

Worm and Gear Data

Center Distance 2.000" Worms

Face Width 5/8" Gears

Actual Ratio	Circ. Pitch	Out. Dia.	Pitch. Dia.	Root. Dia.	Lead Angle	Pitch. Dia.	Throat Dia.	Out. Dia.
5 1/6	.3044	1.188	.994	.820	30°20'	3.006	3.146	3.382
7 1/4	.3457	1.018	.798	.638	28°53'	3.202	3.324	3.382
9 2/3	.3393	1.080	.864	.636	20°34'	3.136	3.324	3.382
12 1/2	.3833	1.189	.945	.669	14°28'	3.055	3.283	3.382
15 1/2	.3205	1.020	.816	.584	14°02'	3.184	3.376	3.382
20 1/2	.2449	.956	.800	.610	11°02'	3.200	3.350	3.382
25	.3833	1.189	.945	.669	7°21'	3.055	3.283	3.382
30	.3273	1.040	.832	.586	7°08'	3.168	3.372	3.382
38	.2619	.998	.832	.634	5°43'	3.168	3.332	3.382
40	.2500	.980	.820	.622	5°34'	3.180	3.338	3.382
46	.2184	.966	.828	.664	4°48'	3.172	3.308	3.382
50	.2000	.892	.764	.596	4°46'	3.236	3.362	3.382
54	.1880	.930	.810	.666	4°13'	3.190	3.309	3.382
60	.1692	.827	.729	.591	4°14'	3.271	3.369	3.382
70	.1475	.787	.705	.581	3°49'	3.295	3.377	3.382

Center Distance 2.500" Worms

Face Width 7/8" Gears

Actual Ratio	Circ. Pitch	Out. Dia.	Pitch. Dia.	Root. Dia.	Lead Angle	Pitch. Dia.	Throat Dia.	Out. Dia.
5 1/6 RH&LH	.4148	1.155	.891	.723	41°39'	4.109	4.237	4 3/8
7 1/4 RH&LH	.4487	1.144	.858	.620	33°40'	4.142	4.332	4 3/8
9 2/3	.4487	1.144	.858	.582	26°31'	4.142	4.368	4 3/8
12 2/3	.3333	1.166	.954	.726	18°26'	4.046	4.236	4 3/8
15 1/2	.4191	1.130	.864	.570	17°10'	4.136	4.378	4 3/8
20 1/2	.3205	1.020	.816	.584	14°02'	4.184	4.376	4 3/8
25 RH&LH	.5062	1.248	.972	.650	9°25'	4.028	4.296	4 3/8
30 RH&LH	.4304	1.136	.890	.600	8°46'	4.110	4.352	4 3/8
40 RH&LH	.3273	1.040	.832	.586	7°08'	4.168	4.372	4 3/8
50	.2619	.998	.832	.634	5°43'	4.168	4.332	4 3/8
60	.2184	.966	.828	.664	4°48'	4.172	4.308	4 3/8
70	.1880	.930	.810	.666	4°14'	4.190	4.308	4 3/8

Worm and Gear Data

Center Distance 3.000" Worms

Face Width 1" Gears

Actual Ratio	Circ. Pitch	Out. Dia.	Pitch. Dia.	Root. Dia.	Lead Angle	Pitch. Dia.	Throat Dia.	Out. Dia.
5 1/6 RH&LH	.5026	1.360	1.040	.888	42°43'	4.960	5.064	5 1/4
7 1/4 RH&LH	.5375	1.380	1.038	.772	33°24'	4.962	5.170	5 1/4
9 2/3 RH&LH	.5375	1.380	1.038	.706	26°19'	4.962	5.234	5 1/4
15 1/2 RH&LH	.495	1.432	1.116	.764	15°46'	4.884	5.176	5 1/4
20 1/2	.3833	1.241	.997	.719	13°45'	5.003	5.233	5 1/4
24 1/2 RH&LH	.3205	1.224	1.020	.784	11°19'	4.980	5.176	5 1/4
30 RH&LH	.5091	1.463	1.139	.757	8°06'	4.861	5.179	5 1/4
40	.3929	1.248	.998	.702	7°09'	5.002	5.248	5 1/4
50	.3143	1.198	.998	.760	5°43'	5.002	5.200	5 1/4
60 RH&LH	.2658	1.092	.924	.724	5°14'	5.076	5.242	5 1/4
70	.2241	1.148	1.006	.836	4°03'	4.994	5.136	5 1/4

Center Distance 3.500" Worms

Face Width 1 1/4" Gears

Actual Ratio	Circ. Pitch	Out. Dia.	Pitch. Dia.	Root. Dia.	Lead Angle	Pitch. Dia.	Throat Dia.	Out. Dia.
5 1/6 RH&LH	.5780	1.656	1.288	1.068	40°36'	5.712	5.876	6 3/16
7 1/4 RH&LH	.6282	1.600	1.200	.936	33°41'	5.800	5.998	6 3/16
9 2/3 RH&LH	.6126	1.754	1.364	.966	23°13'	5.636	5.962	6 3/16
12 1/2	.7166	1.767	1.311	1.001	19°11'	5.689	5.913	6 3/16
14 1/2	.6026	1.821	1.437	1.005	14°57'	5.563	5.921	6 3/16
15 1/2	.5718	1.729	1.365	.955	14°56'	5.635	5.975	6 3/16
20 1/2 RH&LH	.4398	1.540	1.260	.940	12°32'	5.740	6.006	6 3/16
24 1/2 RH&LH	.3676	1.521	1.287	1.015	10°18'	5.713	5.939	6 3/16
30 RH&LH	.5874	1.777	1.403	.961	7°35'	5.597	5.965	6 3/16
40 RH&LH	.4430	1.622	1.340	1.006	6°0'	5.660	5.938	6 3/16
50	.3613	1.495	1.265	.991	5°12'	5.735	5.963	6 3/16
60	.3016	1.440	1.248	1.020	4°24'	5.752	5.942	6 3/16
70 RH&LH	.2576	1.394	1.230	1.034	3°49'	5.770	5.934	6 3/16

