

VAX 5330 VTOL Drone Brushless DC Motor

Basic Information

• Place of Origin: Guangdong, China

• Brand Name: GS

Model Number: 5330 220KV 260KV

Price: Negotiable

Delivery Time: 6-8Payment Terms: T/TSupply Ability: 100



Product Specification

Motor Model: VAX 5330 EEE V1.0
Motor Size: D:61.1 X63 Mm
Propeller Mounting Holes: D:31 M3x4, D:20 M3x4

• Shaft Diameter: IN: 8 Mm

• Bearing: 688ZZ*2/1980*1

• Cable Length: 150 Mm 14# Awg(Black) Silicone

Rotor Balance: ≤5 Mg Motor Balance: ≤10 Mg

• Motor Mounting Holes: D:30 M4x4, D:44 M4x4

• Disruptive Test: 500 V

• Highlight: Drone Brushless DC Motor,

VAX 5330 Brushless DC Motor



More Images









VAX 5330 VTOL Drone Brushless DC Motor

1. Designed for VTOL, AIRCRAFT, XCLASS to carry 8-10 kg, supports 12S voltage.
2. For long range flight. It also retains the excellent features and characteristics of the previous generation and improves the safety and durability of the motor, which fully meets the demanding requirements of various industries.

ENERGY EFFICIENT 220KV ENTHUSIASTS EXTREME EDITION

4.0~5.0 kgf

RECOMMENDED HOVER THRUST

RECOMMENDED THRUST MAXIMUM MAXIM MAXIMUM MAXIMUM MAXIMUM MAXIMUM MAXIM

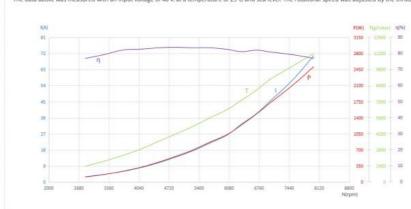
MAD VAX 5330 EEE 220KV 20x10 AMPX 80A (5-14S)

 $\begin{array}{ll} \text{OPTIMIZED} & 570\,g & \text{efficiency} > \!83\% \\ \end{array}$

125

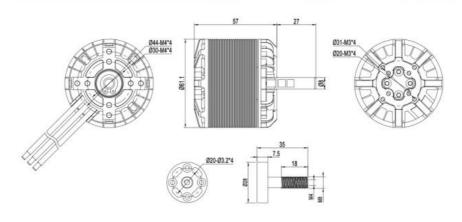
MAX 93°C

I – Current, P – Input Power, η – Electrical Efficiency, T – Thrust, N – Rotational Speed
The data above was measured with an input voltage of 48 V, at a temperature of 25°C and sea level. The rotational speed was adjusted by the throttle.



Motor Data			
Motor Model	MAD VAX 5330 EEE V1.0	Number of pole pairs	7
Stator	TAIWAN / Anticorrosive	Varnished wire Degree	180°C
Motor Size	D:61.1 × 84 mm	Magnet Degree	150°C
Degree of Protection	Rain protection	Cable Length	150 mm 14# Awg(Black) silicone
Centrifugal Heat Dissipation	Independent	Rotor Balance	s5 mg
Propeller Mounting Holes	D:31 M3×4, D:20 M3×4	Motor Balance	≤10 mg
Shaft Diameter	IN: 8 mm	Motor Mounting Holes	D:30 M4×4, D:44 M4×4
Bearing	EZO 688ZZ*2 / NMB 1980*1	Disruptive test	500 V
Additional Accessories	Prop Adapter(M8) *1 . Propeller Plate		Shrinkable Tube*3 . M4*12mm *4 Motor Scre

Specifications			
RPM/V	220KV	Nominal Voltage	12S lipo battery
No Load Current	1.35A / 30V	Internal resistance	45mΩ
Motor Weight	570 g	Product Boxed Weight	750g (110 x 110 x 65 mm)
Maximum Current	70.8 A	Maximum Power	3263W
Maximum thrust	11.2 kg	Maximum Torque	3 Nm
Recommended ESC	MAD AMPX 80A (5-14S)	Recommended Propellers	18x12, 19x10, 20x10, 17x8X3
UAV take-off weight	12S-20"/ 17kgQuadcopter 25.5kgHexacopter 34kgOctocopter	Single rotor take-off weight	4kg ~ 5kg



