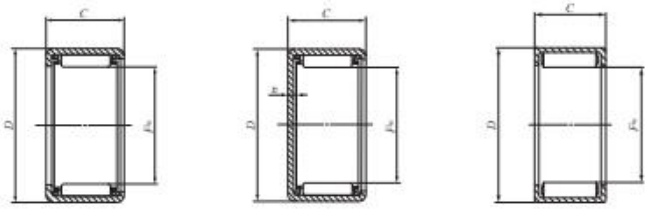
SORUPACHAI

SHELL TYPE NEEDLE ROLLER BEARINGS





TA···Z TLA···Z TAM TLAM YT YTL

Shaft dia. 4 — 10mm

Shaft dia. mm	Identification number										Boundary dimensions mm				Standard mounting dimensions mm						Basic dynamic load rating C	Basic static load rating C_0	Allowable rotational speed(1)	Assembled inner ring
	Standard	Mass (Ref.) g	Closed end	Mass (Ref.) g	Standard	Mass (Ref.) g	Closed end	Mass (Ref.) g	Grease retained	Mass (Ref.) g	F_w	D	C	t_2 Max.	Shaft dia. h6 Max.	Shaft dia. h6 Min.	Housing bore dia. J7 Max.	Housing bore dia. J7 Min.	Housing bore dia. N7 Max.	Housing bore dia. N7 Min.	N	N	min⁻¹	
4	—	—	—	—	TLA 48 Z	1.54	TLAM 48	1.67	—	—	4	8	8	1	4.000	3.992	—	—	7.996	7.981	1 350	1 010	75 000	—
	—	—	—	—	—	—	—	—	YTL 48	1.73	4	8	8	—							3 010	2 900	40 000	—
5	—	—	—	—	TLA 59 Z	1.9	TLAM 59	2	—	—	5	9	9	1	5.000	4.992	—	—	8.996	8.981	1 880	1 600	65 000	—
	—	—	—	—	—	—	—	—	YTL 59	2.4	5	9	9	—							4 320	4 750	30 000	—
6	—	—	—	—	TLA 69 Z	2.2	TLAM 69	2.3	—	—	6	10	9	1	6.000	5.992	—	—	9.996	9.981	2 100	1 900	55 000	—
7	—	—	—	—	TLA 79 Z	2.5	TLAM 79	2.7	—	—	7	11	9	1	7.000	6.991	—	—	10.995	10.977	2 490	2 450	50 000	—
8	—	—	—	—	TLA 810 Z	3.1	TLAM 810	3.3	—	—	8	12	10	1	8.000	7.991	—	—	11.995	11.977	3 320	3 670	45 000	—
	TA 810 Z	6.7	TAM 810	7.1	—	—	—	—	—	—	8	15	10	1.3	8.000	7.991	15.010	14.992	—	—	3 470	2 880	45 000	—
	TA 815 Z	9.7	TAM 815	10.1	—	—	—	—	—	—	8	15	15	1.3							5 780	5 570	45 000	—
	TA 820 Z	12.9	TAM 820	13.3	—	—	—	—	—	—	8	15	20	1.3							8 340	8 920	45 000	—
	—	—	—	—	—	—	—	—	YT 810	7.7	8	15	10	—							7 530	7 950	19 000	—
9	—	—	—	—	TLA 910 Z	3.4	TLAM 910	3.6	—	—	9	13	10	1	9.000	8.991	—	—	12.995	12.977	3 500	4 040	45 000	—
	—	—	—	—	TLA 912 Z	4	TLAM 912	4.3	—	—	9	13	12	1							4 460	5 510	45 000	—
	TA 912 Z	8.7	TAM 912	9.2	—	—	—	—	—	—	9	16	12	1.3	9.000	8.991	16.010	15.992	—	—	5 140	4 880	45 000	—
	TA 916 Z	11.4	TAM 916	11.9	—	—	—	—	—	—	9	16	16	1.3							6 960	7 210	45 000	—
	—	—	—	—	—	—	—	—	YT 912	10.1	9	16	12	—							9 690	11 200	17 000	—
10	—	—	—	—	TLA 1010 Z	3.7	TLAM 1010	4	—	—	10	14	10	1	10.000	9.991	—	—	13.995	13.977	3 870	4 740	40 000	IRT 710
	—	—	—	—	TLA 1012 Z	4.4	TLAM 1012	4.8	—	—	10	14	12	1							4 920	6 460	40 000	IRT 712
	—	—	—	—	TLA 1015 Z	5.5	TLAM 1015	5.9	—	—	10	14	15	1							6 390	9 040	40 000	IRT 715
	TA 1010 Z	7.9	TAM 1010	8.5	—	—	—	—	—	—	10	17	10	1.3	10.000	9.991	17.010	16.992	—	—	4 150	3 780	40 000	IRT 710
	TA 1012 Z	9.3	TAM 1012	10	—	—	—	—	—	—	10	17	12	1.3							5 590	5 540	40 000	IRT 712
	TA 1015 Z	11.5	TAM 1015	12.2	—	—	—	—	—	—	10	17	15	1.3							6 920	7 300	40 000	IRT 715
	TA 1020 Z	15.4	TAM 1020	16	—	—	—	—	—	—	10	17	20	1.3							9 990	11 700	40 000	—

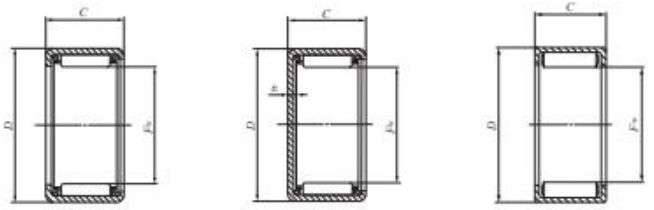
Note(1) Allowable rotational speed applies to oil lubrication. For grease lubrication, a maximum of 60% of this value is allowable.
Remark Shell Type Grease Retained Full Complement Needle Roller Bearings are provided with prepacked grease. Standard type and close end type bearings are not provided with prepacked grease, so perform proper lubrication when using these types of bearings.

