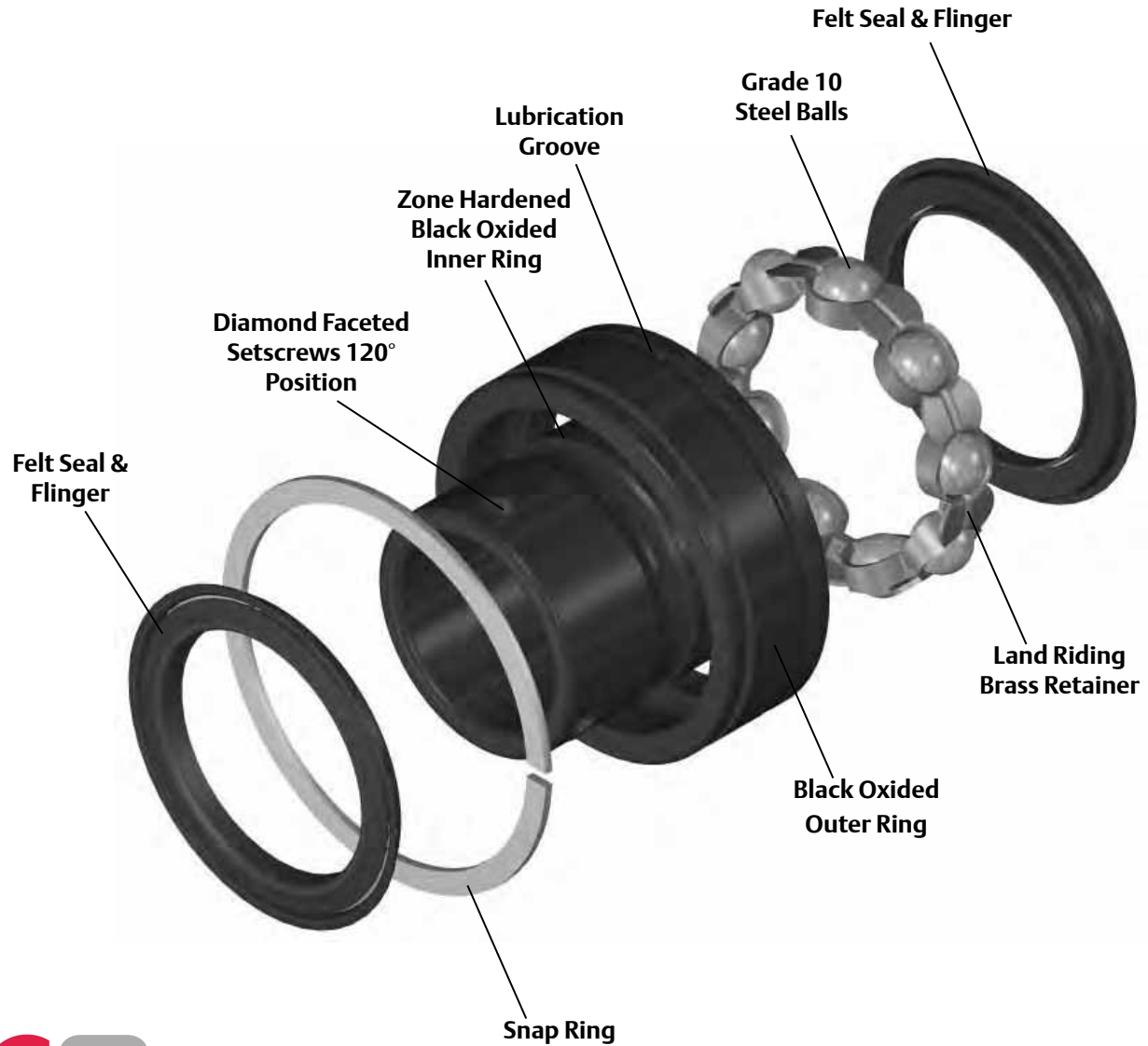
Sealmaster ER Style Ball Bearings

Sealmaster Gold ER bearings feature a cylindrical OD and snap ring for easy installation in a roll assembly. Shaft lock is achieved by either setscrew or Skwezloc® concentric locking collar. The felt seal with flinger provide a good balance between contaminant entry, GoldPlex HP™ grease loss and friction. Depending on your preference, these bearings are available in both inch and metric shaft sizes with a wide variety of sealing and lubrication options or ERX-TREME industry specific solutions as illustrated on the pages to follow.



