Close End		Basic Load Ratings (kN)		Limiting Speed (rpm) Oil Lubrication	
	Fw	D	C	Ct min	r min	Bearing Designations	Weight (g)	Bearing Designations	Weight (g)	Dynamic Cr	Static Cor					Fw	D	C	C1	Ct min	r min	One Side Sealed Designations	Weight (g)	Double Sides Sealed Designations	Weight (g)	Bearing Designations	Weight (g)	Dynamic Cr		Static Cor
25	25	32	12	-	0.8	HK 2512	20	-	-	11	15.2	10000			8	8	12	10	12	-	0.4	HK 0810 RS	3	HK 0812.2 RS	3.3	-	-	2.75	2.6	20000
	25	32	16	13.3	0.8	HK 2516	27	BK 2516	32	15.5	24	10000			10	10	14	12	14	-	0.4	HK 1012 RS	4.2	HK 1014.2 RS	4.6	-	-	4.4	5.1	17000
	25	32	20	17.3	0.8	HK 2520	33	BK 2520	38	19.9	33	10000			12	12	18	14	16	-	0.8	HK 1214 RS	10	HK 1216.2 RS	11	-	-	6.5	7.3	14000
	25	32	26	23.3	0.8	HK 2526	44	BK 2526	48	25.5	45	10000			14	14	20	14	16	11.3	0.8	HK 1414 RS	12	HK 1416.2 RS	13	BK 1414 RS	13	7.1	8.5	12000
28	25	32	38	35.3	0.8	°HK 2538	64	°BK 2538	68	34	66	10000			15	15	21	14	16	-	0.8	HK 1514 RS	12	HK 1516.2 RS	15	-	-	7.8	9.8	11000
	28	35	16	-	0.8	HK 2816	29	-	-	16.4	26.5	9000				15	21	18	20	-	0.8	HK 1518 RS	16	HK 1520.2 RS	18	-	-	10.5	14.4	11000
	28	35	20	-	0.8	HK 2820	36	-	-	20.9	36	9000			16	16	22	14	16	11.3	0.8	HK 1614 RS	13	HK 1616.2 RS	14	BK 1614 RS	15	7.6	9.7	11000
30	30	37	12	9.3	0.8	HK 3012	23	BK 3012	28	12.1	18.2	8500				18	16	22	-	20	-	0.8	-	-	HK 1620.2 RS	18	-	-	10.9	15.3
	30	37	16	13.3	0.8	HK 3016	31	BK 3016	38	17.2	29	8500			18		24	14	16	-	0.8	HK 1814 RS	14	HK 1816.2 RS	15	-	-	8.1	10.9	9500
	30	37	20	17.3	0.8	HK 3020	39	BK 3020	47	22	39.5	8500			20	20	26	-	16	-	0.8	-	-	HK 2016.2 RS	18	-	-	8.6	12.1	8500
	30	37	26	23.3	0.8	HK 3026	51	BK 3026	58	28	54	8500				20	26	18	20	15.3	0.8	HK 2018 RS	21	HK 2020.2 RS	23	BK 2018 RS	24	12.7	20.1	8500
	30	37	38	35.3	0.8	°HK 3038	76	°BK 3038	84	37.5	79	8500			22	22	28	14	16	-	0.8	HK 2214 RS	16	HK 2216.2 RS	18	-	-	9.1	13.4	8000
35	35	42	12	-	0.8	HK 3512	27	-	-	13.1	21.3	7500				22	22	28	18	20	-	0.8	HK 2218 RS	24	HK 2220.2 RS	26	-	-	13.4	22.1
	35	42	16	-	0.8	HK 3516	36	-	-	18.7	33.5	7500			25		25	32	-	16	-	0.8	-	-	HK 2516.2 RS	27	-	-	11	15.2
	35	42	20	17.3	0.8	HK 3520	44	BK 3520	53	23.8	46	7500				25	32	18	20	15.3	0.8	HK 2518 RS	29	HK 2520.2 RS	31	BK 2518 RS	34	15.6	24	7000
40	40	47	12	-	0.8	HK 4012	30	-	-	14	24.3	6500			25	25	32	-	24	-	0.8	-	-	HK 2524.2 RS	40	-	-	19.9	33	7000
	40	47	16	-	0.8	HK 4016	39	-	-	20	38.5	6500				25	25	32	-	30	-	0.8	-	-	HK 2530.2 RS	47	-	-	25.5	45
	40	47	20	17.3	0.8	HK 4020	54	BK 4020	62	25.5	52	6500			28		28	35	18	20	-	0.8	HK 2818 RS	31	HK 2820.2 RS	34	-	-	16.4	26.5
45	45	52	12	-	0.8	HK 4512	33	-	-	14.9	27.5	6500			30	30	37	-	16	-	0.8	-	-	HK 3016.2 RS	31	-	-	12.1	18.2	6000
	45	52	16	-	0.8	HK 4516	46	-	-	21.3	43	6500				30	37	18	20	-	0.8	HK 3018 RS	37	HK 3020.2 RS	36	-	-	17.2	29	6000
	45	52	20	17.3	0.8	HK 4520	56	BK 4520	72	27	59	6500				30	37	-	24	-	0.8	-	-	HK 3024.2 RS	44	-	-	22	39.5	6000
50	50	58	20	-	0.8	HK 5020	70	-	-	31	63	5000			35	35	42	-	16	-	0.8	-	-	HK 3516.2 RS	32	-	-	13.1	21.3	5000
	50	58	25	-	0.8	HK 5025	90	-	-	38.5	84	5000				35	42	18	20	-	0.8	HK 3518 RS	39	HK 3520.2 RS	41	-	-	18.7	33.5	5000
55	55	63	20	-	0.8	HK 5520	74	-	-	31.5	67	4700			40	40	47	-	16	-	0.8	-	-	HK 4016.2 RS	37	-	-	14	24.3	4500
	55	63	28	-	0.8	HK 5528	105	-	-	44	103	4700				40	47	18	20	-	0.8	HK 4018 RS	45	HK 4020.2 RS	48	-	-	20	38.5	4500
60	60	68	12	-	0.8	HK 6012	49	-	-	17.4	32	4400			45	45	52	18	20	-	0.8	HK 4518 RS	50	HK 4520.2 RS	54	-	-	21.3	43	4000
	60	68	20	-	0.8	HK 6020	81	-	-	33.5	75	4400				50	50	58	22	24	-	0.8	HK 5022 RS	76	HK 5024.2 RS	81	-	-	31	63
	60	68	32	-	0.8	HK 6032	136	-	-	53	135	4400																		

