

# Triple Reduction

## Worm / Worm / Worm Rating Table

		Size 213		Size 215		Size 218		Size 220		Size 224	
Ratio	Output Speed (RPM)*	Input H.P.*	Output Torque (In. Lbs.)	Input H.P.*	Output Torque (In. Lbs.)	Input H.P.*	Output Torque (In. Lbs.)	Input H.P.*	Output Torque (In. Lbs.)	Input H.P.*	Output Torque (In. Lbs.)
1000	1.75	.0226	339	.0429	566	.0416	688	.0667	1127	.106	1801
1500	1.17	.0191	349	.0323	568	.0385	716	.0560	1132	.0905	1821
2000	.875	.0137	340	.0263	569	.0249	690	.0400	1132	.0639	1809
3000	.583	.0116	351	.0186	570	.0222	718	.0322	1137	.0523	1830
4000	.438	.0078	340	.0151	570	.0141	691	.0227	1134	.0363	1814
5000	.350	.0073	351	.0135	571	.0126	692	.0202	1134	.0324	1815
6000	.292	.0067	352	.0122	571	.0147	720	.0212	1139	.0345	1834
7500	.233	.0060	352	.0108	571	.0118	720	.0171	1139	.0278	1835
10000	.175	.0043	351	.0080	571	.0074	692	.0019	1135	.0190	1816
12000	.146	.0039	352	.0073	571	.0087	721	.0126	1140	.0205	1837
15000	.117	.0035	352	.0062	571	.0074	721	.0107	1140	.0174	1837
20000	.0875	.0030	351	.0053	571	.0048	692	.0077	1136	.0124	1817
24000	.0729	.0027	352	.0048	571	.0057	721	.0082	1141	.0134	1838
30000	.0583	.0023	352	.0042	572	.0050	721	.0071	1141	.0117	1838
40000	.0438	.0020	351	.0035	572	.0033	692	.0052	1136	.0083	1818
50000	.0350	.0017	351	.0031	572	.0028	692	.0045	1136	.0071	1818
60000	.0292	.0016	352	.0029	572	.0035	721	.0050	1141	.0081	1838
75000	.0233	.0014	352	.0026	571	.0028	721	.0040	1141	.0065	1838
80000	.0219	.0013	338	.0027	567	.0022	687	.0035	1127	.0056	1804
90000	.0194	.0013	352	.0024	571	.0026	721	.0037	1141	.0060	1838
100000	.0175	.0011	338	.0023	567	.0019	687	.0030	1127	.0049	1804
120000	.0146	.0010	338	.0022	567	.0018	687	.0029	1127	.0046	1804
150000	.0117	.0008	317	.0019	548	.0015	644	.0027	1038	.0039	1711
180000	.0097	.0008	317	.0018	548	.0014	644	.0025	1038	.0035	1711
216000	.0081	.0007	305	.0016	518	.0012	611	.0020	1038	.0027	1511
<b>Low Speed Shaft Overhung Load</b>		700 Lbs.		860 Lbs.		1200 Lbs.		1265 Lbs.		1770 Lbs.	

\*Output speed and input HP ratings based on 1750 RPM input speed.

Note: At speeds above 1750 RPM, units may become thermally limited. For extended operation, limit input HP to 1750 RPM catalog rating.

All torque values listed in inch-pounds. The point of application of the overhung load is considered to be one shaft diameter measured outward from the gear case housing. See page 122 for extended bearing (Styles TFE, TFEM & TFEMQ) and input shaft overhung load (OHL) capacity.

# Triple Reduction

## Worm / Worm / Worm Rating Table

		Size 226		Size 230		Size 232		Size 242		Size 252	
Ratio	Output Speed (RPM)*	Input H.P.*	Output Torque (In. Lbs.)	Input H.P.*	Output Torque (In. Lbs.)	Input H.P.*	Output Torque (In. Lbs.)	Input H.P.*	Output Torque (In. Lbs.)	Input H.P.*	Output Torque (In. Lbs.)
1000	1.75	.136	2338	.220	3666	.291	4918	.551	10458	1.06	19143
1500	1.17	.101	2396	.170	3736	.239	5134	.376	10517	.764	19628
2000	.875	.0816	2400	.140	3688	.184	4949	.325	10547	.621	19712
3000	.583	.0572	2404	.109	3758	.153	5169	.222	10576	.490	19801
4000	.438	.0462	2406	.0810	3700	.107	4965	.184	10592	.360	19839
5000	.350	.0413	2407	.0706	3767	.0934	4968	.154	10600	.317	19919
6000	.292	.0372	2408	.0635	3769	.0898	5187	.125	10607	.288	19927
7500	.233	.0299	2408	.0557	3771	.0788	5190	.105	10615	.233	19961
10000	.175	.0241	2409	.0420	3773	.0550	4975	.0931	10618	.188	19980
12000	.146	.0219	2409	.0378	3775	.0537	5196	.0726	10621	.171	19990
15000	.117	.0186	2410	.0329	3775	.0467	5197	.0621	10625	.148	20002
20000	.0875	.0157	2410	.0305	3776	.0354	4978	.0589	10627	.122	20016
24000	.0729	.0142	2411	.0275	3777	.0391	5200	.0472	10628	.111	20024
30000	.0583	.0124	2411	.0212	3779	.0301	5200	.0395	10631	.0945	20029
40000	.0438	.0105	2411	.0199	3777	.0271	4979	.0387	10631	.0780	20030
50000	.0350	.0091	2411	.0180	3777	.0238	4979	.0334	10631	.0676	20030
60000	.0292	.0086	2411	.0162	3779	.0231	5202	.0258	10631	.0618	20039
75000	.0233	.0071	2346	.0143	3779	.0203	5202	.0270	10606	.0538	20039
80000	.0219	.0070	2393	.0140	3682	.0182	4941	.0262	10551	.0539	19801
90000	.0194	.0065	2346	.0128	3779	.0182	5202	.0256	10606	.0488	20039
100000	.0175	.0060	2393	.0123	3682	.0160	4941	.0226	10551	.0469	19801
120000	.0146	.0057	2393	.0110	3682	.0144	4941	.0214	10551	.0425	19801
150000	.0117	.0047	2250	.0096	3622	.0119	4665	.0176	9930	.0380	19210
180000	.0097	.0043	2250	.0093	3622	.0115	4665	.0165	9930	.0345	19210
216000	.0081	.0036	2088	.0082	3438	.0097	4341	.0139	9215	.0308	18232
<b>Low Speed Shaft Overhung Load</b>		1625 Lbs.		2170 Lbs.		2275 Lbs.		3200 Lbs.		3560 Lbs.	