MAD VAX 5330 EEE 220KV 18x12 AMPX 80A (5-14S)

12S MAX 76℃

Throttle [%]	Voltage [V]	Current [A]	Input Power [W]	Output Power [W]	Torque [N×m]	RPM	Thrust (gf)	Efficiency [%]	Efficiency [gf/W]
30	48.23	2.72	131.2	103.0	0.343	2867	1131	78.5	8.6
35	48.20	3.86	186.1	151.0	0.441	3270	1465	81.1	7.9
40	48.14	5.64	271.5	228.4	0.580	3760	1939	84.1	7.1
45	48.08	7.72	371.2	315.2	0.718	4192	2415	84.9	6.5
50	48.02	9.86	473.5	403.7	0.842	4579	2877	85.3	6.1
55	47.94	12.53	600.7	515.2	0.992	4959	3405	85.8	5.7
60	47.82	16.07	768.5	665.2	1.184	5365	4067	86.6	5.3
65	47.72	19.62	936.3	803.7	1.332	5762	4676	85.8	5.0
70	47.57	24.19	1150.7	983.4	1.529	6142	5294	85.5	4.6
75	47.41	29.4	1393.9	1178.6	1.731	6502	5961	84.6	4.3
80	47.25	34.59	1634.4	1368.2	1.914	6826	6625	83.7	4.1
85	47.04	41.28	1941.8	1605.1	2.147	7139	7381	82.7	3.8
90	46.86	46.96	2200.5	1824.0	2.319	7511	8127	82.9	3.7
95	46.63	54.1	2522.7	2057.8	2.509	7832	8706	81.6	3.5
100	46.26	65.46	3028.2	2417.5	2.825	8172	9609	79.8	3.2

MAD VAX 5330 EEE 220KV 19x10 AMPX 80A (5-14S)

12S MAX

84°C

Throttle [%]	Voltage [V]	Current [A]	Input Power [W]	Output Power [W]	Torque [N×m]	RPM	Thrust (gf)	Efficiency [%]	Efficiency [gf/W]
30	48.22	2.72	131.2	94.1	0.314	2862	1264	71.7	9.6
35	48.20	3.85	185.6	139.4	0.407	3271	1657	75.1	8.9
40	48.14	5.63	271.0	214.0	0.543	3764	2205	79	8.1
45	48.08	7.68	369.3	298.6	0.679	4200	2740	80.9	7.4
50	48.01	9.88	474.3	390.8	0.813	4590	3291	82.4	6.9
55	47.93	12.52	600.1	493.6	0.956	4930	3871	82.3	6.5
60	47.84	15.59	745.8	616.6	1.104	5333	4440	82.7	6.0
65	47.72	19.62	936.3	777.0	1,297	5721	5172	83	5.5
70	47.57	24.49	1165.0	968.0	1.504	6146	5969	83.1	5.1
75	47.41	29.71	1408.6	1139.2	1.683	6464	6767	80.9	4.8
80	47.25	34.62	1635.8	1340.9	1.872	6840	7526	82	4.6
85	47.05	40.91	1924.8	1572.4	2.096	7164	8289	81.7	4.3
90	46.88	46.36	2173.4	1761.1	2.251	7471	8990	81	4.1
95	46.62	54.57	2544.1	2026.1	2.491	7767	9881	79.6	3.9
100	46.27	65.01	3008.0	2353.2	2.761	8139	10765	78.2	3.6

MAD VAX 5330 EEE 220KV 20x10 AMPX 80A (5-14S)