TN is nylon cage, the running temperature is less than 120°C  
Part no. marked with symbol +, means such bearings are without lubrication holes.  
Part no. marked with symbol °, means such bearings are of standard double-row needle roller bearings, with lubrication holes.

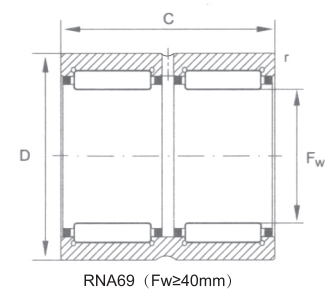
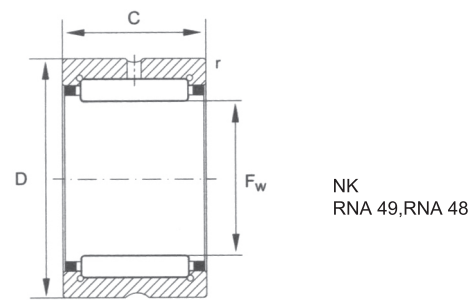


Shaft Diameter (mm)	Principal Dimensions (mm)				Bearing Designations				Basic Load Ratings (kN)			Limiting Speed (rpm)	Oil Lubrication	Shaft Diameter (mm)			Shaft Diameter (mm)	Principal Dimensions (mm)				Bearing Designations				Basic Load Ratings (kN)			Limiting Speed (rpm)	Oil Lubrication
	Fw	D	C	r <sub>min</sub>	NK	RNA49	RNA69	Weight (g)	Dynamic Cr	Static Cor	NK							RNA49	RNA69	NKS	Weight (g)	Dynamic Cr	Static Cor							
5	5	10	10	0.15	+NK 5/10 TN	-	-	3.1	2.65	1.92	37000			20	20	28	16	0.3	NK 20/16	-	-	-	27	13	17.5	20000				
	5	10	12	0.15	+NK 5/12 TN	-	-	3.7	3	2.65	37000				20	28	20	0.3	NK 20/20	-	-	-	33.9	16.4	23.8	20000				
6	6	12	10	0.15	+NK 6/10 TN	-	-	4.7	2.6	2.28	33000				20	28	13	0.3	-	RNA 4902	-	-	21.7	10.6	13.6	22000				
	6	12	12	0.15	+NK 6/12 TN	-	-	5.7	3.35	3.15	33000				20	28	23	0.3	-	-	RNA 6902	-	39.7	17.3	25.5	20000				
7	7	14	10	0.3	+NK 7/10 TN	-	-	6.9	2.85	2.65	31000			21	20	32	20	0.6	-	-	-	NKS 20	48.7	23	25	19000				
	7	14	12	0.3	+NK 7/12 TN	-	-	8.2	3.65	3.6	31000				21	29	16	0.3	NK 21/16	-	-	-	28.1	13.5	18.7	20000				
8	8	15	12	0.3	+NK 8/12 TN	-	-	8.7	3.95	4.1	29000			22	21	29	20	0.3	NK 21/20	-	-	-	35.2	17.1	25.5	20000				
	8	15	16	0.3	+NK 8/16 TN	-	-	12	5.1	5.8	29000				22	30	16	0.3	NK 22/16	-	-	-	30	14	19.9	19000				
9	9	16	12	0.3	+NK 9/12 TN	-	-	10.3	4.5	5	28000				22	30	20	0.3	NK 22/20	-	-	-	37	17.7	27	19000				
	9	16	16	0.3	+NK 9/16 TN	-	-	12.8	5.9	7.1	28000				22	30	13	0.3	-	RNA 4903	-	-	22.2	11	14.6	21000				
10	10	17	12	0.3	+NK 10/12 TN	-	-	10.1	4.75	5.5	27000			24	22	30	23	0.3	-	-	RNA 6903	-	42.4	18.6	29	19000				
	10	17	16	0.3	+NK 10/16 TN	-	-	13.3	6.2	7.8	27000				22	35	20	0.6	-	-	-	NKS 22	61.5	24.5	28	17000				
12	12	19	12	0.3	NK 12/12	-	-	12.1	6.4	7.1	25000				24	24	32	16	0.3	NK 24/16	-	-	-	31.9	15	22.3	18000			
	12	19	16	0.3	NK 12/16	-	-	15.9	9	11	25000					24	32	20	0.3	NK 24/20	-	-	-	40	19	30.5	18000			
14	14	22	16	0.3	NK 14/16	-	-	20.7	10.1	11.5	24000			24		37	20	0.6	-	-	-	NKS 24	65.5	26	31	16000				
	14	22	20	0.3	NK 14/20	-	-	25.5	12.8	15.8	24000			25	25	33	16	0.3	NK 25/16	-	-	-	32.6	14.9	22.4	17000				
	14	22	13	0.3	-	RNA 4900	-	16.5	8.5	9.2	25000				25	33	20	0.3	NK 25/20	-	-	-	42	18.8	30.5	17000				
15	15	23	16	0.3	NK 15/16	-	-	21.8	10.7	12.7	23000				25	37	17	0.3	-	RNA 4904	-	-	52.3	21	25.5	17000				
	15	23	20	0.3	NK 15/20	-	-	26.6	13.5	17.4	23000				25	37	30	0.3	-	-	RNA 6904	-	100	36	51	16000				
16	16	24	16	0.3	NK 16/16	-	-	22.4	11.3	13.9	22000			26	25	38	20	0.6	-	-	-	NKS 25	68.1	27.5	33.5	16000				
	16	24	20	0.3	NK 16/20	-	-	28.4	14.4	18.8	22000				26	34	16	0.3	NK 26/16	-	-	-	34	15.3	23.6	16000				
	16	24	13	0.3	-	RNA 4901	-	17.4	9.4	10.9	24000				26	34	20	0.3	NK 26/20	-	-	-	42	19.4	32	16000				
	16	24	22	0.3	-	-	RNA 6901	31	16	21.6	22000				28	28	37	20	0.3	NK 28/20	-	-	-	52.2	22	34	15000			
17	17	25	16	0.3	NK 17/16	-	-	23.7	11.9	15	22000			28		37	30	0.3	NK 28/30	-	-	-	82	33	57	15000				
	17	25	20	0.3	NK 17/20	-	-	29.8	15.1	20.4	22000			28		39	17	0.3	-	RNA 49/22	-	-	50.2	22.8	29.5	16000				
18	18	26	16	0.3	NK 18/16	-	-	24.9	12.5	16.2	21000			28		28	39	30	0.3	-	-	RNA 69/22	-	98	37.5	55	15000			
	18	26	20	0.3	NK 18/20	-	-	31.4	15.8	22	21000				28	42	20	0.6	-	-	-	NKS 28	83.6	28.5	36.5	14000				
19	19	27	16	0.3	NK 19/16	-	-	26.1	13	17.4	21000			29	29	38	20	0.3	NK 29/20	-	-	-	50	21.9	34	15000				
	19	27	20	0.3	NK 19/20	-	-	32.2	16.5	23.6	21000				29	38	30	0.3	NK 29/30	-	-	-	84.3	32.5	57	15000				
TN is nylon cage, the running temperature is less than 120℃ Part no. marked with symbol +, means such bearings are with snap ring, without lubrication groove and lubrication holes.																	30	30	40	20	0.3	NK 30/20	-	-	-	61	22.6	36	14000	
													30	40	30	0.3		NK 30/30	-	-	-	92.4	33.5	60	14000					
													30	42	17	0.3		-	RNA 4905	-	-	61	23.6	31.5	15000					
													30	42	30	0.3		-	-	RNA 6905	-	112	39	59	14000					
																		-	-	-	NKS 30	104	32	40	13000					
													32	32	42	20	0.3	NK 32/20	-	-	-	68	23.1	37.5	13000					
														32	42	30	0.3	NK 32/30	-	-	-	102	34.5	63	13000					
														32	45	17	0.3	-	RNA 49/28	-	-	73.2	24.4	33.5	13000					
														32	45	30	0.3	-	-	RNA 69/28	-	73.5	40.5	63	13000					
																		-	-	-	NKS 32	110	33.5	43.5	12000					

