JAPANESE BEARINGS
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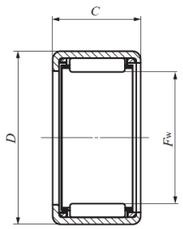
Needle Roller Bearings
Shell Type - Metric

TA Heavy Duty Series



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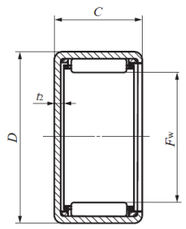

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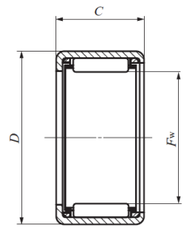
TA Heavy Duty Series



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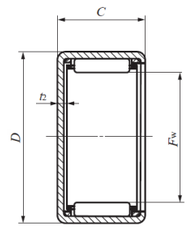

TAM TLAM

Shaft dia. mm	Identification number				Boundary dimensions (mm)					Standard mounting dimensions (mm)				Basic dynamic load rating C	Basic static load rating C0	Allowable rotational speed (1)	Assembled inner ring
										Shaft dia. h6		Housing bore dia J7					
												J7					
	Standard	Mass g	Closed end	Mass g	Fw	D	C	t2 Max.		Max	Min.	Max.	Min.	N	N	rpm	
8	TA 810 Z	6.7	TAM 810	7.1	8	15	10	1.3		8	7.991	15.01	14.992	3 470	2 880	45 000	-
	TA 815 Z	9.7	TAM 815	10.1	8	15	15	1.3		8	7.991	15.01	14.992	5 780	5 570	45 000	-
9	TA 912 Z	8.7	TAM 912	9.2	9	16	12	1.3		9	8.991	16.01	15.992	5 140	4 880	45 000	-
	TA 916 Z	11.4	TAM 916	11.9	9	16	16	1.3		9	8.991	16.01	15.992	6 960	7 210	45 000	-
10	TA 1010 Z	7.9	TAM 1010	8.5	10	17	10	1.3		10	9.991	17.01	16.992	4 150	3 780	40 000	IRT 710
	TA 1012 Z	9.3	TAM 1012	10	10	17	12	1.3		10	9.991	17.01	16.992	5 590	5 540	40 000	IRT 712
	TA 1015 Z	11.5	TAM 1015	12.2	10	17	15	1.3		10	9.991	17.01	16.992	6 920	7 300	40 000	IRT 715
	TA 1020 Z	15.4	TAM 1020	16	10	17	20	1.3		10	9.991	17.01	16.992	9 990	11 700	40 000	-
12	TA 1212 Z	10.5	TAM 1212	11.5	12	19	12	1.3		12	11.989	19.012	18.991	6 000	6 310	35 000	IRT 812
	TA 1215 Z	13.1	TAM 1215	14	12	19	15	1.3		12	11.989	19.012	18.991	7 440	8 320	35 000	IRT 815
	TA 1220 Z	17.3	TAM 1220	18.3	12	19	20	1.3		12	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		12	11.989	19.012	18.991	13 800	18 300	35 000	-
14	TA 1416 Z	18.4	TAM 1416	19.6	14	22	16	1.3		14	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		14	13.989	22.012	21.991	13 900	17 200	30 000	IRT 1020-2
15	TA 1510 Z	10.8	TAM 1510	12.3	15	22	10	1.3		15	14.989	22.012	21.991	5 290	5 680	25 000	IRT 1010-1
	TA 1512 Z	12.9	TAM 1512	14.3	15	22	12	1.3		15	14.989	22.012	21.991	7 120	8 310	25 000	IRT 1012-1
	TA 1515 Z	15.9	TAM 1515	17.3	15	22	15	1.3		15	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		15	14.989	22.012	21.991	12 700	17 600	25 000	IRT 1020-1
	TA 1525 Z	25	TAM 1525	26.5	15	22	25	1.3		15	14.989	22.012	21.991	16 300	24 200	25 000	IRT 1025-1
16	TA 1616 Z	20	TAM 1616	22	16	24	16	1.3		16	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		16	15.989	24.012	23.991	14 700	19 100	25 000	IRT 1220-1
17	TA 1715 Z	17.6	TAM 1715	19.5	17	24	15	1.3		17	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		17	16.989	24.012	23.991	13 900	20 400	25 000	IRT 1220-2
	TA 1725 Z	29	TAM 1725	31	17	24	25	1.3		17	16.989	24.012	23.991	17 900	28 100	25 000	IRT 1225-2
18	TA 1813 Z	16.4	TAM 1813	18.5	18	25	13	1.3		18	17.989	25.012	24.991	9 100	12 000	20 000	IRT 1513
	TA 1815 Z	18.5	TAM 1815	20.5	18	25	15	1.3		18	17.989	25.012	24.991	10 100	13 600	20 000	IRT 1515
	TA 1820 Z	24.5	TAM 1820	26.5	18	25	20	1.3		18	17.989	25.012	24.991	14 500	21 800	20 000	IRT 1520
	TA 1825 Z	30.5	TAM 1825	32.5	18	25	25	1.3		18	17.989	25.012	24.991	18 600	30 000	20 000	IRT 1525

