



TABLE OF GEAR TOOTH DIMENSIONS

DIAMETRAL PITCH

Relation between Diametral Pitch and Circular Pitch, with corresponding Tooth Dimensions

Diametral Pitch	Circular Pitch	Thickness of Tooth On Pitch Line	Whole Depth	Dedendum	Addendum	Diametral Pitch	Circular Pitch	Thickness of Tooth On Pitch Line	Whole Depth	Dedendum	Addendum
1/2	6.2832"	3.1416"	4.3142"	2.3142"	2.0000"	10	.3142	.1571	.2157	.1157	.1000
3/4	4.1888	2.0944	2.8761	1.5428	1.3333	11	.2856	.1428	.1961	.1052	.0909
1	3.1416	1.5708	2.1571	1.1571	1.0000	12	.2618	.1309	.1798	.0964	.0833
1 1/4	2.5133	1.2566	1.7257	.9257	.8000	14	.2244	.1122	.1541	.0826	.0714
1 1/2	2.0944	1.0472	1.4381	.7714	.6666	16	.1963	.0982	.1348	.0723	.0625
1 3/4	1.7952	.8976	1.2326	.6612	.5714	18	.1745	.0873	.1198	.0643	.0555
2	1.5708	.7854	1.0785	.5785	.5000	20	.1571	.0785	.1079	.0579	.0500
2 1/4	1.3963	.6981	.9587	.5143	.4444	22	.1428	.0714	.0980	.0526	.0455
2 1/2	1.2566	.6283	.8628	.4628	.4000	24	.1309	.0654	.0898	.0482	.0417
2 3/4	1.1424	.5712	.7844	.4208	.3636	26	.1208	.0604	.0829	.0445	.0385
3	1.0472	.5236	.7190	.3857	.3333	28	.1122	.0561	.0770	.0413	.0357
3 1/2	.8976	.4488	.6163	.3306	.2857	30	.1047	.0524	.0719	.0386	.0333
4	.7854	.3927	.5393	.2893	.2500	32	.0982	.0491	.0674	.0362	.0312
5	.6283	.3142	.4314	.2314	.2000	36	.0873	.0436	.0599	.0321	.0278
6	.5236	.2618	.3595	.1928	.1666	40	.0785	.0393	.0539	.0289	.0250
7	.4488	.2244	.3081	.1653	.1429	48	.0654	.0327	.0449	.0241	.0208
8	.3927	.1963	.2696	.1446	.1250	60	.0524	.0262	.0360	.0193	.0166
9	.3491	.1745	.2397	.1286	.1111						

To obtain the size of a diametral pitch not given in the table divide the corresponding part of 1 diametral pitch by the pitch required.

These dimensions are for general informational use only. They will vary based on manufacturing methods or other requirements.

Please contact us for assistance with any specific product dimension questions or needs you may have.

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