

WINSMITH



SE ENCORE™
Unique, Powerful Performance

WORM GEAR SPEED REDUCERS

Ratings Summary

INPUT MOTOR HORSEPOWER AND TORQUE RATINGS (lbf-in.) AT 1750 RPM INPUT

1.00 SERVICE FACTOR*

REDUCER SIZE	RATIO ¹		4	5	7.5	10	15	20	25	30	40	50	60	80	100
	OUTPUT RPM		438	350	233	175	117	88	70	58	44	35	29	21	18
	RATINGS AT 1750 RPM INPUT ²														
E13	Page #	HP	1.10	1.39	1.05	0.86	0.62	0.42	0.41	0.35	0.27	0.17	0.15	n/a	n/a
	160-161	Torque	149	238	266	284	295	257	304	293	276	213	202	n/a	n/a
E17	Page #	HP	1.98	2.69	2.06	1.64	1.15	0.94	0.70	0.66	0.52	0.41	0.27	0.16	0.11
	162-163	Torque	269	462	525	554	568	604	547	596	603	558	417	311	236
E20	Page #	HP	3.00	3.70	2.84	2.24	1.59	1.24	1.01	0.86	0.68	0.56	0.41	0.22	0.16
	164-165	Torque	411	639	732	769	794	806	803	788	795	791	656	437	355
E24	Page #	HP	4.74	5.89	4.54	3.67	2.71	2.11	1.61	1.45	1.11	0.92	0.70	0.38	0.27
	166-167	Torque	653	1017	1168	1249	1359	1383	1285	1360	1335	1329	1134	735	576
E26	Page #	HP	6.19	7.70	5.93	4.82	3.42	2.64	2.17	1.80	1.42	1.18	0.92	0.49	0.34
	168-169	Torque	852	1334	1533	1650	1724	1745	1758	1712	1737	1748	1556	979	767
E30	Page #	HP	9.30	10.87	8.59	7.11	5.07	3.95	3.24	2.67	2.08	1.72	1.34	0.71	0.48
	170-171	Torque	1289	1886	2232	2448	2578	2645	2676	2586	2617	2643	2367	1478	1160
E35	Page #	HP	13.20	15.82	12.55	10.27	7.51	5.73	4.71	4.07	3.04	2.44	2.00	1.12	0.67
	172-173	Torque	1838	2738	3252	3515	3804	3821	3884	3943	3837	3753	3573	2403	1666
E43	Page #	HP	20.50	25.16	19.39	15.84	11.63	9.16	7.50	6.40	4.94	3.96	3.23	1.91	1.02
	174-175	Torque	2861	4382	5011	5400	5819	6007	5981	6013	6005	5852	5566	4144	2602

INPUT MOTOR HORSEPOWER AND TORQUE RATINGS (lbf-in.) AT 1160 RPM INPUT

1.00 SERVICE FACTOR*

REDUCER SIZE	RATIO ¹		4	5	7.5	10	15	20	25	30	40	50	60	80	100
	OUTPUT RPM		438	232	155	116	77	58	46	39	29	23	19	14	12
	RATINGS AT 1160 RPM INPUT ²														
E13	Page #	HP	0.92	1.06	0.78	0.65	0.48	0.30	0.31	0.27	0.18	0.13	0.11	n/a	n/a
	160-161	Torque	179	276	301	320	342	271	345	341	291	237	224	n/a	n/a
E17	Page #	HP	1.72	2.16	1.58	1.24	0.78	0.67	0.47	0.48	0.39	0.28	0.19	0.12	0.08
	162-163	Torque	337	562	610	632	571	645	554	660	676	564	435	346	257
E20	Page #	HP	2.59	2.85	2.18	1.68	1.06	0.91	0.73	0.66	0.51	0.41	0.27	0.16	0.12
	164-165	Torque	515	743	849	863	788	891	865	920	920	882	660	486	394
E24	Page #	HP	4.17	4.81	3.64	2.55	1.81	1.60	1.05	0.94	0.73	0.63	0.46	0.29	0.20
	166-167	Torque	840	1263	1431	1321	1376	1611	1280	1350	1333	1421	1138	837	654
E26	Page #	HP	5.29	5.96	4.67	3.41	2.41	1.76	1.43	1.28	1.06	0.84	0.60	0.37	0.25
	168-169	Torque	1061	1567	1836	1770	1847	1764	1762	1864	2028	1932	1562	1126	880
E30	Page #	HP	7.83	8.75	7.11	5.31	3.35	2.70	2.19	1.95	1.59	1.29	0.88	0.54	0.37
	170-171	Torque	1585	2303	2802	2768	2580	2745	2749	2891	3101	3057	2381	1735	1356
E35	Page #	HP	11.4	12.97	10.41	8.51	6.21	4.79	3.87	3.33	2.51	1.97	1.41	0.79	0.54
	172-173	Torque	2324	3395	4084	4413	4771	4868	4871	4939	4871	4695	3863	2589	2023
E43	Page #	HP	17.6	21.19	15.87	13.06	9.66	7.69	6.24	5.32	4.09	3.27	2.58	1.31	0.87
	174-175	Torque	3618	5541	6149	6666	7211	7511	7402	7467	7515	7345	6742	4189	3266

* For thermal limit ratings of 1.25 service factors and 1.50 service factors, please contact Winsmith.

1. Exact ratio

2. If input speed is below 1160 RPM, please specify speed and mounting position to ensure proper lubrication.

□ 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
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Selection By Input Horsepower

REDUCER SIZE AND TORQUE (lbf·in.) AT 1750 RPM INPUT²

1.00 SERVICE FACTOR

OUTPUT RPM	RATIO ¹	HP	INPUT HORSEPOWER										
			0.25	0.33	0.50	0.75	1.00	1.50	2.00	3.00	5.00	7.50	10.00
438	4	SIZE			E13	E13	E13	E17	E17	E20	E26	E30	E35
		TORQUE			65	98	131	198	264	400	672	1017	1362
350	5	SIZE			E13	E13	E13	E17	E17	E20	E24	E26	E30
		TORQUE			86	128	171	258	343	518	863	1299	1735
233	7.5	SIZE		E13	E13	E13	E17	E17	E17	E24	E26	E30	E35
		TORQUE		84	127	190	253	382	510	772	1293	1949	2591
175	10	SIZE		E13	E13	E13	E17	E17	E20	E24	E30	E35	E35
		TORQUE		109	165	248	338	507	687	1021	1722	2567	3423
117	15	SIZE		E13	E13	E17	E17	E20	E24	E26	E30	E35	E43
		TORQUE		157	238	370	494	749	1003	1512	2542	3799	5003
88	20	SIZE	E13	E13	E17	E17	E20	E24	E24	E30	E35	E43	
		TORQUE	153	202	321	483	650	983	1311	2009	3334	4918	
70	25	SIZE	E13	E13	E17	E20	E20	E24	E26	E30	E43	E43	
		TORQUE	185	245	391	596	795	1197	1620	2478	3987	5981	
58	30	SIZE	E13	E13	E17	E20	E24	E26	E30	E35	E43		
		TORQUE	209	276	452	687	938	1427	1937	2906	4698		
44	40	SIZE	E13	E17	E17	E24	E24	E30	E30	E35			
		TORQUE	256	383	580	902	1203	1887	2516	3787			
35	50	SIZE	E17	E17	E20	E24	E26	E30	E35	E43			
		TORQUE	340	449	706	1083	1481	2305	3076	4433			
29	60	SIZE	E17	E20	E24	E26	E30	E35	E35	E43			
		TORQUE	386	525	810	1268	1766	2680	3573	5170			
22	80	SIZE	E24	E24	E26	E35	E35	E43					
		TORQUE	484	638	979	1609	2146	3255					
17.5	100	SIZE	E24	E26	E35	E43	E43						
		TORQUE	533	744	1243	1913	2551						

REDUCER SIZE AND TORQUE (lbf·in.) AT 1750 RPM INPUT²

1.25 SERVICE FACTOR

OUTPUT RPM	RATIO ¹	HP	INPUT HORSEPOWER										
			0.25	0.33	0.50	0.75	1.00	1.50	2.00	3.00	5.00	7.50	10.00
438	4	SIZE			E13	E13	E17	E17	E20	E24	E26	E30	E35
		TORQUE			65	98	132	198	267	404	672	1017	1362
350	5	SIZE			E13	E13	E13	E17	E17	E20	E26	E30	E35
		TORQUE			86	128	171	258	343	518	866	1301	1730
233	7.5	SIZE		E13	E13	E13	E17	E17	E20	E24	E30	E35	E35
		TORQUE		84	127	190	255	382	515	772	1299	1943	2591
175	10	SIZE		E13	E13	E17	E17	E20	E24	E26	E30	E35	E43
		TORQUE		109	165	253	338	515	680	1026	1722	2567	3410
117	15	SIZE		E13	E13	E17	E20	E24	E24	E30	E35	E43	
		TORQUE		157	238	370	500	751	1003	1524	2532	3753	
88	20	SIZE	E13	E13	E17	E17	E20	E24	E26	E30	E43		
		TORQUE	153	202	321	483	650	983	1322	2009	3279		
70	25	SIZE	E13	E13	E17	E20	E24	E26	E30	E35	E43		
		TORQUE	185	244	391	596	798	1215	1653	2472	3987		
58	30	SIZE	E13	E17	E17	E24	E24	E30	E30	E35	E43		
		TORQUE	209	298	452	703	938	1450	1937	2906	4698		
44	40	SIZE	E17	E17	E20	E24	E26	E30	E35	E43			
		TORQUE	290	383	585	902	1223	1887	2524	3647			
35	50	SIZE	E17	E17	E24	E24	E30	E35	E35	E43			
		TORQUE	340	449	722	1083	1537	2307	3076	4433			
29	60	SIZE	E20	E20	E24	E26	E30	E35	E43				
		TORQUE	400	525	810	1268	1766	2680	3446				
22	80	SIZE	E24	E26	E30	E35	E43	E43					
		TORQUE	484	659	1041	1609	2170	3255					
17.5	100	SIZE	E26	E30	E35	E43							
		TORQUE	564	798	1243	1913							

1. Exact ratio

2. If input speed is below 1160 RPM, please specify speed and mounting position to ensure proper lubrication.

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



Selection By Input Horsepower

REDUCER SIZE AND TORQUE (lbf-in.) AT 1750 RPM INPUT²

1.50 SERVICE FACTOR

OUTPUT RPM	RATIO ¹	HP	INPUT HORSEPOWER										
			0.25	0.33	0.50	0.75	1.00	1.50	2.00	3.00	5.00	7.50	10.00
438	4	SIZE			E13	E13	E17	E20	E20	E24	E30	E35	E43
		TORQUE			65	98	132	200	267	404	678	1021	1375
350	5	SIZE			E13	E13	E17	E17	E20	E24	E26	E35	E35
		TORQUE			86	128	171	258	345	518	866	1298	1730
233	7.5	SIZE		E13	E13	E17	E17	E20	E24	E24	E30	E35	E43
		TORQUE		84	127	191	255	387	515	772	1299	1943	2584
175	10	SIZE		E13	E13	E17	E17	E20	E24	E26	E35	E43	E43
		TORQUE		109	165	253	338	515	680	1026	1711	2557	3410
117	15	SIZE		E13	E17	E17	E20	E24	E26	E30	E35	E43	
		TORQUE		157	247	370	500	751	1008	1524	2532	3753	
88	20	SIZE	E13	E17	E17	E20	E24	E26	E30	E35	E43		
		TORQUE	153	212	321	488	655	991	1339	2001	3279		
70	25	SIZE	E13	E17	E20	E24	E24	E26	E30	E35	E43		
		TORQUE	185	258	398	599	798	1215	1653	2472	3987		
58	30	SIZE	E17	E17	E20	E24	E24	E30	E35	E43			
		TORQUE	226	298	458	703	938	1450	1938	2819			
44	40	SIZE	E17	E17	E24	E24	E26	E35	E35	E43			
		TORQUE	290	383	601	902	1223	1893	2524	3647			
35	50	SIZE	E17	E20	E24	E26	E30	E35	E43				
		TORQUE	340	466	722	1111	1537	2307	2956				
29	60	SIZE	E20	E24	E26	E30	E35	E43	E43				
		TORQUE	400	535	846	1325	1787	2585	3446				
22	80	SIZE	E24	E26	E35	E35	E43						
		TORQUE	484	659	1073	1609	2170						
17.5	100	SIZE	E30	E35	E43								
		TORQUE	604	821	1275								

1. Exact ratio

2. If input speed is below 1160 RPM, please specify speed and mounting position to ensure proper lubrication.

MODEL	QUILL INPUT ADAPTOR SIZES	COUPLED INPUT ADAPTOR SIZES
E13	42C, 48C, 56C, 140TC	42C, 48C, 56C, 140TC
E17	42C, 48C, 56C, 140TC	42C, 48C, 56C, 140TC, 180TC
E20	42C, 48C, 56C, 140TC	42C, 48C, 56C, 140TC, 180TC
E24	56C, 140TC, 180TC	56C, 140TC, 180TC
E26	56C, 140TC, 180TC	56C, 140TC, 180TC
E30	56C, 140TC, 180TC	56C, 140TC, 180TC, 210TC
E35	56C, 140TC, 180TC	56C, 140TC, 180TC, 210TC
E43	56C, 140TC, 180TC, 210TC	56C, 140TC, 180TC, 210TC

Ratings



2D DRAWINGS & 3D MODELS
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SINGLE REDUCTION
With Mobil Glycoyle 460 Lubricant



1.333 CENTER DISTANCE			HORSEPOWER AND TORQUE RATINGS							OVERHUNG LOAD CAPACITIES (lb)			THRUST LOAD CAPACITIES (lb)	
RATIO ¹	INPUT RPM ²	OUTPUT RPM	MECHANICAL							INPUT SHAFT ALL SHAFT INPUT MODELS	OUTPUT SHAFT ^{4,5}		OUTPUT SHAFT ⁵	
			1.00 SERVICE FACTOR			1.25 SERVICE FACTOR		1.50 SERVICE FACTOR			SOLID ³ SHAFT (e.g. MDNS)	HOLLOW SHAFT (e.g. MDSS)	SOLID SHAFT (e.g. MDNS)	HOLLOW SHAFT (e.g. MDSS)
			INPUT HP	OUTPUT TORQUE (lb•in.)	EFF	INPUT HP	OUTPUT TORQUE (lb•in.)	INPUT HP	OUTPUT TORQUE (lb•in.)					
4	SEE MODIFIED PRODUCT SECTION													
5	2500	500	1.68	197	93	1.34	158	1.12	131	136	290	580		
	1750	350	1.39	238	95	1.11	190	0.93	159					
	1160	232	1.06	276	96	0.85	221	0.71	184					
	870	174	0.87	297	95	0.70	238	0.58	198					
	600	120	0.64	319	95	0.51	255	0.43	213					
	300	60	0.34	344	96	0.27	275	0.23	229					
	100	20	0.11	320	94	0.09	256	0.07	213					
7.5	2500	333	1.32	227	91	1.06	182	0.88	151	132	290	624		
	1750	233	1.05	266	93	0.84	213	0.70	177					
	1160	155	0.78	301	94	0.62	241	0.52	201					
	870	116	0.63	319	93	0.50	255	0.42	213					
	600	80	0.46	338	94	0.37	270	0.31	225					
	300	40	0.24	360	95	0.19	288	0.16	240					
	100	13	0.08	345	93	0.06	276	0.05	230					
10	2500	250	1.08	244	89	0.86	195	0.72	163	125	290	624		
	1750	175	0.86	284	91	0.69	227	0.57	189					
	1160	116	0.65	320	91	0.52	256	0.43	213					
	870	87	0.51	339	92	0.41	271	0.34	226					
	600	60	0.37	358	93	0.30	286	0.25	239					
	300	30	0.20	381	92	0.16	305	0.13	254					
	100	10	0.07	379	90	0.06	303	0.05	253					
15	2500	167	0.80	258	86	0.64	206	0.53	172	100	290	624		
	1750	117	0.62	295	88	0.50	236	0.41	197					
	1160	77	0.48	342	87	0.38	274	0.32	228					
	870	58	0.38	362	89	0.30	290	0.25	241					
	600	40	0.27	381	90	0.22	305	0.18	254					
	300	20	0.14	390	88	0.11	312	0.09	260					
	100	7	0.05	389	86	0.04	311	0.03	259					
20	2500	125	0.58	242	83	0.46	194	0.39	161	100	290	624		
	1750	88	0.42	257	85	0.34	206	0.28	171					
	1160	58	0.30	271	84	0.24	217	0.20	181					
	870	44	0.23	277	84	0.18	222	0.15	185					
	600	30	0.16	281	84	0.13	225	0.11	187					
	300	15	0.08	290	85	0.06	232	0.05	193					
	100	5	0.03	301	83	0.02	241	0.02	201					
25	2500	100	0.53	267	80	0.42	214	0.35	178	100	290	624		
	1750	70	0.41	304	82	0.33	243	0.27	203					
	1160	46	0.31	345	82	0.25	276	0.21	230					
	870	35	0.24	364	82	0.19	291	0.16	243					
	600	24	0.17	382	84	0.14	306	0.11	255					
	300	12	0.09	384	82	0.07	307	0.06	256					
	100	4	0.03	384	80	0.02	307	0.02	256					

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.

Ratings





SINGLE REDUCTION

With Mobil Glygoyle 460 Lubricant

REDUCER SIZE

E13

1.333 CENTER DISTANCE			HORSEPOWER AND TORQUE RATINGS							OVERHUNG LOAD CAPACITIES (lb)			THRUST LOAD CAPACITIES (lb)	
RATIO ¹	INPUT RPM ²	OUTPUT RPM	MECHANICAL							INPUT SHAFT	OUTPUT SHAFT ^{4,5}		OUTPUT SHAFT ⁵	
			1.00 SERVICE FACTOR			1.25 SERVICE FACTOR		1.50 SERVICE FACTOR		ALL SHAFT INPUT MODELS	SOLID ³ SHAFT (e.g. MDNS)	HOLLOW SHAFT (e.g. MDSS)	SOLID SHAFT (e.g. MDNS)	HOLLOW SHAFT (e.g. MDSS)
			INPUT HP	OUTPUT TORQUE (lb•in.)	EFF	INPUT HP	OUTPUT TORQUE (lb•in.)	INPUT HP	OUTPUT TORQUE (lb•in.)					
30	2500	83	0.44	255	76	0.35	204	0.29	170	100	290	624		
	1750	58	0.35	293	78	0.28	234	0.23	195					
	1160	39	0.27	341	78	0.22	273	0.18	227					
	870	29	0.21	372	80	0.17	298	0.14	248					
	600	20	0.16	392	80	0.13	314	0.11	261					
	300	10	0.08	391	78	0.06	313	0.05	261					
	100	3	0.03	393	76	0.02	314	0.02	262					
40	2500	63	0.36	258	71	0.29	206	0.24	172	100	290	624		
	1750	44	0.27	276	72	0.22	221	0.18	184					
	1160	29	0.18	291	73	0.14	233	0.12	194					
	870	22	0.14	297	73	0.11	238	0.09	198					
	600	15	0.10	300	73	0.08	240	0.07	200					
	300	8	0.05	294	75	0.04	235	0.03	196					
	100	3	0.02	302	72	0.02	242	0.01	201					
50	2500	50	0.22	186	67	0.18	149	0.15	124	100	290	624		
	1750	35	0.17	213	68	0.14	170	0.11	142					
	1160	23	0.13	237	69	0.10	190	0.09	158					
	870	17	0.10	250	69	0.08	200	0.07	167					
	600	12	0.07	262	69	0.06	210	0.05	175					
	300	6	0.04	273	70	0.03	218	0.03	182					
	100	2	0.01	273	69	0.01	218	0.01	182					
60	2500	42	0.19	177	63	0.15	142	0.13	118	115	290	624		
	1750	29	0.15	202	64	0.12	162	0.10	135					
	1160	19	0.11	224	64	0.09	179	0.07	149					
	870	15	0.08	236	64	0.06	189	0.05	157					
	600	10	0.06	239	64	0.05	191	0.04	159					
	300	5	0.03	239	64	0.02	191	0.02	159					
	100	2	0.01	239	65	0.01	191	0.01	159					

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.

Ratings



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SINGLE REDUCTION

With Mobil Glygoyle 460 Lubricant



1.750 CENTER DISTANCE			HORSEPOWER AND TORQUE RATINGS							OVERHUNG LOAD CAPACITIES (lb)			THRUST LOAD CAPACITIES (lb)	
RATIO ¹	INPUT RPM ²	OUTPUT RPM	MECHANICAL							INPUT SHAFT ALL SHAFT INPUT MODELS	OUTPUT SHAFT ^{5,6}		OUTPUT SHAFT ⁶	
			1.00 SERVICE FACTOR			1.25 SERVICE FACTOR		1.50 SERVICE FACTOR			SOLID ³ SHAFT (e.g. MDNS)	HOLLOW ⁴ SHAFT (e.g. MDSS)	SOLID SHAFT (e.g. MDNS)	HOLLOW SHAFT (e.g. MDSS)
			INPUT HP	OUTPUT TORQUE (lb-ft-in.)	EFF	INPUT HP	OUTPUT TORQUE (lb-ft-in.)	INPUT HP	OUTPUT TORQUE (lb-ft-in.)					
4	SEE MODIFIED PRODUCT SECTION													
5	2500	500	3.18	379	95	2.54	303	2.12	253	183	572	578	711	823
	1750	350	2.69	462	95	2.15	370	1.79	308					
	1160	232	2.16	562	96	1.73	450	1.44	375					
	870	174	1.78	619	96	1.42	495	1.19	413					
	600	120	1.34	678	97	1.07	542	0.89	452					
	300	60	0.74	749	97	0.59	599	0.49	499					
	100	20	0.27	801	94	0.22	641	0.18	534					
7.5	2500	333	2.46	435	93	1.97	348	1.64	290	205	617	626	823	952
	1750	233	2.06	525	94	1.65	420	1.37	350					
	1160	155	1.58	610	95	1.26	488	1.05	407					
	870	116	1.27	656	95	1.02	525	0.85	437					
	600	80	0.89	668	96	0.71	534	0.59	445					
	300	40	0.44	666	96	0.35	533	0.29	444					
	100	13	0.15	667	92	0.12	534	0.10	445					
10	2500	250	2.02	470	92	1.62	376	1.35	313	159	650	683	894	1052
	1750	175	1.64	554	94	1.31	443	1.09	369					
	1160	116	1.24	632	93	0.99	506	0.83	421					
	870	87	0.93	635	94	0.74	508	0.62	423					
	600	60	0.64	638	94	0.51	510	0.43	425					
	300	30	0.32	627	94	0.26	502	0.21	418					
	100	10	0.11	627	90	0.09	502	0.07	418					
15	2500	167	1.43	484	90	1.14	387	0.95	323	152	650	700	894	1310
	1750	117	1.15	568	91	0.92	454	0.77	379					
	1160	77	0.78	571	90	0.62	457	0.52	381					
	870	58	0.58	571	91	0.46	457	0.39	381					
	600	40	0.39	566	91	0.31	453	0.26	377					
	300	20	0.20	580	91	0.16	464	0.13	387					
	100	7	0.07	606	88	0.06	485	0.05	404					
20	2500	125	1.18	521	87	0.94	417	0.79	347	149	650	700	894	1440
	1750	88	0.94	604	89	0.75	483	0.63	403					
	1160	58	0.67	645	88	0.54	516	0.45	430					
	870	44	0.50	647	89	0.40	518	0.33	431					
	600	30	0.34	645	90	0.27	516	0.23	430					
	300	15	0.17	644	89	0.14	515	0.11	429					
	100	5	0.06	646	86	0.05	517	0.04	431					
25	2500	100	0.97	523	85	0.78	418	0.65	349	153	650	700	894	1440
	1750	70	0.70	547	87	0.56	438	0.47	365					
	1160	46	0.47	554	86	0.38	443	0.31	369					
	870	35	0.36	555	85	0.29	444	0.24	370					
	600	24	0.25	558	86	0.20	446	0.17	372					
	300	12	0.13	566	86	0.10	453	0.09	377					
	100	4	0.04	588	84	0.03	470	0.03	392					

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.

Ratings





SINGLE REDUCTION

With Mobil Glygoyle 460 Lubricant

REDUCER SIZE

E17

1.750 CENTER DISTANCE			HORSEPOWER AND TORQUE RATINGS							OVERHUNG LOAD CAPACITIES (lb)			THRUST LOAD CAPACITIES (lb)	
RATIO ¹	INPUT RPM ²	OUTPUT RPM	MECHANICAL							INPUT SHAFT	OUTPUT SHAFT ^{5,6}		OUTPUT SHAFT ⁶	
			1.00 SERVICE FACTOR			1.25 SERVICE FACTOR		1.50 SERVICE FACTOR		ALL SHAFT INPUT MODELS	SOLID ³ SHAFT (e.g. MDNS)	HOLLOW ⁴ 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	0.84	525	82	0.67	420	0.56	350	129	650	700	894	1440
	1750	58	0.66	596	84	0.53	477	0.44	397					
	1160	39	0.48	660	84	0.38	528	0.32	440					
	870	29	0.36	659	85	0.29	527	0.24	439					
	600	20	0.25	657	85	0.20	526	0.17	438					
	300	10	0.13	658	83	0.10	526	0.09	439					
	100	3	0.04	655	80	0.03	524	0.03	437					
40	2500	63	0.66	521	79	0.53	417	0.44	347	149	650	700	894	1440
	1750	44	0.52	603	80	0.42	482	0.35	402					
	1160	29	0.39	676	80	0.31	541	0.26	451					
	870	22	0.30	716	82	0.24	573	0.20	477					
	600	15	0.21	716	81	0.17	573	0.14	477					
	300	8	0.11	719	79	0.09	575	0.07	479					
	100	3	0.04	718	77	0.03	574	0.03	479					
50	2500	50	0.53	504	75	0.42	403	0.35	336	171	650	700	894	1440
	1750	35	0.41	558	76	0.33	446	0.27	372					
	1160	23	0.28	564	75	0.22	451	0.19	376					
	870	17	0.21	565	75	0.17	452	0.14	377					
	600	12	0.14	568	77	0.11	454	0.09	379					
	300	6	0.07	567	76	0.06	454	0.05	378					
	100	2	0.02	568	74	0.02	454	0.01	379					
60	2500	42	0.38	413	72	0.30	330	0.25	275	202	650	700	894	1440
	1750	29	0.27	417	72	0.22	334	0.18	278					
	1160	19	0.19	435	72	0.15	348	0.13	290					
	870	15	0.15	459	71	0.12	367	0.10	306					
	600	10	0.11	482	70	0.09	386	0.07	321					
	300	5	0.06	509	73	0.05	407	0.04	339					
	100	2	0.02	528	71	0.02	422	0.01	352					
83	2500	30	0.21	273	63	0.17	218	0.14	182	200	650		894	1440
	1750	21	0.16	311	64	0.13	249	0.11	207					
	1160	14	0.12	346	64	0.10	277	0.08	231					
	870	10	0.10	364	63	0.08	291	0.07	243					
	600	7	0.07	382	63	0.06	306	0.05	255					
	300	4	0.04	403	63	0.03	322	0.03	269					
	100	1	0.01	417	63	0.01	334	0.01	278					
100	2500	25	0.15	211	57	0.12	169	0.10	141	125	650		894	1440
	1750	18	0.11	236	59	0.09	189	0.07	157					
	1160	12	0.08	257	59	0.06	206	0.05	171					
	870	9	0.06	268	59	0.05	214	0.04	179					
	600	6	0.04	279	59	0.03	223	0.03	186					
	300	3	0.02	292	59	0.02	234	0.01	195					
	100	1	0.01	300	58	0.01	240	0.01	200					

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.