TN is nylon cage, the running temperature is less than 120°C  
Part no. marked with symbol +, means such bearings are with snap ring, without lubrication groove and lubrication holes.

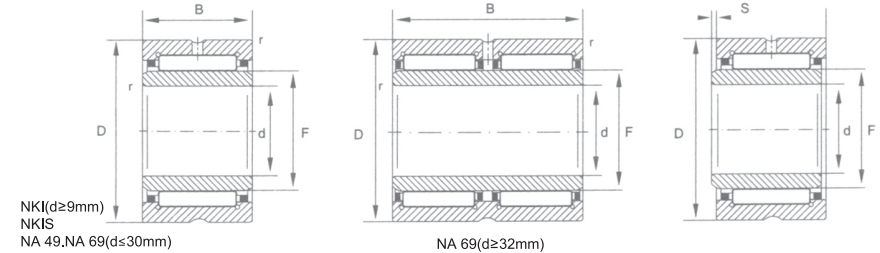
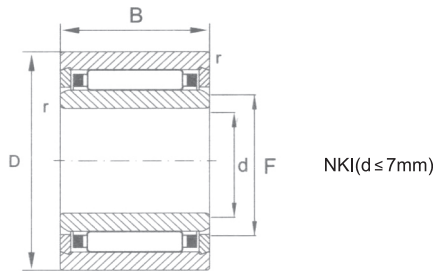


RNA69 (Fw≥40mm)



