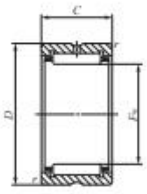
SORUPACHAI

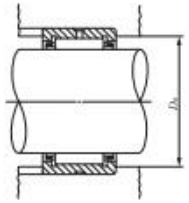
MACHINED TYPE NEEDLE ROLLER BEARINGS

Without Inner Ring





RNA49 TAF
RNA69 ($F_w \leq 35$)



Shaft dia. 5 — 15mm

Shaft dia. mm	Identification number RNA 49	RNA 69	RNA 48	TAF	TR	GTR	Mass (Ref.) g	Boundary dimensions mm F_w	D	C	$r_{s\,min}$ (1)	Standard mounting dimension D_a Max. mm	Basic dynamic load rating C N	Basic static load rating C_0 N	Allowable rotational speed(2) min⁻¹
5	—	—	—	TAF 51010	—	—	3.4	5	10	10	0.2	8.4	2 420	1 950	80 000
	—	—	—	TAF 51012	—	—	4.2	5	10	12	0.2	8.4	3 080	2 660	80 000
	RNA 493	—	—	—	—	—	4.6	5	11	10	0.15	9.8	2 420	1 950	80 000
6	RNA 494	—	—	—	—	—	5.3	6	12	10	0.15	10.8	2 700	2 320	70 000
	—	—	—	TAF 61212	—	—	6.4	6	12	12	0.2	10.4	3 440	3 170	70 000
7	RNA 495	—	—	—	—	—	5.9	7	13	10	0.15	11.8	2 960	2 690	60 000
	—	—	—	TAF 71410	—	—	6.9	7	14	10	0.2	12.4	3 600	2 960	60 000
	—	—	—	TAF 71412	—	—	8.3	7	14	12	0.2	12.4	4 610	4 050	60 000
8	RNA 496	—	—	—	—	—	7.4	8	15	10	0.15	13.8	3 960	3 420	50 000
	—	—	—	TAF 81512	—	—	9.1	8	15	12	0.2	13.4	5 060	4 690	50 000
	—	—	—	TAF 81516	—	—	12.9	8	15	16	0.2	13.4	7 080	7 220	50 000
9	—	—	—	TAF 91612	—	—	9.8	9	16	12	0.2	14.4	5 490	5 330	45 000
	—	—	—	TAF 91616	—	—	13.2	9	16	16	0.2	14.4	7 680	8 210	45 000
	RNA 497	—	—	—	—	—	9.3	9	17	10	0.15	15.8	4 530	3 650	45 000
10	—	—	—	TAF 101712	—	—	10.7	10	17	12	0.2	15.4	5 880	5 970	40 000
	—	—	—	TAF 101716	—	—	14.3	10	17	16	0.2	15.4	8 230	9 190	40 000
	RNA 498	—	—	—	—	—	12.6	10	19	11	0.2	17.4	6 180	5 030	40 000
12	—	—	—	TAF 121912	—	—	12.2	12	19	12	0.3	17	6 610	7 260	35 000
	—	—	—	TAF 121916	—	—	16.3	12	19	16	0.3	17	9 250	11 200	35 000
	RNA 499	—	—	—	—	—	13.6	12	20	11	0.3	18	6 600	6 310	35 000
14	RNA 4900	—	—	—	—	—	16.5	14	22	13	0.3	20	9 230	10 100	30 000
	—	—	—	TAF 142216	—	—	21	14	22	16	0.3	20	11 700	13 700	30 000
	—	—	—	TAF 142220	—	—	26.5	14	22	20	0.3	20	14 800	18 600	30 000
15	—	—	—	TAF 152316	—	—	22.5	15	23	16	0.3	21	12 300	14 900	30 000
	—	—	—	TAF 152320	—	—	28	15	23	20	0.3	21	15 600	20 200	30 000

Notes(1) Minimum allowable value of chamfer dimension r
(2) Allowable rotational speed applies to oil lubrication. For grease lubrication, a maximum of 60% of this value is allowable.
Remarks1. TAF series with a roller set bore diameter F_w of 26 mm or less have no oil hole. In others, the outer ring has an oil groove and an oil hole.
2. No grease is prepacked. Perform proper lubrication.