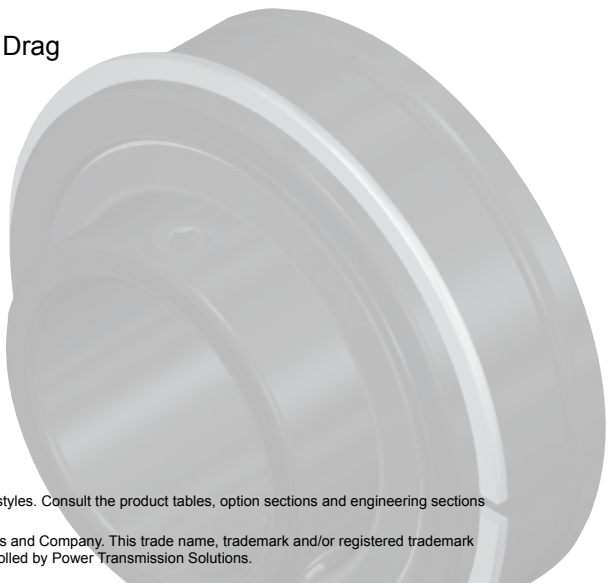
ER Style Nomenclature

ER - Cylindrical O.D. Bearing With Snap Ring
X - ERX-TREME Option
Bore Size
Inch - ##/16 (ex. 20/16 = 1 1/4")
R for 1 1/4" and 2" Reduced Only
Metric - Standard Duty - 2##, ## x 5 mm
(ex. 05 = 25 mm)
Standard Option
T - Skwezloc® Locking Collar
M - Metric Hardware (Metric - SKWEZ™)
C - Contact Seal
Common Option* (see table below)

ER X 16 T XLO

Common Option

3C	Triple Lip Contact Seal - replaced by DRT in most sizes
DRT	High Contamination
HI	ERX-Treme High Temperature Krytox* Grease
HIY	ERX-Treme High Temperature Krytox* Grease Expansion
LO	ERX-Treme Low Drag
X	Labyrinth Seal
XLO	ERX-Treme Extra Low Drag



*Note: Configurations are not available in all sizes or housing styles. Consult the product tables, option sections and engineering sections for more detail or consult a Bearing Application Engineer.

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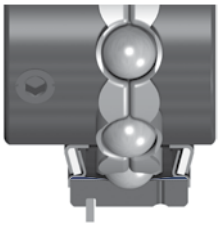
Features and Benefits



Outer Race With Tapered Lands

The Sealmaster ER Bearings Outer Ring is black oxided and comes standard with a locating ring and lubrication groove and lubrication inlet. In addition, they have the Sealmaster patented Tapered Lands bearing race profile which means that critical lubricant is circulated more efficiently, while requiring no regular service intervals. The outer land surface in a conventional bearing is parallel to the axis of the inner ring. The Tapered Lands surface is tapered in a radial direction toward the bearing race. This subtle yet crucial design change allows lubricant to more easily flow back to the raceway. With improved bearing lubricant circulation comes significantly longer bearing service life. This improved circulation and service life comes without any reductions in bearing radial or thrust capacities.

* For bearings that are maintained and relubricated on a regular basis, there is no significant difference in expected life.

Multiple Sealing Options
Felt Seal With Flinger

The standard felt seal provides a tight labyrinth seal which retains lubrication and acts as a filter to exclude contamination. The external stamping is a flinger which shields the felt from large contaminants and directs them away from the sealing surface. The design operates with less drag and less heat generation than rubber contact seals.

Single Lip Contact Seal

Single Lip Contact Seal consists of a nitrile rubber washer in metal shroud to shield the lip from large contaminants. The seal is designed to balance drag and protection in wet and dry environments. This can be specified by adding the suffix C to the part number.

