

WORLDWIDE GEAR REDUCERS

Inline Helical Speed Reducers

Mechanical Ratings



Box Size	Normal Ratio	Actual Ratio	Output RPM	Input HP	Output Torque (lbs. in.)	O.H.L. (lbs.)	Stages	56C		143/145TC		182TC		184TC		213TC		215TC		254TC		256TC		
								HP	T	HP	T	HP	T	HP	T	HP	T	HP	T	HP	T	HP	T	
37	5:1	4.88	359	5.91	970	305	2	1.0	165	2.0	330													
	10:1	10.02	175	4.04	1360	388	2	1.0	340	2.0	680													
	15:1	15.75	111	2.99	1580	451	2	1.0	535	2.0	1070													
	20:1	19.95	88	2.49	1670	489	2	1.0	680	2.0	1355													
	30:1	31.02	56	1.75	1770	565	3	1.0	1025	2.0	2130													
	40:1	40.08	44	1.35	1770	615	3	1.0	1325															
	50:1	52.24	33	1.04	1770	670	3	1.0	1725															
60:1	60.84	29	0.89	1770	705	3	0.89	1770																
47	5:1	4.85	361	9.59	1565	440	2			2.0	330	3.0	495	5.0	825									
	10:1	11.27	155	5.95	2255	590	2					3.0	1150											
	15:1	15.18	115	4.87	2490	650	2					3.0	1555											
	20:1	18.37	95	4.29	2650	690	2			2.0	1250	3.0	1880											
	30:1	31.83	55	2.73	2830	835	3			2.0	2105	3.0	3250											
	40:1	41.51	42	2.09	2830	910	3	1.0	1370															
	50:1	52.84	33	1.64	2830	985	3	1.0	1740															
60:1	63.37	28	1.37	2830	1050	3	1.0	2095																
RX57	3:1	3.19	549	4.04	447	133	1					3.0	336											
RX67	2:1	1.86	941	9.43	617	43	1					3.0	196	5.0	327									
	2.5:1	2.35	745	7.56	616	94	1					3.0	248	5.0	413									
	3.5:1	3.52	497	4.11	502	301	1					3.0	371											
67	5:1	5.23	335	15.38	2710	710	2			2.0	355	3.0	535	5.0	890									
	10:1	9.90	177	12.39	4130	880	2					3.0	1010	5.0	1685									
	15:1	15.41	114	9.23	4785	1020	2			2.0	1050	3.0	1575											
	20:1	22.90	76	6.87	4720	1165	3					3.0	2270	5.0	3785									
	30:1	32.02	55	4.83	5045	1305	3			2.0	2115													
	40:1	41.22	42	3.75	5045	1420	3			2.0	2725													
	50:1	52.21	34	2.96	5045	1480	3			2.0	3400													
	60:1	63.07	28	2.45	5045	1480	3	1.0	2085															
	80:1	78.59	22	1.97	5045	1480	3	1.0	2590															
	100:1	98.69	18	1.57	5045	1480	3	1.0	3260															
	120:1	125.28	14	1.23	5045	1480	3	1.0	4140															
	RX77	4:1	4.19	418	6.16	895	474	1					3.0	442										
77	5:1	4.78	366	25.13	4040	785	2					3.0	485	5.0	815	7.5	1220	10	1630					
	10:1	10.91	160	16.89	6205	1035	2									7.5	2795	10	3725					
	15:1	14.83	118	12.35	6165	1145	2					3.0	1515	5.0	2525									
	20:1	23.31	75	7.84	6150	1330	2					3.0	2385	5.0	3975									
	30:1	31.97	55	6.36	6640	1480	3					3.0	3155											
	40:1	39.31	45	5.49	6640	1555	3					3.0	3855											
	50:1	53.24	33	3.82	6640	1755	3			2.0	3505													
	60:1	57.73	30	3.52	6640	1800	3			2.0	3855													
	80:1	84.62	21	2.40	6640	1935	3			2.0	5510													
	100:1	89.80	19	2.26	6640	1935	3			2.0	6090													
	120:1	124.34	14	1.64	6640	1935	3	1.0	4130															
	RX87	2:1	2.04	858	26.27	1859	123	1									7.5	538	10	717	15	1075	20	1434
2.5:1		2.52	694	20.25	1770	254	1									7.5	664	10	886	15	1328	20	1771	
3:1		3.19	549	14.4	1593	497	1									7.5	841	10	1121					
3.5:1		3.54	494	12.83	1575	573	1									7.5	993	10	1244					
4:1		3.77	464	11.51	1505	690	1									7.5	994	10	1325					
4.5:1		4.43	395	6.91	1062	942	1						3.0	467	5.0	778								
87	5:1	4.73	370	38.49	6120	1800	2									7.5	1205	10	1610	15	2415	20	3225	
	10:1	10.66	164	27.28	9790	2375	2									7.5	2725	10	3635					
	15:1	15.29	114	21.45	11040	2680	2									7.5	3925	10	5230					
	20:1	20.06	87	15.13	9915	2925	3					3.0	1995	5.0	3325	7.5	4985							
	30:1	31.73	55	11.15	11550	3010	3					3.0	3155	5.0	5260									
	40:1	38.20	46	11.36	14170	3010	3					3.0	3770	5.0	6290									
	50:1	49.16	36	8.83	14170	3010	3			2.0	3215	3.0	4820	5.0	8035									
	60:1	61.54	28	7.05	14170	3010	3			2.0	4130	3.0	6200	5.0	10330									
	80:1	87.27	20	4.97	14170	3010	3			2.0	5785	3.0	8680											
	100:1	112.52	16	3.86	14170	3010	3			2.0	7230													
	120:1	122.17	14	3.55	14170	3010	3			2.0	8265													

