

SPIROID 8.250" 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 1/5	OUTPUT TORQUE (in lb)												
	OUTPUT TORQUE (Nm)												
	EFFICIENCY (%)												
10 1/4	OUTPUT TORQUE (in lb)	13,459	10,200	9,027	8,263	6,879	6,061	5,493	4,777	4,143	3,546		
	OUTPUT TORQUE (Nm)	1,521	1,152	1,020	934	777	685	621	540	468	401		
	EFFICIENCY (%)	74.3	82.7	84.8	86.0	88.2	89.3	90.1	91.1	91.9	92.7		
12 1/4	OUTPUT TORQUE (in lb)	14,309	10,809	9,557	8,742	7,271	6,402	5,799	5,039	4,367	3,736		
	OUTPUT TORQUE (Nm)	1,617	1,221	1,080	988	822	723	655	569	493	422		
	EFFICIENCY (%)	71.2	80.2	82.5	83.9	86.3	87.6	88.5	89.6	90.6	91.4		
14 2/3	OUTPUT TORQUE (in lb)	14,826	11,059	9,737	8,883	7,351	6,453	5,833	5,055	4,370	3,729		
	OUTPUT TORQUE (Nm)	1,675	1,249	1,100	1,004	831	729	659	571	494	421		
	EFFICIENCY (%)	66.3	76.4	79.1	80.7	83.4	85.0	86.0	87.3	88.4	89.5		
17 1/3	OUTPUT TORQUE (in lb)	15,906	11,816	10,388	9,467	7,818	6,855	6,190	5,358	4,626	3,943		
	OUTPUT TORQUE (Nm)	1,797	1,335	1,174	1,070	883	775	699	605	523	445		
	EFFICIENCY (%)	62.5	73.2	76.1	77.9	80.9	82.6	83.8	85.3	86.6	87.8		
21 1/2	OUTPUT TORQUE (in lb)	20,811	15,177	13,254	12,027	9,853	8,597	7,737	6,667	5,734	4,868		
	OUTPUT TORQUE (Nm)	2,351	1,715	1,498	1,359	1,113	971	874	753	648	550		
	EFFICIENCY (%)	55.7	67.5	70.8	72.9	76.4	78.5	79.8	81.6	83.1	84.6		
25 1/2	OUTPUT TORQUE (in lb)	20,873	15,211	13,275	12,038	9,849	8,586	7,721	6,647	5,710	4,843		
	OUTPUT TORQUE (Nm)	2,358	1,719	1,500	1,360	1,113	970	872	751	645	547		
	EFFICIENCY (%)	51.9	64.0	67.5	69.6	73.4	75.6	77.1	79.0	80.7	82.4		
31 1/2	OUTPUT TORQUE (in lb)	22,274	16,162	14,073	12,741	10,390	9,037	8,114	6,970	5,974	5,055		
	OUTPUT TORQUE (Nm)	2,517	1,826	1,590	1,440	1,174	1,021	917	788	675	571		
	EFFICIENCY (%)	46.7	59.0	62.7	65.0	69.1	71.5	73.2	75.3	77.2	79.0		
38	OUTPUT TORQUE (in lb)	22,924	16,254	14,031	12,631	10,192	8,809	7,873	6,723	5,733	4,826		
	OUTPUT TORQUE (Nm)	2,590	1,836	1,585	1,427	1,152	995	890	760	648	545		
	EFFICIENCY (%)	39.5	52.0	55.9	58.4	62.9	65.6	67.4	69.8	72.0	74.1		
47	OUTPUT TORQUE (in lb)	24,006	16,953	14,593	13,109	10,532	9,076	8,093	6,891	5,859	4,917		
	OUTPUT TORQUE (Nm)	2,712	1,915	1,649	1,481	1,190	1,025	914	779	662	556		
	EFFICIENCY (%)	34.9	47.0	50.9	53.5	58.1	60.9	62.8	65.4	67.7	70.0		
58	OUTPUT TORQUE (in lb)	23,569	16,590	14,239	12,762	10,204	8,764	7,796	6,615	5,604	4,687		
	OUTPUT TORQUE (Nm)	2,663	1,874	1,609	1,442	1,153	990	881	747	633	530		
	EFFICIENCY (%)	30.9	42.4	46.2	48.7	53.4	56.2	58.3	61.0	63.4	65.9		
71	OUTPUT TORQUE (in lb)	24,893	17,384	14,849	13,261	10,525	8,997	7,974	6,733	5,678	4,726		
	OUTPUT TORQUE (Nm)	2,813	1,964	1,678	1,498	1,189	1,017	901	761	642	534		
	EFFICIENCY (%)	26.9	37.7	41.4	43.9	48.5	51.4	53.4	56.2	58.8	61.3		
87	OUTPUT TORQUE (in lb)	24,556	17,010	14,448	12,849	10,112	8,594	7,585	6,368	5,341	4,420		
	OUTPUT TORQUE (Nm)	2,774	1,922	1,632	1,452	1,143	971	857	719	603	499		
	EFFICIENCY (%)	23.5	33.4	36.9	39.3	43.8	46.6	48.7	51.5	54.1	56.7		
106	OUTPUT TORQUE (in lb)	24,282	16,631	14,023	12,404	9,655	8,148	7,153	5,963	4,967	4,082		
	OUTPUT TORQUE (Nm)	2,743	1,879	1,584	1,401	1,091	921	808	674	561	461		
	EFFICIENCY (%)	20.4	29.4	32.7	34.9	39.2	42.0	44.1	46.8	49.4	52.1		

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.