Features and Benefits continued

Multiple Locking Methods
Setscrew Locking

120° spaced, balanced three point contact minimizes inner ring distortion vibration, reduces noise, and improves reliability. Precision manufactured diamond faceted setscrews contribute to improved clamping and resistance to back out.

Sealmaster Skwezloc® Concentric Locking Collar

SKWEZLOC is a concentric locking collar clamp design that results in near-perfect concentricity of the shaft to the bearing bore and maintains near perfect ball path roundness, while reducing fretting corrosion. This design eliminates the shaft damage of setscrew locking, and minimizes bearing induced vibration for smoother quieter operation. The collar has a TORX head cap screw that outlasts stripping 12 times longer than hex head cap screws.

Zone Hardened Inner Race

Sealmaster incorporates a unique heat treat process that hardens the inner race only where it is needed...under the ball path. The black oxided zone hardened inner race results in improved lock reliability as a result of less distortion at the setscrew location and improved thread conformity resulting in improved clamping and resistance to setscrew back-out.

Land Riding Retainer

The Sealmaster unique land riding metal retainer design provides superior pocket clearance allows for 360° oil circulation around the rolling elements resulting in better retained and utilized lubrication.

Options

Bearings are typically selected using L10 fatigue life calculations based on ideal operating conditions. However, most bearing problems are not fatigue related, but occur due to contamination, lubrication starvation, or other environmental issues. As a result our Bearing engineers have developed custom solutions to meet the varying severity, operating parameters and maintenance regularity, such as ERX-TREME and Custom Select.

ERX-TREME Options
Low Drag

Suffix	Description	Temperature	Environment	Speed Limits
LO	Low Drag	-20°F to 180°F	Dry/Dusty	
XLO	Extra Low Drag	-20°F to 100°F		

ERX-TREME Low Drag "LO"

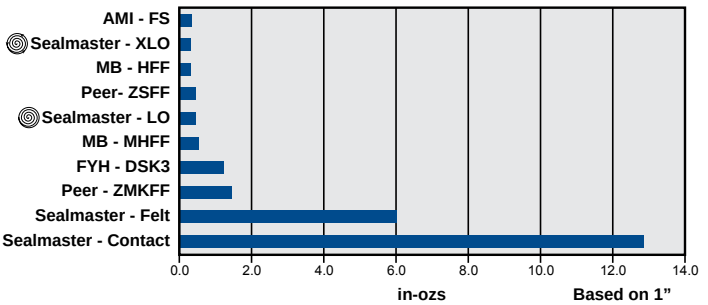
- Felt seal cut down to reduce drag
- Provides excellent barrier that works to retain grease and acts as a filter to reduce the ingress of debris contaminants
- Features a channeling grease that reduces drag while lubricating the bearing

ERX-TREME X-Tra Low Drag "XLO"

- Felt seal cut down and oil soaked for extra low drag
- Oil lubricated

Bearing Rotational Torque - Comparision Chart

	Company	Suffix Option	Seal Type	Lubrication
LO Drag Bearing Options	AMI®	FS	Non-Contact	Oil
	Sealmaster	XLO	Low Drag Felt	Oil
	MB®	HFF	Steel Labyrinth	Oil
	Peer®	ZSFF	Steel Labyrinth	Oil
	Sealmaster	LO	Low Drag Felt	Grease
	MB	MHFF	Steel Labyrinth	Grease
	FYH®	DSK3	Non-Contact	Oil
	Peer	ZMKFF	Steel Labyrinth	Grease
Standard Bearing Drag (Reference)	Sealmaster	-	Felt	Grease
	Sealmaster	C	Contact	Grease



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ERX-TREME Options continued

High Temperature

Suffix	Description	Temperature	Environment	Speed Limits
HI*	High Performance High Temp	200°F to 400°F	Dry/Dusty	
HIY				

ERX-TREME High Temperature "HI"

- High temperature bearing with increased internal clearance to accommodate thermal expansion of components
- High temperature Nomex seal* and Krytox*-226 grease

ERX-TREME Expansion - High Temperature "HIY"

