

APPROXIMATE MAXIMUM TORQUE RATINGS FOR VARIOUS SIZE SHAFT MOUNT GEAR REDUCERS

Size + Ratio	Ft-Lbs	Size + Ratio	Ft-Lbs	Size + Ratio	Ft-Lbs
5:1		15:1		25:1	
105	219	115	305	125	375
205	410	215	525	225	559
305	540	315	838	325	973
405	679	415	1,110	425	1,459
505	1,134	515	1,480	525	2,501
605	2,387	615	2,219	625	4,040
705	4,236	715	4,986	725	5,627
805	5,294	815	7,503	825	9,848
905	11,255	915	10,942	925	11,255
		1015	11,096	1025	16,586
				1225	24,619
				1325	26,260
				1425	45,018
				1525	87,535

Above chart was generated by selecting the smallest gearbox from Class I Selection to satisfy each HP vs. RPM category. This information is not approved by any gear manufacturer, but offered simply to ease gear selection process by using TORQUE.

Service Class per AGMA (American Gear Manufacturers Association)

Class	Service Factor	Shock Loads	Hours/Day
I	1.0	1 x Rated Load	<10
II	1.4	2 x Rated Load	24
III	2.4	1.25 x Rated Load	<10
III	2.0	1.25 x Rated Load	24
III	2.0	>1.25 x Rated Load	<10

RPM	25	40	55	70	85	100	125	150	175	200	240	280	320
HP	Ft-Lbs of TORQUE												
1	210	131	95	75	62	53	42	35	30	26	22	19	16
1.5	315	197	143	113	93	79	63	53	45	39	33	28	25
2	420	263	191	150	124	105	84	70	60	53	44	38	33
3	630	394	286	225	185	158	126	105	90	79	66	56	49
5	1,050	657	477	375	309	263	210	175	150	131	109	94	82
7.5	1,576	985	716	563	463	394	315	263	225	197	164	141	123
10	2,101	1,313	955	750	618	525	420	350	300	263	219	188	164
15	3,151	1,970	1,432	1,125	927	788	630	525	450	394	328	281	246
20	4,202	2,626	1,910	1,501	1,236	1,050	840	700	600	525	438	375	328
25	5,252	3,283	2,387	1,876	1,545	1,313	1,050	875	750	657	547	469	410
30	6,303	3,939	2,865	2,251	1,854	1,576	1,261	1,050	900	788	657	563	492
40	8,403	5,252	3,820	3,001	2,472	2,101	1,681	1,401	1,200	1,050	875	750	657
50	10,504	6,565	4,775	3,752	3,089	2,626	2,101	1,751	1,501	1,313	1,094	938	821
60	12,605	7,878	5,730	4,502	3,707	3,151	2,521	2,101	1,801	1,576	1,313	1,125	985
75	15,756	9,848	7,162	5,627	4,634	3,939	3,151	2,626	2,251	1,970	1,641	1,407	1,231
100	21,008	13,130	9,549	7,503	6,179	5,252	4,202	3,501	3,001	2,626	2,188	1,876	1,641
125	26,261	16,413	11,937	9,379	7,724	6,565	5,252	4,377	3,752	3,283	2,735	2,345	2,052
150	31,513	19,695	14,324	11,255	9,268	7,878	6,303	5,252	4,502	3,939	3,283	2,814	2,462
175	36,765	22,978	16,711	13,130	10,813	9,191	7,353	6,127	5,252	4,596	3,830	3,283	2,872
200	42,017	26,261	19,099	15,006	12,358	10,504	8,403	7,003	6,002	5,252	4,377	3,752	3,283

RPM	25	40	55	70	85	100	125	150	175	200	240	280	320
HP	in-lbs of TORQUE												
1	2,521	1,576	1,146	900	741	630	504	420	360	315	263	225	197
1.5	3,782	2,363	1,719	1,351	1,112	945	756	630	540	473	394	338	295
2	5,042	3,151	2,292	1,801	1,483	1,261	1,008	840	720	630	525	450	394
3	7,563	4,727	3,438	2,701	2,224	1,891	1,513	1,261	1,080	945	788	675	591
5	12,605	7,878	5,730	4,502	3,707	3,151	2,521	2,101	1,801	1,576	1,313	1,125	985
7.5	18,908	11,817	8,594	6,753	5,561	4,727	3,782	3,151	2,701	2,363	1,970	1,688	1,477
10	25,210	15,756	11,459	9,004	7,415	6,303	5,042	4,202	3,601	3,151	2,626	2,251	1,970
15	37,815	23,635	17,189	13,505	11,122	9,454	7,563	6,303	5,402	4,727	3,939	3,376	2,954
20	50,420	31,513	22,918	18,007	14,829	12,605	10,084	8,403	7,203	6,303	5,252	4,502	3,939
25	63,025	39,391	28,648	22,509	18,537	15,756	12,605	10,504	9,004	7,878	6,565	5,627	4,924
30	75,630	47,269	34,377	27,011	22,244	18,908	15,126	12,605	10,804	9,454	7,878	6,753	5,909
40	100,841	63,025	45,837	36,014	29,659	25,210	20,168	16,807	14,406	12,605	10,504	9,004	7,878
50	126,051	78,782	57,296	45,018	37,074	31,513	25,210	21,008	18,007	15,756	13,130	11,255	9,848
60	151,261	94,538	68,755	54,022	44,488	37,815	30,252	25,210	21,609	18,908	15,756	13,505	11,817
75	189,076	118,173	85,944	67,527	55,611	47,269	37,815	31,513	27,011	23,635	19,695	16,882	14,772
100	252,101	157,563	114,592	90,036	74,147	63,025	50,420	42,017	36,014	31,513	26,261	22,509	19,695
125	315,127	196,954	143,239	112,545	92,684	78,782	63,025	52,521	45,018	39,391	32,826	28,136	24,619
150	378,152	236,345	171,887	135,054	111,221	94,538	75,630	63,025	54,022	47,269	39,391	33,764	29,543
175	441,178	275,736	200,535	157,563	129,758	110,294	88,236	73,530	63,025	55,147	45,956	39,391	34,467
200	504,203	315,127	229,183	180,072	148,295	126,051	100,841	84,034	72,029	63,025	52,521	45,018	39,391