Worm and Gear Data

Center Distance 4.000" Worms

Face Width 1 1/2" Gears

Actual Ratio	Circ. Pitch	Out. Dia.	Pitch. Dia.	Root. Dia.	Lead Angle	Pitch. Dia.	Throat Dia.	Out. Dia.
5 1/6 RH&LH	.6629	1.881	1.459	1.179	40°57'	6.541	6.757	7 1/8
7 1/4 RH&LH	.7195	1.816	1.358	1.016	34°00'	6.642	6.908	7 1/8
9 2/3	.7193	1.818	1.360	.918	26°48'	6.640	7.000	7 1/8
11 2/3	.5914	1.787	1.411	1.019	21°49'	6.589	6.911	7 1/8
12 2/3	.5455	1.750	1.402	1.034	20°23'	6.598	6.902	7 1/8
14 2/3	.4808	1.568	1.262	.936	19°59'	6.738	7.006	7 1/8
15 1/2 RH&LH	.6691	1.824	1.398	.928	16°57'	6.602	6.990	7 1/8
17 1/2	.5938	1.648	1.370	.948	15°25'	6.630	6.980	7 1/8
20 1/2 RH&LH	.5050	1.643	1.317	.947	13°43'	6.683	6.989	7 1/8
24 1/2	.4336	1.518	1.242	.926	12°32'	6.758	7.020	7 1/8
27 1/2	.3810	1.572	1.330	1.048	10°20'	6.670	6.904	7 1/8
30 RH&LH	.6882	1.862	1.424	.910	8°45'	6.576	7.004	7 1/8
35	.5874	1.777	1.403	.961	7°35'	6.597	6.965	7 1/8
36	.5750	1.777	1.411	.979	7°24'	6.589	6.949	7 1/8
40	.5245	1.655	1.321	.927	7°12'	6.679	7.007	7 1/8
46	.4487	1.716	1.430	1.090	5°42'	6.570	6.854	7 1/8
48	.4375	1.594	1.316	.986	6°02'	6.684	6.958	7 1/8
50 RH&LH	.4286	1.451	1.179	.857	6°36'	6.821	7.089	7 1/8
60 RH&LH	.3594	1.364	1.136	.864	5°45'	6.864	7.090	7 1/8
70	.3028	1.445	1.253	1.023	4°24'	6.747	6.939	7 1/8

Center Distance 5.000" Worms

Face Width 1 5/8" Gears

Actual Ratio	Circ. Pitch	Out. Dia.	Pitch. Dia.	Root. Dia.	Lead Angle	Pitch. Dia.	Throat Dia.	Out. Dia.
5 1/6	.8387	2.270	1.736	1.406	42°42'	8.264	8.514	8 7/8
7 1/4 RH&LH	.8984	2.280	1.708	1.274	33°49'	8.292	8.630	8 7/8
9 2/3 RH&LH	.8985	2.278	1.706	1.154	26°42'	8.294	8.744	8 7/8
11 2/3	.7381	2.247	1.777	1.285	21°38'	8.223	8.627	8 7/8
12 2/3	.6912	2.090	1.650	1.190	21°48'	8.350	8.728	8 7/8
15 1/2 RH&LH	.8482	2.170	1.630	1.042	18°20'	8.370	8.856	8 7/8
18 1/2	.7100	2.090	1.638	1.130	15°25'	8.362	8.732	8 7/8
20 1/2 RH&LH	.6408	2.045	1.637	1.173	14°00'	8.363	8.747	8 7/8
24 1/2	.5403	1.916	1.572	1.176	12°21'	8.428	8.756	8 7/8
27 1/2	.4792	1.917	1.611	1.255	10°43'	8.389	8.685	8 7/8
29 1/2	.4493	1.858	1.572	1.238	10°19'	8.428	8.706	8 7/8
36	.7250	2.154	1.692	1.146	7°46'	8.308	8.764	8 7/8
40 RH&LH	.6600	2.016	1.596	1.100	7°30'	8.404	8.816	8 7/8
48	.5556	1.865	1.511	1.091	6°41'	8.489	8.839	8 7/8
50	.5313	1.883	1.545	1.143	6°15'	8.455	8.789	8 7/8
60 RH&LH	.4487	1.716	1.430	1.090	5°42'	8.570	8.854	8 7/8
70	.3786	1.805	1.565	1.278	4°24'	8.435	8.675	8 7/8
100	.2692	1.588	1.416	1.211	3°28'	8.584	8.755	8 7/8

Worm and Gear Data

Center Distance 6.000" Worms

Face Width 1 3/4" Gears

Actual Ratio	Circ. Pitch	Out. Dia.	Pitch. Dia.	Root. Dia.	Lead Angle	Pitch. Dia.	Throat Dia.	Out. Dia.
5 1/8 RH&LH	.7728	2.398	1.906	1.646	45°55'	10.094	10.286	10 5/8
7 2/5 RH&LH	.8571	2.451	1.905	1.479	35°36'	10.095	10.435	10 5/8
9 3/4	.8200	2.343	1.820	1.346	29°50'	10.180	10.564	10 7/8
11 2/3 RH&LH	.9069	2.457	1.879	1.383	24°46'	10.121	10.513	10 7/8
14 2/3	.7258	2.297	1.835	1.347	20°42'	10.165	10.567	10 7/8
20 1/2	.7692	2.451	1.961	1.405	14°01'	10.039	10.499	10 7/8
24 1/2 RH&LH	.6500	2.276	1.862	1.388	12°32'	10.138	10.532	10 7/8
29 1/2	.5404	2.236	1.892	1.492	10°18'	10.108	10.440	10 7/8
40 RH&LH	.7948	2.386	1.880	1.282	7°40'	10.120	10.618	10 7/8
45	.7000	2.442	1.998	1.472	6°20'	10.002	10.440	10 5/8
48	.6629	2.321	1.899	1.399	6°20'	10.101	10.517	10 7/8
50	.6377	2.257	1.851	1.369	6°15'	10.149	10.551	10 7/8
60 RH&LH	.5385	2.056	1.714	1.308	5°43'	10.286	10.624	10 7/8
70	.4651	1.934	1.636	1.282	5°10'	10.364	10.660	10 7/8

