

To obtain fundamental bearing frequencies, obtain the frequency factors from the table and multiply by the bearing rotational speed (RPM).

Outer Race Frequency = O x RPM

Inner Race Frequency = I x RPM

Roller Spin Frequency = B x RPM

Fundamental Train Frequency = F x RPM

Bearing Number	Outer Race Freq. Factor O	Inner Race Freq. Factor I	Roller Spin Freq. Factor B	Fundamental Train Freq. Factor F
CF - 1/2	0.12412	0.17588	0.04687	0.00977
CF - 9/16	0.12412	0.17588	0.04687	0.00977
CF - 5/8	0.15740	0.20926	0.05774	0.00951
CF - 11/16	0.15740	0.20926	0.05744	0.00951
CF - 3/4	0.18233	0.23434	0.06572	0.00937
CF - 7/8	0.18233	0.23434	0.06572	0.00937
CF - 1	0.24064	0.29270	0.08455	0.00915
CF - 1 1/8	0.24064	0.29270	0.08455	0.00915
CF - 1 1/4	0.13233	0.18433	0.04938	0.00970
CF - 1 3/8	0.13233	0.18433	0.04938	0.00970
CF - 1 1/2	0.15731	0.20936	0.05751	0.00952
CF - 1 5/8	0.15731	0.20936	0.05751	0.00952
CF - 1 3/4	0.18228	0.23438	0.06560	0.00938
CF - 1 7/8	0.18228	0.23438	0.06560	0.00938
CF - 2	0.20727	0.25940	0.07366	0.00926
CF - 2 1/4	0.20727	0.25940	0.07366	0.00926
CF - 2 1/2	0.24891	0.30109	0.08705	0.00912
CF - 2 3/4	0.24891	0.30109	0.08705	0.00912
CF - 3	0.34056	0.39278	0.11643	0.00893
CF - 3 1/4	0.34056	0.39278	0.11643	0.00893
CF - 3 1/2	0.24056	0.29277	0.08430	0.00915
CF - 4	0.29055	0.34279	0.10034	0.00902
CF - 5	0.27388	0.32612	0.09500	0.00906
CF - 6	0.22389	0.27611	0.07891	0.00920
CF - 7	0.25721	0.30946	0.08960	0.00910
CFH - 1/2	0.12412	0.17588	0.04687	0.00977
CFH - 9/16	0.12412	0.17588	0.04687	0.00977
CFH - 5/8	0.15740	0.20926	0.05774	0.00951
CFH - 11/16	0.15740	0.20926	0.05774	0.00951
CFH - 3/4	0.18233	0.23434	0.06572	0.00937
CFH - 7/8	0.18233	0.23434	0.06572	0.00937
CFH - 1	0.24064	0.29270	0.08455	0.00915
CFH - 1 1/8	0.24064	0.29270	0.08455	0.00915
CFH - 1 1/4	0.18805	0.26195	0.04938	0.00970
CFH - 1 3/8	0.18805	0.26195	0.04938	0.00970
CFH - 1 1/2	0.22166	0.29501	0.05751	0.00952
CFH - 1 5/8	0.21166	0.29501	0.05751	0.00952
CFH - 1 3/4	0.25520	0.32814	0.06560	0.00938
CFH - 1 7/8	0.25520	0.32814	0.06560	0.00938
CFH - 2	0.28869	0.36131	0.07366	0.00926

Note: All values are based on a stationary inner with rotation of the bearing outer.

To obtain fundamental bearing frequencies, obtain the frequency factors from the table and multiply by the bearing rotational speed (RPM).

