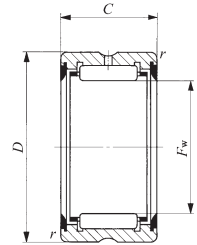
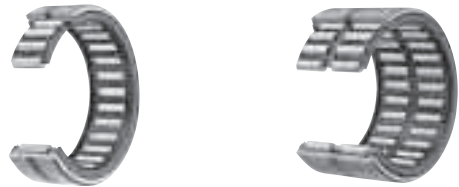


MACHINED TYPE NEEDLE ROLLER BEARINGS

With Seal, Without Inner Ring



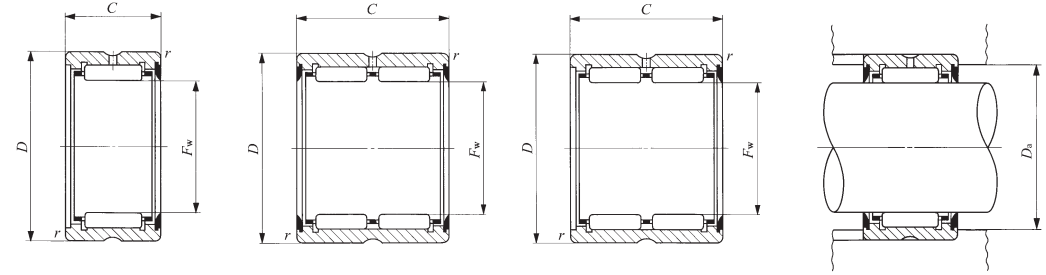
RNA49...UU
RNA69...UU ($F_w \leq 35$)

Shaft dia. 14 – 45mm

Shaft dia. mm	Identification number				Mass (Ref.) g	Boundary dimensions mm			
	With two seals	With one seal	With two seals	With one seal		F_w	D	C	$r_{s \min}^{(1)}$
14	RNA 4900UU	RNA 4900U	—	—	16.3	14	22	13	0.3
16	RNA 4901UU —	RNA 4901U —	—	—	17.9	16	24	13	0.3
			RNA 6901UU	RNA 6901U	30	16	24	22	0.3
18	RNA 49/14UU	RNA 49/14U	—	—	19.7	18	26	13	0.3
20	RNA 4902UU —	RNA 4902U —	—	—	21.5	20	28	13	0.3
			RNA 6902UU	RNA 6902U	37.5	20	28	23	0.3
22	RNA 4903UU —	RNA 4903U —	—	—	23	22	30	13	0.3
			RNA 6903UU	RNA 6903U	40.5	22	30	23	0.3
25	RNA 4904UU —	RNA 4904U —	—	—	54.5	25	37	17	0.3
			RNA 6904UU	RNA 6904U	95.5	25	37	30	0.3
28	RNA 49/22UU —	RNA 49/22U —	—	—	55.5	28	39	17	0.3
			RNA 69/22UU	RNA 69/22U	97.5	28	39	30	0.3
30	RNA 4905UU —	RNA 4905U —	—	—	63	30	42	17	0.3
			RNA 6905UU	RNA 6905U	111	30	42	30	0.3
32	RNA 49/28UU —	RNA 49/28U —	—	—	75.5	32	45	17	0.3
			RNA 69/28UU	RNA 69/28U	133	32	45	30	0.3
35	RNA 4906UU —	RNA 4906U —	—	—	71	35	47	17	0.3
			RNA 6906UU	RNA 6906U	125	35	47	30	0.3
40	RNA 49/32UU —	RNA 49/32U —	—	—	94.5	40	52	20	0.6
			RNA 69/32UU	RNA 69/32U	170	40	52	36	0.6
42	RNA 4907UU —	RNA 4907U —	—	—	112	42	55	20	0.6
			RNA 6907UU	RNA 6907U	200	42	55	36	0.6
45	RNA 49/38UU	RNA 49/38U	—	—	119	45	58	20	0.6

Notes⁽¹⁾ Minimum allowable value of chamfer dimension r
⁽²⁾ Allowable rotational speed applies to grease lubrication.

