Tool info

Serial API:
Board:
Firmware:
Commit:

Measurement info

Motor: Generic Motor
KV: 0
Magnet poles: 14
Propeler: Generic Propeller
Blade count: 2
Note:

Measurement Results 1:

| Output | Thrust [G] | | Torque [G cm] | | RPM [1/min] | | Voltage [V] | | Current [A] | | Pin [W] | ThrustEff |
[%]	mean	std dev	mean	std dev	mean	std dev	mean	std dev	mean	std dev		[G/W]
20	2.33	11.072	2.61	7.236	8365	42.0	16.732	0.0046	0.690	0.0251	11.551	0.202
30	2.64	11.071	2.03	7.212	11073	49.6	16.715	0.0041	1.020	0.0248	17.041	0.155
40	3.47	11.073	2.48	7.213	12668	39.1	16.698	0.0042	1.203	0.0272	20.088	0.173
50	4.91	11.077	2.55	7.210	13653	67.4	16.687	0.0038	1.316	0.0365	21.955	0.224
60	4.34	11.073	2.48	7.210	14356	71.3	16.680	0.0041	1.409	0.0171	23.495	0.185
70	4.13	11.072	2.34	7.210	14919	60.3	16.668	0.0040	1.488	0.0410	24.808	0.167
80	4.24	11.071	2.24	7.210	15424	55.9	16.662	0.0036	1.543	0.0332	25.711	0.165
90	4.45	11.072	1.91	7.209	15794	45.8	16.657	0.0058	1.571	0.0269	26.172	0.170
100	3.29	11.071	1.72	7.211	16769	28.2	16.649	0.0055	1.596	0.1156	26.567	0.124

Measurement Results 2:

| Output | Thrust [G] | | Torque [G cm] | | RPM [1/min] | | Voltage [V] | | Current [A] | | Pin [W] | ThrustEff |
[%]	mean	std dev	mean	std dev	mean	std dev	mean	std dev	mean	std dev		[G/W]
20	-3.10	5.345	-5.23	6.966	8454	20.4	16.688	0.0043	0.702	0.0153	11.717	-0.265
30	2.16	5.234	-5.13	6.897	11127	24.9	16.674	0.0053	0.989	0.0269	16.487	0.131
40	3.39	5.234	-3.67	6.898	12708	37.1	16.661	0.0041	1.174	0.0260	19.560	0.173
50	5.62	5.233	-0.97	6.897	13702	63.3	16.651	0.0042	1.294	0.0263	21.549	0.261
60	6.12	5.233	-1.60	6.896	14368	70.4	16.640	0.0041	1.388	0.0269	23.093	0.265
70	6.76	5.233	-1.04	6.896	14936	56.7	16.635	0.0046	1.453	0.0364	24.165	0.280
80	7.81	5.233	-1.21	6.895	15440	50.3	16.625	0.0044	1.515	0.0262	25.183	0.310
90	7.64	5.233	-1.29	6.895	15807	42.0	16.620	0.0063	1.557	0.0257	25.882	0.295
100	7.35	5.234	-1.69	6.900	16773	32.8	16.610	0.0063	1.559	0.1192	25.888	0.284

Measurement Results 3:

| Output | Thrust [G] | | Torque [G cm] | | RPM [1/min] | | Voltage [V] | | Current [A] | | Pin [W] | ThrustEff |
[%]	mean	std dev	mean	std dev	mean	std dev	mean	std dev	mean	std dev		[G/W]
20	-0.31	3.379	-0.03	6.170	8447	40.8	16.653	0.0037	0.686	0.0254	11.416	-0.027
30	4.52	2.914	0.09	6.126	11151	32.1	16.638	0.0056	0.981	0.0357	16.326	0.277
40	6.04	2.915	1.26	6.125	12729	46.1	16.626	0.0054	1.173	0.0255	19.510	0.310
50	8.43	2.911	3.87	6.124	13683	65.5	16.616	0.0046	1.280	0.0221	21.264	0.397
60	8.65	2.912	3.39	6.124	14353	67.5	16.606	0.0055	1.384	0.0332	22.987	0.376
70	9.41	2.911	3.54	6.124	14929	53.7	16.599	0.0039	1.444	0.0528	23.973	0.393
80	10.37	2.912	3.55	6.123	15400	41.9	16.589	0.0036	1.515	0.0313	25.139	0.412
90	10.36	2.911	3.45	6.123	15775	38.9	16.584	0.0058	1.531	0.0259	25.386	0.408
100	9.81	2.911	2.72	6.125	16710	46.6	16.574	0.0055	1.571	0.1057	26.030	0.377

Measurement Results 4:

Output [%]	Thrust [G] mean	std dev	Torque [G cm] mean	std dev	RPM [1/min] mean	std dev	Voltage [V] mean	std dev	Current [A] mean	std dev	Pin [W]	ThrustEff [G/W]
20	1.80	7.368	7.33	1.488	8455	34.4	16.621	0.0060	0.684	0.0302	11.371	0.158
30	1.30	7.362	6.82	1.457	11119	27.4	16.604	0.0053	0.978	0.0389	16.236	0.080
40	2.84	7.362	7.54	1.456	12683	43.9	16.591	0.0044	1.168	0.0300	19.376	0.147
50	4.00	7.361	7.31	1.451	13637	59.8	16.579	0.0036	1.288	0.0359	21.362	0.187
60	3.41	7.361	6.68	1.448	14336	68.9	16.573	0.0059	1.384	0.0289	22.936	0.149
70	4.24	7.363	6.81	1.450	14895	57.7	16.563	0.0041	1.430	0.0531	23.682	0.179
80	5.36	7.362	6.87	1.447	15392	40.2	16.555	0.0037	1.503	0.0377	24.877	0.215
90	5.89	7.362	6.84	1.447	15753	40.5	16.548	0.0059	1.528	0.0302	25.289	0.233
100	5.45	7.361	6.41	1.455	16675	46.7	16.543	0.0060	1.561	0.1010	25.822	0.211

Measurement Results 5:

Output [%]	Thrust [G] mean	std dev	Torque [G cm] mean	std dev	RPM [1/min] mean	std dev	Voltage [V] mean	std dev	Current [A] mean	std dev	Pin [W]	ThrustEff [G/W]
20	-0.26	4.257	8.05	2.213	8500	37.7	16.583	0.0064	0.657	0.0329	10.899	-0.024
30	-1.73	4.246	7.15	2.157	11169	31.1	16.570	0.0037	0.966	0.0374	16.006	-0.108
40	-0.25	4.247	8.06	2.152	12706	44.7	16.557	0.0053	1.157	0.0294	19.148	-0.013
50	0.24	4.246	8.00	2.147	13658	66.3	16.546	0.0063	1.282	0.0271	21.205	0.011
60	0.07	4.246	7.46	2.151	14333	69.2	16.543	0.0041	1.349	0.0277	22.313	0.003
70	0.64	4.248	7.67	2.150	14904	69.3	16.530	0.0057	1.446	0.0380	23.907	0.027
80	1.34	4.252	7.71	2.145	15386	38.1	16.525	0.0039	1.489	0.0341	24.606	0.054
90	1.87	4.246	7.54	2.147	15740	46.8	16.516	0.0039	1.513	0.0296	24.983	0.075
100	1.60	4.248	7.28	2.159	16654	36.8	16.509	0.0057	1.519	0.0917	25.081	0.064

Plots for Measurement Results: