

SPIROID 6.750" 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 1/4	OUTPUT TORQUE (in lb)	7,970	6,191	5,530	5,092	4,287	3,803	3,462	3,029	2,641	2,272		
	OUTPUT TORQUE (Nm)	900	699	625	575	484	430	391	342	298	257		
	EFFICIENCY (%)	73.9	81.9	84.0	85.3	87.4	88.6	89.5	90.5	91.3	92.2		
12 1/4	OUTPUT TORQUE (in lb)	8,485	6,568	5,861	5,393	4,535	4,019	3,657	3,197	2,785	2,394		
	OUTPUT TORQUE (Nm)	959	742	662	609	512	454	413	361	315	270		
	EFFICIENCY (%)	70.8	79.3	81.7	83.1	85.5	86.8	87.8	88.9	89.9	90.9		
14 2/3	OUTPUT TORQUE (in lb)	8,782	6,722	5,974	5,484	4,589	4,056	3,683	3,211	2,790	2,393		
	OUTPUT TORQUE (Nm)	992	759	675	620	518	458	416	363	315	270		
	EFFICIENCY (%)	65.9	75.4	78.1	79.7	82.5	84.1	85.2	86.5	87.7	88.8		
17 1/3	OUTPUT TORQUE (in lb)	9,446	7,200	6,389	5,859	4,892	4,318	3,917	3,411	2,960	2,535		
	OUTPUT TORQUE (Nm)	1,067	813	722	662	553	488	443	385	334	286		
	EFFICIENCY (%)	62.0	72.1	75.0	76.8	79.8	81.6	82.8	84.3	85.7	87.0		
21 1/2	OUTPUT TORQUE (in lb)	12,333	9,251	8,160	7,452	6,177	5,427	4,907	4,254	3,678	3,138		
	OUTPUT TORQUE (Nm)	1,393	1,045	922	842	698	613	554	481	416	355		
	EFFICIENCY (%)	55.3	66.4	69.7	71.7	75.3	77.3	78.7	80.5	82.1	83.7		
25 1/2	OUTPUT TORQUE (in lb)	12,399	9,289	8,187	7,472	6,184	5,428	4,904	4,247	3,667	3,125		
	OUTPUT TORQUE (Nm)	1,401	1,050	925	844	699	613	554	480	414	353		
	EFFICIENCY (%)	51.4	62.8	66.2	68.3	72.1	74.3	75.9	77.9	79.6	81.3		
31 1/2	OUTPUT TORQUE (in lb)	13,258	9,892	8,700	7,928	6,540	5,728	5,166	4,464	3,846	3,270		
	OUTPUT TORQUE (Nm)	1,498	1,118	983	896	739	647	584	504	435	369		
	EFFICIENCY (%)	46.2	57.7	61.3	63.5	67.6	70.1	71.8	74.0	75.9	77.8		
38	OUTPUT TORQUE (in lb)	13,626	9,966	8,697	7,884	6,441	5,606	5,035	4,326	3,708	3,137		
	OUTPUT TORQUE (Nm)	1,540	1,126	983	891	728	633	569	489	419	354		
	EFFICIENCY (%)	39.1	50.8	54.6	57.0	61.4	64.1	66.0	68.4	70.7	72.8		
47	OUTPUT TORQUE (in lb)	14,290	10,412	9,061	8,197	6,668	5,787	5,186	4,442	3,796	3,201		
	OUTPUT TORQUE (Nm)	1,615	1,176	1,024	926	753	654	586	502	429	362		
	EFFICIENCY (%)	34.5	45.8	49.5	52.0	56.5	59.3	61.3	63.9	66.2	68.6		
58	OUTPUT TORQUE (in lb)	14,046	10,200	8,852	7,990	6,469	5,596	5,002	4,269	3,636	3,055		
	OUTPUT TORQUE (Nm)	1,587	1,152	1,000	903	731	632	565	482	411	345		
	EFFICIENCY (%)	30.4	41.1	44.8	47.2	51.7	54.5	56.6	59.3	61.8	64.3		
71	OUTPUT TORQUE (in lb)	13,845	10,001	8,646	7,780	6,259	5,391	4,803	4,082	3,461	2,895		
	OUTPUT TORQUE (Nm)	1,564	1,130	977	879	707	609	543	461	391	327		
	EFFICIENCY (%)	26.7	36.7	40.2	42.5	47.0	49.8	51.9	54.6	57.2	59.8		
87	OUTPUT TORQUE (in lb)	14,672	10,499	9,022	8,083	6,444	5,517	4,893	4,133	3,484	2,896		
	OUTPUT TORQUE (Nm)	1,658	1,186	1,019	913	728	623	553	467	394	327		
	EFFICIENCY (%)	23.0	32.2	35.5	37.7	42.1	44.8	46.9	49.6	52.3	54.9		
106	OUTPUT TORQUE (in lb)	14,520	10,286	8,779	7,825	6,173	5,248	4,630	3,882	3,251	2,864		
	OUTPUT TORQUE (Nm)	1,641	1,162	992	884	697	593	523	439	367	324		
	EFFICIENCY (%)	19.9	28.3	31.3	33.4	37.6	40.2	42.2	44.9	47.6	50.2		

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.