125

MAX 93°C

Throttle [%]	Voltage [V]	Current [A]	Input Power [W]	Output Power [W]	Torque [N×m]	RPM	Thrust (gf)	Efficiency [%]	Efficiency [gf/W]
30	48.22	2.94	141.8	109.2	0.369	2827	1374	77	9.7
35	48.19	4.19	201.9	159.9	0.473	3229	1784	79.2	8.8
40	48.13	5.93	285.4	234.7	0.609	3680	2324	82.2	8.1
45	48.06	8.27	397.5	329.1	0.763	4119	2925	82.8	7.4
50	47.98	10.85	520.6	435.4	0.925	4495	3570	83.6	6.9
55	47.89	13.76	659.0	552.9	1.088	4853	4146	83.9	6.3
60	47.79	17.18	821.0	686.0	1.252	5232	4793	83.6	5.8
65	47.65	21.72	1035.0	865.5	1.466	5638	5577	83.6	5.4
70	47.51	26.28	1248.6	1031.5	1.633	6032	6308	82.6	5.1
75	47.32	32.32	1529.4	1241.5	1.865	6357	7113	81.2	4.7
80	47.12	38.59	1818.4	1493.4	2.124	6714	8056	82.1	4.4
85	46.92	45.19	2120.3	1717.0	2.342	7001	8935	81	4.2
90	46.69	52.37	2445.2	1955.2	2.551	7319	9661	80	4.0
95	46.44	59.65	2770.1	2184.4	2.741	7610	10326	78.9	3.7
100	46.08	70.8	3262.5	2513.1	3.002	7994	11194	77	3.4

MAD VAX 5330 EEE 220KV 17x8x3 Carbon Fiber AMPX 80A (5-145)

125

MAX 86°C

Throttle [%]	Voltage [V]	Current [A]	Input Power [W]	Output Power (W)	Torque [N×m]	RPM	Thrust (gf)	Efficiency [%]	Efficiency (gf/W)
30	48.01	2.51	120.5	91.6	0.306	2859	1049	76	8.7
35	47.97	3.98	190.9	150.6	0.422	3408	1540	78.9	8.1
40	47.92	5.35	256.4	203.6	0.507	3834	1912	79.4	7.5
45	47.86	7.15	342.2	277.0	0.621	4259	2365	80.9	6.9
50	47.79	9.83	469.8	383.6	0.772	4745	2959	81.7	6.3
55	47.68	13.2	629.4	517.7	0.946	5226	3635	82.3	5.8
60	47.57	16.88	803.0	660.4	1,114	5661	4257	82.2	5.3
65	47.42	21.35	1012.4	836.7	1,315	6076	5074	82.6	5.0
70	47.29	25.66	1213.5	994.7	1.467	6475	5685	82	4.7
75	47.12	31.31	1475.3	1207.1	1.684	6845	6554	81.8	4.4
80	46.94	37.08	1740.5	1390.7	1.843	7206	7043	79.9	4.0
85	46.74	43.24	2021.0	1627.0	2.060	7542	7784	80.5	3.9
90	46.49	51.14	2377.5	1900.3	2.300	7890	8654	79.9	3.6
95	46.19	60.31	2785.7	2194.1	2.557	8194	9508	78.8	3.4
100	46.00	66.48	3058.1	2367.9	2.653	8523	9849	77.4	3.2

The above data are the theoretical values when the input voltage is 48V, for reference only. In the case of room temperature of 25°C and no additional cooling device, the current over 66A is non-working zone.21-66A is short-term (about 10-30s), working zone, and below 21A is sustainable working zone. In actual use, please control the motor running time according to the working environment temperature and heat dissipation conditions.

ENERGY EFFICIENT 260KV ENTHUSIASTS EXTREME EDITION

5.0~6.0 kgf
RECOMMENDED HOVER THRUST

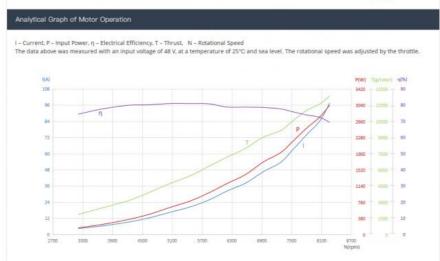
12.8 kgf

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 $_{\text{Weight}}^{\text{OPTIMIZED}} 564g \quad \text{efficiency} > 80\%$

MAD VAX 5330 EEE 260KV 20x10 AMPX 120A (5-14S)

12S HOT



Specifications							
RPM/V	260KV	Nominal Voltage	125 lipo battery				
No Load Current	1.6A / 20V	Internal resistance	21mΩ				
Motor Weight	564 g	Product Boxed Weight	732g (110 x 110 x 65 mm)				
Maximum Current	97 A	Maximum Power	4377W				
Maximum thrust	12.8 kg	Maximum Torque	3.5 Nm				
Recommended ESC	MAD AMPX 120A (5-14S)	Recommended Propellers	18x12, 19x10, 20x10, 17x8x3				
UAV take-off weight	12S-20"/ 22kgQuadcopter 33kgHexacopter 44kgOctocopter	Single rotor take-off weight	5kg ~ 6kg				