Remarks1. The outer ring has an oil groove and an oil hole.
 2. Bearings with seals on both sides are provided with prepacked grease. Bearings with a seal on one side are not provided with prepacked grease. Perform proper lubrication for use.



RNA49...U
RNA69...U ($F_w \leq 35$)

RNA69...UU

RNA69...U

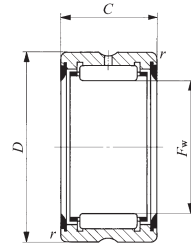
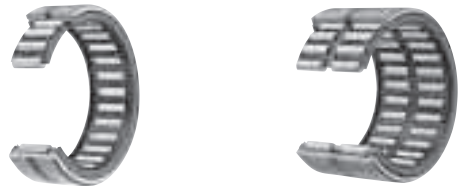
Standard mounting dimension D_a Max. mm	Basic dynamic load rating C N	Basic static load rating C_0 N	Allowable rotational speed ⁽²⁾ rpm
20	8 080	8 490	14 000
22	8 470	9 320	12 000
22	15 500	20 400	12 000
24	9 260	10 800	11 000
26	9 570	11 600	9 500
26	18 500	27 100	9 500
28	10 300	13 100	8 500
28	19 800	30 600	8 500
35	18 000	20 500	7 500
35	33 000	44 600	7 500
37	18 300	23 700	7 000
37	33 800	52 000	7 000
40	20 300	25 100	6 500
40	39 200	58 700	6 500
43	21 000	26 800	6 000
43	38 900	59 100	6 000
45	21 500	28 400	5 500
45	40 100	63 000	5 500
48	29 400	44 200	5 000
48	50 300	88 300	5 000
51	30 100	46 300	4 500
51	51 600	92 600	4 500
54	31 600	50 400	4 000

D

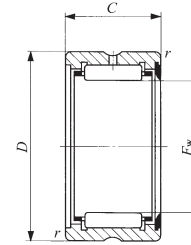
NA
TAFI
TRI
BRI

MACHINED TYPE NEEDLE ROLLER BEARINGS

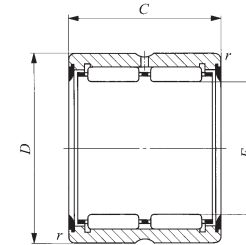
With Seal, Without Inner Ring



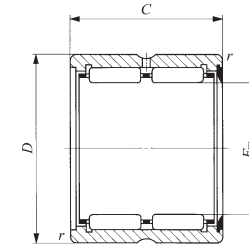
RNA49...UU



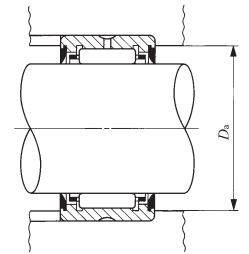
RNA49...U



RNA69...UU



RNA69...U



Shaft dia. 48 – 85mm

Shaft dia. mm	Identification number				Mass (Ref.) g	Boundary dimensions mm			
	With two seals	With one seal	With two seals	With one seal		F_w	D	C	$r_{s\ min}^{(1)}$
48	RNA 4908UU	RNA 4908U	—	—	150	48	62	22	0.6
	—	—	RNA 6908UU	RNA 6908U	270	48	62	40	0.6
50	RNA 49/42UU	RNA 49/42U	—	—	173	50	65	22	0.6
52	RNA 4909UU	RNA 4909U	—	—	197	52	68	22	0.6
	—	—	RNA 6909UU	RNA 6909U	355	52	68	40	0.6
55	RNA 49/48UU	RNA 49/48U	—	—	187	55	70	22	0.6
58	RNA 4910UU	RNA 4910U	—	—	177	58	72	22	0.6
	—	—	RNA 6910UU	RNA 6910U	320	58	72	40	0.6
60	RNA 49/52UU	RNA 49/52U	—	—	200	60	75	22	0.6
63	RNA 4911UU	RNA 4911U	—	—	265	63	80	25	1
	—	—	RNA 6911UU	RNA 6911U	470	63	80	45	1
65	RNA 49/58UU	RNA 49/58U	—	—	275	65	82	25	1
68	RNA 4912UU	RNA 4912U	—	—	285	68	85	25	1
	—	—	RNA 6912UU	RNA 6912U	505	68	85	45	1
70	RNA 49/62UU	RNA 49/62U	—	—	320	70	88	25	1
72	RNA 4913UU	RNA 4913U	—	—	325	72	90	25	1
	—	—	RNA 6913UU	RNA 6913U	580	72	90	45	1
75	RNA 49/68UU	RNA 49/68U	—	—	465	75	95	30	1
80	RNA 4914UU	RNA 4914U	—	—	495	80	100	30	1
	—	—	RNA 6914UU	RNA 6914U	910	80	100	54	1
85	RNA 4915UU	RNA 4915U	—	—	520	85	105	30	1
	—	—	RNA 6915UU	RNA 6915U	960	85	105	54	1