1N=0.102kgf=0.2248lbs.
1mm=0.03937inch

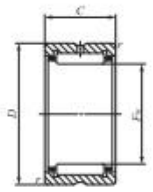
SORUPACHAI

MACHINED TYPE NEEDLE ROLLER BEARINGS

Without Inner Ring



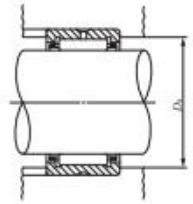




RNA49 TAF TR
RNA69 ($F_w \leq 35$)



GTR



Shaft dia. 16 — 22mm

Shaft dia. mm	Identification number RNA 49	RNA 69	RNA 48	TAF	TR	GTR	Mass (Ref.) g	Boundary dimensions mm F_w	D	C	$r_{s\,min}$ (1)	Standard mounting dimension D_a Max. mm	Basic dynamic load rating C N	Basic static load rating C_0 N	Allowable rotational speed (2) min⁻¹
16	RNA 4901	—	—	—	—	—	18.1	16	24	13	0.3	22	9 660	11 100	25 000
	—	—	—	TAF 162416	—	—	23	16	24	16	0.3	22	12 300	15 100	25 000
	—	—	—	TAF 162420	—	—	29	16	24	20	0.3	22	15 500	20 400	25 000
	—	RNA 6901	—	—	—	—	30	16	24	22	0.3	22	17 100	23 000	25 000
17	—	—	—	TAF 172516	—	—	24.5	17	25	16	0.3	23	12 900	16 300	25 000
	—	—	—	TAF 172520	—	—	30.5	17	25	20	0.3	23	16 300	22 000	25 000
18	RNA 49/14	—	—	—	—	—	19.9	18	26	13	0.3	24	10 600	12 800	20 000
	—	—	—	TAF 182616	—	—	25.5	18	26	16	0.3	24	13 400	17 500	20 000
	—	—	—	TAF 182620	—	—	32	18	26	20	0.3	24	17 000	23 600	20 000
19	—	—	—	TAF 192716	—	—	27	19	27	16	0.3	25	14 000	18 700	20 000
	—	—	—	TAF 192720	—	—	34	19	27	20	0.3	25	17 700	25 300	20 000
20	RNA 4902	—	—	—	—	—	21.5	20	28	13	0.3	26	10 900	13 800	20 000
	—	—	—	TAF 202816	—	—	27.5	20	28	16	0.3	26	13 900	18 800	20 000
	—	—	—	TAF 202820	—	—	35.5	20	28	20	0.3	26	17 600	25 400	20 000
	—	RNA 6902	—	—	—	—	37	20	28	23	0.3	26	19 300	28 800	20 000
	—	—	—	—	TR 203320	—	59.5	20	33	20	0.3	31	24 300	26 500	20 000
	—	—	—	—	—	GTR 203320	69	20	33	20	0.3	31	29 200	37 200	7 500
21	—	—	—	TAF 212916	—	—	29	21	29	16	0.3	27	14 400	20 000	19 000
	—	—	—	TAF 212920	—	—	36	21	29	20	0.3	27	18 200	27 100	19 000
22	RNA 4903	—	—	—	—	—	23.5	22	30	13	0.3	28	11 700	15 600	18 000
	—	—	—	TAF 223016	—	—	30	22	30	16	0.3	28	14 900	21 200	18 000
	—	—	—	TAF 223020	—	—	37.5	22	30	20	0.3	28	18 900	28 700	18 000
	—	RNA 6903	—	—	—	—	40.5	22	30	23	0.3	28	20 800	32 500	18 000
	—	—	—	—	TR 223425	—	73.5	22	34	25	0.3	32	29 100	36 800	18 000
	—	—	—	—	—	GTR 223425	87	22	34	25	0.3	32	37 900	57 800	7 000

Notes(1) Minimum allowable value of chamfer dimension r

(2) Allowable rotational speed applies to oil lubrication. For grease lubrication, a maximum of 60% of this value is allowable.

Remarks1. TAF series with a roller set bore diameter F_w of 26 mm or less have no oil hole. In others, the outer ring has an oil groove and an oil hole.

2. No grease is prepacked. Perform proper lubrication.

1N=0.102kgf=0.2248lbs.
1mm=0.03937inch

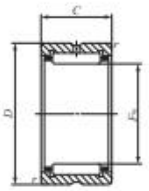
SORUPACHAI

MACHINED TYPE NEEDLE ROLLER BEARINGS

Without Inner Ring



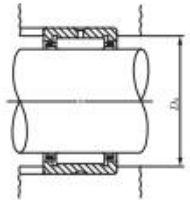




RNA49 TAF TR
RNA69 ($F_w \leq 35$)



