

# SINGLE REDUCTION

With Mobil Glygoyle 460 Lubricant



3.500 CENTER DISTANCE			HORSEPOWER AND TORQUE RATINGS							OVERHUNG LOAD CAPACITIES (lb)			THRUST LOAD CAPACITIES (lb)	
RATIO <sup>1</sup>	INPUT RPM <sup>2</sup>	OUTPUT RPM	MECHANICAL							INPUT SHAFT ALL SHAFT INPUT MODELS	OUTPUT SHAFT <sup>5,6</sup>		OUTPUT SHAFT <sup>6</sup>	
			1.00 SERVICE FACTOR			1.25 SERVICE FACTOR		1.50 SERVICE FACTOR			SOLID <sup>3</sup> SHAFT (e.g. MDNS)	HOLLOW <sup>4</sup> SHAFT (e.g. MDSS)	SOLID SHAFT (e.g. MDNS)	HOLLOW SHAFT (e.g. MDSS)
			INPUT HP	OUTPUT TORQUE (lbf-in.)	EFF	INPUT HP	OUTPUT TORQUE (lbf-in.)	INPUT HP	OUTPUT TORQUE (lbf-in.)					
<b>4</b>														
	2500	500	18.09	2197	96	14.47	1758	12.06	1465	SEE MODIFIED PRODUCT SECTION				
	1750	350	15.82	2738	96	12.66	2190	10.55	1825					
<b>5</b>	1160	232	12.97	3395	96	10.38	2716	8.65	2263	750	1720	1447	1744	2246
	870	174	11.03	3850	96	8.82	3080	7.35	2567					
	600	120	8.71	4398	96	6.97	3518	5.81	2932					
	300	60	5.22	5223	95	4.18	4178	3.48	3482					
	100	20	2.09	5971	90	1.67	4777	1.39	3981					
	2500	333	14.66	2652	96	11.73	2122	9.77	1768					
<b>7.5</b>	1750	233	12.55	3252	96	10.04	2602	8.37	2168	750	1882	1582	1997	2612
	1160	155	10.41	4084	96	8.33	3267	6.94	2723					
	870	116	9.04	4731	96	7.23	3785	6.03	3154					
	600	80	7.17	5425	96	5.74	4340	4.78	3617					
	300	40	3.96	5910	95	3.17	4728	2.64	3940					
	100	13	1.39	5892	90	1.11	4714	0.93	3928					
<b>10</b>	2500	250	12.00	2867	95	9.60	2294	8.00	1911	750	2064	1734	2200	2903
	1750	175	10.27	3515	95	8.22	2812	6.85	2343					
	1160	116	8.51	4413	95	6.81	3530	5.67	2942					
	870	87	7.32	5057	95	5.86	4046	4.88	3371					
	600	60	5.43	5413	95	4.34	4330	3.62	3609					
	300	30	2.75	5383	93	2.20	4306	1.83	3589					
<b>15</b>	2500	167	8.84	3103	93	7.07	2482	5.89	2069	750	2130	1998	2624	3339
	1750	117	7.51	3804	94	6.01	3043	5.01	2536					
	1160	77	6.21	4771	94	4.97	3817	4.14	3181					
	870	58	5.31	5442	94	4.25	4354	3.54	3628					
	600	40	4.15	6152	94	3.32	4922	2.77	4101					
	300	20	2.42	7049	92	1.94	5639	1.61	4699					
<b>20</b>	2500	125	6.91	3189	91	5.53	2551	4.61	2126	750	2130	2204	2973	3660
	1750	88	5.73	3821	93	4.58	3057	3.82	2547					
	1160	58	4.79	4868	93	3.83	3894	3.19	3245					
	870	44	4.04	5484	94	3.23	4387	2.69	3656					
	600	30	3.12	6126	93	2.50	4901	2.08	4084					
	300	15	1.68	6434	91	1.34	5147	1.12	4289					
<b>25</b>	2500	100	5.66	3215	90	4.53	2572	3.77	2143	750	2130	2371	3261	4000
	1750	70	4.71	3884	92	3.77	3107	3.14	2589					
	1160	46	3.87	4871	93	3.10	3897	2.58	3247					
	870	35	3.04	5089	93	2.43	4071	2.03	3393					
	600	24	2.12	5115	92	1.70	4092	1.41	3410					
	300	12	1.09	5118	89	0.87	4094	0.73	3412					
	100	4	0.41	5227	81	0.33	4182	0.27	3485					

Ratings

1. Exact ratio.  
 2. If input speed is below 1160 RPM, please specify speed and mounting position to ensure proper lubrication.  
 3. Overhung load given at a distance equal to one shaft diameter from the face of the output seal.  
 4. Overhung load is based on maximum bore size. Use of smaller driven shaft diameter may limit OHL capacity.

5. Overhung loads are based on the output shaft and output bearing capacities only. Check Overhung Load Section for other considerations.  
 6. Overhung load and thrust load ratings are computed independent of each other. For combined load applications, contact WINSMITH.

  Mechanical ratings shaded above exceed speed reducer thermal limitations under continuous duty conditions. Refer to Appendix (page 229) for Continuous Duty Thermal Limit Ratings.





