

**SPIROID 1.500" 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)	92	81	76	72	65	60	57	52	47	42	35	29
	OUTPUT TORQUE (Nm)	10.4	9.2	8.6	8.1	7.3	6.8	6.4	5.9	5.3	4.7	4.0	3.3
	EFFICIENCY (%)	69.0	74.7	76.6	77.9	80.2	81.7	82.7	84.0	85.3	86.6	88.2	89.7
12 1/3	OUTPUT TORQUE (in lb)	95	83	77	74	66	61	57	52	47	42	35	29
	OUTPUT TORQUE (Nm)	10.7	9.4	8.7	8.4	7.5	6.9	6.4	5.9	5.3	4.7	4.0	3.3
	EFFICIENCY (%)	63.9	70.2	72.3	73.7	76.4	78.0	79.2	80.8	82.2	83.7	85.6	87.4
14 2/3	OUTPUT TORQUE (in lb)	121	105	98	93	84	77	72	66	59	53	44	36
	OUTPUT TORQUE (Nm)	13.7	11.9	11.1	10.5	9.5	8.7	8.1	7.5	6.7	6.0	5.0	4.1
	EFFICIENCY (%)	60.2	66.8	69.0	70.5	73.4	75.2	76.5	78.2	79.8	81.4	83.6	85.6
17 1/2	OUTPUT TORQUE (in lb)	121	104	97	92	82	76	71	64	58	51	42	35
	OUTPUT TORQUE (Nm)	13.7	11.8	11.0	10.4	9.3	8.6	8.0	7.2	6.6	5.8	4.7	4.0
	EFFICIENCY (%)	54.2	61.2	63.7	65.3	68.5	70.5	72.0	73.9	75.7	77.6	80.1	82.4
21 1/2	OUTPUT TORQUE (in lb)	129	111	103	98	87	80	75	68	61	54	45	36
	OUTPUT TORQUE (Nm)	14.6	12.5	11.6	11.1	9.8	9.0	8.5	7.7	6.9	6.1	5.1	4.1
	EFFICIENCY (%)	49.1	56.2	58.8	60.5	63.9	66.0	67.6	69.7	71.7	73.8	76.6	79.2
25 1/2	OUTPUT TORQUE (in lb)	128	110	103	97	87	80	74	67	60	53	44	36
	OUTPUT TORQUE (Nm)	14.5	12.4	11.6	11.0	9.8	9.0	8.4	7.6	6.8	6.0	5.0	4.1
	EFFICIENCY (%)	45.1	52.2	54.8	56.5	60.0	62.2	63.9	66.1	68.2	70.4	73.4	76.3
31	OUTPUT TORQUE (in lb)	138	118	109	103	91	83	77	69	62	55	45	36
	OUTPUT TORQUE (Nm)	15.6	13.3	12.3	11.6	10.3	9.4	8.7	7.8	7.0	6.2	5.1	4.1
	EFFICIENCY (%)	37.6	44.7	47.4	49.2	52.8	55.2	57.0	59.4	61.7	64.1	67.5	70.7
38	OUTPUT TORQUE (in lb)	136	116	107	101	89	81	76	68	61	53	44	35
	OUTPUT TORQUE (Nm)	15.4	13.1	12.1	11.4	10.1	9.2	8.6	7.7	6.9	6.0	5.0	4.0
	EFFICIENCY (%)	33.6	40.3	42.9	44.7	48.3	50.6	52.4	54.8	57.2	59.8	63.3	66.7
47	OUTPUT TORQUE (in lb)	143	121	112	106	93	85	79	71	63	55	45	36
	OUTPUT TORQUE (Nm)	16.2	13.7	12.7	12.0	10.5	9.6	8.9	8.0	7.1	6.2	5.1	4.1
	EFFICIENCY (%)	29.3	35.6	38.0	39.7	43.2	45.5	47.3	49.7	52.2	54.7	58.4	62.0
58	OUTPUT TORQUE (in lb)												
	OUTPUT TORQUE (Nm)												
	EFFICIENCY (%)												
71	OUTPUT TORQUE (in lb)												
	OUTPUT TORQUE (Nm)												
	EFFICIENCY (%)												
87	OUTPUT TORQUE (in lb)												
	OUTPUT TORQUE (Nm)												
	EFFICIENCY (%)												
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.