- Expansion type HI Temperature utilizes a half-dog setscrew combined with a lock wire and is recommended for applications that require expansion capability.
- High temperature bearing with increased radial internal clearance to accommodate thermal expansion of components
- High temperature Nomex seal and Krytox*-226 grease
- Specify as ERX-xx HIY

This may be essential when shafts grow in length due to temperature changes. The single half-dog setscrew has a cylindrical nub that protrudes out of the bottom of the setscrew. The nub is used to mate loosely with a slot milled into the shafting. As the shaft spins, the nub interferes with the slot and positively turns the inner ring. See HIY installation instructions.

Note: All expansion bearings must be used in conjunction with a fixed bearing to stabilize the system.

KRYTOX Extended Lube Grease

- Used in HI and HIY suffix modified bearings
- KYRTOX GPL 226, an extremely high performance perflourinated oil and PTFE thickened grease
- KRYTOX grease has a superior service life and therefore diminishes re-lubrication frequency and extends life
- Engineers have found that, compared to other high temperature greases, the thermal stability and lubricity of the KRYTOX can improve high temperature bearing life by a factor of 4 to 45 times

Custom Select

High Contamination

Suffix	Description	Temperature	Environment	Speed Limits
DRT	Highly Contaminated	-20°F to 200°F	Highly Contaminated	

2C Seal

3C Seal

High Contamination "DRT"

Heavy Duty Multi-Lip contact seal (depending on size and series, either supplied with "2C" double lip or "3C" triple lip seal), 100% Grease Fill with Sealmaster GoldPlex HP Grease.

Options Availability*

ERX-TREME Options											ER Custom Select Option	
Bore Diameter		Nomenclature Size	Low Drag "LO"		X-Tra Low Drag "XLO"		High Temp. "HI"		High Temp. Exp. "HIY"		High Contamination "DRT"	
inch	mm											
1/2		8	O		O		O					
5/8		10	O		O		O					
11/16		11	O		O							
3/4		12	O	X	O		O	X	O			
	20	204	O	X	O	X		X				
7/8		14	O		O		O		O			
15/16		15	O		O		O		O			
1		16	O	X	O	X	O	X	O		O	X
	25	205	O	X	O	X	O				O	
1 1/8		18	O	X	O	X	O		O			
1 3/16		19	O	X	O	X	O		O			
1 1/4R		20R	O	X	O	X	O		O			
	30	206	O	X	O	X					O	X
1 1/4		20	O	X	O	X	O	X	O		O	
1 5/16		21	O									
1 3/16		22	O	X	O	X	O		O			
1 7/16		23	O	X	O	X	O		O		O	X
	35	207	O	X	O	X	O	X				
1 8/16		24	O	X	O	X	O	X	O		O	
1 9/16		25	O		O		O		O		O	
	40	208	O	X	O	X	O		O			
1 5/8		26		X	O		O				O	
1 11/16		27			O		O		O			
1 3/4		28	O	X	O	X	O		O		O	X
	45	209	O	X	O	X						
1 7/8		30	O				O		O		O	
1 15/16		31	O	X	O	X	O	X	O		O	X
2		32	O	X	O	X	O		O		O	
	50	210	O	X	O	X	O					
2 1/8		34	O									
2 3/16		35	O	X	O	X	O		O		O	X
2 1/4		36	O	X	O		O		O			
2 3/8		38			O		O		O			
2 7/16		39	O	X	O	X	O	X	O		O	X
	60	212					O					
2 1/2		40					O		O			
2 11/16		43					O		O		O	
	70	214										
2 15/16		47	O	X	O	X	O		O		O	
3		48					O		O			
3 3/16		51					O		O		O	
3 1/4		52					O					
3 7/16		55					O		O			
3 15/16		63					O					
4		64					O					

O Setscrew
X Skwezloc Locking Collar
* Sizes and configurations listed in table are subject to change without notice.
For sizes or configurations not listed, contact Bearing Technical Customer Service.