Shaft Diameter (mm)	Principal Dimensions (mm)				Bearing Designations			Basic Load Ratings (kN)		Limiting Speed (rpm) Oil lubrication			Shaft Diameter (mm)	Principal Dimensions (mm)				Bearing Designations			Basic Load Ratings (kN)		Limiting Speed (rpm) Oil lubrication
	Fw	D	C	r min	NK	RNA49	RNA69	Weight (g)	Dynamic Cr	Static Cor				Fw	D	C	r min	RNA49	RNA48	Weight (g)	Dynamic Cr	Static Cor	
100	100	120	26	1	NK 100/26	-	-	515	76	146	4500		115	115	140	40	1.1	RNA 4920	-	1150	128	270	4100
	100	120	36	1	NK 100/36	-	-	715	111	237	4500		120	120	140	30	1	-	RNA 4822	670	94	216	3800
	100	120	35	1.1	-	RNA 4917	-	657	111	237	4800		125	125	150	40	1.1	RNA 4922	-	1240	132	290	3800
	100	120	63	1.1	-	-	RNA 6917	1200	166	400	4500		130	130	150	30	1	-	RNA 4824	730	99	239	3500
105	105	125	26	1	NK 105/26	-	-	540	78	155	4300		135	135	165	45	1.1	RNA 4924	-	1860	181	390	3400
	105	125	36	1	NK 105/36	-	-	713	114	250	4300		145	145	165	35	1.1	-	RNA 4826	990	118	310	3200
	105	125	35	1.1	-	RNA 4918	-	745	114	250	4600		150	150	180	50	1.5	RNA 4926	-	2210	203	470	3200
	105	125	63	1.1	-	-	RNA 6918	1330	172	425	4300		155	155	175	35	1.1	-	RNA 4828	1050	120	325	3000
110	110	130	30	1.1	NK 110/30	-	-	650	98	210	4100		160	160	190	50	1.5	RNA 4928	-	2350	209	500	3000
	110	130	40	1.1	NK 110/40	-	-	830	127	290	4100		165	165	190	40	1.1	-	RNA 4830	1600	152	400	2800
	110	130	35	1.1	-	RNA 4919	-	719	116	260	4400		175	175	200	40	1.1	-	RNA 4832	1700	160	435	2600
	110	130	63	1.1	-	-	RNA 6919	1460	174	440	4100		185	185	215	45	1.1	-	RNA 4834	2540	185	510	2500
													195	195	225	45	1.1	-	RNA 4836	2680	194	550	2300
													210	210	240	50	1.5	-	RNA 4838	3210	227	690	2200
													220	220	250	50	1.5	-	RNA 4840	3350	230	720	2100
													240	240	270	50	1.5	-	RNA 4844	3620	243	790	1900
													265	265	300	60	2	-	RNA 4848	5400	355	1080	1700
													285	285	320	60	2	-	RNA 4852	5800	370	1160	1600
													305	305	350	69	2	-	RNA 4856	9300	450	1300	1500
													330	330	380	80	2.1	-	RNA 4860	12700	620	1770	1400
													350	350	400	80	2.1	-	RNA 4864	13400	630	1850	1300
													370	370	420	80	2.1	-	RNA 4868	14000	640	1940	1200
													390	390	440	80	2.1	-	RNA 4872	14800	660	2020	1200
													415	415	480	100	2.1	-	RNA 4876	26000	1000	2900	1100





Shaft Diameter (mm)	Principal Dimensions (mm)						Bearing Designations				Basic Load Ratings (kN)			Limiting Speed (rpm) Oil Lubrication
	d	F	D	B	r <sub>min</sub>	S <sup>1)</sup>	NKI	RNA 49	NA 69	NKIS	Weight (g)	Dynamic Cr	Static Cor	
5	5	8	15	12	0.3	1.5	<b>+NKI 5/12 TN</b>	-	-	-	11.5	3.95	4.1	32000
	5	8	15	16	0.3	2	<b>+NKI 5/16 TN</b>	-	-	-	15.3	5.1	5.8	32000
6	6	9	16	12	0.3	1.5	<b>+NKI 6/12 TN</b>	-	-	-	13.5	4.5	5	30000
	6	9	16	16	0.3	2	<b>+NKI 6/16 TN</b>	-	-	-	17.4	5.9	7.1	30000
7	7	10	17	12	0.3	1.5	<b>+NKI 7/12 TN</b>	-	-	-	13.7	4.75	5.5	29000
	7	10	17	16	0.3	2	<b>+NKI 7/16 TN</b>	-	-	-	18.2	6.2	7.8	29000
9	9	12	19	12	0.3	1.5	<b>NKI 9/12</b>	-	-	-	16.6	6.4	7.1	27000
	9	12	19	16	0.3	2	<b>NKI 9/16</b>	-	-	-	21.9	9	11	27000
10	10	14	22	16	0.3	0.5	<b>NKI 10/16</b>	-	-	-	29.4	10.1	11.5	25000
	10	14	22	20	0.3	0.5	<b>NKI 10/20</b>	-	-	-	37.1	12.8	15.6	25000
	10	14	22	13	0.3	0.5	-	<b>NA 4900</b>	-	-	23	8.5	9.2	25000
12	12	16	24	16	0.3	0.5	<b>NKI 12/16</b>	-	-	-	33.3	11.3	13.9	24000
	12	16	24	20	0.3	0.5	<b>NKI 12/20</b>	-	-	-	41.9	14.4	18.8	24000
	12	16	24	13	0.3	0.5	-	<b>NA 4901</b>	-	-	26	9.4	10.9	24000
	12	16	24	22	0.3	1	-	-	<b>NA 6901</b>	-	46	16	21.6	24000
15	15	19	27	16	0.3	0.5	<b>NKI 15/16</b>	-	-	-	38.8	13	17.4	22000
	15	19	27	20	0.3	0.5	<b>NKI 15/20</b>	-	-	-	48.7	16.5	23.6	22000
	15	20	28	13	0.3	0.5	-	<b>NA 4902</b>	-	-	34	10.6	13.6	22000
	15	20	28	23	0.3	1	-	-	<b>NA 6902</b>	-	63.6	17.3	25.5	22000
	15	22	35	20	0.6	0.5	-	-	-	<b>NKIS 15</b>	92	24.5	28	20000
17	17	21	29	16	0.3	0.5	<b>NKI 17/16</b>	-	-	-	42.4	13.5	18.7	21000
	17	21	29	20	0.3	0.5	<b>NKI 17/20</b>	-	-	-	53.4	17.1	25.5	21000
	17	22	30	13	0.3	0.5	-	<b>NA 4903</b>	-	-	37	11	14.6	21000
	17	22	30	23	0.3	1	-	-	<b>NA 6903</b>	-	72	18.6	29	21000
	17	24	37	20	0.6	0.5	-	-	-	<b>NKIS 17</b>	98	26	31	18000

