

HELICON 6.000" OD

RATIO TO 1	OUTPUT SELECTION	Pinion Speed RPM											
		1	100	200	300	600	900	1,200	1,750	2,500	3,600	6,000	10,000
4 1/12	OUTPUT TORQUE (in lb)	4,373	3,592	3,284	3,072	2,667	2,412	2,228	1,985	1,760	1,540		
	OUTPUT TORQUE (Nm)	494	406	371	347	301	273	252	224	199	174		
	EFFICIENCY (%)	90.9	93.6	94.3	94.8	95.5	96.0	96.3	96.6	97.0	97.3		
6 1/8	OUTPUT TORQUE (in lb)	3,886	3,188	2,912	2,723	2,360	2,132	1,967	1,751	1,551	1,355		
	OUTPUT TORQUE (Nm)	439	360	329	308	267	241	222	198	175	153		
	EFFICIENCY (%)	86.9	90.7	91.7	92.4	93.5	94.1	94.5	95.1	95.5	96.0		
8 1/5	OUTPUT TORQUE (in lb)	3,717	3,043	2,772	2,587	2,234	2,013	1,853	1,644	1,453	1,266		
	OUTPUT TORQUE (Nm)	420	344	313	292	252	227	209	186	164	143		
	EFFICIENCY (%)	82.3	87.5	88.9	89.8	91.3	92.1	92.7	93.4	94.0	94.6		
10 1/4	OUTPUT TORQUE (in lb)	5,108	4,097	3,707	3,444	2,949	2,643	2,425	2,142	1,884	1,634		
	OUTPUT TORQUE (Nm)	577	463	419	389	333	299	274	242	213	185		
	EFFICIENCY (%)	77.7	84.0	85.8	86.8	88.7	89.7	90.5	91.4	92.2	92.9		
12 1/4	OUTPUT TORQUE (in lb)	5,259	4,194	3,788	3,515	3,003	2,688	2,463	2,173	1,908	1,653		
	OUTPUT TORQUE (Nm)	594	474	428	397	339	304	278	246	216	187		
	EFFICIENCY (%)	74.3	81.3	83.3	84.5	86.6	87.8	88.7	89.7	90.6	91.5		
14 2/3	OUTPUT TORQUE (in lb)	5,273	4,151	3,732	3,452	2,932	2,615	2,390	2,101	1,840	1,589		
	OUTPUT TORQUE (Nm)	596	469	422	390	331	295	270	237	208	180		
	EFFICIENCY (%)	69.1	77.2	79.5	80.9	83.4	84.9	85.9	87.2	88.3	89.4		
17 1/3	OUTPUT TORQUE (in lb)	5,634	4,410	3,956	3,655	3,095	2,755	2,515	2,207	1,929	1,664		
	OUTPUT TORQUE (Nm)	637	498	447	413	350	311	284	249	218	188		
	EFFICIENCY (%)	64.9	73.6	76.2	77.8	80.6	82.3	83.4	84.8	86.1	87.4		
21 1/2	OUTPUT TORQUE (in lb)	7,558	5,809	5,176	4,760	3,996	3,538	3,217	2,809	2,444	2,097		
	OUTPUT TORQUE (Nm)	854	656	585	538	451	400	363	317	276	237		
	EFFICIENCY (%)	57.4	67.2	70.2	72.1	75.5	77.4	77.8	80.6	82.2	83.7		
25 1/2	OUTPUT TORQUE (in lb)	7,502	5,756	5,124	4,708	3,946	3,490	3,170	2,764	2,402	2,059		
	OUTPUT TORQUE (Nm)	848	650	579	532	446	394	358	312	271	233		
	EFFICIENCY (%)	53.3	63.4	66.6	68.6	72.2	74.3	75.8	77.8	79.5	81.2		
31 1/2	OUTPUT TORQUE (in lb)	8,044	6,142	5,454	5,003	4,179	3,687	3,343	2,908	2,521	2,155		
	OUTPUT TORQUE (Nm)	909	694	616	565	472	417	378	329	285	243		
	EFFICIENCY (%)	47.7	58.1	61.4	63.5	67.4	69.8	71.5	73.6	75.6	77.5		
38	OUTPUT TORQUE (in lb)	7,475	5,596	4,930	4,498	3,719	3,260	2,942	2,544	2,193	1,865		
	OUTPUT TORQUE (Nm)	845	632	557	508	420	368	332	287	248	211		
	EFFICIENCY (%)	40.3	50.9	54.4	56.7	61.0	63.5	65.4	67.8	70.0	72.2		
47	OUTPUT TORQUE (in lb)	8,017	5,977	5,252	4,782	3,936	3,440	3,098	2,670	2,294	1,945		
	OUTPUT TORQUE (Nm)	906	675	593	540	445	389	350	302	259	220		
	EFFICIENCY (%)	35.4	45.7	49.2	51.5	55.6	58.5	60.5	63.0	65.4	67.8		
58	OUTPUT TORQUE (in lb)	7,904	5,876	5,150	4,679	3,834	3,341	3,001	2,578	2,207	1,864		
	OUTPUT TORQUE (Nm)	893	664	582	529	433	377	339	291	249	211		
	EFFICIENCY (%)	31.2	40.9	44.3	46.6	50.9	53.7	55.6	58.3	60.8	63.3		
71	OUTPUT TORQUE (in lb)	7,806	5,777	5,046	4,572	3,742	3,232	2,894	2,475	2,110	1,774		
	OUTPUT TORQUE (Nm)	882	653	570	517	423	365	327	280	238	200		
	EFFICIENCY (%)	27.4	36.4	39.7	41.9	46.1	48.8	50.9	53.5	56.1	58.7		
87	OUTPUT TORQUE (in lb)	7,720	5,676	4,934	4,454	3,599	3,106	2,770	2,355	1,997	1,669		
	OUTPUT TORQUE (Nm)	872	641	557	503	407	351	313	266	226	189		
	EFFICIENCY (%)	23.8	32.1	35.1	37.2	41.3	44.0	46.0	48.7	51.2	53.9		
106	OUTPUT TORQUE (in lb)	7,651	5,575	4,816	4,327	3,462	2,967	2,633	2,223	1,872	1,553		
	OUTPUT TORQUE (Nm)	864	630	544	489	391	335	297	251	212	175		
	EFFICIENCY (%)	20.5	28.1	30.9	32.9	36.8	39.3	41.2	43.9	46.4	49.1		

The data in the chart above represents theoretical performance values for a given size and ratio range at various speeds. These values are not intended to represent actual gear sets that Spiroid maintains in stock. While Spiroid does maintain an inventory of cutting tools, our customer's specific applications will determine whether 'Stock' or 'Custom' cutting tools are appropriate. For more information on this, please see our 'Inquiry-to-Quote' Process.

