YRT Roatry Table Bearing

Installation Instructions

1. Bearing installation diagram

1.1 Design & Installation Structure with the requirements shown in Figure 1

Retaining screws secure the bearing components during transport. For installing the bearing easier, the screws should be loosened before fitting, and secured again or replaced by positioning screws after fitting.

1.2 The L-section ring can be fitted with unsupported or supported ring.

a) Without supported ring, the bearing type is YRT.

b) With supported ring, the bearing type is YRT…VSP,And the whole surface of L-section should be supported.

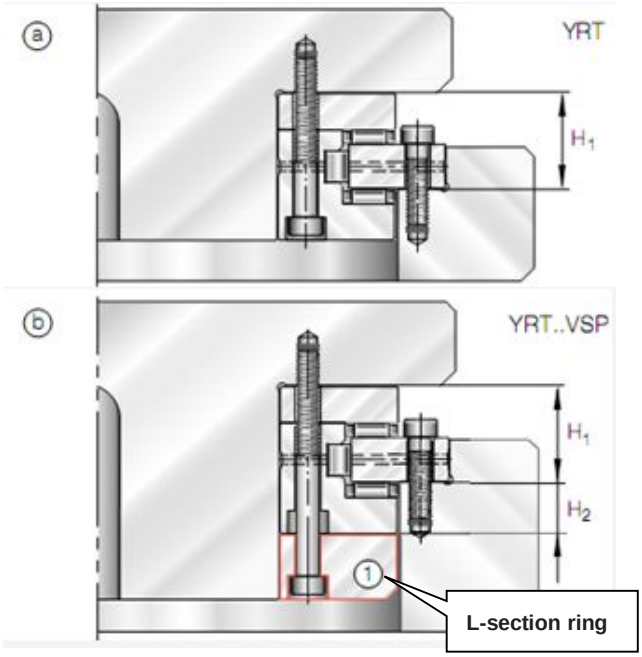


Figure 1

1.3 Mounting forces must only be applied to the bearing ring to be fitted, never through the rolling elements.Tighten the fixing screws in crosswise using a torque wrench (shown in figure 2).

1.4 Don't separate or interchanged bearing components during fitting and dismantling.

1.5 Starting friction torque can be 3 to 3.5 times as high as the value of friction torque in the dimension tables.

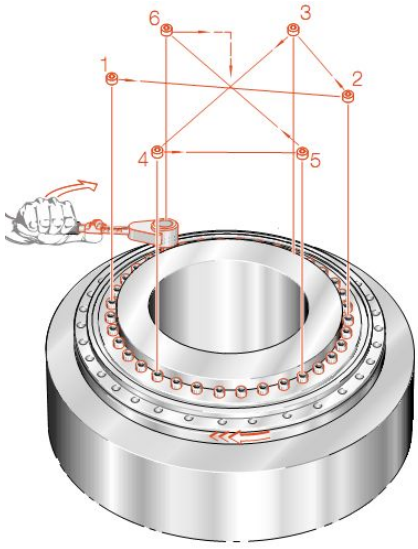


Figure 2

1.6 Wrench tightening torque value according to the following table:

Model Number	YRT50	YRT80	YRT100	YRT120	YRT150	YRT180	YRT200	YRT260	YRT325	YRT395	YRT460	YRT580	YRT650	YRT850	YRT950	YRT1030
Screw tightening torque（Nm）	8.5	8.5	8.5	14	14	14	14	34	34	34	34	68	116	284	284	284