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

SORUPACHAI

SHELL TYPE NEEDLE ROLLER BEARINGS





TA···Z TLA···Z TAM TLAM YT YTL

Shaft dia. 12 — 15mm

Shaft dia. mm	Identification number										Boundary dimensions mm				Standard mounting dimensions mm						Basic dynamic load rating C N	Basic static load rating C_0 N	Allowable rotational speed(1) min⁻¹	Assembled inner ring
															Shaft dia. h6		Housing bore dia. J7		N7					
	Standard	Mass (Ref.) g	Closed end	Mass (Ref.) g	Standard	Mass (Ref.) g	Closed end	Mass (Ref.) g	Grease retained	Mass (Ref.) g	F_w	D	C	t_2 Max.	Max.	Min.	Max.	Min.	Max.	Min.				
12	—	—	—	—	TLA 1210 Z	4.3	TLAM 1210	4.7	—	—	12	16	10	1	12.000	11.989	—	—	15.995	15.977	4 350	5 810	35 000	IRT 810
	—	—	—	—	—	—	—	—	YTL 1210	5.1	12	16	10	—							7 470	11 800	13 000	IRT 810
	—	—	—	—	TLA 1212 Z	8.6	TLAM 1212	9.4	—	—	12	18	12	1.3	12.000	11.989	—	—	17.995	17.977	6 420	7 490	35 000	IRT 812
	TA 1212 Z	10.5	TAM 1212	11.5	—	—	—	—	—	—	12	19	12	1.3							6 000	6 310	35 000	IRT 812
	TA 1215 Z	13.1	TAM 1215	14	—	—	—	—	—	—	12	19	15	1.3							7 440	8 320	35 000	IRT 815
	TA 1220 Z	17.3	TAM 1220	18.3	—	—	—	—	—	—	12	19	20	1.3	12.000	11.989	19.012	18.991	—	—	10 700	13 300	35 000	—
	TA 1225 Z	21.5	TAM 1225	22.5	—	—	—	—	—	—	12	19	25	1.3							13 800	18 300	35 000	—
	—	—	—	—	—	—	—	—	YT 1212	12.8	12	19	12	—							11 800	15 200	13 000	IRT 812
13	—	—	—	—	TLA 1312 Z	9.2	TLAM 1312	10.1	—	—	13	19	12	1.3	13.000	12.989	—	—	18.993	18.972	6 760	8 170	30 000	IRT 1012
14	—	—	—	—	TLA 1412 Z	9.8	TLAM 1412	10.8	—	—	14	20	12	1.3	14.000	13.989	—	—	19.993	19.972	7 080	8 840	30 000	IRT 1012-2
	—	—	—	—	TLA 1416 Z	13.2	TLAM 1416	14.3	—	—	14	20	16	1.3							8 950	12 000	30 000	IRT 1016-2
	TA 1416 Z	18.4	TAM 1416	19.6	—	—	—	—	—	—	14	22	16	1.3	14.000	13.989	22.012	21.991	—	—	10 500	12 000	30 000	IRT 1016-2
	TA 1420 Z	23	TAM 1420	24	—	—	—	—	—	—	14	22	20	1.3							13 900	17 200	30 000	IRT 1020-2
15	—	—	—	—	TLA 1512 Z	10.4	TLAM 1512	11.5	—	—	15	21	12	1.3	15.000	14.989	—	—	20.993	20.972	7 380	9 520	25 000	IRT 1212
	—	—	—	—	TLA 1516 Z	14	TLAM 1516	15.2	—	—	15	21	16	1.3							9 330	12 900	25 000	IRT 1216
	—	—	—	—	TLA 1522 Z	19.1	TLAM 1522	20.5	—	—	15	21	22	1.3							13 600	20 900	25 000	IRT 1222
	TA 1510 Z	10.8	TAM 1510	12.3	—	—	—	—	—	—	15	22	10	1.3							5 290	5 680	25 000	IRT 1010-1
	TA 1512 Z	12.9	TAM 1512	14.3	—	—	—	—	—	—	15	22	12	1.3							7 120	8 310	25 000	IRT 1012-1
	TA 1515 Z	15.9	TAM 1515	17.3	—	—	—	—	—	—	15	22	15	1.3	15.000	14.989	22.012	21.991	—	—	8 830	11 000	25 000	IRT 1015-1
	TA 1520 Z	21	TAM 1520	22.5	—	—	—	—	—	—	15	22	20	1.3							12 700	17 600	25 000	IRT 1020-1
	TA 1525 Z	25	TAM 1525	26.5	—	—	—	—	—	—	15	22	25	1.3							16 300	24 200	25 000	IRT 1025-1

Note(1) Allowable rotational speed applies to oil lubrication. For grease lubrication, a maximum of 60% of this value is allowable.
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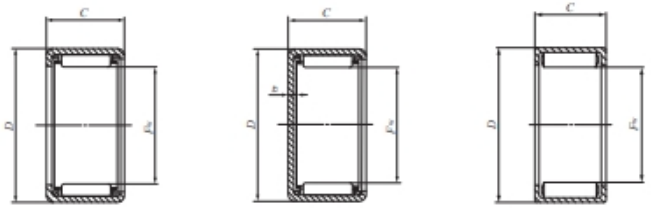
1N=0.102kgf=0.2248lbs.
1mm=0.03937inch

SORUPACHAI

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SHELL TYPE NEEDLE ROLLER BEARINGS