Center Distance 7.000" Worms

Face Width 1 7/8" Gears

Actual Ratio	Circ. Pitch	Out. Dia.	Pitch. Dia.	Root. Dia.	Lead Angle	Pitch. Dia.	Throat Dia.	Out. Dia.
5 1/8	.8984	2.860	2.288	1.972	45°00'	11.712	11.946	12 1/4
7 2/5 RH&LH	1.0000	2.859	2.223	1.721	35°36'	11.777	12.175	12 1/2
8 3/5	.8632	2.750	2.200	1.738	32°00'	11.800	12.168	12 1/2
9 3/4 RH&LH	.9545	2.758	2.150	1.594	29°29'	11.850	12.300	12 1/2
14 2/3	.8451	2.702	2.164	1.592	20°27'	11.836	12.306	12 1/2
19 1/2	.9456	2.860	2.258	1.580	14°56'	11.742	12.304	12 1/2
20 1/2	.8984	2.847	2.275	1.627	14°07'	11.725	12.263	12 1/2
24 1/2 RH&LH	.7571	2.673	2.191	1.637	12°24'	11.809	12.269	12 1/2
29 1/2 RH&LH	.6375	2.434	2.028	1.558	11°19'	11.972	12.362	12 1/2
35 1/2	.5404	2.236	1.892	1.492	10°18'	12.108	12.440	12 1/2
40 RH&LH	.9298	2.753	2.161	1.459	7°48'	11.839	12.419	12 1/2
50 RH&LH	.7444	2.626	2.152	1.590	6°17'	11.848	12.316	12 1/2
60	.6286	2.396	1.996	1.520	5°43'	12.004	12.400	12 1/2
70 RH&LH	.5373	2.366	2.028	1.626	4°49'	11.972	12.308	12 1/2
80	.4681	2.384	2.086	1.732	4°05'	11.914	12.210	12 1/2

Worm and Gear Data

Center Distance 8.000" Worms

Face Width 2" Gears

Actual Ratio	Circ. Pitch	Out. Dia.	Pitch. Dia.	Root. Dia.	Lead Angle	Pitch. Dia.	Throat Dia.	Out. Dia.
5 1/8 RH&LH	1.0273	3.270	2.616	2.254	45°00'	13.384	13.654	14
7 2/5 RH&LH	1.1429	3.268	2.540	1.966	35°36'	13.460	13.916	14 3/8
9 3/4 RH&LH	1.0938	3.120	2.422	1.792	29°54'	13.578	14.090	14 3/8
11 2/3 RH&LH	1.2121	3.281	2.509	1.893	24°47'	13.491	14.017	14 3/8
14 2/3 RH&LH	.9666	3.077	2.461	1.809	20°34'	13.539	14.075	14 3/8
16 2/3 RH&LH	.8437	3.109	2.571	1.949	17°24'	13.966	13.966	14 1/4
17 0/3	.8387	2.937	2.403	1.823	18°26'	13.597	14.075	14 3/8
20 1/2 RH&LH	1.0250	3.275	2.623	1.883	13°58'	13.377	13.991	14 3/8
24 1/2	.8666	3.034	2.482	1.848	12°32'	13.518	14.044	14 3/8
25 1/2	.8281	3.084	2.556	1.946	11°39'	13.444	13.971	14.234
29 1/2 RH&LH	.7381	2.608	2.138	1.612	12°24'	13.862	14.304	14 3/8
40	1.0667	3.097	2.419	1.621	7°59'	13.581	14.245	14 3/8
50	.8519	2.984	2.442	1.798	6°20'	13.558	14.094	14 3/8
59	.7187	2.959	2.502	1.972	5°14'	13.498	13.956	14 3/16
60 RH&LH	.7179	2.746	2.288	1.744	5°42'	13.712	14.166	14 3/8
70 RH&LH	.6154	2.686	2.288	1.814	4°54'	13.712	14.108	14 3/8

Center Distance 9.000" Worms

Face Width 2 1/4" Gears

Actual Ratio	Circ. Pitch	Out. Dia.	Pitch. Dia.	Root. Dia.	Lead Angle	Pitch. Dia.	Throat Dia.	Out. Dia.
5 1/8	1.1529	3.670	2.936	2.530	45°00'	15.064	15.366	15 7/8
5 5/6	1.3684	3.597	2.725	2.333	43°50'	15.275	15.541	16
7 2/6 RH&LH	1.0870	3.468	2.776	2.248	36°47'	15.224	15.640	15 7/8
9 3/4	1.2284	3.532	2.750	2.036	29°38'	15.250	15.828	16 1/8
14 2/3 RH&LH	1.0870	3.468	2.776	2.042	20°30'	15.224	15.828	16 1/8
20 1/2 RH&LH	1.1529	3.688	2.954	2.120	13°57'	15.046	15.736	16 1/8
24 1/2	.9740	3.429	2.809	2.097	12°27'	15.191	15.781	16 1/8
29 1/2	.8200	3.122	2.600	1.996	11°21'	15.400	15.902	16 1/8
36	1.3300	3.724	3.066	2.068	7°52'	14.934	15.764	16
40	1.1970	3.522	2.760	1.862	7°52'	15.240	15.988	16 1/8
50 RH&LH	.9583	3.358	2.748	2.024	6°20'	15.252	15.854	16 1/8
60	.8077	3.088	2.574	1.964	5°42'	15.426	15.934	16 1/8
70 RH&LH	.6912	3.597	2.600	2.333	4°50'	15.275	15.541	16
80	.6094	2.910	2.522	2.046	4°24'	15.478	15.864	16

