

YOKE-TYPE TRACK ROLLERS

YCR, YCRS SERIES

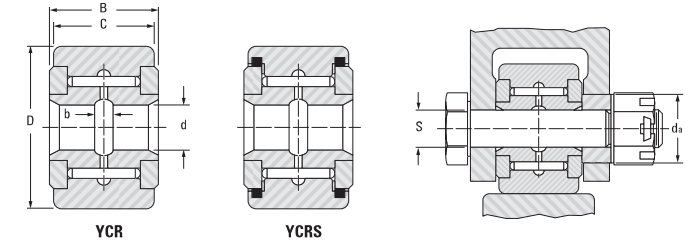
INCH SERIES

- Non-separable unit with outer ring, a full complement of needle rollers, inner ring, self-lubricating resin internal thrust washers, and two retaining washers securely fastened to the inner ring.
- Seals in counterbores of outer ring seal against the retaining washers; retain lubricant and exclude foreign matter (YCRS Series).
- Dimensions shown are for unplated finished unit.

- Tolerance limits for outer diameters of stud and outer ring refer to "single mean diameter."
- The machine element with the holes in which the mounting bolt is supported must be sufficiently rigid to resist local crushing under the applied load and to resist bending which can cause uneven loading of the rollers.
- When the applied loads are high, the tight transition fit should be used in conjunction with a high strength shaft or bolt. When loads are moderate, the loose transition fit may be used with a high strength shaft or bolt. For light loads, the loose transition fit may be used with an unhardened shaft or bolt.

Outer Dia.	D		d		B	C	b	Track Roller Designation	
	0	0	Max.	Min.	+0.13	0	(nom.)	Without Seals	With Seals and Internal Thrust Washers
	-0.025	-0.001			-0.25	-0.01	-0.13		
in	mm	mm	mm	mm	mm	mm	mm		
3/4	19.05 0.750	6.355 0.2502	6.34 0.2496	14.280 0.5625	12.70 0.500	2.95 0.116	YCR-12	YCRS-12	
7/8	22.23 0.875	6.355 0.2502	6.34 0.2496	14.280 0.5625	12.70 0.500	2.95 0.116	YCR-14	YCRS-14	
1	25.40 1.000	7.943 0.3127	7.927 0.3121	17.460 0.6875	15.88 0.625	3.18 0.125	YCR-16	YCRS-16	
1 1/8	28.58 1.125	7.943 0.3127	7.927 0.3121	17.460 0.6875	15.88 0.625	3.18 0.125	YCR-18	YCRS-18	
1 1/4	31.75 1.250	9.53 0.3752	9.515 0.3746	20.640 0.8125	19.05 0.750	3.20 0.126	YCR-20	YCRS-20	
1 3/8	34.93 1.375	9.53 0.3752	9.515 0.3746	20.640 0.8125	19.05 0.750	3.20 0.126	YCR-22	YCRS-22	
1 1/2	38.10 1.500	1.118 0.4377	1.1102 0.4371	23.810 0.9375	22.23 0.875	3.18 0.125	YCR-24	YCRS-24	
1 5/8	41.20 1.625	1.118 0.4377	1.1102 0.4371	23.810 0.9375	22.23 0.875	3.18 0.125	YCR-26	YCRS-26	
1 3/4	44.45 1.750	12.703 0.5001	12.687 0.4995	26.990 1.0625	25.40 1.000	3.20 0.126	YCR-28	YCRS-28	
1 7/8	47.63 1.875	12.703 0.5001	12.687 0.4995	26.990 1.0625	25.40 1.000	3.20 0.126	YCR-30	YCRS-30	
2	50.80 2.000	15.878 0.6251	15.862 0.6245	33.340 1.3125	31.75 1.250	3.20 0.126	YCR-32	YCRS-32	
2 1/4	57.15 2.250	15.878 0.6251	15.862 0.6245	33.340 1.3125	31.75 1.250	3.20 0.126	YCR-36	YCRS-36	
2 1/2	63.50 2.500	19.053 0.7501	19.037 0.7495	39.690 1.5625	38.10 1.500	3.68 0.145	YCR-40	YCRS-40	

- The unit should be clamped endwise between parallel faces perpendicular to the axis to prevent the retaining washers from coming off under load. If the unit cannot be clamped, a close axial fit in the yoke is required.