GTR



Shaft dia. 24 — 30mm

Shaft dia. mm	Identification number RNA 49	RNA 69	RNA 48	TAF	TR	GTR	Mass (Ref.) g	Boundary dimensions mm F_w	D	C	$r_{s\,min}$ (1)	Standard mounting dimension D_a Max. mm	Basic dynamic load rating C N	Basic static load rating C_0 N	Allowable rotational speed(2) min⁻¹
24	—	—	—	TAF 243216	—	—	32	24	32	16	0.3	30	15 300	22 500	17 000
	—	—	—	TAF 243220	—	—	40.5	24	32	20	0.3	30	19 400	30 500	17 000
25	—	—	—	TAF 253316	—	—	33.5	25	33	16	0.3	31	15 800	23 700	16 000
	—	—	—	TAF 253320	—	—	42	25	33	20	0.3	31	20 000	32 100	16 000
	RNA 4904	—	—	—	—	—	55.5	25	37	17	0.3	35	21 000	25 000	16 000
	—	RNA 6904	—	—	—	—	95.5	25	37	30	0.3	35	35 400	48 900	16 000
	—	—	—	—	TR 253820	—	71	25	38	20	0.3	36	28 900	35 000	16 000
	—	—	—	—	TR 253825	—	89	25	38	25	0.3	36	34 800	44 400	16 000
	—	—	—	—	—	GTR 253820	81.5	25	38	20	0.3	36	33 300	46 500	6 000
	—	—	—	—	—	GTR 253825	104	25	38	25	0.3	36	42 400	63 700	6 000
26	—	—	—	TAF 263416	—	—	34.5	26	34	16	0.3	32	16 300	24 900	15 000
	—	—	—	TAF 263420	—	—	43.5	26	34	20	0.3	32	20 600	33 800	15 000
28	—	—	—	TAF 283720	—	—	51.5	28	37	20	0.3	35	21 700	37 100	14 000
	—	—	—	TAF 283730	—	—	83.5	28	37	30	0.3	35	31 100	58 900	14 000
	RNA 49/22	—	—	—	—	—	56.5	28	39	17	0.3	37	21 400	28 900	14 000
	—	RNA 69/22	—	—	—	—	97.5	28	39	30	0.3	37	36 300	56 900	14 000
29	—	—	—	TAF 293820	—	—	57	29	38	20	0.3	36	21 600	37 200	14 000
	—	—	—	TAF 293830	—	—	85	29	38	30	0.3	36	30 900	59 100	14 000
30	—	—	—	TAF 304020	—	—	64.5	30	40	20	0.3	38	25 100	40 100	13 000
	—	—	—	TAF 304030	—	—	97.5	30	40	30	0.3	38	36 000	63 900	13 000
	RNA 4905	—	—	—	—	—	64	30	42	17	0.3	40	23 700	30 700	13 000
	—	RNA 6905	—	—	—	—	111	30	42	30	0.3	40	42 100	64 300	13 000
	—	—	—	—	TR 304425	—	115	30	44	25	0.3	42	37 900	52 100	13 000
	—	—	—	—	—	GTR 304425	133	30	44	25	0.3	42	47 000	76 500	5 000

Notes(1) Minimum allowable value of chamfer dimension r
(2) Allowable rotational speed applies to oil lubrication. For grease lubrication, a maximum of 60% of this value is allowable.
Remarks1. TAF series with a roller set bore diameter F_w of 26 mm or less have no oil hole. In others, the outer ring has an oil groove and an oil hole.
2. No grease is prepacked. Perform proper lubrication.

1N=0.102kgf=0.2248lbs.
1mm=0.03937inch

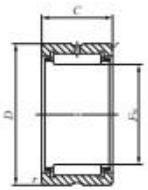
SORUPACHAI

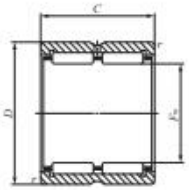
MACHINED TYPE NEEDLE ROLLER BEARINGS

Without Inner Ring

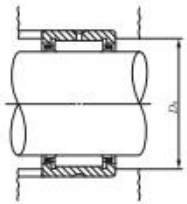





RNA49 TAF TR
RNA69 ($F_w \leqq 35$)