2. Bearing Lubrication Maintenance

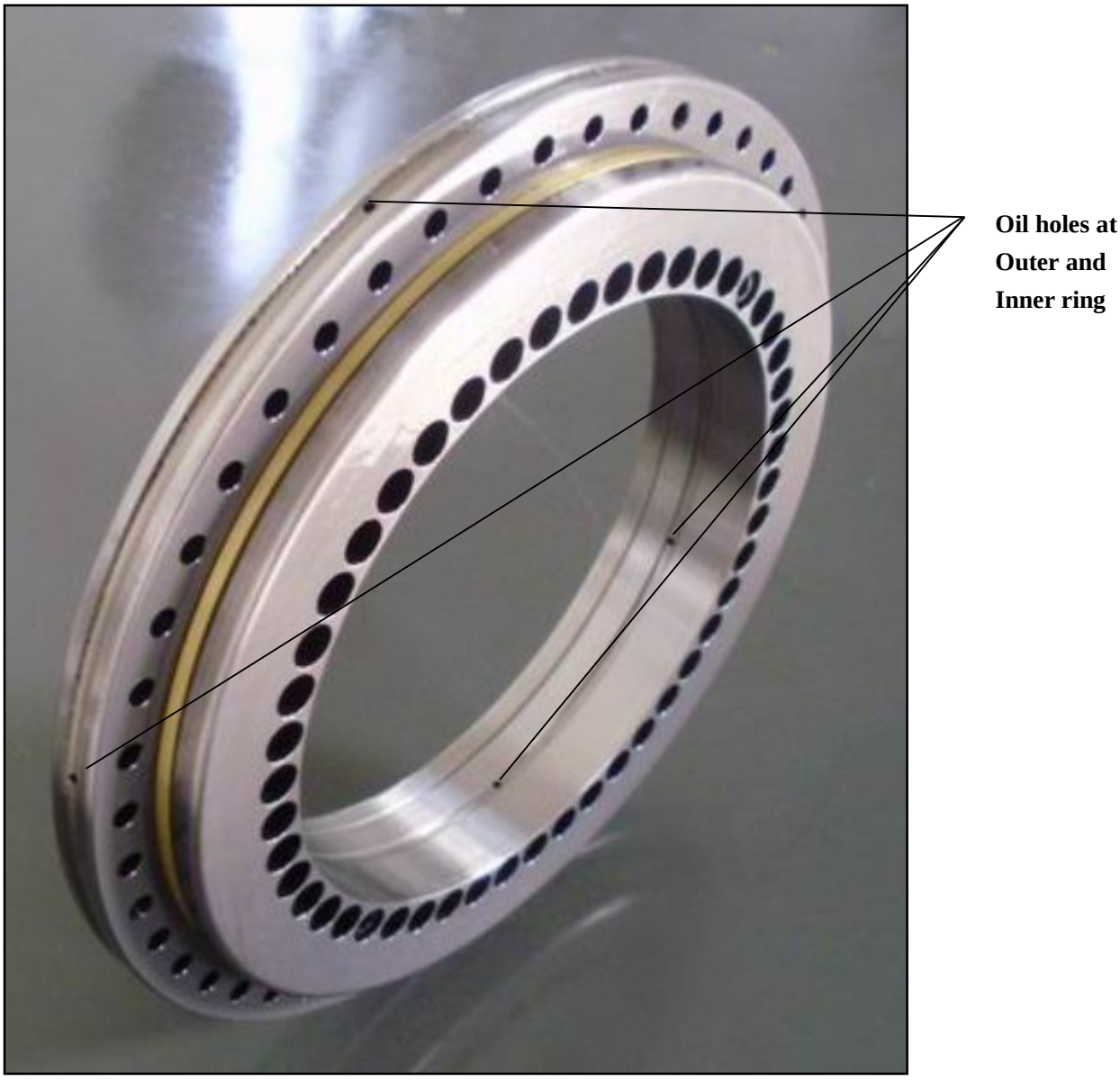
YRT Rotary Table bearing use German high quality grease for lubrication, standard oil filling holes are made on the bearing, lubrication maintenance points are as follows：

2.1 Grease：**LUBCON Turmogrease Li 802 EP (Made in German)**

2.2 Grease maintenance cycletime: 3-5 months;

2.3 Check the situation of bearing grease regularly, ensure an clean environment to prevent contaminants from entering the bearing;

