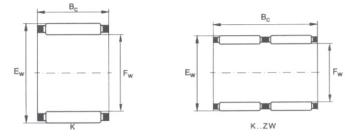
Needle Roller Bearings

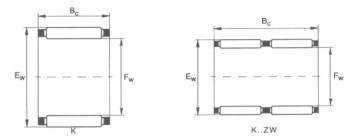
Both metric type and inch type needle roller bearings have various design types, common types include: needle roller bearings with solid rings, drawn cup needle roller bearings, radial needles & cage assemblies, thrust needle roller bearings, thrust needle rollers & cage assemblies, etc.

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.

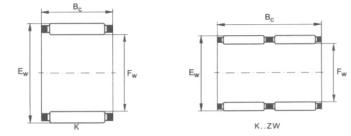


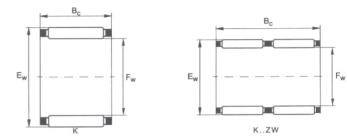




Shaft Diameter	Bearing Designations	Weight (g)	Princ	ipal Dimer (mm)	nsions	Basic Load (KN	l Ratings I)	Limiting Speed (rpm)	Shaft Diameter	Bearing	Weight (g)	Princi	pal Dimer (mm)	nsions	Basic Loa (Ki		Limiting Speed (rpm)
(mm)	Designations	(9)	Fw	Ew	Bc	Dynamic Cr	Static Cor	Oil lubrication	(mm)	Designations	(9)	Fw	Ew	Bc	Dynamic Cr	Static Cor	Oil lubrication
	K3×5×7 TN	0.3	3	5	7	1.54	1.29	50000		K14×18×10	4	14	18	10	7.1	8.5	25000
3	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	14	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		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
5	K5×8×10 TN	0.9	5	8	10	2.8	2.45	39000		K15×19×10	5.1	15	19	10	7.5	9.2	25000
	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
6	K6×9×10 TN	1	6	9	10	3.3	3.1	37000	15	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
	K7×9×7 TN	0.6	7	9	7	1.73	1.77	35000		K15×21×15	13	15	21	15	14.3	16.4	24000
7	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		K16×20×10	5.7	16	20	10	7.8	9.9	24000
	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
8	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
0	K8×11×13 TN	1.8	8	11	13	5	5.7	32000	16	K16×22×12	10.4	16	22	12	11.5	12.5	23000
	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
9	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
9	K9×12×13 TN	1.9	9	12	13	5.5	6.7	31000		K16×24×20	24.9	16	24	20	21.4	23.5	22000
	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	17	K17×21×13	6.5	17	21	13	10.4	14.6	23000
10	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		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
	K12×15×10 TN	1.9	12	15	10	4.32	5.73	27000	18	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
12	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		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
TN is ny	lon cage, the running t	emperature is les							19	K19×23×17	11	19	23	17	12.5	19.2	22000

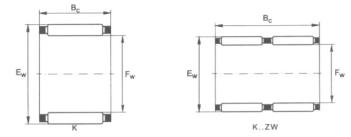


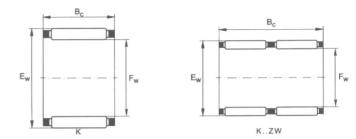




Shaft Diameter	Bearing	Weight	Princi	pal Dimer (mm)	nsions	Basic Loa (Kl	d Ratings N)	Limiting Speed (rpm)		Shaft Diameter	Bearing	Weight	Princi	pal Dime (mm)	nsions	Basic Loa (Kl		Limiting Speed (rpm)
(mm)	Designations	(g)	Fw	Ew	Bc	Dynamic Cr	Static Cor	Oil lubrication		(mm)	Designations	(g)	Fw	Ew	Bc	Dynamic Cr	Static Cor	Oil lubrication
	K20×24×10	6.5	20	24	10	8.9	12.6	21000			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
20	K20×26×17	16	20	26	17	19.2	26	21000		25	K25×30×26 ZW	19	25	30	26	21.4	35.5	18000
	K20×26×20	19	20	26	20	21.1	29	21000		20	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
	K20×30×30	49	20	30	30	35.5	41.5	20000			K25×33×24	39	25	33	24	34	47	17000
21	K21×25×13	9	21	25	13	10.1	15.1	21000			K25×35×30	65	25	35	30	47	62	16000
	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		26	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
22	K22×28×17	18	22	28	17	19.4	27	20000			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		28	K28×34×17	24	28	34	17	21.8	33.5	16000
	K22×32×24	43	22	32	24	34	40	18000		20	K28×35×16	24	28	35	16	21.5	29.5	16000
23	K23×35×16 TN	29	23	35	16	24.5	23.9	17000			K28×35×18	27	28	35	18	24	34	16000
	K24×28×10	8.5	24	28	10	9.6	14.8	19000			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
24	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
	K24×30×31 ZW	32	24	30	31	27.5	43.5	18000		30	K30×35×27	30	30	35	27	30.5	59	15000
TN is ny	lon cage, the running	temperature is les	s than 120	ĉ						30	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

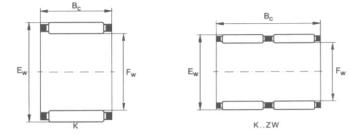


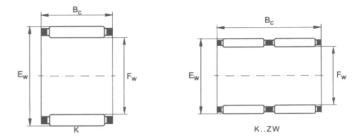


Shaft Diameter (mm)	Bearing Designations	Weight (g)	Princi	pal Dime (mm)	nsions	Basic Loa (Kl	d Ratings N)	Limiting Speed (rpm)		Shaft Diameter	Bearing	Weight (g)	Princ	ipal Dime _(mm)	nsions	Basic Loa (Kl	d Ratings ∖)	Limiting Speed (rpm)
(mm)	Designations	(9)	Fw	Ew	Bc	Dynamic Cr	Static Cor	Oil lubrication		(mm)	Designations	(9)	Fw	Ew	Bc	Dynamic Cr	Static Cor	Oil Iubrication
	K32×37×13	18	32	37	13	15.5	25.5	14000			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		40	K40×45×27	46	40	45	27	33	73	12000
	K32×38×20	30	32	38	20	26.5	45	14000		40	K40×47×18	39	40	47	18	29.5	50	11000
32	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			K42×47×13	18	42	47	13	17.8	33.5	11000
	K32×40×42 ZW TN	77	32	40	42	50	84	14000		42	K42×47×17	32	42	47	17	21.7	43	11000
	K32×46×32	119	32	46	32	66	84	13000		42	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		40	K43×48×17	30	43	48	17	21.6	43	11000
	K35×40×25	31	35	40	25	29.5	60	13000		43	K43×48×27	50	43	48	27	33.5	75	11000
	K35×40×27 TN	39	35	40	27	25	48.5	13000			K45×50×17	34	45	50	17	22.5	46	10000
35	K35×42×16	34	35	42	16	24.4	37.5	13000			K45×50×27	51	45	50	27	34.5	80	10000
30	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		45	K45×53×20	55	45	53	20	39	67	10000
	K35×42×30	67	35	42	30	39	68	13000		45	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
	K38×43×17	29	38	43	17	20.5	38.5	12000		47	K47×52×17	35	47	52	17	23.5	49	10000
38	K38×43×27	43	38	43	27	31.5	68	12000		47	K47×52×27	51	47	52	27	35	83	10000
50	38 K38×46×20		38	46	20	35.5	57	12000		TN is py	lon cage, the running	temperature je loe	s than 120	r				
	K38×46×32	76	38	46	32	55	99	12000		11113119	ion oago, ale fulling	comportatione is less	5 11011 120	0				
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