Notes⁽¹⁾ Minimum allowable value of chamfer dimension r
⁽²⁾ Allowable rotational speed applies to grease lubrication.

Remarks1. The outer ring has an oil groove and an oil hole.
 2. Bearings with seals on both sides are provided with prepacked grease. Bearings with a seal on one side are not provided with prepacked grease. Perform proper lubrication for use.

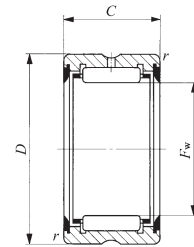
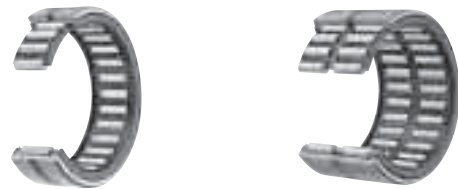
Standard mounting dimension D_a Max. mm	Basic dynamic load rating C N	Basic static load rating C_0 N	Allowable rotational speed ⁽²⁾ rpm
58	37 200	58 400	4 000
58	63 700	117 000	4 000
61	38 000	60 900	4 000
64	38 900	63 400	3 500
64	66 600	127 000	3 500
66	39 600	66 100	3 500
68	41 300	71 100	3 500
68	70 800	142 000	3 500
71	42 100	73 600	3 000
75	52 200	85 700	3 000
75	89 400	171 000	3 000
77	53 400	89 200	3 000
80	54 500	92 800	3 000
80	93 400	186 000	3 000
83	55 700	96 300	2 500
85	56 800	99 800	2 500
85	97 400	200 000	2 500
90	73 900	133 000	2 500
95	76 900	143 000	2 500
95	124 000	281 000	2 500
100	79 600	153 000	2 000
100	128 000	299 000	2 000