Worm and Gear Data

Center Distance 10.000" Worms

Face Width 2 1/2" Gears

Actual Ratio	Circ. Pitch	Out. Dia.	Pitch. Dia.	Root. Dia.	Lead Angle	Pitch. Dia.	Throat Dia.	Out. Dia.
5 1/8 RH&LH	1.2818	4.080	3.264	2.812	45°00'	16.736	17.072	17 3/8
7 2/6 RH&LH	1.2083	3.846	3.076	2.492	36°53'	16.294	17.386	17 3/8
8 3/5	1.2375	3.841	3.053	2.535	32°49'	16.947	17.333	17 7/8
9 3/4 RH&LH	1.3654	3.920	3.050	2.258	29°41'	16.950	17.592	17 7/8
12 1/4 RH&LH	1.0833	3.795	3.105	2.407	23°58'	16.895	17.467	17 7/8
14 2/3 RH&LH	1.2083	3.846	3.076	2.260	20°34'	16.924	17.596	17 7/8
15 2/3	1.1309	3.780	3.060	2.288	19°26'	16.940	15.578	17 7/8
20 1/2 RH&LH	1.2826	4.078	3.262	2.336	14°03'	16.738	17.506	17 7/8
24 1/2 RH&LH	1.0833	3.794	3.104	2.312	12°32'	16.896	17.554	17 7/8
29 1/2	.9107	3.476	2.896	2.224	11°19'	17.104	17.662	17 7/8
32 1/2 RH&LH	.8378	3.200	2.667	2.049	11°18'	17.333	17.846	17 7/8
35 1/2	.7662	3.171	2.683	2.115	10°18'	17.317	17.789	17 7/8
39 1/2	.6842	3.216	2.780	2.268	8°55'	17.220	17.646	17 7/8
40	1.3300	3.916	3.066	2.068	7°52'	16.934	17.764	17 7/8
47	1.1309	3.780	3.060	2.208	6°43'	16.940	17.650	17 7/8
50 RH&LH	1.0645	3.736	3.058	2.254	6°19'	16.942	17.612	17 7/8
60	.8974	3.432	2.860	2.180	5°42'	17.140	17.706	17 7/8
70 RH&LH	.7667	3.404	2.918	2.338	4°47'	17.082	17.564	17 7/8
80	.6757	3.230	2.800	2.286	4°24'	17.200	17.678	17 7/8

Center Distance 12.000" Worms

Face Width 3" Gears

Actual Ratio	Circ. Pitch	Out. Dia.	Pitch. Dia.	Root. Dia.	Lead Angle	Pitch. Dia.	Throat Dia.	Out. Dia.
5 1/9 RH&LH	1.3949	4.440	3.552	3.144	48°22'	20.448	20.738	21
6 5/6	1.5625	4.597	3.603	3.025	39°40'	20.397	20.823	21
7 2/6	1.4503	4.610	3.688	2.988	36°54'	20.302	20.864	21
9 3/4	1.6389	4.699	3.655	2.705	29°43'	20.345	21.113	21 5/8
11 1/4	1.4300	4.414	3.504	2.638	27°27'	20.496	21.202	21 5/8
12 1/4	1.3214	4.210	3.368	2.628	26°34'	20.632	21.222	21 5/8
13 1/3	1.5959	4.699	3.683	2.681	22°29'	20.317	21.179	21 5/8
14 2/3 RH&LH	1.4503	4.612	3.688	2.708	20°35'	20.312	21.118	21 5/8
20 1/2 RH&LH	1.5550	4.689	3.699	2.585	14°59'	20.301	21.223	21 5/8
24 1/2 RH&LH	1.3000	4.552	3.724	2.774	12°32'	20.276	21.064	21 5/8
29 1/2 RH&LH	1.0933	4.163	3.467	2.663	11°21'	20.533	21.201	21 5/8
40 RH&LH	1.5960	4.696	3.680	2.732	7°52'	20.320	21.066	21 5/8
50 RH&LH	1.2787	4.463	3.649	2.683	6°22'	20.351	21.155	21 5/8
60	1.0776	4.106	3.420	2.604	5°44'	20.580	21.258	21 5/8
70	.9299	3.878	3.282	2.572	5°09'	20.718	21.310	21 5/8
80	.8200	3.654	3.132	2.510	4°46'	20.868	21.836	21 5/8

Worm and Gear Data

Center Distance 14.000" Worms

Face Width 3 1/4" Gears

Actual Ratio	Circ. Pitch	Out. Dia.	Pitch. Dia.	Root. Dia.	Lead Angle	Pitch. Dia.	Throat Dia.	Out. Dia.
5 1/10	1.4667	5.137	4.203	3.763	48°01'	23.797	24.113	24 3/4
6 5/8	1.4200	4.972	4.068	3.568	41°38'	23.932	24.298	24 3/4
7 3/7 RH&LH	1.4604	4.766	3.836	3.250	40°19'	24.164	24.608	25 1/4
9 4/5	1.5294	5.114	4.140	3.362	30°28'	23.860	24.470	25
14 3/4	1.2750	4.872	4.060	3.214	21°48'	23.940	24.636	25 1/4
15 1/4	1.2315	4.851	4.067	3.241	21°05'	23.933	24.613	25
16 1/3	1.5333	5.026	4.050	3.006	19°52'	23.950	24.810	25 1/4
16 2/3	1.5051	5.030	4.072	3.044	19°26'	23.928	24.776	25 1/4
19 2/3	1.2745	4.872	4.060	3.160	16°42'	23.940	24.684	25 1/4
24 1/2	1.5294	5.114	4.140	3.028	13°14'	23.860	24.782	25 1/4
26 1/2	1.4200	4.972	4.068	3.030	12°32'	23.932	24.794	25 1/4
29 1/2 RH&LH	1.2750	4.872	4.060	3.120	11°19'	23.940	24.720	25 1/4
39 1/2 RH&LH	.9615	4.437	3.825	3.107	9°5'	24.175	24.771	25 1/4
50	1.5057	5.030	4.072	2.938	6°43'	23.928	24.872	25 1/4
60 RH&LH	1.2564	4.800	4.000	3.048	5°43'	24.000	24.792	25 1/4
70	1.0833	4.571	3.881	3.059	5°05'	24.119	24.803	25 1/4
79	.9615	4.437	3.825	3.095	4°34'	24.175	24.783	25 1/4