Outer Race Frequency = $O \times \text{RPM}$

Inner Race Frequency = $I \times \text{RPM}$

Roller Spin Frequency = $B \times \text{RPM}$

Fundamental Train Frequency = $F \times \text{RPM}$

Bearing Number	Outer Race Freq. Factor O	Inner Race Freq. Factor I	Roller Spin Freq. Factor B	Fundamental Train Freq. Factor F
CFH - 2 1/4	0.28869	0.36131	0.07366	0.00926
CFH - 2 1/2	0.24891	0.30109	0.08705	0.00912
CFH - 2 3/4	0.24891	0.30109	0.08705	0.00912
CFH - 3	0.34056	0.39278	0.11643	0.00893
CFH - 3 1/4	0.34056	0.39278	0.11643	0.00893
CFH - 3 1/2	0.24056	0.29277	0.08430	0.00915
CFH - 4	0.29055	0.34279	0.10034	0.00902
CFH - 5	0.27388	0.32612	0.09500	0.00906
CFH - 6	0.22389	0.27611	0.07891	0.00920
CFH - 7	0.25721	0.30946	0.08960	0.00910
CYR - 3/4	0.18233	0.23434	0.06572	0.00937
CYR - 7/8	0.18233	0.23434	0.06572	0.00937
CYR - 1	0.24064	0.29270	0.08455	0.00915
CYR - 1 1/8	0.24064	0.29270	0.08455	0.00915
CYR - 1 1/4	0.13233	0.18433	0.04938	0.00970
CYR - 1 3/8	0.13233	0.18433	0.04938	0.00970
CYR - 1 1/2	0.15731	0.20936	0.05751	0.00952
CYR - 1 5/8	0.15731	0.20936	0.05751	0.00952
CYR - 1 3/4	0.18228	0.23438	0.06560	0.00938
CYR - 1 7/8	0.18228	0.23438	0.06560	0.00938
CYR - 2	0.20727	0.25940	0.07366	0.00926
CYR - 2 1/4	0.20727	0.25940	0.07366	0.00926
CYR - 2 1/2	0.24891	0.30109	0.08705	0.00912
CYR - 2 3/4	0.24891	0.30109	0.08705	0.00912
CYR - 3	0.34056	0.39278	0.11643	0.00893
CYR - 3 1/4	0.34056	0.39278	0.11643	0.00893
CYR - 3 1/2	0.24056	0.29277	0.08430	0.00915
CYR - 4	0.29055	0.34279	0.10034	0.00902
CYR - 5	0.27388	0.32612	0.09500	0.00906
CYR - 6	0.22389	0.27611	0.07891	0.00920
CYR - 7	0.25721	0.30946	0.08960	0.00910
MCF - 13	0.12410	0.17590	0.04682	0.00977
MCF - 16	0.12407	0.17593	0.04677	0.00977
MCF - 19	0.15736	0.20930	0.05765	0.00951
MCF - 22	0.16568	0.21766	0.06033	0.00946
MCF - 22A	0.16568	0.21766	0.06033	0.00946
MCF - 26	0.16568	0.21766	0.06033	0.00946
MCF - 26A	0.16568	0.21766	0.06033	0.00946
MCF - 30	0.17397	0.22603	0.06296	0.00942
MCF - 32	0.17397	0.22603	0.06296	0.00942

Note: All values are based on a stationary inner with rotation of the bearing outer.

To obtain fundamental bearing frequencies, obtain the frequency factors from the table and multiply by the bearing rotational speed (RPM).

