

SPIROID 3.000" 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 1/4	OUTPUT TORQUE (in lb)	691	578	531	499	436	396	367	328	292	257	210	168
	OUTPUT TORQUE (Nm)	78.1	65.3	60.0	56.4	49.3	44.7	41.5	37.1	33.0	29.0	23.7	19.0
	EFFICIENCY (%)	71.4	78.1	80.1	81.5	83.8	85.1	86.1	87.3	88.4	89.5	90.8	92.0
12 1/3	OUTPUT TORQUE (in lb)	721	598	548	513	447	405	374	334	296	259	211	169
	OUTPUT TORQUE (Nm)	81.5	67.6	61.9	58.0	50.5	45.8	42.3	37.7	33.4	29.3	23.8	19.1
	EFFICIENCY (%)	66.4	73.9	76.3	77.7	80.4	82.0	83.1	84.6	85.9	87.1	88.7	90.2
14 2/3	OUTPUT TORQUE (in lb)	776	641	587	549	478	432	399	356	315	276	224	179
	OUTPUT TORQUE (Nm)	87.7	72.4	66.3	62.0	54.0	48.8	45.1	40.2	35.6	31.2	25.3	20.2
	EFFICIENCY (%)	62.4	70.4	72.9	74.5	77.5	79.2	80.5	82.1	83.5	85.0	86.8	88.4
17 1/2	OUTPUT TORQUE (in lb)	992	810	738	689	595	536	494	438	387	337	273	217
	OUTPUT TORQUE (Nm)	112	91.5	83.4	77.8	67.2	60.6	55.8	49.5	43.7	38.1	30.8	24.5
	EFFICIENCY (%)	56.5	65.2	68.0	69.9	73.2	75.2	76.6	78.5	80.2	81.8	84.0	85.9
21 1/2	OUTPUT TORQUE (in lb)	997	813	741	691	597	537	495	439	387	337	272	216
	OUTPUT TORQUE (Nm)	113	91.9	83.7	78.1	67.5	60.7	55.9	49.6	43.7	38.1	30.7	24.4
	EFFICIENCY (%)	51.9	60.8	63.7	65.7	69.2	71.4	73.0	75.0	76.9	78.7	81.2	83.3
25 1/2	OUTPUT TORQUE (in lb)	1,062	864	786	733	632	568	522	463	408	354	286	226
	OUTPUT TORQUE (Nm)	120	97.6	88.8	82.8	71.4	64.2	59.0	52.3	46.1	40.0	32.3	25.5
	EFFICIENCY (%)	47.6	56.6	59.6	61.7	65.4	67.7	69.4	71.6	73.6	75.7	78.3	80.8
31	OUTPUT TORQUE (in lb)	1,088	872	789	732	626	560	512	451	396	342	274	215
	OUTPUT TORQUE (Nm)	123	98.5	89.1	82.7	70.7	63.3	57.8	51.0	44.7	38.6	31.0	24.3
	EFFICIENCY (%)	40.1	49.3	52.5	54.6	58.7	61.2	63.0	65.5	67.8	70.1	73.1	76.0
38	OUTPUT TORQUE (in lb)	1,138	912	824	764	651	581	532	467	409	353	282	221
	OUTPUT TORQUE (Nm)	129	103	93.1	86.3	73.6	65.6	60.1	52.8	46.2	39.9	31.9	25.0
	EFFICIENCY (%)	35.7	44.5	47.7	49.8	53.9	56.5	58.4	60.9	63.4	65.8	69.1	72.2
47	OUTPUT TORQUE (in lb)	1,119	896	808	749	637	567	518	454	397	341	271	212
	OUTPUT TORQUE (Nm)	126	101	91.3	84.6	72.0	64.1	58.5	51.3	44.9	38.5	30.6	24.0
	EFFICIENCY (%)	31.5	39.9	42.9	45.0	49.1	51.7	53.6	56.2	58.8	61.3	64.8	68.1
58	OUTPUT TORQUE (in lb)	1,179	941	847	783	663	589	536	469	407	349	276	214
	OUTPUT TORQUE (Nm)	133	106	95.7	88.5	74.9	66.5	60.6	53.0	46.0	39.4	31.2	24.2
	EFFICIENCY (%)	27.4	35.1	38.1	40.1	44.0	46.6	48.5	51.2	53.7	56.4	60.0	63.5
71	OUTPUT TORQUE (in lb)	1,164	927	832	767	646	572	520	452	392	334	263	203
	OUTPUT TORQUE (Nm)	132	105	94.0	86.7	73.0	64.6	58.8	51.1	44.3	37.7	29.7	22.9
	EFFICIENCY (%)	23.9	31.0	33.7	35.6	39.4	41.9	43.8	46.4	49.0	51.6	55.4	59.0
87	OUTPUT TORQUE (in lb)	1,151	913	816	751	629	554	501	434	374	317	247	189
	OUTPUT TORQUE (Nm)	130	103	92.2	84.9	71.1	62.6	56.6	49.0	42.3	35.8	27.9	21.4
	EFFICIENCY (%)	20.7	27.1	29.6	31.4	35.0	37.3	39.2	41.7	44.2	46.8	50.6	54.3
106	OUTPUT TORQUE (in lb)												
	OUTPUT TORQUE (Nm)												
	EFFICIENCY (%)												

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.