RNA69


GTR



Shaft dia. 32 — 40mm

Shaft dia. mm	Identification number: RNA 49	RNA 69	RNA 48	TAF	TR	GTR	Mass (Ref.) g	Boundary dimensions mm: F_w	D	C	$r_{s\,min}$ (1)	Standard mounting dimension D_a Max. mm	Basic dynamic load rating C N	Basic static load rating C_0 N	Allowable rotational speed (2) min⁻¹
32	—	—	—	TAF 324220	—	—	68	32	42	20	0.3	40	25 700	42 200	12 000
	—	—	—	TAF 324230	—	—	102	32	42	30	0.3	40	36 800	67 200	12 000
	RNA 49/28	—	—	—	—	—	76.5	32	45	17	0.3	43	24 500	32 700	12 000
	—	RNA 69/28	—	—	—	—	133	32	45	30	0.3	43	41 800	64 800	12 000
	—	—	—	—	—	GTR 324530	152	32	45	30	0.3	43	58 000	101 000	4 500
35	—	—	—	TAF 354520	—	—	73.5	35	45	20	0.3	43	26 900	46 200	11 000
	—	—	—	TAF 354530	—	—	112	35	45	30	0.3	43	38 600	73 600	11 000
	RNA 4906	—	—	—	—	—	72.5	35	47	17	0.3	45	25 200	34 700	11 000
	—	RNA 6906	—	—	—	—	125	35	47	30	0.3	45	43 000	69 000	11 000
	—	—	—	—	TR 354830	—	139	35	48	30	0.3	46	47 400	72 300	11 000
	—	—	—	—	—	GTR 354830	163	35	48	30	0.3	46	61 100	110 000	4 500
37	—	—	—	TAF 374720	—	—	77.5	37	47	20	0.3	45	28 200	50 100	11 000
	—	—	—	TAF 374730	—	—	117	37	47	30	0.3	45	40 500	79 800	11 000
38	—	—	—	TAF 384820	—	—	79	38	48	20	0.3	46	28 100	50 200	11 000
	—	—	—	TAF 384830	—	—	119	38	48	30	0.3	46	40 300	80 000	11 000
	—	—	—	—	TR 385230	—	168	38	52	30	0.6	48	50 800	81 100	11 000
	—	—	—	—	—	GTR 385230	195	38	52	30	0.6	48	64 200	121 000	4 000
40	—	—	—	TAF 405020	—	—	83	40	50	20	0.3	48	29 400	54 100	10 000
	—	—	—	TAF 405030	—	—	125	40	50	30	0.3	48	42 300	86 200	10 000
	RNA 49/32	—	—	—	—	—	96	40	52	20	0.6	48	31 200	47 800	10 000
	—	RNA 69/32	—	—	—	—	172	40	52	36	0.6	48	53 500	95 700	10 000
	—	—	—	—	TR 405520	—	129	40	55	20	0.6	51	37 400	55 700	10 000
	—	—	—	—	—	GTR 405520	144	40	55	20	0.6	51	44 300	73 600	3 500

Notes(1) Minimum allowable value of chamfer dimension r

(2) Allowable rotational speed applies to oil lubrication. For grease lubrication, a maximum of 60% of this value is allowable.

Remarks 1. The outer ring has an oil groove and an oil hole.