Shaft dia. 16 — 19mm

Shaft dia. mm	Identification number										Boundary dimensions mm				Standard mounting dimensions mm						Basic dynamic load rating	Basic static load rating	Allowable rotational speed(1)	Assembled inner ring
															Shaft dia. h6		Housing bore dia. J7		Housing bore dia. N7					
	Standard	Mass (Ref.) g	Closed end	Mass (Ref.) g	Standard	Mass (Ref.) g	Closed end	Mass (Ref.) g	Grease retained	Mass (Ref.) g	F_w	D	C	t_2 Max.	Max.	Min.	Max.	Min.	Max.	Min.	C N	C_0 N	min⁻¹	
16	—	—	—	—	TLA 1612 Z	10.9	TLAM 1612	12.2	—	—	16	22	12	1.3							7 670	10 200	25 000	IRT 1212-1
	—	—	—	—	TLA 1616 Z	14.8	TLAM 1616	16.1	—	—	16	22	16	1.3	16.000	15.989	—	—	21.993	21.972	9 700	13 800	25 000	IRT 1216-1
	—	—	—	—	TLA 1622 Z	20	TLAM 1622	21.5	—	—	16	22	22	1.3							14 200	22 400	25 000	IRT 1222-1
	TA 1616 Z	20	TAM 1616	22	—	—	—	—	—	—	16	24	16	1.3	16.000	15.989	24.012	23.991	—	—	11 100	13 300	25 000	IRT 1216-1
	TA 1620 Z	25	TAM 1620	27	—	—	—	—	—	—	16	24	20	1.3							14 700	19 100	25 000	IRT 1220-1
17	—	—	—	—	TLA 1712 Z	11.5	TLAM 1712	13	—	—	17	23	12	1.3	17.000	16.989	—	—	22.993	22.972	7 960	10 900	25 000	—
	TA 1715 Z	17.6	TAM 1715	19.5	—	—	—	—	—	—	17	24	15	1.3							9 660	12 700	25 000	IRT 1215-2
	TA 1720 Z	23.5	TAM 1720	25	—	—	—	—	—	—	17	24	20	1.3							13 900	20 400	25 000	IRT 1220-2
	TA 1725 Z	29	TAM 1725	31	—	—	—	—	—	—	17	24	25	1.3	17.000	16.989	24.012	23.991	—	—	17 900	28 100	25 000	IRT 1225-2
	—	—	—	—	—	—	—	—	YT 1715	20.5	17	24	15	—							16 600	26 000	9 000	IRT 1215-2
	—	—	—	—	—	—	—	—	YT 1725	35.5	17	24	25	—							27 200	49 000	9 000	IRT 1225-2
18	—	—	—	—	TLA 1812 Z	12	TLAM 1812	13.7	—	—	18	24	12	1.3	18.000	17.989	—	—	23.993	23.972	8 230	11 500	20 000	IRT 1512
	—	—	—	—	TLA 1816 Z	16.2	TLAM 1816	17.9	—	—	18	24	16	1.3							10 400	15 600	20 000	IRT 1516
	TA 1813 Z	16.4	TAM 1813	18.5	—	—	—	—	—	—	18	25	13	1.3							9 100	12 000	20 000	IRT 1513
	TA 1815 Z	18.5	TAM 1815	20.5	—	—	—	—	—	—	18	25	15	1.3							10 100	13 600	20 000	IRT 1515
	TA 1817 Z	21	TAM 1817	23	—	—	—	—	—	—	18	25	17	1.3							11 900	16 900	20 000	IRT 1517
	TA 1819 Z	23.5	TAM 1819	25.5	—	—	—	—	—	—	18	25	19	1.3	18.000	17.989	25.012	24.991	—	—	13 700	20 200	20 000	IRT 1519
	TA 1820 Z	24.5	TAM 1820	26.5	—	—	—	—	—	—	18	25	20	1.3							14 500	21 800	20 000	IRT 1520
	TA 1825 Z	30.5	TAM 1825	32.5	—	—	—	—	—	—	18	25	25	1.3							18 600	30 000	20 000	IRT 1525
19	TA 1916 Z	23	TAM 1916	25.5	—	—	—	—	—	—	19	27	16	1.3	19.000	18.987	27.012	26.991	—	—	12 200	15 700	20 000	IRT 1516-1
	TA 1920 Z	29	TAM 1920	31	—	—	—	—	—	—	19	27	20	1.3							16 100	22 600	20 000	IRT 1520-1

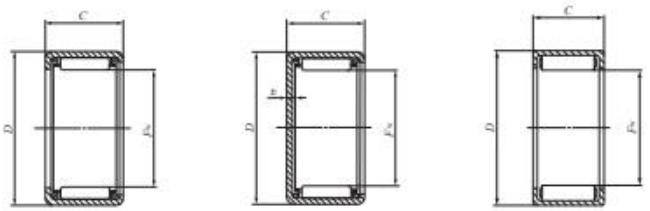
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1N=0.102kgf=0.2248lbs.
1mm=0.03937inch

SORUPACHAI

SHELL TYPE NEEDLE ROLLER BEARINGS





Shaft dia. 20 — 21mm

Shaft dia. mm	Identification number: Standard	Mass (Ref.) g	Closed end	Mass (Ref.) g	Standard	Mass (Ref.) g	Closed end	Mass (Ref.) g	Grease retained	Mass (Ref.) g	Boundary dimensions mm: F_w	D	C	t_2 Max.	Standard mounting dimensions mm: Shaft dia. h6 Max.	Shaft dia. h6 Min.	Housing bore dia. J7 Max.	Housing bore dia. J7 Min.	Housing bore dia. N7 Max.	Housing bore dia. N7 Min.	Basic dynamic load rating C N	Basic static load rating C_0 N	Allowable rotational speed(1) min⁻¹	Assembled inner ring
20	—	—	—	—	TLA 2012 Z	13.2	TLAM 2012	15.2	—	—	20	26	12	1.3	20.000	19.987	—	—	25.993	25.972	8 740	12 900	20 000	—
	—	—	—	—	TLA 2016 Z	17.8	TLAM 2016	19.9	—	—	20	26	16	1.3							11 100	17 500	20 000	IRT 1716
	—	—	—	—	TLA 2020 Z	22	TLAM 2020	24	—	—	20	26	20	1.3							14 500	24 700	20 000	IRT 1720
	—	—	—	—	TLA 2030 Z	33	TLAM 2030	35	—	—	20	26	30	1.3							22 300	42 900	20 000	IRT 1730
	TA 2015 Z	20	TAM 2015	22.5	—	—	—	—	—	—	20	27	15	1.3	20.000	19.987	27.012	26.991	—	—	10 400	14 600	20 000	IRT 1515-2
	TA 2020 Z	26.5	TAM 2020	29	—	—	—	—	—	—	20	27	20	1.3							15 000	23 400	20 000	IRT 1520-2
	TA 2025 Z	33	TAM 2025	35.5	—	—	—	—	—	—	20	27	25	1.3							19 200	32 200	20 000	IRT 1525-2
	TA 2030 Z	39.5	TAM 2030	42	—	—	—	—	—	—	20	27	30	1.3							23 100	41 000	20 000	IRT 1530-2
	—	—	—	—	—	—	—	—	YT 2015	23.5	20	27	15	—							18 400	30 900	7 500	IRT 1515-2
	—	—	—	—	—	—	—	—	YT 2025	41	20	27	25	—							30 000	58 300	7 500	IRT 1525-2
	TA 202820 Z	30	TAM 202820	32.5	—	—	—	—	—	—	20	28	20	1.3	20.000	19.987	28.012	27.991	—	—	16 900	24 300	20 000	IRT 1520-2
	—	—	—	—	—	—	—	—	YT 202820	37.5	20	28	20	—							26 800	44 600	7 500	IRT 1520-2
21	TA 2116 Z	25	TAM 2116	28	—	—	—	—	—	—	21	29	16	1.3	21.000	20.987	29.012	28.991	—	—	13 300	18 100	19 000	IRT 1716-1
	TA 2120 Z	31.5	TAM 2120	34.5	—	—	—	—	—	—	21	29	20	1.3							17 600	25 900	19 000	IRT 1720-1
	—	—	—	—	—	—	—	—	YT 2116	31	21	29	16	—							22 100	35 200	7 000	IRT 1716-1
	—	—	—	—	—	—	—	—	YT 2120	39	21	29	20	—							27 500	46 800	7 000	IRT 1720-1