Ratings



2D DRAWINGS & 3D MODELS
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SINGLE REDUCTION

With Mobil Glygoyle 460 Lubricant



2,000 CENTER DISTANCE			HORSEPOWER AND TORQUE RATINGS							OVERHUNG LOAD CAPACITIES (lb)			THRUST LOAD CAPACITIES (lb)	
RATIO ¹	INPUT RPM ²	OUTPUT RPM	MECHANICAL							INPUT SHAFT	OUTPUT SHAFT ^{5,6}		OUTPUT SHAFT ⁶	
			1.00 SERVICE FACTOR			1.25 SERVICE FACTOR		1.50 SERVICE FACTOR			ALL SHAFT INPUT MODELS	SOLID ³ SHAFT (e.g. MDNS)	HOLLOW ⁴ SHAFT (e.g. MDSS)	SOLID SHAFT (e.g. MDNS)
	INPUT HP	OUTPUT TORQUE (lb•in.)	EFF	INPUT HP	OUTPUT TORQUE (lb•in.)	INPUT HP	OUTPUT TORQUE (lb•in.)							
4	SEE MODIFIED PRODUCT SECTION													
5 HOLLOW OUTPUT 5.33	2500	500	4.42	529	95	3.54	423	2.95	353	300	572	1265	615	1440
	1750	350	3.70	639	96	2.96	511	2.47	426					
	1160	232	2.85	743	96	2.28	594	1.90	495					
	870	174	2.38	830	96	1.90	664	1.59	553					
	600	120	1.88	956	97	1.50	765	1.25	637					
	300	60	1.09	1111	97	0.87	889	0.73	741					
	100	20	0.41	1200	93	0.33	960	0.27	800					
7.5	2500	333	3.37	598	94	2.70	478	2.25	399	300	617	1345	705	1440
	1750	233	2.84	732	95	2.27	586	1.89	488					
	1160	155	2.18	849	95	1.74	679	1.45	566					
	870	116	1.82	950	96	1.46	760	1.21	633					
	600	80	1.36	1035	96	1.09	828	0.91	690					
	300	40	0.72	1088	96	0.58	870	0.48	725					
	100	13	0.25	1085	92	0.20	868	0.17	723					
10	2500	250	2.79	653	93	2.23	522	1.86	435	219	650	1345	798	1440
	1750	175	2.24	769	95	1.79	615	1.49	513					
	1160	116	1.68	863	94	1.34	690	1.12	575					
	870	87	1.25	858	95	1.00	686	0.83	572					
	600	60	0.86	858	95	0.69	686	0.57	572					
	300	30	0.43	859	95	0.34	687	0.29	573					
	100	10	0.15	861	89	0.12	689	0.10	574					
15	2500	167	1.95	665	90	1.56	532	1.30	443	242	650	1345	894	1440
	1750	117	1.59	794	92	1.27	635	1.06	529					
	1160	77	1.06	788	91	0.85	630	0.71	525					
	870	58	0.79	792	92	0.63	634	0.53	528					
	600	40	0.55	796	92	0.44	637	0.37	531					
	300	20	0.29	855	92	0.23	684	0.19	570					
	100	7	0.11	896	87	0.09	717	0.07	597					
20	2500	125	1.57	698	88	1.26	558	1.05	465	236	650	1345	894	1440
	1750	88	1.24	806	90	0.99	645	0.83	537					
	1160	58	0.91	891	90	0.73	713	0.61	594					
	870	44	0.68	890	91	0.54	712	0.45	593					
	600	30	0.46	890	91	0.37	712	0.31	593					
	300	15	0.24	891	90	0.19	713	0.16	594					
	100	5	0.08	887	86	0.06	710	0.05	591					
25	2500	100	1.29	702	86	1.03	562	0.86	468	220	650	1345	894	1440
	1750	70	1.01	803	88	0.81	642	0.67	535					
	1160	46	0.73	865	88	0.58	692	0.49	577					
	870	35	0.54	871	89	0.43	697	0.36	581					
	600	24	0.37	875	89	0.30	700	0.25	583					
	300	12	0.19	876	88	0.15	701	0.13	584					
	100	4	0.07	866	84	0.06	693	0.05	577					

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.

Ratings





SINGLE REDUCTION

With Mobil Glygoyle 460 Lubricant

REDUCER SIZE

E20

2.000 CENTER DISTANCE			HORSEPOWER AND TORQUE RATINGS							OVERHUNG LOAD CAPACITIES (lb)			THRUST LOAD CAPACITIES (lb)	
RATIO ¹	INPUT RPM ²	OUTPUT RPM	MECHANICAL							INPUT SHAFT	OUTPUT SHAFT ^{5,6}		OUTPUT SHAFT ⁶	
			1.00 SERVICE FACTOR			1.25 SERVICE FACTOR		1.50 SERVICE FACTOR		ALL SHAFT INPUT MODELS	SOLID ³ SHAFT (e.g. MDNS)	HOLLOW ⁴ 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	1.09	686	83	0.87	549	0.73	457	237	650	1345	894	1440
	1750	58	0.86	788	85	0.69	630	0.57	525					
	1160	39	0.66	920	86	0.53	736	0.44	613					
	870	29	0.53	1016	88	0.42	813	0.35	677					
	600	20	0.40	1084	86	0.32	867	0.27	723					
	300	10	0.21	1083	84	0.17	866	0.14	722					
	100	3	0.07	1080	81	0.06	864	0.05	720					
40	2500	63	0.85	685	80	0.68	548	0.57	457	246	650	1345	894	1440
	1750	44	0.68	795	82	0.54	636	0.45	530					
	1160	29	0.51	920	82	0.41	736	0.34	613					
	870	22	0.41	995	84	0.33	796	0.27	663					
	600	15	0.29	993	83	0.23	794	0.19	662					
	300	8	0.15	993	80	0.12	794	0.10	662					
	100	3	0.05	993	78	0.04	794	0.03	662					
50	2500	50	0.72	693	76	0.58	554	0.48	462	224	650	1345	894	1440
	1750	35	0.56	791	79	0.45	633	0.37	527					
	1160	23	0.41	882	79	0.33	706	0.27	588					
	870	17	0.31	887	80	0.25	710	0.21	591					
	600	12	0.21	891	80	0.17	713	0.14	594					
	300	6	0.11	891	78	0.09	713	0.07	594					
	100	2	0.04	882	75	0.03	706	0.03	588					
60	2500	42	0.59	648	73	0.47	518	0.39	432	224	650	1345	894	1440
	1750	29	0.41	656	74	0.33	525	0.27	437					
	1160	19	0.27	660	74	0.22	528	0.18	440					
	870	15	0.21	664	74	0.17	531	0.14	443					
	600	10	0.15	701	74	0.12	561	0.10	467					
	300	5	0.08	745	75	0.06	596	0.05	497					
	100	2	0.03	775	73	0.02	620	0.02	517					
82	2500	30	0.29	397	66	0.23	318	0.19	265	220	650	1345	894	1440
	1750	21	0.22	437	67	0.18	350	0.15	291					
	1160	14	0.16	486	67	0.13	389	0.11	324					
	870	11	0.13	513	67	0.10	410	0.09	342					
	600	7	0.09	538	67	0.07	430	0.06	359					
	300	4	0.05	568	67	0.04	454	0.03	379					
	100	1	0.02	589	65	0.02	471	0.01	393					
99	2500	25	0.21	311	60	0.17	249	0.14	207	220	650	1345	894	1440
	1750	18	0.16	355	61	0.13	284	0.11	237					
	1160	12	0.12	394	62	0.10	315	0.08	263					
	870	9	0.09	415	62	0.07	332	0.06	277					
	600	6	0.07	435	62	0.06	348	0.05	290					
	300	3	0.04	459	62	0.03	367	0.03	306					
	100	1	0.01	475	60	0.01	380	0.01	317					

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.

Ratings



2D DRAWINGS & 3D MODELS
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SINGLE REDUCTION

With Mobil Glygoyle 460 Lubricant



2.375 CENTER DISTANCE			HORSEPOWER AND TORQUE RATINGS							OVERHUNG LOAD CAPACITIES (lb)			THRUST LOAD CAPACITIES (lb)	
RATIO ¹	INPUT RPM ²	OUTPUT RPM	MECHANICAL							INPUT SHAFT ALL SHAFT INPUT MODELS	OUTPUT SHAFT ^{5,6}		OUTPUT SHAFT ⁶	
			1.00 SERVICE FACTOR			1.25 SERVICE FACTOR		1.50 SERVICE FACTOR			SOLID ³ SHAFT (e.g. MDNS)	HOLLOW ⁴ SHAFT (e.g. MDSS)	SOLID SHAFT (e.g. MDNS)	HOLLOW SHAFT (e.g. MDSS)
INPUT HP	OUTPUT TORQUE (lb•in.)	EFF	INPUT HP	OUTPUT TORQUE (lb•in.)	INPUT HP	OUTPUT TORQUE (lb•in.)	INPUT HP	OUTPUT TORQUE (lb•in.)						
4	SEE MODIFIED PRODUCT SECTION													
5	2500	500	6.94	830	95	5.55	664	4.63	553	350	748	1100	844	1643
	1750	350	5.89	1017	96	4.71	814	3.93	678					
	1160	232	4.81	1263	97	3.85	1010	3.21	842					
	870	174	3.97	1394	97	3.18	1115	2.65	929					
	600	120	3.03	1544	97	2.42	1235	2.02	1029					
	300	60	1.73	1754	97	1.38	1403	1.15	1169					
	100	20	0.67	1928	91	0.54	1542	0.45	1285					
7.5	2500	333	5.40	960	94	4.32	768	3.60	640	320	799	1187	968	1909
	1750	233	4.54	1168	95	3.63	934	3.03	779					
	1160	155	3.64	1431	96	2.91	1145	2.43	954					
	870	116	3.01	1581	97	2.41	1265	2.01	1054					
	600	80	2.21	1685	97	1.77	1348	1.47	1123					
	300	40	1.12	1689	96	0.90	1351	0.75	1126					
	100	13	0.40	1692	89	0.32	1354	0.27	1128					
10	2500	250	4.29	1006	93	3.43	805	2.86	671	230	895	1280	1067	1909
	1750	175	3.67	1249	95	2.94	999	2.45	833					
	1160	116	2.55	1321	95	2.04	1057	1.70	881					
	870	87	1.91	1321	95	1.53	1057	1.27	881					
	600	60	1.31	1316	95	1.05	1053	0.87	877					
	300	30	0.68	1353	95	0.54	1082	0.45	902					
	100	10	0.26	1433	88	0.21	1146	0.17	955					
15	2500	167	3.21	1101	91	2.57	881	2.14	734	234	1025	1414	1238	1909
	1750	117	2.71	1359	93	2.17	1087	1.81	906					
	1160	77	1.81	1376	93	1.45	1101	1.21	917					
	870	58	1.36	1381	94	1.09	1105	0.91	921					
	600	40	0.94	1383	94	0.75	1106	0.63	922					
	300	20	0.50	1461	92	0.40	1169	0.33	974					
	100	7	0.19	1545	84	0.15	1236	0.13	1030					
20	2500	125	2.55	1138	88	2.04	910	1.70	759	235	1025	1414	1500	1909
	1750	88	2.11	1383	91	1.69	1106	1.41	922					
	1160	58	1.60	1611	93	1.28	1289	1.07	1074					
	870	44	1.20	1613	93	0.96	1290	0.80	1075					
	600	30	0.76	1464	92	0.61	1171	0.51	976					
	300	15	0.39	1467	90	0.31	1174	0.26	978					
	100	5	0.15	1515	82	0.12	1212	0.10	1010					
25	2500	100	1.98	1068	86	1.58	854	1.32	712	235	1025	1414	1500	1909
	1750	70	1.61	1285	88	1.29	1028	1.07	857					
	1160	46	1.05	1280	89	0.84	1024	0.70	853					
	870	35	0.78	1276	90	0.62	1021	0.52	851					
	600	24	0.56	1311	90	0.45	1049	0.37	874					
	300	12	0.31	1412	88	0.25	1130	0.21	941					
	100	4	0.12	1483	81	0.10	1186	0.08	989					

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.





SINGLE REDUCTION

With Mobil Glygoyle 460 Lubricant

REDUCER SIZE

E24

2.375 CENTER DISTANCE			HORSEPOWER AND TORQUE RATINGS							OVERHUNG LOAD CAPACITIES (lb)			THRUST LOAD CAPACITIES (lb)	
RATIO ¹	INPUT RPM ²	OUTPUT RPM	MECHANICAL							INPUT SHAFT	OUTPUT SHAFT ^{5,6}		OUTPUT SHAFT ⁶	
			1.00 SERVICE FACTOR			1.25 SERVICE FACTOR		1.50 SERVICE FACTOR		ALL SHAFT INPUT MODELS	SOLID ³ SHAFT (e.g. MDNS)	HOLLOW ⁴ 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	1.76	1107	83	1.41	886	1.17	738	235	1025	1414	1500	1909
	1750	58	1.45	1360	87	1.16	1088	0.97	907					
	1160	39	0.94	1350	88	0.75	1080	0.63	900					
	870	29	0.71	1359	88	0.57	1087	0.47	906					
	600	20	0.51	1380	86	0.41	1104	0.34	920					
	300	10	0.28	1498	84	0.22	1198	0.19	999					
	100	3	0.10	1583	80	0.08	1266	0.07	1055					
40	2500	63	1.38	1103	79	1.10	882	0.92	735	235	1025	1414	1500	1909
	1750	44	1.11	1335	83	0.89	1068	0.74	890					
	1160	29	0.73	1333	85	0.58	1066	0.49	889					
	870	22	0.54	1336	85	0.43	1069	0.36	891					
	600	15	0.38	1325	83	0.30	1060	0.25	883					
	300	8	0.21	1430	81	0.17	1144	0.14	953					
	100	3	0.08	1505	77	0.06	1204	0.05	1003					
50	2500	50	1.16	1112	76	0.93	890	0.77	741	235	1025	1414	1500	1909
	1750	35	0.92	1329	80	0.74	1063	0.61	886					
	1160	23	0.63	1421	83	0.50	1137	0.42	947					
	870	17	0.48	1417	82	0.38	1134	0.32	945					
	600	12	0.34	1411	80	0.27	1129	0.23	941					
	300	6	0.17	1422	78	0.14	1138	0.11	948					
	100	2	0.06	1421	74	0.05	1137	0.04	947					
60	2500	42	0.96	1055	72	0.77	844	0.64	703	235	1025	1414	1500	1909
	1750	29	0.70	1134	75	0.56	907	0.47	756					
	1160	19	0.46	1138	77	0.37	910	0.31	759					
	870	15	0.34	1144	78	0.27	915	0.23	763					
	600	10	0.24	1168	77	0.19	934	0.16	779					
	300	5	0.13	1252	75	0.10	1002	0.09	835					
	100	2	0.05	1312	71	0.04	1050	0.03	875					
80	2500	31	0.53	687	65	0.42	550	0.35	458	235	1025	1414	1500	1909
	1750	22	0.38	735	66	0.30	588	0.25	490					
	1160	15	0.29	837	67	0.23	670	0.19	558					
	870	11	0.23	892	68	0.18	714	0.15	595					
	600	8	0.16	947	71	0.13	758	0.11	631					
	300	4	0.08	988	70	0.06	790	0.05	659					
	100	1	0.03	988	64	0.02	790	0.02	659					
100	2500	25	0.34	490	57	0.27	392	0.23	327	235	1025	1414	1500	1909
	1750	18	0.27	576	59	0.22	461	0.18	384					
	1160	12	0.20	654	60	0.16	523	0.13	436					
	870	9	0.16	696	61	0.13	557	0.11	464					
	600	6	0.12	738	61	0.10	590	0.08	492					
	300	3	0.06	788	64	0.05	630	0.04	525					
	100	1	0.02	818	59	0.02	654	0.01	545					

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.

Ratings



2D DRAWINGS & 3D MODELS
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SINGLE REDUCTION

With Mobil Glygoyle 460 Lubricant



2.625 CENTER DISTANCE			HORSEPOWER AND TORQUE RATINGS							OVERHUNG LOAD CAPACITIES (lb)			THRUST LOAD CAPACITIES (lb)		
RATIO ¹	INPUT RPM ²	OUTPUT RPM	MECHANICAL							INPUT SHAFT ALL SHAFT INPUT MODELS	OUTPUT SHAFT ^{5,6}		OUTPUT SHAFT ⁶		
			1.00 SERVICE FACTOR			1.25 SERVICE FACTOR		1.50 SERVICE FACTOR			SOLID ³ SHAFT (e.g. MDNS)	HOLLOW ⁴ 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.)						
4	SEE MODIFIED PRODUCT SECTION														
	5	2500	500	9.11	1096	95	7.29	877	6.07	731	500	748	1302	844	1860
		1750	350	7.70	1334	96	6.16	1067	5.13	889					
		1160	232	5.96	1567	97	4.77	1254	3.97	1045					
		870	174	4.99	1756	97	3.99	1405	3.33	1171					
		600	120	3.91	1994	97	3.13	1595	2.61	1329					
		300	60	2.30	2330	96	1.84	1864	1.53	1553					
100		20	0.91	2584	90	0.73	2067	0.61	1723						
7.5	2500	333	7.08	1268	95	5.66	1014	4.72	845	500	799	1405	968	2160	
	1750	233	5.93	1533	96	4.74	1226	3.95	1022						
	1160	155	4.67	1836	97	3.74	1469	3.11	1224						
	870	116	3.92	2066	97	3.14	1653	2.61	1377						
	600	80	3.08	2356	97	2.46	1885	2.05	1571						
	300	40	1.68	2546	96	1.34	2037	1.12	1697						
	100	13	0.60	2542	89	0.48	2034	0.40	1695						
10	2500	250	5.73	1356	94	4.58	1085	3.82	904	250	895	1535	1067	2160	
	1750	175	4.82	1650	95	3.86	1320	3.21	1100						
	1160	116	3.41	1770	96	2.73	1416	2.27	1180						
	870	87	2.57	1782	96	2.06	1426	1.71	1188						
	600	60	1.81	1821	96	1.45	1457	1.21	1214						
	300	30	0.95	1888	94	0.76	1510	0.63	1259						
	100	10	0.35	1970	88	0.28	1576	0.23	1313						
15	2500	167	4.14	1434	92	3.31	1147	2.76	956	285	1025	1750	1238	2160	
	1750	117	3.42	1724	93	2.74	1379	2.28	1149						
	1160	77	2.41	1847	94	1.93	1478	1.61	1231						
	870	58	1.80	1849	94	1.44	1479	1.20	1233						
	600	40	1.24	1843	94	0.99	1474	0.83	1229						
	300	20	0.68	1999	93	0.54	1599	0.45	1333						
	100	7	0.27	2124	85	0.22	1699	0.18	1416						
20	2500	125	3.16	1426	89	2.53	1141	2.11	951	275	1025	1823	1500	2160	
	1750	88	2.64	1745	92	2.11	1396	1.76	1163						
	1160	58	1.76	1764	92	1.41	1411	1.17	1176						
	870	44	1.31	1762	93	1.05	1410	0.87	1175						
	600	30	0.93	1810	93	0.74	1448	0.62	1207						
	300	15	0.52	1968	91	0.42	1574	0.35	1312						
	100	5	0.20	2082	82	0.16	1666	0.13	1388						
25	2500	100	2.63	1455	88	2.10	1164	1.75	970	275	1025	1823	1500	2160	
	1750	70	2.17	1758	90	1.74	1406	1.45	1172						
	1160	46	1.43	1762	91	1.14	1410	0.95	1175						
	870	35	1.07	1769	91	0.86	1415	0.71	1179						
	600	24	0.74	1774	91	0.59	1419	0.49	1183						
	300	12	0.41	1920	89	0.33	1536	0.27	1280						
	100	4	0.16	2023	80	0.13	1618	0.11	1349						

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

E26

2.625 CENTER DISTANCE			HORSEPOWER AND TORQUE RATINGS							OVERHUNG LOAD CAPACITIES (lb)			THRUST LOAD CAPACITIES (lb)	
RATIO ¹	INPUT RPM ²	OUTPUT RPM	MECHANICAL							INPUT SHAFT	OUTPUT SHAFT ^{5,6}		OUTPUT SHAFT ⁶	
			1.00 SERVICE FACTOR			1.25 SERVICE FACTOR		1.50 SERVICE FACTOR		ALL SHAFT INPUT MODELS	SOLID ³ SHAFT (e.g. MDNS)	HOLLOW ⁴ 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	2.32	1500	85	1.86	1200	1.55	1000	282	1025	1823	1500	2160
	1750	58	1.80	1712	88	1.44	1370	1.20	1141					
	1160	39	1.28	1864	89	1.02	1491	0.85	1243					
	870	29	0.95	1858	90	0.76	1486	0.63	1239					
	600	20	0.68	1881	88	0.54	1505	0.45	1254					
	300	10	0.38	2055	85	0.30	1644	0.25	1370					
	100	3	0.15	2181	77	0.12	1745	0.10	1454					
40	2500	63	1.82	1499	82	1.46	1199	1.21	999	260	1025	1823	1500	2160
	1750	44	1.42	1737	85	1.14	1390	0.95	1158					
	1160	29	1.06	2028	88	0.85	1622	0.71	1352					
	870	22	0.81	2028	87	0.65	1622	0.54	1352					
	600	15	0.57	2022	84	0.46	1618	0.38	1348					
	300	8	0.29	2019	82	0.23	1615	0.19	1346					
	100	3	0.11	2071	74	0.09	1657	0.07	1381					
50	2500	50	1.48	1461	78	1.18	1169	0.99	974	285	1025	1823	1500	2160
	1750	35	1.18	1748	82	0.94	1398	0.79	1165					
	1160	23	0.84	1932	85	0.67	1546	0.56	1288					
	870	17	0.63	1924	84	0.50	1539	0.42	1283					
	600	12	0.45	1926	82	0.36	1541	0.30	1284					
	300	6	0.23	1934	79	0.18	1547	0.15	1289					
	100	2	0.09	1940	72	0.07	1552	0.06	1293					
60	2500	42	1.22	1387	75	0.98	1110	0.81	925	270	1025	1823	1500	2160
	1750	29	0.92	1556	78	0.74	1245	0.61	1037					
	1160	19	0.60	1562	80	0.48	1250	0.40	1041					
	870	15	0.45	1569	81	0.36	1255	0.30	1046					
	600	10	0.32	1587	79	0.26	1270	0.21	1058					
	300	5	0.18	1710	77	0.14	1368	0.12	1140					
	100	2	0.07	1797	69	0.06	1438	0.05	1198					
80	2500	31	0.69	947	69	0.55	758	0.46	631	270	1025	1823	1500	2160
	1750	22	0.49	979	70	0.39	783	0.33	653					
	1160	15	0.37	1126	69	0.30	901	0.25	751					
	870	11	0.29	1206	72	0.23	965	0.19	804					
	600	8	0.21	1285	74	0.17	1028	0.14	857					
	300	4	0.11	1380	72	0.09	1104	0.07	920					
	100	1	0.04	1395	64	0.03	1116	0.03	930					
100	2500	25	0.42	645	61	0.34	516	0.28	430	270	1025	1823	1500	2160
	1750	18	0.34	767	63	0.27	614	0.23	511					
	1160	12	0.25	880	64	0.20	704	0.17	587					
	870	9	0.20	941	64	0.16	753	0.13	627					
	600	6	0.15	1001	65	0.12	801	0.10	667					
	300	3	0.08	1073	67	0.06	858	0.05	715					
	100	1	0.03	1124	60	0.02	899	0.02	749					

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.



2D DRAWINGS & 3D MODELS
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SINGLE REDUCTION

With Mobil Glygoyle 460 Lubricant



3.000 CENTER DISTANCE			HORSEPOWER AND TORQUE RATINGS							OVERHUNG LOAD CAPACITIES (lb)			THRUST LOAD CAPACITIES (lb)	
RATIO ¹	INPUT RPM ²	OUTPUT RPM	MECHANICAL							INPUT SHAFT ALL SHAFT INPUT MODELS	OUTPUT SHAFT ^{5,6}		OUTPUT SHAFT ⁶	
			1.00 SERVICE FACTOR			1.25 SERVICE FACTOR		1.50 SERVICE FACTOR			SOLID ³ SHAFT (e.g. MDNS)	HOLLOW ⁴ 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.)	INPUT HP	OUTPUT TORQUE (lbf-in.)						
4	SEE MODIFIED PRODUCT SECTION													
5	2500	500	12.68	1534	96	10.14	1227	8.45	1023	560	1116	1175	1137	1856
	1750	350	10.87	1886	96	8.70	1509	7.25	1257					
	1160	232	8.75	2303	97	7.00	1842	5.83	1535					
	870	174	7.35	2583	97	5.88	2066	4.90	1722					
	600	120	5.73	2913	97	4.58	2330	3.82	1942					
	300	60	3.39	3395	95	2.71	2716	2.26	2263					
	100	20	1.34	3815	90	1.07	3052	0.89	2543					
7.5	2500	333	10.42	1881	95	8.34	1505	6.95	1254	600	1190	1260	1301	2146
	1750	233	8.59	2232	96	6.87	1786	5.73	1488					
	1160	155	7.11	2802	97	5.69	2242	4.74	1868					
	870	116	5.90	3109	97	4.72	2487	3.93	2073					
	600	80	4.69	3575	97	3.75	2860	3.13	2383					
	300	40	2.80	4192	95	2.24	3354	1.87	2795					
	100	13	1.08	4573	89	0.86	3658	0.72	3049					
10	2500	250	8.45	2016	95	6.76	1613	5.63	1344	400	1298	1368	1434	2365
	1750	175	7.11	2448	96	5.69	1958	4.74	1632					
	1160	116	5.31	2768	96	4.25	2214	3.54	1845					
	870	87	3.97	2761	96	3.18	2209	2.65	1841					
	600	60	2.77	2779	95	2.22	2223	1.85	1853					
	300	30	1.51	2949	93	1.21	2359	1.01	1966					
	100	10	0.57	3169	88	0.46	2535	0.38	2113					
15	2500	167	6.04	2120	93	4.83	1696	4.03	1413	450	1350	1583	1724	2711
	1750	117	5.07	2578	94	4.06	2062	3.38	1719					
	1160	77	3.35	2580	94	2.68	2064	2.23	1720					
	870	58	2.53	2595	94	2.02	2076	1.69	1730					
	600	40	1.92	2851	94	1.54	2281	1.28	1901					
	300	20	1.09	3166	92	0.87	2533	0.73	2111					
	100	7	0.42	3394	85	0.34	2715	0.28	2263					
20	2500	125	4.88	2253	92	3.90	1802	3.25	1502	450	1350	1750	1966	2800
	1750	88	3.95	2645	93	3.16	2116	2.63	1763					
	1160	58	2.70	2745	93	2.16	2196	1.80	1830					
	870	44	2.03	2752	94	1.62	2202	1.35	1835					
	600	30	1.44	2831	93	1.15	2265	0.96	1887					
	300	15	0.81	3116	91	0.65	2493	0.54	2077					
	100	5	0.32	3322	83	0.26	2658	0.21	2215					
25	2500	100	3.89	2200	90	3.11	1760	2.59	1467	500	1350	1890	2167	2800
	1750	70	3.24	2676	92	2.59	2141	2.16	1784					
	1160	46	2.19	2749	92	1.75	2199	1.46	1833					
	870	35	1.65	2768	93	1.32	2214	1.10	1845					
	600	24	1.15	2780	92	0.92	2224	0.77	1853					
	300	12	0.65	3042	90	0.52	2434	0.43	2028					
	100	4	0.25	3230	81	0.20	2584	0.17	2153					

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

E30

3.000 CENTER DISTANCE			HORSEPOWER AND TORQUE RATINGS						OVERHUNG LOAD CAPACITIES (lb)			THRUST LOAD CAPACITIES (lb)		
RATIO ¹	INPUT RPM ²	OUTPUT RPM	MECHANICAL						INPUT SHAFT	OUTPUT SHAFT ^{5,6}		OUTPUT SHAFT ⁶		
			1.00 SERVICE FACTOR			1.25 SERVICE FACTOR		1.50 SERVICE FACTOR	ALL SHAFT INPUT MODELS	SOLID ³ SHAFT (e.g. MDNS)	HOLLOW ⁴ 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	3.42	2272	88	2.74	1818	2.28	1515	500	1350	2020	2400	2800
	1750	58	2.67	2586	90	2.14	2069	1.78	1724					
	1160	39	1.95	2891	91	1.56	2313	1.30	1927					
	870	29	1.46	2894	91	1.17	2315	0.97	1929					
	600	20	1.05	2936	89	0.84	2349	0.70	1957					
	300	10	0.60	3250	86	0.48	2600	0.40	2167					
	100	3	0.24	3478	77	0.19	2782	0.16	2319					
40	2500	63	2.64	2263	85	2.11	1810	1.76	1509	500	1350	2020	2400	2800
	1750	44	2.08	2617	87	1.66	2094	1.39	1745					
	1160	29	1.59	3101	90	1.27	2481	1.06	2067					
	870	22	1.23	3137	88	0.98	2510	0.82	2091					
	600	15	0.87	3133	85	0.70	2506	0.58	2089					
	300	8	0.45	3132	83	0.36	2506	0.30	2088					
	100	3	0.18	3301	73	0.14	2641	0.12	2201					
50	2500	50	2.08	2132	81	1.66	1706	1.39	1421	500	1350	2020	2400	2800
	1750	35	1.72	2643	85	1.38	2114	1.15	1762					
	1160	23	1.29	3057	87	1.03	2446	0.86	2038					
	870	17	0.99	3059	85	0.79	2447	0.66	2039					
	600	12	0.70	3047	83	0.56	2438	0.47	2031					
	300	6	0.36	3067	80	0.29	2454	0.24	2045					
	100	2	0.14	3099	71	0.11	2479	0.09	2066					
60	2500	42	1.72	2033	78	1.38	1626	1.15	1355	500	1350	2020	2400	2800
	1750	29	1.34	2367	82	1.07	1894	0.89	1578					
	1160	19	0.88	2381	83	0.70	1905	0.59	1587					
	870	15	0.67	2395	83	0.54	1916	0.45	1597					
	600	10	0.49	2490	80	0.39	1992	0.33	1660					
	300	5	0.28	2712	78	0.22	2170	0.19	1808					
	100	2	0.11	2798	69	0.09	2238	0.07	1865					
80	2500	31	0.98	1434	72	0.78	1147	0.65	956	500	1350	2580	2400	2800
	1750	22	0.71	1478	73	0.57	1182	0.47	985					
	1160	15	0.54	1735	74	0.43	1388	0.36	1157					
	870	11	0.43	1876	76	0.34	1501	0.29	1251					
	600	8	0.32	2019	76	0.26	1615	0.21	1346					
	300	4	0.17	2050	73	0.14	1640	0.11	1367					
	100	1	0.06	2050	64	0.05	1640	0.04	1367					
100	2500	25	0.58	967	66	0.46	774	0.39	645	500	1350	2580	2400	2800
	1750	18	0.48	1160	67	0.38	928	0.32	773					
	1160	12	0.37	1356	67	0.30	1085	0.25	904					
	870	9	0.30	1465	67	0.24	1172	0.20	977					
	600	6	0.22	1573	70	0.18	1258	0.15	1049					
	300	3	0.12	1696	69	0.10	1357	0.08	1131					
	100	1	0.04	1696	61	0.03	1357	0.03	1131					

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.



