

Ancillary Bearings

IRR

INNER RING RACES



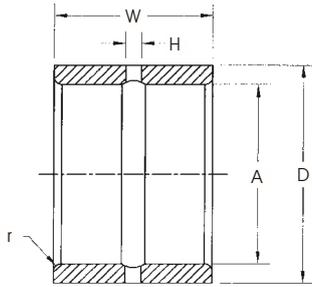
General Information

SMITH IRR Inner Ring Races are hardened and ground and are used as bushings or sleeves. Typical material is **52100 Bearing Steel**. They are complete with radial oil holes and an annular lubrication groove. Consult our Engineering Department for special configurations, sizes and materials.

Dimensional Data (inches)

SMITH Bearing® Number	A Bore Diameter I.D.		D Outside Diameter		W Width +.000 -.005	H Hole Diameter	r Max Fillet for Shaft
	Nominal	Tolerance +0.0000	Nominal	Tolerance +0.0000			
IRR-3/8	.3750	-0.0004	.6245	-0.0004	1.010	3/32	.025
IRR-3/8-1	.3750	-0.0004	.6245	-0.0004	.760	3/32	.025
IRR-7/16	.4375	-0.0004	.6245	-0.0004	.760	3/32	.025
IRR-1/2-1	.5000	-0.0004	.7493	-0.0005	1.010	1/8	.040
IRR-1/2	.5000	-0.0004	.7493	-0.0005	.760	1/8	.040
IRR-9/16	.5625	-0.0004	.7493	-0.0005	.760	1/8	.040
IRR-5/8-1	.6250	-0.0004	.8743	-0.0005	1.010	1/8	.040
IRR-5/8	.6250	-0.0004	.8743	-0.0005	.760	1/8	.040
IRR-11/16	.6875	-0.0004	.8743	-0.0005	.760	1/8	.040
IRR-3/4	.7500	-0.0004	.9993	-0.0005	1.010	1/8	.040
IRR-3/4-3	.7500	-0.0004	.9993	-0.0005	.760	1/8	.040
IRR-13/16	.8125	-0.0005	.9993	-0.0005	1.010	1/8	.040
IRR-13/16-2	.8125	-0.0005	.9993	-0.0005	.760	1/8	.040
IRR-7/8-1	.8750	-0.0005	1.1241	-0.0005	1.260	1/8	.040
IRR-7/8	.8750	-0.0005	1.1241	-0.0005	1.010	1/8	.040
IRR-15/16-1	.9375	-0.0005	1.1241	-0.0005	1.260	1/8	.040
IRR-15/16	.9375	-0.0005	1.1241	-0.0005	1.010	1/8	.040
IRR-1-2	1.0000	-0.0005	1.2491	-0.0006	1.260	1/8	.040
IRR-1	1.0000	-0.0005	1.2491	-0.0006	1.010	1/8	.040
IRR-1 1/16	1.0625	-0.0005	1.3741	-0.0006	1.260	1/8	.040
IRR-1 1/8-2	1.1250	-0.0005	1.3741	-0.0006	1.260	1/8	.040
IRR-1 1/8	1.1250	-0.0005	1.3741	-0.0006	1.010	1/8	.040
IRR-1 3/16	1.1875	-0.0005	1.4990	-0.0006	1.260	1/8	.060
IRR-1 1/4	1.2500	-0.0005	1.4990	-0.0006	1.260	1/8	.060
IRR-1 1/4-4	1.2500	-0.0005	1.4990	-0.0006	1.010	1/8	.060
IRR-1 5/16	1.3125	-0.0005	1.6240	-0.0006	1.260	1/8	.060
IRR-1 5/16-1	1.3125	-0.0005	1.6240	-0.0006	1.010	1/8	.060
IRR-1 3/8-2	1.3750	-0.0005	1.7490	-0.0006	1.260	1/8	.060
IRR-1 3/8	1.3750	-0.0005	1.6240	-0.0006	1.260	1/8	.060
IRR-1 7/16	1.4375	-0.0005	1.7490	-0.0006	1.260	1/8	.060
IRR-1 1/2	1.5000	-0.0005	1.7490	-0.0006	1.260	1/8	.060
IRR-1 1/2-1	1.5000	-0.0005	1.7490	-0.0006	1.010	1/8	.060
IRR-1 9/16-1	1.5625	-0.0005	1.9989	-0.0007	1.260	1/8	.060
IRR-1 9/16	1.5625	-0.0005	1.8740	-0.0006	1.260	1/8	.060
IRR-1 5/8	1.6250	-0.0005	1.9989	-0.0007	1.260	1/8	.060
IRR-1 5/8-3	1.6250	-0.0005	1.9364	-0.0007	1.260	1/8	.060
IRR-1 5/8-1	1.6250	-0.0005	1.9989	-0.0007	1.010	1/8	.060
IRR-1 11/16	1.6875	-0.0005	1.9989	-0.0007	1.260	1/8	.060
IRR-1 3/4	1.7500	-0.0005	2.2489	-0.0007	1.760	3/16	.060