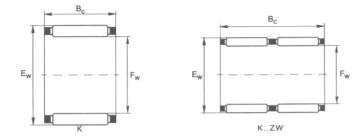


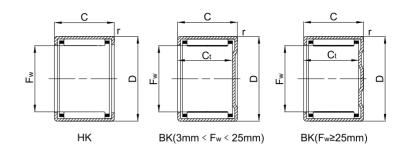




Shaft Diameter	Bearing	Weight (g)	Princ	ipal Dimer (mm)	nsions	Basic Loa (Ki	d Ratings N)	Limiting Speed (rpm)	Shaft Diameter	Bearing	Weight (g)	Princ	ipal Dimer (mm)	nsions	Basic Loa (Kl	d Ratings ∖)	Limiting Speed (rpm)
(mm)	Designations	(9)	Fw	Ew	Bc	Dynamic Cr	Static Cor	Oil lubrication	(mm)	Designations	(9)	Fw	Ew	Bc	Dynamic Cr	Static Cor	Oil lubrication
	K50×55×13.5	30	50	55	13.5	18.2	36.5	9500		K65×70×20	56	65	70	20	30.5	77	7500
	K50×55×17	35	50	55	17	22.1	47	9500	05	K65×70×30	83	65	70	30	44	127.4	7500
	K50×55×20	43	50	55	20	26.5	60	9500	65	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
50	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	68	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		K70×76×20	71	70	76	20	36	86	6500
	K55×60×20	40	55	60	20	28.5	66	8500	70	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	72	K72×80×20	98	72	80	20	41.5	85	6500
55	K55×62×18	52	55	62	18	35.5	70	8500	73	K73×79×20	75	73	79	20	37	90	6500
	K55×63×20	67	55	63	20	40	74	8500		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
	K55×63×32	102	55	63	32	62	130	8500	75	K75×83×23	124	75	83	23	50	109	6000
58	K58×65×18	52	58	65	18	35	70	8000	15	K75×83×30	147	75	83	30	62	143	6000
50	K58×65×36 ZW	127	58	65	36	49	107	8000		K75×83×35 ZW	182	75	83	35	63	147	6000
	K60×65×20	52	60	65	20	29.5	72	8000		K75×83×40 ZW	211	75	83	40	73	177	6000
	K60×65×30	77	60	65	30	42.5	116	8000		K80×86×20	60	80	86	20	38.5	98	6000
	K60×66×33 ZW	104	60	66	33	46	112	8000	80	K80×88×30	138	80	88	30	71	176	6000
	K60×66×40 ZW	116	60	66	40	58	151	8000	00	K80×88×40 ZW	227	80	88	40	76	192	6000
60	K60×68×20	71	60	68	20	43.5	85	7500		K80×88×46 ZW	260	80	88	46	88	231	6000
	K60×68×23	94	60	68	23	49.5	101	7500	85	K85×92×20	102	85	92	20	44.5	108	5500
	K60×68×25	89	60	68	25	53	111	7500		K90×97×20	109	90	97	20	45	113	5000
	K60×68×30 ZW	129	60	68	30	44.5	88	7500	90	K90×98×27	150	90	98	27	61	150	5000
	K60×75×42	240	60	75	42	118	199	7500		K90×98×30	172	90	98	30	68	172	5000
62	K62×70×40 ZW	174	62	70	40	66	146	7500	95	K95×103×30	165	95	103	30	69	180	4900
64	K64×70×16	53	64	70	16	28	60	7500	90	K95×103×40 ZW	266	95	103	40	83	228	4900







Shaft	Bearing	Weight	Princi	ipal Dime (mm)	nsions	Basic Loa	d Ratings	Limiting Speed	Shaft	F	Principa	al Dime (mm)	ensions	;	Open En	d	Close E	End	R
Diameter (mm)	Designations	(g)	Fw	Ew	Bc	Dynamic Cr	Static Cor	(rpm) Oil lubrication	Diameter (mm)	Fw	D	С	Ct min	r min	Bearing Designations	Weight (g)	Bearing Designations	Weight (g)	Ъ
	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	Г
100	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	
	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	
105	K105×112×21	129	105	112	21	47.5	127	4500	6	6	10	8	-	0.4	+HK 0608	2.1	-	-	
110	K110×117×24	172	110	117	24	56	158	4300	0	6	10	9	7.4	0.4	HK 0609	2.5	BK 0609	2.6	
110	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	
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	
120	K120×127×24	165	120	127	24	59	174	4000	0	8	12	10	8.4	0.4	HK 0810	3	BK 0810	3.4	
125	K125×133×35	275	125	133	35	86	260	3800		9	13	8	-	0.4	HK 0908	3	-	-	
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	
135	K135×143×35	300	135	143	35	91	290	3500		9	13	12	10.4	0.4	HK 0912	4.6	BK 0912	4.9	
145	K145×153×26	262	145	153	26	74	225	3300		10	14	10	8.4	0.4	HK 1010	4.1	BK 1010	4.3	
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	
155	K155×163×26	265	155	163	26	75	236	3100		10	14	15	13.4	0.4	HK 1015	6	BK 1015	6.2	
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	
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	
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	
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	
195	K195×205×37	620	195	205	37	133	450	2500		15	21	12	9.3	0.8	HK 1512	11	BK 1512	13	
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	1
220	K220×230×42	790	220	230	42	158	590	2200		15	21	22	-	0.8	HK 1522	20	-	-	1
240	K240×250×42	850	240	250	42	164	630	2000		16	22	12	9.3	0.8	HK 1612	12	BK 1612	14	
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	1
										16	22	22	19.3	0.8	°HK 1622	22	°BK 1622	24	1
									17	17	23	12	-	0.8	HK 1712	12	-	-	

22	22	28	16	13.3	0.8	HK 2216	21	BK
	22	28	20	-	0.8	HK 2220	26	
TN is n	ylon cag	je, the ru	unning te	emperat	ure is le	ss than 120°C		

0.8

0.8

0.8

0.8

0.8

0.8

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.

HK 1812

HK 1816

HK 2010

HK 2012

HK 2016

HK 2020

°HK 2030

HK 2210

HK 2212

13

18

12

14

19

24

35

13

15

18 24

18 24

20

20

20

20

20

22

22

26

26

26

26

26

28

28

18

20

22

12

16

10

12

16

20

30

10

12

9.3 0.8

-

.....

-

-0.8

9.3 0.8

13.3

17.3

13.3

Basic Load Ratings (KN) Speed

Cor

1.31

1.99

2.6

2.6

2.95

3.95 28000

3.75

4.65 25000

6.3

5.1

6.8

8.8

6.2

7.3

7.9

8.5

9.4

14.4

19.5

9.7

15.3

19.4

10.3

17.3

8.2

12.1

20.1

40

10.5

13.4

22.1

ight Dynamic Static

Cr

1.23 0.84

1.78

2.03 1.65

2.85

3.1

3.8

2.75

3.55

4.25

5.3

4.4

5.5

6.8

4.95

6.5

6.8

7.1

7.9

10.5

13.4

7.6

10.9

13.1

15

20 11.6

-

-

22

27

-

-

18

24

-

BK 1812

BK 1816

-

.

BK 2016

BK 2020

-

-

BK 2212

BK 2216

.....

7.9

8.1 10.9

6.4

8.6

12.7

15.7 26

21.8

7.5

9.1

13.4

16.5 29

2.4

(rpm)

46000

41000

38000

35000

35000

31000

28000

25000

25000

23000

23000

23000

20000

19000

18000

16000

16000

16000

16000

15000

15000

15000

14000

13000

13000

12000

12000

12000

12000

12000

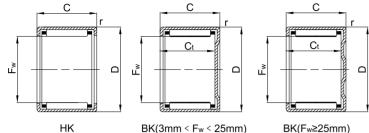
11000

11000

11000

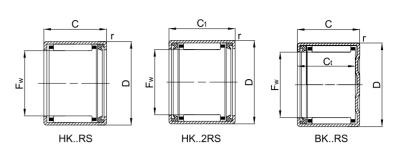
11000

K11



 $BK(3mm < F_w < 25mm)$

BK(F_w≥25mm)