2. No grease is prepacked. Perform proper lubrication.

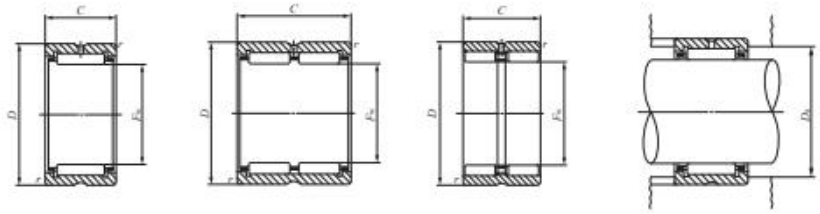
1N=0.102kgf=0.2248lbs.
1mm=0.03937inch

SORUPACHAI

MACHINED TYPE NEEDLE ROLLER BEARINGS

Without Inner Ring





RNA49 TAF TR　　RNA69　　GTR

Shaft dia. 42 — 50mm

Shaft dia. mm	Identification number RNA 49	RNA 69	RNA 48	TAF	TR	GTR	Mass (Ref.) g	Boundary dimensions mm F_w	D	C	$r_{s\,min}$ (1)	Standard mounting dimension D_a Max. mm	Basic dynamic load rating C N	Basic static load rating C_0 N	Allowable rotational speed (2) min⁻¹
42	—	—	—	TAF 425220	—	—	86.5	42	52	20	0.3	50	29 900	56 200	9 500
	—	—	—	TAF 425230	—	—	130	42	52	30	0.3	50	43 000	89 400	9 500
	RNA 4907	—	—	—	—	—	113	42	55	20	0.6	51	32 000	50 100	9 500
	—	RNA 6907	—	—	—	—	200	42	55	36	0.6	51	54 900	100 000	9 500
	—	—	—	—	TR 425630	—	183	42	56	30	0.6	52	53 800	90 100	9 500
	—	—	—	—	—	GTR 425630	210	42	56	30	0.6	52	67 500	133 000	3 500
43	—	—	—	TAF 435320	—	—	88.5	43	53	20	0.3	51	30 500	58 200	9 500
	—	—	—	TAF 435330	—	—	133	43	53	30	0.3	51	43 800	92 600	9 500
45	—	—	—	TAF 455520	—	—	92	45	55	20	0.3	53	31 000	60 200	9 000
	—	—	—	TAF 455530	—	—	138	45	55	30	0.3	53	44 600	95 800	9 000
	RNA 49/38	—	—	—	—	—	120	45	58	20	0.6	54	33 600	54 600	9 000
	—	—	—	—	TR 455930	—	193	45	59	30	0.6	55	55 100	94 800	9 000
	—	—	—	—	—	GTR 455930	225	45	59	30	0.6	55	70 300	142 000	3 500
47	—	—	—	TAF 475720	—	—	95	47	57	20	0.3	55	31 500	62 200	8 500
	—	—	—	TAF 475730	—	—	144	47	57	30	0.3	55	45 200	99 100	8 500
48	RNA 4908	—	—	—	—	—	152	48	62	22	0.6	58	41 600	67 400	8 500
	—	—	—	—	TR 486230	—	205	48	62	30	0.6	58	56 300	99 500	8 500
	—	RNA 6908	—	—	—	—	275	48	62	40	0.6	58	71 300	135 000	8 500
	—	—	—	—	—	GTR 486230	240	48	62	30	0.6	58	72 700	154 000	3 000
50	—	—	—	TAF 506225	—	—	159	50	62	25	0.3	60	43 000	85 300	8 000
	—	—	—	TAF 506235	—	—	225	50	62	35	0.3	60	58 000	125 000	8 000
	—	—	—	—	TR 506430	—	210	50	64	30	0.6	60	57 700	104 000	8 000
	RNA 49/42	—	—	—	—	—	174	50	65	22	0.6	61	42 500	70 300	8 000
	—	—	—	—	—	GTR 506430	245	50	64	30	0.6	60	74 600	158 000	3 000

Notes(1) Minimum allowable value of chamfer dimension r

(2) Allowable rotational speed applies to oil lubrication. For grease lubrication, a maximum of 60% of this value is allowable.

Remarks1. The outer ring has an oil groove and an oil hole.

2. No grease is prepacked. Perform proper lubrication.

1N=0.102kgf=0.2248lbs.
1mm=0.03937inch

SORUPACHAI

IKO

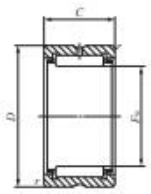
MACHINED TYPE NEEDLE ROLLER BEARINGS

Without Inner Ring

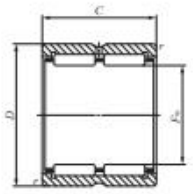








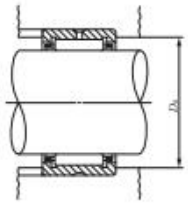
RNA49 TAF TR



RNA69



GTR



Shaft dia. 52 — 68mm

Shaft dia. mm	Identification number RNA 49	RNA 69	RNA 48	TAF	TR	GTR	Mass (Ref.) g	Boundary dimensions mm F_w	D	C	$r_{s\,min}$ (1)	Standard mounting dimension D_a Max. mm	Basic dynamic load rating C N	Basic static load rating C_0 N	Allowable rotational speed (2) min⁻¹
52	RNA 4909	—	—	—	—	—	197	52	68	22	0.6	64	43 500	73 300	7 500
	—	RNA 6909	—	—	—	—	355	52	68	40	0.6	64	74 600	147 000	7 500
55	—	—	—	TAF 556825	—	—	193	55	68	25	0.3	66	45 400	94 000	7 500
	—	—	—	TAF 556835	—	—	255	55	68	35	0.3	66	61 200	138 000	7 500
	RNA 49/48	—	—	—	—	—	188	55	70	22	0.6	66	44 300	76 300	7 500
58	RNA 4910	—	—	—	—	—	179	58	72	22	0.6	68	46 200	82 100	7 000
	—	RNA 6910	—	—	—	—	320	58	72	40	0.6	68	79 200	164 000	7 000
	—	—	—	—	TR 587745	—	515	58	77	45	1	72	104 000	191 000	7 000
	—	—	—	—	—	GTR 587745	590	58	77	45	1	72	135 000	280 000	2 500
60	—	—	—	TAF 607225	—	—	187	60	72	25	0.3	70	47 500	103 000	6 500
	—	—	—	TAF 607235	—	—	260	60	72	35	0.3	70	64 100	151 000	6 500
	RNA 49/52	—	—	—	—	—	205	60	75	22	0.6	71	47 100	85 100	6 500
62	—	—	—	—	TR 628138	—	460	62	81	38	1	76	92 000	166 000	6 500
	—	—	—	—	—	GTR 628138	520	62	81	38	1	76	118 000	241 000	2 500
63	RNA 4911	—	—	—	—	—	265	63	80	25	1	75	57 600	97 200	6 500
	—	RNA 6911	—	—	—	—	475	63	80	45	1	75	98 700	194 000	6 500
65	—	—	—	TAF 657825	—	—	225	65	78	25	0.6	74	49 600	112 000	6 000
	—	—	—	TAF 657835	—	—	315	65	78	35	0.6	74	67 000	164 000	6 000
	RNA 49/58	—	—	—	—	—	275	65	82	25	1	77	58 900	101 000	6 000
68	—	—	—	TAF 688225	—	—	250	68	82	25	0.6	78	54 800	117 000	6 000
	—	—	—	TAF 688235	—	—	350	68	82	35	0.6	78	72 000	166 000	6 000
	RNA 4912	—	—	—	—	—	285	68	85	25	1	80	60 200	105 000	6 000
	—	RNA 6912	—	—	—	—	510	68	85	45	1	80	103 000	211 000	6 000

