

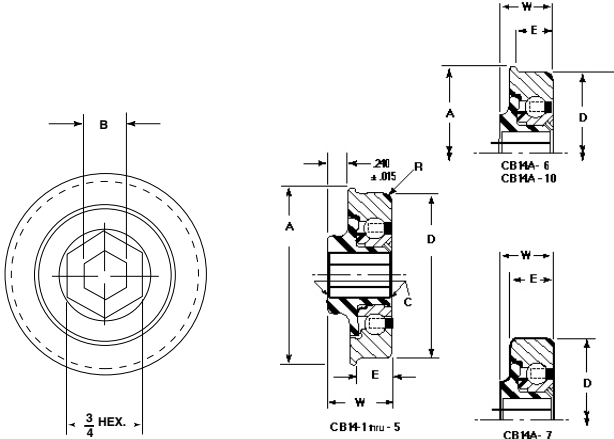
# Precision Machined Standard Bearings

## CB14 Conveyor Bearings

### Design and Operational Specifications:



- Meet the speed and reliability requirements of driven conveyor rolls
- Significantly reduce noise level of the conveyor system
- Precision machined from quality steel
- Feature flanged O.D. for ease of mounting
- Both rings are of one-piece construction
- Nylon ball retainer permits operation up to 2000 RPM
- Unique nylon adapter in bore to accommodate standard 7/16 in. hex shafting and dampen noise normally transmitted to the conveyor frame



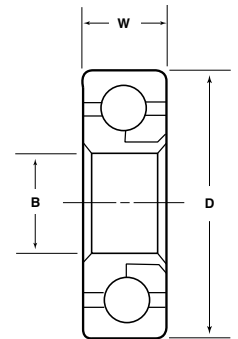
Bearing Number	Hex Bore B	Outside Diameter D	Flange A ±.015	Width		C	R
				W ±.015	E ±.015		
in.	in.	in.	in.	in.	in.	in.	in.
CB14-1	.466/.456	1.469/1.464	1.537	.712	.372	.040/.020	3/16
CB14-2	.466/.456	1.503/1.498	1.574	.712	.410	.040/.020	5/64
CB14-3	.466/.456	1.529/1.524	1.600	.712	.410	.040/.020	5/64
CB14-4	.466/.456	1.880/1.875	1.951	.712	.410	.040/.020	5/64
CB14-5	.466/.456	1.603/1.598	1.675	.712	.410	.040/.020	5/64
CB14A-6	.466/.456	1.712/1.707	1.783	.520	.410	.040/.020	5/64
CB14A-7	.466/.456	1.712/1.707	—	.520	.472	.040/.020	5/64
CB14A-10	.466/.456	1.628/1.623	1.700	.520	.410	.040/.020	5/64

## Single Row Ball Bearings

### Design and Operational Specifications:



- Designed for light loads and speeds up to 1200 RPM
- 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



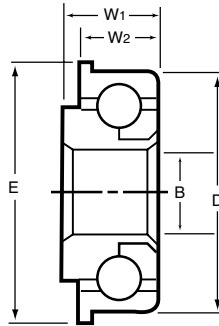
Bearing Number	Bore B	Outside Diameter D	Width W	Balls		Radial Load Rating at 600 RPM
				No.	Size	
Tolerance +.005 to -.000	Tolerance +.000 to -.005	Tolerance ±.005				
in.	in.	in.	in.	in.	lbs.	
SR-150	1/8	3/8	5/32	13	1/16	5
SR-253	3/16	11/16	1/4	11	1/8	29
SR-254	1/4	11/16	1/4	12	1/8	32
SR-255	1/4	3/4	1/4	13	1/8	34
SR-255-89	3/16	3/4	1/4	10	5/32	41
SR-266	3/16	7/8	1/4	12	5/32	49
SR-267	1/4	7/8	1/4	12	5/32	49
SR-268	5/16	7/8	1/4	15	1/8	40
SR-269	3/8	7/8	1/4	16	1/8	42
SR-270	5/16	29/32	5/16	13	5/32	53
SR-280-1	5/16	15/16	5/16	13	5/32	53
SR-281	3/8	15/16	5/16	17	1/8	45
SR-290	1/4	1	5/16	13	5/32	53
SR-311	1/4	11/16	1/4	13	5/32	53
SR-312	5/16	11/16	1/4	13	5/32	53
SR-314	5/16	11/16	3/8	13	5/32	53
SR-315	3/8	11/16	3/8	14	5/32	57
SR-333	3/8	11/8	3/8	14	5/32	57
SR-337	1/2	11/8	3/8	16	5/32	66
SR-340-1	3/8	13/16	3/8	13	3/16	81
SR-342	3/8	11/4	3/8	13	3/16	81
SR-342-58	1/2	11/4	3/8	15	3/16	87
SR-347	1/2	19/32	5/16	15	3/16	87
SR-381	1/2	13/8	7/16	17	3/16	99
SR-500	1/2	11/2	7/16	13	1/4	136
SR-503	5/8	11/2	7/16	13	1/4	136
SR-550	1/2	19/16	7/16	14	1/4	147
SR-620	3/4	15/8	3/8	15	1/4	157