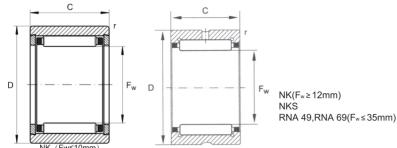


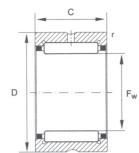
Shaft	F	Principa	al Dime (mm)	ensions	;	Open En	d	Close E	nd	Basic Rating	Load s (KN)		Sha		Prino	cipa	al Din (mm		sions	5		Op	en End		Close E	nd	Basic Rating	Load s (KN)	
Diameter (mm)	Fw	D	С	Ct min	r min	Bearing Designations		Bearing Designations		t Dynamic Cr	Static Cor	(rpm) Oil Iubrication	Diame (mn	neter Im) Fv	v C	D	с		Ct nin r		One Side Sealed Designation	Weigh s ^(g)	t Double Sides Sealed Designations		Bearing Designations		Dynamic Cr	Static Cor	(rpm) Oil Iubricati
	25	32	12	-	0.8	HK 2512	20	-	-	11	15.2	10000	8	8 8	3 1:	2 '	10 1	12	- 1	0.4	HK 0810 R	S 3	HK 0812.2 R	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	0 10) 1·	4 ⁻	12 1	14	- 1	0.4	HK 1012 R	S 4.2	HK 1014.2 RS	5 4.6	-	-	4.4	5.1	17000
25	25	32	20	17.3	0.8	HK 2520	33	BK 2520	38	19.9	33	10000	12	2 1	2 1	8 '	14 1	16	- 1	0.8	HK 1214 R	S 10	HK 1216.2 RS	5 11	-	-	6.5	7.3	14000
	25	32	26	23.3	0.8	HK 2526	44	BK 2526	48	25.5	45	10000	14	4 14	4 2	0 '	14 1	16 1	1.3	8.0	HK 1414 R	S 12	HK 1416.2 R	3 13	BK 1414 RS	13	7.1	8.5	12000
	25	32	38	35.3	0.8	°HK 2538	64	°BK 2538	68	34	66	10000	15	5 1	52	1	14 1	16	- 1	8.0	HK 1514 R	S 12	HK 1516.2 R	3 15	-	-	7.8	9.8	11000
28	28	35	16	-	0.8	HK 2816	29	-	-	16.4	26.5	9000	10		52	1 '	18 2	20	- 1	8.0	HK 1518 R	S 16	HK 1520.2 RS	3 18	-	-	10.5	14.4	11000
20	28	35	20	-	0.8	HK 2820	36	-	-	20.9	36	9000	16	6 10	6 2	2 '	14 1	16 1	1.3	0.8	HK 1614 R	S 13	HK 1616.2 RS	5 14	BK 1614 RS	15	7.6	9.7	11000
	30	37	12	9.3	0.8	HK 3012	23	BK 3012	28	12.1	18.2	8500	10		6 2	2 -	- 2	20	- 0	8.0	-	-	HK 1620.2 RS	3 18	-	-	10.9	15.3	11000
	30	37	16	13.3	0.8	HK 3016	31	BK 3016	38	17.2	29	8500	18	8 18	3 2	4 [·]	14 1	16	- 1	8.0	HK 1814 R	S 14	HK 1816.2 RS	S 15	-	-	8.1	10.9	9500
30	30	37	20	17.3	0.8	HK 3020	39	BK 3020	47	22	39.5	8500	20	20) 2	6 -	- 1	16	- 1	0.8	-	-	HK 2016.2 RS	5 18	-	-	8.6	12.1	8500
	30	37	26	23.3	0.8	HK 3026	51	BK 3026	58	28	54	8500	20	20) 2	6 [·]	18 2	20 1	5.3	8.0	HK 2018 R	S 21	HK 2020.2 RS	3 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	2	2 2	8 '	14 1	16	- 0	8.0	HK 2214 R	S 16	HK 2216.2 RS	3 18	-	-	9.1	13.4	8000
	35	42	12	-	0.8	HK 3512	27	-	-	13.1	21.3	7500	22	2	2 2	8 ·	18 2	20	- 1	8.0	HK 2218 R	S 24	HK 2220.2 RS	3 26	-	-	13.4	22.1	8000
35	35	42	16	-	0.8	HK 3516	36	-	-	18.7	33.5	7500		2	5 3	2 -	- ′	16	- 1	0.8	-	-	HK 2516.2 R	S 27	-	-	11	15.2	7000
	35	42	20	17.3	0.8	HK 3520	44	BK 3520	53	23.8	46	7500	25	2	5 3	2 '	18 2	20 1	5.3	0.8	HK 2518 R	S 29	HK 2520.2 R	3 31	BK 2518 RS	34	15.6	24	7000
	40	47	12	-	0.8	HK 4012	30	-	-	14	24.3	6500	20	2	5 3	2 -	- 2	24	- 0	8.0	-	-	HK 2524.2 RS	5 40	-	-	19.9	33	7000
40	40	47	16	-	0.8	HK 4016	39	-	-	20	38.5	6500		2	5 3	2 -	- 3	30	- 1	8.0	-	-	HK 2530.2 RS	3 47	-	-	25.5	45	7000
	40	47	20	17.3	0.8	HK 4020	54	BK 4020	62	25.5	52	6500	28	8 28	3 3	5 1	18 2	20	- 1	0.8	HK 2818 R	S 31	HK 2820.2 R	3 4	-	-	16.4	26.5	6000
	45	52	12	-	0.8	HK 4512	33	-	-	14.9	27.5	6500		30	3	7 -	- 1	16	- 1	8.0	-	-	HK 3016.2 RS	3 31	-	-	12.1	18.2	6000
45	45	52	16	-	0.8	HK 4516	46	-	-	21.3	43	6500	30	0 30	3	7 [.]	18 2	20	- 0	8.0	HK 3018 R	S 37	HK 3020.2 RS	3 6	-	-	17.2	29	6000
	45	52	20	17.3	0.8	HK 4520	56	BK 4520	72	27	59	6500		30	3	7 -	- 2	24	- 1	8.0	-	-	HK 3024.2 RS	S 44	-	-	22	39.5	6000
50	50	58	20	-	0.8	HK 5020	70	-	-	31	63	5000	35	5 3	5 4	2 -	- '	16	- 1	0.8	-	-	HK 3516.2 R	3 2	-	-	13.1	21.3	5000
50	50	58	25	-	0.8	HK 5025	90	-	-	38.5	84	5000	30	3	5 4	2 '	18 2	20	- 1	8.0	HK 3518 R	S 39	HK 3520.2 RS	3 41	-	-	18.7	33.5	5000
55	55	63	20	-	0.8	HK 5520	74	-	-	31.5	67	4700	40	. 40) 4 ⁻	7 -	- /	16	- 1	0.8	-	-	HK 4016.2 RS	3 37	-	-	14	24.3	4500
55	55	63	28	-	0.8	HK 5528	105	-	-	44	103	4700	40) 4	7 [.]	18 2	20	- 1	8.0	HK 4018 R	S 45	HK 4020.2 RS	5 48	-	-	20	38.5	4500
	60	68	12	-	0.8	HK 6012	49	-	-	17.4	32	4400	45	5 4	5 5	2	18 2	20	- 0	0.8	HK 4518 R	S 50	HK 4520.2 RS	5 54	-	-	21.3	43	4000
60	60	68	20	-	0.8	HK 6020	81	-	-	33.5	75	4400	50	0 50	0 5	8 2	22 2	24	- 1	0.8	HK 5022 R	S 76	HK 5024.2 RS	81	-	-	31	63	3600
	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.

UBC Needle Roller Bearings Without Inner Ring





NK(F_w≥12mm) NKS RNA 49,RNA 69(F_w≤35mm)