D

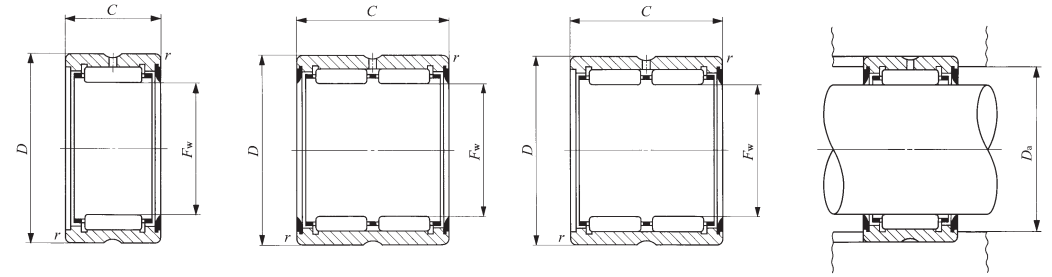
NA
TAFI
TRI
BRI

MACHINED TYPE NEEDLE ROLLER BEARINGS

With Seal, Without Inner Ring



RNA49...UU



RNA49...U

RNA69...UU

RNA69...U

Shaft dia. 90 – 160mm

Shaft dia. mm	Identification number				Mass (Ref.) g	Boundary dimensions mm			
	With two seals	With one seal	With two seals	With one seal		F_w	D	C	$r_{s \min}^{(1)}$
90	RNA 4916UU	RNA 4916U	—	—	545	90	110	30	1
	—	—	RNA 6916UU	RNA 6916U	1 010	90	110	54	1
95	RNA 49/82UU	RNA 49/82U	—	—	570	95	115	30	1
100	RNA 4917UU	RNA 4917U	—	—	695	100	120	35	1.1
	—	—	RNA 6917UU	RNA 6917U	1 300	100	120	63	1.1
105	RNA 4918UU	RNA 4918U	—	—	730	105	125	35	1.1
	—	—	RNA 6918UU	RNA 6918U	1 360	105	125	63	1.1
110	RNA 4919UU	RNA 4919U	—	—	760	110	130	35	1.1
	—	—	RNA 6919UU	RNA 6919U	1 420	110	130	63	1.1
115	RNA 4920UU	RNA 4920U	—	—	1 200	115	140	40	1.1
125	RNA 4922UU	RNA 4922U	—	—	1 280	125	150	40	1.1
135	RNA 4924UU	RNA 4924U	—	—	1 940	135	165	45	1.1
150	RNA 4926UU	RNA 4926U	—	—	2 360	150	180	50	1.5
160	RNA 4928UU	RNA 4928U	—	—	2 510	160	190	50	1.5

Notes⁽¹⁾ Minimum allowable value of chamfer dimension r
⁽²⁾ Allowable rotational speed applies to grease lubrication.

Remarks1. The outer ring has an oil groove and an oil hole.
 2. Bearings with seals on both sides are provided with prepacked grease. Bearings with a seal on one side are not provided with prepacked grease. Perform proper lubrication for use.

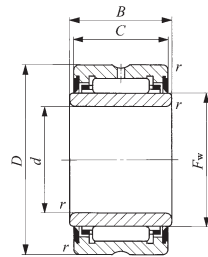
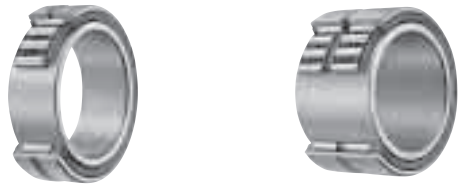
Standard mounting dimension D_a Max. mm	Basic dynamic load rating C N	Basic static load rating C_0 N	Allowable rotational speed ⁽²⁾ rpm
105	80 700	158 000	2 000
105	132 000	317 000	2 000
110	83 200	168 000	2 000
113.5	103 000	225 000	1 900
113.5	168 000	448 000	1 900
118.5	106 000	238 000	1 800
118.5	172 000	471 000	1 800
123.5	109 000	250 000	1 700
123.5	177 000	493 000	1 700
133.5	134 000	297 000	1 700
143.5	140 000	322 000	1 500
158.5	178 000	410 000	1 400
172	206 000	511 000	1 300
182	214 000	549 000	1 200

D

NA
TAFI
TRI
BRI

MACHINED TYPE NEEDLE ROLLER BEARINGS

With Seal, With Inner Ring



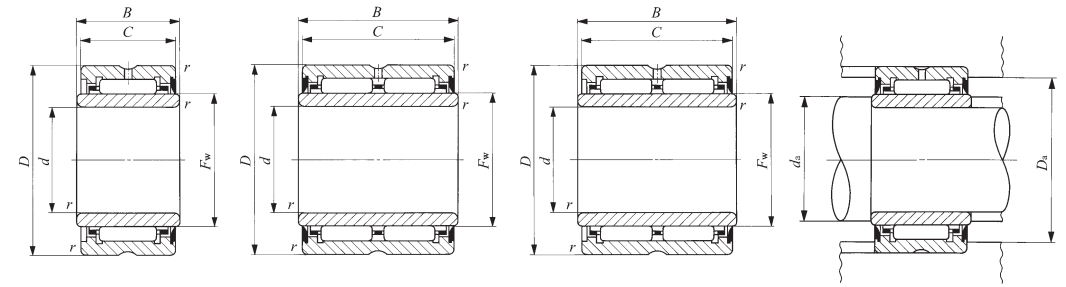
NA49...UU
NA69...UU ($d \leq 30$)

