

SPIROID 11.250" 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 1/5	OUTPUT TORQUE (in lb)	32,261	23,764	20,810	18,916	15,551	13,601	12,262	10,595	9,135	7,778		
	OUTPUT TORQUE (Nm)	3,645	2,685	2,351	2,137	1,757	1,537	1,385	1,197	1,032	879		
	EFFICIENCY (%)	76.3	84.7	86.7	87.8	89.8	90.8	91.5	92.3	93.1	93.7		
12 1/4	OUTPUT TORQUE (in lb)	34,940	25,415	22,170	20,104	16,458	14,358	12,922	11,140	9,586	8,146		
	OUTPUT TORQUE (Nm)	3,948	2,872	2,505	2,271	1,860	1,622	1,460	1,259	1,083	920		
	EFFICIENCY (%)	72.3	81.8	84.1	85.4	87.7	88.9	89.7	90.7	91.6	92.4		
14 1/4	OUTPUT TORQUE (in lb)	38,328	27,731	24,150	21,875	17,872	15,573	14,004	12,059	10,366	8,800		
	OUTPUT TORQUE (Nm)	4,330	3,133	2,729	2,472	2,019	1,760	1,582	1,362	1,171	994		
	EFFICIENCY (%)	69.2	79.4	81.9	83.4	85.9	87.3	88.2	89.3	90.3	91.2		
17 1/3	OUTPUT TORQUE (in lb)	39,238	28,007	24,281	21,930	17,823	15,482	13,891	11,929	10,228	8,661		
	OUTPUT TORQUE (Nm)	4,433	3,164	2,743	2,478	2,014	1,749	1,569	1,348	1,156	979		
	EFFICIENCY (%)	63.8	75.2	78.1	79.8	82.7	84.4	85.4	86.8	88.0	89.0		
21 1/3	OUTPUT TORQUE (in lb)	51,679	36,676	31,724	28,608	23,181	20,098	18,008	15,436	13,212	11,168		
	OUTPUT TORQUE (Nm)	5,839	4,144	3,584	3,232	2,619	2,271	2,035	1,744	1,493	1,262		
	EFFICIENCY (%)	59.3	71.4	74.6	76.6	79.8	81.7	82.9	84.4	85.8	87.0		
25 1/2	OUTPUT TORQUE (in lb)	51,839	36,193	31,127	27,965	22,507	19,435	17,365	14,831	12,652	10,661		
	OUTPUT TORQUE (Nm)	5,857	4,089	3,517	3,160	2,543	2,196	1,962	1,676	1,429	1,205		
	EFFICIENCY (%)	53.3	66.3	69.9	72.0	75.7	77.8	79.3	81.0	82.6	84.1		
31 1/2	OUTPUT TORQUE (in lb)	55,389	38,480	33,012	29,607	23,746	20,458	18,248	15,550	13,238	11,130		
	OUTPUT TORQUE (Nm)	6,258	4,348	3,730	3,345	2,683	2,311	2,062	1,757	1,496	1,258		
	EFFICIENCY (%)	48.1	61.5	65.2	67.6	71.6	74.0	75.6	77.6	79.3	81.0		
38 1/2	OUTPUT TORQUE (in lb)	55,178	38,199	32,698	29,276	23,401	20,115	17,912	15,228	12,934	10,849		
	OUTPUT TORQUE (Nm)	6,234	4,316	3,694	3,308	2,644	2,273	2,024	1,721	1,461	1,226		
	EFFICIENCY (%)	43.5	56.9	60.8	63.3	67.6	70.1	71.8	74.0	76.0	77.9		
47	OUTPUT TORQUE (in lb)	60,101	40,452	34,268	30,474	24,059	20,530	18,188	15,362	12,970	10,818		
	OUTPUT TORQUE (Nm)	6,791	4,570	3,872	3,443	2,718	2,320	2,055	1,736	1,465	1,222		
	EFFICIENCY (%)	36.1	49.5	53.7	56.3	60.9	63.7	65.6	68.1	70.3	72.5		
58	OUTPUT TORQUE (in lb)	58,935	39,509	33,360	29,593	23,244	19,766	17,466	14,700	12,369	10,280		
	OUTPUT TORQUE (Nm)	6,659	4,464	3,769	3,344	2,626	2,233	1,973	1,661	1,398	1,161		
	EFFICIENCY (%)	32.1	44.9	49.0	51.6	56.4	59.2	61.2	63.9	66.2	68.6		
71	OUTPUT TORQUE (in lb)	62,189	41,299	34,681	30,645	23,885	20,210	17,793	14,902	12,481	10,324		
	OUTPUT TORQUE (Nm)	7,026	4,666	3,918	3,462	2,699	2,283	2,010	1,684	1,410	1,166		
	EFFICIENCY (%)	28.0	40.1	44.1	46.7	51.5	54.4	56.5	59.2	61.7	64.2		
87	OUTPUT TORQUE (in lb)	61,300	40,302	33,631	29,581	22,846	19,217	16,845	14,026	11,683	9,609		
	OUTPUT TORQUE (Nm)	6,926	4,554	3,800	3,342	2,581	2,171	1,903	1,585	1,320	1,086		
	EFFICIENCY (%)	24.5	35.7	39.5	42.1	46.8	49.7	51.8	54.6	57.2	59.7		
106	OUTPUT TORQUE (in lb)	60,562	39,280	32,510	28,428	21,704	18,123	15,801	13,063	10,808	8,829		
	OUTPUT TORQUE (Nm)	6,843	4,438	3,673	3,212	2,452	2,048	1,785	1,476	1,221	998		
	EFFICIENCY (%)	21.3	31.6	35.2	37.6	42.2	45.0	47.1	49.9	52.5	55.2		

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.

