

# SINGLE REDUCTION

With Mobil Glygoyle 460 Lubricant



4.250 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. b 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>	SEE MODIFIED PRODUCT SECTION													
<b>5</b>	2500	500	29.24	3574	97	23.39	2859	19.49	2383	1000	2175	2320	2337	3955
	1750	350	25.16	4382	97	20.13	3506	16.77	2921					
	1160	232	21.19	5541	96	16.95	4433	14.13	3694					
	870	174	18.67	6483	96	14.94	5186	12.45	4322					
	600	120	15.62	7811	95	12.50	6249	10.41	5207					
	300	60	9.74	9608	94	7.79	7686	6.49	6405					
	100	20	3.81	11031	92	3.05	8825	2.54	7354					
<b>7.5</b>	2500	333	22.38	4065	96	17.90	3252	14.92	2710	1000	2518	2660	2697	4500
	1750	233	19.39	5011	96	15.51	4009	12.93	3341					
	1160	155	15.87	6149	95	12.70	4919	10.58	4099					
	870	116	14.44	7420	95	11.55	5936	9.63	4947					
	600	80	11.96	8837	94	9.57	7070	7.97	5891					
	300	40	7.39	10731	92	5.91	8585	4.93	7154					
	100	13	2.88	12215	90	2.30	9772	1.92	8143					
<b>10</b>	2500	250	17.88	4287	95	14.30	3430	11.92	2858	1000	2786	2930	2972	4500
	1750	175	15.84	5400	95	12.67	4320	10.56	3600					
	1160	116	13.06	6666	94	10.45	5333	8.71	4444					
	870	87	11.82	7990	93	9.46	6392	7.88	5327					
	600	60	9.75	9459	92	7.80	7567	6.50	6306					
	300	30	6.01	11409	90	4.81	9127	4.01	7606					
	100	10	2.34	12928	88	1.87	10342	1.56	8619					
<b>15</b>	2500	167	13.03	4595	93	10.42	3676	8.69	3063	1000	2800	3340	3577	4500
	1750	117	11.63	5819	93	9.30	4655	7.75	3879					
	1160	77	9.66	7211	92	7.73	5769	6.44	4807					
	870	58	8.72	8602	91	6.98	6882	5.81	5735					
	600	40	7.18	10138	90	5.74	8110	4.79	6759					
	300	20	4.43	12168	87	3.54	9734	2.95	8112					
	100	7	1.74	13743	84	1.39	10994	1.16	9162					
<b>20</b>	2500	125	10.46	4840	92	8.37	3872	6.97	3227	1000	2800	3660	4046	4500
	1750	88	9.16	6007	91	7.33	4806	6.11	4005					
	1160	58	7.69	7511	90	6.15	6009	5.13	5007					
	870	44	6.85	8830	89	5.48	7064	4.57	5887					
	600	30	5.58	10265	88	4.46	8212	3.72	6843					
	300	15	3.40	12135	85	2.72	9708	2.27	8090					
	100	5	1.18	12107	81	0.94	9686	0.79	8071					
<b>25</b>	2500	100	8.65	4879	89	6.92	3903	5.77	3253	1000	2800	3950	4200	4500
	1750	70	7.50	5981	89	6.00	4785	5.00	3987					
	1160	46	6.24	7402	87	4.99	5922	4.16	4935					
	870	35	5.62	8845	87	4.50	7076	3.75	5897					
	600	24	4.64	10439	86	3.71	8351	3.09	6959					
	300	12	2.94	12550	81	2.35	10040	1.96	8367					
	100	4	1.17	14190	77	0.94	11352	0.78	9460					

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

# E43

4.250 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	7.37	4905	88	5.90	3924	4.91	3270	1000	2800	4260	4200	4500
	1750	58	6.40	6013	87	5.12	4810	4.27	4009					
	1160	39	5.32	7467	86	4.26	5974	3.55	4978					
	870	29	4.76	8882	86	3.81	7106	3.17	5921					
	600	20	3.92	10439	84	3.14	8351	2.61	6959					
	300	10	2.48	12491	80	1.98	9993	1.65	8327					
	100	3	1.00	14079	75	0.80	11263	0.67	9386					
40	2500	63	5.68	4898	85	4.54	3918	3.79	3265	1000	2800	4578	4200	4500
	1750	44	4.94	6005	84	3.95	4804	3.29	4003					
	1160	29	4.09	7515	84	3.27	6012	2.73	5010					
	870	22	3.62	8819	84	2.90	7055	2.41	5879					
	600	15	2.94	10234	83	2.35	8187	1.96	6823					
	300	8	1.84	12075	78	1.47	9660	1.23	8050					
	100	3	0.68	12274	72	0.54	9819	0.45	8183					
50	2500	50	4.56	4774	83	3.65	3819	3.04	3183	1000	2800	4915	4200	4500
	1750	35	3.96	5852	82	3.17	4682	2.64	3901					
	1160	23	3.27	7345	83	2.62	5876	2.18	4897					
	870	17	2.87	8547	82	2.30	6838	1.91	5698					
	600	12	2.13	9032	81	1.70	7226	1.42	6021					
	300	6	1.14	9053	75	0.91	7242	0.76	6035					
	100	2	0.42	9030	69	0.34	7224	0.28	6020					
60	2500	42	3.72	4541	81	2.98	3633	2.48	3027	1000	2800	5210	4200	4500
	1750	29	3.23	5566	80	2.58	4453	2.15	3711					
	1160	19	2.58	6742	80	2.06	5394	1.72	4495					
	870	15	1.97	6781	79	1.58	5425	1.31	4521					
	600	10	1.39	6779	77	1.11	5423	0.93	4519					
	300	5	0.84	7699	73	0.67	6159	0.56	5133					
	100	2	0.32	7993	67	0.26	6394	0.21	5329					
80	2500	31	2.46	3769	76	1.97	3015	1.64	2513	1000	2800	5231	4200	4500
	1750	22	1.91	4144	75	1.53	3315	1.27	2763					
	1160	15	1.31	4189	74	1.05	3351	0.87	2793					
	870	11	1.14	4762	72	0.91	3810	0.76	3175					
	600	8	0.90	5419	72	0.72	4335	0.60	3613					
	300	4	0.56	6256	67	0.45	5005	0.37	4171					
	100	1	0.21	6560	63	0.17	5248	0.14	4373					
100	2500	25	1.19	2123	71	0.95	1698	0.79	1415	1000	2800	5231	4200	4500
	1750	18	1.02	2602	71	0.82	2082	0.68	1735					
	1160	12	0.87	3266	69	0.70	2613	0.58	2177					
	870	9	0.76	3736	68	0.61	2989	0.51	2491					
	600	6	0.61	4235	66	0.49	3388	0.41	2823					
	300	3	0.37	4867	63	0.30	3894	0.25	3245					
	100	1	0.14	5340	60	0.11	4272	0.09	3560					

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.

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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.



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