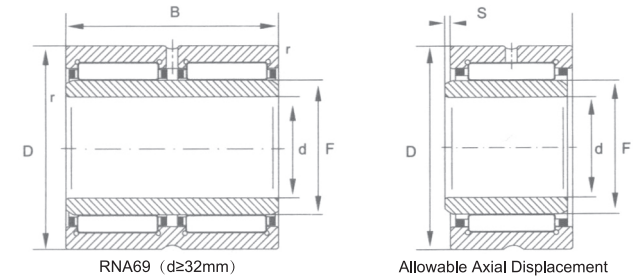
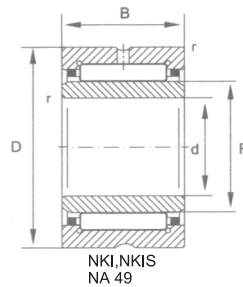
TN is nylon cage, the running temperature is less than 120°C

Part no. marked with symbol +, means such bearings are with snap ring, without lubrication groove and lubrication holes.

<sup>1)</sup> Axial displacement of inner ring allowed

Shaft Diameter (mm)	Principal Dimensions (mm)						Bearing Designations				Basic Load Ratings (kN)			Limiting Speed (rpm) Oil Lubrication
	d	F	D	B	r <sub>min</sub>	S <sup>1)</sup>	NKI	NA 49	NA 69	NKIS	Weight (g)	Dynamic Cr	Static Cor	
20	20	24	32	16	0.3	0.5	<b>NKI 20/16</b>	-	-	-	49	15	22.3	19000
	20	24	32	20	0.3	0.5	<b>NKI 20/20</b>	-	-	-	61	19	30.5	19000
	20	25	37	17	0.3	0.8	-	<b>NA 4904</b>	-	-	75.2	21	25.5	17000
	20	25	37	30	0.3	1	-	-	<b>NA 6904</b>	-	141	36	51	17000
22	20	28	42	20	0.6	0.5	-	-	-	<b>NKIS 20</b>	129	28.5	36.5	16000
	22	26	34	16	0.3	0.5	<b>NKI 22/16</b>	-	-	-	52	15.3	23.6	18000
	22	26	34	20	0.3	0.5	<b>NKI 22/20</b>	-	-	-	65.4	19.4	32	18000
	22	28	39	17	0.3	0.8	-	<b>NA 49/22</b>	-	-	80	22.8	29.5	16000
25	22	28	39	30	0.3	0.5	-	-	<b>NA 69/22</b>	-	150	37.5	55	16000
	25	29	38	20	0.3	1	<b>NKI 25/20</b>	-	-	-	75.8	21.9	34	16000
	25	29	38	30	0.3	1.5	<b>NKI 25/30</b>	-	-	-	124	32.5	57	16000
	25	30	42	17	0.3	0.8	-	<b>NA 4905</b>	-	-	88	23.6	31.5	15000
	25	30	42	30	0.3	1	-	-	<b>NA 6905</b>	-	161	39	59	15000
28	25	32	47	22	0.6	1	-	-	-	<b>NKIS 25</b>	162	33.5	43.5	14000
	28	32	42	20	0.3	1	<b>NKI 28/20</b>	-	-	-	92.4	23.1	37.5	14000
	28	32	42	30	0.3	1.5	<b>NKI 28/30</b>	-	-	-	146	34.5	63	14000
	28	32	45	17	0.3	0.8	-	<b>NA 49/28</b>	-	-	97.7	24.4	33.5	13000
30	28	32	45	30	0.3	1	-	-	<b>NA 69/28</b>	-	182	40.5	63	13000
	30	35	45	20	0.3	0.5	<b>NKI 30/20</b>	-	-	-	108	24.3	41.5	13000
	30	35	45	30	0.3	1	<b>NKI 30/30</b>	-	-	-	165	36	69	13000
	30	35	47	17	0.3	0.8	-	<b>NA 4906</b>	-	-	101	25	35.5	13000
	30	35	47	30	0.3	1	-	-	<b>NA 6906</b>	-	192	43.5	71	13000
32	30	37	52	22	0.6	1	-	-	-	<b>NKIS 30</b>	184	36.5	50	12000
	32	37	47	20	0.3	0.5	<b>NKI 32/20</b>	-	-	-	118	24.9	43.5	12000
	32	37	47	30	0.3	1	<b>NKI 32/30</b>	-	-	-	180	37	73	12000
	32	40	52	20	0.6	0.8	-	<b>NA 49/32</b>	-	-	158	30.5	47.5	12000
35	32	40	52	36	0.6	0.5	-	-	<b>NA 69/32</b>	-	288	47	82	12000
	35	40	50	20	0.3	0.5	<b>NKI 35/20</b>	-	-	-	122	26	47	12000
	35	40	50	30	0.3	1	<b>NKI 35/30</b>	-	-	-	193	39	79	12000
	35	42	55	20	0.6	0.8	-	<b>NA 4907</b>	-	-	170	31.5	50	11000
	35	42	55	36	0.6	0.5	-	-	<b>NA 6907</b>	-	310	48	86	11000
	35	43	58	22	0.6	0.5	-	-	-	<b>NKIS 35</b>	220	39	57	11000