Outer Race Frequency = $O \times \text{RPM}$

Inner Race Frequency = $I \times \text{RPM}$

Roller Spin Frequency = $B \times \text{RPM}$

Fundamental Train Frequency = $F \times \text{RPM}$

Bearing Number	Outer Race Freq. Factor O	Inner Race Freq. Factor I	Roller Spin Freq. Factor B	Fundamental Train Freq. Factor F
MCF - 35	0.23228	0.28439	0.08179	0.00917
MCF - 40	0.23228	0.28439	0.08179	0.00917
MCF - 40A	0.23228	0.28439	0.08179	0.00917
MCF - 47	0.26560	0.31773	0.09251	0.00908
MCF - 47A	0.26560	0.31773	0.09251	0.00908
MCF - 52	0.26560	0.31773	0.09251	0.00908
MCF - 52A	0.26560	0.31773	0.09251	0.00908
MCF - 62	0.27392	0.32608	0.09512	0.00906
MCF - 62A	0.27392	0.32608	0.09512	0.00906
MCF - 72	0.27392	0.32608	0.09512	0.00906
MCF - 72A	0.27392	0.32608	0.09512	0.00906
MCF - 80	0.28220	0.33446	0.09763	0.00904
MCF - 85	0.28220	0.33446	0.09763	0.00904
MCF - 90	0.28220	0.33446	0.09763	0.00904
MCFR - 13	0.07584	0.10750	0.04682	0.00977
MCFR - 16	0.08271	0.11729	0.04677	0.00977
MCFR - 19	0.10014	0.13319	0.05765	0.00951
MCFR - 22	0.12966	0.17034	0.06033	0.00946
MCFR - 22A	0.12966	0.17034	0.06033	0.00946
MCFR - 26	0.12966	0.17034	0.06033	0.00946
MCFR - 26A	0.12966	0.17034	0.06033	0.00946
MCFR - 30	0.13048	0.16952	0.06296	0.00942
MCFR - 32	0.13048	0.16952	0.06296	0.00942
MCFR - 35	0.16484	0.20182	0.08179	0.00917
MCFR - 40	0.17983	0.22017	0.08179	0.00917
MCFR - 40A	0.17983	0.22017	0.08179	0.00917
MCFR - 47	0.19730	0.23603	0.09251	0.00908
MCFR - 47A	0.19730	0.23603	0.09251	0.00908
MCFR - 52	0.19730	0.23603	0.09251	0.00908
MCFR - 52A	0.19730	0.23603	0.09251	0.00908
MCFR - 62	0.19783	0.23551	0.09512	0.00906
MCFR - 62A	0.19783	0.23551	0.09512	0.00906
MCFR - 72	0.19783	0.23551	0.09512	0.00906
MCFR - 72A	0.19783	0.23551	0.09512	0.00906
MCFR - 80	0.21356	0.25311	0.09763	0.00904
MCFR - 85	0.21356	0.25311	0.09763	0.00904
MCFR - 90	0.21356	0.25311	0.09763	0.00904
MCYR - 5	0.12407	0.17593	0.04677	0.00977
MCYR - 6	0.15736	0.20930	0.05765	0.00951
MCYR - 8	0.15734	0.20933	0.05760	0.00951

Note: All values are based on a stationary inner with rotation of the bearing outer.

To obtain fundamental bearing frequencies, obtain the frequency factors from the table and multiply by the bearing rotational speed (RPM).

Outer Race Frequency = $O \times \text{RPM}$

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Roller Spin Frequency = $B \times \text{RPM}$

Fundamental Train Frequency = $F \times \text{RPM}$

Bearing Number	Outer Race Freq. Factor O	Inner Race Freq. Factor I	Roller Spin Freq. Factor B	Fundamental Train Freq. Factor F
MCYR - 10	0.17397	0.22603	0.06296	0.00942
MCYR - 12	0.19896	0.25104	0.07105	0.00930
MCYR - 15	0.23228	0.28439	0.08179	0.00917
MCYR - 17	0.23228	0.28439	0.08179	0.00917
MCYR - 20	0.26560	0.31773	0.09251	0.00908
MCYR - 25	0.32393	0.37607	0.11124	0.00895
MCYR - 30	0.33224	0.38443	0.11383	0.00894
MCYR - 35	0.33223	0.38443	0.11380	0.00894
MCYR - 40	0.32390	0.37610	0.11111	0.00895
MCYR - 45	0.35723	0.40944	0.12179	0.00890
MCYR - 50	0.39056	0.44278	0.13246	0.00886
MCYRR - 5	0.08271	0.11729	0.04677	0.00977
MCYRR - 6	0.10014	0.13319	0.05765	0.00951
MCYRR - 8	0.11443	0.15224	0.05760	0.00951
MCYRR - 10	0.13048	0.16952	0.06296	0.00942
MCYRR - 12	0.14738	0.18595	0.07105	0.00930
MCYRR - 15	0.16484	0.20182	0.08179	0.00917
MCYRR - 17	0.17983	0.22017	0.08179	0.00917
MCYRR - 20	0.19730	0.23603	0.09251	0.00908
MCYRR - 25	0.23138	0.26862	0.11124	0.00895
MCYRR - 30	0.24725	0.28609	0.11383	0.00894
MCYRR - 35	0.24724	0.28609	0.11380	0.00894
MCYRR - 40	0.24678	0.28656	0.11111	0.00895
MCYRR - 45	0.26404	0.30263	0.12179	0.00890
MCYRR - 50	0.29682	0.33651	0.13246	0.00886
MCFD - 35	0.12405	0.17595	0.04673	0.00978
MCFD - 40	0.14070	0.19264	0.05218	0.00963
MCFD - 47	0.13235	0.18431	0.04942	0.00970
MCFD - 52	0.15732	0.20934	0.05755	0.00952
MCFD - 62	0.14066	0.19268	0.05210	0.00963
MCFD - 72	0.16564	0.21770	0.06023	0.00947
MCFD - 80	0.14065	0.19269	0.05208	0.00963
MCFD - 90	0.14065	0.19269	0.05208	0.00963
MCYRD - 15	0.24807	0.35193	0.04670	0.00978
MCYRD - 17	0.28137	0.38530	0.05215	0.00963
MCYRD - 20	0.26469	0.36865	0.04940	0.00970
MCYRD - 25	0.31463	0.41871	0.05753	0.00952
MCYRD - 30	0.28130	0.38537	0.05208	0.00963
MCYRD - 35	0.33126	0.43541	0.06021	0.00947