SEALMASTER® Performance Cylindrical OD Bearings (ER)

Duty: Standard

Rolling Elements: Ball

Housing: Cylindrical OD Insert

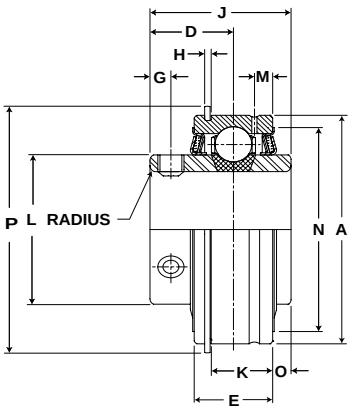
Lock: Setscrew

Seal: Felt

Optional Seal: Contact

Temperature: -20° to 220°F

Relube: Relube Through Outer Ring Groove



ER Cylindrical O.D. Bearing Insert - Setscrew Locking

Bore Diameter		Bearing Insert No.	Basic Dynamic Rating lb/N	Dimensions inch / mm												Max. Rad. To Clear	Unit Wt. lb/kg
inch	mm			A	D	E	G	H	J	K	L	M	N	O	P		
1/2 9/16 5/8 11/16 3/4	20	ER-8 ER-9 ER-10 ER-11 ER-12 ER-204	2611 11614	1.8504 47	13/16 20.6	5/8 15.9	3/16 4.8	3/64 1.2	1 7/32 31.0	31/64 12.3	1 3/16 30.2	11/64 4.4	1 5/8 41.3	.094 2.39	2 1/16 52.4	.040 1.02	.56 .25
7/8 15/16 1	25	ER-14 ER-15 ER-16 ER-205	2801 12459	2.0472 52	55/64 21.8	3/4 19.1	7/32 5.6	3/64 1.2	1 3/8 34.9	39/64 15.5	1 3/8 34.9	13/64 5.2	1 55/64 47.2	.135 3.43	2 17/64 57.5	.040 1.02	.68 .31
1 1/16 1 1/8 1 3/16 1 1/4	30	ER-17 ER-18 ER-19 ER-20R ER-206	4381 19487	2.4409 62	7/8 22.2	7/8 22.2	7/32 5.6	1/16 1.6	1 1/2 38.1	11/16 17.5	1 19/32 40.5	7/32 5.6	2 5/32 54.8	.188 4.78	2 21/32 67.5	.040 1.02	.93 .42
1 1/4 1 5/16 1 3/8 1 7/16	35	ER-20 ER-21 ER-22 ER-23 ER-207	5782 25718	2.8364 72	1 25.4	15/16 23.8	1/4 6.4	1/16 1.6	1 11/16 42.9	3/4 19.1	1 55/64 47.2	7/32 5.6	2 17/32 64.3	.219 5.56	3 5/64 78.2	.040 1.02	1.37 .62
1 1/2 1 9/16	40	ER-24 ER-25 ER-208	5307 23606	3.1496 80	1 3/16 30.2	1 3/32 27.8	5/16 7.9	1/16 1.6	1 15/16 49.2	29/32 23.0	2 1/16 52.4	1/4 6.4	2 53/64 71.8	.203 5.16	3 13/32 86.5	.062 1.57	2 .91
1 5/8 1 11/16 1 3/4	45	ER-26 ER-27 ER-28 ER-209	7901 35144	3.3465 85	1 3/16 30.2	1 3/32 27.8	5/16 7.9	1/16 1.6	1 15/16 49.2	29/32 23.0	2 19/64 58.3	1/4 6.4	3 1/16 77.8	.203 5.16	3 19/32 91.3	.062 1.57	2.31 1.05
