UAV MOTORS

MTS 8110X 140KV

8110X-140

8110 motor for 22-30" propellers



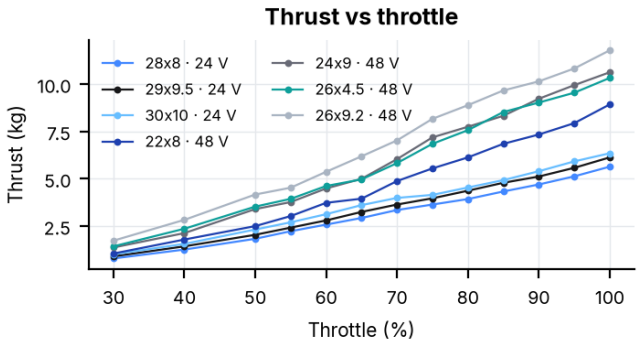
KEY SPECIFICATIONS

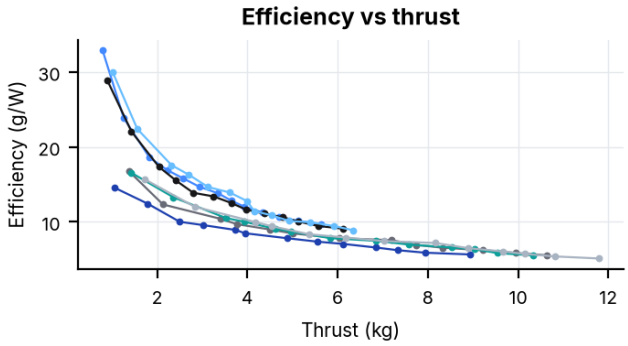
PARAMETER	VALUE
Product code	8110X-140
Category	UAV Motors
Stator size	8110
KV rating	140KV
Battery voltage	24 V
Propeller range	22-30"
Weight	303 g

OVERVIEW

For use with drones using 22 to 30" propellers in heavy lift and agricultural drones. Available in various KV to match battery voltage.

PERFORMANCE AT A GLANCE





MECHANICAL

PARAMETER	VALUE
Diameter	88.6 mm
Body length (excl. shaft)	37.9 mm
Shaft diameter	7.8 mm
Shaft length	30.5 mm
Mounting pattern	44 x 44 mm, M3
Lead wires	Custom length to order

PERFORMANCE DATA

	PROP 28x8 · 24 V				PROP 29x9.5 · 24 V			
THROTTLE	AMPS (A)	POWER (W)	THRUST (g)	g/W	AMPS (A)	POWER (W)	THRUST (g)	g/W
30%	1.0	24	790	32.92	1.3	31	900	28.85
40%	2.2	53	1260	23.86	2.7	65	1430	22.07
50%	4.1	98	1830	18.60	4.9	118	2040	17.35
55%	5.5	132	2230	16.89	6.5	156	2420	15.51
60%	6.8	163	2580	15.81	8.4	202	2800	13.89
65%	8.3	199	2930	14.71	10.1	242	3250	13.41
70%	10.1	242	3350	13.82	12.1	290	3640	12.53
75%	11.8	283	3640	12.85	14.2	341	3970	11.65
80%	13.6	326	3930	12.04	16.4	394	4370	11.10
85%	16.0	384	4330	11.28	18.8	451	4790	10.62
90%	18.4	442	4700	10.64	21.2	509	5120	10.06
95%	21.1	506	5130	10.13	24.6	590	5580	9.45
100%	24.2	581	5640	9.71	28.1	674	6130	9.09

	PROP 30x10 · 24 V				PROP 22x8 · 48 V			
THROTTLE	AMPS (A)	POWER (W)	THRUST (g)	g/W	AMPS (A)	POWER (W)	THRUST (g)	g/W
30%	1.4	34	1010	30.06	1.5	72	1050	14.58
40%	2.9	70	1560	22.41	3.0	144	1790	12.43
50%	5.5	132	2320	17.58	5.2	250	2500	10.02
55%	6.9	166	2700	16.30	6.6	317	3030	9.56
60%	8.9	214	3130	14.65	8.7	418	3730	8.93
65%	10.8	259	3610	13.93	9.7	466	3950	8.48
70%	13.0	312	3990	12.79	13.0	624	4880	7.82
75%	15.1	362	4150	11.45	15.7	754	5550	7.36
80%	17.4	418	4540	10.87	18.1	869	6130	7.06
85%	20.3	487	4930	10.12	21.7	1042	6850	6.58
90%	22.6	542	5400	9.96	24.6	1181	7340	6.22
95%	26.1	626	5920	9.45	28.1	1349	7940	5.89
100%	29.8	715	6350	8.88	32.9	1579	8930	5.65