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Roller Spin Frequency = $B \times \text{RPM}$

Fundamental Train Frequency = $F \times \text{RPM}$

Bearing Number	Outer Race Freq. Factor O	Inner Race Freq. Factor I	Roller Spin Freq. Factor B	Fundamental Train Freq. Factor F
MCYRD - 40	0.33124	0.43543	0.06019	0.00947
MCYRD - 45	0.36456	0.46878	0.06559	0.00938
MCYRD - 50	0.39788	0.50212	0.07099	0.00930
CFD - 1 $\frac{1}{4}$	0.10737	0.15930	0.04118	0.00996
CFD - 1 $\frac{3}{8}$	0.10737	0.15930	0.04118	0.00996
CFD - 1 $\frac{1}{2}$	0.10737	0.15930	0.04116	0.00996
CFD - 1 $\frac{5}{8}$	0.10737	0.15930	0.04116	0.00996
CFD - 1 $\frac{3}{4}$	0.10737	0.15930	0.04116	0.00996
CFD - 1 $\frac{7}{8}$	0.10737	0.15930	0.04116	0.00996
CFD - 2	0.10736	0.15930	0.04116	0.00996
CFD - 2 $\frac{1}{4}$	0.10736	0.15930	0.04116	0.00996
CFD - 2 $\frac{1}{2}$	0.12400	0.17600	0.04662	0.00978
CFD - 2 $\frac{3}{4}$	0.12400	0.17600	0.04662	0.00978
CFD - 3	0.14063	0.19270	0.05205	0.00964
CFD - 3 $\frac{1}{4}$	0.14063	0.19270	0.05205	0.00964
CFD - 3 $\frac{1}{2}$	0.14895	0.20105	0.05474	0.00957
CFD - 4	0.14062	0.19271	0.05203	0.00964
CFD - 5	0.14062	0.19271	0.05203	0.00964
CFD - 6	0.14062	0.19271	0.05202	0.00964
CYRD - 1 $\frac{1}{4}$	0.10737	0.15930	0.04118	0.00996
CYRD - 1 $\frac{3}{8}$	0.10737	0.15930	0.04118	0.00996
CYRD - 1 $\frac{1}{2}$	0.10737	0.15930	0.04116	0.00996
CYRD - 1 $\frac{5}{8}$	0.10737	0.15930	0.04116	0.00996
CYRD - 1 $\frac{3}{4}$	0.10737	0.15930	0.04116	0.00996
CYRD - 1 $\frac{7}{8}$	0.10737	0.15930	0.04116	0.00996
CYRD - 2	0.10736	0.15930	0.04116	0.00996
CYRD - 2 $\frac{1}{4}$	0.10736	0.15930	0.04116	0.00996
CYRD - 2 $\frac{1}{2}$	0.12400	0.17600	0.04662	0.00978
CYRD - 2 $\frac{3}{4}$	0.12400	0.17600	0.04662	0.00978
CYRD - 3	0.14063	0.19270	0.05205	0.00964
CYRD - 3 $\frac{1}{4}$	0.14063	0.19270	0.05205	0.00964
CYRD - 3 $\frac{1}{2}$	0.14895	0.20105	0.05474	0.00957
CYRD - 4	0.14062	0.19271	0.05203	0.00964
CYRD - 5	0.14062	0.19271	0.05203	0.00964
CYRD - 6	0.14062	0.19271	0.05202	0.00964

