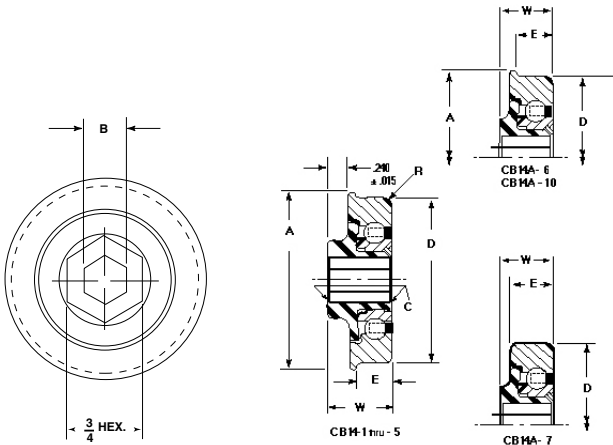


# Precision Machined Standard Bearings

## 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

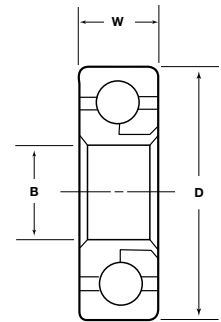


Bearing Number	Hex Bore	Outside Diameter D	Flange A ±.015	Width W		C	R
	B			W	E		
	in.	in.	in.	in.	in.	in.	in.
CB14-1	.466/.456	1.469/1.464	1.537	.712	.372	.040/.020	3/16
CB14-2	.466/.456	1.503/1.498	1.574	.712	.410	.040/.020	5/64
CB14-3	.466/.456	1.529/1.524	1.600	.712	.410	.040/.020	5/64
CB14-4	.466/.456	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 No.	Radial Load Rating at 600 RPM	
					Size	lbs
Tolerance		Tolerance	Tolerance			
+.005 to -.000		+.000 to -.005	±.005			
in.		in.	in.	in.	lbs	
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

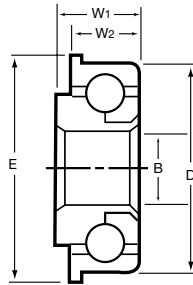
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# Precision Machined Standard Bearings

## Flange-Type Ball Bearings

### Design and Operational Specifications:

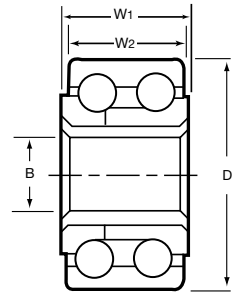
- Designed for light loads and speeds up to 1200 RPM
- Mount directly into wheel hubs, pulleys and conveyor rollers
- Full complement of precision steel balls in deep ball grooves
- Heat-treated races machined from steel bar stock to a controlled finish
- Thrust capacity in either direction is 50% of 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			No.	Size	
	in.	in.	in.	in.	in.	in.	lbs	
F150	1/4	11/16	5/16	1/4	13/16	12	1/8	32
F155	1/4	3/4	5/16	1/4	7/8	12	1/8	32
F160	1/4	13/16	5/16	1/4	29/32	13	1/8	34
F165	5/16	7/8	5/16	1/4	1	15	1/8	40
F175-1	1/4	29/32	7/16	3/8	1	13	5/32	53
F175-2	5/16	29/32	7/16	3/8	1	13	5/32	53
F175-3	3/8	29/32	7/16	3/8	1	16	1/8	42
F175-4	7/16	29/32	7/16	3/8	1	17	1/8	45
F200-1	7/16	29/32	7/16	11/32	1-1/16	17	1/8	45
F225	3/8	1	7/16	3/8	1-1/8	14	5/32	57
F250	7/16	1-1/16	7/16	3/8	1-3/16	15	5/32	61
F250-2	3/8	1-1/16	7/16	3/8	1-3/16	15	5/32	61
F300	1/2	1-1/8	1/2	3/8	1-1/4	16	5/32	65
F300-19	3/8	1-1/8	1/2	3/8	1-1/4	16	5/32	65
F310	1/2	1-3/16	1/2	3/8	1-5/16	16	5/32	65
F325	9/16	1-1/4	1/2	7/16	1-3/8	18	5/32	74
F350-11	3/8	1-3/8	1/2	7/16	1-1/2	11	1/4	115
F350-12	1/2	1-3/8	1/2	7/16	1-1/2	12	1/4	125
F350-13	5/8	1-3/8	1/2	7/16	1-1/2	17	3/16	99
F350-89	3/4	1-3/8	7/16	3/8	1-1/2	22	5/32	90
F500	11/16	1-1/2	5/8	7/16	1-5/8	18	3/16	110
F550	1/2	1-9/16	21/32	17/32	1-11/16	12	1/4	125
F600-3	3/4	1-5/8	9/16	1/2	1-3/4	15	1/4	157
F700	3/4	1-11/16	9/16	1/2	1-13/16	15	1/4	157
F750	3/4	1-3/4	5/8	9/16	1-7/8	15	1/4	157
F750-21	1/2	1-3/4	5/8	9/16	1-7/8	15	1/4	157
F850	5/8	1-7/8	5/8	9/16	2	17	1/4	178
F1000	7/8	2	5/8	9/16	2-1/8	19	1/4	200
F1000-4	1	2	5/8	9/16	2-1/8	19	1/4	200
F1100	11/4	2-1/8	5/8	9/16	2-1/4	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			No.	Size
	in.	in.	in.	in.	in.	lbs	
D2253	3/16	11/16	7/16	13/32	22	1/8	43
D2254	1/4	11/16	7/16	13/32	24	1/8	48
D2255	1/4	3/4	7/16	13/32	24	1/8	48
D2267	1/4	7/8	7/16	13/32	24	5/32	73
D2269	3/8	7/8	7/16	13/32	32	1/8	63
D2290	3/8	1	7/16	13/32	28	5/32	85
D2337	1/2	1-1/8	9/16	17/32	32	5/32	99
D2383	5/8	1-3/8	5/8	19/32	34	3/16	148
D2500	1/2	1-1/2	3/4	23/32	26	1/4	204
D3010	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

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