Ancillary Bearings



IRR

INNER RING RACES

(continued)

Dimensional Data (inches)

SMITH Bearing® Number	A Bore Diameter I.D.		D Outside Diameter		W Width +0.000 -0.005	H Hole Diameter	r Max Fillet for Shaft
	Nominal	Tolerance +0.0000	Nominal	Tolerance +0.0000			
IRR-1 ³ / ₄ -2	1.7500	-0.0005	2.2489	-0.0007	1.510	3/16	.060
IRR-1 ⁷ / ₈	1.8750	-0.0005	2.2489	-0.0007	1.760	3/16	.060
IRR-1 ⁵ / ₁₆	1.9375	-0.0005	2.4989	-0.0007	1.760	3/16	.080
IRR-2	2.0000	-0.0005	2.4989	-0.0007	1.760	3/16	.080
IRR-2-1	2.0000	-0.0005	2.4989	-0.0007	1.510	3/16	.080
IRR-2 ¹ / ₈	2.1250	-0.0006	2.4989	-0.0007	1.760	3/16	.080
IRR-2 ³ / ₁₆	2.1875	-0.0006	2.7489	-0.0007	1.760	3/16	.080
IRR-2 ¹ / ₄	2.2500	-0.0006	2.7489	-0.0007	1.760	3/16	.080
IRR-2 ¹ / ₄ -1	2.2500	-0.0006	2.7489	-0.0007	1.510	3/16	.080
IRR-2 ³ / ₈	2.3750	-0.0006	2.9989	-0.0007	1.760	3/16	.080
IRR-2 ⁷ / ₁₆	2.4375	-0.0006	2.9989	-0.0007	1.760	3/16	.080
IRR-2 ¹ / ₂	2.2500	-0.0006	2.9989	-0.0007	1.760	3/16	.080
IRR-2 ¹ / ₂ -1	2.2500	-0.0006	2.9989	-0.0007	1.510	3/16	.080
IRR-2 ⁵ / ₈	2.6250	-0.0006	3.2487	-0.0009	1.760	3/16	.080
IRR-2 ³ / ₄	2.7500	-0.0006	3.2487	-0.0009	1.760	3/16	.080
IRR-2 ⁷ / ₈	2.8750	-0.0006	3.4987	-0.0009	2.010	1/4	.080
IRR-2 ¹⁵ / ₁₆	2.9375	-0.0006	3.4987	-0.0009	2.010	1/4	.080
IRR-3	3.0000	-0.0006	3.4987	-0.0009	2.010	1/4	.080
IRR-3-1	3.0000	-0.0006	3.4987	-0.0009	1.760	1/4	.080
IRR-3 ¹ / ₈	3.1250	-0.0006	3.7487	-0.0009	2.010	1/4	.100
IRR-3 ¹ / ₄	3.2500	-0.0006	3.7487	-0.0009	2.010	1/4	.100
IRR-3 ³ / ₈	3.3750	-0.0008	3.9985	-0.0009	2.010	1/4	.100
IRR-3 ¹ / ₂	3.5000	-0.0008	3.9985	-0.0009	2.010	1/4	.100
IRR-3 ⁵ / ₈	3.6250	-0.0008	4.2485	-0.0009	2.010	1/4	.100
IRR-3 ³ / ₄	3.7500	-0.0008	4.2485	-0.0009	2.010	1/4	.100
IRR-3 ⁷ / ₈	3.8750	-0.0008	4.4985	-0.0009	2.260	1/4	.100
IRR-4	4.0000	-0.0008	4.9985	-0.0010	2.260	1/4	.100
IRR-4 ¹ / ₄	4.2500	-0.0008	4.9985	-0.0010	2.260	1/4	.100
IRR-4 ¹ / ₂	4.5000	-0.0008	5.4985	-0.0010	3.015	1/4	.100
IRR-4 ¹ / ₂ -1	4.5000	-0.0008	5.4985	-0.0010	2.515	1/4	.100
IRR-5	5.0000	-0.0010	5.9983	-0.0010	3.015	5/16	.120
IRR-5-1	5.0000	-0.0010	5.9983	-0.0010	2.515	5/16	.120
IRR-5 ¹ / ₂	5.5000	-0.0010	6.4983	-0.0010	3.015	5/16	.120
IRR-5 ¹ / ₂ -1	5.5000	-0.0010	6.4983	-0.0010	2.515	5/16	.120
IRR-6	6.0000	-0.0010	7.2481	-0.0012	3.015	5/16	.120
IRR-6 ¹ / ₂	6.5000	-0.0010	7.7481	-0.0012	3.015	5/16	.120
IRR-7	7.0000	-0.0010	8.2481	-0.0012	3.015	5/16	.120
IRR-7 ¹ / ₂	7.5000	-0.0012	8.7480	-0.0012	3.015	5/16	.160
IRR-8	8.0000	-0.0012	9.2480	-0.0012	3.015	5/16	.160