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

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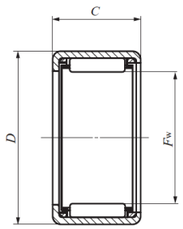
Shell Type - Metric

TA Heavy Duty Series



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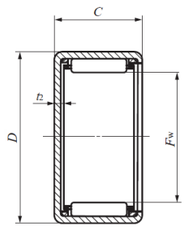

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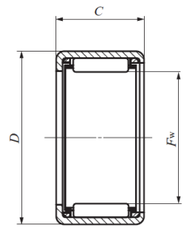
TA Heavy Duty Series



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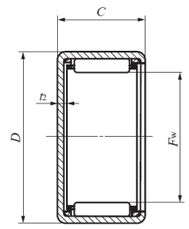

TAM TLAM

Shaft dia. mm	Identification number				Boundary dimensions (mm)				Standard mounting dimensions (mm)				Basic dynamic load rating C	Basic static load rating C0	Allowable rotational speed (1)	Assembled inner ring
									Shaft dia. h6		Housing bore dia J7					
											J7					
	Standard	Mass g	Closed end	Mass g	Fw	D	C	t2 Max.	Max	Min.	Max.	Min.	N	N	rpm	
20	TA 2015 Z	20	TAM 2015	22.5	20	27	15	1.3	20	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	20	19.987	27.012	26.991	15 000	23 400	20 000	IRT 1520-2
	TA 2025 Z	33	TAM 2025	35.5	20	27	25	1.3	20	19.987	27.012	26.991	19 200	32 200	20 000	IRT 1525-2
	TA 2030 Z	39.5	TAM 2030	42	20	27	30	1.3	20	19.987	27.012	26.991	23 100	41 000	20 000	IRT 1530-2
	TA 202820 Z	30	TAM 202820	32.5	20	28	20	1.3	20	19.987	27.012	26.991	16 900	24 300	20 000	IRT 1520-2
21	TA 2120 Z	31.5	TAM 2120	34.5	21	29	16	1.3	21	20.987	29.012	28.991	17 600	25 900	19 000	IRT 1720-1
22	TA 2210 Z	15	TAM 2210	18.1	22	29	10	1.3	22	21.987	29.012	28.991	6 650	8 500	18 000	IRT 1710-2
	TA 2215 Z	21.5	TAM 2215	24.5	22	29	15	1.3	22	21.987	29.012	28.991	11 100	16 400	18 000	IRT 1715-2
	TA 2220 Z	29	TAM 2220	32	22	29	20	1.3	22	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	22	21.987	29.012	28.991	19 700	34 300	18 000	IRT 1725-2
	TA 2230 Z	42.5	TAM 2230	45.5	22	29	30	1.3	22	21.987	29.012	28.991	23 800	43 700	18 000	IRT 1730-2
	TA 223016 Z	26	TAM 223016	29	22	30	16	1.3	22	21.987	30.012	29.991	13 200	18 200	18 000	IRT 1716-2
	TA 223020 Z	32.5	TAM 223020	35.5	22	30	20	1.3	22	21.987	30.012	29.991	17 500	26 100	18 000	IRT 1720-2