Center Distance 17.000" Worms

Face Width 3 3/4" Gears

Actual Ratio	Circ. Pitch	Out. Dia.	Pitch. Dia.	Root. Dia.	Lead Angle	Pitch. Dia.	Throat Dia.	Out. Dia.
5 1/10	1.7800	6.237	5.103	4.569	48°01'	28.897	29.281	30
6 3/8	1.7800	6.238	5.104	4.374	41°36'	28.896	29.458	30 1/4
7 3/7	1.7619	6.020	4.900	4.150	38°40'	29.100	29.676	30 1/2
8 2/7	1.5555	6.200	5.208	4.384	33°41'	28.792	29.450	30
9 1/7	1.4350	5.685	4.771	4.015	33°50'	29.229	29.833	30 1/2
9 4/5	1.8571	6.206	5.024	4.082	30°28'	28.976	29.714	30 1/2
12 3/4	1.7949	6.004	4.862	3.730	25°11'	29.138	30.064	30
14 3/4	1.5500	5.916	4.930	3.902	21°48'	29.070	29.914	30 1/2
16 1/3 RH&LH	1.8518	6.332	5.154	3.882	18°55'	28.846	29.896	30 1/2
19 2/3	1.5746	5.916	4.930	3.840	16°42'	29.070	29.972	30 1/2
21 1/3	1.4333	5.712	4.800	3.782	15°55'	29.200	30.042	30 1/2
22 1/3	1.3666	5.764	4.894	3.914	14°56'	29.106	29.918	30 1/2
24 1/2	1.8571	6.206	5.024	3.674	13°14'	28.976	30.096	30 1/2
29 1/2	1.5500	5.916	4.930	3.788	11°19'	29.070	30.018	30 1/2
39 1/2 RH&LH	1.1951	5.394	4.650	3.778	9°17'	29.350	30.076	30 1/2
50 RH&LH	1.8250	6.101	4.939	3.563	6°43'	29.061	30.207	30 1/2
60 RH&LH	1.5250	5.832	4.860	3.704	5°43'	29.140	30.102	30 1/2
70	1.3044	5.810	4.980	3.990	4°46'	29.020	29.844	30 1/2

Worm and Gear Data

Center Distance 18.000" Worms

Face Width 4" Gears

Actual Ratio	Circ. Pitch	Out. Dia.	Pitch. Dia.	Root. Dia.	Lead Angle	Pitch. Dia.	Throat Dia.	Out. Dia.
6 4/7	2.0851	6.806	5.478	4.798	40°19'	30.522	31.000	32
7 3/5	2.5125	7.200	5.600	4.560	35°32'	30.400	31.244	32
8 3/5	2.2145	7.058	5.646	4.426	31°59'	30.354	31.336	32
9 4/5 RH&LH	1.9666	6.573	5.321	4.321	30°28'	30.679	31.463	32
12 1/4 RH&LH	2.0000	6.446	5.172	3.932	26°13'	30.829	31.840	32
14 3/4 RH&LH	1.6250	6.475	5.439	4.345	20°51'	30.561	31.461	32
17 1/3 RH&LH	1.8333	6.705	5.539	4.259	17°32'	30.461	31.619	32
24 1/2	1.9500	6.831	5.589	4.179	12°32'	30.411	31.591	32
26 1/2	1.8333	6.705	5.539	4.195	11°57'	30.461	31.577	32
32 1/2	1.4828	6.490	5.546	4.442	9°40'	30.454	31.372	32
35 1/2	1.3750	6.337	5.463	4.439	9°05'	30.534	31.389	32
44	2.1500	7.184	5.814	4.194	6°43'	30.186	31.534	32
53	1.8065	6.613	5.463	4.097	6°01'	30.537	31.675	32
62	1.5357	6.724	5.746	4.580	4°52'	30.254	31.226	32
70	1.3696	6.322	5.450	4.410	4°34'	30.550	31.316	32

Center Distance 20.000" Worms

Face Width 4" Gears

Actual Ratio	Circ. Pitch	Out. Dia.	Pitch. Dia.	Root. Dia.	Lead Angle	Pitch. Dia.	Throat Dia.	Out. Dia.
5 1/10	2.1111	7.056	5.712	5.142	49°38'	34.288	34.684	35 1/2
7 3/7	2.0857	6.806	5.478	4.798	40°19'	34.522	35.000	36
9 4/5	2.2143	6.874	5.464	4.514	32°50'	34.536	35.250	36
11 2/5 RH&LH	1.9666	6.573	5.321	4.321	30°28'	34.679	35.463	36
14 3/4	1.8333	6.716	5.548	4.348	22°50'	34.452	35.436	36
19 2/3 RH&LH	1.8333	6.705	5.539	4.259	17°32'	34.461	35.519	36
24 1/2	2.2143	6.874	5.464	3.870	14°28'	34.536	35.856	36
27 1/2	1.9636	6.875	5.625	4.191	12°32'	34.375	35.565	36
29 1/2	1.8333	6.705	5.539	4.195	11°57'	34.461	35.517	36
32 1/2	1.6522	6.838	5.786	4.562	10°18'	34.214	35.232	36
36 1/2	1.4828	6.490	5.546	4.442	9°40'	34.454	35.372	36
39 1/2	1.3750	6.337	5.463	4.439	9°05'	34.537	35.389	36
50	2.1500	7.184	5.814	4.194	6°43'	34.186	35.534	36
60	1.8065	6.613	5.463	4.097	6°01'	34.537	35.675	36
70	1.5357	6.724	5.746	4.580	4°52'	34.254	35.226	36