2.4 Fill the grease by oil guns or other tools through the oil holes location as shown below:



3. Turntable bearing mounting size table（4 parts）

YRT bearings 3D model download|Turntable design Data|BYC Provide|Stp Format

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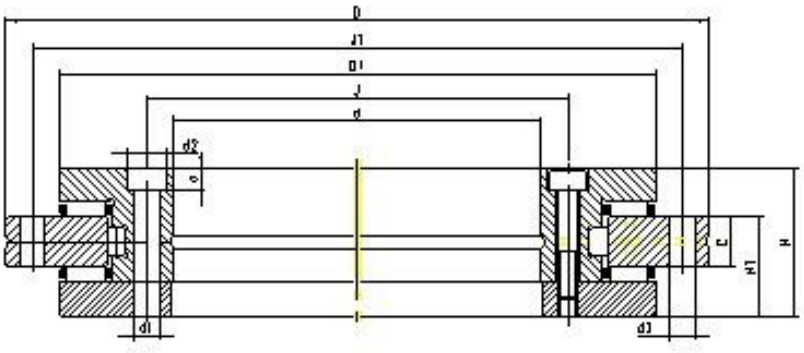
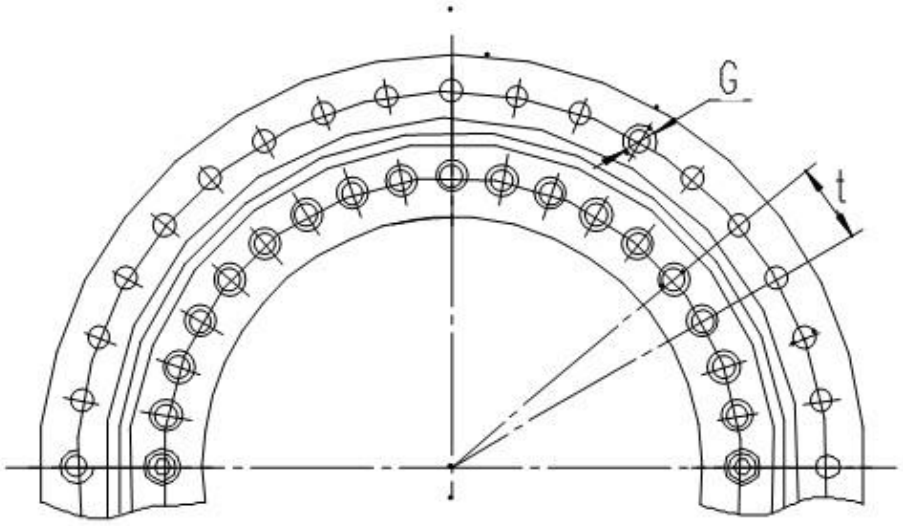


1.Bearing size table

bearing Model number	boundary dimensions								fixing holes					
	d	D	H	H1	C	D1	J	J1	inner ring				outer ring	
	unit： mm								d1	d2	a	num	d3	num
									mm				mm	
YRT50	50	126	30	20	10	105	63	116	5.6	—	—	10	5.6	12
YRT80	80	146	35	23.35	12	130	92	138	5.6	10	4	10	4.6	12
YRT100	100	185	38	25	12	160	112	170	5.6	10	5.4	16	5.6	15
YRT120	120	210	40	26	12	184	135	195	7	11	6.2	22	7	21
YRT150	150	240	40	26	12	214	165	225	7	11	6.2	34	7	33
YRT180	180	280	43	29	15	244	194	260	7	11	6.2	46	7	45
YRT200	200	300	45	30	15	274	215	285	7	11	6.2	46	7	45
YRT260	260	385	55	36.5	18	345	280	365	9.3	15	8.2	34	9.3	33
YRT325	325	450	60	40	20	415	342	430	9.3	15	8.2	34	9.3	33
YRT395	395	525	65	42.5	20	486	415	505	9.3	15	8.2	46	9.3	45
YRT460	460	600	70	46	22	560	482	580	9.3	15	8.2	46	9.3	45
YRT580	580	750	90	60	30	700	610	720	11.4	18	11	46	11.4	42
YRT650	650	870	122	78	34	800	680	830	14	20	13	46	14	42
YRT850	850	1095	124	80.5	37	1018	890	1055	18	26	17	58	18	54
YRT950	950	1200	132	86	40	1130	990	1160	18	26	17	58	18	54
YRT1030	1030	1300	145	92.5	40	1215	1075	1255	18	26	17	60	18	66

