

HELICAL DP GEAR CONVERSION CHART

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Trans DP	7-1/2° Helix	10° Helix	15° Helix	20° Helix	23° Helix	30° Helix	45° Helix
72	72.6213	73.1107	74.5398	76.6208	78.2179	83.1384	101.8234
64	64.5522	64.9873	66.2577	68.1074	69.5271	73.9008	90.5097
48	48.4142	48.7405	49.6933	51.0805	52.1453	55.4256	67.8823
40	40.3452	40.6171	41.4111	42.5671	43.4544	46.1880	56.5685
36	36.3106	36.5554	37.2699	38.3104	39.1090	41.5692	50.9117
32	32.2761	32.4937	33.1288	34.0537	34.7635	36.9504	45.2548
28	28.2416	28.4319	28.9877	29.7970	30.4181	32.3316	39.5980
24	24.2071	24.3702	24.8466	25.5403	24.9205	27.7128	33.9400
20	20.1726	20.3085	20.7055	21.2836	21.7272	23.0940	28.2800
16	16.1381	16.2468	16.5643	17.0268	17.3818	18.4752	22.6272
14	14.1208	14.2160	14.4939	14.8985	15.2090	16.1658	19.7990
12	12.1036	12.1851	12.4233	12.7701	13.0363	13.8560	16.9704
10	10.0863	10.1543	10.3527	10.6418	10.8636	11.5470	14.1420
9	9.0776	9.1388	9.3175	9.5776	9.7772	10.3923	12.7279
8	8.0690	8.1234	8.2822	8.5134	8.6909	9.2376	11.3136
7	7.0604	7.1079	7.2469	7.4492	7.6045	8.0829	9.8995
6	6.0518	6.0925	6.2116	6.3851	6.5182	6.9282	8.4852
5	5.0431	5.0771	5.1764	5.3209	5.4318	5.7735	7.0710
4.5	4.5388	4.5694	4.6587	4.7888	4.8886	5.1962	6.3640
4	4.0345	4.0617	4.1411	4.2567	4.3454	4.6188	5.6568
3.5	3.5302	3.5539	3.6235	3.7246	3.8020	4.0414	4.9497
3	3.0259	3.0463	3.1058	3.1925	3.2591	3.4641	4.2426
2.75	2.7737	2.7924	2.8470	2.9265	2.9875	3.1754	3.8891
2.5	2.5216	2.5385	2.5882	2.6604	2.7159	2.8867	3.5355
2.25	2.2694	2.2847	2.3294	2.3944	2.4443	2.5981	3.1820
2	2.0172	2.0309	2.07055	2.1284	2.1727	2.3094	2.8284
1.75	1.7651	1.7770	1.8117	1.8623	1.9011	2.0207	2.4729
1.5	1.5129	1.5231	1.5529	1.5963	1.6295	1.7320	2.1213
1.25	1.2608	1.2693	1.2941	1.3302	1.3579	1.4434	1.7678
1	1.0086	1.0154	1.0353	1.0643	1.0863	1.1547	1.4142

Formula: $TDP / \cos \text{ Helix Angle } = NDP$