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Outer Race Frequency = $O \times \text{RPM}$

Inner Race Frequency = $I \times \text{RPM}$

Roller Spin Frequency = $B \times \text{RPM}$

Fundamental Train Frequency = $F \times \text{RPM}$

Bearing Number	Outer Race Freq. Factor O	Inner Race Freq. Factor I	Roller Spin Freq. Factor B	Fundamental Train Freq. Factor F
MR - 10	0.06535	0.10132	0.03682	0.00653
MR - 12	0.08134	0.11866	0.04312	0.00678
MR - 14	0.09054	0.12613	0.04936	0.00696
MR - 16	0.10666	0.14334	0.05556	0.00711
MR - 18	0.12288	0.16045	0.06173	0.00723
MR - 20	0.13186	0.16814	0.06789	0.00733
MR - 22	0.14814	0.18520	0.07403	0.00741
MR - 24	0.14810	0.18523	0.07389	0.00741
MR - 26	0.15685	0.19315	0.07950	0.00747
MR - 28	0.17307	0.21026	0.08510	0.00752
MR - 30	0.18177	0.21823	0.09069	0.00757
MR - 32	0.19805	0.23528	0.09627	0.00762
MR - 36	0.17250	0.21083	0.08250	0.00750
MR - 40	0.18939	0.22727	0.09091	0.00758
MR - 44	0.20625	0.24375	0.09931	0.00764
MR - 48	0.23077	0.26923	0.10769	0.00769
MR - 52	0.18939	0.22727	0.09091	0.00758
MR - 56	0.20588	0.24412	0.09737	0.00763
MR - 60	0.21472	0.25194	0.10382	0.00767
MR - 64	0.23121	0.26879	0.11027	0.00771
MR - 68	0.24772	0.28561	0.11672	0.00774
MR - 72	0.18750	0.22917	0.08250	0.00750
MR - 80	0.21212	0.25455	0.09091	0.00758
MR - 88	0.22917	0.27083	0.09931	0.00764
MR - 104	0.24762	0.28571	0.11607	0.00774
MR - 116	0.21481	0.25185	0.10434	0.00767
MR - 132	0.24789	0.28545	0.11775	0.00775
MR - 148	0.27321	0.31013	0.13114	0.00781
GR - 10	0.10753	0.15914	0.04144	0.00672
GR - 12	0.12417	0.17583	0.04696	0.00690
GR - 14	0.14910	0.20090	0.05507	0.00710
GR - 16	0.16580	0.21753	0.06063	0.00721
GR - 18	0.19073	0.24261	0.06861	0.00734
GR - 20	0.20744	0.25922	0.07418	0.00741
GR - 22	0.23247	0.28420	0.08239	0.00750
GR - 24	0.24909	0.30091	0.08768	0.00755
GR - 26	0.27418	0.32582	0.09612	0.00762
GR - 27	0.29082	0.34252	0.10140	0.00765
GR - 28	0.29075	0.34258	0.10113	0.00765

Note: All values are based on a stationary housing with shaft rotation.

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Outer Race Frequency = $O \times \text{RPM}$