2D DRAWINGS & 3D MODELS
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SINGLE REDUCTION

With Mobil Glygoyle 460 Lubricant



3.500 CENTER DISTANCE			HORSEPOWER AND TORQUE RATINGS							OVERHUNG LOAD CAPACITIES (lb)			THRUST LOAD CAPACITIES (lb)	
RATIO ¹	INPUT RPM ²	OUTPUT RPM	MECHANICAL							INPUT SHAFT ALL SHAFT INPUT MODELS	OUTPUT SHAFT ^{5,6}		OUTPUT SHAFT ⁶	
			1.00 SERVICE FACTOR			1.25 SERVICE FACTOR		1.50 SERVICE FACTOR			SOLID ³ SHAFT (e.g. MDNS)	HOLLOW ⁴ 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.)					
4														
	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					
5	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					
7.5	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					
10	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					
15	100	10	0.97	5395	88	0.78	4316	0.65	3597	750	2130	1998	2624	3339
	2500	167	8.84	3103	93	7.07	2482	5.89	2069					
	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					
20	300	20	2.42	7049	92	1.94	5639	1.61	4699	750	2130	2204	2973	3660
	100	7	0.97	7719	84	0.78	6175	0.65	5146					
	2500	125	6.91	3189	91	5.53	2551	4.61	2126					
	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					
25	600	30	3.12	6126	93	2.50	4901	2.08	4084	750	2130	2371	3261	4000
	300	15	1.68	6434	91	1.34	5147	1.12	4289					
	100	5	0.61	6394	83	0.49	5115	0.41	4263					
	2500	100	5.66	3215	90	4.53	2572	3.77	2143					
	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	750	2130	2371	3261	4000	
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 ¹	INPUT RPM ²	OUTPUT RPM	MECHANICAL							INPUT SHAFT	OUTPUT SHAFT ^{5,6}		OUTPUT SHAFT ⁶	
			1.00 SERVICE FACTOR			1.25 SERVICE FACTOR		1.50 SERVICE FACTOR		ALL SHAFT INPUT MODELS	SOLID ³ SHAFT (e.g. MDNS)	HOLLOW ⁴ 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.
 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.

Ratings



2D DRAWINGS & 3D MODELS
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SINGLE REDUCTION

With Mobil Glygoyle 460 Lubricant



4.250 CENTER DISTANCE			HORSEPOWER AND TORQUE RATINGS							OVERHUNG LOAD CAPACITIES (lb)			THRUST LOAD CAPACITIES (lb)		
RATIO ¹	INPUT RPM ²	OUTPUT RPM	MECHANICAL							INPUT SHAFT ALL SHAFT INPUT MODELS	OUTPUT SHAFT ^{5,6}		OUTPUT SHAFT ⁶		
			1.00 SERVICE FACTOR			1.25 SERVICE FACTOR		1.50 SERVICE FACTOR			SOLID ³ SHAFT (e.g. b MDNS)	HOLLOW ⁴ 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.)						
4	SEE MODIFIED PRODUCT SECTION														
	5	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						
7.5	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						
10	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						
15	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						
20	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						
25	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						

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 Wincsmith.

 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 ¹	INPUT RPM ²	OUTPUT RPM	MECHANICAL							INPUT SHAFT	OUTPUT SHAFT ^{5,6}		OUTPUT SHAFT ⁶	
			1.00 SERVICE FACTOR			1.25 SERVICE FACTOR		1.50 SERVICE FACTOR		ALL SHAFT INPUT MODELS	SOLID ³ SHAFT (e.g. MDNS)	HOLLOW ⁴ 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.

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.



2D DRAWINGS & 3D MODELS
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DOUBLE REDUCTION

With Mobil Glygoyle 460 Lubricant



CENTER DISTANCE DOUBLE WORM HELICAL WORM		PRIMARY 1.333 N/A	SECONDARY 1.750 N/A	HORSEPOWER AND TORQUE RATINGS								OVERHUNG LOAD CAPACITIES (lb)			THRUST LOAD CAPACITIES (lb)		
OVERALL RATIO ¹	PRIMARY RATIO ¹	SECONDARY RATIO ¹	INPUT RPM ²	OUTPUT RPM	MECHANICAL								ALL SHAFT INPUT MODELS	OUTPUT SHAFT ^{5,6}		OUTPUT SHAFT ⁶	
					1.00 SERVICE FACTOR		1.25 SERVICE FACTOR		1.50 SERVICE FACTOR		SOLID ³ SHAFT (e.g. MDND)	HOLLOW ⁴ SHAFT (e.g. MDSD)		SOLID SHAFT (e.g. MDND)	HOLLOW SHAFT (e.g. MDSD)		
					INPUT HP	OUTPUT TORQUE (lb·in.)	EFF	INPUT HP	OUTPUT TORQUE (lb·in.)	INPUT HP						OUTPUT TORQUE (lb·in.)	
50(D)	10	5	2500	50.0	0.689	762	88	0.551	610	0.459	508	125	572	1265	615	823	
			1750	35.0	0.487	781	89	0.390	625	0.325	521						
			1160	23.2	0.328	797	89	0.262	638	0.219	531						
			870	17.4	0.248	805	90	0.198	644	0.165	537						
			600	12.0	0.173	812	89	0.138	650	0.115	541						
			300	6.0	0.088	820	89	0.070	656	0.059	547						
			100	2.0	0.03	825	88	0.024	660	0.020	550						
75(D)	5	15	2500	33.3	0.36	564	83	0.288	451	0.240	376	136	650	1345	894	1310	
			1750	23.3	0.258	593	85	0.206	474	0.172	395						
			1160	15.5	0.167	589	86	0.134	471	0.111	393						
			870	11.6	0.127	596	87	0.102	477	0.085	397						
			600	8.0	0.089	603	86	0.071	482	0.059	402						
			300	4.0	0.046	611	85	0.037	489	0.031	407						
			100	1.3	0.015	616	84	0.012	493	0.010	411						
100(D)	5	20	2500	25.0	0.307	632	82	0.246	506	0.205	421	136	650	1345	894	1440	
			1750	17.5	0.221	671	84	0.177	537	0.147	447						
			1160	11.6	0.138	638	85	0.110	510	0.092	425						
			870	8.7	0.105	652	85	0.084	522	0.070	435						
			600	6.0	0.075	665	84	0.060	532	0.050	443						
			300	3.0	0.037	652	84	0.030	522	0.025	435						
			100	1.0	0.013	657	83	0.010	526	0.009	438						
150(D)	10	15	2500	16.7	0.194	587	80	0.155	470	0.129	391	125	650	1345	894	1310	
			1750	11.7	0.135	596	81	0.108	477	0.090	397						
			1160	7.7	0.091	603	82	0.073	482	0.061	402						
			870	5.8	0.068	607	82	0.054	486	0.045	405						
			600	4.0	0.047	611	82	0.038	489	0.031	407						
			300	2.0	0.023	615	83	0.018	492	0.015	410						
			100	0.7	0.008	617	82	0.006	494	0.005	411						

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.

Ratings



DOUBLE REDUCTION

With Mobil Glygoyle 460 Lubricant

REDUCER SIZE

E17

CENTER DISTANCE DOUBLE WORM HELICAL WORM		PRIMARY 1.333 N/A	SECONDARY 1.750 N/A	HORSEPOWER AND TORQUE RATINGS								OVERHUNG LOAD CAPACITIES (lb)			THRUST LOAD CAPACITIES (lb)		
OVERALL RATIO ¹	PRIMARY RATIO ¹	SECONDARY RATIO ¹	INPUT RPM ²	OUTPUT RPM	MECHANICAL								ALL SHAFT INPUT MODELS	SOLID ³ SHAFT (e.g. MDND)	HOLLOW ⁴ SHAFT (e.g. MDSD)	OUTPUT SHAFT ⁶	
					1.00 SERVICE FACTOR			1.25 SERVICE FACTOR			1.50 SERVICE FACTOR					SOLID SHAFT (e.g. MDND)	HOLLOW SHAFT (e.g. MDSD)
					INPUT HP	OUTPUT TORQUE (lbf-in.)	EFF	INPUT HP	OUTPUT TORQUE (lbf-in.)	INPUT HP	OUTPUT TORQUE (lbf-in.)						
200(D)	10	20	2500	12.5	0.16	633	79	0.128	506	0.107	422	125	650	1345	894	1440	
			1750	8.8	0.113	652	80	0.090	522	0.075	435						
			1160	5.8	0.076	666	80	0.061	533	0.051	444						
			870	4.4	0.056	648	80	0.045	518	0.037	432						
			600	3.0	0.038	652	81	0.030	522	0.025	435						
			300	1.5	0.019	655	82	0.015	524	0.013	437						
100	0.5	0.006	658	81	0.005	526	0.004	439									
300(D)	20	15	2500	8.3	0.113	602	70	0.090	482	0.075	401	100	650	1345	894	1310	
			1750	5.8	0.078	607	72	0.062	486	0.052	405						
			1160	3.9	0.051	611	74	0.041	489	0.034	407						
			870	2.9	0.037	613	75	0.030	490	0.025	409						
			600	2.0	0.025	615	77	0.020	492	0.017	410						
			300	1.0	0.012	617	78	0.010	494	0.008	411						
100	0.3	0.004	618	78	0.003	494	0.003	412									
500(D)	25	20	2500	5.0	0.077	646	66	0.062	517	0.051	431	100	650	1345	894	1440	
			1750	3.5	0.053	650	68	0.042	520	0.035	433						
			1160	2.3	0.034	653	72	0.027	522	0.023	435						
			870	1.7	0.025	655	73	0.020	524	0.017	437						
			600	1.2	0.017	656	75	0.014	525	0.011	437						
			300	0.6	0.008	658	77	0.006	526	0.005	439						
100	0.2	0.003	659	75	0.002	527	0.002	439									
750(D)	25	30	2500	3.3	0.055	655	63	0.044	524	0.037	437	100	650	1345	894	1440	
			1750	2.3	0.037	659	66	0.030	527	0.025	439						
			1160	1.6	0.024	662	69	0.019	530	0.016	441						
			870	1.2	0.017	664	70	0.014	531	0.011	443						
			600	0.8	0.012	665	72	0.010	532	0.008	443						
			300	0.4	0.006	667	74	0.005	534	0.004	445						
100	0.1	0.002	668	73	0.002	534	0.001	445									

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

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

Ratings

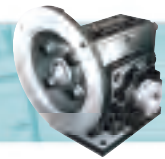


2D DRAWINGS & 3D MODELS
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DOUBLE REDUCTION

With Mobil Glygoyle 460 Lubricant



CENTER DISTANCE DOUBLE WORM HELICAL WORM		PRIMARY 1.333 N/A	SECONDARY 1.750 N/A	HORSEPOWER AND TORQUE RATINGS								OVERHUNG LOAD CAPACITIES (lb)			THRUST LOAD CAPACITIES (lb)		
OVERALL RATIO ¹	PRIMARY RATIO ¹	SECONDARY RATIO ¹	INPUT RPM ²	OUTPUT RPM	MECHANICAL								ALL SHAFT INPUT MODELS	OUTPUT SHAFT ^{5,6}		OUTPUT SHAFT ⁶	
					1.00 SERVICE FACTOR		1.25 SERVICE FACTOR		1.50 SERVICE FACTOR		SOLID ³ SHAFT (e.g. MDND)	HOLLOW ⁴ SHAFT (e.g. MDSD)		SOLID SHAFT (e.g. MDND)	HOLLOW SHAFT (e.g. MDSD)		
					INPUT HP	OUTPUT TORQUE (lbf-in.)	EFF	INPUT HP	OUTPUT TORQUE (lbf-in.)	INPUT HP						OUTPUT TORQUE (lbf-in.)	
1000(D)	50	20	2500	2.5	0.052	653	50	0.042	522	0.035	435	100	650	1345	894	1440	
			1750	1.8	0.033	655	55	0.026	524	0.022	437						
			1160	1.2	0.02	656	59	0.016	525	0.013	437						
			870	0.9	0.015	657	62	0.012	526	0.010	438						
			600	0.6	0.01	658	64	0.008	526	0.007	439						
			300	0.3	0.005	659	67	0.004	527	0.003	439						
			100	0.1	0.002	659	67	0.002	527	0.001	439						
1500(D)	50	30	2500	1.7	0.032	662	55	0.026	530	0.021	441	100	650	1345	894	1440	
			1750	1.2	0.022	664	56	0.018	531	0.015	443						
			1160	0.8	0.014	666	57	0.011	533	0.009	444						
			870	0.6	0.011	666	58	0.009	533	0.007	444						
			600	0.4	0.007	667	58	0.006	534	0.005	445						
			300	0.2	0.004	668	59	0.003	534	0.003	445						
			100	–	0.001	668	59	0.001	534	0.001	445						
2000(D)	50	40	2500	1.3	0.031	725	47	0.025	580	0.021	483	100	650	1345	894	1440	
			1750	0.9	0.02	727	52	0.016	582	0.013	485						
			1160	0.6	0.012	729	56	0.010	583	0.008	486						
			870	0.4	0.009	730	58	0.007	584	0.006	487						
			600	0.3	0.006	731	61	0.005	585	0.004	487						
			300	0.2	0.003	731	64	0.002	585	0.002	487						
			100	–	0.001	732	64	0.001	586	0.001	488						
3000(D)	60	50	2500	0.8	0.022	703	43	0.018	562	0.015	469	115	650	1345	894	1440	
			1750	0.6	0.015	749	47	0.012	599	0.010	499						
			1160	0.4	0.009	762	52	0.007	610	0.006	508						
			870	0.3	0.006	763	54	0.005	610	0.004	509						
			600	0.2	0.004	763	56	0.003	610	0.003	509						
			300	0.1	0.002	764	59	0.002	611	0.001	509						
			100	–	0.001	765	59	0.001	612	0.001	510						

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.





DOUBLE REDUCTION

With Mobil Glygoyle 460 Lubricant

REDUCER SIZE
E17

CENTER DISTANCE DOUBLE WORM HELICAL WORM		PRIMARY 1.333 N/A	SECONDARY 1.750 N/A	HORSEPOWER AND TORQUE RATINGS								OVERHUNG LOAD CAPACITIES (lb)			THRUST LOAD CAPACITIES (lb)		
OVERALL RATIO ¹	PRIMARY RATIO ¹	SECONDARY RATIO ¹	INPUT RPM ²	OUTPUT RPM	MECHANICAL								ALL SHAFT INPUT MODELS	OUTPUT SHAFT ^{5,6}		OUTPUT SHAFT ⁶	
					1.00 SERVICE FACTOR		1.25 SERVICE FACTOR		1.50 SERVICE FACTOR		SOLID ³ SHAFT (e.g. MDND)	HOLLOW ⁴ SHAFT (e.g. MDSD)		SOLID SHAFT (e.g. MDND)	HOLLOW SHAFT (e.g. MDSD)		
					INPUT HP	OUTPUT TORQUE (lbf-in.)	EFF	INPUT HP	OUTPUT TORQUE (lbf-in.)	INPUT HP						OUTPUT TORQUE (lbf-in.)	
3600(D)	60	60	2500	0.7	0.015	540	40	0.012	432	0.010	360	115	650	1345	894	1440	
			1750	0.5	0.01	581	45	0.008	465	0.007	387						
			1160	0.3	0.006	591	49	0.005	473	0.004	394						
			870	0.2	0.004	594	52	0.003	475	0.003	396						
			600	0.2	0.003	598	54	0.002	478	0.002	399						
			300	0.1	0.001	605	57	0.001	484	0.001	403						
100	-	0	608	57	0.000	486	0.000	405									
4150(D)	50	83	2500	0.6	0.011	421	38	0.009	337	0.007	281	100	650	1345	894	1440	
			1750	0.4	0.007	422	42	0.006	338	0.005	281						
			1160	0.3	0.004	427	46	0.003	342	0.003	285						
			870	0.2	0.003	432	48	0.002	346	0.002	288						
			600	0.1	0.002	437	51	0.002	350	0.001	291						
			300	0.1	0.001	442	54	0.001	354	0.001	295						
100	-	0	447	55	0.000	358	0.000	298									
4980(D)	60	83	2500	0.5	0.01	422	35	0.008	338	0.007	281	115	650	1345	894	1440	
			1750	0.4	0.006	423	39	0.005	338	0.004	282						
			1160	0.2	0.004	430	44	0.003	344	0.003	287						
			870	0.2	0.003	435	46	0.002	348	0.002	290						
			600	0.1	0.002	440	48	0.002	352	0.001	293						
			300	0.1	0.001	444	52	0.001	355	0.001	296						
100	-	0	447	52	0.000	358	0.000	298									
6000(D)	60	100	2500	0.4	0.006	303	32	0.005	242	0.004	202	115	650	1345	894	1440	
			1750	0.3	0.004	303	36	0.003	242	0.003	202						
			1160	0.2	0.002	304	40	0.002	243	0.001	203						
			870	0.2	0.002	304	43	0.002	243	0.001	203						
			600	0.1	0.001	304	45	0.001	243	0.001	203						
			300	0.1	0	304	49	0.000	243	0.000	203						
100	-	0	305	50	0.000	244	0.000	203									

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.

Ratings



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DOUBLE REDUCTION

With Mobil Glygoyle 460 Lubricant



CENTER DISTANCE DOUBLE WORM HELICAL WORM		PRIMARY 1.333 N/A	SECONDARY 2.000 N/A	HORSEPOWER AND TORQUE RATINGS								OVERHUNG LOAD CAPACITIES (lb)			THRUST LOAD CAPACITIES (lb)		
OVERALL RATIO ¹	PRIMARY RATIO ¹	SECONDARY RATIO ¹	INPUT RPM ²	OUTPUT RPM	MECHANICAL								ALL SHAFT INPUT MODELS	OUTPUT SHAFT ^{5,6}		OUTPUT SHAFT ⁶	
					1.00 SERVICE FACTOR			1.25 SERVICE FACTOR			1.50 SERVICE FACTOR			SOLID ³ SHAFT (e.g. MDND)	HOLLOW ⁴ SHAFT (e.g. MDSD)	SOLID SHAFT (e.g. MDND)	HOLLOW SHAFT (e.g. MDSD)
					INPUT HP	OUTPUT TORQUE (lbf-in.)	EFF	INPUT HP	OUTPUT TORQUE (lbf-in.)	INPUT HP	OUTPUT TORQUE (lbf-in.)						
SOLID OUTPUT 50(D) HOLLOW OUTPUT 53.3(D)	10	5	2500	50.0	0.955	1056	88	0.764	845	0.637	704	125	572	1265	615	1440	
			1750	35.0	0.727	1166	89	0.582	933	0.485	777						
			1160	23.2	0.494	1192	89	0.395	954	0.329	795						
	10	5	870	17.4	0.374	1206	89	0.299	965	0.249	804						
			600	12.0	0.262	1218	89	0.210	974	0.175	812						
			300	6.0	0.134	1232	87	0.107	986	0.089	821						
100	2.0	0.046	1241	86	0.037	993	0.031	827									
75(D)	5	15	2500	33.3	0.513	815	84	0.410	652	0.342	543	136	650	1345	894	1440	
			1750	23.3	0.364	845	86	0.291	676	0.243	563						
			1160	15.5	0.245	869	87	0.196	695	0.163	579						
			870	11.6	0.187	881	87	0.150	705	0.125	587						
			600	8.0	0.133	892	85	0.106	714	0.089	595						
			300	4.0	0.069	905	84	0.055	724	0.046	603						
100	1.3	0.023	914	83	0.018	731	0.015	609									
100(D)	5	20	2500	25.0	0.418	872	83	0.334	698	0.279	581	136	650	1345	894	1440	
			1750	17.5	0.304	930	85	0.243	744	0.203	620						
			1160	11.6	0.189	876	86	0.151	701	0.126	584						
			870	8.7	0.146	900	85	0.117	720	0.097	600						
			600	6.0	0.105	923	84	0.084	738	0.070	615						
			300	3.0	0.052	895	82	0.042	716	0.035	597						
100	1.0	0.018	903	81	0.014	722	0.012	602									
150(D)	10	15	2500	16.7	0.284	865	81	0.227	692	0.189	577	125	650	1345	894	1440	
			1750	11.7	0.199	881	82	0.159	705	0.133	587						
			1160	7.7	0.135	893	81	0.108	714	0.090	595						
			870	5.8	0.102	899	81	0.082	719	0.068	599						
			600	4.0	0.071	905	81	0.057	724	0.047	603						
			300	2.0	0.035	911	82	0.028	729	0.023	607						
100	0.7	0.012	916	80	0.010	733	0.008	611									

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.

Ratings





DOUBLE REDUCTION

With Mobil Glygoyle 460 Lubricant

REDUCER SIZE

E20

CENTER DISTANCE DOUBLE WORM HELICAL WORM		PRIMARY 1.333 N/A	SECONDARY 2.000 N/A	HORSEPOWER AND TORQUE RATINGS								OVERHUNG LOAD CAPACITIES (lb)			THRUST LOAD CAPACITIES (lb)		
OVERALL RATIO ¹	PRIMARY RATIO ¹	SECONDARY RATIO ¹	INPUT RPM ²	OUTPUT RPM	MECHANICAL								ALL SHAFT INPUT MODELS	OUTPUT SHAFT ^{5,6}		OUTPUT SHAFT ⁶	
					1.00 SERVICE FACTOR		1.25 SERVICE FACTOR		1.50 SERVICE FACTOR		SOLID ³ SHAFT (e.g. MDND)	HOLLOW ⁴ SHAFT (e.g. MDSD)		SOLID SHAFT (e.g. MDND)	HOLLOW SHAFT (e.g. MDSD)		
					INPUT HP	OUTPUT TORQUE (lbf-in.)	EFF	INPUT HP	OUTPUT TORQUE (lbf-in.)	INPUT HP						OUTPUT TORQUE (lbf-in.)	
200(D)	10	20	2500	12.5	0.218	869	79	0.174	695	0.145	579	125	650	1345	894	1440	
			1750	8.8	0.155	900	80	0.124	720	0.103	600						
			1160	5.8	0.107	925	80	0.086	740	0.071	617						
			870	4.4	0.077	890	80	0.062	712	0.051	593						
			600	3.0	0.054	895	79	0.043	716	0.036	597						
			300	1.5	0.027	901	81	0.022	721	0.018	601						
			100	0.5	0.009	905	79	0.007	724	0.006	603						
300(D)	20	15	2500	8.3	0.168	891	70	0.134	713	0.112	594	100	650	1345	894	1440	
			1750	5.8	0.116	899	72	0.093	719	0.077	599						
			1160	3.9	0.076	905	73	0.061	724	0.051	603						
			870	2.9	0.056	908	74	0.045	726	0.037	605						
			600	2.0	0.038	911	75	0.030	729	0.025	607						
			300	1.0	0.019	915	77	0.015	732	0.013	610						
			100	0.3	0.006	917	76	0.005	734	0.004	611						
500(D)	25	20	2500	5.0	0.108	887	65	0.086	710	0.072	591	100	650	1345	894	1440	
			1750	3.5	0.074	893	67	0.059	714	0.049	595						
			1160	2.3	0.047	898	70	0.038	718	0.031	599						
			870	1.7	0.035	900	72	0.028	720	0.023	600						
			600	1.2	0.024	902	73	0.019	722	0.016	601						
			300	0.6	0.012	905	75	0.010	724	0.008	603						
			100	0.2	0.004	906	73	0.003	725	0.003	604						
750(D)	25	30	2500	3.3	0.09	1080	63	0.072	864	0.060	720	100	650	1345	894	1440	
			1750	2.3	0.062	1088	65	0.050	870	0.041	725						
			1160	1.6	0.04	1094	68	0.032	875	0.027	729						
			870	1.2	0.029	1097	69	0.023	878	0.019	731						
			600	0.8	0.02	1099	70	0.016	879	0.013	733						
			300	0.4	0.01	1103	72	0.008	882	0.007	735						
			100	0.1	0.003	1105	71	0.002	884	0.002	737						

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.