Notes(1) Minimum allowable value of chamfer dimension r

(2) Allowable rotational speed applies to oil lubrication. For grease lubrication, a maximum of 60% of this value is allowable.

Remarks1. The outer ring has an oil groove and an oil hole.

2. No grease is prepacked. Perform proper lubrication.

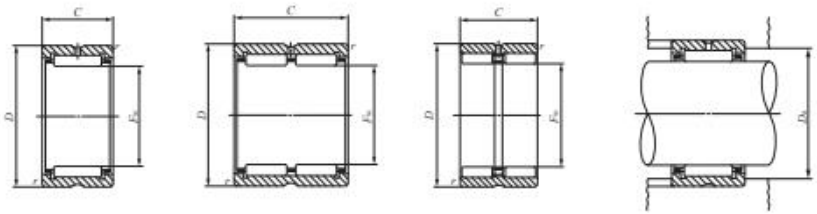
1N=0.102kgf=0.2248lbs.
1mm=0.03937inch

SORUPACHAI

MACHINED TYPE NEEDLE ROLLER BEARINGS

Without Inner Ring





RNA49 TAF TR RNA69 GTR

Shaft dia. 70 — 85mm

Shaft dia. mm	Identification number RNA 49	RNA 69	RNA 48	TAF	TR	GTR	Mass (Ref.) g	Boundary dimensions mm F_w	D	C	$r_{s\,min}$ (1)	Standard mounting dimension D_a Max. mm	Basic dynamic load rating C N	Basic static load rating C_0 N	Allowable rotational speed(2) min⁻¹
70	—	—	—	TAF 708525	—	—	280	70	85	25	0.6	81	55 500	120 000	5 500
	—	—	—	TAF 708535	—	—	395	70	85	35	0.6	81	73 000	171 000	5 500
	RNA 49/62	—	—	—	—	—	320	70	88	25	1	83	61 500	109 000	5 500
	—	—	—	—	TR 708945	—	605	70	89	45	1	84	114 000	228 000	5 500
	—	—	—	—	—	GTR 708945	690	70	89	45	1	84	147 000	336 000	2 000
72	RNA 4913	—	—	—	—	—	325	72	90	25	1	85	62 700	113 000	5 500
	—	RNA 6913	—	—	—	—	585	72	90	45	1	85	108 000	227 000	5 500
73	—	—	—	TAF 739025	—	—	335	73	90	25	1	85	61 100	127 000	5 500
	—	—	—	TAF 739035	—	—	475	73	90	35	1	85	80 400	181 000	5 500
75	—	—	—	TAF 759225	—	—	345	75	92	25	1	87	62 100	131 000	5 500
	—	—	—	TAF 759235	—	—	485	75	92	35	1	87	81 700	186 000	5 500
	RNA 49/68	—	—	—	—	—	470	75	95	30	1	90	79 900	147 000	5 500
80	—	—	—	TAF 809525	—	—	315	80	95	25	1	90	59 400	137 000	5 000
	—	—	—	TAF 809535	—	—	445	80	95	35	1	90	78 100	195 000	5 000
	RNA 4914	—	—	—	—	—	495	80	100	30	1	95	83 200	158 000	5 000
	—	RNA 6914	—	—	—	—	910	80	100	54	1	95	134 000	311 000	5 000
83	—	—	—	—	TR 8310845	—	995	83	108	45	1	103	146 000	270 000	5 000
	—	—	—	—	—	GTR 8310845	1 090	83	108	45	1	103	190 000	396 000	1 800
85	—	—	—	TAF 8510525	—	—	435	85	105	25	1	100	76 300	145 000	4 500
	RNA 4915	—	—	—	—	—	525	85	105	30	1	100	86 200	169 000	4 500
	—	—	—	TAF 8510535	—	—	610	85	105	35	1	100	102 000	210 000	4 500
	—	RNA 6915	—	—	—	—	960	85	105	54	1	100	138 000	331 000	4 500

