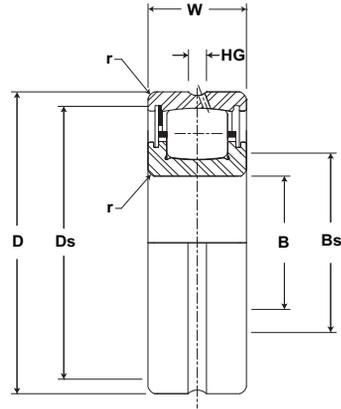


McGILL® SPHERE-ROL® Spherical Bearings



- Basic Construction Type:** 22300 Series Spherical Bearing With Non-Separable Inner Ring
- Rolling Elements:** Separated Spherical Rolling Elements
- Bearing Material:** Bearing Quality Steel
- Seal Type:** NYLAPLATE or LAMBDA
- Lubrication:** Sealed Bearings: Polyurea thickened NLGI 2 EP Grease.
Unsealed Bearings: Corrosion Preventive Oil



Sphere-Rol Bearings



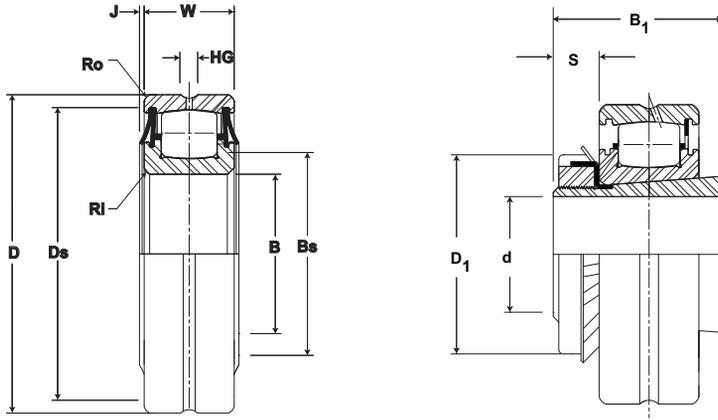
SB 22300 (continued)

Part No.	B		D		W		Bs	Ds	HG	J	r	Limiting Speed (In Oil)	BDR	Bearing Weight
	Bore Diameter		Outside Diameter		Width		Min Shoulder Diameter Inner	Min Shoulder Diameter Outer	Annular Lub Groove	Lambda Seal Minimum Clearance	Maximum radius or fillet to clear		Basic Dynamic Rating	
	Nom.	Tol.	Nom.	Tol.	Nom.	Tol.	Ref	Ref	W33	Ref	Ref	RPM*	N/lb	kg lb
SB-22317	85.000	+0/-.020	180.000	+0/-.025	60.00	+0/-.20	99	163	8	3.3	2.5	2500	423,000	7.35
	3.3465	+0/-.0008	7.0866	+0/-.0010	2.362	+0/-.008	3.9	6.4	.3	.13	.10		95,100	16.20
SB-22318	90.000	+0/-.020	190.000	+0/-.030	64.00	+0/-.20	104	173	10	3.3	2.5	2350	437,680	8.71
	3.5433	+0/-.0008	7.4803	+0/-.0012	2.520	+0/-.008	4.1	6.8	.4	.13	.10		98,400	19.20
SB-22319	95.000	+0/-.020	200.000	+0/-.030	67.00	+0/-.20	112	180	10	4.1	2.5	2200	486,610	10.29
	3.7402	+0/-.0008	7.874	+0/-.0012	2.638	+0/-.008	4.4	7.1	.4	.16	.10		109,400	22.70
SB-22320	100.000	+0/-.020	215.000	+0/-.030	73.00	+0/-.20	117	196	10	4.8	2.5	2050	572,900	12.88
	3.937	+0/-.0008	8.4646	+0/-.0012	2.874	+0/-.008	4.6	7.7	.4	.19	.10		128,800	28.40
SB-22322	110.000	+0/-.203	240.000	+0/-.030	80.00	+0/-.03	130	218	13	4.8	2.5	1800	805,980	19.37
	4.3307	+0/-.0080	9.4488	+0/-.0012	3.150	+0/-.800	5.1	8.6	.5	.19	.10		181,200	42.71

Add K to base number indicate K bore option
 Add W22 for select OD
 All bearings are supplied with W33 option unless otherwise specified
 Refers to oil lubrication and moderate load, use 50% of value for grease lubrication.
 Complete adapter number indicated adapter sleeve, locknut, and washer, for components refer to S=sleeve, N= lock Nut, W= lock washer
 For Expansion type bearing add E suffix immediately after diametrical clearance specification per nomenclature diagram.
 For Sealing options see page D-8
 Outside diameter may be oversized, due to internal retaining ring

Metric dimensions for reference only.
 Not all parts are available from stock. Please contact customer service for availability (800) 626-2120.
 For more information on bearing capabilities outside of our standard offering, please contact Application Engineering (800) 626-2093.

SPHERE-ROL® Spherical Bearings **McGILL**®



SB 22300 (continued)

Part No.	Straight Bore Internal Radial Clearance								Taper (K) Bore Internal Radial Clearance (1" in 12" on Diameter)								Optional Adapter Dimensions				
	C2		Standard		C3		C4		C2		Standard		C3		C4		Adapter No.	Adapter Shaft Dimension	B1	S	D1
	mm inch		mm inch		mm inch		mm inch		mm inch		mm inch		mm inch		mm inch			mm inch	mm inch		
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	(Ref)	(Ref)	(Ref)	(Ref)	
SB-22317	.0356	.0635	.0991	.1346	.1803	.0508	.0813	.1118	.1448	.1905	SNW 117	13.1	14.7	3.1	19.6						
	.0014	.0025	.0039	.0053	.0071	.0020	.0032	.0044	.0057	.0075		2.94	3.31	.70	4.41						
SB-22318	.0356	.0635	.0991	.1346	.1803	.0508	.0813	.1118	.1448	.1905	SNW 118	14.2	15.8	3.5	20.7						
	.0014	.0025	.0039	.0053	.0071	.0020	.0032	.0044	.0057	.0075		3.19	3.55	.78	4.66						
SB-22319	.0356	.0635	.0991	.1346	.1803	.0508	.0813	.1118	.1448	.1905	-	-	-	-	-						
	.0014	.0025	.0039	.0053	.0071	.0020	.0032	.0044	.0057	.0075		-	-	-	-						
SB-22320	.0432	.0787	.1219	.1626	.2108	.0635	.0991	.1346	.1753	.2261	SNW 120	15.3	17.7	3.7	23.1						
	.0017	.0031	.0048	.0064	.0083	.0025	.0039	.0053	.0069	.0089		3.44	3.97	.84	5.19						
SB-22322	.0432	.0787	.1219	.1626	.2108	.0635	.0991	.1346	.1753	.2261	SNW 122	17.5	20.9	4.0	25.4						
	.0017	.0031	.0048	.0064	.0083	.0025	.0039	.0053	.0069	.0089		3.94	4.69	.91	5.72						