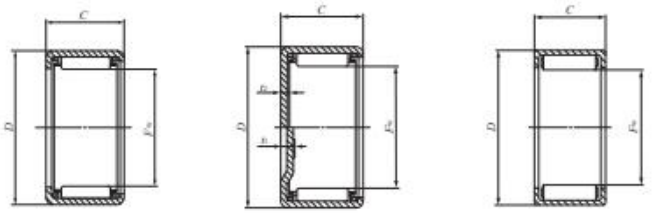
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1N=0.102kgf=0.2248lbs.
1mm=0.03937inch

SORUPACHAI

SHELL TYPE NEEDLE ROLLER BEARINGS





Shaft dia. 22 — 24mm

Shaft dia. mm	Identification number: Standard	Mass (Ref.) g	Closed end	Mass (Ref.) g	Standard	Mass (Ref.) g	Closed end	Mass (Ref.) g	Grease retained	Mass (Ref.) g	Boundary dimensions mm: F_w	D	C	t_1, t_2 Max.	Standard mounting dimensions mm: Shaft dia. h6 Max.	Shaft dia. h6 Min.	Housing bore dia. J7 Max.	Housing bore dia. J7 Min.	Housing bore dia. N7 Max.	Housing bore dia. N7 Min.	Basic dynamic load rating C N	Basic static load rating C_0 N	Allowable rotational speed(1) min⁻¹	Assembled inner ring
22	—	—	—	—	TLA 2212 Z	15.6	TLAM 2212	18.1	—	—	22	28	12	1.3							9 230	14 300	18 000	—
	—	—	—	—	TLA 2216 Z	21.5	TLAM 2216	24	—	—	22	28	16	1.3	22.000	21.987	—	—	27.993	27.972	11 700	19 300	18 000	IRT 1716-2
	—	—	—	—	TLA 2220 Z	26.5	TLAM 2220	29	—	—	22	28	20	1.3							15 300	27 300	18 000	IRT 1720-2
	TA 2210 Z	15	TAM 2210	18.1	—	—	—	—	—	—	22	29	10	1.3							6 650	8 500	18 000	IRT 1710-2
	TA 2215 Z	21.5	TAM 2215	24.5	—	—	—	—	—	—	22	29	15	1.3							11 100	16 400	18 000	IRT 1715-2
	TA 2220 Z	29	TAM 2220	32	—	—	—	—	—	—	22	29	20	1.3	22.000	21.987	29.012	28.991	—	—	16 000	26 300	18 000	IRT 1720-2
	TA 2225 Z	35.5	TAM 2225	38.5	—	—	—	—	—	—	22	29	25	1.3							19 700	34 300	18 000	IRT 1725-2
	TA 2230 Z	42.5	TAM 2230	45.5	—	—	—	—	—	—	22	29	30	1.3							23 800	43 700	18 000	IRT 1730-2
	TA 223016 Z	26	TAM 223016	29	—	—	—	—	—	—	22	30	16	1.3							13 200	18 200	18 000	IRT 1716-2
	TA 223020 Z	32.5	TAM 223020	35.5	—	—	—	—	—	—	22	30	20	1.3	22.000	21.987	30.012	29.991	—	—	17 500	26 100	18 000	IRT 1720-2
	—	—	—	—	—	—	—	—	YT 223016	32	22	30	16	—							22 600	36 800	7 000	IRT 1716-2
	—	—	—	—	—	—	—	—	YT 223020	40.5	22	30	20	—							28 200	48 900	7 000	IRT 1720-2
24	TA 2420 Z	31	TAM 2420	35	—	—	—	—	—	—	24	31	20	3.4							17 000	29 200	16 000	IRT 2020
	TA 2428 Z	43.5	TAM 2428	47	—	—	—	—	—	—	24	31	28	3.4	24.000	23.987	31.014	30.989	—	—	24 500	46 700	16 000	IRT 2028
	—	—	—	—	—	—	—	—	YT 2428	54	24	31	28	—							36 800	79 900	6 500	IRT 2028
	TA 243216 Z	28	TAM 243216	32	—	—	—	—	—	—	24	32	16	3.4							14 200	20 500	16 000	IRT 2016
	TA 243220 Z	35.5	TAM 243220	39	—	—	—	—	—	—	24	32	20	3.4	24.000	23.987	32.014	31.989	—	—	18 800	29 400	16 000	IRT 2020
	—	—	—	—	—	—	—	—	YT 243216	34.5	24	32	16	—							23 700	40 100	6 500	IRT 2016
	—	—	—	—	—	—	—	—	YT 243220	43.5	24	32	20	—							29 500	53 200	6 500	IRT 2020

Note(1) Allowable rotational speed applies to oil lubrication. For grease lubrication, a maximum of 60% of this value is allowable.
Remark Shell Type Grease Retained Full Complement Needle Roller Bearings are provided with prepacked grease. Standard type and close end type bearings are not provided with prepacked grease, so perform proper lubrication when using these types of bearings.

