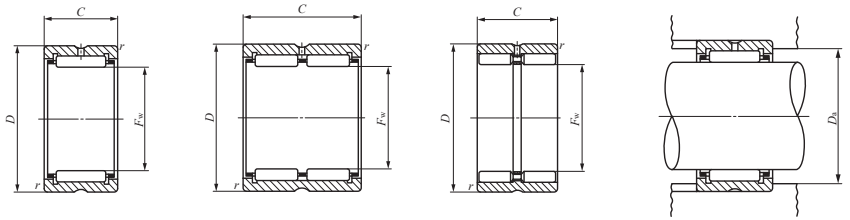
MACHINED TYPE NEEDLE ROLLER BEARINGS

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
70	—	—	—	**TAF 708525**	—	—	280
	—	—	—	**TAF 708535**	—	—	395
	RNA 49/62	—	—	—	—	—	320
	—	—	—	—	**TR 708945**	—	605
	—	—	—	—	—	**GTR 708945**	690
72	**RNA 4913**	—	—	—	—	—	325
	—	**RNA 6913**	—	—	—	—	585
73	—	—	—	**TAF 739025**	—	—	335
	—	—	—	**TAF 739035**	—	—	475
75	—	—	—	**TAF 759225**	—	—	345
	—	—	—	**TAF 759235**	—	—	485
	RNA 49/68	—	—	—	—	—	470
80	—	—	—	**TAF 809525**	—	—	315
	—	—	—	**TAF 809535**	—	—	445
	RNA 4914	—	—	—	—	—	495
	—	**RNA 6914**	—	—	—	—	910
83	—	—	—	—	**TR 8310845**	—	995
	—	—	—	—	—	**GTR 8310845**	1 090
85	—	—	—	**TAF 8510525**	—	—	435
	RNA 4915	—	—	—	—	—	525
	—	—	—	**TAF 8510535**	—	—	610
	—	**RNA 6915**	—	—	—	—	960

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	85	25	0.6	81	55 500	120 000	5 500
70	85	35	0.6	81	73 000	171 000	5 500
70	88	25	1	83	61 500	109 000	5 500
70	89	45	1	84	114 000	228 000	5 500
70	89	45	1	84	147 000	336 000	2 000
72	90	25	1	85	62 700	113 000	5 500
72	90	45	1	85	108 000	227 000	5 500
73	90	25	1	85	61 100	127 000	5 500
73	90	35	1	85	80 400	181 000	5 500
75	92	25	1	87	62 100	131 000	5 500
75	92	35	1	87	81 700	186 000	5 500
75	95	30	1	90	79 900	147 000	5 500
80	95	25	1	90	59 400	137 000	5 000
80	95	35	1	90	78 100	195 000	5 000
80	100	30	1	95	83 200	158 000	5 000
80	100	54	1	95	134 000	311 000	5 000
83	108	45	1	103	146 000	270 000	5 000
83	108	45	1	103	190 000	396 000	1 800
85	105	25	1	100	76 300	145 000	4 500
85	105	30	1	100	86 200	169 000	4 500
85	105	35	1	100	102 000	210 000	4 500
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