C	Load Rating					Speed Rating Grease min ⁻¹	Mounting Dimensions				da	Approx Wt.
	As a Bearing		As a Track Roller				Shaft Bolt Diameter (S)					
	Dynamic	Static	Dynamic		Static		Loose Fit (f7)		Tight Fit (h6)			
	C _d	C _s	C _{dw}	F _{r perm}	F _{s perm}		Max.	Min.	Max.	Min.		
10.14 2280	14.68 3300	6.27 1410	2.92 656	6.98 1570	3800	6.342 0.2497	6.332 0.2493	6.363 0.2505	6.353 0.2501	1.55 0.610	0.03 0.06	
10.14 2280	14.68 3300	7.38 1660	4.94 1110	11.88 2670	3800	6.342 0.2497	6.332 0.2493	6.363 0.2505	6.353 0.2501	1.55 0.610	0.04 0.08	
12.99 2920	21.93 4930	8.41 1890	5.60 1260	13.43 3020	2800	7.930 0.3122	7.920 0.3118	7.950 0.3130	7.940 0.3126	1.98 0.780	0.07 0.15	
12.99 2920	21.93 4930	9.43 2120	8.18 1840	17.48 3920	2800	7.930 0.3122	7.920 0.3118	7.950 0.3130	7.940 0.3126	1.98 0.780	0.08 0.17	
23.31 5240	30.29 6810	16.06 3610	7.38 1660	17.75 3990	2700	9.517 0.3747	9.507 0.3743	9.538 0.3755	9.528 0.3751	2.49 0.980	0.11 0.24	
23.31 5240	30.29 6810	17.66 3970	10.45 2350	25.04 5630	2700	9.517 0.3747	9.507 0.3743	9.538 0.3755	9.528 0.3751	2.49 0.980	0.14 0.3	
28.16 6330	40.26 9050	20.15 4530	11.97 2690	28.74 6460	2700	11.105 0.4372	11.095 0.4368	11.125 0.4380	11.115 0.4376	2.77 1.090	0.19 0.41	
28.16 6330	40.26 9050	21.62 4860	15.66 3520	36.08 8110	2300	11.105 0.4372	11.095 0.4368	11.125 0.4380	11.115 0.4376	2.77 1.090	0.23 0.5	
35.50 7980	56.49 12700	25.93 5830	19.04 4280	45.82 10300	1900	12.692 0.4997	12.682 0.4993	12.718 0.5007	12.708 0.5003	3.18 1.250	0.29 0.64	
35.50 7980	56.49 12700	27.40 6160	23.66 5320	51.15 11500	1900	12.692 0.4997	12.682 0.4993	12.718 0.5007	12.708 0.5003	3.18 1.250	0.36 0.8	
43.19 9710	75.62 17000	31.89 7170	28.11 6320	62.72 14100	1700	15.867 0.6247	15.857 0.6243	15.893 0.6257	15.883 0.6253	3.58 1.410	0.48 1.05	
43.19 9710	75.62 17000	34.70 7800	38.86 8960	73.40 16500	1700	15.867 0.6247	15.857 0.6243	15.893 0.6257	15.883 0.6253	3.58 1.410	0.60 1.32	
58.27 13100	117.43 26400	44.48 10000	54.71 12300	104.09 23400	1400	19.042 0.7497	19.032 0.7493	19.068 0.7507	19.058 0.7503	4.29 1.690	0.82 1.8	