Worm and Gear Data

Center Distance 21.837" Worms

Face Width 5" Gears

Actual Ratio	Circ. Pitch	Out. Dia.	Pitch. Dia.	Root. Dia.	Lead Angle	Pitch. Dia.	Throat Dia.	Out. Dia.
6 1/9 RH&LH	2.0800	8.606	7.282	6.354	39°17'	36.392	37.116	37 3/4
6 5/8	2.1552	8.918	7.546	6.478	36°02'	36.128	36.974	37 3/4
7 2/7 RH&LH	2.2666	8.303	6.859	5.845	36°23'	36.815	37.679	38 3/8
7 6/7	2.0645	8.870	7.556	6.402	31°20'	36.118	37.048	37 3/4
8 5/6 RH&LH	2.1552	8.918	7.546	6.286	28°37'	36.128	37.166	37 3/4
10 1/4	2.8235	8.550	6.750	5.200	28°04'	39.924	38.156	39 1/4
11 1/4	2.5714	8.584	6.950	5.334	25°12'	36.724	38.044	39 1/4
11 3/4 RH&LH	2.4375	8.739	7.187	5.605	23°23'	36.487	37.785	38 9/16
13 1/4 RH&LH	2.1750	8.996	7.612	6.134	19°59'	36.062	37.280	37 3/4
13 2/3 RH&LH	2.8333	8.501	6.697	4.821	22°01'	36.977	38.519	37 3/4
17 2/3	2.1458	9.050	7.684	6.146	14°56'	35.990	37.264	37 3/4
19 2/3 RH&LH	1.9200	8.860	7.638	6.246	13°30'	36.036	37.190	37 3/4
22 1/3	1.7179	8.615	7.521	6.263	12°18'	36.153	37.197	37 3/4
23 1/3	1.6222	8.514	7.482	6.290	11°41'	36.192	37.182	37 3/4
26 1/2	2.1552	8.918	7.546	6.106	10°18'	36.128	37.298	37 3/4
35 1/2	1.6053	8.687	7.665	6.459	7°36'	36.009	37.013	37 3/4
45	2.5352	9.080	7.666	6.268	6°01'	36.008	37.204	37 3/4
50	2.2500	9.296	7.864	6.158	5°12'	35.810	37.230	37 3/4
63	1.8065	8.912	7.762	6.388	4°14'	35.912	37.056	37 3/4
71	1.6061	8.431	7.409	6.187	3°57'	36.165	37.181	37 3/4

Center Distance 24.000" Worms

Face Width 5 1/2" Gears

Actual Ratio	Circ. Pitch	Out. Dia.	Pitch. Dia.	Root. Dia.	Lead Angle	Pitch. Dia.	Throat Dia.	Out. Dia.
4 1/12 RH&LH	2.5217	10.238	8.632	7.882	48°09'	39.368	39.904	41
5 1/10 RH&LH	2.4500	9.750	8.190	7.266	43°36'	39.810	40.510	41 1/2
6 8/9 RH&LH	2.0800	8.606	7.284	6.354	39°17'	40.718	41.442	42
7 3/8	2.1552	8.918	7.546	6.478	36°03'	40.454	41.300	42
7 6/7	2.3571	8.250	6.750	5.810	37°52'	41.250	41.990	42 1/2
8 1/7 RH&LH	2.2666	8.303	6.859	5.895	36°23'	41.141	42.005	42 1/2
9 5/6 RH&LH	2.1552	8.918	7.546	6.268	28°37'	40.454	41.492	42
10 1/5 RH&LH	2.4375	10.075	8.525	6.975	24°27'	39.475	40.745	41 1/2
14 3/4 RH&LH	2.1750	8.996	7.612	6.134	19°59'	40.338	41.606	42
17 2/3	2.3750	9.450	7.938	6.252	15°57'	40.062	41.458	42
19 2/3	2.1458	9.050	7.684	6.146	14°56'	40.316	41.590	42
22 1/3	1.9200	9.000	7.800	6.432	13°14'	40.200	41.408	42
24 2/3	1.7179	8.615	7.521	6.263	12°18'	40.479	41.523	42
26 1/2	2.3750	9.450	7.938	6.182	10°47'	40.062	41.552	42
29 1/2	2.1552	8.918	7.546	6.106	10°18'	40.454	41.624	42
39 1/2	1.6053	8.687	7.665	6.459	7°36'	40.335	41.339	42
41	3.1250	9.206	7.216	5.068	7°51'	40.784	42.738	43 1/2
44 1/2	1.4706	7.254	6.318	5.238	8°26'	41.682	42.618	43
50	2.5555	8.948	7.320	5.720	6°20'	40.680	42.130	42 3/4
60	2.1017	9.198	7.860	6.266	4°52'	40.140	41.468	42
70	1.8065	8.912	7.762	6.388	4°14'	40.238	41.382	42
89	1.4231	8.606	7.700	6.618	3°22'	40.300	41.202	42

Worm and Gear Data

Center Distance 26.500" Worms

Face Width 5 3/4 - 6 3/4" Gears

Actual Ratio	Circ. Pitch	Out. Dia.	Pitch. Dia.	Root. Dia.	Lead Angle	Pitch. Dia.	Throat Dia.	Out. Dia.
4 1/12	2.7188	11.831	10.595	9.209	44°26'	42.405	43.641	44 1/4
5 7/10	2.4500	9.750	8.190	7.266	43°6'	44.810	45.510	46
6 3/8 RH&LH	2.7500	10.074	8.322	7.246	40°6'	44.678	45.486	46
7 3/8 RH&LH	2.3780	9.841	8.327	7.149	36°2'	44.673	45.651	46
7 7/9 RH&LH	2.0800	8.606	7.282	6.354	39°17'	45.718	46.442	47
9 1/5 RH&LH	3.0857	9.820	7.856	6.476	32°0'	45.144	46.190	47
11 2/5 RH&LH	2.4375	10.075	8.525	6.975	24°27'	44.475	45.745	46
16 1/4 RH&LH	2.1750	8.996	7.612	6.134	19°59'	45.388	46.606	47
20 1/3	2.3750	9.450	7.938	6.252	15°57'	45.062	46.574	47
21 1/3	2.1929	9.772	8.376	6.864	14°2'	44.624	45.936	47
22 1/3	2.1458	9.050	7.684	6.146	14°56'	45.316	46.590	47
23 2/3 LH	1.9688	9.505	8.253	6.851	12°50'	44.747	45.999	47
24 1/2 RH&LH	2.8966	9.341	7.837	6.053	13°14'	45.163	46.709	47
29 1/3	1.6667	8.514	7.482	6.290	12°1'	45.518	46.508	47
30 1/2 RH&LH	2.3414	10.058	8.568	6.836	9°52'	44.432	45.876	46
34 1/2	2.0500	9.780	8.476	6.944	8°45'	44.524	45.798	46
37 1/2	1.9777	8.612	7.380	5.940	9°41'	45.620	46.816	47
50	2.8000	10.247	8.465	6.551	6°0'	44.535	46.299	46 1/2
51	2.7419	9.840	8.294	6.620	6°1'	44.706	46.032	47
60	2.3125	9.936	8.464	6.850	4°58'	44.536	45.996	47
100	1.4231	8.606	7.700	6.618	3°22'	45.300	46.202	48 1/4