Shaft dia. 10 – 40mm

Shaft dia. mm	Identification number				Mass (Ref.) g	Boundary dimensions mm			
	With two seals	With one seal	With two seals	With one seal		d	D	C	B
10	NA 4900UU	NA 4900U	—	—	24.5	10	22	13	14
12	NA 4901UU —	NA 4901U —	—	—	27.5	12	24	13	14
			NA 6901UU	NA 6901U	45.5	12	24	22	23
15	NA 4902UU —	NA 4902U —	—	—	36	15	28	13	14
			NA 6902UU	NA 6902U	62.5	15	28	23	24
17	NA 4903UU —	NA 4903U —	—	—	39.5	17	30	13	14
			NA 6903UU	NA 6903U	68.5	17	30	23	24
20	NA 4904UU —	NA 4904U —	—	—	78.5	20	37	17	18
			NA 6904UU	NA 6904U	137	20	37	30	31
22	NA 49/22UU —	NA 49/22U —	—	—	87.5	22	39	17	18
			NA 69/22UU	NA 69/22U	153	22	39	30	31
25	NA 4905UU —	NA 4905U —	—	—	92.5	25	42	17	18
			NA 6905UU	NA 6905U	162	25	42	30	31
28	NA 49/28UU —	NA 49/28U —	—	—	101	28	45	17	18
			NA 69/28UU	NA 69/28U	177	28	45	30	31
30	NA 4906UU —	NA 4906U —	—	—	106	30	47	17	18
			NA 6906UU	NA 6906U	185	30	47	30	31
32	NA 49/32UU —	NA 49/32U —	—	—	167	32	52	20	21
			NA 69/32UU	NA 69/32U	300	32	52	36	37
35	NA 4907UU —	NA 4907U —	—	—	179	35	55	20	21
			NA 6907UU	NA 6907U	320	35	55	36	37
40	NA 4908UU —	NA 4908U —	—	—	245	40	62	22	23
			NA 6908UU	NA 6908U	440	40	62	40	41

Notes⁽¹⁾ Minimum allowable value of chamfer dimension r
⁽²⁾ Allowable rotational speed applies to grease lubrication.

Remarks1. The outer ring has an oil groove and an oil hole.
 2. Bearings with seals on both sides are provided with prepacked grease. Bearings with a seal on one side are not provided with prepacked grease. Perform proper lubrication for use.



NA49...U
NA69...U ($d \leq 30$)

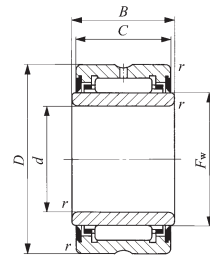
NA69...UU

NA69...U

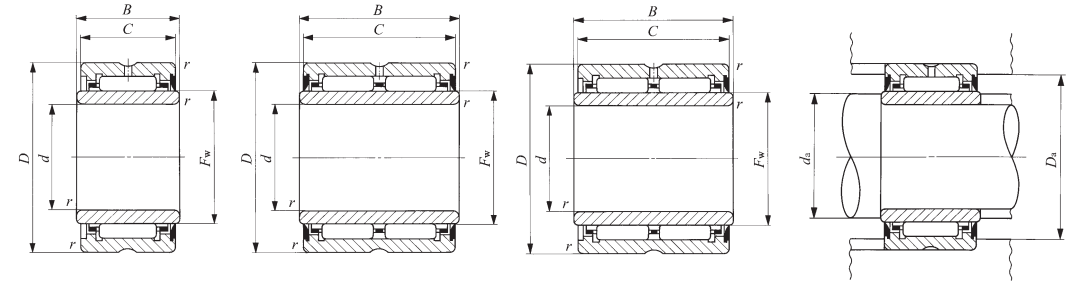
$r_{s \min}$ ⁽¹⁾	F_w	Standard mounting dimensions mm			Basic dynamic load rating C N	Basic static load rating C_0 N	Allowable rotational speed ⁽²⁾ rpm	Assembled inner ring
		Min. d_a	Max. d_a	D_a Max.				
0.3	14	12	13	20	8 080	8 490	14 000	LRTZ 101414
0.3	16	14	15	22	8 470	9 320	12 000	LRTZ 121614
0.3	20	17	19	26	9 570	11 600	9 500	LRTZ 152014
0.3	22	19	21	28	10 300	13 100	8 500	LRTZ 172214
0.3	25	22	24	35	18 000	20 500	7 500	LRTZ 202518
0.3	28	24	27	37	18 300	23 700	7 000	LRTZ 222818
0.3	30	27	29	40	20 300	25 100	6 500	LRTZ 253018
0.3	32	30	31	43	21 000	26 800	6 000	LRTZ 283218
0.3	35	32	34	45	21 500	28 400	5 500	LRTZ 303518
0.6	40	36	39	48	29 400	44 200	5 000	LRTZ 324021
0.6	42	39	41	51	30 100	46 300	4 500	LRTZ 354221
0.6	48	44	47	58	37 200	58 400	4 000	LRTZ 404823