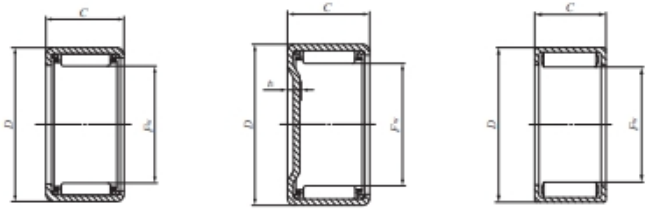
1N=0.102kgf=0.2248lbs.
1mm=0.03937inch

SORUPACHAI

IKO

SHELL TYPE NEEDLE ROLLER BEARINGS





TA···Z TLA···Z TAM TLAM YT YTL

Shaft dia. 25 — 28mm

Shaft dia. mm	Identification number										Boundary dimensions mm				Standard mounting dimensions mm						Basic dynamic load rating C N	Basic static load rating C_0 N	Allowable rotational speed(1) min⁻¹	Assembled inner ring
	Standard	Mass (Ref.) g	Closed end	Mass (Ref.) g	Standard	Mass (Ref.) g	Closed end	Mass (Ref.) g	Grease retained	Mass (Ref.) g	F_w	D	C	t_1 Max.	Shaft dia. h6 Max.	Shaft dia. h6 Min.	Housing bore dia. J7 Max.	Housing bore dia. J7 Min.	Housing bore dia. N7 Max.	Housing bore dia. N7 Min.				
25	—	—	—	—	TLA 2512 Z	19.7	TLAM 2512	23.5	—	—	25	32	12	2.8							9 440	13 900	15 000	—
	—	—	—	—	TLA 2516 Z	26	TLAM 2516	29.5	—	—	25	32	16	2.8							12 800	20 500	15 000	—
	—	—	—	—	TLA 2520 Z	32	TLAM 2520	36	—	—	25	32	20	2.8	25.000	24.987	—	—	31.992	31.967	16 900	29 300	15 000	IRT 2020-1
	—	—	—	—	TLA 2526 Z	41.5	TLAM 2526	45.5	—	—	25	32	26	2.8							22 600	42 500	15 000	IRT 2026-1
	—	—	—	—	TLAW2538Z	58.5	TLAMW2538	62	—	—	25	32	38	2.8							28 900	58 500	15 000	IRT 2038-1
	—	—	—	—	—	—	—	—	YTL 2526	51.5	25	32	26	—							35 000	75 800	6 000	IRT 2026-1
	TA 2510 Z	19.1	TAM 2510	23	—	—	—	—	—	—	25	33	10	3.4							7 990	9 900	15 000	IRT 2010-1
	TA 2515 Z	28.5	TAM 2515	32.5	—	—	—	—	—	—	25	33	15	3.4							13 400	19 300	15 000	IRT 2015-1
	TA 2520 Z	36.5	TAM 2520	40.5	—	—	—	—	—	—	25	33	20	3.4	25.000	24.987	33.014	32.989	—	—	19 500	31 100	15 000	IRT 2020-1
	TA 2525 Z	45.5	TAM 2525	49	—	—	—	—	—	—	25	33	25	3.4							24 100	40 800	15 000	IRT 2025-1
	TA 2530 Z	54.5	TAM 2530	58.5	—	—	—	—	—	—	25	33	30	3.4							29 100	52 000	15 000	IRT 2030-1
	—	—	—	—	—	—	—	—	YT 2510	22.5	25	33	10	—							15 500	23 600	6 000	IRT 2010-1
	—	—	—	—	—	—	—	—	YT 2515	33	25	33	15	—							22 700	38 300	6 000	IRT 2015-1
	—	—	—	—	—	—	—	—	YT 2520	45	25	33	20	—	25.000	24.987	33.014	32.989	—	—	30 200	55 400	6 000	IRT 2020-1
	—	—	—	—	—	—	—	—	YT 2525	57	25	33	25	—							37 200	72 500	6 000	IRT 2025-1
26	TA 2616 Z	30.5	TAM 2616	34.5	—	—	—	—	—	—	26	34	16	3.4							15 200	22 900	15 000	IRT 2216
	TA 2620 Z	38	TAM 2620	42.5	—	—	—	—	—	—	26	34	20	3.4							20 100	32 800	15 000	IRT 2220
	—	—	—	—	—	—	—	—	YT 2616	37	26	34	16	—	26.000	25.987	34.014	33.989	—	—	24 700	43 300	6 000	IRT 2216
	—	—	—	—	—	—	—	—	YT 2620	46.5	26	34	20	—							30 800	57 500	6 000	IRT 2220
28	—	—	—	—	TLA 2816 Z	28.5	TLAM 2816	33.5	—	—	28	35	16	2.8	28.000	27.987	—	—	34.992	34.967	13 800	23 500	13 000	—
	—	—	—	—	TLA 2820 Z	35.5	TLAM 2820	40.5	—	—	28	35	20	2.8							18 300	33 600	13 000	IRT 2220-1
	TA 2820 Z	45	TAM 2820	50	—	—	—	—	—	—	28	37	20	3.4							21 200	32 300	13 000	IRT 2220-1
	TA 2830 Z	67.5	TAM 2830	72.5	—	—	—	—	—	—	28	37	30	3.4	28.000	27.987	37.014	36.989	—	—	33 000	56 900	13 000	IRT 2230-1
	—	—	—	—	—	—	—	—	YT 2820	56.5	28	37	20	—							34 700	61 700	5 500	IRT 2220-1

Note(1) Allowable rotational speed applies to oil lubrication. For grease lubrication, a maximum of 60% of this value is allowable.

Remarks1. "W" in the identification number indicates that rolling elements are arranged in double rows.

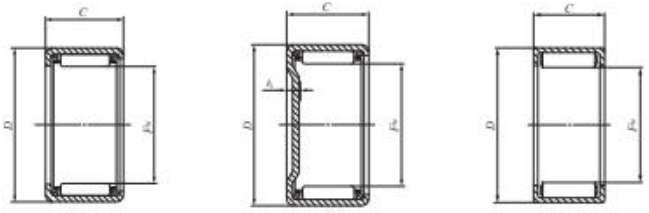
2. Shell Type Grease Retained Full Complement Needle Roller Bearings are provided with prepacked grease. Standard type and closed end type bearings are not provided with prepacked grease, so perform proper lubrication when using these types of bearings.

