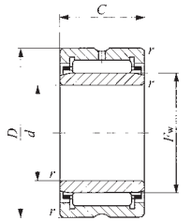
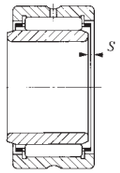
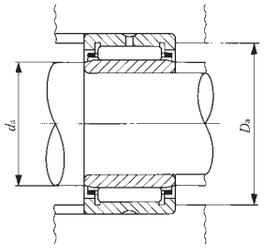
MACHINED TYPE NEEDLE ROLLER BEARINGS

With Inner Ring









NA49 TAFI
NA69 ($d \leqq 30$)

Shaft dia. 5 — 12mm

Shaft dia. mm	Identification number NA 49	NA 69	NA 48	TAFI	TRI	GTRI	Mass (Ref.) g	d
5	**NA 495**	—	—	—	—	—	7.3	5
	—	—	—	**TAFI 51512**	—	—	11.9	5
	—	—	—	**TAFI 51516**	—	—	16.7	5
6	**NA 496**	—	—	—	—	—	9.1	6
	—	—	—	**TAFI 61612**	—	—	13	6
	—	—	—	**TAFI 61616**	—	—	17.5	6
7	**NA 497**	—	—	—	—	—	11.2	7
	—	—	—	**TAFI 71712**	—	—	14.3	7
	—	—	—	**TAFI 71716**	—	—	19.2	7
8	**NA 498**	—	—	—	—	—	15	8
9	—	—	—	**TAFI 91912**	—	—	16.7	9
	—	—	—	**TAFI 91916**	—	—	22.5	9
	NA 499	—	—	—	—	—	16.7	9
10	**NA 4900**	—	—	—	—	—	24	10
	—	—	—	**TAFI 102216**	—	—	30	10
	—	—	—	**TAFI 102220**	—	—	38	10
12	**NA 4901**	—	—	—	—	—	26.5	12
	—	—	—	**TAFI 122416**	—	—	33.5	12
	—	—	—	**TAFI 122420**	—	—	42.5	12
	—	**NA 6901**	—	—	—	—	44.5	12

Boundary dimensions mm D	C	B	$r_{s\,min}$ (1)	F_w	S (2)	Standard mounting dimensions mm d_a Min.	d_a Max.	D_a Max.	Basic dynamic load rating C N	Basic static load rating C_0 N	Allowable rotational speed(3) rpm	Assembled inner ring
13	10	—	0.15	7	0.5	6.2	6.7	11.8	2 960	2 690	60 000	**LRT 5710**
15	12	—	0.2	8	0.5	6.6	7.7	13.4	5 060	4 690	50 000	**LRT 5812**
15	16	—	0.2	8	0.5	6.6	7.7	13.4	7 080	7 220	50 000	**LRT 5816**
15	10	—	0.15	8	0.5	7.2	7.7	13.8	3 960	3 420	50 000	**LRT 6810**
16	12	—	0.2	9	0.5	7.6	8.7	14.4	5 490	5 330	45 000	**LRT 6912**
16	16	—	0.2	9	0.5	7.6	8.7	14.4	7 680	8 210	45 000	**LRT 6916**
17	10	—	0.15	9	0.5	8.2	8.7	15.8	4 530	3 650	45 000	**LRT 7910**
17	12	—	0.2	10	0.5	8.6	9.7	15.4	5 880	5 970	40 000	**LRT 71012**
17	16	—	0.2	10	0.5	8.6	9.7	15.4	8 230	9 190	40 000	**LRT 71016**
19	11	—	0.2	10	0.5	9.6	9.9	17.4	6 180	5 030	40 000	**LRT 81011**
19	12	—	0.3	12	0.5	11	11.5	17	6 610	7 260	35 000	**LRT 91212**
19	16	—	0.3	12	0.5	11	11.5	17	9 250	11 200	35 000	**LRT 91216**
20	11	—	0.3	12	0.5	11	11.5	18	6 600	6 310	35 000	**LRT 91211**
22	13	—	0.3	14	0.5	12	13	20	9 230	10 100	30 000	**LRT 101413**
22	16	—	0.3	14	0.5	12	13	20	11 700	13 700	30 000	**LRT 101416**
22	20	—	0.3	14	0.5	12	13	20	14 800	18 600	30 000	**LRT 101420**
24	13	—	0.3	16	0.5	14	15	22	9 660	11 100	25 000	**LRT 121613**
24	16	—	0.3	16	0.5	14	15	22	12 300	15 100	25 000	**LRT 121616**
24	20	—	0.3	16	0.5	14	15	22	15 500	20 400	25 000	**LRT 121620**
24	22	—	0.3	16	0.5	14	15	22	17 100	23 000	25 000	**LRT 121622**

Notes(1) Minimum allowable value of chamfer dimension r
(2) Allowable axial shift amount of inner ring to outer ring
(3) Allowable rotational speed applies to oil lubrication. For grease lubrication, a maximum of 60% of this value is allowable.
Remarks1. TAFI series with a bore diameter d of 22 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.

