

SPIROID 9.750" 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 1/5	OUTPUT TORQUE (in lb)	21,475	16,095	14,182	12,943	10,718	9,414	8,512	7,382	6,386	5,453		
	OUTPUT TORQUE (Nm)	2,426	1,818	1,602	1,462	1,211	1,064	962	834	722	616		
	EFFICIENCY (%)	75.8	84.1	86.1	87.3	89.2	90.3	91.0	91.9	92.7	93.4		
12 1/4	OUTPUT TORQUE (in lb)	23,151	17,145	15,051	13,704	11,301	9,901	8,937	7,735	6,676	5,690		
	OUTPUT TORQUE (Nm)	2,616	1,937	1,701	1,548	1,277	1,119	1,010	874	754	643		
	EFFICIENCY (%)	71.8	81.1	83.4	84.8	87.1	88.3	89.2	90.2	91.1	92.0		
14 2/3	OUTPUT TORQUE (in lb)	24,070	17,587	15,372	13,957	11,451	10,002	9,010	7,775	6,695	5,693		
	OUTPUT TORQUE (Nm)	2,720	1,987	1,737	1,577	1,294	1,130	1,018	878	756	643		
	EFFICIENCY (%)	67.0	77.4	80.0	81.6	84.3	85.8	86.8	88.0	89.1	90.1		
17 1/3	OUTPUT TORQUE (in lb)	25,878	18,824	16,426	14,898	12,198	10,641	9,576	8,253	7,099	6,029		
	OUTPUT TORQUE (Nm)	2,924	2,127	1,856	1,683	1,378	1,202	1,082	932	802	681		
	EFFICIENCY (%)	63.2	74.2	77.2	78.9	81.9	83.6	84.7	86.1	87.3	88.5		
21 1/2	OUTPUT TORQUE (in lb)	33,949	24,209	20,979	18,941	15,382	13,352	11,974	10,275	8,803	7,447		
	OUTPUT TORQUE (Nm)	3,836	2,735	2,370	2,140	1,738	1,509	1,353	1,161	995	841		
	EFFICIENCY (%)	56.4	68.7	72.0	74.1	77.6	79.5	80.9	82.6	84.0	85.4		
25 1/2	OUTPUT TORQUE (in lb)	34,080	24,282	21,027	18,973	15,386	13,344	11,958	10,250	8,772	7,413		
	OUTPUT TORQUE (Nm)	3,851	2,743	2,376	2,144	1,738	1,508	1,351	1,158	991	838		
	EFFICIENCY (%)	52.6	65.2	68.8	70.9	74.7	76.8	78.3	80.1	81.8	83.3		
31 1/2	OUTPUT TORQUE (in lb)	36,391	25,808	22,295	20,083	16,231	14,045	12,565	10,746	9,177	7,738		
	OUTPUT TORQUE (Nm)	4,112	2,916	2,519	2,269	1,834	1,587	1,420	1,214	1,037	874		
	EFFICIENCY (%)	47.5	60.3	64.1	66.4	70.5	72.8	74.5	76.5	78.4	80.1		
38 1/2	OUTPUT TORQUE (in lb)	36,241	25,618	22,084	19,862	16,000	13,814	12,337	10,527	8,969	7,545		
	OUTPUT TORQUE (Nm)	4,095	2,894	2,495	2,244	1,808	1,561	1,394	1,189	1,013	852		
	EFFICIENCY (%)	42.9	55.7	59.5	62.0	66.3	68.9	70.6	72.9	74.9	76.9		
47	OUTPUT TORQUE (in lb)	39,358	27,102	23,132	20,667	16,449	14,099	12,528	10,620	8,995	7,523		
	OUTPUT TORQUE (Nm)	4,447	3,062	2,614	2,335	1,858	1,593	1,415	1,200	1,016	850		
	EFFICIENCY (%)	35.6	48.4	52.4	55.0	59.6	62.4	64.4	66.9	69.2	71.4		
58	OUTPUT TORQUE (in lb)	38,620	26,494	22,542	20,092	15,911	13,592	12,046	10,176	8,589	7,158		
	OUTPUT TORQUE (Nm)	4,363	2,993	2,547	2,270	1,798	1,536	1,361	1,150	970	809		
	EFFICIENCY (%)	31.5	43.7	47.7	50.2	55.0	57.8	59.9	62.5	64.9	67.3		
71	OUTPUT TORQUE (in lb)	40,770	27,727	23,469	20,840	16,379	13,923	12,295	10,335	8,683	7,202		
	OUTPUT TORQUE (Nm)	4,606	3,133	2,652	2,355	1,851	1,573	1,389	1,168	981	814		
	EFFICIENCY (%)	27.5	39.0	42.8	45.4	50.1	53.0	55.1	57.8	60.4	62.9		
87	OUTPUT TORQUE (in lb)	40,198	27,092	22,795	20,153	15,700	13,628	11,667	9,751	8,147	6,719		
	OUTPUT TORQUE (Nm)	4,542	3,061	2,575	2,277	1,774	1,540	1,318	1,102	920	759		
	EFFICIENCY (%)	24.0	34.6	38.3	40.8	45.4	48.3	50.4	53.1	55.8	58.4		
106	OUTPUT TORQUE (in lb)	39,732	26,445	22,078	19,408	14,950	12,543	10,970	9,103	7,555	6,188		
	OUTPUT TORQUE (Nm)	4,489	2,988	2,494	2,193	1,689	1,417	1,239	1,029	854	699		
	EFFICIENCY (%)	20.9	30.6	34.0	36.4	40.8	43.6	45.7	48.5	51.1	53.8		

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.

