

SPIROID 5.250" 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)												
	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)	3,677	2,923	2,634	2,440	2,078	1,856	1,698	1,495	1,311	1,134		
	OUTPUT TORQUE (Nm)	415	330	298	276	235	210	192	169	148	128		
	EFFICIENCY (%)	72.9	80.6	82.7	84.0	86.2	87.5	88.4	89.5	90.4	91.3		
12 1/3	OUTPUT TORQUE (in lb)	3,887	3,054	2,742	2,534	2,147	1,912	1,745	1,532	1,340	1,156		
	OUTPUT TORQUE (Nm)	439	345	310	286	243	216	197	173	151	131		
	EFFICIENCY (%)	68.1	76.7	79.2	80.7	83.3	84.8	85.8	87.1	88.3	89.3		
14 2/3	OUTPUT TORQUE (in lb)	3,979	3,121	2,800	2,586	2,189	1,948	1,778	1,560	1,363	1,175		
	OUTPUT TORQUE (Nm)	450	353	316	292	247	220	201	176	154	133		
	EFFICIENCY (%)	64.6	73.7	76.4	78.0	80.9	82.6	83.7	85.1	86.4	87.7		
17 1/2	OUTPUT TORQUE (in lb)	5,136	3,966	3,537	3,256	2,734	2,422	2,203	1,925	1,676	1,439		
	OUTPUT TORQUE (Nm)	580	448	400	368	309	274	249	217	189	163		
	EFFICIENCY (%)	58.7	68.8	71.8	73.7	77.0	78.9	80.3	81.9	83.5	84.9		
21 1/2	OUTPUT TORQUE (in lb)	5,521	4,252	3,787	3,481	2,920	2,583	2,348	2,048	1,781	1,527		
	OUTPUT TORQUE (Nm)	624	480	428	393	330	292	265	231	201	173		
	EFFICIENCY (%)	53.8	64.3	67.5	69.6	73.2	75.3	76.8	78.7	80.4	82.1		
25 1/2	OUTPUT TORQUE (in lb)	5,527	4,254	3,787	3,479	2,915	2,577	2,340	2,039	1,771	1,517		
	OUTPUT TORQUE (Nm)	624	481	428	393	329	291	264	230	200	171		
	EFFICIENCY (%)	49.9	60.6	63.9	66.1	69.9	72.2	73.8	75.9	77.7	79.6		
31 1/2	OUTPUT TORQUE (in lb)	5,511	4,235	3,765	3,456	2,889	2,550	2,312	2,012	1,744	1,492		
	OUTPUT TORQUE (Nm)	623	478	425	390	326	288	261	227	197	169		
	EFFICIENCY (%)	45.1	55.8	59.2	61.4	65.5	68.0	69.7	72.0	74.0	76.1		
38	OUTPUT TORQUE (in lb)	6,466	4,883	4,311	3,937	3,261	2,861	2,584	2,236	1,929	1,641		
	OUTPUT TORQUE (Nm)	731	552	487	445	368	323	292	253	218	185		
	EFFICIENCY (%)	38.1	48.9	52.5	54.8	59.2	61.9	63.8	66.3	68.6	70.8		
47	OUTPUT TORQUE (in lb)	6,345	4,785	4,217	3,846	3,176	2,780	2,507	2,163	1,861	1,579		
	OUTPUT TORQUE (Nm)	717	541	476	435	359	314	283	244	210	178		
	EFFICIENCY (%)	33.9	44.2	47.7	50.0	54.4	57.2	59.2	61.8	64.2	66.7		
58	OUTPUT TORQUE (in lb)	6,676	5,012	4,403	4,006	3,290	2,870	2,580	2,218	1,901	1,607		
	OUTPUT TORQUE (Nm)	754	566	497	453	372	324	292	251	215	182		
	EFFICIENCY (%)	29.5	39.2	42.7	45.0	49.4	52.1	54.1	56.8	59.4	62.0		
71	OUTPUT TORQUE (in lb)	6,586	4,922	4,308	3,909	3,191	2,773	2,485	2,127	1,815	1,527		
	OUTPUT TORQUE (Nm)	744	556	487	442	361	313	281	240	205	173		
	EFFICIENCY (%)	25.9	34.9	38.1	40.4	44.6	47.4	49.4	52.1	54.7	57.4		
87	OUTPUT TORQUE (in lb)	6,982	5,177	4,508	4,073	3,297	2,848	2,541	2,162	1,834	1,534		
	OUTPUT TORQUE (Nm)	789	585	509	460	373	322	287	244	207	173		
	EFFICIENCY (%)	22.3	30.5	33.6	35.7	39.8	42.4	44.4	47.1	49.7	52.4		
106	OUTPUT TORQUE (in lb)	6,915	5,083	4,399	3,956	3,171	2,720	2,415	2,040	1,719	1,427		
	OUTPUT TORQUE (Nm)	781	574	497	447	358	307	273	230	194	161		
	EFFICIENCY (%)	19.2	26.7	29.5	31.5	35.3	37.9	39.8	42.5	45.0	47.7		

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.