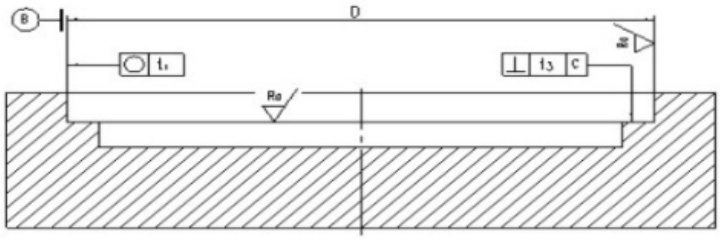


2.Mounting hole size table

num	Lifting holes		Pitch	Screw tightening torque	Basic load rating				Limiting speed	Bearing frictional torque	weigh t	Model number
					axial		Radial					
					dynamic load	static load	dynamic load	static load				
				MA2)	C a	Coa	Cr	Cor	grease			
	G	num	num×t	N m	KN				r/min	Nm	Kg	
2	—	—	12×30°	8.5	38	158	28.5	49.5	440	2.5	1.6	YRT50
2	—	—	12×30°	8.5	56	255	42.5	100	530	3	2.4	YRT80
2	M5	3	18×20°	8.5	76.5	415	47.5	120	430	3	4.1	YRT100
2	M8	3	24×15°	14	102	540	52	143	340	7	5.3	YRT120
2	M8	3	36×10°	14	112	630	56	170	320	10	6.2	YRT150
2	M8	3	48×7.5°	14	118	710	69.5	200	280	12	7.7	YRT180
2	M8	3	48×7.5°	14	120	765	81.5	220	260	14	9.7	YRT200
2	M12	3	36×10°	34	160	1060	93	290	200	20	18.3	YRT260
2	M12	3	36×10°	34	275	1930	120	345	170	40	25	YRT325
2	M12	3	48×7.5°	34	300	2280	186	655	140	55	33	YRT395
2	M12	3	48×7.5°	34	355	2800	200	765	120	70	45	YRT460
2	M12	6	48×7.5°	68	490	4250	228	965	80	140	89	YRT580
2	M12	6	48×7.5°	116	1040	8000	490	1800	65	200	170	YRT650
2	M16	6	60×6°	284	1000	8650	455	1730	50	300	253	YRT850
2	M16	6	60×6°	284	1290	11400	530	2040	40	600	312	YRT950
12	M16	6	72×5°	284	1380	12000	620	2650	35	800	375	YRT1030

3.Shaft ring dimensional accuracy table

machining tolerances for shafts							
Model number	(mm) shaft diameter			(○) roundness	(⊥) perpendicul-arity	(//) parallelism	Ra roughness
	Nominal dimension	upper	lower	t1 (μm)	t3 (μm)	t4 (μm)	Ra (μm)
YRT50	50	0	-0.011	4	3	3	0.4
YRT80	80	0	-0.013	5	3	3	0.4
YRT100	100	0	-0.015	6	4	4	0.4
YRT120	120	0	-0.015	6	4	4	0.4
YRT150	150	0	-0.018	8	5	5	0.8
YRT180	180	0	-0.018	8	5	5	0.8
YRT200	200	0	-0.02	10	7	7	0.8
YRT260	260	0	-0.023	12	8	8	0.8
YRT325	325	0	-0.025	13	9	9	0.8
YRT395	395	0	-0.025	13	9	9	0.8
YRT460	460	0	-0.027	15	10	10	0.8
YRT580	580	0	-0.028	16	11	11	1.6
YRT650	650	0	-0.032	18	12	12	1.6
YRT850	850	0	-0.036	20	14	14	1.6
YRT950	950	0	-0.036	20	14	14	1.6
YRT1030	1030	0	-0.045	25	16	16	1.6



4. Bearing House dimensional accuracy table

machining tolerances for housings							
Model number	(mm) housing diameter			(○) roundness	(⊥) perpendicu-larity	(//) parallelism	Ra roughness
	Nominal dimension	upper	lower	t1 (μm)	t3 (μm)	t4 (μm)	Ra (μm)
YRT50	126	+0.018	-0.007	8	5	5	0.8
YRT80	146	+0.018	-0.007	8	5	5	0.8
YRT100	185	+0.022	-0.007	10	7	7	0.8
YRT120	210	+0.022	-0.007	10	7	7	0.8
YRT150	240	+0.022	-0.007	10	7	7	0.8
YRT180	280	+0.025	-0.007	12	8	8	0.8
YRT200	300	+0.025	-0.007	12	8	8	0.8
YRT260	385	+0.029	-0.007	13	9	9	0.8
YRT325	450	+0.033	-0.007	15	10	10	0.8
YRT395	525	+0.034	-0.01	16	11	11	1.6
YRT460	600	+0.034	-0.01	16	11	11	1.6
YRT580	750	+0.038	-0.012	18	12	12	1.6
YRT650	870	+0.044	-0.012	20	14	14	1.6
YRT850	1095	+0.052	-0.014	24	16	16	1.6
YRT950	1200	+0.052	-0.014	24	16	16	1.6
YRT1030	1300	+0.060	-0.016	27	18	18	1.6