

This spreadsheet is to estimate how well/poorly the tracks of a standard 5.25" HD drive align with Twigg tracks in consideration of whether a Twigg disk could be read in a standard HD drive. When attempting to read a Twigg disk (nominally 62.5 TPI) in a regular 5.25" HD drive (nominally 96 TPI), the narrower head of the HD drive will be within the boundaries of the Twigg track for some tracks. For other tracks, the closest HD track is part way between two Twigg tracks, and so the head of the HD drive will be only partially over the Twigg Track. Dimensions in inches; 1.000" = 25.40 mm

Twigg Track #	62.5 TPI Twigg Track Radial Position at spacing of... 0.016	96 TPI 5.25" HD Closest Track at spacing of 0.010416667	96 TPI 5.25" HD Track Position at spacing of 0.010416667	5.25" HD Track Position Rounded to 4 places	Twigg vs 5.25" HD track position error between centers	Twigg for track width * 0.0097 inner edge	Twigg half width * 0.00485 outer edge	5.25" HD for track width † 0.0063 inner edge	5.25" HD half width † 0.00315 outer edge	Portion of 5.25" HD head that overlaps Twigg track
0	2.25	0	2.25	2.2500	0.0000	2.24515	2.25485	2.2469	2.2532	100%
1	2.234	2	2.229166667	2.2292	0.0048	2.22915	2.23885	2.2260	2.2323	50%
2	2.218	3	2.21875	2.2188	-0.0008	2.21315	2.22285	2.2156	2.2219	100%
3	2.202	5	2.197916667	2.1979	0.0041	2.19715	2.20685	2.1948	2.2011	63%
4	2.186	6	2.1875	2.1875	-0.0015	2.18115	2.19085	2.1844	2.1907	100%
5	2.17	8	2.166666667	2.1667	0.0033	2.16515	2.17485	2.1635	2.1698	74%
6	2.154	9	2.15625	2.1563	-0.0023	2.14915	2.15885	2.1531	2.1594	91%
7	2.138	11	2.135416667	2.1354	0.0026	2.13315	2.14285	2.1323	2.1386	87%
8	2.122	12	2.125	2.1250	-0.0030	2.11715	2.12685	2.1219	2.1282	79%
9	2.106	14	2.104166667	2.1042	0.0018	2.10115	2.11085	2.1010	2.1073	98%
10	2.09	15	2.09375	2.0938	-0.0038	2.08515	2.09485	2.0906	2.0969	67%
11	2.074	17	2.072916667	2.0729	0.0011	2.06915	2.07885	2.0698	2.0761	100%
12	2.058	18	2.0625	2.0625	-0.0045	2.05315	2.06285	2.0594	2.0657	55%
13	2.042	20	2.041666667	2.0417	0.0003	2.03715	2.04685	2.0385	2.0448	100%
14	2.026	22	2.020833333	2.0208	0.0052	2.02115	2.03085	2.0177	2.0240	45%
15	2.01	23	2.010416667	2.0104	-0.0004	2.00515	2.01485	2.0073	2.0136	100%
16	1.994	25	1.989583333	1.9896	0.0044	1.98915	1.99885	1.9864	1.9927	56%
17	1.978	26	1.979166667	1.9792	-0.0012	1.97315	1.98285	1.9760	1.9823	100%
18	1.962	28	1.958333333	1.9583	0.0037	1.95715	1.96685	1.9552	1.9615	69%
19	1.946	29	1.947916667	1.9479	-0.0019	1.94115	1.95085	1.9448	1.9511	96%
20	1.93	31	1.927083333	1.9271	0.0029	1.92515	1.93485	1.9239	1.9302	80%
21	1.914	32	1.916666667	1.9167	-0.0027	1.90915	1.91885	1.9135	1.9198	85%
22	1.898	34	1.895833333	1.8958	0.0022	1.89315	1.90285	1.8927	1.8990	93%
23	1.882	35	1.885416667	1.8854	-0.0034	1.87715	1.88685	1.8823	1.8886	72%
24	1.866	37	1.864583333	1.8646	0.0014	1.86115	1.87085	1.8614	1.8677	100%
25	1.85	38	1.854166667	1.8542	-0.0042	1.84515	1.85485	1.8510	1.8573	61%
26	1.834	40	1.833333333	1.8333	0.0007	1.82915	1.83885	1.8302	1.8365	100%
27	1.818	41	1.822916667	1.8229	-0.0049	1.81315	1.82285	1.8198	1.8261	48%
28	1.802	43	1.802083333	1.8021	-0.0001	1.79715	1.80685	1.7989	1.8052	100%
29	1.786	45	1.78125	1.7813	0.0047	1.78115	1.79085	1.7781	1.7844	52%
30	1.77	46	1.770833333	1.7708	-0.0008	1.76515	1.77485	1.7677	1.7740	100%
31	1.754	48	1.75	1.7500	0.0040	1.74915	1.75885	1.7469	1.7532	64%
32	1.738	49	1.739583333	1.7396	-0.0016	1.73315	1.74285	1.7364	1.7427	100%
33	1.722	51	1.71875	1.7188	0.0032	1.71715	1.72685	1.7156	1.7219	75%
34	1.706	52	1.708333333	1.7083	-0.0023	1.70115	1.71085	1.7052	1.7115	90%
35	1.69	54	1.6875	1.6875	0.0025	1.68515	1.69485	1.6844	1.6907	88%
36	1.674	55	1.677083333	1.6771	-0.0031	1.66915	1.67885	1.6739	1.6802	79%
37	1.658	57	1.65625	1.6563	0.0017	1.65315	1.66285	1.6531	1.6594	99%
38	1.642	58	1.645833333	1.6458	-0.0038	1.63715	1.64685	1.6427	1.6490	66%
39	1.626	60	1.625	1.6250	0.0010	1.62115	1.63085	1.6219	1.6282	100%
40	1.61	61	1.614583333	1.6146	-0.0046	1.60515	1.61485	1.6114	1.6177	55%
41	1.594	63	1.59375	1.5938	0.0002	1.58915	1.59885	1.5906	1.5969	100%
42	1.578	65	1.572916667	1.5729	0.0051	1.57315	1.58285	1.5698	1.5761	47%
43	1.562	66	1.5625	1.5625	-0.0005	1.55715	1.56685	1.5594	1.5657	100%
44	1.546	68	1.541666667	1.5417	0.0043	1.54115	1.55085	1.5385	1.5448	58%
45	1.53	69	1.53125	1.5313	-0.0013	1.52515	1.53485	1.5281	1.5344	100%

Track Width Specifications for various drives (used to estimate Twigg track width)

TPI	Track spacing TS	Track width TW	Ratio of width:spacing TW/TS	half width TW/2
96	0.010416667	0.0063	0.6048	0.00315 † median value of track width of 96 TPI drives
96	0.010416667	0.0065	0.624	
96	0.010416667	0.0061	0.5856	
48	0.020833333	0.013	0.624	
48	0.020833333	0.0124	0.5952	
135	0.007407407	0.0045	0.6075	
			0.60685 average	

62.5 0.016 0.00971 0.00485 * calculated using average ratio of track width:spacing from other drive types. Twigg Specs say head gap width is 0.0095