

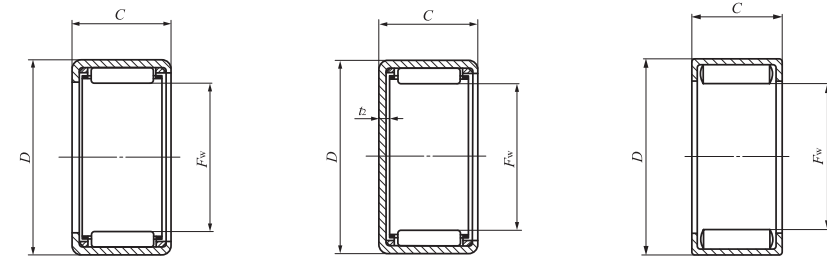
SHELL TYPE NEEDLE ROLLER BEARINGS



Shaft dia. 4 – 10mm

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
4	—	—	—	—	TLA 48 Z	1.54	TLAM 48	1.67	—	—
	—	—	—	—	—	—	—	—	YTL 48	1.73
5	—	—	—	—	TLA 59 Z	1.9	TLAM 59	2	—	—
	—	—	—	—	—	—	—	—	YTL 59	2.4
6	—	—	—	—	TLA 69 Z	2.2	TLAM 69	2.3	—	—
7	—	—	—	—	TLA 79 Z	2.5	TLAM 79	2.7	—	—
8	—	—	—	—	TLA 810 Z	3.1	TLAM 810	3.3	—	—
	TA 810 Z	6.7	TAM 810	7.1	—	—	—	—	—	—
	TA 815 Z	9.7	TAM 815	10.1	—	—	—	—	—	—
	TA 820 Z	12.9	TAM 820	13.3	—	—	—	—	—	—
	—	—	—	—	—	—	—	—	YT 810	7.7
9	—	—	—	—	TLA 910 Z	3.4	TLAM 910	3.6	—	—
	—	—	—	—	TLA 912 Z	4	TLAM 912	4.3	—	—
	TA 912 Z	8.7	TAM 912	9.2	—	—	—	—	—	—
	TA 916 Z	11.4	TAM 916	11.9	—	—	—	—	—	—
10	—	—	—	—	TLA 1010 Z	3.7	TLAM 1010	4	—	—
	—	—	—	—	TLA 1012 Z	4.4	TLAM 1012	4.8	—	—
	—	—	—	—	TLA 1015 Z	5.5	TLAM 1015	5.9	—	—
	TA 1010 Z	7.9	TAM 1010	8.5	—	—	—	—	—	—
	TA 1012 Z	9.3	TAM 1012	10	—	—	—	—	—	—
	TA 1015 Z	11.5	TAM 1015	12.2	—	—	—	—	—	—
	TA 1020 Z	15.4	TAM 1020	16	—	—	—	—	—	—
	—	—	—	—	—	—	—	—	—	—

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.



TA...Z TLA...Z

TAM TLAM

YT YTL

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
F _w	D	C	t ₂ Max.	Shaft dia. h6		Housing bore dia. J7		N7					
				Max.	Min.	Max.	Min.	Max.	Min.				
4	8	8	1	4.000	3.992	—	—	7.996	7.981	1 350	1 010	75 000	—
4	8	8	—	—	—	—	—	—	—	3 010	2 900	40 000	—
5	9	9	1	5.000	4.992	—	—	8.996	8.981	1 880	1 600	65 000	—
5	9	9	—	—	—	—	—	—	—	4 320	4 750	30 000	—
6	10	9	1	6.000	5.992	—	—	9.996	9.981	2 100	1 900	55 000	—
7	11	9	1	7.000	6.991	—	—	10.995	10.977	2 490	2 450	50 000	—
8	12	10	1	8.000	7.991	—	—	11.995	11.977	3 320	3 670	45 000	—
8	15	10	1.3	—	—	—	—	—	—	3 470	2 880	45 000	—
8	15	15	1.3	8.000	7.991	15.010	14.992	—	—	5 780	5 570	45 000	—
8	15	20	1.3	—	—	—	—	—	—	8 340	8 920	45 000	—
8	15	10	—	—	—	—	—	—	—	7 530	7 950	19 000	—
9	13	10	1	9.000	8.991	—	—	12.995	12.977	3 500	4 040	45 000	—
9	13	12	1	—	—	—	—	—	—	4 460	5 510	45 000	—
9	16	12	1.3	9.000	8.991	16.010	15.992	—	—	5 140	4 880	45 000	—
9	16	16	1.3	—	—	—	—	—	—	6 960	7 210	45 000	—
9	16	12	—	—	—	—	—	—	—	9 690	11 200	17 000	—
10	14	10	1	10.000	9.991	—	—	13.995	13.977	3 870	4 740	40 000	IRT 710
10	14	12	1	—	—	—	—	—	—	4 920	6 460	40 000	IRT 712
10	14	15	1	—	—	—	—	—	—	6 390	9 040	40 000	IRT 715
10	17	10	1.3	10.000	9.991	17.010	16.992	—	—	4 150	3 780	40 000	IRT 710
10	17	12	1.3	—	—	—	—	—	—	5 590	5 540	40 000	IRT 712
10	17	15	1.3	—	—	—	—	—	—	6 920	7 300	40 000	IRT 715
10	17	20	1.3	—	—	—	—	—	—	9 990	11 700	40 000	—