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

SORUPACHAI

SHELL TYPE NEEDLE ROLLER BEARINGS





TA···Z TLA···Z TAM TLAM YT

Shaft dia. 29 — 35mm

Shaft dia. mm	Identification number: Standard	Mass (Ref.) g	Closed end	Mass (Ref.) g	Standard	Mass (Ref.) g	Closed end	Mass (Ref.) g	Grease retained	Mass (Ref.) g	Boundary dimensions mm: F_w	D	C	f_1 Max.	Standard mounting dimensions mm: Shaft dia. h6 Max.	Shaft dia. h6 Min.	Housing bore dia. J7 Max.	Housing bore dia. J7 Min.	Housing bore dia. N7 Max.	Housing bore dia. N7 Min.	Basic dynamic load rating C N	Basic static load rating C_0 N	Allowable rotational speed(1) min⁻¹	Assembled inner ring
29	TA 2920 Z	47	TAM 2920	52	—	—	—	—	—	—	29	38	20	3.4							22 000	34 200	13 000	IRT 2520
	TA 2930 Z	70	TAM 2930	75.5	—	—	—	—	—	—	29	38	30	3.4	29.000	28.987	38.014	37.989	—	—	34 200	60 300	13 000	IRT 2530
	—	—	—	—	—	—	—	—	YT 2920	58.5	29	38	20	—							35 500	64 100	5 000	IRT 2520
30	—	—	—	—	TLA 3012 Z	23.5	TLAM 3012	29	—	—	30	37	12	2.8							10 400	16 600	12 000	—
	—	—	—	—	TLA 3016 Z	30.5	TLAM 3016	36	—	—	30	37	16	2.8							14 100	24 500	12 000	—
	—	—	—	—	TLA 3018 Z	34.5	TLAM 3018	40	—	—	30	37	18	2.8	30.000	29.987	—	—	36.992	36.967	16 400	29 800	12 000	—
	—	—	—	—	TLA 3020 Z	38	TLAM 3020	43.5	—	—	30	37	20	2.8							18 600	35 100	12 000	IRT 2520-1
	—	—	—	—	TLA 3026 Z	49	TLAM 3026	54.5	—	—	30	37	26	2.8							24 800	50 900	12 000	IRT 2526-1
	—	—	—	—	TLAW3038 Z	69	TLAMW3038	74.5	—	—	30	37	38	2.8							31 900	70 200	12 000	IRT 2538-1
	TA 3013 Z	36.5	TAM 3013	42.5	—	—	—	—	—	—	30	40	13	3.4							13 500	16 800	12 000	—
	TA 3015 Z	42	TAM 3015	47.5	—	—	—	—	—	—	30	40	15	3.4							16 800	22 400	12 000	IRT 2515-1
	TA 3020 Z	54.5	TAM 3020	60	—	—	—	—	—	—	30	40	20	3.4	30.000	29.987	40.014	39.989	—	—	24 500	36 300	12 000	IRT 2520-1
	TA 3025 Z	68	TAM 3025	73.5	—	—	—	—	—	—	30	40	25	3.4							31 600	50 300	12 000	IRT 2525-1
	TA 3030 Z	80	TAM 3030	85.5	—	—	—	—	—	—	30	40	30	3.4							36 700	60 700	12 000	IRT 2530-1
32	TA 3220 Z	57.5	TAM 3220	63.5	—	—	—	—	—	—	32	42	20	3.4							25 400	38 600	11 000	IRT 2820
	TA 3230 Z	86	TAM 3230	97.5	—	—	—	—	—	—	32	42	30	3.4	32.000	31.984	42.014	41.989	—	—	39 500	68 400	11 000	IRT 2830
	—	—	—	—	—	—	—	—	YT 3220	71.5	32	42	20	—							39 900	70 100	4 500	IRT 2820
35	—	—	—	—	TLA 3512 Z	27	TLAM 3512	34.5	—	—	35	42	12	2.8							11 600	20 000	10 000	IRT 3012
	—	—	—	—	TLA 3516 Z	35	TLAM 3516	42.5	—	—	35	42	16	2.8	35.000	34.984	—	—	41.992	41.967	15 700	29 600	10 000	—
	—	—	—	—	TLA 3520 Z	43.5	TLAM 3520	51	—	—	35	42	20	2.8							20 700	42 300	10 000	IRT 3020
	TA 3512 Z	38.5	TAM 3512	46	—	—	—	—	—	—	35	45	12	3.4							14 800	19 900	10 000	IRT 3012
	TA 3515 Z	48	TAM 3515	56	—	—	—	—	—	—	35	45	15	3.4							18 500	26 500	10 000	IRT 3015
	TA 3520 Z	62.5	TAM 3520	70	—	—	—	—	—	—	35	45	20	3.4	35.000	34.984	45.014	44.989	—	—	27 000	43 100	10 000	IRT 3020
	TA 3525 Z	78	TAM 3525	85.5	—	—	—	—	—	—	35	45	25	3.4							34 800	59 700	10 000	IRT 3025
	TA 3530 Z	97	TAM 3530	105	—	—	—	—	—	—	35	45	30	3.4							40 600	72 600	10 000	IRT 3030

Note(1) Allowable rotational speed applies to oil lubrication. For grease lubrication, a maximum of 60% of this value is allowable.

Remarks 1. "W" in the identification number indicates that rolling elements are arranged in double rows.

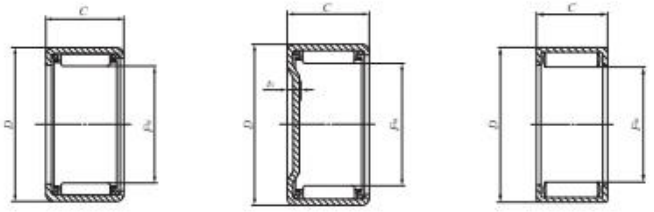
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1N=0.102kgf=0.2248lbs.
1mm=0.03937inch