MAD VAX 5330 EEE 260KV 18x12 AMPX 120A (5-14S)

125

Throttle [%]	Voltage [V]	Current [A]	Input Power [W]	Output Power [W]	Torque [N×m]	RPM	Thrust [gf]	Efficiency [%]	Efficiency [gf/W]
30	48.09	3.97	190.9	142.6	0.423	3219	1501	74.7	7.9
35	48.02	5.73	275.2	212.6	0.548	3704	1977	77.3	7.2
40	47.93	8.57	410.8	328.1	0.739	4240	2637	79.9	6.4
45	47.84	11.14	532.9	428.4	0.878	4659	3151	80.4	5.9
50	47.72	14.34	684.3	552.7	1.041	5070	3743	80.8	5.5
55	47.60	17.82	848.2	689.2	1.196	5503	4304	81.3	5.1
60	47.40	23.16	1097.8	892.3	1,445	5897	5147	81.3	4.7
65	47.24	28.19	1331.7	1056.9	1.600	6308	5707	79.4	4.3
70	47.01	35.07	1648.6	1331.3	1.896	6705	6684	80.8	4.1
75	46.78	42.06	1967.6	1579.7	2.127	7092	7524	80.3	3.8
80	46.57	49.12	2287.5	1808.3	2.316	7456	8247	79.1	3.6
85	46.27	57.6	2665.2	2079.6	2.569	7730	9107	78	3.4
90	45.92	66.33	3045.9	2346.0	2.785	8044	9804	77	3.2
95	45.58	76.81	3501.0	2642.7	3.035	8315	10312	75,5	2.9
100	45.26	87.3	3951.2	2899.8	3.230	8573	11010	73.4	2.8