MACHINED TYPE NEEDLE ROLLER BEARINGS

With Seal, With Inner Ring



NA49...UU



NA49...U

NA69...UU

NA69...U

Shaft dia. 45 – 110mm

Shaft dia. mm	Identification number				Mass (Ref.) g	Boundary dimensions mm			
	With two seals	With one seal	With two seals	With one seal		d	D	C	B
45	NA 4909UU	NA 4909U	—	—	290	45	68	22	23
	—	—	NA 6909UU	NA 6909U	520	45	68	40	41
50	NA 4910UU	NA 4910U	—	—	295	50	72	22	23
	—	—	NA 6910UU	NA 6910U	530	50	72	40	41
55	NA 4911UU	NA 4911U	—	—	415	55	80	25	26
	—	—	NA 6911UU	NA 6911U	730	55	80	45	46
60	NA 4912UU	NA 4912U	—	—	445	60	85	25	26
	—	—	NA 6912UU	NA 6912U	785	60	85	45	46
65	NA 4913UU	NA 4913U	—	—	475	65	90	25	26
	—	—	NA 6913UU	NA 6913U	845	65	90	45	46
70	NA 4914UU	NA 4914U	—	—	770	70	100	30	31
	—	—	NA 6914UU	NA 6914U	1 400	70	100	54	55
75	NA 4915UU	NA 4915U	—	—	815	75	105	30	31
	—	—	NA 6915UU	NA 6915U	1 480	75	105	54	55
80	NA 4916UU	NA 4916U	—	—	860	80	110	30	31
	—	—	NA 6916UU	NA 6916U	1 570	80	110	54	55
85	NA 4917UU	NA 4917U	—	—	1 300	85	120	35	36
	—	—	NA 6917UU	NA 6917U	2 360	85	120	63	64
90	NA 4918UU	NA 4918U	—	—	1 360	90	125	35	36
	—	—	NA 6918UU	NA 6918U	2 480	90	125	63	64
95	NA 4919UU	NA 4919U	—	—	1 420	95	130	35	36
	—	—	NA 6919UU	NA 6919U	2 600	95	130	63	64
100	NA 4920UU	NA 4920U	—	—	1 980	100	140	40	41
110	NA 4922UU	NA 4922U	—	—	2 150	110	150	40	41

Notes⁽¹⁾ Minimum allowable value of chamfer dimension r
⁽²⁾ Allowable rotational speed applies to grease lubrication.

Remarks1. The outer ring has an oil groove and an oil hole.
 2. Bearings with seals on both sides are provided with prepacked grease. Bearings with a seal on one side are not provided with prepacked grease. Perform proper lubrication for use.

