

SHELL TYPE NEEDLE ROLLER BEARINGS



TA...Z TLA...Z

Shaft dia. 50 – 62mm

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⁾ 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 _w	D	C	r ₁ Max.	Shaft dia.		Housing bore dia.																																																									
															h6 Max.	h6 Min.	J7 Max.	J7 Min.					N7 Max.	N7 Min.																																																		
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											50.000	49.984	62.018	61.988	—	—	49 100	89 000	6 500	IRT 4525																																								
	TA 5012 Z	62.5	TAM 5012	78	—	—	—	—	—	—	50	62	12	3.4	50.000	49.984	62.018	61.988	—	—	59 500	114 000	6 500	IRT 4512																																																		
	TA 5015 Z	78	TAM 5015	98.5	—	—	—	—	—	—	50	62	15	3.4																					50.000	49.984	62.018	61.988	—	—	76 500	157 000	6 500	IRT 4515																														
	TA 5020 Z	107	TAM 5020	123	—	—	—	—	—	—	50	62	20	3.4																															50.000	49.984	62.018	61.988	—	—	76 500	157 000	6 500	IRT 4520																				
	TA 5025 Z	134	TAM 5025	150	—	—	—	—	—	—	50	62	25	3.4																																									50.000	49.984	62.018	61.988	—	—	76 500	157 000	6 500	IRT 4525										
	TA 5030 Z	161	TAM 5030	178	—	—	—	—	—	—	50	62	30	3.4																																																			50.000	49.984	62.018	61.988	—	—	76 500	157 000	6 500	IRT 4530
	TA 5040 Z	210	TAM 5040	230	—	—	—	—	—	—	50	62	40	3.4																																																												
	TAW 5045 Z	230	TAMW 5045	245	—	—	—	—	—	—	50	62	45	3.4	50.000	49.984	62.018	61.988	—	—	76 700	158 000	6 500	IRT 4545																																																		
	—	—	—	—	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	55.000	54.981	67.018	66.988	—	—	39 600	69 700	5 500	IRT 5025-1																																																			
TA 5520 Z	116	TAM 5520	136	—	—	—	—	—	—	55	67	20	3.4											55.000	54.981	67.018	66.988	—	—	51 200	97 000	5 500	IRT 5020-1																																									
TA 5525 Z	145	TAM 5525	165	—	—	—	—	—	—	55	67	25	3.4																					55.000	54.981	67.018	66.988	—	—	62 000	124 000	5 500	IRT 5025-1																															
TA 5530 Z	175	TAM 5530	195	—	—	—	—	—	—	55	67	30	3.4																															55.000	54.981	67.018	66.988	—	—	80 000	172 000	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	—	—	79 900	172 000	5 500	IRT 5040-1											
TAW 5545 Z	250	TAMW 5545	270	—	—	—	—	—	—	55	67	45	3.4																																																			55.000	54.981	67.018	66.988	—	—	91 500	205 000	5 500	IRT 5045-1	
TAW 5550 Z	280	TAMW 5550	300	—	—	—	—	—	—	55	67	50	3.4																																																													55.000
TA 6025 Z	158	TAM 6025	182	—	—	—	—	—	—	60	72	25	3.4											60.000	59.981	72.018	71.988	—	—	54 700	108 000	5 000	IRT 5025																																									
TA 6030 Z	191	TAM 6030	215	—	—	—	—	—	—	60	72	30	3.4	60.000	59.981	72.018	71.988	—	—	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																															60.000	59.981	72.018	71.988	—	—	85 400	193 000	5 000	IRT 5045																					
TAW 6050 Z	305	TAMW 6050	330	—	—	—	—	—	—	60	72	50	3.4																																									60.000	59.981	72.018	71.988	—	—	97 800	229 000	5 000	IRT 5050											
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																																																			

Note⁽¹⁾ Allowable rotational speed applies to oil lubrication. For grease lubrication, a maximum of 80% 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.