1 13/16 1 7/8 1 15/16 2	50	ER-29 ER-30 ER-31 ER-32R ER-210	7889 35090	3.5433 90	1 9/32 32.5	1 1/8 28.6	3/8 9.5	3/32 2.4	2 1/32 51.6	29/32 23.0	2 15/32 62.7	19/64 7.5	3 7/32 81.8	.188 4.78	3 25/32 96.0	.062 1.57	2.43 1.10
2 2 1/8 2 3/16	55	ER-32 ER-34 ER-35 ER-211	9752 43377	3.9370 100	1 5/16 33.3	1 3/16 30.2	3/8 9.5	3/32 2.4	2 3/16 55.6	31/32 24.6	2 23/32 69.1	19/64 7.5	3 9/16 90.5	.281 7.14	4 3/16 106.4	.080 2.03	3 1.36
2 1/4 2 3/8 2 7/16	60	ER-36 ER-38 ER-39 ER-212	11789 52437	4.3307 110	1 9/16 39.7	1 1/4 31.8	7/16 11.1	3/32 2.4	2 9/16 65.1	1 1/32 26.2	2 63/64 75.8	19/64 7.5	3 29/32 99.2	.375 9.53	4 37/64 116.3	.080 2.03	4 1.81
2 1/2 2 11/16	70	ER-40 ER-43 ER-214	13971 62143	4.9213 125	1 11/16 42.9	1 3/8 34.9	7/16 11.1	7/64 2.8	2 3/4 69.9	1 7/64 28.2	3 7/16 87.3	5/16 7.9	4 7/16 112.7	.375 9.53	5 9/32 134.1	.080 2.03	5.56 2.52
2 7/8 2 15/16	75	ER-46 ER-47 ER-215	14839 66004	5.1181 130	1 3/4 44.5	1 1/2 38.1	7/16 11.1	7/64 2.8	3 1/16 77.8	1 15/16 31.5	1 15/64 92.5	3/8 9.5	4 5/8 117.5	.563 14.30	5 7/16 138.1	.080 2.03	6.37 2.89
3 3 3/16	80	ER-48 ER-51 ER-216	17412 77449	5.5118 140	1 15/16 49.2	1 11/16 42.9	17/32 13.5	7/64 2.8	3 1/4 82.6	1 25/64 35.3	3 59/64 99.6	7/16 11.1	4 63/64 126.6	.469 11.91	5 13/16 147.6	.120 3.05	7.85 3.56
3 1/4 3 3/8 3 7/16		ER-52 ER-54 ER-55	18681 83093	5.9055 150	2 1/32 51.6	1 15/16 49.2	15/32 11.9	7/64 2.8	3 3/8 85.7	1 41/64 41.7	4 5/32 105.6	7/16 11.1	5 19/64 134.5	.375 9.53	6 9/32 159.5	.120 3.05	9.5 4.31
3 15/16 4		ER-63 ER-64	29905 133017	7.4803 190	2 11/16 68.3	2 1/2 63.5	3/4 19.1	1/8 3.2	4 5/8 117.5	2 5/32 54.8	5 11/64 131.4	11/16 17.5	6 21/32 169.1	.688 17.48	8 203.2	.120 3.05	22 9.98