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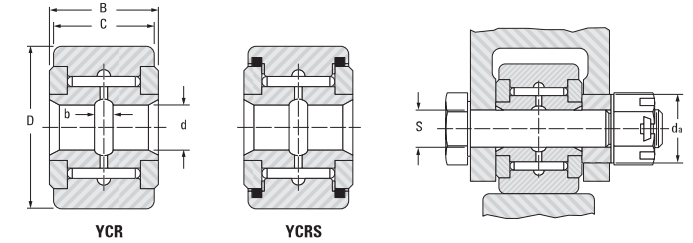
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	-0.025 -0.001	-0.001			-0.25 -0.01	-0.13 -0.005			
in	mm	in	mm	in	mm	in	mm		
2 3/4	69.85 2,750	19.053 0,7501	19.037 0,7495	39.690 1,5625	38.10 1,500	3.68 0,145		YCR-44	YCRS-44
3	76.20 3,000	25.403 1,0001	25.387 0,9995	46.040 1,8125	44.45 1,750	3.68 0,145		YCR-48	YCRS-48
3 1/4	82.55 3,250	25.403 1,0001	25.387 0,9995	46.040 1,8125	44.45 1,750	3.68 0,145		YCR-52	YCRS-52
3 1/2	88.90 3,500	28.578 1,1251	28.562 1,1245	52.390 2,0625	50.80 2,000	3.68 0,145		YCR-56	YCRS-56
4	101.60 4,000	31.753 1,2501	31.737 1,2495	58.740 2,3125	57.15 2,250	3.68 0,145		YCR-64	YCRS-64
5	127.00 5,000	44.453 1,7501	44.437 1,7495	73.030 2,875	69.85 2,750	8.66 0,341		YCR-80	YCRS-80
6	152.40 6,000	57.153 2,2501	57.137 2,2495	85.725 3,375	82.55 3,250	8.48 0,334		YCR-96	YCRS-96

- The unit should be clamped endwise between parallel faces perpendicular to the axis to prevent the retaining washers from coming off under load. If the unit cannot be clamped, a close axial fit in the yoke is required.



As a Bearing		Load Rating				Speed Rating Grease	Mounting Dimensions				da	Approx Wt.
		As a Track Roller		Shaft Bolt Diameter (S)			Loose Fit (f7)		Tight Fit (h6)			
		Dynamic	Static				Max.	Min.	Max.	Min.		
C	C ₀	C _{0v}	F _{r perm}	F _{r perm}	mm	mm	mm	mm	N-m	kg		
kN	kN	kN	kN	kN	mm	mm	mm	mm	lb-in	lbs		
lbf	lbf	lbf	lbf	lbf	in	in	in	in				
58.27 13100	117.43 26400	47.15 10600	71.17 16000	116.54 26200	1400	19.042 0.7497	19.032 0.7493	19.068 0.7507	19.058 0.7503	4.29 1.690	1.02 2.25	
74.29 16700	177.93 40000	51.60 11600	68.50 15400	131.22 29500	990	25.390 0.9996	25.377 0.9991	25.420 1.0008	25.408 1.0003	5.41 2.130	1.41 3.1	
74.29 16700	177.93 40000	54.71 12300	85.85 19300	147.24 33100	990	25.390 0.9996	25.377 0.9991	25.420 1.0008	25.408 1.0003	5.41 2.130	1.64 3.62	
109.87 24700	225.52 50700	82.29 18500	94.75 21300	191.27 43000	950	28.565 1.1246	28.552 1.1241	28.595 1.1258	28.583 1.1253	6.20 2.440	2.25 4.95	
137.89 31000	319.38 71800	98.75 22200	125.88 28300	250.43 56300	780	31.740 1.2496	31.727 1.2491	31.770 1.2508	31.758 1.2503	7.11 2.800	3.20 7.05	
210.40 47300	484.86 109000	149.02 33500	171.70 38600	370.09 83200	620	44.440 1.7496	44.427 1.7491	44.470 1.7508	44.458 1.7503	9.04 3.560	6.51 14.34	
285.13 64100	578.27 130000	201.06 45200	188.16 42300	436.37 98100	440	57.140 2.2496	57.127 2.2491	57.170 2.2508	57.158 2.2503	11.35 4.470	9.15 20.16	