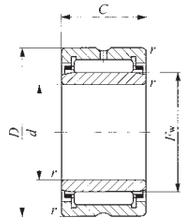
1N=0.102kgf=0.2248lbs.
1mm=0.03937inch

MACHINED TYPE NEEDLE ROLLER BEARINGS

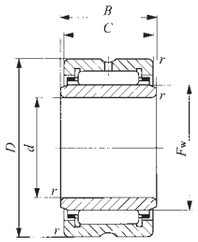
With Inner Ring



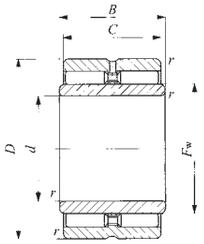




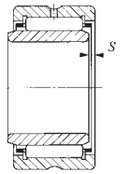
NA49 TAFI
NA69 ($d \leqq 30$)

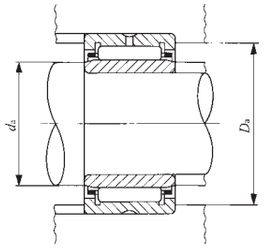


TRI



GTRI





Shaft dia. 15 — 22mm

Shaft dia. mm	Identification number NA 49	NA 69	NA 48	TAFI	TRI	GTRI	Mass (Ref.) g	d
15	—	—	—	**TAFI 152716**	—	—	39.5	15
	—	—	—	**TAFI 152720**	—	—	50	15
	NA 4902	—	—	—	—	—	35	15
	—	**NA 6902**	—	—	—	—	61	15
	—	—	—	—	**TRI 153320**	—	81	15
	—	—	—	—	—	**GTRI 153320**	90.5	15
17	—	—	—	**TAFI 172916**	—	—	43.5	17
	—	—	—	**TAFI 172920**	—	—	54	17
	NA 4903	—	—	—	—	—	39	17
	—	**NA 6903**	—	—	—	—	67	17
	—	—	—	—	**TRI 173425**	—	104	17
	—	—	—	—	—	**GTRI 173425**	117	17
20	—	—	—	**TAFI 203216**	—	—	48.5	20
	—	—	—	**TAFI 203220**	—	—	61	20
	NA 4904	—	—	—	—	—	78.5	20
	—	**NA 6904**	—	—	—	—	136	20
	—	—	—	—	**TRI 203820**	—	99	20
	—	—	—	—	**TRI 203825**	—	124	20
	—	—	—	—	—	**GTRI 203820**	110	20
	—	—	—	—	—	**GTRI 203825**	138	20
22	—	—	—	**TAFI 223416**	—	—	52	22
	—	—	—	**TAFI 223420**	—	—	67.5	22
	NA 49/22	—	—	—	—	—	87	22
	—	**NA 69/22**	—	—	—	—	152	22

Boundary dimensions mm D	C	B	$r_{s\,min}$ (1)	F_w	S (2)	Standard mounting dimensions mm d_a Min.	d_a Max.	D_a Max.	Basic dynamic load rating C N	Basic static load rating C_0 N	Allowable rotational speed (3) rpm	Assembled inner ring
27	16	—	0.3	19	0.5	17	18	25	14 000	18 700	20 000	**LRT 151916**
27	20	—	0.3	19	0.5	17	18	25	17 700	25 300	20 000	**LRT 151920**
28	13	—	0.3	20	0.3	17	19	26	10 900	13 800	20 000	**LRT 152013**
28	23	—	0.3	20	0.3	17	19	26	19 300	28 800	20 000	**LRT 152023**
33	20	20.5	0.3	20	0.3	17	19	31	24 300	26 500	20 000	**LRT 152020**
33	20	20.5	0.3	20	—	17	19	31	29 200	37 200	7 500	**LRTZ 152020**
29	16	—	0.3	21	0.5	19	20	27	14 400	20 000	19 000	**LRT 172116**
29	20	—	0.3	21	0.5	19	20	27	18 200	27 100	19 000	**LRT 172120**
30	13	—	0.3	22	0.3	19	21	28	11 700	15 600	18 000	**LRT 172213**
30	23	—	0.3	22	0.3	19	21	28	20 800	32 500	18 000	**LRT 172223**
34	25	25.5	0.3	22	0.5	19	21	32	29 100	36 800	18 000	**LRT 172225**
34	25	25.5	0.3	22	—	19	21	32	37 900	57 800	7 000	**LRTZ 172225**
32	16	—	0.3	24	0.5	22	23	30	15 300	22 500	17 000	**LRT 202416**
32	20	—	0.3	24	0.5	22	23	30	19 400	30 500	17 000	**LRT 202420**
37	17	—	0.3	25	0.5	22	24	35	21 000	25 000	16 000	**LRT 202517**
37	30	—	0.3	25	0.5	22	24	35	35 400	48 900	16 000	**LRT 202530**
38	20	20.5	0.3	25	0.3	22	24	36	28 900	35 000	16 000	**LRT 202520**
38	25	25.5	0.3	25	0.5	22	24	36	34 800	44 400	16 000	**LRT 202525**
38	20	20.5	0.3	25	—	22	24	36	33 300	46 500	6 000	**LRTZ 202520**
38	25	25.5	0.3	25	—	22	24	36	42 400	63 700	6 000	**LRTZ 202525**
34	16	—	0.3	26	0.5	24	25	32	16 300	24 900	15 000	**LRT 222616**
34	20	—	0.3	26	0.5	24	25	32	20 600	33 800	15 000	**LRT 222620**
39	17	—	0.3	28	1	24	27	37	21 400	28 900	14 000	**LRT 222817**
39	30	—	0.3	28	0.5	24	27	37	36 300	56 900	14 000	**LRT 222830**

Notes(1) Minimum allowable value of chamfer dimension r
(2) Allowable axial shift amount of inner ring to outer ring
(3) Allowable rotational speed applies to oil lubrication. For grease lubrication, a maximum of 60% of this value is allowable.
Remarks1. TAFI series with a bore diameter d of 22 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