

SPIROID 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 1/5	OUTPUT TORQUE (in lb)												
	OUTPUT TORQUE (Nm)												
	EFFICIENCY (%)												
10 1/6	OUTPUT TORQUE (in lb)	63,804	45,587	39,481	35,634	28,930	25,118	22,534	19,350	16,594			
	OUTPUT TORQUE (Nm)	7,209	5,151	4,461	4,026	3,269	2,838	2,546	2,186	1,875			
	EFFICIENCY (%)	77.6	86.1	88.0	89.2	90.9	91.9	92.5	93.2	93.9			
12 1/5	OUTPUT TORQUE (in lb)	90,286	63,378	54,608	49,130	39,666	34,330	30,730	26,316	22,513			
	OUTPUT TORQUE (Nm)	10,201	7,161	6,170	5,551	4,482	3,879	3,472	2,973	2,544			
	EFFICIENCY (%)	74.1	83.8	86.0	87.2	89.3	90.4	91.1	92.0	92.7			
14 1/4	OUTPUT TORQUE (in lb)	94,355	65,413	56,150	50,399	40,523	34,989	31,269	26,722	22,818			
	OUTPUT TORQUE (Nm)	10,661	7,391	6,344	5,694	4,578	3,953	3,533	3,019	2,578			
	EFFICIENCY (%)	70.4	81.1	83.6	85.0	87.3	88.6	89.5	90.5	91.3			
17 1/4	OUTPUT TORQUE (in lb)	97,133	67,037	57,457	51,520	41,345	35,656	31,837	27,176	23,180			
	OUTPUT TORQUE (Nm)	10,975	7,574	6,492	5,821	4,671	4,029	3,597	3,070	2,619			
	EFFICIENCY (%)	66.5	78.0	80.8	82.5	85.1	86.6	87.5	88.7	89.7			
21 1/3	OUTPUT TORQUE (in lb)	137,187	92,778	78,991	70,529	56,177	48,235	42,938	36,511	31,036			
	OUTPUT TORQUE (Nm)	15,500	10,483	8,925	7,969	6,347	5,450	4,851	4,125	3,507			
	EFFICIENCY (%)	60.4	73.3	76.5	78.4	81.6	83.3	84.5	85.9	87.1			
25 1/3	OUTPUT TORQUE (in lb)	138,221	93,205	79,242	70,682	56,185	48,177	42,845	36,383	30,887			
	OUTPUT TORQUE (Nm)	15,617	10,531	8,953	7,986	6,348	5,443	4,841	4,111	3,490			
	EFFICIENCY (%)	56.5	70.0	73.4	75.5	79.0	80.9	82.2	83.7	85.1			
31 1/2	OUTPUT TORQUE (in lb)	138,406	91,595	77,357	68,705	54,191	46,255	41,003	34,675	29,328			
	OUTPUT TORQUE (Nm)	15,638	10,349	8,740	7,763	6,123	5,226	4,633	3,918	3,314			
	EFFICIENCY (%)	49.6	64.0	67.8	70.1	74.1	76.3	77.8	79.7	81.3			
38 1/2	OUTPUT TORQUE (in lb)	147,895	97,218	81,839	72,521	56,951	48,475	42,883	36,168	30,512			
	OUTPUT TORQUE (Nm)	16,710	10,984	9,247	8,194	6,435	5,477	4,845	4,086	3,447			
	EFFICIENCY (%)	44.7	59.2	63.3	65.8	70.0	72.5	74.1	76.2	78.1			
47 1/2	OUTPUT TORQUE (in lb)	147,093	96,095	80,610	71,251	55,674	47,236	41,688	35,048	29,476			
	OUTPUT TORQUE (Nm)	16,619	10,857	9,108	8,050	6,290	5,337	4,710	3,960	3,330			
	EFFICIENCY (%)	39.9	54.3	58.5	61.1	65.6	68.3	70.1	72.4	74.4			
58	OUTPUT TORQUE (in lb)	158,991	100,598	83,407	73,172	56,415	47,491	41,685	34,805	29,091			
	OUTPUT TORQUE (Nm)	17,964	11,366	9,424	8,267	6,374	5,366	4,710	3,932	3,287			
	EFFICIENCY (%)	33.0	47.2	51.5	54.2	59.1	61.9	63.9	66.4	68.7			
71	OUTPUT TORQUE (in lb)	156,216	98,066	80,900	70,716	54,134	45,363	39,683	32,985	27,452			
	OUTPUT TORQUE (Nm)	17,650	11,080	9,140	7,990	6,116	5,125	4,484	3,727	3,102			
	EFFICIENCY (%)	29.2	42.7	46.9	49.6	54.5	57.5	59.5	62.2	64.6			
87	OUTPUT TORQUE (in lb)	153,806	95,412	78,165	67,991	51,555	42,941	37,401	30,908	25,583			
	OUTPUT TORQUE (Nm)	17,378	10,780	8,831	7,682	5,825	4,852	4,226	3,492	2,890			
	EFFICIENCY (%)	25.6	38.2	42.3	45.0	49.9	52.8	54.9	57.7	60.2			
106	OUTPUT TORQUE (in lb)	151,832	92,662	75,227	65,024	48,714	40,272	34,886	28,625	23,535			
	OUTPUT TORQUE (Nm)	17,155	10,469	8,500	7,347	5,504	4,550	3,942	3,234	2,659			
	EFFICIENCY (%)	22.3	34.0	37.9	40.4	45.2	48.2	50.3	53.1	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.

