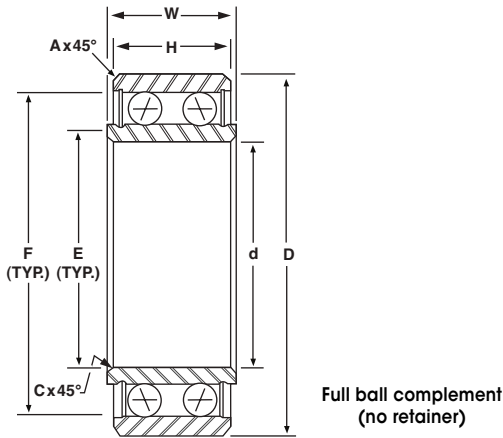




B5500WZZ Series



Notes:

1. Rings and balls are manufactured from premium quality AISI 52100 chrome steel.
2. Operating temperature range: -65 to +250 °F.
3. All bearings include removable PTFE seals.
4. Bearings are lubricated with MIL-PRF-81322 grease, 80% minimum fill, unless otherwise specified.
5. Contact angles are convergent (/ \).
6. External surfaces (except bore) are cadmium plated per AMS-QQ-P-416. All dimensions apply after plating.
7. Custom sizes, materials, tolerances, radial internal clearances, lubrication, plating, etc., are available upon request.
8. See "Airframe Part Numbering System" on page 5 for correct NHBB nomenclature.
9. All dimensions are in inches, unless otherwise specified.

Refer to the Qualifications and Manufacturing Schedule for a current list of the Precision Division's AS7949 qualifications and manufacturing capabilities.

B5500WZZ

NHBB BASIC P/N	BORE d	O.D. D	RING WIDTH		BALL COMPLEMENT		RING SHOULDER DIAMETER		RING CHAMFER X 45°		LOAD RATINGS (LBS.)				APPROX. WEIGHT LBS.
			OUTER H	INNER W	NO.	DIA.	OUTER F	INNER E	STATIC		DYNAMIC RADIAL* RING ROTATION				
									RADIAL	THRUST	INNER	OUTER			
	+0.0000 -0.0005	+0.0000 -0.0005	+0.000 -0.005	+0.000 -0.005			REF.	REF.	+0.020 -0.000	+0.020 -0.000	RADIAL LIMIT	AXIAL LIMIT			
B5538WZZ	.6250	1.0625	.500	.562	40	1/8	.883	.759	.015	.015	6250	2060	3040	2790	.04
B5539WZZ	.7500	1.1875	.500	.562	46	1/8	1.002	.878	.015	.015	7190	2370	3130	2910	.06
B5540WZZ	.8750	1.3125	.500	.562	52	1/8	1.121	.997	.015	.015	8120	2680	3210	3010	.08
B5541WZZ	1.0625	1.5000	.500	.562	62	1/8	1.320	1.195	.015	.015	9690	3200	3310	3130	.10
B5542WZZ	1.3125	1.7500	.500	.562	74	1/8	⁽³⁾	1.430	.015	.015	11600	3820	3400	3250	.14
B5543WZZ	1.5625	2.0000	.500	.562	86	1/8	1.800	1.675	.015	.015	13400	4430	3470	3330	.16
B5544WZZ	1.8125 ⁽¹⁾	2.2500 ⁽²⁾	.500	.562	100	1/8	2.075	1.951	.015	.015	15600	5160	3520	3390	.18
B5545WZZ	2.0625 ⁽¹⁾	2.6250 ⁽²⁾	.500	.562	116	1/8	⁽³⁾	2.265	.015	.015	18100	5980	3560	3460	.26
B5546WZZ	2.3125 ⁽¹⁾	2.8750 ⁽²⁾	.500	.562	128	1/8	⁽³⁾	2.505	.015	.015	20000	6600	3680	3490	.30

Radial internal clearance: .0000 to .0010

⁽¹⁾ Bore (d) tolerance: +.0000 / -.0008

⁽²⁾ O.D. (D) tolerance: +.0000 / -.0007

⁽³⁾ Contact factory.

+ Dynamic radial load ratings are for operation up to 250 °F. Reduce load ratings by 20% for 250 to 350 °F operation. Dynamic radial load ratings are based on an average life of 10,000 complete 90° cycles.