	PROP 24x9 · 48 V				PROP 26x4.5 · 48 V			
THROTTLE	AMPS (A)	POWER (W)	THRUST (g)	g/W	AMPS (A)	POWER (W)	THRUST (g)	g/W
30%	1.7	82	1370	16.79	1.8	86	1430	16.55
40%	3.6	173	2130	12.33	3.7	178	2360	13.29
50%	6.8	326	3400	10.42	7.0	336	3530	10.51
55%	8.1	389	3770	9.70	8.2	394	3940	10.01
60%	10.4	499	4490	8.99	10.6	509	4620	9.08
65%	12.3	590	5000	8.47	11.9	571	4970	8.70
70%	16.1	773	6040	7.82	15.5	744	5830	7.84
75%	19.8	950	7190	7.57	19.1	917	6850	7.47
80%	23.3	1118	7750	6.93	22.6	1085	7570	6.98
85%	26.5	1272	8330	6.55	27.0	1296	8530	6.58
90%	30.9	1483	9230	6.22	29.6	1421	9030	6.36
95%	35.4	1699	9950	5.86	34.1	1637	9550	5.83
100%	39.9	1915	10630	5.55	38.9	1867	10330	5.53

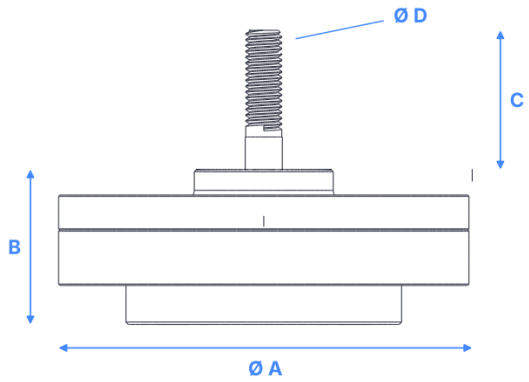
	PROP 26x9.2 · 48 V			
THROTTLE	AMPS (A)	POWER (W)	THRUST (g)	g/W
30%	2.3	110	1730	15.67
40%	4.9	235	2830	12.03
50%	8.7	418	4170	9.99
55%	10.0	480	4530	9.44
60%	13.4	643	5370	8.35
65%	16.3	782	6190	7.91
70%	19.7	946	7030	7.43
75%	23.7	1138	8170	7.18
80%	28.5	1368	8890	6.50
85%	33.3	1598	9670	6.05
90%	37.0	1776	10150	5.72
95%	41.9	2011	10830	5.38
100%	48.0	2304	11790	5.12

— ORDERING & CUSTOMISATION

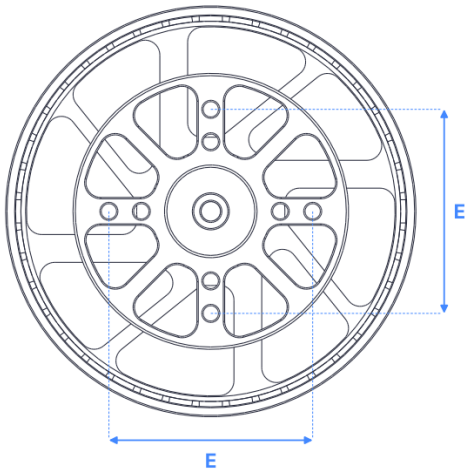
PARAMETER	VALUE
Standard model	8110X-140
Custom options	KV and size to spec
Enquiries	contact@motortechnic.sg

MECHANICAL DRAWING

SIDE VIEW



MOUNTING FACE



Ø A Diameter = 88.6 mm
B Length (excl. shaft) = 37.9 mm
C Shaft length = 30.5 mm
Ø D Shaft diameter = 7.8 mm
E x E Mounting pattern (across opposite holes) = 44 x 44 mm
Mounting thread = M3
Lead wires = custom length to order

MTS 8110X · MECHANICAL DRAWING
DRAWN FROM THE CAD MODEL · DIMENSIONS IN MM
Dimensions from engineering data. Not for manufacture.