

SPIROID 13.125" 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)	40,938	29,659	25,819	23,380	19,092	16,632	14,955	12,879	11,072	9,401		
	OUTPUT TORQUE (Nm)	4,625	3,351	2,917	2,642	2,157	1,879	1,690	1,455	1,251	1,062		
	EFFICIENCY (%)	76.4	85.1	87.1	88.2	90.1	91.1	91.8	92.6	93.3	94.0		
12 1/4	OUTPUT TORQUE (in lb)	54,372	38,756	33,573	30,308	24,617	21,379	19,181	16,473	14,128	11,968		
	OUTPUT TORQUE (Nm)	6,143	4,379	3,793	3,424	2,781	2,416	2,167	1,861	1,596	1,352		
	EFFICIENCY (%)	72.9	82.5	84.8	86.2	88.3	89.5	90.3	91.2	92.0	92.8		
14 1/4	OUTPUT TORQUE (in lb)	59,816	42,398	36,664	33,062	26,799	23,245	20,838	17,876	15,315	12,961		
	OUTPUT TORQUE (Nm)	6,758	4,790	4,142	3,736	3,028	2,626	2,354	2,020	1,730	1,464		
	EFFICIENCY (%)	69.8	80.2	82.7	84.2	86.6	87.9	88.8	89.9	90.8	91.7		
17 1/3	OUTPUT TORQUE (in lb)	61,398	42,896	36,922	33,196	26,766	23,144	20,702	17,710	15,135	12,777		
	OUTPUT TORQUE (Nm)	6,937	4,847	4,172	3,751	3,024	2,615	2,339	2,001	1,710	1,444		
	EFFICIENCY (%)	64.5	76.1	79.0	80.8	83.6	85.2	86.2	87.5	88.6	89.6		
21 1/3	OUTPUT TORQUE (in lb)	81,040	56,274	48,322	43,376	34,866	30,091	26,879	22,952	19,580	16,502		
	OUTPUT TORQUE (Nm)	9,156	6,358	5,460	4,901	3,939	3,400	3,037	2,593	2,212	1,864		
	EFFICIENCY (%)	60.0	72.5	75.7	77.6	80.8	82.6	83.8	85.2	86.5	87.7		
25 1/2	OUTPUT TORQUE (in lb)	81,420	55,552	47,416	42,398	33,845	29,090	25,911	22,046	18,746	15,749		
	OUTPUT TORQUE (Nm)	9,199	6,277	5,357	4,790	3,824	3,287	2,928	2,491	2,118	1,779		
	EFFICIENCY (%)	54.0	67.5	71.0	73.2	76.8	78.9	80.3	82.0	83.5	84.9		
31 1/2	OUTPUT TORQUE (in lb)	87,055	59,083	50,301	44,896	35,712	30,625	27,233	23,118	19,615	16,443		
	OUTPUT TORQUE (Nm)	9,836	6,675	5,683	5,073	4,035	3,460	3,077	2,612	2,216	1,858		
	EFFICIENCY (%)	48.8	62.7	66.5	68.9	72.9	75.1	76.7	78.6	80.3	82.0		
38 1/2	OUTPUT TORQUE (in lb)	86,758	58,655	49,819	44,390	35,186	30,104	26,723	22,632	19,159	16,023		
	OUTPUT TORQUE (Nm)	9,802	6,627	5,629	5,015	3,975	3,401	3,019	2,557	2,165	1,810		
	EFFICIENCY (%)	44.2	58.1	62.1	64.6	68.9	71.4	73.1	75.2	77.1	78.9		
47	OUTPUT TORQUE (in lb)	94,793	62,184	52,247	46,228	36,186	30,733	27,141	22,837	19,221	15,985		
	OUTPUT TORQUE (Nm)	10,710	7,026	5,903	5,223	4,088	3,472	3,067	2,580	2,172	1,806		
	EFFICIENCY (%)	36.8	50.8	55.0	57.7	62.4	65.1	67.0	69.4	71.6	73.1		
58	OUTPUT TORQUE (in lb)	92,909	60,671	50,798	44,829	34,905	29,540	26,019	21,815	18,298	15,163		
	OUTPUT TORQUE (Nm)	10,497	6,855	5,739	5,065	3,944	3,338	2,940	2,465	2,067	1,713		
	EFFICIENCY (%)	32.7	46.2	50.3	53.0	57.8	60.7	62.7	65.3	67.6	69.8		
71	OUTPUT TORQUE (in lb)	97,984	63,336	52,727	46,343	35,800	30,145	26,455	22,072	18,428	15,199		
	OUTPUT TORQUE (Nm)	11,071	7,156	5,957	5,236	4,045	3,406	2,989	2,494	2,082	1,717		
	EFFICIENCY (%)	28.6	41.4	45.5	48.1	53.0	55.9	58.0	60.7	63.2	65.6		
87	OUTPUT TORQUE (in lb)	96,528	61,718	51,040	44,648	34,170	28,601	24,991	20,730	17,212	14,117		
	OUTPUT TORQUE (Nm)	10,906	6,973	5,767	5,045	3,861	3,231	2,824	2,342	1,945	1,595		
	EFFICIENCY (%)	25.0	36.9	40.9	43.5	48.3	51.2	53.4	56.1	58.7	61.2		
106	OUTPUT TORQUE (in lb)	95,328	60,049	49,234	42,807	32,376	26,899	23,377	19,253	15,879	12,936		
	OUTPUT TORQUE (Nm)	10,771	6,785	5,563	4,837	3,658	3,039	2,641	2,175	1,794	1,462		
	EFFICIENCY (%)	21.8	32.8	36.5	39.0	43.7	46.6	48.7	51.5	54.1	56.7		

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.

