HELICON 18.000" 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 1/10	OUTPUT TORQUE (in lb)												
	OUTPUT TORQUE (Nm)												
	EFFICIENCY (%)												
6 1/8	OUTPUT TORQUE (in lb)												
	OUTPUT TORQUE (Nm)												
	EFFICIENCY (%)												
8 1/10	OUTPUT TORQUE (in lb)	113,000	85,316	71,033	61,509	44,915	35,945	30,209	23,633	18,446			
	OUTPUT TORQUE (Nm)	12,767	9,639	8,026	6,950	5,075	4,061	3,413	2,670	2,084			
	EFFICIENCY (%)	88.3	92.4	93.6	94.3	95.6	96.2	96.7	97.1	97.5			
10 1/6	OUTPUT TORQUE (in lb)	117,769	90,194	75,656	65,839	48,500	39,000	32,877	25,810	20,202			
	OUTPUT TORQUE (Nm)	13,306	10,191	8,548	7,439	5,480	4,406	3,715	2,916	2,283			
	EFFICIENCY (%)	85.1	90.2	91.7	92.5	94.2	95.1	95.6	96.2	96.7			
12 1/5	OUTPUT TORQUE (in lb)	120,591	86,283	74,862	67,652	55,052	47,862	42,976	36,943	31,709			
	OUTPUT TORQUE (Nm)	13,625	9,749	8,458	7,644	6,220	5,408	4,856	4,174	3,583			
	EFFICIENCY (%)	79.5	87.1	88.9	89.9	91.5	92.4	93.0	93.7	94.3			
14 1/4	OUTPUT TORQUE (in lb)	132,757	93,151	80,346	72,342	58,490	50,663	45,375	38,881	33,278			
	OUTPUT TORQUE (Nm)	15,000	10,525	9,078	8,174	6,608	5,724	5,127	4,393	3,760			
	EFFICIENCY (%)	75.5	84.4	86.4	87.6	89.6	90.6	93.1	92.2	92.9			
17 1/4	OUTPUT TORQUE (in lb)	135,421	94,254	81,089	72,889	58,754	50,800	45,438	38,869	33,216			
	OUTPUT TORQUE (Nm)	15,301	10,649	9,162	8,235	6,638	5,740	5,134	4,392	3,753			
	EFFICIENCY (%)	71.6	81.4	83.8	85.2	87.5	88.7	89.5	90.5	91.4			
21 1/3	OUTPUT TORQUE (in lb)	145,003	98,776	84,392	75,525	60,404	51,988	46,353	39,493	33,628			
	OUTPUT TORQUE (Nm)	16,383	11,160	9,535	8,533	6,825	5,874	5,237	4,462	3,799			
	EFFICIENCY (%)	65.1	76.6	79.4	81.1	83.9	85.4	86.5	87.7	88.8			
25 1/3	OUTPUT TORQUE (in lb)	200,134	135,016	114,948	102,632	81,736	70,165	62,447	53,079	45,098			
	OUTPUT TORQUE (Nm)	22,612	15,255	12,987	11,596	9,235	7,928	7,056	5,997	5,095			
	EFFICIENCY (%)	60.8	73.1	76.3	78.1	81.3	83.0	84.2	85.6	86.8			
31 1/2	OUTPUT TORQUE (in lb)	199,521	131,661	111,240	98,835	78,021	66,630	59,085	49,990	42,297			
	OUTPUT TORQUE (Nm)	22,543	14,876	12,568	11,167	8,815	7,528	6,676	5,648	4,779			
	EFFICIENCY (%)	53.4	67.0	70.6	72.8	76.4	78.5	79.9	81.6	83.1			
38 1/2	OUTPUT TORQUE (in lb)	197,159	129,396	109,017	96,665	76,006	64,742	57,303	48,360	40,819			
	OUTPUT TORQUE (Nm)	22,276	14,620	12,317	10,922	8,588	7,315	6,474	5,464	4,612			
	EFFICIENCY (%)	48.6	62.4	66.3	68.6	72.6	74.9	76.5	78.4	80.1			
47 1/2	OUTPUT TORQUE (in lb)	194,339	126,561	106,205	93,908	73,435	62,334	55,030	46,284	38,940			
	OUTPUT TORQUE (Nm)	21,957	14,299	12,000	10,610	8,297	7,043	6,218	5,229	4,400			
	EFFICIENCY (%)	43.4	57.4	61.4	63.9	68.2	70.7	72.4	74.6	76.5			
58	OUTPUT TORQUE (in lb)	196,668	123,851	102,677	90,083	69,470	58,490	51,346	42,877	35,843			
	OUTPUT TORQUE (Nm)	22,221	13,993	11,601	10,178	7,849	6,608	5,801	4,844	4,050			
	EFFICIENCY (%)	36.0	50.1	54.3	56.9	61.6	64.4	66.3	68.7	70.9			
71	OUTPUT TORQUE (in lb)	193,720	120,936	99,734	87,173	66,731	55,920	48,920	40,663	33,843			
	OUTPUT TORQUE (Nm)	21,887	13,664	11,268	9,849	7,540	6,318	5,527	4,594	3,824			
	EFFICIENCY (%)	31.9	45.4	49.6	52.2	57.0	59.9	61.9	64.5	66.8			
87	OUTPUT TORQUE (in lb)	191,080	117,777	96,432	83,860	63,570	52,943	46,108	38,099	31,532			
	OUTPUT TORQUE (Nm)	21,589	13,307	10,895	9,475	7,182	5,982	5,210	4,305	3,563			
	EFFICIENCY (%)	28.0	40.7	44.8	47.4	52.2	55.2	57.2	59.9	62.4			
106	OUTPUT TORQUE (in lb)	188,818	114,438	92,839	80,221	60,071	49,649	43,002	35,277	28,999			
	OUTPUT TORQUE (Nm)	21,334	12,930	10,489	9,064	6,787	5,610	4,859	3,986	3,276			
	EFFICIENCY (%)	24.4	36.2	40.1	42.7	47.5	50.4	52.5	55.2	57.8			

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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