I N T E R C H A N G E T A B L E S

IRR Inner Ring Races

INTERCHANGE Inner Ring Races

SMITH®	McGill	RBC	Torrington	INA
IRR-3/8-1	MI-6-N		IR-061012	PI-061012
IRR-3/8	MI-6			
IRR-7/16	MI-7-N			
IRR-1/2	MI-8-N	IR-7153	IR-081212	PI-081212
IRR-1/2-1	MI-8	IR-7154	IR-081216	PI-081216
IRR-9/16	MI-9-N	IR-7153-C		
IRR-5/8	MI-10-N	IR-7173	IR-101412	PI-101412
IRR-5/8-1	MI-10	IR-7174	IR-101416	PI-101416
IRR-11/16	MI-11-N	IR-7173-C	IR-111412	
IRR-3/4-3	MI-12-N	IR-7193	IR-121612	PI-121612
IRR-3/4	MI-12	IR-7194	IR-121616	PI-121616
IRR-13/16-2	MI-13-N			
IRR-13/16	MI-13	IR-7194-C	IR-131616	
IRR-7/8	MI-14-N	IR-7214	IR-141816	PI-141816
IRR-7/8-1	MI-14	IR-7215	IR-141820	PI-141820
IRR-15/16	MI-15-N		IR-151816	
IRR-15/16-1	MI-15	IR-7215-C	IR-151820	
IRR-1	MI-16-N	IR-7234	IR-162016	PI-162016
IRR-1-2	MI-16	IR-7235	IR-162020	PI-162020
IRR-11/16	MI-17	IR-7255-D		
IRR-11/8-2	MI-18-N	IR-7254	IR-182216	PI-182216
IRR-11/8	MI-18	IR-7255	IR-182220	PI-182220
IRR-13/16	MI-19	IR-7275	IR-192420	
IRR-11/4-4	MI-20-N		IR-202416	PI-202416
IRR-11/4	MI-20	IR-7275-C	IR-202420	PI-202420
IRR-15/16-1	MI-21-N	IR-7294	IR-212616	PI-212616
IRR-15/16	MI-21	IR-7295	IR-212620	
IRR-13/8	MI-22-4S	IR-7295-C	IR-222620	PI-222620
IRR-13/8-2	MI-22		IR-222820	
IRR-17/16	MI-23	IR-7315	IR-232820	PI-232820
IRR-11/2-1	MI-24-N		IR-242816	PI-242816
IRR-11/2	MI-24	IR-7315-C	IR-242820	PI-242820
IRR-19/16	MI-25-4S	IR-7335	IR-253020	PI-253020
IRR-19/16-1	MI-25		IR-253220	
IRR-15/8-3	MI-26-2S	IR-7345		
IRR-15/8-1	MI-26-N			
IRR-15/8	MI-26	IR-7355-D	IR-263220	
IRR-111/16	MI-27	IR-7355	IR-273220	PI-273220
IRR-13/4-2	MI-28-N	IR 8406	IR-283624	PI-283264
IRR-13/4	MI-28	IR 8407	IR-283628	PI-283628

