

SPIROID 1.875" 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)	177	153	142	135	121	111	104	94	85	75	63	51
	OUTPUT TORQUE (Nm)	20.0	17.3	16.0	15.3	13.7	12.5	11.8	10.6	9.6	8.5	7.1	5.8
	EFFICIENCY (%)	69.8	75.8	77.8	79.1	81.4	82.8	83.8	85.2	86.4	87.6	89.1	90.5
12 1/3	OUTPUT TORQUE (in lb)	183	157	146	138	123	113	105	95	85	76	63	51
	OUTPUT TORQUE (Nm)	20.7	17.7	16.5	15.6	13.9	12.8	11.9	10.7	9.6	8.6	7.1	5.8
	EFFICIENCY (%)	64.7	71.4	73.6	75.0	77.7	79.3	80.5	82.1	83.5	84.9	86.7	88.4
14 2/3	OUTPUT TORQUE (in lb)	196	167	155	147	131	120	112	101	91	80	66	54
	OUTPUT TORQUE (Nm)	22.1	18.9	17.5	16.6	14.8	13.6	12.7	11.4	10.3	9.0	7.5	6.1
	EFFICIENCY (%)	60.5	67.6	69.9	71.5	74.4	76.2	77.5	79.2	80.8	82.4	84.5	86.4
17 1/2	OUTPUT TORQUE (in lb)	233	198	184	173	153	140	130	117	105	93	76	62
	OUTPUT TORQUE (Nm)	26.3	22.4	20.8	19.5	17.3	15.8	14.7	13.2	11.9	10.5	8.6	7.0
	EFFICIENCY (%)	55.1	62.6	65.2	66.9	70.1	72.1	73.6	75.5	77.3	79.1	81.5	83.6
21 1/2	OUTPUT TORQUE (in lb)	249	211	195	184	162	148	138	124	111	98	80	65
	OUTPUT TORQUE (Nm)	28.1	23.8	22.0	20.8	18.3	16.7	15.6	14.0	12.5	11.1	9.0	7.3
	EFFICIENCY (%)	50.0	57.7	60.3	62.2	65.6	67.8	69.3	71.4	73.4	75.4	78.1	80.6
25 1/2	OUTPUT TORQUE (in lb)	249	211	195	184	162	148	137	123	110	97	79	64
	OUTPUT TORQUE (Nm)	28.1	23.8	22.0	20.8	18.3	16.7	15.5	13.9	12.4	11.0	8.9	7.2
	EFFICIENCY (%)	46.0	53.6	56.4	58.2	61.8	64.1	65.7	67.9	70.1	72.2	75.1	77.8
31	OUTPUT TORQUE (in lb)	269	225	207	194	170	154	142	127	113	99	81	64
	OUTPUT TORQUE (Nm)	30.4	25.4	23.4	21.9	19.2	17.4	16.0	14.3	12.8	11.2	9.2	7.2
	EFFICIENCY (%)	38.4	46.2	49.0	50.9	54.7	57.1	58.9	61.4	63.7	66.1	69.4	72.5
38	OUTPUT TORQUE (in lb)	264	221	203	191	167	151	140	125	110	97	78	62
	OUTPUT TORQUE (Nm)	29.8	25.0	22.9	21.6	18.9	17.1	15.8	14.1	12.4	11.0	8.8	7.0
	EFFICIENCY (%)	34.4	41.7	44.5	46.4	50.1	52.6	54.4	56.9	59.3	61.8	65.3	68.6
47	OUTPUT TORQUE (in lb)	227	232	213	199	174	157	145	129	114	99	80	64
	OUTPUT TORQUE (Nm)	25.6	26.2	24.1	22.5	19.7	17.7	16.4	14.6	12.9	11.2	9.0	7.2
	EFFICIENCY (%)	30.0	36.9	39.5	41.4	45.0	47.4	49.3	51.8	54.3	56.9	60.5	64.0
58	OUTPUT TORQUE (in lb)	273	228	209	196	170	154	141	125	111	96	77	61
	OUTPUT TORQUE (Nm)	30.8	25.8	23.6	22.1	19.2	17.4	15.9	14.1	12.5	10.8	8.7	6.9
	EFFICIENCY (%)	26.2	32.5	35.0	36.7	40.2	42.6	44.4	46.9	49.4	52.0	55.7	59.4
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.

