

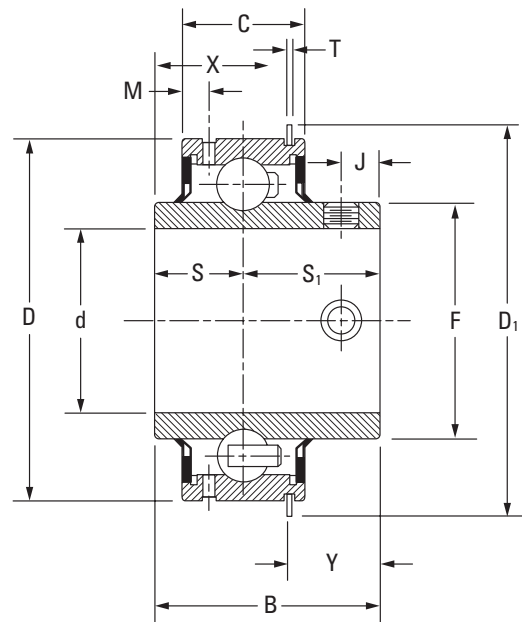
ER INDUSTRIAL SERIES, RELUBRICATABLE TYPES

- Incorporates (optional) Shaft Guarding Technology, which reduces replacement time, provides shaft protection and prolongs shaft life.
- This bearing is designed for use in applications where low-starting torque and low-running torque are necessary.
- The ER-DD series is for applications where extremely low torque is required.
- Test results indicate an average of 95 percent reduction in start-up torque when using ER-DD instead of the standard ER bearing. Running torque is reduced up to 85–90 percent.

Suggested shaft tolerances:

1/2 in. – 1 15/16 in., nominal to -0.013 mm, -0.0005 in.;

2 in. – 3 7/16 in., nominal to -0.025 mm, -0.0010 in.



Bearing No.	Basic Outer-Ring Size	Shaft Dia. d	O.D. D	Ring Widths												Set Screw Size	Brg. Wt.		Static Load Rating C ₀	Extended Dynamic Load Rating C _E
				Inner B	Outer C	S	S ₁	F	J	D ₁	Y	T	M	X						
		in.	mm in.	mm in.	mm in.	mm in.	mm in.	mm in.	mm in.	mm in.	mm in.	mm in.	mm in.	mm in.	mm in.	kg lbs.	N lbs.	N lbs.		
ER08 ⁽¹⁾	204	1/2	47	30.963	15.817	12.700	18.263	27.546	5.131	52.400	16.612	1.067	3.861	14.351	M5X.8	0.190	0.42			
ER10 ⁽¹⁾		5/8	1.850	1 7/32	5/8	1/2	64/89	1 5/64	13/64	2 6/95	1/16	3/64	5/32	9/16	10 - 32	0.167	0.37	6571.2		
ER12 ⁽¹⁾⁽²⁾		3/4														0.141	0.31	1480		
ER14 ⁽¹⁾⁽²⁾	205	7/8	52	34.841	18.992	14.275	20.566	33.820	6.774	57.531	17.341	1.067	3.404	17.501	M6X1	0.218	0.480			
ER15 ⁽²⁾		15/16	2.047	1 3/8	3/4	50/89	13/16	1 21/64	17/64	2 17/64	11/16	3/64	9/64	11/16	1/4 - 28	0.195	0.43	7814.4		
ER16 ⁽¹⁾⁽²⁾		1														0.181	0.40	1760		
ER18 ⁽²⁾	206	1 1/8	62	39.116	22.167	15.875	23.241	40.297	8.636	67.285	18.948	1.651	5.563	20.168	M6X1	0.340	0.75	11233.2		
ER19 ⁽²⁾		1 3/16	2.441	1 25/64	7/8	5/8	59/64	1 37/64	11/32	2 41/64	3/4	1/16	7/32	51/64	1/4 - 28	0.313	0.69	2530		
ER20 ⁽¹⁾⁽²⁾	207	1 1/4														0.567	1.25			
ER22 ⁽¹⁾⁽²⁾		1 3/8	72	45.415	23.754	17.475	27.940	46.825	10.363	78.105	22.301	1.651	5.563	23.114	M8X1.25	0.499	1.10	15273.6		
ER23 ⁽¹⁾⁽²⁾		1 7/16	2.834	1 25/32	15/16	11/16	1 7/64	1 27/32	13/32	3 5/64	7/8	1/16	7/32	29/32	5/16 - 24	0.476	1.05	3440		
ER24 ⁽¹⁾⁽²⁾	208	1 1/2	80	49.225	27.722	19.050	30.175	52.261	8.001	86.106	21.158	1.651	6.350	28.067	M8X1.25	0.671	1.48	19802.4		
ER27 ⁽²⁾		1 11/16	3.149	1 15/16	1 3/32	3/4	1 3/16	2 3/64	5/16	3 25/64	53/64	1/16	1/4	1 7/64	5/16 - 24			4460		
ER28 ⁽¹⁾⁽²⁾	209	1 3/4	85	50.368	27.724	19.050	31.318	57.899	9.144	91.110	22.250	1.651	6.325	28.118	M8X1.25	0.735	1.62	20424		
ER30		1 3/8	3.346	1 63/64	1 3/32	3/4	1 15/64	2 15/64	23/64	3 37/64	7/8	1/16	1/4	1 7/64	5/16 - 24	0.690	1.52	4600		
ER31 ⁽²⁾	210	1 7/8	90	51.587	28.517	19.050	32.537	62.827	10.008	96.088	24.282	2.413	7.061	27.305	M10X1.5	0.853	1.88	23132.4		
ER31 ⁽²⁾		1 15/16	3.543	2 1/32	1 1/8	3/4	1 9/32	2 15/32	25/64	3 25/32	31/32	3/32	9/32	1 5/64	3/8 - 24	0.834	1.84	5210		

⁽¹⁾DD low-drag/low-torque version is available.

⁽²⁾Available with Shaft Guarding Technology modification.

NOTE: Bore tolerances: 1.1874 in. – 2.1874 in. nominal to +0.013 mm, +0.0005 in.
2.2500 in. – 3.1874 in. nominal to +0.015 mm, +0.0006 in.

Continued on next page.