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								HP	T	HP	+T	HP	T	HP	T	HP	T	HP	T	HP	T	HP	T	HP
RX97	2:1	2.12	825	51.93	3819	152	1																	
	2.5:1	2.68	653	43.80	4071	288	1																	
	3:1	3.07	570	38.23	4071	506	1													15	1618	20	2158	
	3.5:1	3.48	503	33.72	4070	609	1													15	1835	20	2446	
	4:1	3.81	459	30.79	4069	946	1																	
	4.5:1	4.42	396	18.4	2821	1322	1								7.5	1165	10	1553						
97	5:1	5.42	323	68.89	13010	1980	2													15	2770	20	3690	
	10:1	10.00	175	55.84	19450	2430	2																	
	15:1	16.96	103	39.04	23055	2900	2							7.5	4340	10	5790			15	8685	20	11580	
	20:1	21.23	82	31.46	23265	3125	2													15	10910	20	14450	
	30:1	28.98	60	23.23	22750	3465	3													15	14465			
	40:1	44.57	39	17.05	25670	4000	3								7.5	7230	10	9645						
	50:1	51.10	34	15.66	27030	4080	3								7.5	11125	10	14835						
	60:1	59.52	34	13.44	27030	4080	3								7.5	12765	10	17020						
	80:1	82.59	21	9.69	27030	4080	3				3.0	8265	5.0	13775	7.5	14965	10	19950						
	100:1	97.76	18	8.18	27030	4080	3				3.0	9645	5.0	16070		20665								
	120:1	127.61	14	6.27	27030	4080	3				3.0	12400	5.0	20665										
	RX107	3:1	3.12	561	52.34	5664	605	1																
4:1		4.13	424	32.13	4602	1205	1													15	2177	20	2903	
107	5:1	4.50	389	66	9710	2110	2													15	2300	20	3066	
	10:1	10.44	168	57	21523	2581	2																	
	15:1	14.38	122	34	15991	3076	2							7.5	3676	10	4901			15	7352	20	9802	
	20:1	21.79	86	42	28447	3054	3																	
	30:1	29.23	60	31	29000	3502	3																	
	40:1	39.52	44	25.5	32667	3951	3													15	19600	20	26134	
	50:1	53.00	33	20	35053	4422	3								7.5	13145	10	17526			15	26289	20	35053
	60:1	62.90	28	16	31277	4794	3								7.5	15599	10	20799			15	31198		
	80:1	79.95	22	12.5	31059	5309	3								7.5	19827	10	26436						
	120:1	115.50	15	10.5	40102	5938	3								7.5	26909	10	38192						
	137	5:1	4.87	360	98	16262	2716	2													15	2488	20	3317
		10:1	10.12	173	93	32100	3266	2																
15:1		14.60	120	91	43944	3210	3																	
20:1		20.68	85	77	52676	3491	3																	
30:1		32.81	53	52.5	56992	4467	3																	
40:1		43.25	40	41	58670	5017	3																	
50:1		50.13	35	32	53076	5545	3														15	24734	20	33156
60:1		59.14	30	25	48891	6331	3														15	29178	20	39113
80:1		79.05	22	20	52281	6802	3														15	39002	20	52281
120:1		117.25	15	15	57847	7835	3														15	57847		
147	5:1	5.00	350	342	57285	5700	2																	
	10:1	10.24	171	200	68570	7200	2																	
	15:1	15.62	112	150	73700	8300	2																	
	20:1	19.99	88	117.9	76380	9020	3																	
	30:1	30.23	58	84.5	83311	10340	3																	
	40:1	41.70	42	61.3	83309	11550	3																	
	50:1	50.49	35	50.6	83307	12320	3																	
	60:1	60.38	29	42.3	83306	13090	3																	
	80:1	83.30	21	30.7	83304	13640	3																	
	120:1	117.29	15	21	83300	13640	3																	