Ratings



2D DRAWINGS & 3D MODELS
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DOUBLE REDUCTION

With Mobil Glygoyle 460 Lubricant



CENTER DISTANCE DOUBLE WORM HELICAL WORM		PRIMARY 1.333 N/A	SECONDARY 2.000 N/A	HORSEPOWER AND TORQUE RATINGS								OVERHUNG LOAD CAPACITIES (lb)			THRUST LOAD CAPACITIES (lb)		
OVERALL RATIO ¹	PRIMARY RATIO ¹	SECONDARY RATIO ¹	INPUT RPM ²	OUTPUT RPM	MECHANICAL								ALL SHAFT INPUT MODELS	OUTPUT SHAFT ^{5,6}		OUTPUT SHAFT ⁶	
					1.00 SERVICE FACTOR			1.25 SERVICE FACTOR			1.50 SERVICE FACTOR			SOLID ³ SHAFT (e.g. MDND)	HOLLOW ⁴ SHAFT (e.g. MDSD)	SOLID SHAFT (e.g. MDND)	HOLLOW SHAFT (e.g. MDSD)
					INPUT HP	OUTPUT TORQUE (lb-in.)	EFF	INPUT HP	OUTPUT TORQUE (lb-in.)	INPUT HP	OUTPUT TORQUE (lb-in.)						
1000(D)	50	20	2500	2.5	0.073	897	49	0.058	718	0.049	598	100	650	1345	894	1440	
			1750	1.8	0.047	900	54	0.038	720	0.031	600						
			1160	1.2	0.029	903	58	0.023	722	0.019	602						
			870	0.9	0.021	904	60	0.017	723	0.014	603						
			600	0.6	0.014	905	63	0.011	724	0.009	603						
			300	0.3	0.007	906	65	0.006	725	0.005	604						
			100	0.1	0.002	907	65	0.002	726	0.001	605						
1500(D)	50	30	2500	1.7	0.053	1093	54	0.042	874	0.035	729	100	650	1345	894	1440	
			1750	1.2	0.037	1097	55	0.030	878	0.025	731						
			1160	0.8	0.024	1100	56	0.019	880	0.016	733						
			870	0.6	0.018	1101	57	0.014	881	0.012	734						
			600	0.4	0.012	1103	56	0.010	882	0.008	735						
			300	0.2	0.006	1104	58	0.005	883	0.004	736						
			100	-	0.002	1105	57	0.002	884	0.001	737						
2000(D)	50	40	2500	1.3	0.044	1004	46	0.035	803	0.029	669	100	650	1345	894	1440	
			1750	0.9	0.028	1007	50	0.022	806	0.019	671						
			1160	0.6	0.017	1010	54	0.014	808	0.011	673						
			870	0.4	0.012	1011	56	0.010	809	0.008	674						
			600	0.3	0.008	1012	59	0.006	810	0.005	675						
			300	0.2	0.004	1014	62	0.003	811	0.003	676						
			100	-	0.001	1015	61	0.001	812	0.001	677						
3000(D)	60	50	2500	0.8	0.034	1067	42	0.027	854	0.023	711	115	650	1345	894	1440	
			1750	0.6	0.021	1070	46	0.017	856	0.014	713						
			1160	0.4	0.013	1072	50	0.010	858	0.009	715						
			870	0.3	0.009	1073	53	0.007	858	0.006	715						
			600	0.2	0.006	1074	55	0.005	859	0.004	716						
			300	0.1	0.003	1076	58	0.002	861	0.002	717						
			100	-	0.001	1076	57	0.001	861	0.001	717						

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.

Ratings





DOUBLE REDUCTION

With Mobil Glygoyle 460 Lubricant

REDUCER SIZE

E20

CENTER DISTANCE DOUBLE WORM HELICAL WORM		PRIMARY 1.333 N/A	SECONDARY 2.000 N/A	HORSEPOWER AND TORQUE RATINGS								OVERHUNG LOAD CAPACITIES (lb)			THRUST LOAD CAPACITIES (lb)		
OVERALL RATIO ¹	PRIMARY RATIO ¹	SECONDARY RATIO ¹	INPUT RPM ²	OUTPUT RPM	MECHANICAL								ALL SHAFT INPUT MODELS	SOLID ³ SHAFT (e.g. MDND)	HOLLOW ⁴ SHAFT (e.g. MDSD)	OUTPUT SHAFT ⁶	
					1.00 SERVICE FACTOR			1.25 SERVICE FACTOR			1.50 SERVICE FACTOR					SOLID SHAFT (e.g. MDND)	HOLLOW SHAFT (e.g. MDSD)
					INPUT HP	OUTPUT TORQUE (lb·in.)	EFF	INPUT HP	OUTPUT TORQUE (lb·in.)	INPUT HP	OUTPUT TORQUE (lb·in.)						
3600(D)	60	60	2500	0.7	0.023	834	40	0.018	667	0.015	556	115	650	1345	894	1440	
			1750	0.5	0.016	893	44	0.013	714	0.011	595						
			1160	0.3	0.01	904	49	0.008	723	0.007	603						
			870	0.2	0.007	910	51	0.006	728	0.005	607						
			600	0.2	0.005	915	53	0.004	732	0.003	610						
			300	0.1	0.002	925	56	0.002	740	0.001	617						
			100	–	0.001	926	56	0.001	741	0.001	617						
4100(D)	50	82	2500	0.6	0.015	595	39	0.012	476	0.010	397	100	650	1345	894	1440	
			1750	0.4	0.009	596	43	0.007	477	0.006	397						
			1160	0.3	0.006	597	46	0.005	478	0.004	398						
			870	0.2	0.004	598	49	0.003	478	0.003	399						
			600	0.1	0.003	599	51	0.002	479	0.002	399						
			300	0.1	0.001	599	54	0.001	479	0.001	399						
			100	–	0	600	55	0.000	480	0.000	400						
4920(D)	60	82	2500	0.5	0.013	595	36	0.010	476	0.009	397	115	650	1345	894	1440	
			1750	0.4	0.008	597	40	0.006	478	0.005	398						
			1160	0.2	0.005	598	44	0.004	478	0.003	399						
			870	0.2	0.004	598	47	0.003	478	0.003	399						
			600	0.1	0.002	599	49	0.002	479	0.001	399						
			300	0.1	0.001	599	52	0.001	479	0.001	399						
			100	–	0	600	52	0.000	480	0.000	400						
5940(D)	60	99	2500	0.4	0.01	480	32	0.008	384	0.007	320	115	650	1345	894	1440	
			1750	0.3	0.006	481	36	0.005	385	0.004	321						
			1160	0.2	0.004	482	40	0.003	386	0.003	321						
			870	0.2	0.003	483	42	0.002	386	0.002	322						
			600	0.1	0.002	483	44	0.002	386	0.001	322						
			300	0.1	0.001	483	48	0.001	386	0.001	322						
			100	–	0	484	48	0.000	387	0.000	323						

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.

Ratings



2D DRAWINGS & 3D MODELS
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DOUBLE REDUCTION

With Mobil Glygoyle 460 Lubricant



CENTER DISTANCE DOUBLE WORM HELICAL WORM		PRIMARY 1.750 2.060	SECONDARY 2.375 2.375	HORSEPOWER AND TORQUE RATINGS								OVERHUNG LOAD CAPACITIES (lb)			THRUST LOAD CAPACITIES (lb)		
OVERALL RATIO ¹	PRIMARY RATIO ¹	SECONDARY RATIO ¹	INPUT RPM ²	OUTPUT RPM	MECHANICAL								ALL SHAFT INPUT MODELS	OUTPUT SHAFT ^{5,6}		OUTPUT SHAFT ⁶	
					1.00 SERVICE FACTOR			1.25 SERVICE FACTOR			1.50 SERVICE FACTOR			SOLID ³ SHAFT (e.g. MDND)	HOLLOW ⁴ SHAFT (e.g. MDSD)	SOLID SHAFT (e.g. MDND)	HOLLOW SHAFT (e.g. MDSD)
					INPUT HP	OUTPUT TORQUE (lb-in.)	EFF	INPUT HP	OUTPUT TORQUE (lb-in.)	INPUT HP	OUTPUT TORQUE (lb-in.)						
25.3(H)	5.07	5	2500	98.6	2.639	1613	96	2.111	1290	1.759	1075	250	748	1100	844	1643	
			1750	69.0	1.974	1718	95	1.579	1374	1.316	1145						
			1160	45.8	1.391	1812	95	1.113	1450	0.927	1208						
			870	34.3	1.083	1862	94	0.866	1490	0.722	1241						
			600	23.7	0.786	1911	91	0.629	1529	0.524	1274						
			300	11.8	0.416	1968	89	0.333	1574	0.277	1312						
			100	3.9	0.147	2008	86	0.118	1606	0.098	1339						
30.4(H)	6.08	5	2500	82.2	2.28	1670	96	1.824	1336	1.520	1113	250	748	1100	844	1643	
			1750	57.6	1.693	1763	95	1.354	1410	1.129	1175						
			1160	38.2	1.188	1845	94	0.950	1476	0.792	1230						
			870	28.6	0.925	1888	93	0.740	1510	0.617	1259						
			600	19.7	0.658	1929	92	0.526	1543	0.439	1286						
			300	9.9	0.346	1978	90	0.277	1582	0.231	1319						
			100	3.3	0.12	2012	88	0.096	1610	0.080	1341						
38.0(H)	5.07	7.5	2500	65.7	1.798	1640	95	1.438	1312	1.199	1093	250	799	1187	968	1909	
			1750	46.0	1.393	1812	95	1.114	1450	0.929	1208						
			1160	30.5	0.855	1658	94	0.684	1326	0.570	1105						
			870	22.9	0.675	1724	93	0.540	1379	0.450	1149						
			600	15.8	0.497	1787	90	0.398	1430	0.331	1191						
			300	7.9	0.247	1716	87	0.198	1373	0.165	1144						
			100	2.6	0.085	1739	85	0.068	1391	0.057	1159						
50(D)	10	5	2500	50.0	1.589	1794	90	1.271	1435	1.059	1196	159	748	1100	844	1643	
			1750	35.0	1.148	1859	90	0.918	1487	0.765	1239						
			1160	23.2	0.794	1913	89	0.635	1530	0.529	1275						
			870	17.4	0.607	1941	88	0.486	1553	0.405	1294						
			600	12.0	0.43	1967	87	0.344	1574	0.287	1311						
			300	6.0	0.224	1998	85	0.179	1598	0.149	1332						
			100	2.0	0.078	2018	82	0.062	1614	0.052	1345						
50.7(H)	5.07	10	2500	49.3	1.09	1307	94	0.872	1046	0.727	871	250	895	1280	1067	1909	
			1750	34.5	0.821	1404	94	0.657	1123	0.547	936						
			1160	22.9	0.542	1381	92	0.434	1105	0.361	921						
			870	17.2	0.42	1404	91	0.336	1123	0.280	936						
			600	11.8	0.306	1426	88	0.245	1141	0.204	951						
			300	5.9	0.159	1450	86	0.127	1160	0.106	967						
			100	2.0	0.055	1467	84	0.044	1174	0.037	978						
60.8(H)	6.08	10	2500	41.1	0.946	1360	94	0.757	1088	0.631	907	250	895	1280	1067	1909	
			1750	28.8	0.666	1358	93	0.533	1086	0.444	905						
			1160	19.1	0.461	1396	92	0.369	1117	0.307	931						
			870	14.3	0.359	1416	90	0.287	1133	0.239	944						
			600	9.9	0.254	1434	88	0.203	1147	0.169	956						
			300	4.9	0.133	1454	86	0.106	1163	0.089	969						
			100	1.6	0.045	1468	86	0.036	1174	0.030	979						

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.





DOUBLE REDUCTION

With Mobil Glygoyle 460 Lubricant

REDUCER SIZE

E24

CENTER DISTANCE DOUBLE WORM HELICAL WORM		PRIMARY 1.750 2.060	SECONDARY 2.375 2.375	HORSEPOWER AND TORQUE RATINGS								OVERHUNG LOAD CAPACITIES (lb)			THRUST LOAD CAPACITIES (lb)		
OVERALL RATIO ¹	PRIMARY RATIO ¹	SECONDARY RATIO ¹	INPUT RPM ²	OUTPUT RPM	MECHANICAL								ALL SHAFT INPUT MODELS	OUTPUT SHAFT ^{5,6}		OUTPUT SHAFT ⁶	
					1.00 SERVICE FACTOR			1.25 SERVICE FACTOR			1.50 SERVICE FACTOR			SOLID ³ SHAFT (e.g. MDND)	HOLLOW ⁴ SHAFT (e.g. MDSD)	SOLID SHAFT (e.g. MDND)	HOLLOW SHAFT (e.g. MDSD)
					INPUT HP	OUTPUT TORQUE (lb·in.)	EFF	INPUT HP	OUTPUT TORQUE (lb·in.)	INPUT HP	OUTPUT TORQUE (lb·in.)						
75(D)	5	15	2500	33.3	0.846	1395	87	0.677	1116	0.564	930	183	1025	1414	1238	1909	
			1750	23.3	0.618	1476	88	0.494	1181	0.412	984						
			1160	15.5	0.413	1489	88	0.330	1191	0.275	993						
			870	11.6	0.319	1514	87	0.255	1211	0.213	1009						
			600	8.0	0.232	1537	84	0.186	1230	0.155	1025						
			300	4.0	0.123	1563	81	0.098	1250	0.082	1042						
100	1.3	0.043	1581	78	0.034	1265	0.029	1054									
76.0(H)	5.07	15	2500	32.9	0.79	1398	92	0.632	1118	0.527	932	250	1025	1414	1238	1909	
			1750	23.0	0.586	1479	92	0.469	1183	0.391	986						
			1160	15.3	0.397	1490	91	0.318	1192	0.265	993						
			870	11.4	0.308	1515	89	0.246	1212	0.205	1010						
			600	7.9	0.225	1537	85	0.180	1230	0.150	1025						
			300	3.9	0.119	1563	82	0.095	1250	0.079	1042						
100	1.3	0.041	1581	81	0.033	1265	0.027	1054									
91.1(H)	6.08	15	2500	27.4	0.68	1442	92	0.544	1154	0.453	961	250	1025	1414	1238	1909	
			1750	19.2	0.487	1466	92	0.390	1173	0.325	977						
			1160	12.7	0.338	1506	90	0.270	1205	0.225	1004						
			870	9.5	0.264	1527	88	0.211	1222	0.176	1018						
			600	6.6	0.187	1546	86	0.150	1237	0.125	1031						
			300	3.3	0.098	1568	83	0.078	1254	0.065	1045						
100	1.1	0.033	1582	84	0.026	1266	0.022	1055									
100(D)	5	20	2500	25.0	0.659	1429	86	0.527	1143	0.439	953	183	1025	1414	1500	1909	
			1750	17.5	0.49	1543	87	0.392	1234	0.327	1029						
			1160	11.6	0.311	1474	87	0.249	1179	0.207	983						
			870	8.7	0.242	1505	86	0.194	1204	0.161	1003						
			600	6.0	0.177	1534	82	0.142	1227	0.118	1023						
			300	3.0	0.092	1531	79	0.074	1225	0.061	1021						
100	1.0	0.032	1547	77	0.026	1238	0.021	1031									
101.3(H)	5.07	20	2500	24.7	0.616	1434	91	0.493	1147	0.411	956	250	1025	1414	1500	1909	
			1750	17.3	0.465	1547	91	0.372	1238	0.310	1031						
			1160	11.4	0.299	1476	90	0.239	1181	0.199	984						
			870	8.6	0.234	1506	88	0.187	1205	0.156	1004						
			600	5.9	0.172	1535	84	0.138	1228	0.115	1023						
			300	3.0	0.09	1531	80	0.072	1225	0.060	1021						
100	1.0	0.03	1547	80	0.024	1238	0.020	1031									
121.5(H)	6.08	20	2500	20.6	0.535	1496	91	0.428	1197	0.357	997	250	1025	1414	1500	1909	
			1750	14.4	0.365	1445	90	0.292	1156	0.243	963						
			1160	9.5	0.256	1496	89	0.205	1197	0.171	997						
			870	7.2	0.201	1522	86	0.161	1218	0.134	1015						
			600	4.9	0.14	1515	85	0.112	1212	0.093	1010						
			300	2.5	0.073	1535	82	0.058	1228	0.049	1023						
100	0.8	0.025	1548	82	0.020	1238	0.017	1032									

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.

DOUBLE REDUCTION

With Mobil Glygoyle 460 Lubricant



CENTER DISTANCE		PRIMARY	SECONDARY	HORSEPOWER AND TORQUE RATINGS								OVERHUNG LOAD CAPACITIES (lb)			THRUST LOAD CAPACITIES (lb)	
DOUBLE WORM		1.750	2.375	MECHANICAL								INPUT SHAFT	OUTPUT SHAFT ^{5,6}		OUTPUT SHAFT ⁶	
HELICAL WORM		2.060	2.375	1.00 SERVICE FACTOR			1.25 SERVICE FACTOR			1.50 SERVICE FACTOR		ALL SHAFT INPUT MODELS	SOLID ³ SHAFT (e.g. MDND)	HOLLOW ⁴ SHAFT (e.g. MDSD)	SOLID SHAFT (e.g. MDND)	HOLLOW SHAFT (e.g. MDSD)
OVERALL RATIO ¹	PRIMARY RATIO ¹	SECONDARY RATIO ¹	INPUT RPM ²	OUTPUT RPM	INPUT HP	OUTPUT TORQUE (lb-in.)	EFF	INPUT HP	OUTPUT TORQUE (lb-in.)	INPUT HP	OUTPUT TORQUE (lb-in.)					
150(D)	10	15	2500	16.7	0.467	1481	84	0.374	1185	0.311	987	159	1025	1414	1238	1909
			1750	11.7	0.334	1513	84	0.267	1210	0.223	1009					
			1160	7.7	0.232	1538	81	0.186	1230	0.155	1025					
			870	5.8	0.178	1551	80	0.142	1241	0.119	1034					
			600	4.0	0.126	1563	79	0.101	1250	0.084	1042					
			300	2.0	0.065	1576	78	0.052	1261	0.043	1051					
			100	0.7	0.023	1585	74	0.018	1268	0.015	1057					
152.0(H)	5.07	30	2500	16.4	0.422	1421	88	0.338	1137	0.281	947	250	1025	1414	1500	1909
			1750	11.5	0.307	1480	88	0.246	1184	0.205	987					
			1160	7.6	0.213	1528	87	0.170	1222	0.142	1019					
			870	5.7	0.165	1552	85	0.132	1242	0.110	1035					
			600	3.9	0.121	1575	81	0.097	1260	0.081	1050					
			300	2.0	0.064	1601	78	0.051	1281	0.043	1067					
			100	0.7	0.022	1618	77	0.018	1294	0.015	1079					
182.3(H)	6.08	30	2500	13.7	0.359	1454	88	0.287	1163	0.239	969	250	1025	1414	1500	1909
			1750	9.6	0.261	1503	88	0.209	1202	0.174	1002					
			1160	6.4	0.181	1544	86	0.145	1235	0.121	1029					
			870	4.8	0.142	1564	84	0.114	1251	0.095	1043					
			600	3.3	0.1	1583	82	0.080	1266	0.067	1055					
			300	1.6	0.053	1605	79	0.042	1284	0.035	1070					
			100	0.5	0.018	1620	80	0.014	1296	0.012	1080					
200(D)	10	20	2500	12.5	0.352	1464	83	0.282	1171	0.235	976	159	1025	1414	1500	1909
			1750	8.8	0.253	1504	82	0.202	1203	0.169	1003					
			1160	5.8	0.178	1536	80	0.142	1229	0.119	1024					
			870	4.4	0.134	1520	78	0.107	1216	0.089	1013					
			600	3.0	0.095	1531	77	0.076	1225	0.063	1021					
			300	1.5	0.048	1543	76	0.038	1234	0.032	1029					
			100	0.5	0.017	1551	73	0.014	1241	0.011	1034					
202.6(H)	5.07	40	2500	12.3	0.313	1362	85	0.250	1090	0.209	908	250	1025	1414	1500	1909
			1750	8.6	0.227	1414	85	0.182	1131	0.151	943					
			1160	5.7	0.156	1457	85	0.125	1166	0.104	971					
			870	4.3	0.122	1478	83	0.098	1182	0.081	985					
			600	3.0	0.09	1498	79	0.072	1198	0.060	999					
			300	1.5	0.048	1521	75	0.038	1217	0.032	1014					
			100	0.5	0.016	1536	75	0.013	1229	0.011	1024					
253.3(H)	5.07	50	2500	9.9	0.262	1390	83	0.210	1112	0.175	927	250	1025	1414	1500	1909
			1750	6.9	0.194	1485	84	0.155	1188	0.129	990					
			1160	4.6	0.124	1402	82	0.099	1122	0.083	935					
			870	3.4	0.097	1441	81	0.078	1153	0.065	961					
			600	2.4	0.073	1478	76	0.058	1182	0.049	985					
			300	1.2	0.037	1435	73	0.030	1148	0.025	957					
			100	0.4	0.012	1448	74	0.010	1158	0.008	965					

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.

Ratings





DOUBLE REDUCTION

With Mobil Glygoyle 460 Lubricant

REDUCER SIZE

E24

CENTER DISTANCE DOUBLE WORM HELICAL WORM		PRIMARY 1.750 2.060	SECONDARY 2.375 2.375	HORSEPOWER AND TORQUE RATINGS								OVERHUNG LOAD CAPACITIES (lb)			THRUST LOAD CAPACITIES (lb)		
OVERALL RATIO ¹	PRIMARY RATIO ¹	SECONDARY RATIO ¹	INPUT RPM ²	OUTPUT RPM	MECHANICAL								ALL SHAFT INPUT MODELS	OUTPUT SHAFT ^{5,6}		OUTPUT SHAFT ⁶	
					1.00 SERVICE FACTOR		1.25 SERVICE FACTOR		1.50 SERVICE FACTOR		SOLID ³ SHAFT (e.g. MDND)	HOLLOW ⁴ SHAFT (e.g. MDSD)		SOLID SHAFT (e.g. MDND)	HOLLOW SHAFT (e.g. MDSD)		
					INPUT HP	OUTPUT TORQUE (lb ² -in.)	EFF	INPUT HP	OUTPUT TORQUE (lb ² -in.)	INPUT HP						OUTPUT TORQUE (lb ² -in.)	
300(D)	20	15	2500	8.3	0.272	1535	75	0.218	1228	0.181	1023	149	1025	1414	1238	1909	
			1750	5.8	0.19	1551	75	0.152	1241	0.127	1034						
			1160	3.9	0.128	1564	75	0.102	1251	0.085	1043						
			870	2.9	0.097	1570	75	0.078	1256	0.065	1047						
			600	2.0	0.066	1576	75	0.053	1261	0.044	1051						
			300	1.0	0.033	1583	76	0.026	1266	0.022	1055						
100	0.3	0.012	1587	73	0.010	1270	0.008	1058									
303.8(H)	6.08	50	2500	8.2	0.225	1442	84	0.180	1154	0.150	961	250	1025	1414	1500	1909	
			1750	5.8	0.151	1363	83	0.121	1090	0.101	909						
			1160	3.8	0.106	1428	81	0.085	1142	0.071	952						
			870	2.9	0.084	1461	79	0.067	1169	0.056	974						
			600	2.0	0.058	1421	77	0.046	1137	0.039	947						
			300	1.0	0.03	1438	75	0.024	1150	0.020	959						
100	0.3	0.01	1449	76	0.008	1159	0.007	966									
364.6(H)	6.08	60	2500	6.9	0.167	1221	79	0.134	977	0.111	814	250	1025	1414	1500	1909	
			1750	4.8	0.12	1256	80	0.096	1005	0.080	837						
			1160	3.2	0.083	1284	78	0.066	1027	0.055	856						
			870	2.4	0.065	1299	76	0.052	1039	0.043	866						
			600	1.6	0.046	1312	75	0.037	1050	0.031	875						
			300	0.8	0.024	1364	73	0.019	1091	0.016	909						
100	0.3	0.009	1524	75	0.007	1219	0.006	1016									
500(D)	25	20	2500	5.0	0.176	1515	68	0.141	1212	0.117	1010	153	1025	1414	1500	1909	
			1750	3.5	0.124	1527	68	0.099	1222	0.083	1018						
			1160	2.3	0.082	1536	69	0.066	1229	0.055	1024						
			870	1.7	0.061	1541	69	0.049	1233	0.041	1027						
			600	1.2	0.042	1545	69	0.034	1236	0.028	1030						
			300	0.6	0.021	1550	70	0.017	1240	0.014	1033						
100	0.2	0.007	1553	67	0.006	1242	0.005	1035									
750(D)	25	30	2500	3.3	0.127	1583	66	0.102	1266	0.085	1055	153	1025	1414	1500	1909	
			1750	2.3	0.09	1596	66	0.072	1277	0.060	1064						
			1160	1.5	0.061	1606	65	0.049	1285	0.041	1071						
			870	1.2	0.045	1611	66	0.036	1289	0.030	1074						
			600	0.8	0.031	1616	67	0.025	1293	0.021	1077						
			300	0.4	0.015	1621	68	0.012	1297	0.010	1081						
100	0.1	0.005	1625	65	0.004	1300	0.003	1083									
1000(D)	50	20	2500	2.5	0.104	1535	58	0.083	1228	0.069	1023	171	1025	1414	1500	1909	
			1750	1.8	0.071	1541	61	0.057	1233	0.047	1027						
			1160	1.2	0.046	1545	62	0.037	1236	0.031	1030						
			870	0.9	0.034	1548	63	0.027	1238	0.023	1032						
			600	0.6	0.023	1550	64	0.018	1240	0.015	1033						
			300	0.3	0.011	1552	65	0.009	1242	0.007	1035						
100	0.1	0.004	1554	63	0.003	1243	0.003	1036									

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.



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DOUBLE REDUCTION

With Mobil Glygoyle 460 Lubricant



Ratings

CENTER DISTANCE		PRIMARY	SECONDARY	HORSEPOWER AND TORQUE RATINGS								OVERHUNG LOAD CAPACITIES (lb)			THRUST LOAD CAPACITIES (lb)	
DOUBLE WORM		1.750	2.375	MECHANICAL								INPUT SHAFT	OUTPUT SHAFT ^{5,6}		OUTPUT SHAFT ⁶	
HELICAL WORM		2.060	2.375	1.00 SERVICE FACTOR			1.25 SERVICE FACTOR		1.50 SERVICE FACTOR			ALL SHAFT INPUT MODELS	SOLID ³ SHAFT (e.g. MDND)	HOLLOW ⁴ SHAFT (e.g. MDSD)	SOLID SHAFT (e.g. MDND)	HOLLOW SHAFT (e.g. MDSD)
OVERALL RATIO ¹	PRIMARY RATIO ¹	SECONDARY RATIO ¹	INPUT RPM ²	OUTPUT RPM	INPUT HP	OUTPUT TORQUE (lbf-in.)	EFF	INPUT HP	OUTPUT TORQUE (lbf-in.)	INPUT HP	OUTPUT TORQUE (lbf-in.)					
1500(D)	50	30	2500	1.7	0.075	1605	57	0.060	1284	0.050	1070	171	1025	1414	1500	1909
			1750	1.2	0.052	1611	57	0.042	1289	0.035	1074					
			1160	0.8	0.035	1617	57	0.028	1294	0.023	1078					
			870	0.6	0.026	1619	57	0.021	1295	0.017	1079					
			600	0.4	0.018	1621	58	0.014	1297	0.012	1081					
			300	0.2	0.009	1624	58	0.007	1299	0.006	1083					
			100	0.1	0.003	1626	56	0.002	1301	0.002	1084					
2000(D)	50	40	2500	1.3	0.057	1524	53	0.046	1219	0.038	1016	171	1025	1414	1500	1909
			1750	0.9	0.038	1530	56	0.030	1224	0.025	1020					
			1160	0.6	0.024	1535	58	0.019	1228	0.016	1023					
			870	0.4	0.018	1537	59	0.014	1230	0.012	1025					
			600	0.3	0.012	1539	60	0.010	1231	0.008	1026					
			300	0.2	0.006	1542	62	0.005	1234	0.004	1028					
			100	0.1	0.002	1543	59	0.002	1234	0.001	1029					
3000(D)	60	50	2500	0.8	0.041	1441	47	0.033	1153	0.027	961	202	1025	1414	1500	1909
			1750	0.6	0.028	1445	49	0.022	1156	0.019	963					
			1160	0.4	0.017	1448	51	0.014	1158	0.011	965					
			870	0.3	0.012	1450	54	0.010	1160	0.008	967					
			600	0.2	0.008	1452	56	0.006	1162	0.005	968					
			300	0.1	0.004	1453	58	0.003	1162	0.003	969					
			100	-	0.001	1454	56	0.001	1163	0.001	969					
3600(D)	60	60	2500	0.7	0.034	1408	45	0.027	1126	0.023	939	202	1025	1414	1500	1909
			1750	0.5	0.025	1508	47	0.020	1206	0.017	1005					
			1160	0.3	0.016	1523	50	0.013	1218	0.011	1015					
			870	0.2	0.011	1525	52	0.009	1220	0.007	1017					
			600	0.2	0.007	1527	54	0.006	1222	0.005	1018					
			300	0.1	0.004	1528	56	0.003	1222	0.003	1019					
			100	-	0.001	1530	55	0.001	1224	0.001	1020					
4150(D)	83	50	2500	0.6	0.039	1444	36	0.031	1155	0.026	963	202	1025	1414	1500	1909
			1750	0.4	0.025	1447	41	0.020	1158	0.017	965					
			1160	0.3	0.015	1450	45	0.012	1160	0.010	967					
			870	0.2	0.011	1451	47	0.009	1161	0.007	967					
			600	0.1	0.007	1452	49	0.006	1162	0.005	968					
			300	0.1	0.003	1454	53	0.002	1163	0.002	969					
			100	-	0.001	1455	51	0.001	1164	0.001	970					

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.