<sup>1)</sup> Axial displacement of inner ring allowed

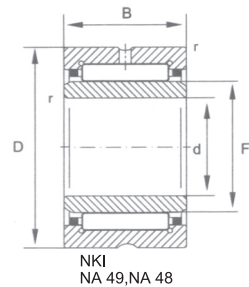


Shaft Diameter (mm)	Principal Dimensions (mm)						Bearing Designations				Basic Load Ratings (kN)			Limiting Speed (rpm) Oil Lubrication
	d	F	D	B	r <sub>min</sub>	S <sup>1)</sup>	NKI	NA 49	NA 69	NKIS	Weight (g)	Dynamic Cr	Static Cor	
38	38	43	53	20	0.3	0.5	<b>NKI 38/20</b>	-	-	-	136	27	51	11000
	38	43	53	30	0.3	1.0	<b>NKI 38/30</b>	-	-	-	207	45	85	11000
40	40	45	55	20	0.3	0.5	<b>NKI 40/20</b>	-	-	-	136	27.5	53	10000
	40	45	55	30	0.3	1.0	<b>NKI 40/30</b>	-	-	-	216	41	88	10000
	40	48	62	22	0.6	1.0	-	<b>NA 4908</b>	-	-	230	43	67	9500
	40	48	62	40	0.6	0.5	-	-	<b>NA 6908</b>	-	430	66	116	9500
	40	50	65	22	1.0	0.5	-	-	-	<b>NKIS 40</b>	281	42.5	67	9500
42	42	47	57	20	0.3	0.5	<b>NKI 42/20</b>	-	-	-	148	28.5	56	10000
	42	47	57	30	0.3	1.0	<b>NKI 42/30</b>	-	-	-	222	43	94	10000
45	45	50	62	25	0.6	1.5	<b>NKI 45/25</b>	-	-	-	217	38	74	9000
	45	50	62	35	0.6	2.0	<b>NKI 45/35</b>	-	-	-	308	50	106	9000
	45	52	68	22	0.6	1.0	-	<b>NA 4909</b>	-	-	271	45	73	8500
	45	52	68	40	0.6	0.5	-	-	<b>NA 6909</b>	-	495	69	127	8500
	45	55	72	22	1.0	0.5	-	-	-	<b>NKIS 45</b>	336	45	74	8500
50	50	55	68	25	0.6	1.5	<b>NKI 50/25</b>	-	-	-	270	40	82	8500
	50	55	68	35	0.6	2.0	<b>NKI 50/35</b>	-	-	-	379	53	118	8500
	50	58	72	22	0.6	1.0	-	<b>NA 4910</b>	-	-	274	47	80	8000
	50	58	72	40	0.6	0.5	-	-	<b>NA 6910</b>	-	515	73	139	8000
	50	60	80	28	1.1	2.0	-	-	-	<b>NKIS 50</b>	518	63	98	7500
55	55	60	72	25	0.6	1.5	<b>NKI 55/25</b>	-	-	-	255	42	90	7500
	55	60	72	35	0.6	2.0	<b>NKI 55/35</b>	-	-	-	379	56	130	7500
	55	63	80	25	1.0	1.5	-	<b>NA 4911</b>	-	-	393	58	100	7500
	55	63	80	45	1.0	1.5	-	-	<b>NA 6911</b>	-	780	90	176	7500
	55	65	85	28	1.1	2.0	-	-	-	<b>NKIS 55</b>	558	67	108	7000
60	60	68	82	25	0.6	1.0	<b>NKI 60/25</b>	-	-	-	394	43.5	89	7000
	60	68	82	35	0.6	1.0	<b>NKI 60/35</b>	-	-	-	553	62	139	7000
	60	68	85	25	1.0	1.5	-	<b>NA 4912</b>	-	-	426	60	108	7000
	60	68	85	45	1.0	1.5	-	-	<b>NA 6912</b>	-	808	94	191	7000
	60	70	90	28	1.1	2.0	-	-	-	<b>NKIS 60</b>	560	68	113	6500
65	65	73	90	25	1.0	1.0	<b>NKI 65/25</b>	-	-	-	467	53	100	6500
	65	73	90	35	1.0	1.0	<b>NKI 65/35</b>	-	-	-	659	75	156	6500
	65	72	90	25	1.0	1.5	-	<b>NA 4913</b>	-	-	456	61	112	6500
	65	72	90	45	1.0	1.5	-	-	<b>NA 6913</b>	-	833	95	198	6500
	65	75	95	28	1.1	2.0	-	-	-	<b>NKIS 65</b>	641	71	123	6500

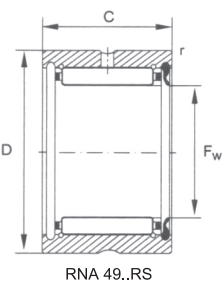
Allowable axial displacement of inner ring relative to outer ring

Allowable axial displacement of inner ring relative to outer ring

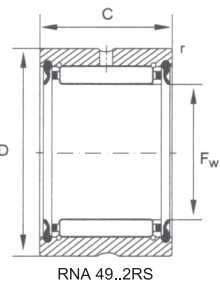




NRI  
NA 49,NA 48



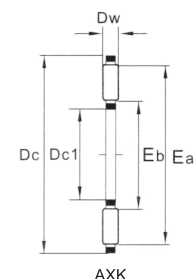
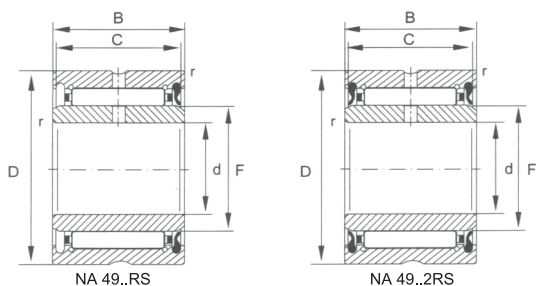
RNA 49..RS



