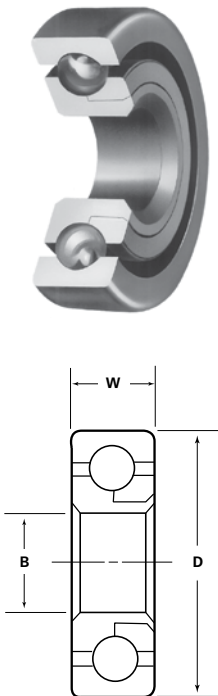


Kilian™ Single-Row Machine Race Ball Bearings

FOR APPLICATIONS WHERE HIGH STACK-UP TOLERANCES CAN CAUSE MISALIGNMENT

DESIGN AND OPERATIONAL SPECIFICATIONS

- Designed for light loads and speeds up to 1200 RPMs
- Full complement of precision steel balls in deep ball grooves
- Heat-treated races machined from steel bar stock to a controlled finish
- Thrust capacity in either direction is 50% of listed radial rating



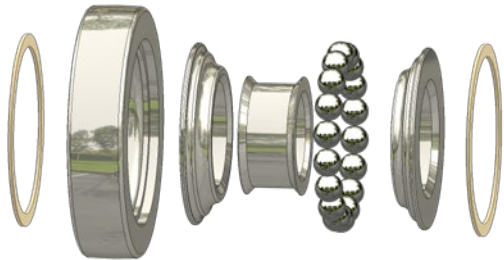
Bearing Number	Bore B	Outside Diameter D	Width W	Balls		Radial Load Rating at 600 RPM
	Tolerance	Tolerance	Tolerance	No.	Size	
	+0.005 to -0.000	+0.000 to -0.005	±0.005			
SR253	3/16	11/16	1/4	11	1/8	29
SR254	1/4	11/16	1/4	12	1/8	32
SR255	1/4	3/4	1/4	13	1/8	34
SR255-89	3/16	3/4	1/4	10	5/32	41
SR266	3/16	7/8	1/4	12	5/32	49
SR267	1/4	7/8	1/4	12	5/32	49
SR268	5/16	7/8	1/4	15	1/8	40
SR269	3/8	7/8	1/4	16	1/8	42
SR270	5/16	29/32	5/16	13	5/32	53
SR280-1	5/16	15/16	5/16	13	5/32	53
SR281	3/8	15/16	5/16	17	1/8	45
SR290	1/4	1	5/16	13	5/32	53
SR290-90	3/8	1	5/16	14	5/32	53
SR311	1/4	1-1/16	1/4	13	5/32	53
SR312	5/16	1-1/16	1/4	13	5/32	53
SR314	5/16	1-1/16	3/8	13	5/32	53
SR315	3/8	1-1/16	3/8	14	5/32	57
SR333	3/8	1-1/8	3/8	14	5/32	57
SR337	1/2	1-1/8	3/8	16	5/32	66
SR340-1	3/8	1-3/16	3/8	13	3/16	81
SR342	3/8	1-1/4	3/8	13	3/16	81
SR342-58	1/2	1-1/4	3/8	15	3/16	87
SR347	1/2	1-9/32	5/16	15	3/16	87
SR381	1/2	1-3/8	7/16	17	3/16	99
SR500	1/2	1-1/2	7/16	13	1/4	136
SR503	5/8	1-1/2	7/16	13	1/4	136
SR550	1/2	1-9/16	7/16	14	1/4	147
SR620	3/4	1-5/8	3/8	15	1/4	157

Kilian™ Machine Race Ball Bearings

MACHINE RACE BEARINGS VS. PRECISION GROUND BEARINGS

While many Single Row, Double Row, or Flange bearings may appear identical and fit the same application, subtle differences in design and materials impact their performance and longevity.

MACHINE RACE BEARINGS



- Optimized for sliding/rolling applications and high tolerance stack-ups
- Excels in low-speed, low-load conditions with axial forces and misalignment
- Features full complement ball design with wider tolerances for smooth operation
- Heat-treated/plated machine race options for corrosion resistance
- Customizable with grooves, nylon tires, and fasteners per application needs

MACHINE RACE APPLICATIONS

- RV slideouts and vehicle door systems
- Low-speed food/beverage machinery
- Sliding doors (garage, truck, overhead)
- Harsh environment conveyors (dry cleaning, etc.)
- Material handling and pallet storage systems

PRECISION GROUND BEARINGS



- Engineered for high-speed rotation in motors and gearboxes
- Requires precision manufacturing with tight tolerances
- Follows standardized international part numbering
- Limited corrosion resistance due to plating/heat treatment restrictions
- Sensitive to misalignment from precise internal geometry

PRECISION BEARING APPLICATIONS

- High-RPM engines and gearboxes
- Precision machinery requiring tight tolerances
- Heavy-load equipment

VS.

Kilian provides both Machine Race and Precision bearings, each optimized for specific applications. Using the wrong bearing can lead to poor performance and premature failure. Contact our experts at 1-315-432-0700 ext. 7432 or visit kilianbearings.com to ensure you select the right solution for your needs.

KILIAN™

Regal Rexnord
regalrexnord.com

www.kilianbearings.com | 315-432-0700
1728 Burnet Avenue
Syracuse, NY 13206 - USA

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