Inner Race Frequency = $I \times \text{RPM}$

Roller Spin Frequency = $B \times \text{RPM}$

Fundamental Train Frequency = $F \times \text{RPM}$

Bearing Number	Outer Race Freq. Factor O	Inner Race Freq. Factor I	Roller Spin Freq. Factor B	Fundamental Train Freq. Factor F
GR - 30	0.32407	0.37593	0.11188	0.00772
GR - 32	0.33241	0.38426	0.11457	0.00773
GR - 36	0.26563	0.31770	0.09262	0.00759
GR - 40	0.29904	0.35096	0.10367	0.00767
GR - 44	0.32402	0.37598	0.11165	0.00771
GR - 48	0.35736	0.40930	0.12245	0.00777
GR - 52	0.27395	0.32605	0.09526	0.00761
GR - 56	0.29895	0.35105	0.10329	0.00767
GR - 60	0.31566	0.36768	0.10883	0.00770
GR - 64	0.34061	0.39272	0.11667	0.00774
GR - 68	0.35735	0.40931	0.12239	0.00777
GR - 72	0.27339	0.32661	0.09321	0.00759
GR - 80	0.29893	0.35107	0.10323	0.00766
GR - 88	0.33224	0.38443	0.11382	0.00773
GR - 96	0.35725	0.40941	0.12192	0.00777
GR - 104	0.39056	0.44277	0.13248	0.00781
GR - 116	0.38224	0.43443	0.12985	0.00780
GR - 124	0.40722	0.45945	0.13778	0.00783
GR - 132	0.43224	0.48443	0.14591	0.00786
GR - 140	0.45726	0.50941	0.15401	0.00788
GR - 148	0.48226	0.53440	0.16207	0.00791

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To obtain fundamental bearing frequencies, obtain the frequency factors from the table and multiply by the bearing rotational speed (RPM).

Outer Race Frequency = O x RPM

Inner Race Frequency = I x RPM

Roller Spin Frequency = B x RPM

Fundamental Train Frequency = F x RPM

Bearing Number	Outer Race Freq. Factor O	Inner Race Freq. Factor I	Roller Spin Freq. Factor B	Fundamental Train Freq. Factor F
SB - 22204	0.06261	0.10406	0.03144	0.00626
SB - 22205	0.07836	0.12164	0.03671	0.00653
SB - 22206	0.07846	0.12154	0.03690	0.00654
SB - 22207	0.08578	0.13089	0.03829	0.00660
SB - 22208	0.08623	0.13044	0.03914	0.00663
SB - 22209	0.09469	0.13864	0.04267	0.00676
SB - 22210	0.10314	0.14686	0.04619	0.00688
SB - 22211	0.09464	0.13869	0.04257	0.00676
SB - 22212	0.10222	0.14778	0.04421	0.00681
SB - 22213	0.10275	0.14725	0.04533	0.00685
SB - 22215	0.11027	0.15639	0.04674	0.00689
SB - 22216	0.11157	0.15509	0.04970	0.00697
SB - 22217	0.11102	0.15564	0.04841	0.00694
SB - 22218	0.11057	0.15609	0.04740	0.00691
SB - 22219	0.11033	0.15634	0.04686	0.00690
SB - 22220	0.10318	0.14682	0.04628	0.00688
SB - 22222	0.11011	0.15656	0.04638	0.00688
SB - 22224	0.10220	0.14780	0.04416	0.00681
SB - 22226	0.10313	0.14687	0.04617	0.00688
SB - 22228	0.10237	0.14763	0.04452	0.00682
SB - 22230	0.10240	0.14760	0.04458	0.00683
SB - 22236	0.10238	0.14762	0.04455	0.00683
SB - 22308	0.07694	0.12306	0.03422	0.00641
SB - 22309	0.07725	0.12275	0.03473	0.00644
SB - 22310	0.07748	0.12252	0.03513	0.00646
SB - 22311	0.07751	0.12249	0.03518	0.00646
SB - 22312	0.07686	0.12314	0.03409	0.00641
SB - 22313	0.07677	0.12323	0.03394	0.00640
SB - 22314	0.07692	0.12308	0.03418	0.00641
SB - 22315	0.07706	0.12294	0.03441	0.00642
SB - 22316	0.07777	0.12223	0.03564	0.00648
SB - 22317	0.07784	0.12216	0.03576	0.00649
SB - 22318	0.07750	0.12250	0.03517	0.00646
SB - 22319	0.07761	0.12239	0.03536	0.00647
SB - 22320	0.07702	0.12298	0.03435	0.00642
SB - 22322	0.07663	0.12337	0.03372	0.00639
SB - 22324	0.07619	0.12381	0.03301	0.00635
SB - 22326	0.07671	0.12329	0.03383	0.00639

Note: All values are based on a stationary housing with shaft rotation.

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