DOUBLE REDUCTION

With Mobil Glygoyle 460 Lubricant

REDUCER SIZE

E24

CENTER DISTANCE		PRIMARY	SECONDARY	HORSEPOWER AND TORQUE RATINGS								OVERHUNG LOAD CAPACITIES (lb)			THRUST LOAD CAPACITIES (lb)	
DOUBLE WORM		1.750	2.375	MECHANICAL								INPUT SHAFT	OUTPUT SHAFT ^{5,6}		OUTPUT SHAFT ⁶	
HELICAL WORM		2.060	2.375	1.00 SERVICE FACTOR			1.25 SERVICE FACTOR			1.50 SERVICE FACTOR		ALL SHAFT INPUT MODELS	SOLID ³ SHAFT (e.g. MDND)	HOLLOW ⁴ SHAFT (e.g. MDSD)	SOLID SHAFT (e.g. MDND)	HOLLOW SHAFT (e.g. MDSD)
OVERALL RATIO ¹	PRIMARY RATIO ¹	SECONDARY RATIO ¹	INPUT RPM ²	OUTPUT RPM	INPUT HP	OUTPUT TORQUE (lbf-in.)	EFF	INPUT HP	OUTPUT TORQUE (lbf-in.)	INPUT HP	OUTPUT TORQUE (lbf-in.)					
5000(D)	100	50	2500	0.5	0.037	1446	31	0.030	1157	0.025	964	125	1025	1414	1500	1909
			1750	0.4	0.023	1449	35	0.018	1159	0.015	966					
			1160	0.2	0.014	1451	38	0.011	1161	0.009	967					
			870	0.2	0.01	1452	41	0.008	1162	0.007	968					
			600	0.1	0.006	1453	43	0.005	1162	0.004	969					
			300	0.1	0.003	1454	47	0.002	1163	0.002	969					
			100	-	0.001	1455	47	0.001	1164	0.001	970					
6000(D)	100	60	2500	0.4	0.033	1517	30	0.026	1214	0.022	1011	125	1025	1414	1500	1909
			1750	0.3	0.021	1524	34	0.017	1219	0.014	1016					
			1160	0.2	0.013	1526	37	0.010	1221	0.009	1017					
			870	0.1	0.009	1527	40	0.007	1222	0.006	1018					
			600	0.1	0.006	1528	42	0.005	1222	0.004	1019					
			300	0.1	0.003	1529	46	0.002	1223	0.002	1019					
			100	-	0.001	1530	46	0.001	1224	0.001	1020					
8000(D)	100	80	2500	0.3	0.018	988	27	0.014	790	0.012	659	125	1025	1414	1500	1909
			1750	0.2	0.011	988	31	0.009	790	0.007	659					
			1160	0.1	0.007	988	34	0.006	790	0.005	659					
			870	0.1	0.005	988	36	0.004	790	0.003	659					
			600	0.1	0.003	988	39	0.002	790	0.002	659					
			300	-	0.001	988	42	0.001	790	0.001	659					
			100	-	0	988	43	0.000	790	0.000	659					
10000(D)	100	100	2500	0.3	0.013	818	25	0.010	654	0.009	545	125	1025	1414	1500	1909
			1750	0.2	0.008	818	28	0.006	654	0.005	545					
			1160	0.1	0.005	818	31	0.004	654	0.003	545					
			870	0.1	0.003	818	33	0.002	654	0.002	545					
			600	0.1	0.002	818	35	0.002	654	0.001	545					
			300	-	0.001	818	38	0.001	654	0.001	545					
			100	-	0	818	39	0.000	654	0.000	545					

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.

Ratings



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DOUBLE REDUCTION

With Mobil Glygoyle 460 Lubricant



CENTER DISTANCE DOUBLE WORM HELICAL WORM		PRIMARY 1.750 2.060	SECONDARY 2.625 2.625	HORSEPOWER AND TORQUE RATINGS								OVERHUNG LOAD CAPACITIES (lb)			THRUST LOAD CAPACITIES (lb)		
OVERALL RATIO ¹	PRIMARY RATIO ¹	SECONDARY RATIO ¹	INPUT RPM ²	OUTPUT RPM	MECHANICAL								ALL SHAFT INPUT MODELS	OUTPUT SHAFT ^{5,6}		OUTPUT SHAFT ⁶	
					1.00 SERVICE FACTOR		1.25 SERVICE FACTOR		1.50 SERVICE FACTOR		SOLID ³ SHAFT (e.g. MDND)	HOLLOW ⁴ SHAFT (e.g. MDSD)		SOLID SHAFT (e.g. MDND)	HOLLOW SHAFT (e.g. MDSD)		
					INPUT HP	OUTPUT TORQUE (lb-ft-in.)	EFF	INPUT HP	OUTPUT TORQUE (lb-ft-in.)	INPUT HP						OUTPUT TORQUE (lb-ft-in.)	
25.3(H)	5.07	5	2500	98.6	3.447	2104	96	2.758	1683	2.298	1403	250	748	1302	844	1860	
			1750	69.0	2.61	2266	95	2.088	1813	1.740	1511						
			1160	45.8	1.865	2414	94	1.492	1931	1.243	1609						
			870	34.3	1.462	2487	93	1.170	1990	0.975	1658						
			600	23.7	1.071	2558	90	0.857	2046	0.714	1705						
			300	11.8	0.567	2643	88	0.454	2114	0.378	1762						
			100	3.9	0.197	2703	86	0.158	2162	0.131	1802						
30.4(H)	6.08	5	2500	82.2	3	2192	95	2.400	1754	2.000	1461	250	748	1302	844	1860	
			1750	57.6	2.26	2343	95	1.808	1874	1.507	1562						
			1160	38.2	1.599	2462	93	1.279	1970	1.066	1641						
			870	28.6	1.254	2525	91	1.003	2020	0.836	1683						
			600	19.7	0.896	2586	90	0.717	2069	0.597	1724						
			300	9.9	0.476	2658	88	0.381	2126	0.317	1772						
			100	3.3	0.165	2708	86	0.132	2166	0.110	1805						
38.0(H)	5.07	7.5	2500	65.7	2.631	2403	95	2.105	1922	1.754	1602	250	799	1405	968	2160	
			1750	46.0	1.999	2596	95	1.599	2077	1.333	1731						
			1160	30.5	1.29	2490	93	1.032	1992	0.860	1660						
			870	22.9	1.028	2601	92	0.822	2081	0.685	1734						
			600	15.8	0.767	2709	88	0.614	2167	0.511	1806						
			300	7.9	0.372	2581	87	0.298	2065	0.248	1721						
			100	2.6	0.129	2620	85	0.103	2096	0.086	1747						
50(D)	10	5	2500	50.0	1.833	2054	89	1.466	1643	1.222	1369	159	748	1302	844	1860	
			1750	35.0	1.491	2391	89	1.193	1913	0.994	1594						
			1160	23.2	1.083	2562	87	0.866	2050	0.722	1708						
			870	17.4	0.831	2603	86	0.665	2082	0.554	1735						
			600	12.0	0.585	2642	86	0.468	2114	0.390	1761						
			300	6.0	0.291	2607	85	0.233	2086	0.194	1738						
			100	2.0	0.102	2598	81	0.082	2078	0.068	1732						
50.7(H)	5.07	10	2500	49.3	1.512	1815	94	1.210	1452	1.008	1210	250	895	1535	1067	2160	
			1750	34.5	1.146	1954	93	0.917	1563	0.764	1303						
			1160	22.9	0.755	1906	92	0.604	1525	0.503	1271						
			870	17.2	0.593	1951	90	0.474	1561	0.395	1301						
			600	11.8	0.43	1994	87	0.344	1595	0.287	1329						
			300	5.9	0.217	1995	86	0.174	1596	0.145	1330						
			100	2.0	0.075	2019	84	0.060	1615	0.050	1346						
60.8(H)	6.08	10	2500	41.1	1.316	1891	94	1.053	1513	0.877	1261	250	895	1535	1067	2160	
			1750	28.8	0.917	1860	93	0.734	1488	0.611	1240						
			1160	19.1	0.648	1936	90	0.518	1549	0.432	1291						
			870	14.3	0.511	1974	88	0.409	1579	0.341	1316						
			600	9.9	0.355	1970	87	0.284	1576	0.237	1313						
			300	4.9	0.182	2001	86	0.146	1601	0.121	1334						
			100	1.6	0.063	2021	84	0.050	1617	0.042	1347						

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.

Ratings





DOUBLE REDUCTION

With Mobil Glygoyle 460 Lubricant

REDUCER SIZE

E26

CENTER DISTANCE DOUBLE WORM HELICAL WORM		PRIMARY 1.750 2.060	SECONDARY 2.625 2.625	HORSEPOWER AND TORQUE RATINGS								OVERHUNG LOAD CAPACITIES (lb)			THRUST LOAD CAPACITIES (lb)	
OVERALL RATIO ¹	PRIMARY RATIO ¹	SECONDARY RATIO ¹	INPUT RPM ²	OUTPUT RPM	MECHANICAL							ALL SHAFT INPUT MODELS	OUTPUT SHAFT ^{5,6}		OUTPUT SHAFT ⁶	
					1.00 SERVICE FACTOR		1.25 SERVICE FACTOR		1.50 SERVICE FACTOR				SOLID ³ SHAFT (e.g. MDND)	HOLLOW ⁴ SHAFT (e.g. MDSD)	SOLID SHAFT (e.g. MDND)	HOLLOW SHAFT (e.g. MDSD)
			INPUT HP	OUTPUT TORQUE (lbf-in.)	EFF	INPUT HP	OUTPUT TORQUE (lbf-in.)	INPUT HP	OUTPUT TORQUE (lbf-in.)	INPUT HP	OUTPUT TORQUE (lbf-in.)					
75(D)	5	15	2500	33.3	1.141	1887	87	0.913	1510	0.761	1258	183	1025	1750	1238	2160
			1750	23.3	0.831	1985	88	0.665	1588	0.554	1323					
			1160	15.5	0.569	2040	88	0.455	1632	0.379	1360					
			870	11.6	0.443	2076	86	0.354	1661	0.295	1384					
			600	8.0	0.326	2111	82	0.261	1689	0.217	1407					
			300	4.0	0.168	2150	81	0.134	1720	0.112	1433					
			100	1.3	0.06	2176	77	0.048	1741	0.040	1451					
76.0(H)	5.07	15	2500	32.9	1.065	1891	93	0.852	1513	0.710	1261	250	1025	1750	1238	2160
			1750	23.0	0.789	1988	92	0.631	1590	0.526	1325					
			1160	15.3	0.547	2042	90	0.438	1634	0.365	1361					
			870	11.4	0.428	2078	88	0.342	1662	0.285	1385					
			600	7.9	0.316	2112	84	0.253	1690	0.211	1408					
			300	3.9	0.163	2150	83	0.130	1720	0.109	1433					
			100	1.3	0.057	2176	80	0.046	1741	0.038	1451					
91.1(H)	6.08	15	2500	27.4	0.915	1944	92	0.732	1555	0.610	1296	250	1025	1750	1238	2160
			1750	19.2	0.668	2006	91	0.534	1605	0.445	1337					
			1160	12.7	0.468	2066	89	0.374	1653	0.312	1377					
			870	9.5	0.368	2096	86	0.294	1677	0.245	1397					
			600	6.6	0.263	2125	84	0.210	1700	0.175	1417					
			300	3.3	0.137	2157	82	0.110	1726	0.091	1438					
			100	1.1	0.075	3490	81	0.060	2792	0.050	2327					
100(D)	5	20	2500	25.0	0.855	1861	86	0.684	1489	0.570	1241	183	1025	1823	1500	2160
			1750	17.5	0.617	1941	87	0.494	1553	0.411	1294					
			1160	11.6	0.425	2006	87	0.340	1605	0.283	1337					
			870	8.7	0.33	2039	85	0.264	1631	0.220	1359					
			600	6.0	0.243	2070	81	0.194	1656	0.162	1380					
			300	3.0	0.127	2105	79	0.102	1684	0.085	1403					
			100	1.0	0.045	2129	74	0.036	1703	0.030	1419					
101.3(H)	5.07	20	2500	24.7	0.798	1865	91	0.638	1492	0.532	1243	250	1025	1823	1500	2160
			1750	17.3	0.585	1944	91	0.468	1555	0.390	1296					
			1160	11.4	0.408	2008	89	0.326	1606	0.272	1339					
			870	8.6	0.319	2040	87	0.255	1632	0.213	1360					
			600	5.9	0.237	2071	82	0.190	1657	0.158	1381					
			300	3.0	0.123	2106	80	0.098	1685	0.082	1404					
			100	1.0	0.043	2129	78	0.034	1703	0.029	1419					
121.5(H)	6.08	20	2500	20.6	0.682	1908	91	0.546	1526	0.455	1272	250	1025	1823	1500	2160
			1750	14.4	0.499	1975	90	0.399	1580	0.333	1317					
			1160	9.5	0.349	2029	88	0.279	1623	0.233	1353					
			870	7.2	0.275	2057	85	0.220	1646	0.183	1371					
			600	4.9	0.196	2082	83	0.157	1666	0.131	1388					
			300	2.5	0.104	2111	80	0.083	1689	0.069	1407					
			100	0.8	0.035	2131	80	0.028	1705	0.023	1421					

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.

Ratings



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DOUBLE REDUCTION

With Mobil Glygoyle 460 Lubricant



CENTER DISTANCE DOUBLE WORM HELICAL WORM		PRIMARY 1.750 2.060	SECONDARY 2.625 2.625	HORSEPOWER AND TORQUE RATINGS								OVERHUNG LOAD CAPACITIES (lb)			THRUST LOAD CAPACITIES (lb)				
OVERALL RATIO ¹	PRIMARY RATIO ¹	SECONDARY RATIO ¹	INPUT RPM ²	OUTPUT RPM	MECHANICAL										ALL SHAFT INPUT MODELS	OUTPUT SHAFT ^{5,6}		OUTPUT SHAFT ⁶	
					1.00 SERVICE FACTOR			1.25 SERVICE FACTOR			1.50 SERVICE FACTOR					SOLID ³ SHAFT (e.g. MDND)	HOLLOW ⁴ SHAFT (e.g. MDSD)	SOLID SHAFT (e.g. MDND)	HOLLOW SHAFT (e.g. MDSD)
					INPUT HP	OUTPUT TORQUE (lb·in.)	EFF	INPUT HP	OUTPUT TORQUE (lb·in.)	INPUT HP	OUTPUT TORQUE (lb·in.)	INPUT HP	OUTPUT TORQUE (lb·in.)						
150(D)	10	15	2500	16.7	0.643	2029	84	0.514	1623	0.429	1353	159	1025	1750	1238	2160			
			1750	11.7	0.464	2076	83	0.371	1661	0.309	1384								
			1160	7.7	0.325	2113	80	0.260	1690	0.217	1409								
			870	5.8	0.247	2132	80	0.198	1706	0.165	1421								
			600	4.0	0.172	2150	79	0.138	1720	0.115	1433								
			300	2.0	0.088	2169	78	0.070	1735	0.059	1446								
			100	0.7	0.051	3490	73	0.041	2792	0.034	2327								
152.0(H)	5.07	30	2500	16.4	0.57	1941	89	0.456	1553	0.380	1294	250	1025	1823	1500	2160			
			1750	11.5	0.418	2028	89	0.334	1622	0.279	1352								
			1160	7.6	0.293	2099	87	0.234	1679	0.195	1399								
			870	5.7	0.229	2135	84	0.183	1708	0.153	1423								
			600	3.9	0.171	2169	79	0.137	1735	0.114	1446								
			300	2.0	0.093	2207	75	0.074	1766	0.062	1471								
			100	0.7	0.032	2233	73	0.026	1786	0.021	1489								
182.3(H)	6.08	30	2500	13.7	0.487	1989	89	0.390	1591	0.325	1326	250	1025	1823	1500	2160			
			1750	9.6	0.357	2063	88	0.286	1650	0.238	1375								
			1160	6.4	0.251	2123	86	0.201	1698	0.167	1415								
			870	4.8	0.198	2153	82	0.158	1722	0.132	1435								
			600	3.3	0.141	2182	81	0.113	1746	0.094	1455								
			300	1.6	0.076	2214	76	0.061	1771	0.051	1476								
			100	0.5	0.025	2235	76	0.020	1788	0.017	1490								
200(D)	10	20	2500	12.5	0.48	1996	83	0.384	1597	0.320	1331	159	1025	1823	1500	2160			
			1750	8.8	0.346	2038	82	0.277	1630	0.231	1359								
			1160	5.8	0.244	2072	78	0.195	1658	0.163	1381								
			870	4.4	0.186	2089	77	0.149	1671	0.124	1393								
			600	3.0	0.13	2105	77	0.104	1684	0.087	1403								
			300	1.5	0.067	2123	75	0.054	1698	0.045	1415								
			100	0.5	0.024	2135	70	0.019	1708	0.016	1423								
202.6(H)	5.07	40	2500	12.3	0.444	1975	87	0.355	1580	0.296	1317	250	1025	1823	1500	2160			
			1750	8.6	0.338	2142	87	0.270	1714	0.225	1428								
			1160	5.7	0.217	2021	85	0.174	1617	0.145	1347								
			870	4.3	0.172	2070	82	0.138	1656	0.115	1380								
			600	3.0	0.13	2117	77	0.104	1694	0.087	1411								
			300	1.5	0.068	2095	72	0.054	1676	0.045	1397								
			100	0.5	0.023	2118	71	0.018	1694	0.015	1412								
253.3(H)	5.07	50	2500	9.9	0.35	1890	85	0.280	1512	0.233	1260	250	1025	1823	1500	2160			
			1750	6.9	0.263	2035	85	0.210	1628	0.175	1357								
			1160	4.6	0.168	1910	82	0.134	1528	0.112	1273								
			870	3.4	0.134	1965	80	0.107	1572	0.089	1310								
			600	2.4	0.102	2018	74	0.082	1614	0.068	1345								
			300	1.2	0.053	1960	69	0.042	1568	0.035	1307								
			100	0.4	0.018	1980	69	0.014	1584	0.012	1320								

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.





DOUBLE REDUCTION

With Mobil Glygoyle 460 Lubricant

REDUCER SIZE

E26

CENTER DISTANCE DOUBLE WORM HELICAL WORM		PRIMARY 1.750 2.060	SECONDARY 2.625 2.625	HORSEPOWER AND TORQUE RATINGS								OVERHUNG LOAD CAPACITIES (lb)			THRUST LOAD CAPACITIES (lb)		
OVERALL RATIO ¹	PRIMARY RATIO ¹	SECONDARY RATIO ¹	INPUT RPM ²	OUTPUT RPM	MECHANICAL								ALL SHAFT INPUT MODELS	OUTPUT SHAFT ^{5,6}		OUTPUT SHAFT ⁶	
					1.00 SERVICE FACTOR			1.25 SERVICE FACTOR			1.50 SERVICE FACTOR			SOLID ³ SHAFT (e.g. MDND)	HOLLOW ⁴ SHAFT (e.g. MDSD)	SOLID SHAFT (e.g. MDND)	HOLLOW SHAFT (e.g. MDSD)
			INPUT HP	OUTPUT TORQUE (lbf-in.)	EFF	INPUT HP	OUTPUT TORQUE (lbf-in.)	INPUT HP	OUTPUT TORQUE (lbf-in.)								
300(D)	20	15	2500	8.3	0.382	2108	73	0.306	1686	0.255	1405	149	1025	1750	1238	2160	
			1750	5.8	0.266	2132	74	0.213	1706	0.177	1421						
			1160	3.9	0.176	2151	75	0.141	1721	0.117	1434						
			870	2.9	0.132	2160	75	0.106	1728	0.088	1440						
			600	2.0	0.092	2169	75	0.074	1735	0.061	1446						
			300	1.0	0.075	3490	74	0.060	2792	0.050	2327						
			100	0.3	0.026	3490	70	0.021	2792	0.017	2327						
303.8(H)	6.08	50	2500	8.2	0.303	1969	85	0.242	1575	0.202	1313	250	1025	1823	1500	2160	
			1750	5.8	0.203	1853	83	0.162	1482	0.135	1235						
			1160	3.8	0.146	1946	81	0.117	1557	0.097	1297						
			870	2.9	0.117	1993	78	0.094	1594	0.078	1329						
			600	2.0	0.081	1940	76	0.065	1552	0.054	1293						
			300	1.0	0.043	1965	72	0.034	1572	0.029	1310						
			100	0.3	0.014	1982	73	0.011	1586	0.009	1321						
364.6(H)	6.08	60	2500	6.9	0.223	1663	81	0.178	1330	0.149	1109	250	1025	1823	1500	2160	
			1750	4.8	0.162	1715	81	0.130	1372	0.108	1143						
			1160	3.2	0.113	1757	78	0.090	1406	0.075	1171						
			870	2.4	0.09	1778	75	0.072	1422	0.060	1185						
			600	1.6	0.064	1797	73	0.051	1438	0.043	1198						
			300	0.8	0.035	1856	70	0.028	1485	0.023	1237						
			100	0.3	0.013	2082	71	0.010	1666	0.009	1388						
500(D)	25	20	2500	5.0	0.242	2082	68	0.194	1666	0.161	1388	153	1025	1823	1500	2160	
			1750	3.5	0.169	2099	69	0.135	1679	0.113	1399						
			1160	2.3	0.112	2113	70	0.090	1690	0.075	1409						
			870	1.7	0.084	2120	70	0.067	1696	0.056	1413						
			600	1.2	0.058	2126	70	0.046	1701	0.039	1417						
			300	0.6	0.029	2133	70	0.023	1706	0.019	1422						
			100	0.2	0.01	2138	66	0.008	1710	0.007	1425						
750(D)	25	30	2500	3.3	0.181	2181	64	0.145	1745	0.121	1454	153	1025	1823	1500	2160	
			1750	2.3	0.128	2200	64	0.102	1760	0.085	1467						
			1160	1.5	0.085	2216	64	0.068	1773	0.057	1477						
			870	1.2	0.064	2223	64	0.051	1778	0.043	1482						
			600	0.8	0.044	2230	64	0.035	1784	0.029	1487						
			300	0.4	0.022	2238	64	0.018	1790	0.015	1492						
			100	0.1	0.008	2244	61	0.006	1795	0.005	1496						
1000(D)	50	20	2500	2.5	0.142	2111	59	0.114	1689	0.095	1407	171	1025	1823	1500	2160	
			1750	1.8	0.096	2120	61	0.077	1696	0.064	1413						
			1160	1.2	0.063	2127	62	0.050	1702	0.042	1418						
			870	0.9	0.047	2130	63	0.038	1704	0.031	1420						
			600	0.6	0.032	2133	63	0.026	1706	0.021	1422						
			300	0.3	0.016	2137	64	0.013	1710	0.011	1425						
			100	0.1	0.006	2139	61	0.005	1711	0.004	1426						

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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 6. Overhung load and thrust load ratings are computed independent of each other. For combined load applications, contact Winsmith.

Ratings



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DOUBLE REDUCTION

With Mobil Glygoyle 460 Lubricant



CENTER DISTANCE DOUBLE WORM HELICAL WORM		PRIMARY 1.750 2.060	SECONDARY 2.625 2.625	HORSEPOWER AND TORQUE RATINGS								OVERHUNG LOAD CAPACITIES (lb)			THRUST LOAD CAPACITIES (lb)		
OVERALL RATIO ¹	PRIMARY RATIO ¹	SECONDARY RATIO ¹	INPUT RPM ²	OUTPUT RPM	MECHANICAL								ALL SHAFT INPUT MODELS	OUTPUT SHAFT ^{5,6}		OUTPUT SHAFT ⁶	
					1.00 SERVICE FACTOR		1.25 SERVICE FACTOR		1.50 SERVICE FACTOR		SOLID ³ SHAFT (e.g. MDND)	HOLLOW ⁴ SHAFT (e.g. MDSD)		SOLID SHAFT (e.g. MDND)	HOLLOW SHAFT (e.g. MDSD)		
					INPUT HP	OUTPUT TORQUE (lbf-in.)	EFF	INPUT HP	OUTPUT TORQUE (lbf-in.)	INPUT HP						OUTPUT TORQUE (lbf-in.)	
1500(D)	50	30	2500	1.7	0.104	2213	56	0.083	1770	0.069	1475	171	1025	1823	1500	2160	
			1750	1.2	0.074	2223	56	0.059	1778	0.049	1482						
			1160	0.8	0.05	2231	54	0.040	1785	0.033	1487						
			870	0.6	0.038	2235	54	0.030	1788	0.025	1490						
			600	0.4	0.026	2238	55	0.021	1790	0.017	1492						
			300	0.2	0.013	2242	54	0.010	1794	0.009	1495						
			100	0.1	0.004	2245	53	0.003	1796	0.003	1497						
2000(D)	50	40	2500	1.3	0.08	2100	52	0.064	1680	0.053	1400	171	1025	1823	1500	2160	
			1750	0.9	0.054	2109	54	0.043	1687	0.036	1406						
			1160	0.6	0.036	2116	55	0.029	1693	0.024	1411						
			870	0.4	0.026	2119	55	0.021	1695	0.017	1413						
			600	0.3	0.018	2122	56	0.014	1698	0.012	1415						
			300	0.2	0.009	2126	58	0.007	1701	0.006	1417						
			100	0.1	0.003	2128	55	0.002	1702	0.002	1419						
3000(D)	60	50	2500	0.8	0.058	1969	45	0.046	1575	0.039	1313	202	1025	1823	1500	2160	
			1750	0.6	0.04	1976	46	0.032	1581	0.027	1317						
			1160	0.4	0.025	1981	48	0.020	1585	0.017	1321						
			870	0.3	0.018	1983	50	0.014	1586	0.012	1322						
			600	0.2	0.012	1985	52	0.010	1588	0.008	1323						
			300	0.1	0.006	1988	54	0.005	1590	0.004	1325						
			100	-	0.002	1990	52	0.002	1592	0.001	1327						
3600(D)	60	60	2500	0.7	0.049	1917	43	0.039	1534	0.033	1278	202	1025	1823	1500	2160	
			1750	0.5	0.036	2054	44	0.029	1643	0.024	1369						
			1160	0.3	0.023	2070	47	0.018	1656	0.015	1380						
			870	0.2	0.016	2083	49	0.013	1666	0.011	1389						
			600	0.2	0.011	2096	51	0.009	1677	0.007	1397						
			300	0.1	0.005	2110	52	0.004	1688	0.003	1407						
			100	-	0.002	2112	51	0.002	1690	0.001	1408						
4150(D)	83	50	2500	0.6	0.057	1974	34	0.046	1579	0.038	1316	200	1025	1823	1500	2160	
			1750	0.4	0.036	1979	38	0.029	1583	0.024	1319						
			1160	0.3	0.022	1983	42	0.018	1586	0.015	1322						
			870	0.2	0.016	1985	44	0.013	1588	0.011	1323						
			600	0.1	0.01	1987	46	0.008	1590	0.007	1325						
			300	0.1	0.005	1989	49	0.004	1591	0.003	1326						
			100	-	0.002	1990	47	0.002	1592	0.001	1327						

1. Exact ratio.
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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.
 6. Overhung load and thrust load ratings are computed independent of each other. For combined load applications, contact Winsmith.