htil	11-11		Input		******			emil	88
hrottle [%]	Voltage [V]	Current [A]	Power [W]	Output Power [W]	Torque [N×m]	RPM	Thrust [gf]	Efficiency [%]	Effici Egf
30	48.09	3.97	190.9	142.6	0.423	3219	1501	74.7	7.
35	48.02	5.73	275.2	212.6	0.548	3704	1977	77.3	7.
40	47.93	8.57	410.8	328.1	0.739	4240	2637	79.9	6.
45	47.84	11.14	532.9	428.4	0.878	4659	3151	80.4	5.
50	47.72	14.34	684.3	552.7	1.041	5070	3743	80.8	5.
55	47.60	17.82	848.2	689.2	1.196	5503	4304	81.3	5.
60	47.40	23.16	1097.8	892.3	1.445	5897	5147	81.3	4.
65	47.24	28,19	1331.7	1056.9	1,600	6308	5707	79.4	4.
70	47.01	35.07	1648.6	1331.3	1.896	6705	6684	80.8	4.
75	46.78	42.06	1967.6	1579.7	2.127	7092	7524	80.3	3.
80	46.57	49.12	2287.5	1808.3	2.316	7456	8247	79.1	3.
85	46.27	57.6	2665.2	2079.6	2.569	7730	9107	78	3.
90	45.92	66,33	3045.9	2346.0	2.785	8044	9804	77	3.
95	45.58	76.81	3501.0	2642.7	3.035	8315	10312	75.5	2.
100	45.26	87.3	3951.2	2899.8	3.230	8573	11010	73.4	2.
MAD V	AX 5330 EEE	260KV 20:	x10 AMF	X 120A (5-149	5)			125	Н
hrottle [%]	Voltage [V]	Current [A]	Input Power	Output Power [W]	Torque [N×m]	RPM	Thrust (gf)	Efficiency [%]	Effici
123	575	177	[W]	1880	******		1811	157	181
30	48.08	4.4	211.6	157.5	0.468	3214	1865	74.4	8.
35	48.01	6.38	306.3	237.6	0.614	3696	2473	77.6	8.
40	47.92	9.35	448.1	358.2	0.807	4239	3172	79.9	7.
45	47.82	12.48	596.8	478.9	0.984	4648	3922	80.2	6.
50	47.69	16.34	779.3	630.1	1,194	5039	4704	80.9	6.
55	47.55	20.41	970.5	784.9	1.374	5455	5432	80.9	5.
60	47.36	25.8	1221.9	986.0	1.610	5848	6349	80.7	5.
65	47.13	32.13	1514.3	1192.6	1.839	6193	7151	78.8	4.
70	46.93	38.21	1793.2	1411.2	2.049	6577	7997	78.7	4.
75	46.61	46.46	2165.5	1700.6	2.345	6925	9015	78.5	4.
80	46.27 45.90	53.61 63.02	2480.5 2892.6	1926.0	2.526	7281	9635 10536	77.6 75.8	3.
90	45.68	73.87	3374.4	2192.6	3.054	7526 7797	11492	73.9	3.
95	45.26	84.21	3811.3	2759.2	3.267	8065	12096	72.4	3.
100	44.97	97.34	4377.4	3034.6	3.507	8263	12833	69.3	2.
100	44.97	97.34	43/7.4	3034.6	3.507	8263	12833		M
MAD VA	AX 5330 EEE	260KV 17 x	8x3 Carbo	n Fiber AMP	X 120A (5-1	4S)		125	95
hrottle [%]	Voltage [V]	Current [A]	Input Power	Output Power [W]	Torque [N×m]	RPM	Thrust (gf)	Efficiency [%]	Effici [gf
50,000	57670	HVON	[W]	Suparati:	1 820 (02		200000	11166	1000
30	48.11	4.16	200.1	147.1	0.414	3393	1573	73.5	7.
35	48.06	5.96	286.4	219.9	0.539	3896	2039	76.8	7.
40	48.02	8.22	394.7	308.7	0.672	4386	2553	78.2	6.
45	47.94	11.42	547.5	439.2	0.854	4911	3276	80.2	6.
50	47.85	15.81	756.5	612.7	1.068	5478	4111	81	5.
55	47.73 47.60	20.49	978.0 1240.9	793.5 1004.0	1,272	5957 6409	4828 5742	81.1	4.
60	47.48	32.15	1526.5	1223.9		6409		80.9	4.
65	47.48	38.94	1842.6	1474.0	1.714	7233	6584 7398		4.
70 75	47.17	45.66	2153,8		2.147	7605	7398 8234	80 79.4	3.
80	46.94	45.66 55.23	2592.5	1709.9 2025.4	2.147	7605 8012	9096	79.4	3.
85	46.72	65.28	3049.9	2330.9	2.660	8368	9949	76.4	3.
	46.72	76.66	3560.1	2652.7	2.660	8678	10755	74.5	3.
	190,449	88.9	4102.7	2962.1	3.152	8974	11526	72.2	2.
90	46.15				3.136	0374	11020	1616	2
	46.15 45.73	105.97	4846.0	3316.8	3.405	9302	12268	68.4	2.

Our Services

- 1. We provide 1 Year Warranty. Buy with confidence.
 2. If you are not satisfied when you receive your item, please return it within 14 days for a replacement or money back. Please contact me before you return it.

 3. If item is defective in 3 months, We will send you a replacement without extra charger, or offer refund after we receive the
- defective item.
- 4. If item is defective after 3 months, you can still send it back to us. We will send you a new one after receiving the defective item. But you have to pay the extra shipping fee.



FAQ

Q1: Do you support OEM/ODM?

A1: Yes. We can print your logo on the product.

Q2: About samples.

A2: Under normal circumstances, samples will be ready within 7 days, and 10-20 days for OEM/ODM orders. Sample fee and shipping will be charged.

Q3: What is the delivery time?

A3: For regular orders, we can ship within 15 days, for OEM/ODM, we can ship within 25-45 days (depending on the quantity). In the event of delays, we will notify you in advance of the status and resolution.

Q4: What is the minimum order quantity?

A4: There is no MOQ for wholesale (1 piece accepted), including OEM/ODM.

Q5: What are your payment terms?

A5: L/C.TT100%.

Q6: Can you reduce the shipping cost?

A6: When calculating the shipping cost for you, we always choose the cheapest and safest express. Although we have partnerships with shipping companies, we can't keep costs down because it's not us who get paid. If you think it's expensive for you. You can always make your own choice.

Q7: Return policy.

A7: If you want to replace the received item, you must contact us within 7 days after receiving the item. Returned items should be in their original condition and you should pay for additional shipping.



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