24	TA 2420 Z	31	TAM 2420	35	24	31	20	3.4	24	23.987	31.014	30.989	17 000	29 200	16 000	IRT 2020
	TA 2428 Z	43.5	TAM 2428	47	24	31	28	3.4	24	23.987	31.014	30.989	24 500	46 700	16 000	IRT 2028
	TA 243216 Z	28	TAM 243216	32	24	32	16	3.4	24	23.987	32.014	31.989	14 200	20 500	16 000	IRT 2016
25	TA 2510 Z	19.1	TAM 2510	23	25	33	10	3.4	25	24.987	33.014	32.989	7 990	9 900	15 000	IRT 2010-1
	TA 2515 Z	28.5	TAM 2515	32.5	25	33	15	3.4	25	24.987	33.014	32.989	13 400	19 300	15 000	IRT 2015-1
	TA 2520 Z	36.5	TAM 2520	40.5	25	33	20	3.4	25	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	25	24.987	33.014	32.989	24 100	40 800	15 000	IRT 2025-1
	TA 2530 Z	54.5	TAM 2530	58.5	25	33	30	3.4	25	24.987	33.014	32.989	29 100	52 000	15 000	IRT 2030-1
26	TA 2616 Z	30.5	TAM 2616	34.5	26	34	16	3.4	26	25.987	34.014	33.989	15 200	22 900	15 000	IRT 2216
	TA 2620 Z	38	TAM 2620	42.5	26	34	20	3.4	26	25.987	34.014	33.989	20 100	32 800	15 000	IRT 2220
28	TA 2820 Z	45	TAM 2820	50	28	37	20	3.4	28	27.987	37.014	36.989	21 200	32 300	13 000	IRT 2220-1
	TA 2830 Z	67.5	TAM 2830	72.5	28	37	30	3.4	28	27.987	37.014	36.989	33 000	56 900	13 000	IRT 2230-1
29	TA 2930 Z	70	TAM 2930	75.5	29	38	30	3.4	29	28.987	38.014	37.989	34 200	60 300	13 000	IRT 2530
30	TA 3020 Z	54.5	TAM 3020	60	30	40	20	3.4	30	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	30	29.987	40.014	39.989	31 600	50 300	12 000	IRT 2525-1
	TA 3030 Z	80	TAM 3030	85.5	30	40	30	3.4	30	29.987	40.014	39.989	36 700	60 700	12 000	IRT 2530-1
32	TA 3220 Z	57.5	TAM 3220	63.5	32	42	20	3.4	32	31.984	42.014	41.989	25 400	38 600	11 000	IRT 2820
	TA 3230 Z	86	TAM 3230	97.5	32	42	30	3.4	32	31.984	42.014	41.989	39 500	68 400	11 000	IRT 2830

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

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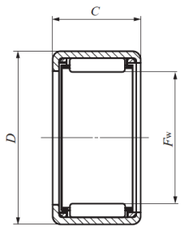

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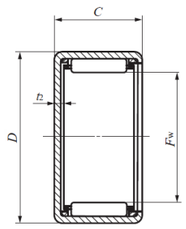

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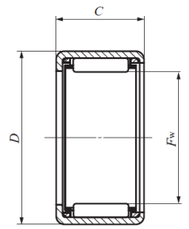