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Mechanical Ratings



Box Size	Normal Ratio	Actual Ratio	Output RPM	Input HP	Output Torque (lbs. in.)	O.H.L. (lbs.)	Stages	284TC		286TC		324TC		326TC		364TC		365TC		405TC	
								HP	T	HP	T	HP	T	HP	T	HP	T	HP	T	HP	T
RX97	2:1	2.12	825	51.93	3819	152	1	25	1863	30	2235										
	2.5:1	2.68	653	43.80	4071	288	1	25	2355	30	2826										
	3:1	3.07	570	38.23	4071	506	1														
	3.5:1	3.48	503	33.72	4070	609	1	25	3058	30	3669										
	4:1	3.81	459	30.79	4069	946	1	25	3347	30	4017										
	4.5:1	4.42	396	18.4	2821	1322	1														
97	5:1	5.42	323	68.89	13010	1980	2	25	4615	30	5540										
	10:1	10.00	175	55.84	19450	2430	2	25	8520	30	10225										
	15:1	16.96	103	39.04	23055	2900	2	25	14480	30	17375										
	20:1	21.23	82	31.46	23265	3125	2														
	30:1	28.98	60	23.23	22750	3465	3														
	40:1	44.57	39	17.05	25670	4000	3														
	50:1	51.10	34	15.66	27030	4080	3														
	60:1	59.52	34	13.44	27030	4080	3														
	80:1	82.59	21	9.69	27030	4080	3														
	100:1	97.76	18	8.18	27030	4080	3														
120:1	127.61	14	6.27	27030	4080	3															
RX107	3:1	3.12	561	52.34	5664	605	1	25	2741	30	3289										
	4:1	4.13	424	32.13	4602	1205	1														
107	5:1	4.50	389	66	9710	2110	2	25	3833	30	4599	40	6132	50	7665						
	10:1	10.44	168	57	21523	2581	2					40	14240	50	17800						
	15:1	14.38	122	34	15991	3076	2														
	20:1	21.79	86	42	28447	3054	3	25	16726	30	20072	40	26762								
	30:1	29.23	60	31	29000	3502	3	25	24164	30	28997										
	40:1	39.52	44	25.5	32667	3951	3														
	50:1	53.00	33	20	35053	4422	3														
	60:1	62.90	28	16	31277	4794	3														
	80:1	79.95	22	12.5	31059	5309	3														
	120:1	115.50	15	10.5	40102	5938	3														
137	5:1	4.87	360	98	16262	2716	2	25	4147	30	4976	40	6634	50	8293	60	9952	75	12440		
	10:1	10.12	173	93	32100	3266	2									60	20699	75	25874		
	15:1	14.60	120	91	43944	3210	3	25	12066	30	14480	40	19306	50	24133	60	28959	75	36199		
	20:1	20.68	85	77	52676	3491	3									60	41026	75	51282		
	30:1	32.81	53	52.5	56992	4467	3					40	43401	50	54251						
	40:1	43.25	40	41	58670	5017	3	25	35756	30	42908	40	57210								
	50:1	50.13	35	32	53076	5545	3	25	41445	30	49734										
	60:1	59.14	30	25	48891	6331	3														
	80:1	79.05	22	20	52281	6802	3														
	120:1	117.25	15	15	57847	7835	3														
147	4:1	4.16	421	396	54680	5280	2													100	14171
	5:1	5.00	350	342	57285	5700	2	25	4621	30	5113	40	6818	50	8522	60	10227	75	12784	100	17045
	10:1	10.24	171	200	68570	7200	2													100	34900
	15:1	15.62	112	150	73700	8300	2					40	21295	50	26619	60	31943	75	39928	100	53238
	20:1	19.99	88	117.9	76380	9020	3									60	39662	75	49578		
	30:1	30.23	58	84.5	83311	10340	3					40	39980	50	49975	60	59970	75	74962		
	40:1	41.70	42	61.3	83309	11550	3	25	34469	30	41362	40	55150	50	68937						
	50:1	50.49	35	50.6	83307	12320	3	25	41740	30	50088										
	60:1	60.38	29	42.3	83306	13090	3					40	79869								
	80:1	83.30	21	30.7	83304	13640	3	25	68859	30	82631										
120:1	117.29	15	21	83300	13640	3															

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