HELICON 15.375" 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)	73,097	56,822	48,043	42,035	31,264	25,273	21,379	16,850	13,231			
	OUTPUT TORQUE (Nm)	8,259	6,420	5,428	4,749	3,532	2,855	2,416	1,904	1,495			
	EFFICIENCY (%)	87.8	91.8	93.1	93.8	95.1	95.9	96.3	96.8	97.3			
10 1/6	OUTPUT TORQUE (in lb)	60,298	44,853	39,409	35,899	29,628	25,971	23,451	20,302	17,535			
	OUTPUT TORQUE (Nm)	6,813	5,068	4,453	4,056	3,348	2,934	2,650	2,294	1,981			
	EFFICIENCY (%)	82.3	88.8	90.3	91.2	92.6	93.4	93.9	94.5	95.0			
12 1/5	OUTPUT TORQUE (in lb)	77,420	56,454	49,307	44,748	36,688	32,036	28,852	24,893	21,436			
	OUTPUT TORQUE (Nm)	8,747	6,378	5,571	5,056	4,145	3,620	3,260	2,813	2,422			
	EFFICIENCY (%)	78.9	86.4	88.2	89.3	91.0	91.9	92.5	93.2	93.9			
14 1/4	OUTPUT TORQUE (in lb)	84,796	60,705	52,718	47,672	38,837	33,787	30,350	26,102	22,412			
	OUTPUT TORQUE (Nm)	9,581	6,859	5,956	5,386	4,388	3,817	3,429	2,949	2,532			
	EFFICIENCY (%)	74.8	83.6	85.7	86.9	88.9	90.0	90.8	91.7	92.4			
17 1/4	OUTPUT TORQUE (in lb)	86,117	61,180	52,998	47,847	38,864	33,749	30,276	25,994	22,284			
	OUTPUT TORQUE (Nm)	9,730	6,912	5,988	5,406	4,391	3,813	3,421	2,937	2,518			
	EFFICIENCY (%)	70.8	80.5	82.9	84.3	86.7	88.0	88.9	89.9	90.8			
21 1/3	OUTPUT TORQUE (in lb)	126,572	87,749	75,402	67,722	54,502	47,043	42,070	35,948	30,686			
	OUTPUT TORQUE (Nm)	14,301	9,914	8,519	7,652	6,158	5,315	4,753	4,062	3,467			
	EFFICIENCY (%)	64.0	75.4	78.3	80.0	82.9	84.5	85.6	86.9	88.1			
25 1/3	OUTPUT TORQUE (in lb)	126,660	87,400	74,956	67,231	53,966	46,532	41,537	35,435	30,201			
	OUTPUT TORQUE (Nm)	14,311	9,875	8,469	7,596	6,097	5,257	4,693	4,004	3,412			
	EFFICIENCY (%)	59.9	71.9	75.1	77.0	80.2	82.0	83.2	84.7	86.0			
31 1/2	OUTPUT TORQUE (in lb)	126,064	85,221	72,557	64,771	51,546	44,218	39,329	33,397	28,345			
	OUTPUT TORQUE (Nm)	14,243	9,629	8,198	7,318	5,824	4,996	4,444	3,773	3,203			
	EFFICIENCY (%)	52.6	65.7	69.3	71.5	75.2	77.3	78.8	80.6	82.2			
38 1/2	OUTPUT TORQUE (in lb)	124,540	83,756	71,114	63,358	50,224	42,975	38,151	32,314	27,359			
	OUTPUT TORQUE (Nm)	14,071	9,463	8,035	7,158	5,675	4,856	4,310	3,651	3,091			
	EFFICIENCY (%)	47.7	61.1	64.9	67.2	71.3	73.6	75.2	77.2	79.0			
47 1/2	OUTPUT TORQUE (in lb)	122,745	81,961	69,326	61,599	48,569	41,416	36,674	30,957	26,126			
	OUTPUT TORQUE (Nm)	13,868	9,260	7,833	6,960	5,488	4,679	4,144	3,498	2,952			
	EFFICIENCY (%)	42.6	56.0	59.9	62.4	66.8	69.3	71.1	73.3	75.3			
58	OUTPUT TORQUE (in lb)	124,121	80,360	67,189	59,252	46,087	38,983	34,326	28,769	24,122			
	OUTPUT TORQUE (Nm)	14,024	9,079	7,591	6,695	5,207	4,404	3,878	3,250	2,725			
	EFFICIENCY (%)	35.3	48.7	52.8	55.4	60.1	62.9	64.8	67.3	69.5			
71	OUTPUT TORQUE (in lb)	122,351	78,561	65,353	57,423	44,341	37,331	32,758	27,328	22,813			
	OUTPUT TORQUE (Nm)	13,824	8,876	7,384	6,488	5,010	4,218	3,701	3,088	2,578			
	EFFICIENCY (%)	31.2	44.0	48.1	50.7	55.4	58.3	60.3	62.9	65.3			
87	OUTPUT TORQUE (in lb)	120,730	76,618	63,301	55,348	42,332	35,422	30,944	25,665	21,302			
	OUTPUT TORQUE (Nm)	13,641	8,657	7,152	6,253	4,783	4,002	3,496	2,900	2,407			
	EFFICIENCY (%)	27.3	39.3	43.3	45.9	50.6	53.5	55.6	58.3	60.8			
106	OUTPUT TORQUE (in lb)	119,347	74,578	61,077	53,073	40,108	33,309	28,939	23,825	19,643			
	OUTPUT TORQUE (Nm)	13,484	8,426	6,901	5,996	4,532	3,763	3,270	2,692	2,219			
	EFFICIENCY (%)	23.8	34.9	38.7	41.2	45.9	48.8	50.9	53.6	56.2			

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.

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