# SINGLE REDUCTION

With Mobil Glygoyle 460 Lubricant

REDUCER SIZE

# E35

3.500 CENTER DISTANCE			HORSEPOWER AND TORQUE RATINGS							OVERHUNG LOAD CAPACITIES (lb)			THRUST LOAD CAPACITIES (lb)	
RATIO <sup>1</sup>	INPUT RPM <sup>2</sup>	OUTPUT RPM	MECHANICAL							INPUT SHAFT	OUTPUT SHAFT <sup>5,6</sup>		OUTPUT SHAFT <sup>6</sup>	
			1.00 SERVICE FACTOR			1.25 SERVICE FACTOR		1.50 SERVICE FACTOR		ALL SHAFT INPUT MODELS	SOLID <sup>3</sup> SHAFT (e.g. MDNS)	HOLLOW <sup>4</sup> SHAFT (e.g. MDSS)	SOLID SHAFT (e.g. MDNS)	HOLLOW SHAFT (e.g. MDSS)
			INPUT HP	OUTPUT TORQUE (lbf-in.)	EFF	INPUT HP	OUTPUT TORQUE (lbf-in.)	INPUT HP	OUTPUT TORQUE (lbf-in.)					
30	2500	83	4.84	3216	88	3.87	2573	3.23	2144	750	2130	2528	3520	4000
	1750	58	4.07	3943	90	3.26	3154	2.71	2629					
	1160	39	3.33	4939	91	2.66	3951	2.22	3293					
	870	29	2.84	5618	91	2.27	4494	1.89	3745					
	600	20	2.27	6333	88	1.82	5066	1.51	4222					
	300	10	1.34	7236	85	1.07	5789	0.89	4824					
	100	3	0.49	7343	80	0.39	5874	0.33	4895					
40	2500	63	3.71	3196	85	2.97	2557	2.47	2131	750	2130	2784	3520	4000
	1750	44	3.04	3837	88	2.43	3070	2.03	2558					
	1160	29	2.51	4871	89	2.01	3897	1.67	3247					
	870	22	2.14	5476	88	1.71	4381	1.43	3651					
	600	15	1.70	6108	86	1.36	4886	1.13	4072					
	300	8	0.99	6895	83	0.79	5516	0.66	4597					
	100	3	0.36	7019	78	0.29	5615	0.24	4679					
50	2500	50	2.98	3103	83	2.38	2482	1.99	2069	750	2130	3025	3520	4000
	1750	35	2.44	3753	85	1.95	3002	1.63	2502					
	1160	23	1.97	4695	88	1.58	3756	1.31	3130					
	870	17	1.66	5162	86	1.33	4130	1.11	3441					
	600	12	1.19	5184	83	0.95	4147	0.79	3456					
	300	6	0.62	5183	80	0.50	4146	0.41	3455					
	100	2	0.22	5159	75	0.18	4127	0.15	3439					
60	2500	42	2.44	2944	80	1.95	2355	1.63	1963	750	2130	3186	3520	4000
	1750	29	2.00	3573	83	1.60	2858	1.33	2382					
	1160	19	1.41	3863	84	1.13	3090	0.94	2575					
	870	15	1.07	3883	84	0.86	3106	0.71	2589					
	600	10	0.76	3888	81	0.61	3110	0.51	2592					
	300	5	0.44	4320	78	0.35	3456	0.29	2880					
	100	2	0.17	4645	73	0.14	3716	0.11	3097					
80	2500	31	1.59	2388	75	1.27	1910	1.06	1592	750	2130	3357	3520	4000
	1750	22	1.12	2403	74	0.90	1922	0.75	1602					
	1160	15	0.79	2589	75	0.63	2071	0.53	1726					
	870	11	0.64	2860	77	0.51	2288	0.43	1907					
	600	8	0.49	3136	77	0.39	2509	0.33	2091					
	300	4	0.28	3475	74	0.22	2780	0.19	2317					
	100	1	0.11	3721	67	0.09	2977	0.07	2481					
100	2500	25	0.92	1590	69	0.74	1272	0.61	1060	750	2130	3357	3520	4000
	1750	18	0.67	1666	69	0.54	1333	0.45	1111					
	1160	12	0.54	2023	69	0.43	1618	0.36	1349					
	870	9	0.44	2226	69	0.35	1781	0.29	1484					
	600	6	0.32	2433	71	0.26	1946	0.21	1622					
	300	3	0.18	2686	70	0.14	2149	0.12	1791					
	100	1	0.07	2869	61	0.06	2295	0.05	1913					

1. Exact ratio.  
 2. If input speed is below 1160 RPM, please specify speed and mounting position to ensure proper lubrication.  
 3. Overhung load given at a distance equal to one shaft diameter from the face of the output seal.  
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5. Overhung loads are based on the output shaft and output bearing capacities only. Check Overhung Load Section for other considerations.  
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Mechanical ratings shaded above exceed speed reducer thermal limitations under continuous duty conditions. Refer to Appendix (page 229) for Continuous Duty Thermal Limit Ratings.

Ratings



2D DRAWINGS & 3D MODELS  
[www.WINSMITH.com](http://www.WINSMITH.com)