Ratings





DOUBLE REDUCTION

With Mobil Glygoyle 460 Lubricant

REDUCER SIZE

E26

CENTER DISTANCE DOUBLE WORM HELICAL WORM		PRIMARY 1.750 2.060	SECONDARY 2.625 2.625	HORSEPOWER AND TORQUE RATINGS								OVERHUNG LOAD CAPACITIES (lb)			THRUST LOAD CAPACITIES (lb)	
OVERALL RATIO ¹	PRIMARY RATIO ¹	SECONDARY RATIO ¹	INPUT RPM ²	OUTPUT RPM	MECHANICAL							ALL SHAFT INPUT MODELS	INPUT SHAFT		OUTPUT SHAFT ^{5,6}	
					1.00 SERVICE FACTOR	1.25 SERVICE FACTOR	1.50 SERVICE FACTOR	SOLID ³ SHAFT (e.g. MDND)	HOLLOW ⁴ SHAFT (e.g. MDSD)	SOLID SHAFT (e.g. MDND)	HOLLOW SHAFT (e.g. MDSD)					
			INPUT HP	OUTPUT TORQUE (lbf-in.)	EFF	INPUT HP	OUTPUT TORQUE (lbf-in.)	INPUT HP	OUTPUT TORQUE (lbf-in.)							
5000(D)	100	50	2500	0.5	0.054	1978	29	0.043	1582	0.036	1319	125	1025	1823	1500	2160
			1750	0.4	0.034	1982	32	0.027	1586	0.023	1321					
			1160	0.2	0.02	1985	36	0.016	1588	0.013	1323					
			870	0.2	0.014	1986	38	0.011	1589	0.009	1324					
			600	0.1	0.009	1987	40	0.007	1590	0.006	1325					
			300	0.1	0.004	1989	44	0.003	1591	0.003	1326					
			100	–	0.001	1990	44	0.001	1592	0.001	1327					
6000(D)	100	60	2500	0.4	0.048	2056	28	0.038	1645	0.032	1371	125	1025	1823	1500	2160
			1750	0.3	0.031	2081	31	0.025	1665	0.021	1387					
			1160	0.2	0.018	2095	35	0.014	1676	0.012	1397					
			870	0.1	0.013	2097	37	0.010	1678	0.009	1398					
			600	0.1	0.008	2099	39	0.006	1679	0.005	1399					
			300	0.1	0.004	2111	43	0.003	1689	0.003	1407					
			100	–	0.001	2112	43	0.001	1690	0.001	1408					
8000(D)	100	80	2500	0.3	0.026	1395	26	0.021	1116	0.017	930	125	1025	1823	1500	2160
			1750	0.2	0.017	1395	29	0.014	1116	0.011	930					
			1160	0.1	0.01	1395	32	0.008	1116	0.007	930					
			870	0.1	0.007	1395	34	0.006	1116	0.005	930					
			600	0.1	0.005	1395	36	0.004	1116	0.003	930					
			300	–	0.002	1395	40	0.002	1116	0.001	930					
			100	–	0.001	1395	40	0.001	1116	0.001	930					
10000(D)	100	100	2500	0.3	0.018	1143	25	0.014	914	0.012	762	125	1025	1823	1500	2160
			1750	0.2	0.011	1145	28	0.009	916	0.007	763					
			1160	0.1	0.007	1147	30	0.006	918	0.005	765					
			870	0.1	0.005	1148	32	0.004	918	0.003	765					
			600	0.1	0.003	1148	34	0.002	918	0.002	765					
			300	–	0.001	1149	37	0.001	919	0.001	766					
			100	–	0.001	1150	36	0.001	920	0.001	767					

1. Exact ratio.
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Ratings



2D DRAWINGS & 3D MODELS
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DOUBLE REDUCTION

With Mobil Glygoyle 460 Lubricant



CENTER DISTANCE DOUBLE WORM HELICAL WORM		PRIMARY 2.000 2.060	SECONDARY 3.000 3.000	HORSEPOWER AND TORQUE RATINGS								OVERHUNG LOAD CAPACITIES (lb)			THRUST LOAD CAPACITIES (lb)		
OVERALL RATIO ¹	PRIMARY RATIO ¹	SECONDARY RATIO ¹	INPUT RPM ²	OUTPUT RPM	MECHANICAL								ALL SHAFT INPUT MODELS	OUTPUT SHAFT ^{5,6}		OUTPUT SHAFT ⁶	
					1.00 SERVICE FACTOR		1.25 SERVICE FACTOR		1.50 SERVICE FACTOR		SOLID ³ SHAFT (e.g. MDND)	HOLLOW ⁴ SHAFT (e.g. MDSD)		SOLID SHAFT (e.g. MDND)	HOLLOW SHAFT (e.g. MDSD)		
					INPUT HP	OUTPUT TORQUE (lbf-in.)	EFF	INPUT HP	OUTPUT TORQUE (lbf-in.)	INPUT HP						OUTPUT TORQUE (lbf-in.)	
25.3(H)	5.07	5	2500	98.6	4.086	2473	95	3.269	1978	2.724	1649	250	1116	1175	1137	1856	
			1750	69.0	3.206	2751	94	2.565	2201	2.137	1834						
			1160	45.8	2.208	2805	92	1.766	2244	1.472	1870						
			870	34.3	1.698	2815	90	1.358	2252	1.132	1877						
			600	23.7	1.166	2765	89	0.933	2212	0.777	1843						
			300	11.8	0.612	2859	88	0.490	2287	0.408	1906						
			100	3.9	0.216	2978	86	0.173	2382	0.144	1985						
30.4(H)	6.08	5	2500	82.2	3.534	2556	94	2.827	2045	2.356	1704	250	1116	1175	1137	1856	
			1750	57.6	2.656	2713	93	2.125	2170	1.771	1809						
			1160	38.2	1.831	2755	91	1.465	2204	1.221	1837						
			870	28.6	1.39	2737	89	1.112	2190	0.927	1825						
			600	19.7	0.983	2784	89	0.786	2227	0.655	1856						
			300	9.9	0.499	2787	88	0.399	2230	0.333	1858						
			100	3.3	0.17	2800	86	0.136	2240	0.113	1867						
38.0(H)	5.07	7.5	2500	65.7	4.116	3745	95	3.293	2996	2.744	2497	250	1190	1260	1301	2146	
			1750	46.0	3.103	3993	94	2.482	3194	2.069	2662						
			1160	30.5	2.208	4196	92	1.766	3357	1.472	2797						
			870	22.9	1.693	4180	90	1.354	3344	1.129	2787						
			600	15.8	1.158	4076	88	0.926	3261	0.772	2717						
			300	7.9	0.583	4049	87	0.466	3239	0.389	2699						
			100	2.6	0.199	4067	85	0.159	3254	0.133	2711						
50(D)	5	10	2500	50.0	2.479	2790	89	1.983	2232	1.653	1860	303	1298	1368	1434	2365	
			1750	35.0	1.873	3017	89	1.498	2414	1.249	2011						
			1160	23.2	1.267	3022	88	1.014	2418	0.845	2015						
			870	17.4	0.986	3086	86	0.789	2469	0.657	2057						
			600	12.0	0.696	3147	86	0.557	2518	0.464	2098						
			300	6.0	0.36	3216	85	0.288	2573	0.240	2144						
			100	2.0	0.129	3262	80	0.103	2610	0.086	2175						
50.7(H)	5.07	10	2500	49.3	2.341	2800	94	1.873	2240	1.561	1867	250	1298	1368	1434	2365	
			1750	34.5	1.792	3024	93	1.434	2419	1.195	2016						
			1160	22.9	1.223	3026	90	0.978	2421	0.815	2017						
			870	17.2	0.955	3089	88	0.764	2471	0.637	2059						
			600	11.8	0.677	3149	87	0.542	2519	0.451	2099						
			300	5.9	0.35	3216	86	0.280	2573	0.233	2144						
			100	2.0	0.121	3263	84	0.097	2610	0.081	2175						
60.8(H)	6.08	10	2500	41.1	2.048	2922	93	1.638	2338	1.365	1948	250	1298	1368	1434	2365	
			1750	28.8	1.479	2962	92	1.183	2370	0.986	1975						
			1160	19.1	1.052	3067	88	0.842	2454	0.701	2045						
			870	14.3	0.808	3121	88	0.646	2497	0.539	2081						
			600	9.9	0.57	3171	87	0.456	2537	0.380	2114						
			300	4.9	0.294	3228	86	0.235	2582	0.196	2152						
			100	1.6	0.101	3266	84	0.081	2613	0.067	2177						

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Ratings





DOUBLE REDUCTION

With Mobil Glygoyle 460 Lubricant

REDUCER SIZE

E30

CENTER DISTANCE DOUBLE WORM HELICAL WORM		PRIMARY 2.000 2.060	SECONDARY 3.000 3.000	HORSEPOWER AND TORQUE RATINGS								OVERHUNG LOAD CAPACITIES (lb)			THRUST LOAD CAPACITIES (lb)		
OVERALL RATIO ¹	PRIMARY RATIO ¹	SECONDARY RATIO ¹	INPUT RPM ²	OUTPUT RPM	MECHANICAL								ALL SHAFT INPUT MODELS	OUTPUT SHAFT ^{5,6}		OUTPUT SHAFT ⁶	
					1.00 SERVICE FACTOR			1.25 SERVICE FACTOR			1.50 SERVICE FACTOR			SOLID ³ SHAFT (e.g. MDND)	HOLLOW ⁴ SHAFT (e.g. MDSD)	SOLID SHAFT (e.g. MDND)	HOLLOW SHAFT (e.g. MDSD)
					INPUT HP	OUTPUT TORQUE (lbf-in.)	EFF	INPUT HP	OUTPUT TORQUE (lbf-in.)	INPUT HP	OUTPUT TORQUE (lbf-in.)						
75(D)	5	15	2500	33.3	1.768	2952	88	1.414	2362	1.179	1968	303	1350	1583	1724	2711	
			1750	23.3	1.301	3111	88	1.041	2489	0.867	2074						
			1160	15.5	0.916	3241	87	0.733	2593	0.611	2161						
			870	11.6	0.722	3308	84	0.578	2646	0.481	2205						
			600	8.0	0.516	3371	83	0.413	2697	0.344	2247						
			300	4.0	0.268	3442	82	0.214	2754	0.179	2295						
			100	1.3	0.097	3490	76	0.078	2792	0.065	2327						
76.0(H)	5.07	15	2500	32.9	1.667	2960	93	1.334	2368	1.111	1973	250	1350	1583	1724	2711	
			1750	23.0	1.244	3116	92	0.995	2493	0.829	2077						
			1160	15.3	0.884	3245	89	0.707	2596	0.589	2163						
			870	11.4	0.7	3310	86	0.560	2648	0.467	2207						
			600	7.9	0.503	3372	84	0.402	2698	0.335	2248						
			300	3.9	0.261	3443	83	0.209	2754	0.174	2295						
			100	1.3	0.091	3490	81	0.073	2792	0.061	2327						
91.1(H)	6.08	15	2500	27.4	1.438	3045	92	1.150	2436	0.959	2030	250	1350	1583	1724	2711	
			1750	19.2	1.069	3179	91	0.855	2543	0.713	2119						
			1160	12.7	0.762	3288	87	0.610	2630	0.508	2192						
			870	9.5	0.599	3343	84	0.479	2674	0.399	2229						
			600	6.6	0.424	3396	84	0.339	2717	0.283	2264						
			300	3.3	0.219	3455	82	0.175	2764	0.146	2303						
			100	1.1	0.076	3490	80	0.061	2792	0.051	2327						
100(D)	5	20	2500	25.0	1.328	2923	87	1.062	2338	0.885	1949	303	1350	1750	1966	2800	
			1750	17.5	0.974	3067	87	0.779	2454	0.649	2045						
			1160	11.6	0.685	3185	86	0.548	2548	0.457	2123						
			870	8.7	0.54	3244	83	0.432	2595	0.360	2163						
			600	6.0	0.39	3301	81	0.312	2641	0.260	2201						
			300	3.0	0.202	3365	79	0.162	2692	0.135	2243						
			100	1.0	0.073	3408	74	0.058	2726	0.049	2272						
101.3(H)	5.07	20	2500	24.7	1.252	2929	92	1.002	2343	0.835	1953	250	1350	1750	1966	2800	
			1750	17.3	0.931	3071	90	0.745	2457	0.621	2047						
			1160	11.4	0.661	3188	88	0.529	2550	0.441	2125						
			870	8.6	0.525	3247	84	0.420	2598	0.350	2165						
			600	5.9	0.379	3303	82	0.303	2642	0.253	2202						
			300	3.0	0.197	3366	80	0.158	2693	0.131	2244						
			100	1.0	0.068	3409	78	0.054	2727	0.045	2273						
121.5(H)	6.08	20	2500	20.6	1.077	3007	91	0.862	2406	0.718	2005	250	1350	1750	1966	2800	
			1750	14.4	0.799	3128	89	0.639	2502	0.533	2085						
			1160	9.5	0.57	3227	86	0.456	2582	0.380	2151						
			870	7.2	0.452	3277	82	0.362	2622	0.301	2185						
			600	4.9	0.32	3323	81	0.256	2658	0.213	2215						
			300	2.5	0.165	3376	80	0.132	2701	0.110	2251						
			100	0.8	0.057	3412	78	0.046	2730	0.038	2275						

Ratings

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2D DRAWINGS & 3D MODELS
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DOUBLE REDUCTION

With Mobil Glygoyle 460 Lubricant



CENTER DISTANCE DOUBLE WORM HELICAL WORM		PRIMARY 2.000 2.060	SECONDARY 3.000 3.000	HORSEPOWER AND TORQUE RATINGS								OVERHUNG LOAD CAPACITIES (lb)			THRUST LOAD CAPACITIES (lb)		
OVERALL RATIO ¹	PRIMARY RATIO ¹	SECONDARY RATIO ¹	INPUT RPM ²	OUTPUT RPM	MECHANICAL								INPUT SHAFT ALL SHAFT INPUT MODELS	OUTPUT SHAFT ^{5,6}		OUTPUT SHAFT ⁶	
					1.00 SERVICE FACTOR		1.25 SERVICE FACTOR		1.50 SERVICE FACTOR		SOLID ³ SHAFT (e.g. MDND)	HOLLOW ⁴ SHAFT (e.g. MDSD)		SOLID SHAFT (e.g. MDND)	HOLLOW SHAFT (e.g. MDSD)		
					INPUT HP	OUTPUT TORQUE (lb-ft-in.)	EFF	INPUT HP	OUTPUT TORQUE (lb-ft-in.)	INPUT HP						OUTPUT TORQUE (lb-ft-in.)	
150(D)	10	15	2500	16.7	1.019	3221	84	0.815	2577	0.679	2147	219	1350	1583	1724	2711	
			1750	11.7	0.75	3307	82	0.600	2646	0.500	2205						
			1160	7.7	0.513	3375	81	0.410	2700	0.342	2250						
			870	5.8	0.39	3409	80	0.312	2727	0.260	2273						
			600	4.0	0.274	3442	80	0.219	2754	0.183	2295						
			300	2.0	0.141	3478	78	0.113	2782	0.094	2319						
			100	0.7	0.051	3490	72	0.041	2792	0.034	2327						
152.0(H)	5.07	30	2500	16.4	0.889	3044	89	0.711	2435	0.593	2029	250	1350	2020	2400	2800	
			1750	11.5	0.663	3201	88	0.530	2561	0.442	2134						
			1160	7.6	0.473	3329	85	0.378	2663	0.315	2219						
			870	5.7	0.378	3394	82	0.302	2715	0.252	2263						
			600	3.9	0.285	3456	76	0.228	2765	0.190	2304						
			300	2.0	0.149	3526	74	0.119	2821	0.099	2351						
			100	0.7	0.052	3573	72	0.042	2858	0.035	2382						
182.3(H)	6.08	30	2500	13.7	0.766	3130	89	0.613	2504	0.511	2087	250	1350	2020	2400	2800	
			1750	9.6	0.57	3263	87	0.456	2610	0.380	2175						
			1160	6.4	0.41	3372	83	0.328	2698	0.273	2248						
			870	4.8	0.331	3427	79	0.265	2742	0.221	2285						
			600	3.3	0.239	3479	76	0.191	2783	0.159	2319						
			300	1.6	0.125	3538	74	0.100	2830	0.083	2359						
			100	0.5	0.044	3577	71	0.035	2862	0.029	2385						
200(D)	10	20	2500	12.5	0.761	3166	82	0.609	2533	0.507	2111	219	1350	1750	1966	2800	
			1750	8.8	0.561	3243	80	0.449	2594	0.374	2162						
			1160	5.8	0.387	3305	79	0.310	2644	0.258	2203						
			870	4.4	0.295	3336	78	0.236	2669	0.197	2224						
			600	3.0	0.206	3365	78	0.165	2692	0.137	2243						
			300	1.5	0.106	3397	76	0.085	2718	0.071	2265						
			100	0.5	0.039	3419	70	0.031	2735	0.026	2279						
202.6(H)	5.07	40	2500	12.3	0.682	3051	88	0.546	2441	0.455	2034	250	1350	2220	2400	2800	
			1750	8.6	0.529	3347	87	0.423	2678	0.353	2231						
			1160	5.7	0.348	3182	83	0.278	2546	0.232	2121						
			870	4.3	0.279	3249	79	0.223	2599	0.186	2166						
			600	3.0	0.214	3312	73	0.171	2650	0.143	2208						
			300	1.5	0.11	3344	71	0.088	2675	0.073	2229						
			100	0.5	0.039	3386	69	0.031	2709	0.026	2257						
253.3(H)	5.07	50	2500	9.9	0.545	2985	86	0.436	2388	0.363	1990	250	1350	2350	2400	2800	
			1750	6.9	0.418	3241	85	0.334	2593	0.279	2161						
			1160	4.6	0.272	3036	81	0.218	2429	0.181	2024						
			870	3.4	0.221	3131	77	0.177	2505	0.147	2087						
			600	2.4	0.172	3214	70	0.138	2571	0.115	2143						
			300	1.2	0.086	3136	69	0.069	2509	0.057	2091						
			100	0.4	0.03	3173	66	0.024	2538	0.020	2115						

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Ratings





DOUBLE REDUCTION

With Mobil Glygoyle 460 Lubricant

REDUCER SIZE

E30

CENTER DISTANCE DOUBLE WORM HELICAL WORM		PRIMARY 2.000 2.060	SECONDARY 3.000 3.000	HORSEPOWER AND TORQUE RATINGS								OVERHUNG LOAD CAPACITIES (lb)			THRUST LOAD CAPACITIES (lb)		
OVERALL RATIO ¹	PRIMARY RATIO ¹	SECONDARY RATIO ¹	INPUT RPM ²	OUTPUT RPM	MECHANICAL								ALL SHAFT INPUT MODELS	OUTPUT SHAFT ^{5,6}		OUTPUT SHAFT ⁶	
					1.00 SERVICE FACTOR		1.25 SERVICE FACTOR		1.50 SERVICE FACTOR		SOLID ³ SHAFT (e.g. MDND)	HOLLOW ⁴ SHAFT (e.g. MDSD)		SOLID SHAFT (e.g. MDND)	HOLLOW SHAFT (e.g. MDSD)		
					INPUT HP	OUTPUT TORQUE (lbf-in.)	EFF	INPUT HP	OUTPUT TORQUE (lbf-in.)	INPUT HP						OUTPUT TORQUE (lbf-in.)	
300(D)	20	15	2500	8.3	0.6	3365	74	0.480	2692	0.400	2243	236	1350	1583	1724	2711	
			1750	5.8	0.418	3409	75	0.334	2727	0.279	2273						
			1160	3.9	0.277	3444	76	0.222	2755	0.185	2296						
			870	2.9	0.209	3462	76	0.167	2770	0.139	2308						
			600	2.0	0.145	3478	76	0.116	2782	0.097	2319						
			300	1.0	0.074	3490	75	0.059	2792	0.049	2327						
			100	0.3	0.027	3490	69	0.022	2792	0.018	2327						
303.8(H)	6.08	50	2500	8.2	0.477	3127	86	0.382	2502	0.318	2085	250	1350	2350	2400	2800	
			1750	5.8	0.323	2940	83	0.258	2352	0.215	1960						
			1160	3.8	0.238	3099	79	0.190	2479	0.159	2066						
			870	2.9	0.196	3180	74	0.157	2544	0.131	2120						
			600	2.0	0.137	3100	71	0.110	2480	0.091	2067						
			300	1.0	0.072	3146	68	0.058	2517	0.048	2097						
			100	0.3	0.025	3176	66	0.020	2541	0.017	2117						
364.6(H)	6.08	60	2500	6.9	0.346	2627	83	0.277	2102	0.231	1751	250	1350	2350	2400	2800	
			1750	4.8	0.256	2721	81	0.205	2177	0.171	1814						
			1160	3.2	0.185	2797	76	0.148	2238	0.123	1865						
			870	2.4	0.149	2798	71	0.119	2238	0.099	1865						
			600	1.6	0.107	2798	68	0.086	2238	0.071	1865						
			300	0.8	0.055	2798	66	0.044	2238	0.037	1865						
			100	0.3	0.021	3124	64	0.017	2499	0.014	2083						
500(D)	25	20	2500	5.0	0.377	3322	70	0.302	2658	0.251	2215	220	1350	1750	1966	2800	
			1750	3.5	0.261	3354	71	0.209	2683	0.174	2236						
			1160	2.3	0.172	3380	72	0.138	2704	0.115	2253						
			870	1.7	0.129	3392	72	0.103	2714	0.086	2261						
			600	1.2	0.09	3404	72	0.072	2723	0.060	2269						
			300	0.6	0.046	3417	71	0.037	2734	0.031	2278						
			100	0.2	0.017	3426	65	0.014	2741	0.011	2284						
750(D)	25	30	2500	3.3	0.284	3478	65	0.227	2782	0.189	2319	220	1350	2020	2400	2800	
			1750	2.3	0.197	3513	66	0.158	2810	0.131	2342						
			1160	1.5	0.13	3541	67	0.104	2833	0.087	2361						
			870	1.2	0.098	3555	67	0.078	2844	0.065	2370						
			600	0.8	0.069	3568	66	0.055	2854	0.046	2379						
			300	0.4	0.035	3583	65	0.028	2866	0.023	2389						
			100	0.1	0.013	3592	60	0.010	2874	0.009	2395						
1000(D)	50	20	2500	2.5	0.218	3376	61	0.174	2701	0.145	2251	224	1350	1750	1966	2800	
			1750	1.8	0.148	3392	64	0.118	2714	0.099	2261						
			1160	1.2	0.096	3405	66	0.077	2724	0.064	2270						
			870	0.9	0.072	3411	66	0.058	2729	0.048	2274						
			600	0.6	0.049	3417	66	0.039	2734	0.033	2278						
			300	0.3	0.025	3424	66	0.020	2739	0.017	2283						
			100	0.1	0.009	3428	61	0.007	2742	0.006	2285						

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.

Ratings



2D DRAWINGS & 3D MODELS
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DOUBLE REDUCTION

With Mobil Glygoyle 460 Lubricant



CENTER DISTANCE DOUBLE WORM HELICAL WORM		PRIMARY 2.000 2.060	SECONDARY 3.000 3.000	HORSEPOWER AND TORQUE RATINGS								OVERHUNG LOAD CAPACITIES (lb)			THRUST LOAD CAPACITIES (lb)		
OVERALL RATIO ¹	PRIMARY RATIO ¹	SECONDARY RATIO ¹	INPUT RPM ²	OUTPUT RPM	MECHANICAL								ALL SHAFT INPUT MODELS	OUTPUT SHAFT ^{5,6}		OUTPUT SHAFT ⁶	
					1.00 SERVICE FACTOR		1.25 SERVICE FACTOR		1.50 SERVICE FACTOR		SOLID ³ SHAFT (e.g. MDND)	HOLLOW ⁴ SHAFT (e.g. MDSD)		SOLID SHAFT (e.g. MDND)	HOLLOW SHAFT (e.g. MDSD)		
					INPUT HP	OUTPUT TORQUE (lbf-in.)	EFF	INPUT HP	OUTPUT TORQUE (lbf-in.)	INPUT HP						OUTPUT TORQUE (lbf-in.)	
1500(D)	50	30	2500	1.7	0.163	3537	57	0.130	2830	0.109	2358	224	1350	2020	2400	2800	
			1750	1.2	0.113	3555	58	0.090	2844	0.075	2370						
			1160	0.8	0.076	3569	57	0.061	2855	0.051	2379						
			870	0.6	0.057	3576	58	0.046	2861	0.038	2384						
			600	0.4	0.04	3583	57	0.032	2866	0.027	2389						
			300	0.2	0.021	3590	55	0.017	2872	0.014	2393						
			100	0.1	0.007	3595	53	0.006	2876	0.005	2397						
2000(D)	50	40	2500	1.3	0.123	3354	54	0.098	2683	0.082	2236	224	1350	2220	2400	2800	
			1750	0.9	0.083	3369	56	0.066	2695	0.055	2246						
			1160	0.6	0.054	3382	58	0.043	2706	0.036	2255						
			870	0.4	0.041	3388	58	0.033	2710	0.027	2259						
			600	0.3	0.028	3394	58	0.022	2715	0.019	2263						
			300	0.2	0.014	3400	58	0.011	2720	0.009	2267						
			100	0.1	0.005	3404	53	0.004	2723	0.003	2269						
3000(D)	60	50	2500	0.8	0.084	3153	49	0.067	2522	0.056	2102	224	1350	2350	2400	2800	
			1750	0.6	0.059	3164	50	0.047	2531	0.039	2109						
			1160	0.4	0.038	3174	51	0.030	2539	0.025	2116						
			870	0.3	0.028	3178	51	0.022	2542	0.019	2119						
			600	0.2	0.019	3182	53	0.015	2546	0.013	2121						
			300	0.1	0.009	3187	53	0.007	2550	0.006	2125						
			100	-	0.003	3190	49	0.002	2552	0.002	2127						
3600(D)	60	60	2500	0.7	0.066	2889	48	0.053	2311	0.044	1926	224	1350	2350	2400	2800	
			1750	0.5	0.049	3080	48	0.039	2464	0.033	2053						
			1160	0.3	0.032	3121	49	0.026	2497	0.021	2081						
			870	0.2	0.024	3142	50	0.019	2514	0.016	2095						
			600	0.2	0.016	3146	51	0.013	2517	0.011	2097						
			300	0.1	0.008	3167	52	0.006	2534	0.005	2111						
			100	-	0.003	3171	48	0.002	2537	0.002	2114						
4100(D)	82	50	2500	0.6	0.082	3163	38	0.066	2530	0.055	2109	220	1350	2350	2400	2800	
			1750	0.4	0.054	3171	41	0.043	2537	0.036	2114						
			1160	0.3	0.033	3178	44	0.026	2542	0.022	2119						
			870	0.2	0.024	3182	46	0.019	2546	0.016	2121						
			600	0.1	0.016	3185	47	0.013	2548	0.011	2123						
			300	0.1	0.008	3188	49	0.006	2550	0.005	2125						
			100	-	0.003	3191	45	0.002	2553	0.002	2127						