\*Output speed and input HP ratings based on 1750 RPM input speed.

Note: At speeds above 1750 RPM, units may become thermally limited. For extended operation, limit input HP to 1750 RPM catalog rating.

All torque values listed in inch-pounds. The point of application of the overhung load is considered to be one shaft diameter measured outward from the gear case housing. See page 122 for extended bearing (Styles TFE, TFEM & TFEMQ) and input shaft overhung load (OHL) capacity.

**GROVE GEAR**

Davis Industries, Inc. Phone & Fax: 800-577-0559 E-mail: sales@davis-ohio.com

# Triple Reduction

## Worm / Worm / Worm Rating Table

		Size 2600		Size 2700		Size 2800		Size 21000	
Ratio	Output Speed (RPM)*	Input H.P.*	Output Torque (In. Lbs.)	Input H.P.*	Output Torque (In. Lbs.)	Input H.P.*	Output Torque (In. Lbs.)	Input H.P.*	Output Torque (In. Lbs.)
1000	1.75	1.39	25846	1.61	34294	2.22	49201	3.88	87344
1500	1.17	1.02	26096	1.20	35310	1.61	49646	2.82	88338
2000	.875	.810	26222	.949	35450	1.28	49870	2.27	88838
3000	.583	.560	26349	.732	35591	.909	50096	1.61	89342
4000	.438	.479	26413	.555	35661	.717	50210	1.29	89595
5000	.350	.421	26519	.471	35703	.605	50276	1.11	89747
6000	.292	.375	26476	.431	35732	.518	50323	.931	89850
7500	.233	.330	26583	.366	35757	.441	50374	.805	89950
10000	.175	.257	26614	.284	35788	.347	50412	.631	90052
12000	.146	.234	26560	.232	35800	.307	50432	.550	90100
15000	.117	.203	26644	.223	35816	.270	50465	.478	90150
20000	.0875	.168	26666	.183	35830	.224	50475	.395	90200
24000	.0729	.153	26610	.149	35837	.197	50490	.356	90230
30000	.0583	.135	26680	.146	35840	.167	50505	.298	90250
40000	.0438	.115	26687	.115	35849	.141	50510	.276	90271
50000	.0350	.0966	26687	.105	35849	.120	50510	.236	90271
60000	.0292	.0897	26687	.0974	35849	.109	50510	.209	90271
75000	.0233	.0783	26687	.0850	34958	.0920	48811	.176	87449
80000	.0219	.0768	26382	.0762	34265	.0863	47939	.168	85428
90000	.0194	.0706	26687	.0767	34958	.0825	48811	.163	87449
100000	.0175	.0673	26382	.0669	34265	.0734	47939	.143	85428
120000	.0146	.0622	26382	.0618	34265	.0669	47939	.127	85428
150000	.0117	.0555	25595	.0531	33090	.0582	46634	.110	82880
180000	.0097	.0501	25595	.0531	33090	.0582	46634	.102	82880
216000	.0081	.0449	24233	.0380	29790	.0412	41882	.0814	75016
<b>Low Speed Shaft Overhung Load</b>		3723 Lbs.		6209 Lbs.		7761 Lbs.		11028 Lbs.	

\*Output speed and input HP ratings based on 1750 RPM input speed.

Note: At speeds above 1750 RPM, units may become thermally limited. For extended operation, limit input HP to 1750 RPM catalog rating.

All torque values listed in inch-pounds. The point of application of the overhung load is considered to be one shaft diameter measured outward from the gear case housing. See page 122 for extended bearing (Styles TFE, TFEM & TFEMQ) and input shaft overhung load (OHL) capacity.