

SPIROID 18.000" 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 1/6	OUTPUT TORQUE (in lb)	99,689	69,714	59,939	53,851	43,372	37,487	33,527	28,681	24,516			
	OUTPUT TORQUE (Nm)	11,263	7,877	6,772	6,084	4,900	4,235	3,788	3,241	2,770			
	EFFICIENCY (%)	78.0	86.8	88.6	89.7	91.4	92.3	92.9	93.6	94.2			
12 1/5	OUTPUT TORQUE (in lb)	141,509	97,129	83,070	74,392	59,583	51,336	45,814	39,088	33,333			
	OUTPUT TORQUE (Nm)	15,988	10,974	9,386	8,405	6,732	5,800	5,176	4,416	3,766			
	EFFICIENCY (%)	74.7	84.5	86.7	87.9	89.9	90.9	91.6	92.4	93.1			
14 1/4	OUTPUT TORQUE (in lb)	148,495	100,595	85,684	76,548	61,055	52,479	46,757	39,810	33,886			
	OUTPUT TORQUE (Nm)	16,778	11,366	9,681	8,649	6,898	5,929	5,283	4,498	3,829			
	EFFICIENCY (%)	71.0	81.9	84.4	85.8	88.0	89.2	90.0	91.0	91.8			
17 1/4	OUTPUT TORQUE (in lb)	153,224	103,308	87,881	78,433	62,441	53,608	47,722	40,585	34,509			
	OUTPUT TORQUE (Nm)	17,312	11,672	9,929	8,862	7,055	6,057	5,392	4,585	3,899			
	EFFICIENCY (%)	67.2	79.0	81.7	83.3	85.9	87.3	88.2	89.4	90.3			
21 1/3	OUTPUT TORQUE (in lb)	217,038	143,180	120,956	107,481	84,914	72,581	64,416	54,574	46,246			
	OUTPUT TORQUE (Nm)	24,522	16,177	13,666	12,144	9,594	8,201	7,278	6,166	5,225			
	EFFICIENCY (%)	61.1	74.4	77.6	79.5	82.5	84.2	85.3	86.7	87.8			
25 1/3	OUTPUT TORQUE (in lb)	219,001	144,023	121,486	107,839	85,020	72,574	64,346	54,441	46,074			
	OUTPUT TORQUE (Nm)	24,744	16,272	13,726	12,184	9,606	8,200	7,270	6,151	5,206			
	EFFICIENCY (%)	57.3	71.1	74.6	76.6	80.0	81.8	83.1	84.6	85.9			
31 1/2	OUTPUT TORQUE (in lb)	219,549	141,512	118,548	104,767	81,950	69,631	61,538	51,853	43,722			
	OUTPUT TORQUE (Nm)	24,806	15,989	13,394	11,837	9,259	7,867	6,953	5,859	4,940			
	EFFICIENCY (%)	50.3	65.2	69.1	71.4	75.3	77.4	78.9	80.7	82.3			
38 1/2	OUTPUT TORQUE (in lb)	234,702	150,193	125,395	110,560	86,096	72,948	64,339	54,067	45,473			
	OUTPUT TORQUE (Nm)	26,518	16,970	14,168	12,492	9,728	8,242	7,269	6,109	5,138			
	EFFICIENCY (%)	45.4	60.6	64.6	67.1	71.4	73.7	75.3	77.4	79.1			
47 1/2	OUTPUT TORQUE (in lb)	233,478	148,414	123,452	108,562	84,110	71,035	62,499	52,354	43,898			
	OUTPUT TORQUE (Nm)	26,379	16,769	13,948	12,266	9,503	8,026	7,061	5,915	4,960			
	EFFICIENCY (%)	40.6	55.7	59.9	62.5	67.1	69.6	71.4	73.6	75.6			
58	OUTPUT TORQUE (in lb)	253,089	155,431	127,726	111,458	85,187	71,379	62,464	51,968	43,308			
	OUTPUT TORQUE (Nm)	28,595	17,561	14,431	12,593	9,625	8,065	7,057	5,872	4,893			
	EFFICIENCY (%)	33.6	48.5	52.9	55.7	60.5	63.4	65.3	67.8	70.0			
71	OUTPUT TORQUE (in lb)	248,512	151,320	123,696	107,539	81,597	68,056	59,355	49,160	40,794			
	OUTPUT TORQUE (Nm)	28,078	17,097	13,976	12,150	9,219	7,689	6,706	5,554	4,609			
	EFFICIENCY (%)	29.8	44.0	48.4	51.2	56.1	59.0	61.0	63.6	66.0			
87	OUTPUT TORQUE (in lb)	244,551	146,986	119,281	103,176	77,529	64,271	55,808	45,955	37,927			
	OUTPUT TORQUE (Nm)	27,631	16,607	13,477	11,657	8,760	7,262	6,305	5,192	4,285			
	EFFICIENCY (%)	26.2	39.5	43.8	46.5	51.4	54.4	56.5	59.2	61.7			
106	OUTPUT TORQUE (in lb)	241,287	142,474	114,531	98,427	73,060	60,110	51,913	42,445	34,779			
	OUTPUT TORQUE (Nm)	27,262	16,097	12,940	11,121	8,255	6,792	5,865	4,796	3,929			
	EFFICIENCY (%)	22.9	35.2	39.3	41.9	46.8	49.8	51.9	54.7	57.2			

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.