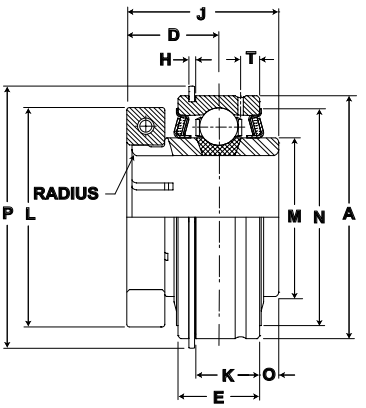
.
Felt seal standard. For contact seal add sufix “C” ER-16C.

Outside diameter may be oversized due to seal press fit.
Metric dimensions for reference only.

Performance Cylindrical OD Bearings (ER)

SEALMASTER®

Duty: Standard
Rolling Elements: Ball
Housing: Cylindrical OD Insert
Lock: SKWEZLOC Locking Collar
Seal: Felt
Optional Seal: Contact
Temperature: -20° to 220°F
Relube: Relube Through Outer Ring Groove



ER-T Cylindrical O.D. Bearing - SKWEZLOC Locking Collar - Inch

Bore Diameter inch	Bearing Insert No.	Basic Dynamic Rating lb/N	Dimensions inch / mm												Max. Rad. To Clear	Unit Wt. lb/kg
			A	D	E	H	J	K	L	M	N	O	P	T		
3/4	ER-12T	2611 11614	1.8504 47.0	7/8 19.8	5/8 15.9	3/64 1.2	1 9/32 32.5	31/64 12.3	1 3/4 44.5	1 3/16 30.2	1 5/8 41.3	.094 2.39	2 1/16 52.4	1/8 3.2	.04 1.02	.56 .25
1	ER-16T	2801 12459	2.0472 52.0	59/64 22.1	3/4 19.1	3/64 1.2	1 7/16 36.5	39/64 15.5	1 15/16 49.2	1 3/8 34.9	1 27/32 46.8	.135 3.43	2 17/64 57.5	13/64 5.2	.04 1.02	.68 .31
1 1/8 1 3/16 1 1/4	ER-18T ER-19T ER-20RT	4381 19487	2.4409 62.0	15/16 23.8	7/8 22.2	1/16 1.6	1 9/16 39.7	11/16 17.5	2 3/16 55.6	1 19/32 40.5	2 5/32 54.8	.188 4.78	2 21/32 67.5	7/32 5.6	.04 1.02	.93 .42
1 1/4	ER-20T	5782 25718	2.8346 72.0	1 1/16 27.0	15/16 23.8	1/16 1.6	1 3/4 44.5	3/4 19.1	2 7/16 61.9	1 55/64 47.2	2 17/32 64.3	.219 5.56	3 5/64 78.2	7/32 5.6	.04 1.02	1.37 .62
1 3/8 1 7/16	ER-22T ER-23T	5782 25718	2.8346 72.0	1 1/16 27.0	15/16 23.8	1/16 1.6	1 3/4 44.5	3/4 19.1	2 9/16 65.1	1 55/64 47.2	2 17/32 64.3	.219 5.56	3 5/64 78.2	7/32 5.6	.04 1.02	1.37 .62
1 1/2	ER-24T	7340 32648	3.1496 80.0	1 1/4 31.8	1 3/32 27.8	1/16 1.6	2 50.8	29/32 23.0	2 11/16 68.3	2 1/16 52.4	2 53/64 71.8	.203 5.16	3 13/32 86.5	1/4 6.4	.06 1.57	2.00 .91
1 5/8	ER-26T	7901 35144	3.3465 85.0	1 1/4 31.8	1 3/32 27.8	1/16 1.6	2 50.8	29/32 23.0	2 13/16 71.4	2 19/64 58.3	3 1/32 77.0	.203 5.16	3 19/32 91.3	1/4 6.4	.06 1.57	2.31 1.05
1 11/16 1 3/4	ER-27T ER-28T	7901 35144	3.3465 85.0	1 1/4 31.8	1 3/32 27.8	1/16 1.6	2 50.8	29/32 23.0	2 15/16 74.6	2 19/64 58.3	3 1/32 77.0	.203 5.16	3 19/32 91.3	1/4 6.4	.06 1.57	2.31 1.05
1 15/16	ER-31T	7889 35090	3.5433 90.0	1 11/32 34.1	1 1/8 28.6	3/32 2.4	2 3/32 53.2	29/32 23.0	3 3/8 85.7	2 15/32 62.7	3 7/32 81.8	.188 4.78	3 25/32 96.0	19/64 7.5	.06 1.57	2.43 1.10
2	ER-32T	9752 43377	3.9370 100.0	1 3/8 34.9	1 3/16 30.2	3/32 2.4	2 1/4 57.2	31/32 24.6	3 1/2 88.9	2 23/32 69.1	3 9/16 90.5	.281 7.14	4 3/16 106.4	19/64 7.5	.08 2.03	3.00 1.36
2 3/16	ER-35T	9752 43377	3.9370 100.0	1 3/8 34.9	1 3/16 30.2	3/32 2.4	2 1/4 57.2	31/32 24.6	3 5/8 92.1	2 23/32 69.1	3 9/16 90.5	.281 7.14	4 3/16 106.4	19/64 7.5	.08 2.03	3.00 1.36
2 1/4	ER-36T	11789 52437	4.3307 110.0	1 5/8 41.3	1 1/4 31.8	3/32 2.4	2 5/8 66.7	1 1/32 26.2	4 1/16 103.2	2 63/64 75.8	3 29/32 99.2	.375 9.53	4 37/64 116.3	19/64 7.5	.08 2.03	4.00 1.81
2 3/8 2 7/16	ER-38T ER-39T	11789 52437	4.3307 110.0	1 5/8 41.3	1 1/4 31.8	3/32 2.4	2 5/8 66.7	1 1/32 26.2	4 1/8 104.8	2 63/64 75.8	3 29/32 99.2	.375 9.53	4 37/64 116.3	19/64 7.5	.08 2.03	4.00 1.81