1. Exact ratio.
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Ratings



DOUBLE REDUCTION

With Mobil Glygoyle 460 Lubricant

REDUCER SIZE

E30

CENTER DISTANCE DOUBLE WORM HELICAL WORM		PRIMARY 2.000 2.060	SECONDARY 3.000 3.000	HORSEPOWER AND TORQUE RATINGS								OVERHUNG LOAD CAPACITIES (lb)			THRUST LOAD CAPACITIES (lb)	
OVERALL RATIO ¹	PRIMARY RATIO ¹	SECONDARY RATIO ¹	INPUT RPM ²	OUTPUT RPM	MECHANICAL						ALL SHAFT INPUT MODELS	INPUT SHAFT		OUTPUT SHAFT ^{5,6}		
					1.00 SERVICE FACTOR		1.25 SERVICE FACTOR		1.50 SERVICE FACTOR			SOLID ³ SHAFT (e.g. MDND)	HOLLOW ⁴ SHAFT (e.g. MDSD)	SOLID SHAFT (e.g. MDND)	HOLLOW SHAFT (e.g. MDSD)	
					INPUT HP	OUTPUT TORQUE (lbf-in.)	EFF	INPUT HP	OUTPUT TORQUE (lbf-in.)	INPUT HP	OUTPUT TORQUE (lbf-in.)					
4950(D)	99	50	2500	0.5	0.077	3168	32	0.062	2534	0.051	2112	220	1350	2350	2400	2800
			1750	0.4	0.05	3175	36	0.040	2540	0.033	2117					
			1160	0.2	0.03	3181	39	0.024	2545	0.020	2121					
			870	0.2	0.022	3184	40	0.018	2547	0.015	2123					
			600	0.1	0.014	3186	42	0.011	2549	0.009	2124					
			300	0.1	0.007	3189	45	0.006	2551	0.005	2126					
			100	-	0.002	3191	42	0.002	2553	0.001	2127					
5940(D)	99	60	2500	0.4	0.065	3100	31	0.052	2480	0.043	2067	220	1350	2350	2400	2800
			1750	0.3	0.042	3123	34	0.034	2498	0.028	2082					
			1160	0.2	0.026	3145	37	0.021	2516	0.017	2097					
			870	0.1	0.018	3148	39	0.014	2518	0.012	2099					
			600	0.1	0.012	3166	41	0.010	2533	0.008	2111					
			300	0.1	0.006	3170	43	0.005	2536	0.004	2113					
			100	-	0.002	3172	40	0.002	2538	0.001	2115					
7920(D)	99	80	2500	0.3	0.034	2050	30	0.027	1640	0.023	1367	220	1350	2350	2400	2800
			1750	0.2	0.022	2050	32	0.018	1640	0.015	1367					
			1160	0.1	0.013	2050	35	0.010	1640	0.009	1367					
			870	0.1	0.01	2050	37	0.008	1640	0.007	1367					
			600	0.1	0.006	2050	39	0.005	1640	0.004	1367					
			300	-	0.003	2050	41	0.002	1640	0.002	1367					
			100	-	0.001	2050	38	0.001	1640	0.001	1367					
9900(D)	99	100	2500	0.3	0.024	1696	28	0.019	1357	0.016	1131	220	1350	2350	2400	2800
			1750	0.2	0.015	1696	31	0.012	1357	0.010	1131					
			1160	0.1	0.009	1696	34	0.007	1357	0.006	1131					
			870	0.1	0.007	1696	35	0.006	1357	0.005	1131					
			600	0.1	0.004	1696	37	0.003	1357	0.003	1131					
			300	-	0.002	1696	39	0.002	1357	0.001	1131					
			100	-	0.001	1696	37	0.001	1357	0.001	1131					

1. Exact ratio.
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Ratings



2D DRAWINGS & 3D MODELS
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DOUBLE REDUCTION

With Mobil Glygoyle 460 Lubricant



CENTER DISTANCE DOUBLE WORM HELICAL WORM		PRIMARY 2.000 2.060	SECONDARY 3.500 3.500	HORSEPOWER AND TORQUE RATINGS								OVERHUNG LOAD CAPACITIES (lb)			THRUST LOAD CAPACITIES (lb)		
OVERALL RATIO ¹	PRIMARY RATIO ¹	SECONDARY RATIO ¹	INPUT RPM ²	OUTPUT RPM	MECHANICAL								INPUT SHAFT ALL SHAFT INPUT MODELS	OUTPUT SHAFT ^{5,6}		OUTPUT SHAFT ⁶	
					1.00 SERVICE FACTOR		1.25 SERVICE FACTOR		1.50 SERVICE FACTOR		SOLID ³ SHAFT (e.g. MDND)	HOLLOW ⁴ SHAFT (e.g. MDSD)		SOLID SHAFT (e.g. MDND)	HOLLOW SHAFT (e.g. MDSD)		
					INPUT HP	OUTPUT TORQUE (lb-ft-in.)	EFF	INPUT HP	OUTPUT TORQUE (lb-ft-in.)	INPUT HP						OUTPUT TORQUE (lb-ft-in.)	
25.3(H)	5.07	5	2500	98.6	2.825	1672	93	2.260	1338	1.883	1115	250	1720	1447	1744	2246	
			1750	69.0	3.207	2728	93	2.566	2182	2.138	1819						
			1160	45.8	2.208	2807	92	1.766	2246	1.472	1871						
			870	34.3	1.696	2844	91	1.357	2275	1.131	1896						
			600	23.7	1.207	2878	90	0.966	2302	0.805	1919						
			300	11.8	0.624	2929	88	0.499	2343	0.416	1953						
			100	3.9	0.216	2990	87	0.173	2392	0.144	1993						
30.4(H)	6.08	5	2500	82.2	3.681	2636	93	2.945	2109	2.454	1757	250	1720	1447	1744	2246	
			1750	57.6	2.659	2702	93	2.127	2162	1.773	1801						
			1160	38.2	1.835	2779	92	1.468	2223	1.223	1853						
			870	28.6	1.405	2800	91	1.124	2240	0.937	1867						
			600	19.7	0.999	2860	90	0.799	2288	0.666	1907						
			300	9.9	0.518	2906	88	0.414	2325	0.345	1937						
			100	3.3	0.177	2920	86	0.142	2336	0.118	1947						
38.0(H)	5.07	7.5	2500	65.7	4.288	3858	94	3.430	3086	2.859	2572	250	1882	1582	1997	2612	
			1750	46.0	3.209	4100	93	2.567	3280	2.139	2733						
			1160	30.5	2.214	4218	92	1.771	3374	1.476	2812						
			870	22.9	1.699	4260	91	1.359	3408	1.133	2840						
			600	15.8	1.206	4276	89	0.965	3421	0.804	2851						
			300	7.9	0.621	4331	87	0.497	3465	0.414	2887						
			100	2.6	0.215	4402	86	0.172	3522	0.143	2935						
50(D)	5	10	2500	50.0	3.507	3907	88	2.806	3126	2.338	2605	303	2064	1734	2200	2903	
			1750	35.0	3.109	4992	89	2.487	3994	2.073	3328						
			1160	23.2	2.12	5104	89	1.696	4083	1.413	3403						
			870	17.4	1.74	5526	88	1.392	4421	1.160	3684						
			600	12.0	1.29	5807	86	1.032	4646	0.860	3871						
			300	6.0	0.62	5497	84	0.496	4398	0.413	3665						
			100	2.0	0.224	5601	79	0.179	4481	0.149	3734						
50.7(H)	5.07	10	2500	49.3	3.799	4510	93	3.039	3608	2.533	3007	250	2064	1734	2200	2903	
			1750	34.5	3.215	5419	92	2.572	4335	2.143	3613						
			1160	22.9	2.067	5168	91	1.654	4134	1.378	3445						
			870	17.2	1.689	5538	89	1.351	4430	1.126	3692						
			600	11.8	1.2	5552	87	0.960	4442	0.800	3701						
			300	5.9	0.603	5499	86	0.482	4399	0.402	3666						
			100	2.0	0.209	5588	84	0.167	4470	0.139	3725						
60.8(H)	6.08	10	2500	41.1	3.374	4788	93	2.699	3830	2.249	3192	250	2064	1734	2200	2903	
			1750	28.8	2.243	4494	92	1.794	3595	1.495	2996						
			1160	19.1	1.8	5346	90	1.440	4277	1.200	3564						
			870	14.3	1.407	5456	88	1.126	4365	0.938	3637						
			600	9.9	0.977	5398	87	0.782	4318	0.651	3599						
			300	4.9	0.505	5501	85	0.404	4401	0.337	3667						
			100	1.6	0.176	5611	83	0.141	4489	0.117	3741						

Ratings

1. Exact ratio.
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DOUBLE REDUCTION

With Mobil Glygoyle 460 Lubricant

REDUCER SIZE
E35

CENTER DISTANCE DOUBLE WORM HELICAL WORM		PRIMARY 2.000 2.060	SECONDARY 3.500 3.500	HORSEPOWER AND TORQUE RATINGS								OVERHUNG LOAD CAPACITIES (lb)			THRUST LOAD CAPACITIES (lb)		
OVERALL RATIO ¹	PRIMARY RATIO ¹	SECONDARY RATIO ¹	INPUT RPM ²	OUTPUT RPM	MECHANICAL								ALL SHAFT INPUT MODELS	OUTPUT SHAFT ^{5,6}		OUTPUT SHAFT ⁶	
					1.00 SERVICE FACTOR		1.25 SERVICE FACTOR		1.50 SERVICE FACTOR		SOLID ³ SHAFT (e.g. MDND)	HOLLOW ⁴ SHAFT (e.g. MDSD)		SOLID SHAFT (e.g. MDND)	HOLLOW SHAFT (e.g. MDSD)		
					INPUT HP	OUTPUT TORQUE (lbf-in.)	EFF	INPUT HP	OUTPUT TORQUE (lbf-in.)	INPUT HP						OUTPUT TORQUE (lbf-in.)	
75(D)	5	15	2500	33.3	3.864	6437	88	3.091	5150	2.576	4291	303	2130	1998	2624	3339	
			1750	23.3	2.883	6891	88	2.306	5513	1.922	4594						
			1160	15.5	2.032	7270	88	1.626	5816	1.355	4847						
			870	11.6	1.586	7464	87	1.269	5971	1.057	4976						
			600	8.0	1.157	7649	84	0.926	6119	0.771	5099						
			300	4.0	0.619	7861	81	0.495	6289	0.413	5241						
			100	1.3	0.225	8005	75	0.180	6404	0.150	5337						
76.0(H)	5.07	15	2500	32.9	3.648	6458	92	2.918	5166	2.432	4305	250	2130	1998	2624	3339	
			1750	23.0	2.756	6906	92	2.205	5525	1.837	4604						
			1160	15.3	1.96	7281	90	1.568	5825	1.307	4854						
			870	11.4	1.538	7472	88	1.230	5978	1.025	4981						
			600	7.9	1.127	7655	85	0.902	6124	0.751	5103						
			300	3.9	0.602	7864	82	0.482	6291	0.401	5243						
			100	1.3	0.21	8006	79	0.168	6405	0.140	5337						
91.1(H)	6.08	15	2500	27.4	3.17	6702	92	2.536	5362	2.113	4468	250	2130	1998	2624	3339	
			1750	19.2	2.374	7088	91	1.899	5670	1.583	4725						
			1160	12.7	1.682	7407	89	1.346	5926	1.121	4938						
			870	9.5	1.32	7570	87	1.056	6056	0.880	5047						
			600	6.6	0.947	7724	85	0.758	6179	0.631	5149						
			300	3.3	0.506	7899	81	0.405	6319	0.337	5266						
			100	1.1	0.176	8018	79	0.141	6414	0.117	5345						
100(D)	5	20	2500	25.0	2.762	6079	87	2.210	4863	1.841	4053	303	2130	2204	2973	3660	
			1750	17.5	2.123	6708	88	1.698	5366	1.415	4472						
			1160	11.6	1.326	6247	87	1.061	4998	0.884	4165						
			870	8.7	1.061	6563	85	0.849	5250	0.707	4375						
			600	6.0	0.793	6869	82	0.634	5495	0.529	4579						
			300	3.0	0.394	6499	78	0.315	5199	0.263	4333						
			100	1.0	0.143	6607	73	0.114	5286	0.095	4405						
101.3(H)	5.07	20	2500	24.7	2.611	6106	92	2.089	4885	1.741	4071	250	2130	2204	2973	3660	
			1750	17.3	2.032	6728	91	1.626	5382	1.355	4485						
			1160	11.4	1.281	6264	89	1.025	5011	0.854	4176						
			870	8.6	1.03	6577	87	0.824	5262	0.687	4385						
			600	5.9	0.773	6878	84	0.618	5502	0.515	4585						
			300	3.0	0.383	6502	80	0.306	5202	0.255	4335						
			100	1.0	0.134	6608	77	0.107	5286	0.089	4405						
121.5(H)	6.08	20	2500	20.6	2.306	6444	91	1.845	5155	1.537	4296	250	2130	2204	2973	3660	
			1750	14.4	1.514	5952	90	1.211	4762	1.009	3968						
			1160	9.5	1.117	6470	88	0.894	5176	0.745	4313						
			870	7.2	0.895	6737	86	0.716	5390	0.597	4491						
			600	4.9	0.6	6397	84	0.480	5118	0.400	4265						
			300	2.5	0.322	6528	79	0.258	5222	0.215	4352						
			100	0.8	0.112	6617	77	0.090	5294	0.075	4411						

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.
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DOUBLE REDUCTION

With Mobil Glygoyle 460 Lubricant



CENTER DISTANCE DOUBLE WORM HELICAL WORM		PRIMARY 2.000 2.060	SECONDARY 3.500 3.500	HORSEPOWER AND TORQUE RATINGS								OVERHUNG LOAD CAPACITIES (lb)			THRUST LOAD CAPACITIES (lb)		
OVERALL RATIO ¹	PRIMARY RATIO ¹	SECONDARY RATIO ¹	INPUT RPM ²	OUTPUT RPM	MECHANICAL								ALL SHAFT INPUT MODELS	OUTPUT SHAFT ^{5,6}		OUTPUT SHAFT ⁶	
					1.00 SERVICE FACTOR		1.25 SERVICE FACTOR		1.50 SERVICE FACTOR		SOLID ³ SHAFT (e.g. MDND)	HOLLOW ⁴ SHAFT (e.g. MDSD)		SOLID SHAFT (e.g. MDND)	HOLLOW SHAFT (e.g. MDSD)		
					INPUT HP	OUTPUT TORQUE (lbf-in.)	EFF	INPUT HP	OUTPUT TORQUE (lbf-in.)	INPUT HP						OUTPUT TORQUE (lbf-in.)	
150(D)	10	15	2500	16.7	2.262	7211	84	1.810	5769	1.508	4807	219	2130	1998	2624	3339	
			1750	11.7	1.647	7461	84	1.318	5969	1.098	4974						
			1160	7.7	1.153	7663	82	0.922	6130	0.769	5109						
			870	5.8	0.891	7765	80	0.713	6212	0.594	5177						
			600	4.0	0.632	7861	79	0.506	6289	0.421	5241						
			300	2.0	0.326	7968	78	0.261	6374	0.217	5312						
			100	0.7	0.12	8041	71	0.096	6433	0.080	5361						
152.0(H)	5.07	30	2500	16.4	1.934	6641	90	1.547	5313	1.289	4427	250	2130	2528	3520	4000	
			1750	11.5	1.461	7092	89	1.169	5674	0.974	4728						
			1160	7.6	0.995	7124	87	0.796	5699	0.663	4749						
			870	5.7	0.8	7464	85	0.640	5971	0.533	4976						
			600	3.9	0.602	7792	81	0.482	6234	0.401	5195						
			300	2.0	0.309	7477	76	0.247	5982	0.206	4985						
			100	0.7	0.113	7610	70	0.090	6088	0.075	5073						
182.3(H)	6.08	30	2500	13.7	1.679	6887	89	1.343	5510	1.119	4591	250	2130	2528	3520	4000	
			1750	9.6	1.177	6787	88	0.942	5430	0.785	4525						
			1160	6.4	0.867	7349	86	0.694	5879	0.578	4899						
			870	4.8	0.696	7638	83	0.557	6110	0.464	5092						
			600	3.3	0.473	7347	81	0.378	5878	0.315	4898						
			300	1.6	0.259	7510	76	0.207	6008	0.173	5007						
			100	0.5	0.092	7621	72	0.074	6097	0.061	5081						
200(D)	10	20	2500	12.5	1.465	6151	83	1.172	4921	0.977	4101	219	2130	2204	2973	3660	
			1750	8.8	1.101	6558	83	0.881	5246	0.734	4372						
			1160	5.8	0.792	6892	80	0.634	5514	0.528	4595						
			870	4.4	0.565	6428	78	0.452	5142	0.377	4285						
			600	3.0	0.402	6499	77	0.322	5199	0.268	4333						
			300	1.5	0.208	6580	75	0.166	5264	0.139	4387						
			100	0.5	0.077	6634	69	0.062	5307	0.051	4423						
202.6(H)	5.07	40	2500	12.3	1.414	6377	88	1.131	5102	0.943	4251	250	2130	2784	3520	4000	
			1750	8.6	1.062	6770	87	0.850	5416	0.708	4513						
			1160	5.7	0.735	6900	85	0.588	5520	0.490	4600						
			870	4.3	0.578	7045	83	0.462	5636	0.385	4697						
			600	3.0	0.418	7032	79	0.334	5626	0.279	4688						
			300	1.5	0.231	7221	74	0.185	5777	0.154	4814						
			100	0.5	0.084	7391	69	0.067	5913	0.056	4927						
253.3(H)	5.07	50	2500	9.9	0.942	5172	86	0.754	4138	0.628	3448	250	2130	3025	3520	4000	
			1750	6.9	0.67	5196	85	0.536	4157	0.447	3464						
			1160	4.6	0.456	5197	83	0.365	4158	0.304	3465						
			870	3.4	0.351	5187	81	0.281	4150	0.234	3458						
			600	2.4	0.255	5171	76	0.204	4137	0.170	3447						
			300	1.2	0.148	5574	71	0.118	4459	0.099	3716						
			100	0.4	0.061	6557	67	0.049	5246	0.041	4371						

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.

Ratings



DOUBLE REDUCTION

With Mobil Glygoyle 460 Lubricant

REDUCER SIZE

E35

CENTER DISTANCE DOUBLE WORM HELICAL WORM		PRIMARY 2.000 2.060	SECONDARY 3.500 3.500	HORSEPOWER AND TORQUE RATINGS								OVERHUNG LOAD CAPACITIES (lb)			THRUST LOAD CAPACITIES (lb)		
OVERALL RATIO ¹	PRIMARY RATIO ¹	SECONDARY RATIO ¹	INPUT RPM ²	OUTPUT RPM	MECHANICAL								ALL SHAFT INPUT MODELS	OUTPUT SHAFT ^{5,6}		OUTPUT SHAFT ⁶	
					1.00 SERVICE FACTOR		1.25 SERVICE FACTOR		1.50 SERVICE FACTOR		SOLID ³ SHAFT (e.g. MDND)	HOLLOW ⁴ SHAFT (e.g. MDSD)		SOLID SHAFT (e.g. MDND)	HOLLOW SHAFT (e.g. MDSD)		
					INPUT HP	OUTPUT TORQUE (lbf-in.)	EFF	INPUT HP	OUTPUT TORQUE (lbf-in.)	INPUT HP						OUTPUT TORQUE (lbf-in.)	
300(D)	20	15	2500	8.3	1.337	7632	75	1.070	6106	0.891	5088	247	2130	1998	2624	3339	
			1750	5.8	0.949	7763	76	0.759	6210	0.633	5175						
			1160	3.9	0.64	7868	75	0.512	6294	0.427	5245						
			870	2.9	0.484	7920	75	0.387	6336	0.323	5280						
			600	2.0	0.337	7968	75	0.270	6374	0.225	5312						
			300	1.0	0.173	8023	74	0.138	6418	0.115	5349						
			100	0.3	0.063	8059	68	0.050	6447	0.042	5373						
303.8(H)	6.08	50	2500	8.2	0.793	5198	86	0.634	4158	0.529	3465	250	2130	3025	3520	4000	
			1750	5.8	0.563	5181	84	0.450	4145	0.375	3454						
			1160	3.8	0.387	5199	81	0.310	4159	0.258	3466						
			870	2.9	0.299	5170	79	0.239	4136	0.199	3447						
			600	2.0	0.213	5188	76	0.170	4150	0.142	3459						
			300	1.0	0.127	5740	71	0.102	4592	0.085	3827						
			100	0.3	0.05	6599	69	0.040	5279	0.033	4399						
364.6(H)	6.08	60	2500	6.9	0.546	4149	83	0.437	3319	0.364	2766	250	2130	3186	3520	4000	
			1750	4.8	0.404	4339	82	0.323	3471	0.269	2893						
			1160	3.2	0.287	4495	79	0.230	3596	0.191	2997						
			870	2.4	0.227	4573	76	0.182	3658	0.151	3049						
			600	1.6	0.164	4648	74	0.131	3718	0.109	3099						
			300	0.8	0.09	4732	68	0.072	3786	0.060	3155						
			100	0.3	0.033	5030	67	0.026	4024	0.022	3353						
500(D)	25	20	2500	5.0	0.725	6394	70	0.580	5115	0.483	4263	220	2130	2204	2973	3660	
			1750	3.5	0.508	6473	71	0.406	5178	0.339	4315						
			1160	2.3	0.336	6536	72	0.269	5229	0.224	4357						
			870	1.7	0.253	6567	72	0.202	5254	0.169	4378						
			600	1.2	0.176	6596	71	0.141	5277	0.117	4397						
			300	0.6	0.09	6629	70	0.072	5303	0.060	4419						
			100	0.2	0.033	6650	64	0.026	5320	0.022	4433						
750(D)	25	30	2500	3.3	0.575	7343	68	0.460	5874	0.383	4895	220	2130	2528	3520	4000	
			1750	2.3	0.41	7442	67	0.328	5954	0.273	4961						
			1160	1.5	0.282	7520	65	0.226	6016	0.188	5013						
			870	1.2	0.213	7559	65	0.170	6047	0.142	5039						
			600	0.8	0.149	7595	65	0.119	6076	0.099	5063						
			300	0.4	0.076	7636	64	0.061	6109	0.051	5091						
			100	0.1	0.028	7663	59	0.022	6130	0.019	5109						
1000(D)	50	20	2500	2.5	0.426	6526	61	0.341	5221	0.284	4351	224	2130	2204	2973	3660	
			1750	1.8	0.289	6566	63	0.231	5253	0.193	4377						
			1160	1.2	0.187	6598	65	0.150	5278	0.125	4399						
			870	0.9	0.141	6614	65	0.113	5291	0.094	4409						
			600	0.6	0.097	6629	65	0.078	5303	0.065	4419						
			300	0.3	0.049	6645	65	0.039	5316	0.033	4430						
			100	0.1	0.018	6656	59	0.014	5325	0.012	4437						

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.



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DOUBLE REDUCTION

With Mobil Glygoyle 460 Lubricant



CENTER DISTANCE DOUBLE WORM HELICAL WORM		PRIMARY 2.000 2.060	SECONDARY 3.500 3.500	HORSEPOWER AND TORQUE RATINGS								OVERHUNG LOAD CAPACITIES (lb)			THRUST LOAD CAPACITIES (lb)		
OVERALL RATIO ¹	PRIMARY RATIO ¹	SECONDARY RATIO ¹	INPUT RPM ²	OUTPUT RPM	MECHANICAL								ALL SHAFT INPUT MODELS	OUTPUT SHAFT ^{5,6}		OUTPUT SHAFT ⁶	
					1.00 SERVICE FACTOR		1.25 SERVICE FACTOR		1.50 SERVICE FACTOR		SOLID ³ SHAFT (e.g. MDND)	HOLLOW ⁴ SHAFT (e.g. MDSD)		SOLID SHAFT (e.g. MDND)	HOLLOW SHAFT (e.g. MDSD)		
					INPUT HP	OUTPUT TORQUE (lbf-in.)	EFF	INPUT HP	OUTPUT TORQUE (lbf-in.)	INPUT HP						OUTPUT TORQUE (lbf-in.)	
1500(D)	50	30	2500	1.7	0.351	7508	57	0.281	6006	0.234	5005	224	2130	2528	3520	4000	
			1750	1.2	0.244	7558	57	0.195	6046	0.163	5039						
			1160	0.8	0.165	7598	56	0.132	6078	0.110	5065						
			870	0.6	0.123	7617	57	0.098	6094	0.082	5078						
			600	0.4	0.086	7636	56	0.069	6109	0.057	5091						
			300	0.2	0.045	7656	54	0.036	6125	0.030	5104						
			100	0.1	0.015	7670	53	0.012	6136	0.010	5113						
2000(D)	50	40	2500	1.3	0.269	7301	54	0.215	5841	0.179	4867	224	2130	2784	3520	4000	
			1750	0.9	0.184	7345	55	0.147	5876	0.123	4897						
			1160	0.6	0.12	7380	57	0.096	5904	0.080	4920						
			870	0.4	0.09	7398	57	0.072	5918	0.060	4932						
			600	0.3	0.061	7414	57	0.049	5931	0.041	4943						
			300	0.2	0.03	7432	58	0.024	5946	0.020	4955						
			100	0.1	0.011	7444	54	0.009	5955	0.007	4963						
3000(D)	60	50	2500	0.8	0.161	5935	49	0.129	4748	0.107	3957	224	2130	3025	3520	4000	
			1750	0.6	0.118	6305	50	0.094	5044	0.079	4203						
			1160	0.4	0.08	6558	50	0.064	5246	0.053	4372						
			870	0.3	0.059	6605	51	0.047	5284	0.039	4403						
			600	0.2	0.04	6685	53	0.032	5348	0.027	4457						
			300	0.1	0.02	6767	54	0.016	5414	0.013	4511						
			100	-	0.007	6811	51	0.006	5449	0.005	4541						
3600(D)	60	60	2500	0.7	0.11	4728	47	0.088	3782	0.073	3152	224	2130	3186	3520	4000	
			1750	0.5	0.08	4954	48	0.064	3963	0.053	3303						
			1160	0.3	0.053	5024	49	0.042	4019	0.035	3349						
			870	0.2	0.039	5034	50	0.031	4027	0.026	3356						
			600	0.2	0.026	5069	51	0.021	4055	0.017	3379						
			300	0.1	0.013	5105	52	0.010	4084	0.009	3403						
			100	-	0.005	5113	49	0.004	4090	0.003	3409						
4100(D)	82	50	2500	0.6	0.163	6237	38	0.130	4990	0.109	4158	220	2130	3025	3520	4000	
			1750	0.4	0.112	6518	40	0.090	5214	0.075	4345						
			1160	0.3	0.07	6605	44	0.056	5284	0.047	4403						
			870	0.2	0.051	6682	46	0.041	5346	0.034	4455						
			600	0.1	0.034	6725	48	0.027	5380	0.023	4483						
			300	0.1	0.016	6770	50	0.013	5416	0.011	4513						
			100	-	0.006	6812	47	0.005	5450	0.004	4541						

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.

Ratings





DOUBLE REDUCTION

With Mobil Glygoyle 460 Lubricant

REDUCER SIZE

E35

CENTER DISTANCE DOUBLE WORM HELICAL WORM		PRIMARY 2.000 2.060	SECONDARY 3.500 3.500	HORSEPOWER AND TORQUE RATINGS								OVERHUNG LOAD CAPACITIES (lb)			THRUST LOAD CAPACITIES (lb)		
OVERALL RATIO ¹	PRIMARY RATIO ¹	SECONDARY RATIO ¹	INPUT RPM ²	OUTPUT RPM	MECHANICAL								ALL SHAFT INPUT MODELS	SOLID ³ SHAFT (e.g. MDND)	HOLLOW ⁴ SHAFT (e.g. MDSD)	OUTPUT SHAFT ⁶	
					1.00 SERVICE FACTOR			1.25 SERVICE FACTOR			1.50 SERVICE FACTOR					SOLID SHAFT (e.g. MDND)	HOLLOW SHAFT (e.g. MDSD)
					INPUT HP	OUTPUT TORQUE (lbf-in.)	EFF	INPUT HP	OUTPUT TORQUE (lbf-in.)	INPUT HP	OUTPUT TORQUE (lbf-in.)						
4950(D)	99	50	2500	0.5	0.16	6477	32	0.128	5182	0.107	4318	220	2130	3025	3520	4000	
			1750	0.4	0.103	6563	35	0.082	5250	0.069	4375						
			1160	0.2	0.063	6647	39	0.050	5318	0.042	4431						
			870	0.2	0.045	6688	41	0.036	5350	0.030	4459						
			600	0.1	0.03	6730	43	0.024	5384	0.020	4487						
			300	0.1	0.014	6773	46	0.011	5418	0.009	4515						
			100	-	0.005	6813	43	0.004	5450	0.003	4542						
5940(D)	99	60	2500	0.4	0.106	4988	31	0.085	3990	0.071	3325	220	2130	3186	3520	4000	
			1750	0.3	0.068	5028	34	0.054	4022	0.045	3352						
			1160	0.2	0.042	5066	37	0.034	4053	0.028	3377						
			870	0.1	0.03	5072	39	0.024	4058	0.020	3381						
			600	0.1	0.019	5103	42	0.015	4082	0.013	3402						
			300	0.1	0.009	5110	44	0.007	4088	0.006	3407						
			100	-	0.003	5114	42	0.002	4091	0.002	3409						
7920(D)	99	80	2500	0.3	0.064	3818	29	0.051	3054	0.043	2545	220	2130	3357	3520	4000	
			1750	0.2	0.041	3828	32	0.033	3062	0.027	2552						
			1160	0.1	0.025	3836	35	0.020	3069	0.017	2557						
			870	0.1	0.018	3840	37	0.014	3072	0.012	2560						
			600	0.1	0.012	3843	39	0.010	3074	0.008	2562						
			300	-	0.006	3847	41	0.005	3078	0.004	2565						
			100	-	0.002	3850	39	0.002	3080	0.001	2567						
9900(D)	100	100	2500	0.3	0.041	2940	28	0.033	2352	0.027	1960	220	2130	3357	3520	4000	
			1750	0.2	0.027	2948	31	0.022	2358	0.018	1965						
			1160	0.1	0.016	2953	33	0.013	2362	0.011	1969						
			870	0.1	0.012	2956	35	0.010	2365	0.008	1971						
			600	0.1	0.008	2959	37	0.006	2367	0.005	1973						
			300	-	0.004	2962	39	0.003	2370	0.003	1975						
			100	-	0.001	2964	36	0.001	2371	0.001	1976						

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.