bit mit v matrix v matrix Raing KNA Raing KNA RNA Way No. Special Specia Special Special			N	IK (Fw	≤10mm)																					
fmm Fw D C mn NK RNA49	Shaft				sions	Be	earing Desig	inations		Basic Rating	c Load gs (KN)	Speed	S		Princi			sions		Be	aring Desigr	ations		Basio Rating	Load Js (KN)	
5 5 10 12 10.5 +HK \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$			D	С	r min	NK	RNA49	RNA69							Fw	D	С	r min	NK	RNA49	RNA69	NKS				(rpm) Oil lubrication
5 10 12 0.1 ************************************	_	5	10	10	0.15	+NK 5/10 TN	-	-	3.1	2.65	1.92	37000			20	28	16	0.3	NK 20/16	-	-	-	27	13	17.5	20000
n n	э	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
b 12 12 12 1.5 + NK N12 I N - b 2 3.5 3.16 3.00 7 7 14 12 0.3 + NK 712 TN - 6.8 2.85 2.65 3.00 8 8 15 16 0.3 + NK 712 TN - 8.8 3.05 3.16 3.00 9 9 15 16 0.3 + NK 816 TN - - 8.8 3.00 9 9 15 16 0.3 + NK 816 TN - 12.5 5.8 2000 10 17 12 0.3 + NK 917 TN - 10.3 4.5 2 2000 10 17 16 0.3 + NK 1017 TN - 10.1 4.7 2 5.5 2 700 11 10 17 16 0.3 NK 12/16 - - 10.4 17.5 2 400 12 10 10 10.5 1	_	6	12	10	0.15	+NK 6/10 TN	-	-	4.7	2.6	2.28	33000		20	20	28	13	0.3	-	RNA 4902	-	-	21.7	10.6	13.6	22000
7 7 14 12 0.3 ++K 7/12 TN . 6 8.2 3.6 3.00 8 8 15 12 0.3 ++K 8/12 TN . 6.8 3.00 7.1 2.00 3.0 K12/10 . 6.30 K12/10 . 6.30 17.1 25.5 22000 9 9 16 12 0.3 ++K 8/12 TN . 10.3 4.5 5 28000 10 10 17 16 0.3 ++K 8/16 TN . 10.3 4.5 5 28000 10 10 17 16 0.3 ++K 9/16 TN . 11.4 27.00 22.3 3.3 . RN 4903 . 22.4 17.1 24.5 22.0 10 10.5 NK 21/16 . 10.4 17.5 27.000 22.3 10.0 NK 21/16 . 10.4 17.5 27.000 22.4 10.0 NK 21/16 . 10.4 11.5 27.000 22.5 10.0 NK 21/16 . 10.5 10.5	6	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
8 15 12 0.3 ++K 8/12 TN . 1 8.7 3.95 4.1 29000 9 9 16 16 0.3 ++K 8/16 TN . 1 2 5 5 29000 9 9 16 16 0.3 ++K 8/16 TN . . 12 5 5 28000 10 10 17 16 16 0.3 ++K 8/16 TN . . 12.8 5 7.1 28000 10 10 17 16 0.3 ++K 10/16 TN . . 12.8 5.5 27000 12 12 19 16 0.3 NK 12/12 . . 12.1 6.4 7.1 28000 14 12 19 10 0.3 NK 12/12 . . 12.1 6.4 7.1 28000 14 22 10 0.3 NK 12/16 . 12.1 6.4	_	7	14	10	0.3	+NK 7/10 TN	-	-	6.9	2.85	2.65	31000			20	32	20	0.6	-	-	-	NKS 20	48.7	23	25	19000
8 15 15 15 15 15 15 15 15 16 0.3 ************************************	(7	14	12	0.3	+NK 7/12 TN	-	-	8.2	3.65	3.6	31000		21	21	29	16	0.3	NK 21/16	-	-	-	28.1	13.5	18.7	20000
n n	0	8	15	12	0.3	+NK 8/12 TN	-	-	8.7	3.95	4.1	29000		21	21	29	20	0.3	NK 21/20	-	-	-	35.2	17.1	25.5	20000
9 16 16 0.3 +NK 9/16 TN 12.8 5.9 7.1 2800 10 17 12 0.3 +NK 10/12 TN 10.1 4.76 5.5 2700 12 13.0 17 16 0.3 +NK 10/12 TN 13.3 6.2 7.8 2700 12 12 19 16 0.3 NK 12/12 12.1 6.4 7.1 25000 14 12 19 16 0.3 NK 12/16 12.1 6.4 7.1 25000 14 22 16 0.3 NK 24/16 15.2 2000 3 NK 24/20 NK 34/30	0	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
n n	0	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
10 17 16 0.3 +NK 10/16 TN . 1.3.3 6.2 7.8 2700 12 19 12 0.3 NK 12/12 . 12.1 6.4 7.1 25000 12 19 16 0.3 NK 12/16 . 11.1 25000 24 32 16 0.3 NK 24/16 . . 31.9 15.2 23.0 16 0.3 NK 24/16 . . . 31.9 15.2 23.0 14 22 16 0.3 NK 14/16 . 2.5 12.8 15.2 24000 14 22 13 0.3 NK 14/20 . 2.5 12.8 15.8 2.000 2.5 33 16 0.3 NK 25/16 . . N.6 2.8 1.0 2.5 1.0 1.0 1.0 1.0 1.0 2.0 2.000 3 NK 25/16 </td <td>9</td> <td>9</td> <td>16</td> <td>16</td> <td>0.3</td> <td>+NK 9/16 TN</td> <td>-</td> <td>-</td> <td>12.8</td> <td>5.9</td> <td>7.1</td> <td>28000</td> <td></td> <td>22</td> <td>22</td> <td>30</td> <td>13</td> <td>0.3</td> <td>-</td> <td>RNA 4903</td> <td>-</td> <td>-</td> <td>22.2</td> <td>11</td> <td>14.6</td> <td>21000</td>	9	9	16	16	0.3	+NK 9/16 TN	-	-	12.8	5.9	7.1	28000		22	22	30	13	0.3	-	RNA 4903	-	-	22.2	11	14.6	21000
10 17 16 0.3 +HK 10/16 TN . 13.3 6.2 7.8 27000 12 19 12 0.3 NK 12/12 . 13.3 6.2 7.8 27000 12 19 16 0.3 NK 12/12 . 15.9 9 11 25000 14 22 16 0.3 NK 12/16 . 15.9 9 11 25000 14 22 16 0.3 NK 12/16 . 20.7 10.1 11.5 24000 14 22 13 0.3 NK 14/20 . 20.7 10.1 11.5 24000 15 23 20 0.3 NK 24/20 . NK 52/4 85.7 92 9300 15 23 20 0.3 NK 25/20 . 20.7 20.7 20.00 . 10.0 30.7 20.7 20.00 . 10.0 30.7 10.0 30.7 <td>40</td> <td>10</td> <td>17</td> <td>12</td> <td>0.3</td> <td>+NK 10/12 TN</td> <td>-</td> <td>-</td> <td>10.1</td> <td>4.75</td> <td>5.5</td> <td>27000</td> <td></td> <td></td> <td>22</td> <td>30</td> <td>23</td> <td>0.3</td> <td>-</td> <td>-</td> <td>RNA 6903</td> <td>-</td> <td>42.4</td> <td>18.6</td> <td>29</td> <td>19000</td>	40	10	17	12	0.3	+NK 10/12 TN	-	-	10.1	4.75	5.5	27000			22	30	23	0.3	-	-	RNA 6903	-	42.4	18.6	29	19000
12 19 16 0.3 NK 12/16 - 15.9 9 11 2500 14 22 16 0.3 NK 14/16 - - 20.7 10.1 15.5 20.7 10.1 15.5 20.7 10.1 11.5 24000 14 14 22 10.3 NK 14/16 - - 20.7 10.1 11.5 24000 14 14 22 10.3 NK 14/16 - - 20.7 10.1 15.5 20.0 20.7	10	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 19 16 0.3 NK 12/16 15.9 9 11 25000 14 122 16 0.3 NK 14/16 20.7 10.1 11.5 24000 14 22 13 0.3 NK 14/20 20.7 10.1 11.5 24000 14 22 13 0.3 NK 14/20 20.7 10.1 11.5 24000 14 22 13 0.3 NK 14/20 20.7 10.5 8.5 9.2 25000 15 23 16 0.3 NK 15/16 21.8 10.7 12.7 23000 15 23 20 0.3 NK 16/16 22.4 13.3 13.9 22000 16 24 13 0.3 NK 16/16 22.4 13.3 13.9 22000 16 24 20 0.3 NK 26/16	40	12	19	12	0.3	NK 12/12	-	-	12.1	6.4	7.1	25000			24	32	16	0.3	NK 24/16	-	-	-	31.9	15	22.3	18000
14 22 0.3 NK 14/20 - - 25.5 12.8 15.8 24000 14 22 13 0.3 NK 14/20 RNA 4900 - 16.5 8.5 9.2 25000 15 23 16 0.3 NK 15/16 - - 21.8 10.7 12.7 2000 15 23 20 0.3 NK 15/16 - - 21.8 10.7 12.7 2000 16 24 16 0.3 NK 16/20 - - 22.4 11.3 13.9 22000 16 24 13 0.3 NK 16/20 - - RNA 4901 17.4 23.0 2000 16 24 13 0.3 NK 16/20 - RNA 4901 17.4 24.0 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000	12	12	19	16	0.3	NK 12/16	-	-	15.9	9	11	25000		24	24	32	20	0.3	NK 24/20	-	-	-	40	19	30.5	18000
14 22 13 0.3 ··· RNA 4900 ·· 165 8.5 9.2 25000 15 23 16 0.3 NK 15/16 ·· 21.8 10.7 12.7 23000 15 23 20 0.3 NK 15/20 ·· 26.6 13.5 17.4 23000 16 24 16 0.3 NK 15/20 ·· 22.4 13.3 17.4 23000 16 24 16 0.3 NK 16/16 ·· 2.2 13.3 2.0 2.0 2.0 0.3 NK 2520 0.0 RNA 4900 10.0 3.0 17.4 23000 16 24 16.0 0.3 NK 16/16 ·· 2.0 2.0 2.000		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
