

Excitron Motor Hsteps/sec vs RPM

400

This section for motors with 400 hsteps/rev				
Gear Ratio	1	13.2	90	486
Hsteps/sec	RPM	RPM	RPM	RPM
64	10	.7	.1	.0
500	75	5.7	.8	.2
1000	150	11.4	1.7	.3
1500	225	17	2.5	.5
2000	300	23	3.3	.6
2500	375	28	4.2	.8
3000	450	34	5.0	.9
3500	525	40	5.8	1.1
4000	600	45	6.7	1.2
4500	675	51	7.5	1.4
5000	750	57	8.3	1.5
5500	825	63	9.2	1.7
6000	900	68	10.0	1.9
6500	975	74	10.8	2.0
7000	1050	80	11.7	2.2
7500	1125	85	12.5	2.3
8000	1200	91	13.3	2.5
8500	1275	97	14.2	2.6
9000	1350	102	15.0	2.8
9500	1425	108	15.8	2.9
10000	1500	114	16.7	3.1
10500	1575	119	17.5	3.2
11000	1650	125	18.3	3.4
11500	1725	131	19.2	3.5
12000	1800	136	20.0	3.7
12500	1875	142	20.8	3.9
13000	1950	148	21.7	4.0
13500	2025	153	22.5	4.2
14000	2100	159	23.3	4.3
14500	2175	165	24.2	4.5
15000	2250	170	25.0	4.6
15500	2325	176	25.8	4.8
16000	2400	182	26.7	4.9
16500	2475	188	27.5	5.1
17000	2550	193	28.3	5.2
17500	2625	199	29.2	5.4
18000	2700	205	30.0	5.6
18500	2775	210	30.8	5.7
19000	2850	216	31.7	5.9
19500	2925	222	32.5	6.0
20000	3000	227	33.3	6.2
20500	3075	233	34.2	6.3
21000	3150	239	35.0	6.5
21500	3225	244	35.8	6.6
22000	3300	250	36.7	6.8
22500	3375	256	37.5	6.9
23000	3450	261	38.3	7.1
23500	3525	267	39.2	7.3
24000	3600	273	40.0	7.4
24500	3675	278	40.8	7.6
25000	3750	284	41.7	7.7
25500	3825	290	42.5	7.9
26000	3900	295	43.3	8.0

800

For motors with 800 hsteps/rev		
1	90	486
RPM	RPM	RPM
4.8	.1	.0
37.5	.4	.1
75.0	.8	.2
113	1.3	.2
150	1.7	.3
188	2.1	.4
225	2.5	.5
263	2.9	.5
300	3.3	.6
338	3.8	.7
375	4.2	.8
413	4.6	.8
450	5.0	.9
488	5.4	1.0
525	5.8	1.1
563	6.3	1.2
600	6.7	1.2
638	7.1	1.3
675	7.5	1.4
713	7.9	1.5
750	8.3	1.5
788	8.8	1.6
825	9.2	1.7
863	9.6	1.8
900	10.0	1.9
938	10.4	1.9
975	10.8	2.0
1013	11.3	2.1
1050	11.7	2.2
1088	12.1	2.2
1125	12.5	2.3
1163	12.9	2.4
1200	13.3	2.5
1238	13.8	2.5
1275	14.2	2.6
1313	14.6	2.7
1350	15.0	2.8
1388	15.4	2.9
1425	15.8	2.9
1463	16.3	3.0
1500	16.7	3.1
1538	17.1	3.2
1575	17.5	3.2
1613	17.9	3.3
1650	18.3	3.4
1688	18.8	3.5
1725	19.2	3.5
1763	19.6	3.6
1800	20.0	3.7
1838	20.4	3.8
1875	20.8	3.9
1913	21.3	3.9
1950	21.7	4.0

RPM = hsteps/sec / 400 hsteps/rev / GR * 60 sec/min

Hsteps/sec = RPM * 400 hsteps/rev * GR / 60 sec/min