

SailServo

Hitec HS-785HB analog

Test Equipment

[Test Rig www.youtube.com/watch?v=x-auOHbFBwU](http://www.youtube.com/watch?v=x-auOHbFBwU)

Transmitter/Receiver:- Spectrum Dx5e/AR500 Rudder Ch4 Hi Mode Output 1.16 / 1.88ms =0.72ms 3.5/9v 5A
Bench supply 6.0v

- Measured drum rotation and travel at no load
- Short** Distance drum does not rotate back to zero when pulled in
- Long** Drum rotation increases as more load is applied
- Time to pull in 100mm cord. Sec/100mm

- Full travel achieved
 - Upto 4mm +/- travel
 - 5 - 10mm +/- travel
 - 11 - 25mm +/- travel
- Circumference Drum
119.4 mm 38mm

Speed Drop Bands
Band 10% = Above 90%
Band 20% = 80 - 90%
Band 30% = 70 - 80%
Band 40% = 60 - 70%

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Sheet travel 800 to 2200us = 6 turns + 160 = 2320 degrees = 840mm

6.0v		Torque stall/standing 13.2/10.5Kg.cm Speed 1.1/100mm 0.25/1.8A										Running				Hold		
Kg .cm	Load	Short deg mm	Turns deg	Travel mm	Long deg mm	Total Travel	Time	sec/100mm	Band	%	V	CA	W	%	V	CA	W	
0.0	0.0		1240	435		435	5.5	1.3		100	5.98	0.09	0.5	10	6.01	0.00	0.0	
1.0	0.5	-10 -3	1230	432		432	6.5	1.5		87	5.95	0.18	1.1	21	5.98	0.08	0.5	
1.9	1.0	-10 -3	1230	432	15 5	437	7.0	1.6	20%	81	5.92	0.26	1.5	30	5.96	0.15	0.9	
2.9	1.5	-30 -10	1210	425	20 7	432	7.4	1.7	30%	76	5.89	0.35	2.1	40	5.93	0.23	1.4	
3.8	2.0	-30 -10	1210	425	30 10	435	8.1	1.9	40%	68	5.85	0.45	2.6	50	5.90	0.31	1.8	
4.8	2.5	-50 -17	1190	418	40 13	432	9.0	2.1		62	5.82	0.52	3.0	59	5.88	0.39	2.3	
5.7	3.0	-60 -20	1180	415	50 17	432	10.1	2.3	50%	59	5.80	0.60	3.5	68	5.85	0.45	2.6	