RNA 49..2RS

Shaft Diameter (mm)	Principal Dimensions (mm)						Bearing Designations				Basic Load Ratings (kN)		Limiting Speed (rpm) Oil Lubrication			Shaft Diameter (mm)	Principal Dimensions (mm)				Bearing Designations				Basic Load Ratings (kN)		Limiting Speed (rpm) Oil Lubrication
	d	F	D	B	r min	S <sup>1)</sup>	NKI	NA 49	NA 48	Weight (g)	Dynamic Cr	Static Cor					Fw	D	C	r min	RNA 49..RS Single Seal	RNA 49..RS Double Seals	Weight (g)	Dynamic Cr	Static Cor		
100	100	110	130	30	1.1	1.5	NKI 100/30	-	-	990	98	210	4300			14	14	22	13	0.3	RNA 4900 RS	RNA 4900 2RS	16	6.8	6.9	13000	
	100	110	130	40	1.1	2.0	NKI 100/40	-	-	1330	127	290	4300			16	16	24	13	0.3	RNA 4901 RS	RNA 4901 2RS	18	7.6	8.3	12000	
	100	115	140	40	1.1	2.0	-	NA 4920	-	1900	128	270	4100			20	20	28	13	0.3	RNA 4902 RS	RNA 4902 2RS	21.5	8.6	10.6	10000	
110	110	125	150	40	1.1	2.0	-	NA 4922	-	2070	132	290	3800			22	22	30	13	0.3	RNA 4903 RS	RNA 4903 2RS	23	8.8	11	9000	
	110	120	140	30	1.0	0.8	-	-	NA 4822	1080	94	216	3900			25	25	37	17	0.3	RNA 4904 RS	RNA 4904 2RS	56	17.3	19.9	7500	
120	120	135	165	45	1.1	2.0	-	NA 4924	-	2860	181	390	3400			30	30	42	17	0.3	RNA 4905 RS	RNA 4905 2RS	60	19.3	24.2	6500	
	120	130	150	30	1.0	0.8	-	-	NA 4824	1170	99	239	3600			35	35	47	17	0.3	RNA 4906 RS	RNA 4906 2RS	69	21.1	28.5	5500	
130	130	150	180	50	1.5	1.5	-	NA 4926	-	3900	203	470	3200			42	42	55	20	0.6	RNA 4907 RS	RNA 4907 2RS	107	26.5	39.5	4800	
	130	145	165	35	1.1	1.0	-	-	NA 4826	1810	118	310	3300			48	48	62	22	0.6	RNA 4908 RS	RNA 4908 2RS	154	36	53	4200	
140	140	160	190	50	1.5	1.5	-	NA 4928	-	4150	209	500	3000			52	52	68	22	0.6	RNA 4909 RS	RNA 4909 2RS	157	38	59	3900	
	140	155	175	35	1.1	1.0	-	-	NA 4828	1920	120	325	3100			58	58	72	22	0.6	RNA 4910 RS	RNA 4910 2RS	160	40	64	3500	
150	150	165	190	40	1.1	1.5	-	-	NA 4830	2720	152	400	2900														
160	160	175	200	40	1.1	1.5	-	-	NA 4832	2890	160	435	2700														
170	170	185	215	45	1.1	1.5	-	-	NA 4834	3960	185	510	2500														
180	180	195	225	45	1.1	1.5	-	-	NA 4836	4200	194	550	2400														
190	190	210	240	50	1.5	1.5	-	-	NA 4838	5610	227	690	2300														

