

TURNTABLE BEARING

YRT TURNTABLE BEARINGS

Precision Axial-Radial Bearings for Rotary Tables and Indexing Systems

YRT turntable bearings are precision axial-radial bearings designed for bidirectional axial positioning, radial load support and high tilting rigidity. They are suitable for rotary tables, indexing heads, positioning axes and precision machine tool applications.



YRT turntable bearings for precision rotary table applications

- ✓ **YRT Standard Series**
- ✓ **High Axial and Radial Rigidity**
- ✓ **Bidirectional Axial Load Support**
- ✓ **Ready-to-Mount Bearing Design**
- ✓ **Model Confirmation and Technical Support**

Product Highlights

STRUCTURE

Axial-Radial Layout

Two axial roller rows and one radial roller row support combined loads in one compact unit.

PERFORMANCE

High Rigidity

Designed to support accurate rotation and stable positioning under machining loads.

APPLICATIONS

Rotary Systems

Used in CNC rotary tables, indexing tables, vertical grinding machines and measuring equipment.

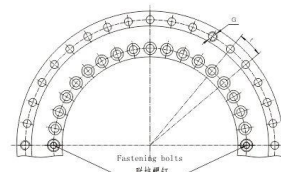
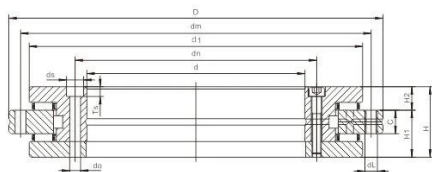
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YRT Standard Series Turntable Bearings

The YRT standard series can support bidirectional axial load, radial load and overturning moment at the same time. The bearing is supplied with mounting holes and can be directly fixed by bolts.



YRT axial-radial bearing structure, mounting dimensions and fixing hole arrangement

BOUNDARY DIMENSIONS & LOAD RATINGS

Model Number	Boundary Dimensions								Basic Load Rating				Limiting Speed Grease r/min	Weight kg
	unit: mm								Axial Load		Radial Load			
	d	D	H	H1	C	D1	J	J1	Ca	Coa	Cr	Cor		
YRT50	50	126	30	20	10	105	63	116	38	158	28.5	49.5	440	1.6
YRT80	80	146	35	23.35	12	130	92	138	56	255	42.5	100	530	2.4
YRT100	100	185	38	25	12	160	112	170	76.5	415	47.5	120	430	4
YRT120	120	210	40	26	12	184	135	195	102	540	52	143	340	5.3
YRT150	150	240	40	26	12	214	165	225	112	630	56	170	320	6.2
YRT180	180	280	43	29	15	244	194	260	118	710	69.5	200	280	7.7
YRT200	200	300	45	30	15	274	215	285	120	765	81.5	220	260	9.7
YRT260	260	385	55	36.5	18	345	280	365	160	1060	93	290	200	18.3
YRT325	325	450	60	40	20	415	342	430	275	1930	120	345	170	25
YRT395	395	525	65	42.5	20	486	415	505	300	2280	186	655	140	33
YRT460	460	600	70	46	22	560	482	580	355	2800	200	765	120	45
YRT580	580	750	90	60	30	700	610	720	490	4250	228	965	80	89
YRT650	650	870	122	78	34	800	680	830	1040	8000	490	1800	65	170
YRT850	850	1095	124	80.5	37	1018	890	1055	1000	8650	455	1730	50	253
YRT950	950	1200	132	86	40	1130	990	1160	1290	11400	530	2040	40	312
YRT1030	1030	1300	145	92.5	40	1215	1075	1255	1380	12000	620	2650	39	375

FIXING HOLES, TORQUE & ACCURACY

Model Number	Fixing Holes								Pitches Qty × t	Tightening Torque Nm	Frictional Torque Nm	Rotation Accuracy μm
	Inner Ring Holes				Outer Ring Holes		Extraction Thread Hole					
	d1	d2	a	Qty	d3	Qty	G	Qty				
YRT50	5.6	—	—	12	5.6	12	—	—	12×30°	8.5	2.5	2
YRT80	5.6	10	4	12	4.6	12	—	—	12×30°	8.5	3	3
YRT100	5.6	10	5.4	18	5.6	15	M5	3	18×20°	8.5	3	3
YRT120	7	11	6.2	24	7	21	M8	3	24×15°	14	7	3
YRT150	7	11	6.2	36	7	33	M8	3	36×10°	14	10	3
YRT180	7	11	6.2	48	7	45	M8	3	48×7.5°	14	12	4
YRT200	7	11	6.2	48	7	45	M8	3	48×7.5°	14	14	4
YRT260	9.3	15	8.2	36	9.3	33	M12	3	36×10°	34	20	6
YRT325	9.3	15	8.2	36	9.3	33	M12	3	36×10°	34	40	6
YRT395	9.3	15	8.2	48	9.3	45	M12	3	48×7.5°	34	55	6
YRT460	9.3	15	8.2	48	9.3	45	M12	3	48×7.5°	34	70	6
YRT580	11.4	18	11	48	11.4	42	M12	6	48×7.5°	68	140	10
YRT650	14	20	13	48	14	42	M12	6	48×7.5°	116	200	10
YRT850	18	26	17	60	18	54	M16	6	60×6°	284	300	12
YRT950	18	26	17	60	18	54	M16	6	60×6°	284	600	12
YRT1030	18	26	17	72	18	66	M16	6	72×5°	284	800	12

Note: Dimensions, load ratings, fixing holes, limiting speeds, torque values, rotation accuracy and weights are for reference only. Final technical details, availability, precision grade, preload, cage type, lubrication and matched set configuration should be confirmed before ordering.