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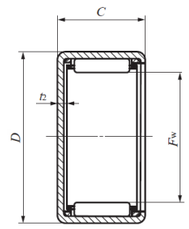

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Shaft dia. mm	Identification number				Boundary dimensions (mm)					Standard mounting dimensions (mm)				Basic dynamic load rating C	Basic static load rating C0	Allowable rotational speed (1)	Assembled inner ring
										Shaft dia. h6		Housing bore dia J7					
												J7					
	Standard	Mass g	Closed end	Mass g	Fw	D	C	t2 Max.		Max	Min.	Max.	Min.	N	N	rpm	
35	TA 3512 Z	38.5	TAM 3512	46	35	45	12	3.4		35	34.984	45.014	44.989	14 800	19 900	10 000	IRT 3012
	TA 3515 Z	48	TAM 3515	56	35	45	15	3.4		35	34.984	45.014	44.989	18 500	26 500	10 000	IRT 3015
	TA 3520 Z	62.5	TAM 3520	70	35	45	20	3.4		35	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		35	34.984	45.014	44.989	34 800	59 700	10 000	IRT 3025
	TA 3530 Z	97	TAM 3530	105	35	45	30	3.4		35	34.984	45.014	44.989	40 600	72 600	10 000	IRT 3030
37	TA 3720 Z	64.5	TAM 3720	73	37	47	20	3.4		37	36.984	47.014	46.989	27 800	45 400	9 500	IRT 3220
38	TA 3820 Z	65.5	TAM 3820	74.5	38	48	20	3.4		38	37.984	48.014	47.989	27 700	45 600	9 000	IRT 3220-1
	TA 3830 Z	104	TAM 3830	114	38	48	30	3.4		38	37.984	48.014	47.989	43 100	80 600	9 000	IRT 3230-1
40	TA 4015 Z	54	TAM 4015	63.5	40	50	15	3.4		40	39.984	50.014	49.989	19 500	29 400	8 500	IRT 3515
	TA 4020 Z	69.5	TAM 4020	79	40	50	20	3.4		40	39.984	50.014	49.989	28 400	47 800	8 500	IRT 3520
	TA 4025 Z	86.5	TAM 4025	102	40	50	25	3.4		40	39.984	50.014	49.989	36 600	66 200	8 500	IRT 3525
	TA 4030 Z	110	TAM 4030	120	40	50	30	3.4		40	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		40	39.984	50.014	49.989	56 700	116 000	8 500	IRT 3540
45	TA 4520 Z	77	TAM 4520	90	45	55	20	3.4		45	44.984	55.018	54.988	30 600	54 600	7 500	IRT 4020
	TA 4525 Z	102	TAM 4525	115	45	55	25	3.4		45	44.984	55.018	54.988	39 400	75 600	7 500	IRT 4025
	TA 4530 Z	122	TAM 4530	135	45	55	30	3.4		45	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		45	44.984	55.018	54.988	61 300	133 000	7 500	IRT 4040
50	TA 5020 Z	107	TAM 5020	123	50	62	20	3.4		50	49.984	62.018	61.988	38 000	64 000	6 500	IRT 4520
	TA 5025 Z	134	TAM 5025	150	50	62	25	3.4		50	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		50	49.984	62.018	61.988	59 500	114 000	6 500	IRT 4530
	TA 5040 Z	210	TAM 5040	230	50	62	40	3.4		50	49.984	62.018	61.988	76 500	157 000	6 500	IRT 4540
55	TA 5520 Z	116	TAM 5520	136	55	67	20	3.4		55	54.981	67.018	66.988	39 600	69 700	5 500	IRT 5020-1
	TA 5525 Z	145	TAM 5525	165	55	67	25	3.4		55	54.981	67.018	66.988	51 200	97 000	5 500	IRT 5025-1
	TA 5530 Z	175	TAM 5530	195	55	67	30	3.4		55	54.981	67.018	66.988	62 000	124 000	5 500	IRT 5030-1

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