15 23 16 0.3 NK 15/16 - - 21.8 10.7 12.7 23000 15 23 20 0.3 NK 15/20 - 26.6 13.5 17.4 23000 16 24 16 0.3 NK 15/20 - 22.4 11.3 13.9 22000 16 24 16 0.3 NK 16/16 - - 22.4 11.3 13.9 22000 16 24 13 0.3 - RNA 4904 - - 0.0 36 51 16 16 24 13 0.3 - RNA 4901 - 22.4 11.3 13.9 22000 16 24 13 0.3 - RNA 4901 - 16.4 24.0 20.3 NK 15/16 - - 23.7 11.9 15.7 22000 17 17 25 16 0.3 NK 17/16 - 23.7 11.9 15.7 22000 17 17 25 20 0	14	14	22	20	0.3	NK 14/20	-	-	25.5	12.8	15.8	24000			25	33	16	0.3	NK 25/16	-	-	-	32.6	14.9	22.4	17000
15 23 20 0.3 NK 15/20 - 26.6 13.5 17.4 2300 16 24 16 0.3 NK 16/16 - 2.2 11.3 13.9 2200 16 24 16 0.3 NK 16/20 - 28.4 14.4 18.8 2200 16 24 13 0.3 - RNA 4901 - 17.4 9.4 10.9 2400 16 24 13 0.3 - RNA 4901 - 17.4 9.4 10.9 2400 16 24 23 0.3 NK 26/16 - - NK 26/20 - - NK 32.0 3.5 1.6 16 24 22 0.3 NK 16/20 - RNA 4901 17.4 9.4 10.9 24000 17 25 16 0.3 NK 17/16 - RNA 6901 16.2 21.00 2000 3 NK 26/20 - - - - - - - - - - -<		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 23 20 0.3 NK 15/20 - 26. 13.5 17.4 2300 16 24 16 0.3 NK 16/16 - 2.6 13.5 17.4 2300 16 24 16 0.3 NK 16/16 - 2.2.4 11.3 13.9 2200 16 24 20 0.3 NK 16/20 - 2.4.4 13.9 2200 16 24 13 0.3 - RNA 4901 - 2.4.4 18.8 2000 16 24 13 0.3 - RNA 4901 - 17.4 9.4 2000 17.4 24 24 24 23 0.3 NK 26/20 - - 0.4 24.9 24.00 17.4 2.0 2.000 3 NK 28/20 - 0.3 NK 28/20 0.3 NK 28/20 0.3 NK 28/20 0.3 0.3	15	15	23	16	0.3	NK 15/16	-	-	21.8	10.7	12.7	23000		25	25	37	17	0.3	-	RNA 4904	-	-	52.3	21	25.5	17000
16 24 20 0.3 NK 16/20 RNA 4901 RNA 4901 17.4 9.4 10.9 2400 26 34 16 0.3 NK 26/16 RNA 4901 RNA 4901 17.4 9.4 10.9 24000 16 24 22 0.3 RNA 4901 RNA 6901 31 6 21.6 22.00 NK 26/16 4	15	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 24 13 0.3 RNA 4901 17.4 9.4 10.9 24000 16 24 22 0.3 RNA 4901 31 16 21.6 22000 NK 26/20 RNA 4901 31 16 21.6 22000 NK 26/20 RNA 4901 31 16 21.6 22000 NK 26/20 RNA 4901 <t< td=""><td></td><td>16</td><td>24</td><td>16</td><td>0.3</td><td>NK 16/16</td><td>-</td><td>-</td><td>22.4</td><td>11.3</td><td>13.9</td><td>22000</td><td></td><td></td><td>25</td><td>38</td><td>20</td><td>0.6</td><td>-</td><td>-</td><td>-</td><td>NKS 25</td><td>68.1</td><td>27.5</td><td>33.5</td><td>16000</td></t<>		16	24	16	0.3	NK 16/16	-	-	22.4	11.3	13.9	22000			25	38	20	0.6	-	-	-	NKS 25	68.1	27.5	33.5	16000
16 24 13 0.3 RNA 4901 17.4 9.4 10.9 24000 16 24 22 0.3 RNA 4901 31 16 21.6 22000 17 25 16 0.3 NK 17/16 RNA 6901 31 16 21.6 22000 17 25 20 0.3 NK 17/16 23.7 11.9 15 22000 17 25 20 0.3 NK 17/16 29.8 15.1 20.4 2000 18 26 16 0.3 NK 18/16 29.8 15.1 20.4 21000 19 19 27 16 0.3 NK 18/20 21.5 16.2 21000 19 19 27 16 0.3 NK 18/20 21.5 16.2 21.000 19 19 27 16 0.3 NK 18/20 21.5 16.2 21.000 21.000 21.000 21.000 <	16	16	24	20	0.3	NK 16/20	-	-	28.4	14.4	18.8	22000		26	26	34	16	0.3	NK 26/16	-	-	-	34	15.3	23.6	16000
17 25 16 0.3 NK 17/16 - 23.7 1.9 15 2200 17 25 20 0.3 NK 17/20 - 29.8 15.1 20.4 2200 18 26 16 0.3 NK 17/20 - 29.8 15.1 20.0 20.00	10	16	24	13	0.3	-	RNA 4901	-	17.4	9.4	10.9	24000		20	26	34	20	0.3	NK 26/20	-	-	-	42	19.4	32	16000
17 25 20 0.3 NK 17/20 - 29.8 15.1 20.4 2200 18 26 16 0.3 NK 17/20 - 29.8 15.1 20.4 2200 18 26 16 0.3 NK 18/16 - 24.9 16.2 2100 18 26 20 0.3 NK 18/20 - 0.4 15.8 22.00 2100 19 27 16 0.3 NK 18/20 - 26.1 13.4 15.8 22.00 21000 19 27 16 0.3 NK 19/16 - 26.1 13.4 15.8 22.0 21000 19 27 16 0.3 NK 19/16 - 26.1 13.4 17.4 21000 19 27 28 20.03 NK 29/20 0.6 0.		16	24	22	0.3	-	-	RNA 6901	31	16	21.6	22000			28	37	20	0.3	NK 28/20	-	-	-	52.2	22	34	15000
Indication <td>17</td> <td>17</td> <td>25</td> <td>16</td> <td>0.3</td> <td>NK 17/16</td> <td>-</td> <td>-</td> <td>23.7</td> <td>11.9</td> <td>15</td> <td>22000</td> <td></td> <td></td> <td>28</td> <td>37</td> <td>30</td> <td>0.3</td> <td>NK 28/30</td> <td>-</td> <td>-</td> <td>-</td> <td>82</td> <td>33</td> <td>57</td> <td>15000</td>	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
18 26 20 0.3 NK 18/20 - 31.4 15.8 22 2100 19 27 16 0.3 NK 19/20 - 26.1 13.4 17.4 2100 19 27 20 0.3 NK 19/20 - 26.1 13.4 17.4 2100 19 27 20 0.3 NK 19/20 - - 26.1 13.4 17.4 2100 19 27 20 0.3 NK 29/20 - - - - 50.0 - - - - 10.0 20.0 30.0 NK 29/20 - - - 50.0 21.0 30.0 10.0 - - - NK 528 83.0 28.0 10.0 - - - NK 528 30.0 10.0 - 10.0 - 10.0 - 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.		17	25	20	0.3	NK 17/20	-	-	29.8	15.1	20.4	22000		28	28	39	17	0.3	-	RNA 49/22	-	-	50.2	22.8	29.5	16000
18 26 20 0.3 NK 18/20 - 31.4 15.8 22 2100 19 27 16 0.3 NK 19/16 - 26.1 13 17.4 2100 19 27 16 0.3 NK 19/16 - 26.1 13 17.4 2100 19 27 20 0.3 NK 19/16 - 26.1 13 17.4 2100 19 27 20 0.3 NK 19/20 - 26.1 13.4 17.4 2100 19 27 20 0.3 NK 19/20 - 26.3 36.0 21.00 10 27 20 0.3 NK 19/20 - - 6.5 21.00	10	18	26	16	0.3	NK 18/16	-	-	24.9	12.5	16.2	21000			28	39	30	0.3	-	-	RNA 69/22	-	98	37.5	55	15000
19 27 20 0.3 NK 19/20 - 32.2 16.5 23.6 2100 2 6 30 0.3 NK 29/30 - - 84.3 32.5 57 15 TN is nylor cage. the running temperature is less than 120°C - - - - - 61 22.6 36 21000 - - - 61 22.6 57 15 TN is nylor cage. the running temperature is less than 120°C - - - 61 22.6 36 21.000 - - 61 22.6 36 14	18	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 27 20 0.3 NK 19/20 - 32.2 16.5 23.6 2100 TN is nylon cage, the running temperature is less than 12°C - 32.2 16.5 23.6 2100 - 57 15	10	19	27	16	0.3	NK 19/16	-	-	26.1	13	17.4	21000		20	29	38	20	0.3	NK 29/20	-	-	-	50	21.9	34	15000
This hybridge, the full hing temperature is less than 1200	19	19	27	20	0.3	NK 19/20	-	-	32.2	16.5	23.6	21000		29	29	38	30	0.3	NK 29/30	-	-	-	84.3	32.5	57	15000
	TN is n	vlon cao	ie, the ru	unnina t	emperat	ure is less than 12	20°C								30	40	20	0.3	NK 30/20	-	-	-	61	22.6	36	14000
								g, without lubri	cation gr	oove and	l lubricati	ion holes.			30	40	30	0.3	NK 30/30	-	-	-	92.4	33.5	60	14000