Allowable axial displacement of inner ring relative to outer ring

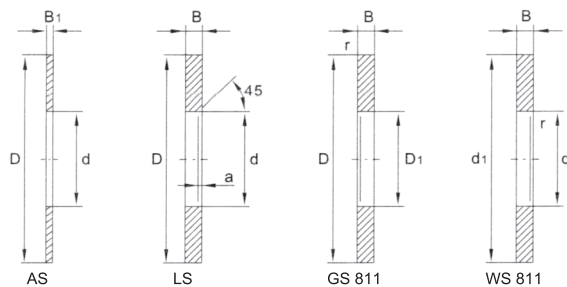


Shaft Diameter (mm)	Principal Dimensions (mm)							Bearing Designations			Basic Load Ratings (kN)		Limiting Speed (rpm) Oil Lubrication			Shaft Diameter (mm)	Needle Roller Thrust Bearing and Cage Parts		Bearing Designations					
	d	F	D	C	B	r min		NA 49..RS Single Seal	NA 49..RS Double Seals	Weight (g)	Dynamic Cr	Static Cor					Bearing Designation	Weight (g)	Thrust Washer	Weight (g)	Raceway Washer	Shaft Washer	Housing Washer	Weight (g)
10	10	14	22	13	14	0.3		NA 4900 RS	NA 4900 2RS	24.5	6.8	6.9	13000			4	AXK 0414 TN	0.7	AS 0414	1	-	-	-	-
12	12	16	24	13	14	0.3		NA 4901 RS	NA 4901 2RS	27.5	7.6	8.3	12000			5	AXK 0515 TN	0.8	AS 0515	1	-	-	-	-
15	15	20	28	13	14	0.3		NA 4902 RS	NA 4902 2RS	37	8.6	10.6	10000			6	AXK 0619 TN	1	AS 0619	2	LS 0619	-	-	4
17	17	22	30	13	14	0.3		NA 4903 RS	NA 4903 2RS	40	8.8	11	9000			8	AXK 0821 TN	2	AS 0821	2	LS 0821	-	-	4
20	20	25	37	17	18	0.3		NA 4904 RS	NA 4904 2RS	80	17.3	19.9	7500			10	AXK 1024	3	AS 1024	3	LS 1024	-	-	7
25	25	30	42	17	18	0.3		NA 4905 RS	NA 4905 2RS	89.5	19.3	24.2	6500			12	AXK 1226	3	AS 1226	3	LS 1226	-	-	8
30	30	35	47	17	18	0.3		NA 4906 RS	NA 4906 2RS	104	21.1	28.5	5500			15	AXK 1528	4	AS 1528	3	LS 1528	GS 81102	WS 81102	9
35	35	42	55	20	21	0.6		NA 4907 RS	NA 4907 2RS	175	26.5	39.5	4800			17	AXK 1730	4	AS 1730	4	LS 1730	GS 81103	WS 81103	9
40	40	48	62	22	23	0.6		NA 4908 RS	NA 4908 2RS	252	36	53	4200			20	AXK 2035	5	AS 2035	5	LS 2035	GS 81104	WS 81104	13
45	45	52	68	22	23	0.6		NA 4909 RS	NA 4909 2RS	290	38	59	3900			25	AXK 2542	7	AS 2542	7	LS 2542	GS 81105	WS 81105	19
50	50	58	72	22	23	0.6		NA 4910 RS	NA 4910 2RS	295	40	64	3500			30	AXK 3047	8	AS 3047	8	LS 3047	GS 81106	WS 81106	22
																35	AXK 3552	10	AS 3552	9	LS 3552	GS 81107	WS 81107	29
																40	AXK 4060	16	AS 4060	12	LS 4060	GS 81108	WS 81108	40
																45	AXK 4565	18	AS 4565	13	LS 4565	GS 81109	WS 81109	50
																50	AXK 5070	20	AS 5070	14	LS 5070	GS 81110	WS 81110	55
																55	AXK 5578	28	AS 5578	18	LS 5578	GS 81111	WS 81111	88
																60	AXK 6085	33	AS 6085	22	LS 6085	GS 81112	WS 81112	97
																65	AXK 6590	35	AS 6590	24	LS 6590	GS 81113	WS 81113	115
																70	AXK 7095	60	AS 7095	25	LS 7095	GS 81114	WS 81114	123
																75	AXK 75100	61	AS 75100	27	LS 75100	GS 81115	WS 81115	142
																80	AXK 80105	63	AS 80105	28	LS 80105	GS 81116	WS 81116	151
																85	AXK 85110	67	AS 85110	29	LS 85110	GS 81117	WS 81117	159
																90	AXK 90120	86	AS 90120	39	LS 90120	GS 81118	WS 81118	234
																100	AXK 100135	104	AS 100135	50	LS 100135	GS 81120	WS 81120	350
																110	AXK 110145	122	AS 110145	55	LS 110145	GS 81122	WS 81122	385
																120	AXK 120155	131	AS 120155	59	LS 120155	GS 81124	WS 81124	415
																130	AXK 130170	205	AS 130170	65	LS 130170	GS 81126	WS 81126	663
																140	AXK 140180	219	AS 140180	79	LS 140180	GS 81128	WS 81128	749
																150	AXK 150190	323	AS 150190	84	LS 150190	GS 81130	WS 81130	796
																160	AXK 160200	246	AS 160200	89	LS 160200	GS 81132	WS 81132	842

<sup>1)</sup> limiting speed of grease lubrication.

TN is nylon cage, the running temperature is less than 120°C

<sup>1)</sup> limiting speed of grease lubrication.



Principal Dimensions (mm)								Bearing Designations		Basic Load Ratings (KN)		Limiting Speed
Dc1 d	D1	Dc D	d1	Dw	B1	B	a r min	Eb	Ea	Dynamic Cr	Static Cor	(rpm)
4	-	14	-	2	1	-	-	5	13	4.4	8	21000
5	-	15	-	2	1	-	-	6	14	4.75	9.2	21000
6	-	19	-	2	1	2.75	0.3	7	18	6.8	15.5	19000
8	-	21	-	2	1	2.75	0.3	9	20	7.8	19.4	18000
10	-	24	-	2	1	2.75	0.3	12	23	9.2	25.5	17000
12	-	26	-	2	1	2.75	0.3	14	25	9.9	29	15000
15	16	28	28	2	1	2.75	0.3	17	27	11.3	36	13000
17	18	30	30	2	1	2.75	0.3	19	29	11.9	39.5	12000
20	21	35	35	2	1	2.75	0.3	22	34	13.1	46.5	10000
25	26	42	42	2	1	3	0.6	29	41	14.7	58	8500
30	32	47	47	2	1	3	0.6	34	46	16.3	70	7500
35	37	52	52	2	1	3.5	0.6	39	51	17.8	81	6500
40	42	60	60	3	1	3.5	0.6	45	58	28	114	6000
45	47	65	65	3	1	4	0.6	50	63	30	128	5000
50	52	70	70	3	1	4	0.6	55	68	32	143	4800
55	57	78	78	3	1	5	0.6	60	76	38	186	4300
60	62	85	85	3	1	4.75	1	65	83	44.5	234	4000
65	67	90	90	3	1	5.25	1	70	88	46.5	255	3700
70	72	95	95	4	1	5.25	1	74	93	54	255	3500
75	77	100	100	4	1	5.75	1	79	98	55	265	3300
80	82	105	105	4	1	5.75	1	84	103	56	280	3100
85	87	110	110	4	1	5.75	1	89	108	58	290	3000
90	92	120	120	4	1	6.5	1	94	118	73	405	2700
100	102	135	135	4	1	7	1	105	133	91	560	2500
110	112	145	145	4	1	7	1	115	143	97	620	2300
120	122	155	155	4	1	7	1	125	153	102	680	2100
130	132	170	170	5	1	9	1	136	167	133	840	1900
140	142	180	178	5	1	9.5	1	146	177	138	900	1800
150	152	190	188	5	1	9.5	1	156	187	143	960	1700
160	162	200	198	5	1	9.5	1	166	197	148	1020	1600