



DYR
Double Row • Heavy Roller
Yoke Type
Shielded • Full Complement

INTERCHANGE

SMITH®	RBC
DYR-1 ¹ / ₂	RBY-1 ¹ / ₂
DYR-1 ⁵ / ₈	RBY-1 ⁵ / ₈
DYR-1 ³ / ₄	RBY-1 ³ / ₄
DYR-1 ⁷ / ₈	RBY-1 ⁷ / ₈
DYR-2	RBY-2
DYR-2 ¹ / ₄	RBY-2 ¹ / ₄
DYR-2 ¹ / ₂	RBY-2 ¹ / ₂
DYR-2 ³ / ₄	RBY-2- ³ / ₄
DYR-3	RBY-3
DYR-3 ¹ / ₄	RBY-3 ¹ / ₄
DYR-3 ¹ / ₂	RBY-3 ¹ / ₂
DYR-4	RBY-4
DYR-5	RBY-5
DYR-6	RBY-6

General Information

The **SMITH DYR** series is designed to meet higher performance requirements. Bearings are provided with a double row of **Heavy Duty Rollers**, thicker outer ring and contact seals all which provide a longer life. Consult our Engineering Department for special variations.

Bearings are dimensionally interchangeable, however internal design varies between manufacturers.

Dimensional Data (inches)

SMITH Bearing® Number	D Roller O.D. + .000 - .001	d Bore Diameter	Tolerance	C Roller Width + .000 - .005	B Overall Width + .005 - .010	d1 Shoulder Diameter	Bearing Dynamic Capacity (lbs)	Bearing Static Capacity (lbs)	Max Allow. Load (lbs)	Track Capacity at 40 RC (lbs)
SEALED										
DYR-1 ¹ / ₂	1.500	.4375	+ .0002 - .0004	.875	.9375	.750	5,660	6,180	3,200	3,260
DYR-1 ⁵ / ₈	1.625	.4375		.875	.9375	.750	5,660	6,180	3,420	3,530
DYR-1 ³ / ₄	1.750	.500		1.000	1.0625	1.000	8,400	10,800	4,100	4,460
DYR-1 ⁷ / ₈	1.875	.500		1.000	1.0625	1.000	8,400	10,800	5,480	4,750
DYR-2	2.000	.625		1.250	1.3125	1.125	12,800	17,700	7,050	6,400
DYR-2 ¹ / ₄	2.250	.625		1.250	1.3125	1.125	12,800	17,700	10,980	7,200
DYR-2 ¹ / ₂	2.500	.750		1.500	1.5625	1.250	17,300	20,800	13,300	9,200
DYR-2 ³ / ₄	2.750	.750		1.500	1.5625	1.250	17,300	20,800	17,200	10,200
DYR-3	3.000	1.000	+ .0001 - .0005	1.750	1.8125	1.500	29,700	40,200	18,800	13,100
DYR-3 ¹ / ₄	3.250	1.000		1.750	1.8125	1.500	29,700	40,200	26,200	14,100
DYR-3 ¹ / ₂	3.500	1.125		2.000	2.0625	1.625	37,000	49,500	28,700	17,000
DYR-4	4.000	1.250		2.250	2.3125	1.750	46,700	58,800	30,500	21,600
DYR-5	5.000	1.750		2.750	2.8750	2.250	72,400	98,400	56,600	34,420
DYR-6	6.000	2.250		3.250	3.3750	3.000	93,800	160,000	76,000	50,500

- 1) Add suffix "C" for Crowned Outer Race. Example: **DYR-2-C**.
- 2) Lubrication Holes available upon request.
- 3) Available Unsealed upon request.