30

32

30 42 17 0.3

30 42 30 0.3

30 45 22 0.6

32 42 30 0.3

32 45 17 0.3

32 45 30 0.3

32 47 22 0.6

20 0.3

32 42

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NK 32/20

NK 32/30

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RNA 4905

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RNA 49/28

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RNA 6905

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RNA 69/28

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NKS 30

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NKS 32

61

112

104

68

102

110

¹²⁰⁰⁰ K15

15000

14000

13000

13000

13000

13000

13000

31.5

59

40

37.5

33.5

23.6

39

32

23.1

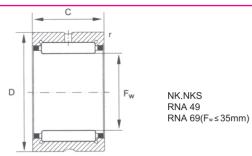
34.5 63

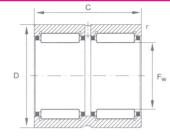
73.5 40.5 63

33.5 43.5

73.2 24.4

UBC Needle Roller Bearings Without Inner Ring





RNA69 (Fw≥40mm)

Shaft Diamete			Dimer mm)	nsions		Bear	ing Designat	ions		Basic Rating	: Load Is (KN)	Limiting Speed	Shaft Diameter	Princ	xipal Di (mr		sions		Bear	ing Designat	ions		Basic Rating	Load s (KN)	Limiting Speed
(mm)	Fw	D	С	r min	NK	RNA49	RNA69	NKS	Weight (g)	Dynamic Cr	Static Cor	(rpm) Oil lubrication	(mm)	Fw	D	С	r min	NK	RNA49	RNA69	NKS	Weight (g)	Dynamic Cr	Static Cor	(rpm) Oil Iubrication
	35	45	20	0.3	NK 35/20	-	-	-	69.4	24.3	41.5	12000		60	72	25	0.6	NK 60/25	-	-	-	170	42	90	7500
	35	45	30	0.3	NK 35/30	-	-	-	106	36.5	69	12000	60	60	72	35	0.6	NK 60/35	-	-	-	258	56	130	7500
	35	47	17	0.3	-	RNA 4906	-	-	69.4	25	35.5	13000		60	80	28	1.1	-	-	-	NKS 60	335	63	98	7000
35	35	47	30	0.3	-	-	RNA 6906	-	126	43.5	71	12000	63	63	80	25	1	-	RNA 4911	-	-	255	58	100	7500
	35	50	22	0.6	-	-	-	NKS 35	118	35	47	12000		63	80	45	1	•	-	RNA 6911	-	470	90	176	7000
	37	47	20	0.3	NK 37/20	-	-	-	77	24.9	43.5	12000		65	78	25	0.6	NK 65/25	-	-	-	221	44	98	7000
	37	47	30	0.3	NK 37/30	-	-	-	113	37	73	12000	65	65	78	35	0.6	NK 65/35	-	-	-	310	59	142	7000
37	37	52	22	0.6	-	-	-	NKS 37	123	36.5	50	11000		65	85	28	1.1	•	-	-	NKS 65	356	67	108	6500
	38	48	20	0.3	NK 38/20	-	-	-	79.4	25.5	45	11000		68	82	25	0.6	NK 68/25	-	-	-	241	43.5	89	6500
38	38	48	30	0.3	NK 38/30	-	-	-	116	38	76	11000	68	68	82	35	0.6	NK 68/35	-	-	-	338	62	139	6500
	40	50	20	0.3	NK 40/20	-	-	-	78	26	47	11000	00	68	85	25	1	-	RNA 4912	-	-	275	60	108	7000
	40	50	30	0.3	NK 40/30	-	-	-	125	39	79	11000		68	85	45	1	-	-	RNA 6912	-	488	94	191	6500
	40	52	20	0.6	-	RNA 49/32	-	-	89.1	30.5	47.5	12000		70	85	25	0.6	NK 70/25	-	-	-	260	44.5	92	6500
40	40	52	36	0.6	-	-	RNA 69/32	-	162	47	82	11000	70	70		35	0.6	NK 70/35	-	-	-	370	63	144	6500
	40	55	22	0.6	-	-	-	NKS 40	129	38	54	10000		70	90	28	1.1	-	-	-	NKS 70	380	68	113	6000
	42	52	20	0.3	NK 42/20	-	-	-	85.8	36.5	49	10000	72	72	90	25	1	-	RNA 4913	-	-	312	61	112	6500
	42	52	30	0.3	NK 42/30	-	-	-	130	39.5	82	10000		72	90	45	1	-	-	RNA 6913	-	580	95	198	6000
42	42	55	20	0.6	-	RNA 4907	-	-	107	31.5	50	11000	73	73	90	25	1	NK 73/25	-	-	-	302	53	100	6000
	42	55	_	0.6	-	-	RNA 6907	-	193	48	86	10000		73		35	1	NK 73/35	-	-	-	428	75	156	6000
	43	53	20	0.3	NK 43/20	-	-	-	86	27	51	10000		75	92	25	1	NK 75/25	-	-	-	315	54	104	6000
	43	53	30		NK 43/30	-	-	-	133	40.5	85	10000	75	75	92	35	1	NK 75/35	-	-	-	445	77	162	6000
43	43	58	22	0.6	-	-	-	NKS 43	139	39	57	9500		75		28	1.1	-	-	-	NKS 75	402	71	123	6000
	45	55	20	0.3	NK 45/20	-	-	-	85.3	27.5	53	10000		80	95	25	1	NK 80/25	-	-	-	301	56	119	5500
	45	55	30	0.3	NK 45/30	-	-	-	132	41	88	10000	80	80	95	35	1	NK 80/35	-	-	-	425	78	184	5500
45	45	60	22	0.6	-	-	-	NKS 45	145	40.5	60	9500	00	80	100	30	1	-	RNA 4914	-	-	460	84	156	6000
	47	57	20	0.3	NK 47/20	-	-	-	94.5	28.5	56	9500		80	100	54	1	-	-	RNA 6914	-	857	128	265	5500
47	47	57	30	0.3	NK 47/30	-	-	•	142	43	94	9500		85	105	25	1	NK 85/25	-	-	-	425	69	123	5000
	48	62		0.6	-	RNA 4908	-	-	140	43	67	9500	85		_	35	1	NK 85/35	-	-	-	600	98	193	5000
48	48	62	-	0.6	-	-	RNA 6908	•	256	66	116	9000		85	105	30	1	-	RNA 4915	-	-	489	86	162	5500
	50	62	_	0.6	NK 50/25	-	-	-	146	38	74	9000		85	105	54	1		-	RNA 6915	-	935	130	275	5000
	50	62		0.6	NK 50/35	-	-	-	207	50	106	9000		90	110	25	1	NK 90/25	-	-	-	450	72	132	4900
50	50	65	_	1	-	-	-	NKS 50	157	42.5	67	8500	90	90	110	35	1	NK 90/35	-	-	-	630	103	208	4900
	52	68	22	0.6	-	RNA 4909	-	-	182	45	73	8500		90	110	30	1	-	RNA 4916	-	-	516	89	174	5000
52	52	68	_	0.6	-	-	RNA 6909	-	338	69	127	8000		90	110	54	1		-	RNA 6916	-	987	135	300	4900
	55	68			NK 55/25	-	-	-	180	40	82	8000	95	95	115	26	1	NK 95/26	-	-	-	490	73	137	4700
	55	68	_	0.6	NK 55/35	-	-	-	250	53	118	8000		95	115	36	1	NK 95/36	-	-	-	680	107	223	4700
55	55	72	22	1	-	-	-	NKS 55	221	45	74	7500													
	58	72	22	0.6	-	RNA 4910	-	-	163	47	80	8000													
58	58	72	40	0.6	-	-	RNA 6910	-	310	73	139	7500													