SORUPACHAI

SHELL TYPE NEEDLE ROLLER BEARINGS





TA···Z TLA···Z TAM TLAM YT

Shaft dia. 37 — 45mm

Shaft dia. mm	Identification number: Standard	Mass (Ref.) g	Closed end	Mass (Ref.) g	Standard	Mass (Ref.) g	Closed end	Mass (Ref.) g	Grease retained	Mass (Ref.) g	Boundary dimensions mm F_w	D	C	f_1 Max.	Standard mounting dimensions mm: Shaft dia. h6 Max.	Shaft dia. h6 Min.	Housing bore dia. J7 Max.	Housing bore dia. J7 Min.	Housing bore dia. N7 Max.	Housing bore dia. N7 Min.	Basic dynamic load rating C N	Basic static load rating C_0 N	Allowable rotational speed(1) min⁻¹	Assembled inner ring
37	TA 3720 Z	64.5	TAM 3720	73	—	—	—	—	—	—	37	47	20	3.4							27 800	45 400	9 500	IRT 3220
	TA 3730 Z	101	TAM 3730	110	—	—	—	—	—	—	37	47	30	3.4	37.000	36.984	47.014	46.989	—	—	41 800	76 700	9 500	IRT 3230
	—	—	—	—	—	—	—	—	YT 3720	81	37	47	20	—							43 300	81 300	4 000	IRT 3220
38	TA 3815 Z	51	TAM 3815	60	—	—	—	—	—	—	38	48	15	3.4							19 000	28 000	9 000	IRT 3215-1
	TA 3820 Z	65.5	TAM 3820	74.5	—	—	—	—	—	—	38	48	20	3.4							27 700	45 600	9 000	IRT 3220-1
	TA 3825 Z	82.5	TAM 3825	96	—	—	—	—	—	—	38	48	25	3.4	38.000	37.984	48.014	47.989	—	—	35 600	63 100	9 000	IRT 3225-1
	TA 3830 Z	104	TAM 3830	114	—	—	—	—	—	—	38	48	30	3.4							43 100	80 600	9 000	IRT 3230-1
	TAW 3845 Z	149	TAMW 3845	159	—	—	—	—	—	—	38	48	45	3.4							55 700	112 000	9 000	IRT 3245-1
40	—	—	—	—	TLA 4012 Z	30	TLAM 4012	40	—	—	40	47	12	2.8							12 400	22 800	8 500	—
	—	—	—	—	TLA 4016 Z	39	TLAM 4016	49	—	—	40	47	16	2.8	40.000	39.984	—	—	46.992	46.967	16 700	33 700	8 500	—
	—	—	—	—	TLA 4020 Z	49	TLAM 4020	58.5	—	—	40	47	20	2.8							22 100	48 200	8 500	IRT 3520
	TA 4015 Z	54	TAM 4015	63.5	—	—	—	—	—	—	40	50	15	3.4							19 500	29 400	8 500	IRT 3515
	TA 4020 Z	69.5	TAM 4020	79	—	—	—	—	—	—	40	50	20	3.4							28 400	47 800	8 500	IRT 3520
	TA 4025 Z	86.5	TAM 4025	102	—	—	—	—	—	—	40	50	25	3.4							36 600	66 200	8 500	IRT 3525
	TA 4030 Z	110	TAM 4030	120	—	—	—	—	—	—	40	50	30	3.4	40.000	39.984	50.014	49.989	—	—	44 300	84 600	8 500	IRT 3530
	TA 4040 Z	144	TAM 4040	154	—	—	—	—	—	—	40	50	40	3.4							56 700	116 000	8 500	IRT 3540
	—	—	—	—	—	—	—	—	YT 4015	63.5	40	50	15	—							33 400	59 800	4 000	IRT 3515
	—	—	—	—	—	—	—	—	YT 4025	109	40	50	25	—							55 300	114 000	4 000	IRT 3525
45	—	—	—	—	TLA 4516 Z	43.5	TLAM 4516	56	—	—	45	52	16	2.8	45.000	44.984	—	—	51.991	51.961	17 800	37 800	7 500	—
	—	—	—	—	TLA 4520 Z	54.5	TLAM 4520	67	—	—	45	52	20	2.8							23 400	54 000	7 500	IRT 4020
	TA 4520 Z	77	TAM 4520	90	—	—	—	—	—	—	45	55	20	3.4							30 600	54 600	7 500	IRT 4020
	TA 4525 Z	102	TAM 4525	115	—	—	—	—	—	—	45	55	25	3.4							39 400	75 600	7 500	IRT 4025
	TA 4530 Z	122	TAM 4530	135	—	—	—	—	—	—	45	55	30	3.4	45.000	44.984	55.018	54.988	—	—	47 700	96 600	7 500	IRT 4030
	TA 4540 Z	161	TAM 4540	174	—	—	—	—	—	—	45	55	40	3.4							61 300	133 000	7 500	IRT 4040
	—	—	—	—	—	—	—	—	YT 4520	96	45	55	20	—							47 800	98 200	3 500	IRT 4020
	—	—	—	—	—	—	—	—	YT 4525	122	45	55	25	—							59 100	129 000	3 500	IRT 4025

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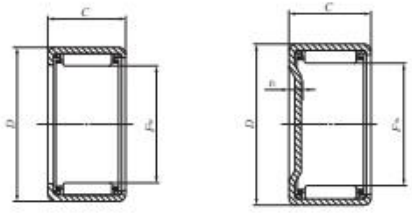
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1N=0.102kgf=0.2248lbs.
1mm=0.03937inch