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SMITH®	McGill	RBC	Torrington	INA
IRR-17/8	MI-30	IR-8407-C1		
IRR-15/16	MI-31	IR-8447	IR-314028	
IRR-2-1	MI-32-N	IR-8446-C	IR-324024	PI-324024
IRR-2	MI-32	IR-8447-C	IR-324028	
IRR-21/8	MI-34	IR-8447-C1		
IRR-23/16	MI-35	IR-8447	IR-354428	
IRR-21/4-1	MI-36-N	IR-8476-C	IR-364424	PI-364424
IRR-21/4	MI-36	IR-8477-C	IR-364428	
IRR-23/8	MI-38	IR-8517	IR-384828	
IRR-27/16	MI-39			
IRR-21/2-1	MI-40-N	IR-8516-C	IR-404824	PI-404824
IRR-21/2	MI-40	IR-8517-C	IR-404828	
IRR-25/8	MI-42	IR-9567-D		
IRR-23/4	MI-44	IR-9567	IR-445228	IR-445228
IRR-27/8	MI-46			
IRR-215/16	MI-47	IR-9608	IR-475632	
IRR-3-1	MI-48-N			
IRR-3	MI-48	IR-9608-C	IR-485632	PI-485632
IRR-31/8	MI-50	IR-9648	IR-506032	
IRR-31/4	MI-52	IR-9648-C	IR-526032	
IRR-33/8	MI-54	IR-9688	IR-546432	
IRR-31/2	MI-56	IR-9688-C	IR-566432	
IRR-35/8	MI-58	IR-9728-C		
IRR-33/4	MI-60	IR-9728-C1	IR-606832	
IRR-37/8	MI-62	IR-6769-C		
IRR-4	MI-64	IR-6849	IR-648036	
IRR-41/4	MI-68	IR-6849-C	IR-688036	
IRR-41/2-1	MI-72-N	IR-6918	IR-728840	
IRR-41/2	MI-72	IR-6919	IR-728848	
IRR-5-1	MI-80-N	IR-6925	IR-809640	
IRR-5	MI-80	IR-6926	IR-809648	
IRR-51/2-1	MI-88-N	IR-6935	IR-8810440	
IRR-51/2	MI-88	IR-6936	IR-8810448	
IRR-6	MI-96	IR-2326	IR-9611648	
IRR-61/2	MI-104	IR-2426	IR-10412448	
IRR-7	MI-112	IR-2526	IR-11213248	
IRR-71/2	MI-120	IR-2626	IR-12014048	
IRR-8	MI-128	IR-2726	IR-12814848	