RNA 4852

RNA 4856

RNA 4860

RNA 4864

RNA 4868

RNA 4872

RNA 4876

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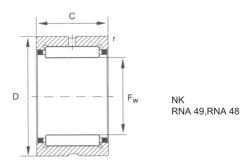
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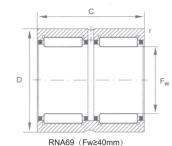
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	Princip	oal Di (mr		ons	В	earing Desig	gnations		Basic Rating	Load s (KN)	Limiting Speed	Shaft Diameter	Prir	ncipal D (m		ions	Bea	aring Designations	5	Basic Rating	Load s (KN)	Limiting Speed
er	Fw	D	С	r min	NK	RNA49	RNA69	Weight (g)	Dynamic Cr	Static Cor	(rpm) Oil lubrication	(mm)	Fw	D	С	r min	RNA49	RNA48	Weight (g)	Dynamic Cr	Static Cor	(rpm) Oil Iubrication
	100 1	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		NK 100/36	-	-	715	111	237	4500	120	120	140	30	1	-	RNA 4822	670	94	216	3800		
	100 120 35 1.1 - 100 120 63 1.1 -				-	RNA 4917	-	657	111	237	4800	125	125	150	40	1.1	RNA 4922	-	1240	132	290	3800
	100 1	120	63	1.1	-	-	RNA 6917	1200	166	400	4500	130	130	150	30	1	-	RNA 4824	730	99	239	3500
105 125 26 1 NK 105/26						-	-	540	78	155	4300	135	135	165	45	1.1	RNA 4924	-	1860	181	390	3400
	105 1	125	36	1	NK 105/36	-	-	713	114	250	4300	145	145	165	35	1.1	-	RNA 4826	990	118	310	3200
	105 1	125	35	1.1	-	RNA 4918	-	745	114	250	4600	150	150	180	50	1.5	RNA 4926	-	2210	203	470	3200
	105 1	125	63	1.1	-	-	RNA 6918	1330	172	425	4300	155	155	175	35	1.1	-	RNA 4828	1050	120	325	3000
	110 1	130	30	1.1	NK 110/30	-	-	650	98	210	4100	160	160	190	50	1.5	RNA 4928	-	2350	209	500	3000
	110 1	130	40	1.1	NK 110/40	-	-	830	127	290	4100	165	165	190	40	1.1	-	RNA 4830	1600	152	400	2800
	110 1	130	35	1.1	-	RNA 4919	-	719	116	260	4400	175	175	200	40	1.1	-	RNA 4832	1700	160	435	2600
	110 1	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

330 380

415 415 480

2.1

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2.1

80 2.1

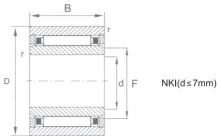
100 2.1

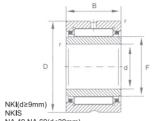
2900 1100

Shaft

Diameter

(mm)





D

NA 49/32

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NA 4907

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NKI 35/30

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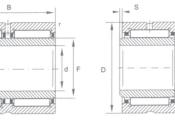
NA 69/32

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NA 6907



158

288 47

122 26

193 39

170

310 48

220 39 57

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NKIS 35

30.5 47.5

31.5 50

82

47

79

86

					1		///////							NA 49.N	IA 69(d≤	30mm)			NA	69(d≥32mm)					
	Shaft	Prin		Dim nm)	ension	6	Bear	ing Designa	itions		Basic Rating	c Load gs (KN)	Limiting Speed	Shaft Diameter	Princ		Dimer Im)	isions		Bearir	ng Designat	ions			: Load gs (KN)	
	iametei (mm)		F D	В	r min S¹) NKI	RNA 49	NA 69	NKIS	Weight (g)	Dynamic Cr	Static Cor	(rpm) Oil Iubrication	(mm)	d F	D	Bn	r hin S ¹⁾	NKI	NA 49	NA 69	NKIS	Weight (g)	Dynamic Cr	Static Cor	I
	5	5	8 15	12	0.3 1.5	5 +NKI 5/12 TN	-	-	-	11.5	3.95	4.1	32000		20 24	4 32	16 0	.3 0.5	NKI 20/16	-	-	-	49	15	22.3	Ĺ
_	<u> </u>		_	-		+NKI 5/16 TN		-	-	15.3	5.1	5.8	32000			_		_	NKI 20/20	-	-	-	61	19	30.5	ſ
	6		_	-		5 +NKI 6/12 TN		-	-	13.5	4.5	5	30000	20	20 2	_		.3 0.8	-	NA 4904	-	-	75.2		25.5	Ĺ
_			_	-		+NKI 6/16 TN		-	-	17.4	5.9	7.1	30000		20 2	_		_	-	-	NA 6904	-	141	36	51	f
	7			_		5 +NKI 7/12 TN		-	-	13.7	4.75	5.5	29000			_		.6 0.5	•	-	-	NKIS 20	129	28.5	36.5	L
_			_	-		+NKI 7/16 TN	-	-	-	18.2	6.2	7.8	29000		22 20			.3 0.5		-	-	-	52	15.3	23.6	f
	9	_	_	-	0.3 1.		-	•	-	16.6	6.4	7.1	27000	22	22 20	_		.3 0.5	NKI 22/20	-	-	-	65.4	19.4	32	ŀ
_			_	-	0.3 2	NKI 9/16	-	-	-	21.9	9	11	27000					.3 0.8	-	NA 49/22	-	-	80	22.8	29.5	f
	10		_	_	0.3 0.5		-	-	-		10.1	11.5	25000			_		.3 0.5	-	-	NA 69/22	•	150	37.5	55	H
	10	_	_	_	0.3 0.5		- NA 4900	-	-	37.1 23	12.8 8.5	15.6 9.2	25000 25000		25 29		20 0	.3 1.5	NKI 25/20 NKI 25/30	-	-	-	75.8 124	21.9 32.5	34 57	f
_			_		0.3 0.5		NA 4900	•	-		0.5	9.2	25000	25	25 23			.3 0.8	NKI 23/30	- NA 4905	-	-	88	23.6	31.5	ŀ
					0.3 0.5		-	-	-	41.9	14.4	18.8	24000	25	25 30			_	•	NA 4905	- NA 6905	-	161	23.0 39	59	f
	12	_	_	_	0.3 0.5		NA 4901		-	26	9.4	10.9	24000		25 32	_	22 0	_	-	-	NA 0505	NKIS 25	162	33.5	43.5	ŀ
		_			0.3 1	-	10/4 4501	NA 6901	-	46	3.4 16	21.6	24000		28 3	_		_	- NKJ 28/20	-	-	-	92.4		37.5	ŕ
_			_	-	0.3 0.5		-				13	17.4	22000			_		.3 1.5		-	-	-	146	34.5	63	ľ
		_	_	_	0.3 0.5		-		-	48.7	16.5	23.6	22000	28				.3 0.8	-	NA 49/28	-	-	97.7	24.4	33.5	ſ
	15		_	_	0.3 0.5		NA 4902	-	-	34	10.6	13.6	22000		28 32	_		_	-		NA 69/28	-	182	40.5	63	ľ
					0.3 1	-	-	NA 6902	-	63.6	17.3	25.5	22000			_		.3 0.5	NKI 30/20	-		-	108	24.3	41.5	Ē
			_	-	0.6 0.5	5 -	-	-	NKIS 15	92	24.5	28	20000		30 3	5 45	30 0	.3 1	NKI 30/30	-	-	-	165	36.	69	ľ
_		17 2	21 29	16	0.3 0.5	5 NKI 17/16	-	-	-	42.4	13.5	18.7	21000	30	30 3	5 47	17 0	.3 0.8	-	NA 4906	-	-	101	25	35.5	Ē
		17 2	21 29	20	0.3 0.5	5 NKI 17/20	-	-	-	53.4	17.1	25.5	21000		30 3	5 47	30 0	.3 1	-	-	NA 6906	-	192	43.5	71	ľ
	17	17 2	22 30	13	0.3 0.5	5 -	NA 4903	-	-	37	11	14.6	21000		30 3	7 52	22 0	.6 1	-	-	-	NKIS 30	184	36.5	50	ſ
		17 2	22 30	23	0.3 1	-	-	NA 6903	-	72	18.6	29	21000		32 3	7 47	20 0	.3 0.5	NKI 32/20	-	-	-	118	24.9	43.5	ſ
		17 2	24 37	20	0.6 0.5	5 -	-	-	NKIS 17	98	26	31	18000	32	32 3	7 47	30 0	.3 1	NKI 32/30	-	-	-	180	37	73	ſ

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. 1) Axial displacement of inner ring allowed

1) Axial displacement of inner ring allowed

35 40 50 20 0.3 0.5 NKI 35/20

32 40 52 20 0.6 0.8

32 40 52 36 0.6 0.5

35 40 50 30 0.3 1

35 42 55 20 0.6 0.8

35 42 55 36 0.6 0.5

35 43 58 22 0.6 0.5

35

12000

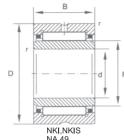
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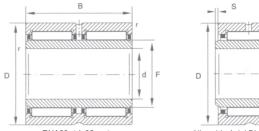
12000