$F_{s \min}$ ⁽¹⁾	F_w	Standard mounting dimensions mm			Basic dynamic load rating C N	Basic static load rating C ₀ N	Allowable rotational speed ⁽²⁾ rpm	Assembled inner ring	
		Min. d_a	Max. d_a	Max. D_a				LRTZ	Part Number
0.6	52	49	51	64	38 900	63 400	3 500	LRTZ	455223
	52	49	51	64	66 600	127 000	3 500	LRTZ	455241
0.6	58	54	57	68	41 300	71 100	3 500	LRTZ	505823
	58	54	57	68	70 800	142 000	3 500	LRTZ	505841
1	63	60	61	75	52 200	85 700	3 000	LRTZ	556326
	63	60	61	75	89 400	171 000	3 000	LRTZ	556346
1	68	65	66	80	54 500	92 800	3 000	LRTZ	606826
	68	65	66	80	93 400	186 000	3 000	LRTZ	606846
1	72	70	70.5	85	56 800	99 800	2 500	LRTZ	657226
	72	70	70.5	85	97 400	200 000	2 500	LRTZ	657246
1	80	75	78	95	76 900	143 000	2 500	LRTZ	708031
	80	75	78	95	124 000	281 000	2 500	LRTZ	708055
1	85	80	83	100	79 600	153 000	2 000	LRTZ	758531
	85	80	83	100	128 000	299 000	2 000	LRTZ	758555
1	90	85	88	105	80 700	158 000	2 000	LRTZ	809031
	90	85	88	105	132 000	317 000	2 000	LRTZ	809055
1.1	100	91.5	98	113.5	103 000	225 000	1 900	LRTZ	8510036
	100	91.5	98	113.5	168 000	448 000	1 900	LRTZ	8510064
1.1	105	96.5	103	118.5	106 000	238 000	1 800	LRTZ	9010536
	105	96.5	103	118.5	172 000	471 000	1 800	LRTZ	9010564
1.1	110	101.5	108	123.5	109 000	250 000	1 700	LRTZ	9511036
	110	101.5	108	123.5	177 000	493 000	1 700	LRTZ	9511064
1.1	115	106.5	113	133.5	134 000	297 000	1 700	LRTZ	10011541
	125	116.5	123	143.5	140 000	322 000	1 500	LRTZ	11012541

MACHINED TYPE NEEDLE ROLLER BEARINGS

With Seal, With Inner Ring

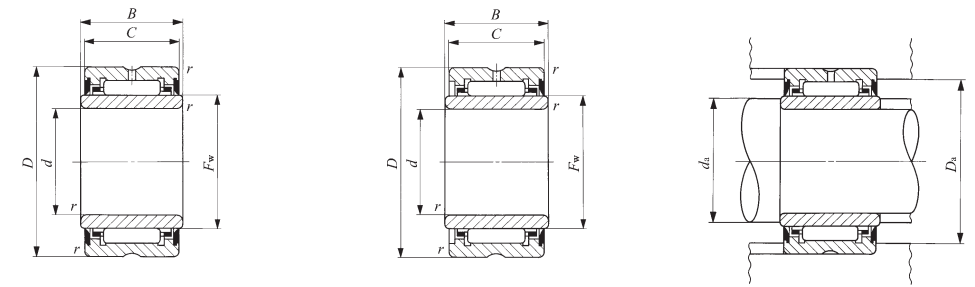


Shaft dia. 120 – 140mm

Shaft dia. mm	Identification number				Mass (Ref.) g	Boundary dimensions mm			
	With two seals	With one seal	With two seals	With one seal		<i>d</i>	<i>D</i>	<i>C</i>	<i>B</i>
120	NA 4924UU	NA 4924U	—	—	2 990	120	165	45	46
130	NA 4926UU	NA 4926U	—	—	4 080	130	180	50	51
140	NA 4928UU	NA 4928U	—	—	4 340	140	190	50	51

Notes⁽¹⁾ Minimum allowable value of chamfer dimension *r*
⁽²⁾ Allowable rotational speed applies to grease lubrication.

Remarks1. The outer ring has an oil groove and an oil hole.
 2. Bearings with seals on both sides are provided with prepacked grease. Bearings with a seal on one side are not provided with prepacked grease. Perform proper lubrication for use.



NA49...UU

NA49...U

<i>F_s</i> min ⁽¹⁾	<i>F_w</i>	Standard mounting dimensions mm			Basic dynamic load rating <i>C</i> N	Basic static load rating <i>C₀</i> N	Allowable rotational speed ⁽²⁾ rpm	Assembled inner ring
		Min. <i>d_a</i>	Max. <i>d_a</i>	<i>D_a</i> Max.				
1.1	135	126.5	133	158.5	178 000	410 000	1 400	LRTZ 12013546
1.5	150	138	148	172	206 000	511 000	1 300	LRTZ 13015051
1.5	160	148	158	182	214 000	549 000	1 200	LRTZ 14016051

D

NA
TAFI
TRI
BRI