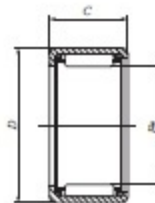


## SHELL TYPE NEEDLE ROLLER BEARINGS



TA...Z TLA...Z

Shaft dia. 16 – 19mm

Shaft dia. mm	Identification number										Boundary dimensions mm				Standard mounting dimensions mm				Basic dynamic load rating C N	Basic static load rating C <sub>0</sub> N	Allowable rotational speed <sup>(1)</sup> rpm	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 <sub>w</sub>	D	C	r <sub>2</sub> Max.	Shaft dia. h6 Max.	Min.	Housing bore dia. J7 Max.	Min.					N7 Max.	Min.
16	—	—	—	—	TLA 1612 Z	10.9	TLAM 1612	12.2	—	—	16	22	12	1.3	16.000	15.989	—	—	21.993	21.972	7 670	10 200	25 000	IRT 1212-1
	—	—	—	—	TLA 1616 Z	14.8	TLAM 1616	16.1	—	—	16	22	16	1.3							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
16	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
	—	—	—	—	TLA 1712 Z	11.5	TLAM 1712	13	—	—	17	23	12	1.3							17.000	16.989	—	—
17	TA 1715 Z	17.6	TAM 1715	19.5	—	—	—	—	—	—	17	24	15	1.3	17.000	16.989	24.012	23.991	—	—	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							17 900	28 100	25 000	IRT 1225-2
17	—	—	—	—	—	—	—	—	—	—	17	24	15	—	17.000	16.989	24.012	23.991	—	—	16 600	26 000	9 000	IRT 1215-2
	—	—	—	—	—	—	—	—	—	—	17	24	25	—							27 200	49 000	9 000	IRT 1225-2
	—	—	—	—	—	—	—	—	—	—	17	24	25	—							—	—	—	—
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							18.000	17.989	25.012	24.991
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							
18	TA 1819 Z	23.5	TAM 1819	25.5	—	—	—	—	—	—	18	25	19	1.3	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

Note<sup>(1)</sup> 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.