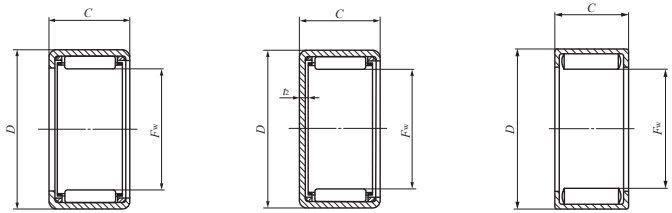
SHELL TYPE NEEDLE ROLLER BEARINGS





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	Basic static load rating	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					Shaft dia. h6		Housing bore dia. J7		Housing bore dia. N7					
											F_w	D	C	t_2 Max.	Max.	Min.	Max.	Min.	Max.	Min.	C N	C_0 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 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