

HELICON 2.250" 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)	223	196	184	176	159	147	139	127	116	104	87	72
	OUTPUT TORQUE (Nm)	25.2	22.1	20.8	19.9	18.0	16.6	15.7	14.3	13.1	11.8	9.8	8.1
	EFFICIENCY (%)	89.5	91.7	92.4	92.9	93.7	94.3	94.6	95.1	95.5	95.9	96.5	96.9
6 1/8	OUTPUT TORQUE (in lb)	219	191	179	171	154	143	134	122	111	99	84	69
	OUTPUT TORQUE (Nm)	24.7	21.6	20.2	19.3	17.4	16.2	15.1	13.8	12.5	11.2	9.5	7.8
	EFFICIENCY (%)	84.6	87.8	88.9	89.5	90.8	91.5	92.0	92.7	93.3	93.9	94.7	95.4
8 1/5	OUTPUT TORQUE (in lb)	227	198	185	177	159	147	138	125	113	101	85	69
	OUTPUT TORQUE (Nm)	25.6	22.4	20.9	20.0	18.0	16.6	15.6	14.1	12.8	11.4	9.6	7.8
	EFFICIENCY (%)	79.5	83.9	85.3	86.2	87.8	88.8	89.5	90.4	91.2	92.0	93.1	94.0
10 1/4	OUTPUT TORQUE (in lb)	285	246	230	218	195	179	168	152	137	122	101	83
	OUTPUT TORQUE (Nm)	32.2	27.8	26.0	24.6	22.0	20.2	19.0	17.2	15.5	13.8	11.4	9.4
	EFFICIENCY (%)	74.5	79.7	81.4	82.5	84.5	85.7	86.6	87.7	88.7	89.7	91.0	92.2
12 1/3	OUTPUT TORQUE (in lb)	304	260	241	228	203	186	174	157	141	125	103	84
	OUTPUT TORQUE (Nm)	34.3	29.4	27.2	25.8	22.9	21.0	19.7	17.7	15.9	14.1	11.6	9.5
	EFFICIENCY (%)	68.8	74.9	76.9	78.2	80.6	82.0	83.1	84.4	85.7	86.9	88.5	90.0
14 2/3	OUTPUT TORQUE (in lb)	302	257	239	226	200	184	171	154	139	123	101	82
	OUTPUT TORQUE (Nm)	34.1	29.0	27.0	25.5	22.6	20.8	19.3	17.4	15.7	13.9	11.4	9.3
	EFFICIENCY (%)	64.8	71.3	73.4	74.9	77.5	79.1	80.3	81.8	83.3	84.7	86.5	88.2
17 1/2	OUTPUT TORQUE (in lb)	395	333	307	290	255	233	216	197	174	153	126	101
	OUTPUT TORQUE (Nm)	44.6	37.6	34.7	32.8	28.8	26.3	24.4	22.3	19.7	17.3	14.2	11.4
	EFFICIENCY (%)	58.2	65.5	67.9	69.6	72.6	74.5	75.9	77.7	79.3	81.0	83.2	85.2
21 1/2	OUTPUT TORQUE (in lb)	391	329	304	286	252	229	213	191	171	150	123	99
	OUTPUT TORQUE (Nm)	44.2	37.2	34.3	32.3	28.5	25.9	24.1	21.6	19.3	16.9	13.9	11.2
	EFFICIENCY (%)	53.3	60.7	63.3	65.0	68.3	70.4	71.9	73.8	75.7	77.6	80.0	82.3
25 1/2	OUTPUT TORQUE (in lb)	419	352	324	305	268	244	226	203	180	159	130	104
	OUTPUT TORQUE (Nm)	47.3	39.8	36.6	34.5	30.3	27.6	25.5	22.9	20.3	18.0	14.7	11.8
	EFFICIENCY (%)	48.6	56.2	58.9	60.7	64.1	66.3	67.9	70.1	72.1	74.1	76.9	79.4
31	OUTPUT TORQUE (in lb)	389	322	295	277	241	218	202	180	159	139	113	90
	OUTPUT TORQUE (Nm)	44.0	36.4	33.3	31.3	27.2	24.6	22.8	20.3	18.0	15.7	12.8	10.2
	EFFICIENCY (%)	41.0	48.7	51.6	53.5	57.2	59.5	61.3	63.7	65.9	68.2	71.4	74.3
38	OUTPUT TORQUE (in lb)	416	344	315	295	256	232	214	190	168	147	119	94
	OUTPUT TORQUE (Nm)	47.0	38.9	35.6	33.3	28.9	26.2	24.2	21.5	19.0	16.6	13.4	10.6
	EFFICIENCY (%)	36.3	43.7	46.5	48.4	52.2	54.6	56.4	58.8	61.2	63.7	67.0	70.2
47	OUTPUT TORQUE (in lb)	411	339	310	290	252	227	209	186	164	142	115	91
	OUTPUT TORQUE (Nm)	46.4	38.3	35.0	32.8	28.5	25.6	23.6	21.0	18.5	16.0	13.0	10.3
	EFFICIENCY (%)	31.9	39.0	41.6	43.5	47.2	49.6	51.4	53.9	56.3	58.9	62.4	65.9
58	OUTPUT TORQUE (in lb)	406	335	306	286	247	222	204	181	159	138	110	87
	OUTPUT TORQUE (Nm)	45.9	37.8	34.6	32.3	27.9	25.1	23.0	20.5	18.0	15.6	12.4	9.8
	EFFICIENCY (%)	27.8	34.3	36.9	38.6	42.2	44.5	46.3	48.8	51.3	53.9	57.5	61.1
71	OUTPUT TORQUE (in lb)	437	359	327	305	262	235	215	190	166	143	114	89
	OUTPUT TORQUE (Nm)	49.4	40.6	36.9	34.5	29.6	26.6	24.3	21.5	18.8	16.2	12.9	10.1
	EFFICIENCY (%)	24.0	29.9	32.3	34.0	37.3	39.6	41.4	43.8	46.2	48.8	52.5	56.2
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.