# Precision Machined Standard Bearings

## Flange-Type Ball Bearings

### Design and Operational Specifications:

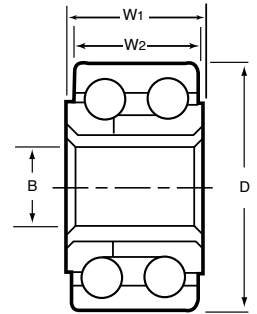
- Designed for light loads and speeds up to 1200 RPM
- Mount directly into wheel hubs, pulleys and conveyor rollers
- Full complement of precision steel balls in deep ball grooves
- Heat-treated races machined from steel bar stock to a controlled finish
- Thrust capacity in either direction is 50% of listed radial rating



## Double Row Ball Bearings

### Design and Operational Specifications:

- Designed for light loads and speeds up to 1200 RPM
- Double row of full complement precision steel balls in deep ball grooves for increased stability
- Heat-treated races machined from steel bar stock to a controlled finish
- Thrust capacity in either direction is 33% of listed radial rating



Bearing Number	Bore B	Outside Diameter D	Width W <sub>1</sub>	Width w <sub>2</sub>	E	Balls		Radial Load Rating at 600 RPM
	Tolerance +.005 to -.000	Tolerance +.005 to -.000	Tolerance ±.005	Tolerance ±.005		No.	Size	lbs.
F-150	1/4	11/16	5/16	1/4	13/16	12	1/8	32
F-155	1/4	3/4	5/16	1/4	7/8	12	1/8	32
F-160	1/4	13/16	5/16	1/4	29/32	13	1/8	34
F-165	5/16	7/8	5/16	1/4	1	15	1/8	40
F-175-1	1/4	29/32	7/16	3/8	1	13	5/32	53
F-175-2	5/16	29/32	7/16	3/8	1	13	5/32	53
F-175-3	3/8	29/32	7/16	3/8	1	16	1/8	42
F-175-4	7/16	29/32	7/16	3/8	1	17	1/8	45
F-200-1	7/16	29/32	7/16	11/32	11/16	17	1/8	45
F-225	3/8	1	7/16	3/8	11/8	14	5/32	57
F-250	7/16	11/16	7/16	3/8	13/16	15	5/32	61
F-250-2	3/8	11/16	7/16	3/8	13/16	15	5/32	61
F-300	1/2	11/8	1/2	3/8	11/4	16	5/32	65
F-300-19	3/8	11/8	1/2	3/8	11/4	16	5/32	65
F-310	1/2	13/16	1/2	3/8	15/16	16	5/32	65
F-325	9/16	11/4	1/2	7/16	13/8	18	5/32	74
F-350-11	3/8	13/8	1/2	7/16	11/2	11	1/4	115
F-350-12	1/2	13/8	1/2	7/16	11/2	12	1/4	125
F-350-13	5/8	13/8	1/2	7/16	11/2	17	3/16	99
F-350-89	3/4	13/8	7/16	3/8	11/2	22	5/32	90
F-500	11/16	11/2	5/8	7/16	15/8	18	3/16	110
F-550	1/2	19/16	21/32	17/32	111/16	12	1/4	125
F-600-3	3/4	15/8	9/16	1/2	13/4	15	1/4	157
F-700	3/4	111/16	9/16	1/2	113/16	15	1/4	157
F-750	3/4	13/4	5/8	9/16	17/8	15	1/4	157
F-850	5/8	17/8	5/8	9/16	2	17	1/4	178
F-1000	7/8	2	5/8	9/16	21/8	19	1/4	200
F-1000-4	1	2	5/8	9/16	21/8	19	1/4	200
F-1100	11/4	21/8	5/8	9/16	21/4	21	1/4	220

Bearing Number	Bore B	Outside Diameter D	Width W <sub>1</sub>	Width W <sub>2</sub>	Balls		Radial Rating at 600 RPM
	Tolerance +.005 to -.000	Tolerance +.000 to -.005	Tolerance ±.005	Tolerance ±.005	No.	Size	lbs.
D-2253	3/16	11/16	7/16	13/32	22	1/8	43
D-2254	1/4	11/16	7/16	13/32	24	1/8	48
D-2255	1/4	3/4	7/16	13/32	24	1/8	48
D-2267	1/4	7/8	7/16	13/32	24	5/32	73
D-2269	3/8	7/8	7/16	13/32	32	1/8	63
D-2290	3/8	1	7/16	13/32	28	5/32	85
D-2337	1/2	11/8	9/16	17/32	32	5/32	99
D-2383	5/8	13/8	5/8	19/32	34	3/16	148
D-2500	1/2	11/2	3/4	23/32	26	1/4	204
D-3010	3/4	2	7/8	27/32	38	1/4	300

## Load Rating Factors for Single, Double, and Flange-Type Standard Ball Bearings

Radial load ratings given for standard size bearings are based on a speed of 600 Rpm. For radial load ratings at speeds other than 600 RPM, multiply the listed rating by the appropriate factor indicated in the table to the right.

Table of Speed/Radial Load Rating Factors

Speed (RPM)	Factor
50	3.6
100	2.7
300	1.4
900	.8
1000	.7
1200	.6