SORUPACHAI

SHELL TYPE NEEDLE ROLLER BEARINGS





TA···Z TLA···Z

TAM TLAM

Shaft dia. 50 — 62mm

Shaft dia. mm	Identification number: Standard	Mass (Ref.) g	Closed end	Mass (Ref.) g	Standard	Mass (Ref.) g	Closed end	Mass (Ref.) g	Grease retained	Mass (Ref.) g	Boundary dimensions mm: F_w	D	C	l_1 Max.	Standard mounting dimensions mm: Shaft dia. h6 Max.	Shaft dia. h6 Min.	Housing bore dia. J7 Max.	Housing bore dia. J7 Min.	Housing bore dia. N7 Max.	Housing bore dia. N7 Min.	Basic dynamic load rating C N	Basic static load rating C_0 N	Allowable rotational speed(1) min⁻¹	Assembled inner ring
50	—	—	—	—	TLA 5020 Z	69	TLAM 5020	84.5	—	—	50	58	20	2.8	50.000	49.984	—	—	57.991	57.961	28 800	64 100	6 500	IRT 4520
	—	—	—	—	TLA 5025 Z	86	TLAM 5025	107	—	—	50	58	25	2.8							36 900	88 400	6 500	IRT 4525
	TA 5012 Z	62.5	TAM 5012	78	—	—	—	—	—	—	50	62	12	3.4							17 700	24 000	6 500	IRT 4512
	TA 5015 Z	78	TAM 5015	98.5	—	—	—	—	—	—	50	62	15	3.4							25 800	39 000	6 500	IRT 4515
	TA 5020 Z	107	TAM 5020	123	—	—	—	—	—	—	50	62	20	3.4							38 000	64 000	6 500	IRT 4520
	TA 5025 Z	134	TAM 5025	150	—	—	—	—	—	—	50	62	25	3.4	50.000	49.984	62.018	61.988	—	—	49 100	89 000	6 500	IRT 4525
	TA 5030 Z	161	TAM 5030	178	—	—	—	—	—	—	50	62	30	3.4							59 500	114 000	6 500	IRT 4530
	TA 5040 Z	210	TAM 5040	230	—	—	—	—	—	—	50	62	40	3.4							76 500	157 000	6 500	IRT 4540
	TAW 5045 Z	230	TAMW 5045	245	—	—	—	—	—	—	50	62	45	3.4							76 700	158 000	6 500	IRT 4545
55	—	—	—	—	TLA 5520 Z	75	TLAM 5520	98.5	—	—	55	63	20	2.8	55.000	54.981	—	—	62.991	62.961	29 800	69 400	5 500	IRT 5020-1
	—	—	—	—	TLA 5525 Z	98.5	TLAM 5525	118	—	—	55	63	25	2.8							38 300	95 700	5 500	IRT 5025-1
	TA 5520 Z	116	TAM 5520	136	—	—	—	—	—	—	55	67	20	3.4							39 600	69 700	5 500	IRT 5020-1
	TA 5525 Z	145	TAM 5525	165	—	—	—	—	—	—	55	67	25	3.4							51 200	97 000	5 500	IRT 5025-1
	TA 5530 Z	175	TAM 5530	195	—	—	—	—	—	—	55	67	30	3.4							62 000	124 000	5 500	IRT 5030-1
	TA 5540 Z	230	TAM 5540	250	—	—	—	—	—	—	55	67	40	3.4	55.000	54.981	67.018	66.988	—	—	80 000	172 000	5 500	IRT 5040-1
	TAW 5545 Z	250	TAMW 5545	270	—	—	—	—	—	—	55	67	45	3.4							79 900	172 000	5 500	IRT 5045-1
	TAW 5550 Z	280	TAMW 5550	300	—	—	—	—	—	—	55	67	50	3.4							91 500	205 000	5 500	IRT 5050-1
60	TA 6025 Z	158	TAM 6025	182	—	—	—	—	—	—	60	72	25	3.4							54 700	108 000	5 000	IRT 5025
	TA 6030 Z	191	TAM 6030	215	—	—	—	—	—	—	60	72	30	3.4							66 300	139 000	5 000	IRT 5030
	TA 6040 Z	250	TAM 6040	275	—	—	—	—	—	—	60	72	40	3.4	60.000	59.981	72.018	71.988	—	—	85 700	193 000	5 000	IRT 5040
	TAW 6045 Z	270	TAMW 6045	295	—	—	—	—	—	—	60	72	45	3.4							85 400	193 000	5 000	IRT 5045
	TAW 6050 Z	305	TAMW 6050	330	—	—	—	—	—	—	60	72	50	3.4							97 800	229 000	5 000	IRT 5050
62	TA 6212 Z	78	TAM 6212	107	—	—	—	—	—	—	62	74	12	3.4	62.000	61.981	74.018	73.988	—	—	20 100	30 300	4 500	IRT 5212

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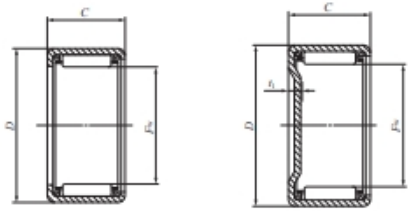
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SORUPACHAI

IKO

SHELL TYPE NEEDLE ROLLER BEARINGS





TA···Z TAM

Shaft dia. 65 — 70mm

Shaft dia. mm	Identification number: Standard	Mass (Ref.) g	Closed end	Mass (Ref.) g	Standard	Mass (Ref.) g	Closed end	Mass (Ref.) g	Grease retained	Mass (Ref.) g	Boundary dimensions mm F_w	D	C	t_1 Max.	Standard mounting dimensions mm: Shaft dia. h6 Max.	Shaft dia. h6 Min.	Housing bore dia. J7 Max.	Housing bore dia. J7 Min.	Housing bore dia. N7 Max.	Housing bore dia. N7 Min.	Basic dynamic load rating C N	Basic static load rating C_0 N	Allowable rotational speed(1) min⁻¹	Assembled inner ring
65	TA 6525 Z	169	TAM 6525	197	—	—	—	—	—	—	65	77	25	3.4	65.000	64.981	77.018	76.988	—	—	56 500	116 000	4 000	IRT 5525
	TA 6530 Z	205	TAM 6530	230	—	—	—	—	—	—	65	77	30	3.4							68 500	149 000	4 000	IRT 5530
	TAW 6545 Z	290	TAMW 6545	315	—	—	—	—	—	—	65	77	45	3.4							88 300	207 000	4 000	IRT 5545
	TAW 6550 Z	330	TAMW 6550	355	—	—	—	—	—	—	65	77	50	3.4							101 000	246 000	4 000	IRT 5550
70	TA 7025 Z	181	TAM 7025	215	—	—	—	—	—	—	70	82	25	3.4	70.000	69.981	82.022	81.987	—	—	58 500	124 000	3 500	IRT 6025
	TA 7030 Z	220	TAM 7030	250	—	—	—	—	—	—	70	82	30	3.4							70 900	159 000	3 500	IRT 6030
	TA 7040 Z	290	TAM 7040	320	—	—	—	—	—	—	70	82	40	3.4							92 000	222 000	3 500	IRT 6040
	TAW 7050 Z	350	TAMW 7050	380	—	—	—	—	—	—	70	82	50	3.4							105 000	262 000	3 500	IRT 6050

Note(1) Allowable rotational speed applies to oil lubrication. For grease lubrication, a maximum of 60% of this value is allowable.

Remarks 1. "W" in the identification number indicates that rolling elements are arranged in double rows.

2. Shell Type Grease Retained Full Complement Needle Roller Bearings are provided with prepacked grease. Standard type and closed end type bearings are not provided with prepacked grease, so perform proper lubrication when using these types of bearings.

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