12000

11000

11000





						NKI,M NA 4										-		RNA	.69 (d≥	≥32mm	1)	А	lowable Axia	al Displa	cement		
Shaft	Ρ	rinciț	oa l Dir (mm	mensions n)		Bearing	Designatio	ns		Basic Rating	: Load js (KN)	Limiting Speed		Shaft		Princ	ipa l Dir (mm		ins		E	Bearing Des	signations			c Load gs (KN)) Speed
Diamete (mm)	d	F	D	B r S ¹⁾	NKI	NA 49	NA 69	NKIS	Weight (g)	Dynamic Cr	Static Cor	(rpm) Oil Iubrication		ameter mm)	d	F	D	В	r min	S ¹⁾	NKI	NA 49	NA 69	Weight (g)	Dynamic Cr	Static Cor	(rpm) Oil Iubrication
38	38	43	53 2	20 0.3 0.5	NKI 38/20	-	-	-	136	27	51	11000			70	80	95	25	1.0	0.8	NKI 70/25	-	-	521	56	119	6000
30	38	43	53 3	30 0.3 1.0	NKI 38/30	-	-	-	207	45	85	11000		70	70	80	95	35	1.0	0.8	NKI 70/35	-	-	737	78	184	6000
	40	45	55 2	20 0.3 0.5	NKI 40/20	-	-	-	136	27.5	53	10000	,	10	70	80	100	30	1.0	1.5	-	NA 4914	-	728	84	156	6000
				30 0.3 1.0	NKI 40/30	-	-	-	216	41	88	10000			70	80	100	54	1.0	1.0	-	-	NA 6914	1340	128	265	6000
40	_	_		22 0.6 1.0	•	NA 4908	-	-	230	43	67	9500			75	85	105	25	1.0	1.0	NKI 75/25	-	-	641	69	123	5500
				40 0.6 0.5	•	-	NA 6908	-	430	66	116	9500	7	75	75	85	105	35	1.0	1.0	NKI 75/35	-	-	908	98	193	5500
	-	-		22 1.0 0.5	-	-	-	NKIS 40	281	42.5	67	9500			75	85	105	30	1.0	1.5	-	NA 4915	-	775	86	162	5500
42		-	_	20 0.3 0.5		-	-	-	148	28.5	56	10000			75		105	54	1.0	1.0	-	-	NA 6915	1450	130	275	5500
	_			30 0.3 1.0		-	-	-	222	43	94	10000			80		110	25	1.0		NKI 80/25	-	-	677	72	132	5000
				25 0.6 1.5		-	-	-	217	38	74	9000	8	80	80	90	110	35	1.0	1.0	NKI 80/35	-	-	959	103	208	5000
45	-			35 0.6 2.0 22 0.6 1.0	NKI 45/35	NA 4909	-	-	308 271	50 45	106 73	9000 8500			80	90 90	110 110	30 54	1.0	1.5	-	NA 4916	NA 6916	878 1522	89 135	174 300	5000 5000
45				40 0.6 0.5		NA 4909	- NA 6909	-	495	45 69	127	8500			80 85		115	54 26	1.0 1.0	1.0 1.5	- NKI 85/26	-	NA 0910	743	73	137	4900
	_	_		40 0.0 0.5 22 1.0 0.5	-	-	- NA 0505	NKIS 45	336	45	74	8500			85		115	36	1.0	1.5	NKI 85/36	-	-	1040	107	223	4900
	-	55		25 0.6 1.5		-	-		270	40	82	8500	6	85	85	_	120	35	1.1	1.0	-	NA 4917	-	1250	111	237	4900
	-	55		35 0.6 2.0		-	_	-	379	53	118	8500			85		120	63	1.1	1.0	-	-	NA 6917	2200	166	400	4900
50	50	58		22 0.6 1.0		NA 4910	-	-	274	47	80	8000			95		120	26	1.0	1.5	NKI 90/26	-	-	778	76	146	4700
	50	58	72	40 0.6 0.5		-	NA 6910	-	515	73	139	8000		~~	95	100	120	36	1.0	1.5	NKI 90/36	-	-	1090	111	237	4700
	50	60	80 2	28 1.1 2.0		-	-	NKIS 50	518	63	98	7500	5	90	95	105	125	35	1.1	1.0	-	NA 4918	-	1312	114	250	4600
	55	60	72	25 0.6 1.5	NKI 55/25	-	-	-	255	42	90	7500			95	105	125	63	1.1	1.0	-	-	NA 6918	2310	172	425	4600
	55	60	72 3	35 0.6 2.0	NKI 55/35	-	-	-	379	56	130	7500			95	105	125	26	1.0	1.5	NKI 95/26	-	-	816	78	155	4500
55	55	63	80 2	25 1.0 1.5	-	NA 4911	-	-	393	58	100	7500		95	95	105	125	36	1.0	1.5	NKI 95/36	-	-	1145	114	250	4500
	55	63	80 4	45 1.0 1.5	-	-	NA 6911	-	780	90	176	7500		95	95	110	130	35	1.1	1.0	-	NA 4919	-	1371	116	260	4400
	55	65	85 2	28 1.1 2.0	•	-	-	NKIS 55	558	67	108	7000			95	110	130	63	1.1	1.0	-	-	NA 6919	2500	174	440	4400
	60			25 0.6 1.0		-	-	-	394	43.5	89	7000	Allo	lowab	le axia	displa	cement	of inn	er ring	relative	e to outer ring	3					
	60	68	82 3	35 0.6 1.0	NKI 60/35	-	-	-	553	62	139	7000															
60	60	68		25 1.0 1.5	•	NA 4912	-	-	426	60	108	7000															
		_		45 1.0 1.5	-	-	NA 6912	-	808	94	191	7000															
	-	70		28 1.1 2.0	•	-	-	NKIS 60	560	68	113	6500	-														
				25 1.0 1.0		-	-	-	467	53	100	6500															
	65	73	90 3	35 1.0 1.0	NKI 65/35	-	-	-	659	75	156	6500															

6500

6500

6500

112

198

123

Allowable axial displacement of inner ring relative to outer ring

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65 72 90 25 1.0 1.5

65 72 90 45 1.0 1.5

65 75 95 28 1.1 2.0

NA 4913

-

-

-

NA 6913

-

456 61

833 95

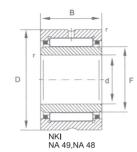
NKIS 65 641 71

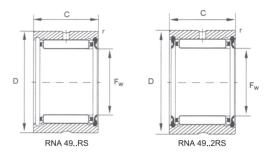
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K22

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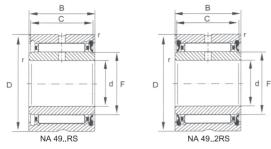




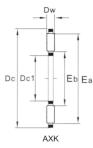


Shaft Diamete (mm)		Princ	cipa l Di (mr		ons		Bearing Designations			Basic Load Ratings (KN)			Limiting Speed	Shaft	Principal Dimensions (mm)			ons	Bearing Designations				Load s (KN)	I) Speed
	d	F	D	В	r min	S ¹⁾	NKI	NA 49	NA 48	Weight (g)	Dynamic Cr		(rpm) Oil ubrication	Diameter (mm)	Fw	D	С	r min	RNA 49RS Single Seal	RNA 49RS Double Seals	Weight (g)	Dynamic Cr	Static Cor	(rpm) Oil Iubrication
	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	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	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	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
100	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	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							Bearing Designations				Basic Load Ratings (KN) Speed			Shaft Diameter	Needle Roller Bearing and Cag				Bearing Designations			
Diamete (mm)		F	D	С	в	r min	NA 49RS Single Seal	NA 49RS Double Seals	Weight (g)	Dynamic Cr	Static Cor	(rpm) Oil Iubrication		(mm)	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
1) limit	ng spe	ed of g	rease	lubric	ation.									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

85

90

100

110

120

130

140

150

160

AXK 80105

AXK 85110

AXK 90120

AXK 110145

AXK 140180

AXK 150190

AXK 100135 104

AXK 120155 131

AXK 130170 205

AXK 160200 246

TN is nylon cage, the running temperature is less than 120 $^\circ\!\!C$ ') limiting speed of grease lubrication.

63

67

86

122

219

323

AS 80105

AS 85110

AS 90120

AS 100135

AS 110145

AS 120155

AS 130170

AS 140180

AS 150190

AS 160200

28

29

39

50

55

59

65

79

84

89

LS 80105

LS 85110

LS 90120

LS 100135

LS 110145

LS 120155

LS 130170

LS 140180

LS 150190

LS 160200

GS 81116

GS 81117

GS 81118

GS 81120

GS 81122

GS 81124

GS 81126

GS 81128

GS 81130

GS 81132

WS 81116

WS 81117

WS 81118

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WS 81124

WS 81126

WS 81128

WS 81130

WS 81132

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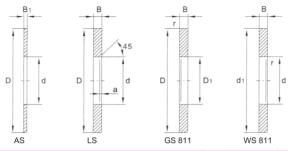
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663

749

796

UBC Thrust Needles & Cage Assemblies / Thrust Bearing Washer



		Р	rincipal (r	Bea Desigr	ring nations	Basic Rating	Limiting Speed					
Dc1 d	D1	Dc D	d1	Dw	B1	В	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