Ratings



2D DRAWINGS & 3D MODELS
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DOUBLE REDUCTION

With Mobil Glygoyle 460 Lubricant



CENTER DISTANCE DOUBLE WORM HELICAL WORM		PRIMARY 2.625 3.200	SECONDARY 4.250 4.250	HORSEPOWER AND TORQUE RATINGS								OVERHUNG LOAD CAPACITIES (lb)			THRUST LOAD CAPACITIES (lb)		
OVERALL RATIO ¹	PRIMARY RATIO ¹	SECONDARY RATIO ¹	INPUT RPM ²	OUTPUT RPM	MECHANICAL								ALL SHAFT INPUT MODELS	OUTPUT SHAFT ^{5,6}		OUTPUT SHAFT ⁶	
					1.00 SERVICE FACTOR		1.25 SERVICE FACTOR		1.50 SERVICE FACTOR		SOLID ³ SHAFT (e.g. MDND)	HOLLOW ⁴ SHAFT (e.g. MDSD)		SOLID SHAFT (e.g. MDND)	HOLLOW SHAFT (e.g. MDSD)		
					INPUT HP	OUTPUT TORQUE (lb-ft-in.)	EFF	INPUT HP	OUTPUT TORQUE (lb-ft-in.)	INPUT HP						OUTPUT TORQUE (lb-ft-in.)	
25.3(H)	5.06	5	2500	98.8	14.094	8404	93	11.275	6723	9.396	5603	500	2175	2320	2337	3955	
			1750	69.2	11.009	9309	93	8.807	7447	7.339	6206						
			1160	45.8	7.714	9756	92	6.171	7805	5.143	6504						
			870	34.4	5.875	9847	91	4.700	7878	3.917	6565						
			600	23.7	4.054	9778	91	3.243	7822	2.703	6519						
			300	11.9	2.062	9817	90	1.650	7854	1.375	6545						
			100	4.0	0.645	9065	88	0.516	7252	0.430	6043						
29.6(H)	5.93	5	2500	84.3	12.657	8810	93	10.126	7048	8.438	5873	500	2175	2320	2337	3955	
			1750	59.0	9.183	9063	92	7.346	7250	6.122	6042						
			1160	39.1	6.241	9212	92	4.993	7370	4.161	6141						
			870	29.3	4.729	9251	91	3.783	7401	3.153	6167						
			600	20.2	3.23	9094	90	2.584	7275	2.153	6063						
			300	10.1	1.616	8985	89	1.293	7188	1.077	5990						
			100	3.4	0.513	8427	88	0.410	6742	0.342	5618						
38.0(H)	5.06	7.5	2500	65.9	10.755	9464	92	8.604	7571	7.170	6309	500	2518	2660	2697	4500	
			1750	46.1	8.364	10417	91	6.691	8334	5.576	6945						
			1160	30.6	6.044	11234	90	4.835	8987	4.029	7489						
			870	22.9	4.739	11659	89	3.791	9327	3.159	7773						
			600	15.8	3.415	12069	89	2.732	9655	2.277	8046						
			300	7.9	1.802	12541	87	1.442	10033	1.201	8361						
			100	2.6	0.629	12866	86	0.503	10293	0.419	8577						
50(D)	5	10	2500	50.0	8.837	9765	88	7.070	7812	5.891	6510	500	2786	2930	2972	4500	
			1750	35.0	7.019	11058	87	5.615	8846	4.679	7372						
			1160	23.2	5.044	11905	87	4.035	9524	3.363	7937						
			870	17.4	3.946	12344	86	3.157	9875	2.631	8229						
			600	12.0	2.844	12768	85	2.275	10214	1.896	8512						
			300	6.0	1.517	13256	83	1.214	10605	1.011	8837						
			100	2.0	0.572	13591	75	0.458	10873	0.381	9061						
50.6(H)	5.06	10	2500	49.4	8.755	10106	90	7.004	8085	5.837	6737	500	2786	2930	2972	4500	
			1750	34.6	6.798	11087	89	5.438	8870	4.532	7391						
			1160	22.9	4.909	11925	88	3.927	9540	3.273	7950						
			870	17.2	3.85	12360	88	3.080	9888	2.567	8240						
			600	11.9	2.775	12779	87	2.220	10223	1.850	8519						
			300	5.9	1.466	13262	85	1.173	10610	0.977	8841						
			100	2.0	0.512	13593	83	0.410	10874	0.341	9062						
59.3(H)	5.93	10	2500	42.2	7.861	10574	90	6.289	8459	5.241	7049	500	2786	2930	2972	4500	
			1750	29.5	6.022	11444	89	4.818	9155	4.015	7629						
			1160	19.6	4.302	12178	88	3.442	9742	2.868	8119						
			870	14.7	3.355	12556	87	2.684	10045	2.237	8371						
			600	10.1	2.406	12919	86	1.925	10335	1.604	8613						
			300	5.1	1.264	13334	85	1.011	10667	0.843	8889						
			100	1.7	0.441	13618	83	0.353	10894	0.294	9079						

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.

Ratings





DOUBLE REDUCTION

With Mobil Glygoyle 460 Lubricant

REDUCER SIZE

E43

CENTER DISTANCE DOUBLE WORM HELICAL WORM		PRIMARY 2.625 3.200	SECONDARY 4.250 4.250	HORSEPOWER AND TORQUE RATINGS								OVERHUNG LOAD CAPACITIES (lb)			THRUST LOAD CAPACITIES (lb)		
OVERALL RATIO ¹	PRIMARY RATIO ¹	SECONDARY RATIO ¹	INPUT RPM ²	OUTPUT RPM	MECHANICAL								ALL SHAFT INPUT MODELS	SOLID ³ SHAFT (e.g. MDND)	HOLLOW ⁴ SHAFT (e.g. MDSD)	OUTPUT SHAFT ⁶	
					1.00 SERVICE FACTOR		1.25 SERVICE FACTOR		1.50 SERVICE FACTOR		SOLID SHAFT (e.g. MDND)	HOLLOW SHAFT (e.g. MDSD)					
					INPUT HP	OUTPUT TORQUE (lb•in.)	EFF	INPUT HP	OUTPUT TORQUE (lb•in.)	INPUT HP						OUTPUT TORQUE (lb•in.)	
75(D)	5	15	2500	33.3	6.713	10774	85	5.370	8619	4.475	7183	500	2800	3340	3577	4500	
			1750	23.3	5.176	11804	84	4.141	9443	3.451	7869						
			1160	15.5	3.726	12682	84	2.981	10146	2.484	8455						
			870	11.6	2.919	13138	83	2.335	10510	1.946	8759						
			600	8.0	2.109	13577	82	1.687	10862	1.406	9051						
			300	4.0	1.128	14081	79	0.902	11265	0.752	9387						
			100	1.3	0.428	14428	71	0.342	11542	0.285	9619						
75.9(H)	5.06	15	2500	32.9	6.451	10813	88	5.161	8650	4.301	7209	500	2800	3340	3577	4500	
			1750	23.1	5.013	11834	86	4.010	9467	3.342	7889						
			1160	15.3	3.627	12704	85	2.902	10163	2.418	8469						
			870	11.5	2.848	13154	84	2.278	10523	1.899	8769						
			600	7.9	2.057	13588	83	1.646	10870	1.371	9059						
			300	4.0	1.091	14087	81	0.873	11270	0.727	9391						
			100	1.3	0.383	14430	79	0.306	11544	0.255	9620						
88.9(H)	5.93	15	2500	28.1	5.794	11301	87	4.635	9041	3.863	7534	500	2800	3340	3577	4500	
			1750	19.7	4.444	12205	86	3.555	9764	2.963	8137						
			1160	13.0	3.181	12966	84	2.545	10373	2.121	8644						
			870	9.8	2.485	13358	83	1.988	10686	1.657	8905						
			600	6.7	1.785	13733	82	1.428	10986	1.190	9155						
			300	3.4	0.941	14162	81	0.753	11330	0.627	9441						
			100	1.1	0.33	14456	78	0.264	11565	0.220	9637						
100(D)	5	20	2500	25.0	5.191	10854	83	4.153	8683	3.461	7236	500	2800	3660	4046	4500	
			1750	17.5	3.979	11801	82	3.183	9441	2.653	7867						
			1160	11.6	2.749	12148	81	2.199	9718	1.833	8099						
			870	8.7	2.077	12123	81	1.662	9698	1.385	8082						
			600	6.0	1.456	12144	79	1.165	9715	0.971	8096						
			300	3.0	0.75	12101	77	0.600	9681	0.500	8067						
			100	1.0	0.315	13717	69	0.252	10974	0.210	9145						
101.3(H)	5.06	20	2500	24.7	4.987	10890	86	3.990	8712	3.325	7260	500	2800	3660	4046	4500	
			1750	17.3	3.853	11828	84	3.082	9462	2.569	7885						
			1160	11.5	2.676	12168	83	2.141	9734	1.784	8112						
			870	8.6	2.027	12138	82	1.622	9710	1.351	8092						
			600	5.9	1.413	12094	80	1.130	9675	0.942	8063						
			300	3.0	0.725	12106	79	0.580	9685	0.483	8071						
			100	1.0	0.282	13719	76	0.226	10975	0.188	9146						
118.6(H)	5.93	20	2500	21.1	4.466	11339	85	3.573	9071	2.977	7559	500	2800	3660	4046	4500	
			1750	14.8	3.404	12152	84	2.723	9722	2.269	8101						
			1160	9.8	2.298	12155	82	1.838	9724	1.532	8103						
			870	7.3	1.741	12134	81	1.393	9707	1.161	8089						
			600	5.1	1.214	12099	80	0.971	9679	0.809	8066						
			300	2.5	0.622	12111	78	0.498	9689	0.415	8074						
			100	0.8	0.249	14057	76	0.199	11246	0.166	9371						

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.



2D DRAWINGS & 3D MODELS
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DOUBLE REDUCTION

With Mobil Glygoyle 460 Lubricant



CENTER DISTANCE DOUBLE WORM HELICAL WORM		PRIMARY 2.625 3.200	SECONDARY 4.250 4.250	HORSEPOWER AND TORQUE RATINGS								OVERHUNG LOAD CAPACITIES (lb)			THRUST LOAD CAPACITIES (lb)		
OVERALL RATIO ¹	PRIMARY RATIO ¹	SECONDARY RATIO ¹	INPUT RPM ²	OUTPUT RPM	MECHANICAL								ALL SHAFT INPUT MODELS	OUTPUT SHAFT ^{5,6}		OUTPUT SHAFT ⁶	
					1.00 SERVICE FACTOR		1.25 SERVICE FACTOR		1.50 SERVICE FACTOR		SOLID ³ SHAFT (e.g. MDND)	HOLLOW ⁴ SHAFT (e.g. MDSD)		SOLID SHAFT (e.g. MDND)	HOLLOW SHAFT (e.g. MDSD)		
					INPUT HP	OUTPUT TORQUE (lbf-in.)	EFF	INPUT HP	OUTPUT TORQUE (lbf-in.)	INPUT HP						OUTPUT TORQUE (lbf-in.)	
150(D)	10	15	2500	16.7	4.073	12544	81	3.258	10035	2.715	8363	250	2800	3340	3577	4500	
			1750	11.7	2.99	13130	81	2.392	10504	1.993	8753						
			1160	7.7	2.075	13610	80	1.660	10888	1.383	9073						
			870	5.8	1.598	13852	80	1.278	11082	1.065	9235						
			600	4.0	1.135	14081	79	0.908	11265	0.757	9387						
			300	2.0	0.597	14341	76	0.478	11473	0.398	9561						
			100	0.7	0.235	14516	65	0.188	11613	0.157	9677						
151.9(H)	5.06	30	2500	16.5	3.533	11122	82	2.826	8898	2.355	7415	500	2800	4260	4200	4500	
			1750	11.5	2.783	12153	80	2.226	9722	1.855	8102						
			1160	7.6	2.059	13032	77	1.647	10426	1.373	8688						
			870	5.7	1.624	13486	75	1.299	10789	1.083	8991						
			600	4.0	1.179	13924	74	0.943	11139	0.786	9283						
			300	2.0	0.629	14426	72	0.503	11541	0.419	9617						
			100	0.7	0.223	14772	69	0.178	11818	0.149	9848						
177.9(H)	5.93	30	2500	14.1	3.188	11615	81	2.550	9292	2.125	7743	500	2800	4260	4200	4500	
			1750	9.8	2.491	12528	79	1.993	10022	1.661	8352						
			1160	6.5	1.81	13296	76	1.448	10637	1.207	8864						
			870	4.9	1.42	13691	75	1.136	10953	0.947	9127						
			600	3.4	1.025	14069	73	0.820	11255	0.683	9379						
			300	1.7	0.544	14502	71	0.435	11602	0.363	9668						
			100	0.6	0.192	14797	69	0.154	11838	0.128	9865						
200(D)	10	20	2500	12.5	3.037	12148	79	2.430	9718	2.025	8099	250	2800	3660	4046	4500	
			1750	8.8	2.127	12116	79	1.702	9693	1.418	8077						
			1160	5.8	1.426	12112	78	1.141	9690	0.951	8075						
			870	4.4	1.082	12142	77	0.866	9714	0.721	8095						
			600	3.0	0.754	12101	76	0.603	9681	0.503	8067						
			300	1.5	0.409	12706	74	0.327	10165	0.273	8471						
			100	0.5	0.177	14057	63	0.142	11246	0.118	9371						
202.5(H)	5.06	40	2500	12.4	2.638	10850	81	2.110	8680	1.759	7233	500	2800	4578	4200	4500	
			1750	8.6	2.069	11774	78	1.655	9419	1.379	7849						
			1160	5.7	1.519	12344	74	1.215	9875	1.013	8229						
			870	4.3	1.158	12311	72	0.926	9849	0.772	8207						
			600	3.0	0.816	12323	71	0.653	9858	0.544	8215						
			300	1.5	0.432	12644	69	0.346	10115	0.288	8429						
			100	0.5	0.165	13887	66	0.132	11110	0.110	9258						
253.2(H)	5.06	50	2500	9.9	1.813	9060	78	1.450	7248	1.209	6040	500	2800	4915	4200	4500	
			1750	6.9	1.318	9071	76	1.054	7257	0.879	6047						
			1160	4.6	0.927	9069	71	0.742	7255	0.618	6046						
			870	3.4	0.705	9030	70	0.564	7224	0.470	6020						
			600	2.4	0.496	9026	68	0.397	7221	0.331	6017						
			300	1.2	0.276	9720	66	0.221	7776	0.184	6480						
			100	0.4	0.111	11220	64	0.089	8976	0.074	7480						

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.

Ratings





DOUBLE REDUCTION

With Mobil Glygoyle 460 Lubricant

REDUCER SIZE

E43

CENTER DISTANCE DOUBLE WORM HELICAL WORM		PRIMARY 2.625 3.200	SECONDARY 4.250 4.250	HORSEPOWER AND TORQUE RATINGS								OVERHUNG LOAD CAPACITIES (lb)			THRUST LOAD CAPACITIES (lb)		
OVERALL RATIO ¹	PRIMARY RATIO ¹	SECONDARY RATIO ¹	INPUT RPM ²	OUTPUT RPM	MECHANICAL								ALL SHAFT INPUT MODELS	OUTPUT SHAFT ^{5,6}		OUTPUT SHAFT ⁶	
					1.00 SERVICE FACTOR		1.25 SERVICE FACTOR		1.50 SERVICE FACTOR		SOLID ³ SHAFT (e.g. MDND)	HOLLOW ⁴ SHAFT (e.g. MDSD)		SOLID SHAFT (e.g. MDND)	HOLLOW SHAFT (e.g. MDSD)		
					INPUT HP	OUTPUT TORQUE (lbf-in.)	EFF	INPUT HP	OUTPUT TORQUE (lbf-in.)	INPUT HP						OUTPUT TORQUE (lbf-in.)	
296.4(H)	5.93	50	2500	8.4	1.57	9051	77	1.256	7241	1.047	6034	500	2800	4915	4200	4500	
			1750	5.9	1.149	9075	74	0.919	7260	0.766	6050						
			1160	3.9	0.798	9049	70	0.638	7239	0.532	6033						
			870	2.9	0.607	9019	69	0.486	7215	0.405	6013						
			600	2.0	0.427	9024	68	0.342	7219	0.285	6016						
			300	1.0	0.242	9917	66	0.194	7934	0.161	6611						
			100	0.3	0.096	11353	63	0.077	9082	0.064	7569						
300(D)	20	15	2500	8.3	2.35	13535	76	1.880	10828	1.567	9023	275	2800	3340	3577	4500	
			1750	5.8	1.669	13848	77	1.335	11078	1.113	9232						
			1160	3.9	1.134	14099	76	0.907	11279	0.756	9399						
			870	2.9	0.862	14223	76	0.690	11378	0.575	9482						
			600	2.0	0.605	14341	75	0.484	11473	0.403	9561						
			300	1.0	0.315	14472	73	0.252	11578	0.210	9648						
			100	0.3	0.124	14561	62	0.099	11649	0.083	9707						
355.7(H)	5.93	60	2500	7.0	1.086	7242	74	0.869	5794	0.724	4828	500	2800	5210	4200	4500	
			1750	4.9	0.844	7718	71	0.675	6174	0.563	5145						
			1160	3.2	0.607	7993	68	0.486	6394	0.405	5329						
			870	2.4	0.463	7993	67	0.370	6394	0.309	5329						
			600	1.7	0.326	7993	66	0.261	6394	0.217	5329						
			300	0.8	0.168	7993	64	0.134	6394	0.112	5329						
			100	0.3	0.063	8698	61	0.050	6958	0.042	5799						
500(D)	20	25	2500	5.0	1.58	13974	70	1.264	11179	1.053	9316	275	2800	3950	4200	4500	
			1750	3.5	1.126	14299	71	0.901	11439	0.751	9533						
			1160	2.3	0.768	14561	70	0.614	11649	0.512	9707						
			870	1.7	0.586	14691	69	0.469	11753	0.391	9794						
			600	1.2	0.412	14813	69	0.330	11850	0.275	9875						
			300	0.6	0.215	14950	66	0.172	11960	0.143	9967						
			100	0.2	0.085	15042	56	0.068	12034	0.057	10028						
750(D)	25	30	2500	3.3	1.123	14079	66	0.898	11263	0.749	9386	275	2800	4260	4200	4500	
			1750	2.3	0.794	14334	67	0.635	11467	0.529	9556						
			1160	1.5	0.539	14538	66	0.431	11630	0.359	9692						
			870	1.2	0.409	14639	66	0.327	11711	0.273	9759						
			600	0.8	0.287	14734	65	0.230	11787	0.191	9823						
			300	0.4	0.15	14840	63	0.120	11872	0.100	9893						
			100	0.1	0.06	14912	53	0.048	11930	0.040	9941						
1000(D)	50	20	2500	2.5	0.738	12115	65	0.590	9692	0.492	8077	285	2800	3660	4046	4500	
			1750	1.8	0.514	12353	67	0.411	9882	0.343	8235						
			1160	1.2	0.364	13350	67	0.291	10680	0.243	8900						
			870	0.9	0.288	14018	67	0.230	11214	0.192	9345						
			600	0.6	0.2	14057	67	0.160	11246	0.133	9371						
			300	0.3	0.103	14057	65	0.082	11246	0.069	9371						
			100	0.1	0.042	14057	54	0.034	11246	0.028	9371						

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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2D DRAWINGS & 3D MODELS
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DOUBLE REDUCTION

With Mobil Glygoyle 460 Lubricant



CENTER DISTANCE DOUBLE WORM HELICAL WORM		PRIMARY 2.625 3.200	SECONDARY 4.250 4.250	HORSEPOWER AND TORQUE RATINGS								OVERHUNG LOAD CAPACITIES (lb)			THRUST LOAD CAPACITIES (lb)		
OVERALL RATIO ¹	PRIMARY RATIO ¹	SECONDARY RATIO ¹	INPUT RPM ²	OUTPUT RPM	MECHANICAL								ALL SHAFT INPUT MODELS	OUTPUT SHAFT ^{5,6}		OUTPUT SHAFT ⁶	
					1.00 SERVICE FACTOR		1.25 SERVICE FACTOR		1.50 SERVICE FACTOR		SOLID ³ SHAFT (e.g. MDND)	HOLLOW ⁴ SHAFT (e.g. MDSD)		SOLID SHAFT (e.g. MDND)	HOLLOW SHAFT (e.g. MDSD)		
					INPUT HP	OUTPUT TORQUE (lbf-in.)	EFF	INPUT HP	OUTPUT TORQUE (lbf-in.)	INPUT HP						OUTPUT TORQUE (lbf-in.)	
1500(D)	50	30	2500	1.7	0.676	14507	57	0.541	11606	0.451	9671	285	2800	4260	4200	4500	
			1750	1.2	0.459	14638	59	0.367	11710	0.306	9759						
			1160	0.8	0.301	14741	60	0.241	11793	0.201	9827						
			870	0.6	0.233	14793	59	0.186	11834	0.155	9862						
			600	0.4	0.168	14840	56	0.134	11872	0.112	9893						
			300	0.2	0.088	14894	54	0.070	11915	0.059	9929						
			100	0.1	0.033	14929	47	0.026	11943	0.022	9953						
2000(D)	50	40	2500	1.3	0.447	12844	57	0.358	10275	0.298	8563	285	2800	4578	4200	4500	
			1750	0.9	0.32	13427	58	0.256	10742	0.213	8951						
			1160	0.6	0.217	13887	59	0.174	11110	0.145	9258						
			870	0.4	0.164	13887	58	0.131	11110	0.109	9258						
			600	0.3	0.114	13887	58	0.091	11110	0.076	9258						
			300	0.2	0.059	13887	56	0.047	11110	0.039	9258						
			100	0.1	0.024	13887	46	0.019	11110	0.016	9258						
3000(D)	60	50	2500	0.8	0.254	10120	53	0.203	8096	0.169	6747	270	2800	4915	4200	4500	
			1750	0.6	0.185	10773	54	0.148	8618	0.123	7182						
			1160	0.4	0.129	11280	54	0.103	9024	0.086	7520						
			870	0.3	0.098	11426	53	0.078	9141	0.065	7617						
			600	0.2	0.068	11515	53	0.054	9212	0.045	7677						
			300	0.1	0.035	11724	52	0.028	9379	0.023	7816						
			100	-	0.014	11807	43	0.011	9446	0.009	7871						
3600(D)	60	60	2500	0.7	0.173	7993	51	0.138	6394	0.115	5329	270	2800	5210	4200	4500	
			1750	0.5	0.126	8508	52	0.101	6806	0.084	5672						
			1160	0.3	0.086	8686	52	0.069	6949	0.057	5791						
			870	0.2	0.065	8754	52	0.052	7003	0.043	5836						
			600	0.2	0.045	8820	52	0.036	7056	0.030	5880						
			300	0.1	0.023	8890	51	0.018	7112	0.015	5927						
			100	-	0.009	8908	42	0.007	7126	0.006	5939						
4000(D)	80	50	2500	0.6	0.233	10652	45	0.186	8522	0.155	7101	270	2800	4915	4200	4500	
			1750	0.4	0.168	11206	46	0.134	8965	0.112	7471						
			1160	0.3	0.109	11426	48	0.087	9141	0.073	7617						
			870	0.2	0.081	11509	49	0.065	9207	0.054	7673						
			600	0.2	0.056	11648	49	0.045	9318	0.037	7765						
			300	0.1	0.028	11733	49	0.022	9386	0.019	7822						
			100	-	0.012	11810	40	0.010	9448	0.008	7873						

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.

Ratings





DOUBLE REDUCTION

With Mobil Glygoyle 460 Lubricant

REDUCER SIZE

E43

CENTER DISTANCE DOUBLE WORM HELICAL WORM		PRIMARY 2.625 3.200	SECONDARY 4.250 4.250	HORSEPOWER AND TORQUE RATINGS								OVERHUNG LOAD CAPACITIES (lb)			THRUST LOAD CAPACITIES (lb)		
OVERALL RATIO ¹	PRIMARY RATIO ¹	SECONDARY RATIO ¹	INPUT RPM ²	OUTPUT RPM	MECHANICAL								ALL SHAFT INPUT MODELS	OUTPUT SHAFT ^{5,6}		OUTPUT SHAFT ⁶	
					1.00 SERVICE FACTOR		1.25 SERVICE FACTOR		1.50 SERVICE FACTOR		SOLID ³ SHAFT (e.g. MDND)	HOLLOW ⁴ SHAFT (e.g. MDSD)		SOLID SHAFT (e.g. MDND)	HOLLOW SHAFT (e.g. MDSD)		
					INPUT HP	OUTPUT TORQUE (lbf-in.)	EFF	INPUT HP	OUTPUT TORQUE (lbf-in.)	INPUT HP						OUTPUT TORQUE (lbf-in.)	
5000(D)	100	50	2500	0.5	0.233	11074	38	0.186	8859	0.155	7383	270	2800	4915	4200	4500	
			1750	0.4	0.154	11292	41	0.123	9034	0.103	7528						
			1160	0.2	0.098	11504	43	0.078	9203	0.065	7669						
			870	0.2	0.071	11581	45	0.057	9265	0.047	7721						
			600	0.1	0.049	11659	46	0.039	9327	0.033	7773						
			300	0.1	0.025	11797	45	0.020	9438	0.017	7865						
			100	-	0.01	11871	36	0.008	9497	0.007	7914						
6000(D)	100	60	2500	0.4	0.156	8571	36	0.125	6857	0.104	5714	270	2800	5210	4200	4500	
			1750	0.3	0.102	8695	39	0.082	6956	0.068	5797						
			1160	0.2	0.064	8768	42	0.051	7014	0.043	5845						
			870	0.1	0.047	8827	43	0.038	7062	0.031	5885						
			600	0.1	0.032	8841	44	0.026	7073	0.021	5894						
			300	0.1	0.016	8901	44	0.013	7121	0.011	5934						
			100	-	0.007	8911	35	0.006	7129	0.005	5941						
8000(D)	100	80	2500	0.3	0.095	6560	34	0.076	5248	0.063	4373	270	2800	5231	4200	4500	
			1750	0.2	0.061	6560	37	0.049	5248	0.041	4373						
			1160	0.1	0.038	6560	40	0.030	5248	0.025	4373						
			870	0.1	0.028	6560	41	0.022	5248	0.019	4373						
			600	0.1	0.019	6560	42	0.015	5248	0.013	4373						
			300	-	0.009	6560	42	0.007	5248	0.006	4373						
			100	-	0.004	6560	33	0.003	5248	0.003	4373						
10000(D)	100	100	2500	0.3	0.067	5529	33	0.054	4423	0.045	3686	270	2800	5231	4200	4500	
			1750	0.2	0.043	5534	35	0.034	4427	0.029	3689						
			1160	0.1	0.027	5534	38	0.022	4427	0.018	3689						
			870	0.1	0.02	5534	39	0.016	4427	0.013	3689						
			600	0.1	0.013	5534	40	0.010	4427	0.009	3689						
			300	-	0.007	5534	40	0.006	4427	0.005	3689						
			100	-	0.003	5534	32	0.002	4427	0.002	3689						

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Ratings



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