

HELICON 11.250" 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 1/10	OUTPUT TORQUE (in lb)												
	OUTPUT TORQUE (Nm)												
	EFFICIENCY (%)												
6 1/8	OUTPUT TORQUE (in lb)												
	OUTPUT TORQUE (Nm)												
	EFFICIENCY (%)												
8 1/6	OUTPUT TORQUE (in lb)	22,036	17,180	15,340	14,120	11,875	10,526	9,579	8,374	7,297	6,274		
	OUTPUT TORQUE (Nm)	2,490	1,941	1,733	1,595	1,342	1,189	1,082	946	824	709		
	EFFICIENCY (%)	84.4	89.9	91.2	92.0	93.3	94.0	94.4	95.0	95.5	95.9		
10 1/5	OUTPUT TORQUE (in lb)	24,666	18,841	16,723	15,337	12,815	11,316	10,270	8,948	7,773	6,664		
	OUTPUT TORQUE (Nm)	2,787	2,129	1,889	1,733	1,448	1,279	1,160	1,011	878	753		
	EFFICIENCY (%)	80.7	87.2	88.9	89.8	91.4	92.3	92.8	93.6	94.2	94.7		
12 1/4	OUTPUT TORQUE (in lb)	31,741	23,777	20,975	19,160	15,895	13,976	12,648	10,979	9,504	8,122		
	OUTPUT TORQUE (Nm)	3,586	2,686	2,370	2,165	1,796	1,579	1,429	1,240	1,074	918		
	EFFICIENCY (%)	76.8	84.4	86.3	87.5	89.4	90.4	91.1	92.0	92.7	93.4		
14 1/4	OUTPUT TORQUE (in lb)	34,722	25,799	22,699	20,699	17,119	15,024	13,578	11,766		8,678		
	OUTPUT TORQUE (Nm)	3,923	2,915	2,565	2,339	1,934	1,697	1,534	1,329	1,149	980		
	EFFICIENCY (%)	73.5	81.9	84.1	85.4	87.5	88.8	89.6	90.6	91.4	92.2		
17 1/3	OUTPUT TORQUE (in lb)	34,883	25,495	22,307	20,270	16,655	14,560	13,122	11,331	9,763	8,304		
	OUTPUT TORQUE (Nm)	3,941	2,881	2,520	2,290	1,882	1,645	1,483	1,280	1,103	938		
	EFFICIENCY (%)	67.9	77.6	80.2	81.7	84.3	85.8	86.8	88.0	89.1	90.1		
21 1/3	OUTPUT TORQUE (in lb)	51,188	36,980	32,221	29,196	23,865	20,797	18,701	16,101				
	OUTPUT TORQUE (Nm)	5,783	4,178	3,640	3,299	2,696	2,350	2,113	1,819	1,563	1,326		
	EFFICIENCY (%)	62.4	73.2	76.1	77.9	81.0	82.7	83.8	85.3	86.6	87.8		
25 1/2	OUTPUT TORQUE (in lb)	51,211	36,317	31,438	28,365	23,006	19,955	17,885	15,333				
	OUTPUT TORQUE (Nm)	5,786	4,103	3,552	3,205	2,599	2,255	2,021	1,732	1,483	1,253		
	EFFICIENCY (%)	55.9	67.8	71.1	73.2	76.7	78.7	80.1	81.8	83.3	84.7		
31 1/2	OUTPUT TORQUE (in lb)	50,677	35,819	30,948	27,884	22,551	19,522	17,471	14,949				
	OUTPUT TORQUE (Nm)	5,726	4,047	3,497	3,150	2,548	2,206	1,974	1,689	1,443	1,217		
	EFFICIENCY (%)	50.9	63.1	66.7	68.9	72.7	75.0	76.5	78.4	80.1	81.8		
38 1/2	OUTPUT TORQUE (in lb)	50,033	35,206	30,342	27,288	21,987	18,987	16,961	14,476				
	OUTPUT TORQUE (Nm)	5,653	3,978	3,428	3,083	2,484	2,145	1,916	1,636	1,394	1,173		
	EFFICIENCY (%)	46.0	58.4	62.1	64.4	68.6	71.0	72.7	74.8	76.7	78.6		
47	OUTPUT TORQUE (in lb)	50,623	34,622	29,522	26,365	20,972	17,971	15,967	13,533		9,584		
	OUTPUT TORQUE (Nm)	5,720	3,912	3,336	2,979	2,370	2,030	1,804	1,529	1,295	1,083		
	EFFICIENCY (%)	38.2	50.8	54.7	57.2	61.8	64.4	66.3	68.8	70.9	73.1		
58	OUTPUT TORQUE (in lb)	49,837	33,940	28,846	25,697	20,335	17,365	15,387	12,994		9,137		
	OUTPUT TORQUE (Nm)	5,631	3,835	3,259	2,903	2,298	1,962	1,738	1,468	1,239	1,032		
	EFFICIENCY (%)	33.9	46.0	49.9	52.4	57.0	59.8	61.8	64.4	66.7	69.0		
71	OUTPUT TORQUE (in lb)	49,151	33,247	28,129	24,974	19,628	16,685	14,735	12,387		8,632		
	OUTPUT TORQUE (Nm)	5,553	3,756	3,178	2,822	2,218	1,885	1,665	1,400	1,176	975		
	EFFICIENCY (%)	29.9	41.3	45.2	47.7	52.3	55.2	57.2	59.9	62.4	64.8		
87	OUTPUT TORQUE (in lb)	48,539	32,513	27,338	24,162	18,817	15,901	13,981	11,684	9,761	8,050		
	OUTPUT TORQUE (Nm)	5,484	3,673	3,089	2,730	2,126	1,797	1,580	1,320	1,103	910		
	EFFICIENCY (%)	26.1	36.7	40.4	42.9	47.4	50.3	52.4	55.1	57.7	60.2		
106	OUTPUT TORQUE (in lb)	48,030	31,755	26,489	23,277	17,920	15,032	13,145	10,905	9,048	7,410		
	OUTPUT TORQUE (Nm)	5,427	3,588	2,993	2,630	2,025	1,698	1,485	1,232	1,022	837		
	EFFICIENCY (%)	22.6	32.5	35.9	38.3	42.7	45.5	47.6	50.3	52.9	55.6		

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.