Center Distance 27.000" Worms

Face Width 5 3/4 - 6 3/4" Gears

Actual Ratio	Circ. Pitch	Out. Dia.	Pitch. Dia.	Root. Dia.	Lead Angle	Pitch. Dia.	Throat Dia.	Out. Dia.
4 7/11 RH&LH	2.7000	11.887	10.169	9.119	42°55'	43.831	44.629	45 1/4
5 7/9 RH&LH	2.7469	10.280	8.532	7.532	42°41'	45.468	46.290	47
6 5/8 RH&LH	2.7500	10.074	8.322	7.246	40°06'	45.678	46.486	47 1/2
7 5/8 RH&LH	2.3781	9.841	8.327	7.149	36°01'	45.673	46.651	47 1/2
8 5/6 RH&LH	2.7428	10.258	8.512	6.994	31°36'	45.488	46.708	47 1/2
9 2/5	3.0857	9.820	7.856	6.476	32°00'	46.144	47.190	48
11 4/5 RH&LH	2.4375	10.075	8.525	6.975	24°27'	45.475	46.745	47 1/2
15 1/4	2.3750	9.440	7.930	6.334	20°51'	46.070	47.384	48
16 3/4 RH&LH	2.1750	8.996	7.612	6.134	19°59'	46.388	47.606	48
17 1/3	2.7500	10.074	8.322	6.398	17°32'	45.678	47.268	48
19 1/3	2.4848	9.744	8.120	6.324	16°17'	45.880	47.366	48
19 2/3 LH	2.4688	9.207	7.637	5.917	17°09'	46.363	47.933	48 1/4
21 2/3	2.1929	9.772	8.376	6.782	14°02'	45.624	46.936	47 1/2
22 2/3	2.1538	9.450	8.100	6.570	14°15'	45.900	47.170	48
24 1/3	2.0303	9.034	7.766	6.326	14°01'	46.234	47.428	48
29 1/2	2.4412	9.712	8.158	6.354	10°47'	45.842	47.340	48
30 1/2 RH&LH	2.3414	10.058	8.568	6.836	9°52'	45.432	46.876	47 1/2
35 1/2 RH&LH	2.0500	9.780	8.476	6.944	8°45'	45.524	46.798	47 1/2
37 1/2 RH&LH	1.9231	9.364	8.140	6.744	8°33'	45.860	47.058	47 7/8
45	3.1948	9.970	8.136	6.216	7°08'	45.864	47.580	48
51	2.8000	10.247	8.465	6.551	6°00'	45.535	47.299	48
53	2.7018	10.105	8.385	6.341	5°51'	45.615	47.317	48
62	2.3125	9.936	8.464	6.850	4°58'	45.536	46.996	47 1/2

Worm and Gear Data

Center Distance 28.000" Worms

Face Width 5 3/4" - 6 1/2" Gears

Actual Ratio	Circ. Pitch	Out. Dia.	Pitch. Dia.	Root. Dia.	Lead Angle	Pitch. Dia.	Throat Dia.	Out. Dia.
6 7/8	2.7500	10.074	8.322	7.246	40°6'	47.678	48.486	49 1/2
7 7/8 RH&LH	2.3781	9.841	8.327	7.149	36°2'	47.673	48.651	50
9 1/6	2.7428	10.258	8.512	6.994	31°36'	47.488	48.708	49 1/2
9 4/5	3.0857	9.820	7.856	6.476	32°0'	48.144	49.190	50 1/8
13 1/4	2.7500	10.074	8.322	6.522	22°50'	47.678	49.156	50
16 2/3	2.9091	11.575	9.723	7.771	15°57'	46.227	47.937	49
17 2/3	2.7500	10.074	8.322	6.398	17°32'	47.678	49.268	50
19 2/3	2.6078	9.744	8.120	6.324	17°3'	47.880	49.366	50
22 2/3	2.1929	9.772	8.376	6.792	14°2'	47.624	48.936	49 1/2
23 2/3	2.1538	9.450	8.100	6.570	14°15'	47.900	49.170	49 3/4
25 1/3	2.0303	9.034	7.766	6.326	14°1'	48.234	49.428	50
26 1/2	2.7500	10.074	8.322	6.302	11°53'	47.678	49.430	50 1/4
31 1/3	1.6667	8.514	7.480	6.290	12°1'	48.518	49.508	50
36 1/2	2.0500	9.780	8.476	6.944	8°45'	47.524	48.798	49 1/2
39 1/2	1.9777	8.612	7.380	5.940	9°41'	48.620	49.816	50
40	3.6250	12.126	9.820	7.620	6°43'	46.180	48.230	49
47	3.1948	9.970	8.136	6.216	7°8'	47.864	49.580	50
56	2.7018	10.105	8.385	6.341	5°51'	47.615	49.317	50
65	2.3125	9.936	8.464	6.850	4°58'	47.536	48.996	50

