



TIMKEN

**PRECISION CYLINDRICAL ROLLER BEARINGS FOR ROTARY TABLES,
MILLING HEADS, DEFENSE AND ROBOTICS**

Greater Productivity. Stronger Performance.

As a global leader in bearing technology with extensive engineering experience in the machine tool industry, **we understand the value of increasing productivity and performance.**

Greater Productivity and Stronger Performance for Precision Rotary Tables

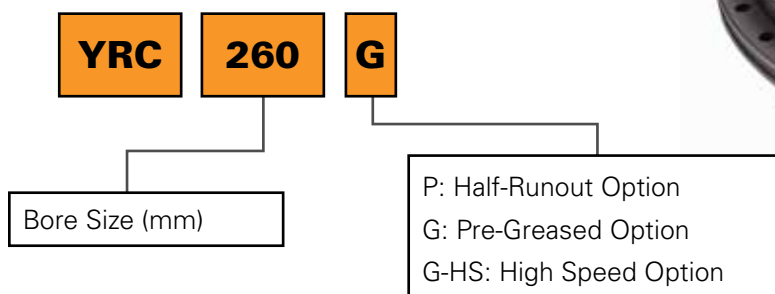
Timken® precision cylindrical roller bearings are engineered for consistency, accuracy and rigidity in rotary table applications.

They feature an integrated design that includes an L-shaped inner ring, shaft washer, outer ring, two thrust-roller cage assemblies and a radial full complement row.

- + Superior running accuracy, lower operating temperature and reduced noise through P4 precision class
- + Greater load carrying capacity and better bearing stiffness control, due to closely controlled preload
- + Potential for increased axial stiffness with an optional thrust washer
- + Effectively manages loads from multiple directions
- + Easy bearing selection due to direct competitor interchange
- + Oil lubrication is standard; grease lubrication available
- + Bore size range: 80mm to 460mm (3.150 in. to 18.110 in.)
- + Easy to install units

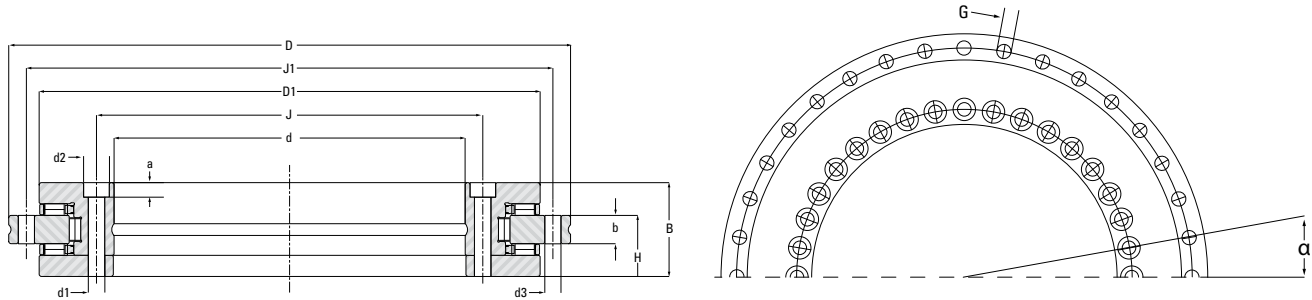
Applications:

- Machine Tools
 - Vertical-axis Rotation
 - Positioning and Indexing Tables
- Rotary Grinding Machines
- Industrial Robotic Arms
- Defense
 - Ordnance
 - Radar Turrets
 - Large Telescopes



NOTE: AMS Encoder is a possible option.
Contact your local Sales Representative for more information.


YRC : Combined Radial Axial Roller Bearing



Part Number	Suitable Table Diameter	d	D	B	H	b	D1	J	J1	d1	d2	a	Qty of Fixing Holes
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	
YRC80	200	80	146	35	23.35	12	130	92	138	5.6	10	4.0	9
YRC100	260	100	185	38	25.00	12	160	112	170	5.6	10	5.4	16
YRC120	315	120	210	40	26.00	12	184	135	195	7.0	11	6.2	22
YRC150	350	150	240	40	26.00	12	214	165	225	7.0	11	6.2	34
YRC180	400	180	280	43	29.00	15	244	194	260	7.0	11	6.2	46
YRC200	500	200	300	45	30.00	15	274	215	285	7.0	11	6.2	46
YRC260	630	260	385	55	36.50	18	345	280	365	9.3	15	8.2	34
YRC325	700	325	450	60	40.00	20	415	342	430	9.3	15 ⁽¹⁾	8.2	34
YRC395	800	395	525	65	42.50	20	486	415	505	9.3	15	8.2	46
YRC460	1000	460	600	70	46.00	22	560	482	580	9.3	15	8.2	46

Part Number	d3 mm	Qty of d3	Qty of Assembly Screws	G	G Qty	Qty x °	Axial and Radial Runout		Load Ratings According to ISO				Axial Stiffness kN/μm	Max Speed with Oil Lubrication rpm	Max Speed with Grease Lubrication rpm
							μm	kN	Radial		Axial				
									Dynamic	Static	Dynamic	Static			
YRC80	4.6	12	3	-	-	12 x 30°	3	45.3	106.8	55.4	278.7	1.7	870	420	
YRC100	5.6	15	2	M5	3	18 x 20°	3	67.7	162.3	97.8	528.0	2.1	700	330	
YRC120	7.0	21	2	M8	3	24 X 15°	3	71.9	174.5	108.5	633.6	2.3	570	270	
YRC150	7.0	33	2	M8	3	36 x 10°	3	82.0	236.2	109.7	681.1	2.4	520	250	
YRC180	7.0	45	2	M8	3	48 X 7.5°	4	88.5	274.2	102.1	643.2	2.9	470	230	
YRC200	7.0	45	2	M8	3	48 X 7.5°	4	135.4	297.2	103.6	681.1	2.8	420	200	
YRC260	9.3	33	2	M12	3	36 x 10°	6	149.5	478.3	125.0	946.0	4.1	320	160	
YRC325	9.3	33	2	M12	3	36 x 10°	6	165.5	581.9	219.9	1837.4	5.1	270	130	
YRC395	9.3	45	2	M12	3	48 X 7.5°	6	180.5	696.2	238.2	2143.6	6.4	220	110	
YRC460	9.3	45	2	M12	3	48 X 7.5°	6	195.3	810.5	258.3	2480.5	7.0	200	100	

⁽¹⁾ Milled slots open towards bearing bore



From bearings, seals and lubrication, to reliability, engineering and maintenance support, our strong portfolio of friction management solutions is designed to help keep your equipment performing more reliably and efficiently.

Contact your Timken sales representative or visit us online at www.timken.com to discover how we can help you increase productivity and performance.

TIMKEN

The Timken team applies their know-how to improve the reliability and performance of machinery in diverse markets worldwide. The company designs, makes and markets high-performance mechanical components, including bearings, belts, chain, gears and related mechanical power transmission products and services.

Stronger. By Design.

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