Notes(1) Minimum allowable value of chamfer dimension r

(2) Allowable rotational speed applies to oil lubrication. For grease lubrication, a maximum of 60% of this value is allowable.

Remarks1. The outer ring has an oil groove and an oil hole.

2. No grease is prepacked. Perform proper lubrication.

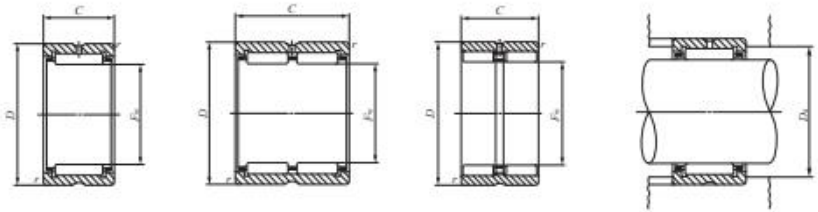
1N=0.102kgf=0.2248lbs.
1mm=0.03937inch

SORUPACHAI

MACHINED TYPE NEEDLE ROLLER BEARINGS

Without Inner Ring





RNA49 TAF TR RNA69 GTR

Shaft dia. 90 — 105mm

Shaft dia. mm	Identification number RNA 49	RNA 69	RNA 48	TAF	TR	GTR	Mass (Ref.) g	Boundary dimensions mm F_w	D	C	$r_{s\,min}$ (1)	Standard mounting dimension D_a Max. mm	Basic dynamic load rating C N	Basic static load rating C_0 N	Allowable rotational speed(2) min⁻¹
90	—	—	—	TAF 9011025	—	—	455	90	110	25	1	105	77 300	150 000	4 500
	RNA 4916	—	—	—	—	—	550	90	110	30	1	105	87 300	175 000	4 500
	—	—	—	TAF 9011035	—	—	640	90	110	35	1	105	103 000	217 000	4 500
	—	RNA 6916	—	—	—	—	1 010	90	110	54	1	105	143 000	351 000	4 500
93	—	—	—	—	TR 9311850	—	1 210	93	118	50	1	113	165 000	329 000	4 500
	—	—	—	—	—	GTR 9311850	1 340	93	118	50	1	113	224 000	509 000	1 600
95	—	—	—	TAF 9511526	—	—	495	95	115	26	1	110	79 700	159 000	4 000
	RNA 49/82	—	—	—	—	—	575	95	115	30	1	110	90 000	186 000	4 000
	—	—	—	TAF 9511536	—	—	690	95	115	36	1	110	106 000	231 000	4 000
	—	—	—	—	TR 9512045	—	1 120	95	120	45	1.5	112	155 000	305 000	4 000
	—	—	—	—	—	GTR 9512045	1 230	95	120	45	1.5	112	204 000	455 000	1 600
100	—	—	—	TAF 10012026	—	—	525	100	120	26	1	115	82 400	168 000	4 000
	RNA 4917	—	—	—	—	—	705	100	120	35	1.1	113.5	110 000	244 000	4 000
	—	—	—	TAF 10012036	—	—	725	100	120	36	1	115	110 000	244 000	4 000
	—	RNA 6917	—	—	—	—	1 300	100	120	63	1.1	113.5	173 000	467 000	4 000
	—	—	—	—	TR 10012550	—	1 290	100	125	50	1.5	117	172 000	355 000	4 000
	—	—	—	—	—	GTR 10012550	1 440	100	125	50	1.5	117	234 000	549 000	1 500
105	—	—	—	TAF 10512526	—	—	545	105	125	26	1	120	84 700	178 000	4 000
	RNA 4918	—	—	—	—	—	740	105	125	35	1.1	118.5	113 000	258 000	4 000
	—	—	—	TAF 10512536	—	—	760	105	125	36	1	120	113 000	258 000	4 000
	—	RNA 6918	—	—	—	—	1 360	105	125	63	1.1	118.5	178 000	490 000	4 000

Notes(1) Minimum allowable value of chamfer dimension r

(2) Allowable rotational speed applies to oil lubrication. For grease lubrication, a maximum of 60% of this value is allowable.