Center Distance 30.000" Worms

Face Width 6" Gears

Actual Ratio	Circ. Pitch	Out. Dia.	Pitch. Dia.	Root. Dia.	Lead Angle	Pitch. Dia.	Throat Dia.	Out. Dia.
6 5/9 RH&LH	2.7469	10.280	8.532	7.532	42°41'	51.468	52.290	53
7 3/8 RH&LH	2.7500	10.074	8.322	7.246	40°06'	51.678	52.486	53 1/2
8 5/8 RH&LH	2.3781	9.841	8.327	7.149	36°01'	51.673	52.651	53 1/2
9 5/6 RH&LH	2.7428	10.258	8.512	6.994	31°36'	51.488	52.708	53 1/2
14 1/4 RH&LH	2.8646	9.804	7.980	6.456	24°34'	52.020	53.214	54 1/8
14 3/4	2.7500	10.074	8.322	6.522	22°50'	51.678	53.156	54
17 1/3	3.1205	10.330	8.344	6.390	19°39'	51.656	53.410	54
19 2/3	2.7500	10.074	8.322	6.398	17°32'	51.678	56.268	54
24 2/3	2.1929	9.772	8.376	6.782	14°02'	51.624	52.936	53 3/4
29 1/2	2.7500	10.074	8.322	6.302	11°53'	51.678	53.354	54
34 1/2 RH&LH	2.3414	10.058	8.568	6.836	9°52'	51.432	52.876	53 1/2
39 1/2	2.0500	9.780	8.476	6.944	8°45'	51.524	52.798	53 3/4
50	3.1667	11.586	9.570	7.404	6°00'	50.430	52.430	53 1/2
51	3.1948	9.970	8.136	6.216	7°08'	51.864	53.580	54
60	2.7018	10.105	8.385	6.341	5°51'	51.615	53.317	54
70	2.3125	9.936	8.464	6.850	4°58'	51.536	52.996	54

Worm and Gear Data

Center Distance 36.000" Worms

Face Width 6 1/2" Gears

Actual Ratio	Circ. Pitch	Out. Dia.	Pitch. Dia.	Root. Dia.	Lead Angle	Pitch. Dia.	Throat Dia.	Out. Dia.
10 1/7 RH&LH	2.7742	11.038	9.272	7.806	33°41'	62.728	63.900	64 3/4
11 2/5 RH&LH	3.4888	11.378	9.158	7.502	31°13'	62.842	64.118	64 3/4
13 1/2	2.9777	11.376	9.480	7.640	26°34'	62.520	64.020	64 3/4
14 1/4 RH&LH	3.4375	11.771	9.581	7.389	24°34'	62.419	64.213	65 1/4
15 1/5	2.5854	11.110	9.464	7.790	23°30'	62.536	63.908	64 3/4
20 1/4	2.4194	11.165	9.625	7.937	17°45'	62.375	63.769	64 3/4
23 1/3 RH&LH	2.8105	11.641	9.851	7.843	15°14'	62.149	63.957	64 3/4
25 1/3	2.5854	11.110	9.464	7.606	14°37'	62.536	64.076	64 3/4
26 2/3	2.4545	11.058	9.496	7.722	13°52'	62.504	63.974	64 3/4
29 2/3	2.2051	10.881	9.477	7.865	12°32'	62.523	63.861	64 3/4
39 1/2	2.4848	11.074	9.492	7.640	9°28'	62.508	64.048	64 3/4
49 1/2	1.9846	10.744	9.480	7.988	7°36'	62.520	63.762	64 3/4
73	2.7419	9.840	8.294	6.620	6°01'	63.706	65.032	65 5/8
75	2.6182	11.000	9.333	7.540	5°06'	62.667	64.198	65

Center Distance 42.000" Worms

Face Width 7" Gears

Actual Ratio	Circ. Pitch	Out. Dia.	Pitch. Dia.	Root. Dia.	Lead Angle	Pitch. Dia.	Throat Dia.	Out. Dia.
10 1/8	2.8529	12.258	10.442	8.978	34°49'	73.558	74.722	75 3/4
14 1/6	2.7027	11.970	10.260	8.606	26°42'	73.740	75.194	75 3/4
22 3/4	2.5417	12.044	10.426	8.644	17°15'	73.574	75.046	75 3/4
25 1/3	3.0345	12.558	10.626	8.458	15°15'	73.374	75.168	75 3/4
29 2/3	2.5882	12.350	10.712	8.826	12°59'	73.288	74.852	75 3/4
34 1/2	3.3214	13.212	11.098	8.760	10°47'	72.902	74.942	75 3/4
39 1/2	2.9155	12.528	10.672	8.506	9°52'	73.328	75.128	75 3/4
49 1/2	2.3333	11.888	10.402	8.652	8°08'	73.598	75.054	75 3/4
59 1/2	1.9412	11.742	10.506	9.042	6°43'	73.494	74.712	75 3/4

Center Distance 48.000" Worms

Face Width 7 1/2" Gears

Actual Ratio	Circ. Pitch	Out. Dia.	Pitch. Dia.	Root. Dia.	Lead Angle	Pitch. Dia.	Throat Dia.	Out. Dia.
10 1/9	2.9565	12.233	10.351	9.029	39°17'	85.649	86.681	88
16 5/6	2.7027	11.970	10.260	8.606	26°42'	85.740	87.194	88
20 1/5	2.6705	11.800	10.200	8.448	22°37'	85.800	87.238	88
25 1/4	2.6705	11.800	10.200	8.352	18°26'	85.800	87.324	88
29 2/3	3.0345	12.558	10.626	8.458	15°15'	85.374	87.168	88
34 1/3	2.5882	12.350	10.712	8.826	12°59'	85.288	86.852	88
40 1/2	3.3214	13.312	11.098	8.760	10°47'	84.902	86.942	88
49 1/2	2.7174	12.110	10.380	8.254	9°28'	85.620	87.304	88
57 1/2	2.333	11.888	10.402	8.652	8°08'	85.598	87.054	88
69 1/2	1.9412	11.742	10.506	9.042	6°43'	85.494	86.712	88