ER-T Cylindrical O.D. Bearing - SKWEZLOC Locking Collar - Metric - SKWEZ™

Bore Diameter mm	Bearing Insert No.	Basic Dynamic Rating N/lb	Dimensions mm / inch												Max. Rad. To Clear	Unit Wt. kg/lb
			A	D	E	L	H	J	K	M	N	O	P	T		
20	ER-204TMC	11614 2611	47.0 1.8504	19.8 7/8	15.9 5/8	44.5 1 3/4	1.2 3/64	32.5 1 9/32	12.3 31/64	30.2 1 3/16	41.3 1 5/8	2.39 .094	52.4 2 1/16	3.2 1/8	1.02 .04	.25 .56
25	ER-205TMC	12459 2801	52.0 2.0472	22.1 59/64	19.1 3/4	49.2 1 15/16	1.2 3/64	36.5 1 7/16	15.5 39/64	34.9 1 3/8	46.8 1 27/32	3.43 .135	57.5 2 17/64	5.2 13/64	1.02 .04	.31 .68
30	ER-206TMC	19487 4381	62.0 2.4409	23.8 15/16	22.2 7/8	55.6 2 3/16	1.6 1/16	39.7 1 9/16	17.5 11/16	40.5 1 19/32	54.8 2 5/32	4.75 .187	67.5 2 21/32	5.6 7/32	1.02 .04	.42 .93
35	ER-207TMC	25718 5782	72.0 2.8346	27.0 1 1/16	23.8 15/16	65.1 2 9/16	1.6 1/16	44.5 1 3/4	19.1 3/4	47.2 1 55/64	64.3 2 17/32	5.56 .219	78.2 3 5/64	5.6 7/32	1.02 .04	.62 1.37
40	ER-208TMC	32648 7340	80.0 3.1496	31.8 1 1/4	27.8 1 3/32	68.3 2 11/16	1.6 1/16	50.8 2	23.0 29/32	52.4 2 1/16	71.8 2 53/64	4.76 .188	86.5 3 13/32	6.4 1/4	1.57 .06	.91 2.00
45	ER-209TMC	35144 7901	85.0 3.3465	31.8 1 1/4	27.8 1 3/32	74.6 2 15/16	1.6 1/16	50.8 2	23.0 29/32	58.3 2 19/64	77.0 3 1/32	4.76 .188	91.3 3 19/32	6.4 1/4	1.57 .06	1.05 2.31
50	ER-210TMC	35090 7889	90.0 3.5433	34.1 1 11/32	28.6 1 1/8	85.7 3 3/8	2.4 3/32	53.2 2 3/32	23.0 29/32	62.7 2 15/32	81.8 3 7/32	4.78 .188	96.0 3 25/32	7.5 19/64	1.57 .06	1.10 2.43
55	ER-211TMC	43377 9752	100.0 3.9370	34.9 1 3/8	30.2 1 3/16	92.1 3 5/8	2.4 3/32	57.2 2 1/4	24.6 31/32	69.1 2 23/32	90.5 3 9/16	7.14 .281	106.4 4 3/16	7.5 19/64	2.03 .08	1.36 3.00
60	ER-212TMC	52437 11789	110.0 4.3307	41.3 1 5/8	31.8 1 1/4	104.8 4 1/8	2.4 3/32	66.7 2 5/8	26.2 1 1/32	75.8 2 63/64	99.2 3 29/32	9.53 .375	116.3 4 37/64	7.5 19/64	2.03 .08	1.81 4.00