

HELICON 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)	129	115	108	104	94	88	83	76	70	63	54	44
	OUTPUT TORQUE (Nm)	14.6	13.0	12.2	11.8	10.6	9.9	9.4	8.6	7.9	7.1	6.1	5.0
	EFFICIENCY (%)	89.3	91.4	92.1	92.6	93.4	93.9	94.3	94.8	95.2	95.7	96.2	96.7
6 1/8	OUTPUT TORQUE (in lb)	128	113	106	102	92	86	81	74	67	61	51	42
	OUTPUT TORQUE (Nm)	14.5	12.8	12.0	11.5	10.4	9.7	9.2	8.4	7.6	6.9	5.8	4.7
	EFFICIENCY (%)	84.1	87.2	88.3	88.9	90.2	90.9	91.5	92.2	92.8	93.5	94.3	95.1
8 1/5	OUTPUT TORQUE (in lb)	165	146	137	131	118	110	103	94	86	77	65	53
	OUTPUT TORQUE (Nm)	18.6	16.5	15.5	14.8	13.3	12.4	11.6	10.6	9.7	8.7	7.3	6.0
	EFFICIENCY (%)	79.1	83.3	84.6	85.5	87.2	88.2	88.9	89.8	90.7	91.5	92.6	93.6
10 1/4	OUTPUT TORQUE (in lb)	169	147	138	131	118	109	102	93	85	76	63	52
	OUTPUT TORQUE (Nm)	19.1	16.6	15.6	14.8	13.3	12.3	11.5	10.5	9.6	8.6	7.1	5.9
	EFFICIENCY (%)	73.8	78.8	80.5	81.5	83.6	84.8	85.7	86.8	87.9	89.0	90.3	91.6
12 1/3	OUTPUT TORQUE (in lb)	167	145	135	129	115	106	99	90	81	73	60	49
	OUTPUT TORQUE (Nm)	18.9	16.4	15.3	14.6	13.0	12.0	11.2	10.2	9.2	8.2	6.8	5.5
	EFFICIENCY (%)	68.4	74.1	76.1	77.3	79.7	81.2	82.2	83.6	84.9	86.2	87.9	89.4
14 2/3	OUTPUT TORQUE (in lb)	178	153	143	136	121	111	104	95	85	76	63	51
	OUTPUT TORQUE (Nm)	20.1	17.3	16.2	15.4	13.7	12.5	11.8	10.7	9.6	8.6	7.1	5.8
	EFFICIENCY (%)	64.0	70.2	72.3	73.7	76.3	78.0	79.1	80.7	82.2	83.6	85.6	87.3
17 1/2	OUTPUT TORQUE (in lb)	232	198	184	174	154	141	132	119	107	95	78	63
	OUTPUT TORQUE (Nm)	26.2	22.4	20.8	19.7	17.4	15.9	14.9	13.4	12.1	10.7	8.8	7.1
	EFFICIENCY (%)	57.4	64.3	66.7	68.3	71.3	73.2	74.6	76.4	78.1	79.8	82.1	82.4
21 1/2	OUTPUT TORQUE (in lb)	229	195	181	171	152	139	130	117	105	93	77	62
	OUTPUT TORQUE (Nm)	25.9	22.0	20.5	19.3	17.2	15.7	14.7	13.2	11.9	10.5	8.7	7.0
	EFFICIENCY (%)	52.4	59.4	61.9	63.6	66.9	68.9	70.8	72.4	74.3	76.2	78.8	81.2
25 1/2	OUTPUT TORQUE (in lb)	246	209	193	183	162	148	138	124	111	98	81	65
	OUTPUT TORQUE (Nm)	27.8	23.6	21.8	20.7	18.3	16.7	15.6	14.0	12.5	11.1	9.2	7.3
	EFFICIENCY (%)	47.8	54.9	57.5	59.3	62.6	64.8	66.4	68.6	70.6	72.7	75.5	78.2
31	OUTPUT TORQUE (in lb)	228	191	176	166	146	133	123	110	98	86	71	56
	OUTPUT TORQUE (Nm)	25.8	21.6	19.9	18.8	16.5	15.0	13.9	12.4	11.1	9.7	8.0	6.3
	EFFICIENCY (%)	40.3	47.5	50.2	52.1	55.6	58.0	59.7	62.1	64.3	66.7	69.9	72.9
38	OUTPUT TORQUE (in lb)	225	189	174	164	144	131	121	108	96	84	69	55
	OUTPUT TORQUE (Nm)	25.4	21.4	19.7	18.5	16.3	14.8	13.7	12.2	10.8	9.5	7.8	6.2
	EFFICIENCY (%)	35.9	42.9	45.5	47.3	50.9	53.3	55.0	57.5	59.8	62.3	65.7	69.0
47	OUTPUT TORQUE (in lb)	241	202	186	175	153	138	128	114	101	89	72	57
	OUTPUT TORQUE (Nm)	27.2	22.8	21.0	19.8	17.3	15.6	14.5	12.9	11.4	10.1	8.1	6.4
	EFFICIENCY (%)	31.2	37.8	40.3	42.1	45.6	47.9	49.7	52.2	54.6	57.1	60.7	64.2
58	OUTPUT TORQUE (in lb)	238	199	183	172	150	136	125	111	98	86	69	55
	OUTPUT TORQUE (Nm)	26.9	22.5	20.7	19.4	16.9	15.4	14.1	12.5	11.1	9.7	7.8	6.2
	EFFICIENCY (%)	27.2	33.2	35.6	37.3	40.6	42.9	44.7	47.1	49.5	52.1	55.7	59.4
71	OUTPUT TORQUE (in lb)	256	214	196	184	159	144	132	117	103	89	72	56
	OUTPUT TORQUE (Nm)	28.9	24.2	22.1	20.8	18.0	16.3	14.9	13.2	11.6	10.1	8.1	6.3
	EFFICIENCY (%)	23.4	28.9	31.1	32.6	35.8	38.0	39.7	42.1	44.4	47.0	50.7	54.4
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.