Remarks1. The outer ring has an oil groove and an oil hole.

2. No grease is prepacked. Perform proper lubrication.

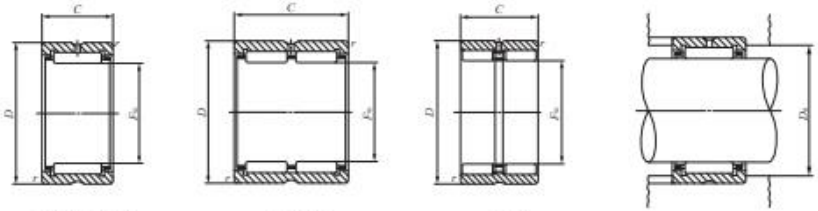
1N=0.102kgf=0.2248lbs.
1mm=0.03937inch

SORUPACHAI

MACHINED TYPE NEEDLE ROLLER BEARINGS

Without Inner Ring





RNA49 RNA48 TAF TR | RNA69 | GTR

Shaft dia. 110 — 170mm

Shaft dia. mm	Identification number RNA 49	RNA 69	RNA 48	TAF	TR	GTR	Mass (Ref.) g	Boundary dimensions mm F_w	D	C	$r_{s\,min}$ (1)	Standard mounting dimension D_a Max. mm	Basic dynamic load rating C N	Basic static load rating C_0 N	Allowable rotational speed (2) min⁻¹
110	—	—	—	TAF 11013030	—	—	660	110	130	30	1	125	106 000	240 000	3 500
	RNA 4919	—	—	—	—	—	770	110	130	35	1.1	123.5	116 000	271 000	3 500
	—	—	—	TAF 11013040	—	—	880	110	130	40	1	125	134 000	324 000	3 500
	—	RNA 6919	—	—	—	—	1 420	110	130	63	1.1	123.5	182 000	514 000	3 500
	—	—	—	—	TR 11013550	—	1 400	110	135	50	1.5	127	183 000	395 000	3 500
	—	—	—	—	—	GTR 11013550	1 560	110	135	50	1.5	127	245 000	603 000	1 400
115	RNA 4920	—	—	—	—	—	1 190	115	140	40	1.1	133.5	145 000	329 000	3 500
	—	—	—	—	TR 11515350	—	2 350	115	153	50	1.5	145	233 000	414 000	3 500
	—	—	—	—	—	GTR 11515350	2 600	115	153	50	1.5	145	315 000	614 000	1 300
120	—	—	RNA 4822	—	—	—	790	120	140	30	1	135	93 200	239 000	3 500
125	RNA 4922	—	—	—	—	—	1 280	125	150	40	1.1	143.5	152 000	357 000	3 000
130	—	—	RNA 4824	—	—	—	850	130	150	30	1	145	96 900	259 000	3 000
135	RNA 4924	—	—	—	—	—	1 930	135	165	45	1.1	158.5	187 000	435 000	3 000
140	—	—	—	—	TR 14017860	—	3 320	140	178	60	1.5	170	307 000	625 000	3 000
	—	—	—	—	—	GTR 14017860	3 730	140	178	60	1.5	170	409 000	923 000	1 100
145	—	—	RNA 4826	—	—	—	1 100	145	165	35	1.1	158.5	116 000	340 000	3 000
150	RNA 4926	—	—	—	—	—	2 360	150	180	50	1.5	172	215 000	540 000	2 500
	—	—	—	—	TR 15018860	—	3 540	150	188	60	1.5	180	320 000	675 000	2 500
	—	—	—	—	—	GTR 15018860	3 970	150	188	60	1.5	180	423 000	989 000	1 000
155	—	—	RNA 4828	—	—	—	1 170	155	175	35	1.1	168.5	120 000	363 000	2 500
160	RNA 4928	—	—	—	—	—	2 500	160	190	50	1.5	182	224 000	580 000	2 500
165	—	—	RNA 4830	—	—	—	1 750	165	190	40	1.1	183.5	168 000	446 000	2 500
170	RNA 4930	—	—	—	—	—	4 090	170	210	60	2	201	324 000	712 000	2 500

Notes(1) Minimum allowable value of chamfer dimension r

(2) Allowable rotational speed applies to oil lubrication. For grease lubrication, a maximum of 60% of this value is allowable.

Remarks1. The outer ring has an oil groove and an oil hole.

2. No grease is prepacked. Perform proper lubrication.

1N=0.102kgf=0.2248lbs.
1mm=0.03937inch