



Brushless Motor HB40 57X19 drone arm set

Our Product Introduction

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Basic Information

- Place of Origin: Guangdong, China
- Brand Name: GS
- Model Number: HB40 57X19
- Price: Negotiable
- Delivery Time: 6-8
- Payment Terms: T/T
- Supply Ability: 100



Product Specification

- Motor Model: M50C35 EEE V2.0
- Motor Size: D:191 X 94 Mm
- Internal Resistance: 174.5 MΩ
- No Load Current: 0.92A/30V
- Motor Weight: 4200 G
- Recommended Continue Thrust: 40 Kg
- Nominal Voltage: 354V-400V
- Maximum Current: 55.5 A
- Maximum Power: 19770W
- Maximum Thrust: 90.6 Kg
- Highlight: **HB40 57X19 drone arm set, Brushless Motor drone arm set**



More Images



Product Description

Brushless Motor HB40 57X19 drone arm set

The drone arm set (motor, ESC, propeller) is not sold separately as it is an integrated combo with the FOC ESC included. Each rotor provides a continuous thrust of 40kg(88.1BL) and has a maximum power output of 19 KW, equivalent to 25 hp. It is designed for large multi-rotor/e-VTOL drones capable of carrying heavy loads, flying car, delivery drone, urban mobility.

ESC Model	SineSic Pro 80A 16KW(150V~435V)	Weight	1400g
Size(L*W*H)	197.0*88.0*59.5 mm	Continuous Current	80A (under good cooling)
Protection Level	IP67	Instant Current	150A (under good cooling)
Recommended Battery	96~100S LiPO	PWM Input signal Voltage	3.3V/5V
Cable Length(input)	690 mm (10AwG Silicone Flexible Wire)	Cable Length(signal)	1250 mm (9-Core Pvc Flexible Wire)
Cable Length(output)	600 mm(10AWG silicone Flexible Wire)	Cable Length(LED wire)	155 mm (4-Core Pvc Flexible Wire with Waterproof Connector)

The drone arm set with great weight to power ratio is specially designed for high-capacity multi-rotor, e-VTOL application, very suitable for heavy payload lifting drones.

The recommended operating voltage range 100-600V

This propulsion system unit with motor, ESC, propeller and its compatibility to serve well in large-scale aircraft with optimal power

Utilizing high-quality aviation-grade aluminum enhances both safety measures and utilization of durability.

Stable rotation and anti-fall properties guaranteed by Japanese bearing.

Moreover, the incorporation of high-performance curved magnets and resistant to elevated temperatures which resulting in a remarkable performance increase by 5%

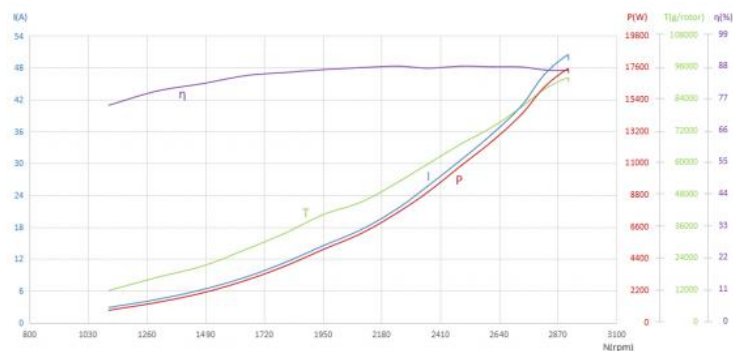


Hummingbird **HB40** **CB2** PROP 60x19 MATT **SineSic Pro** 80A 16KW (150V-435V)

400V

Analytical Graph of Motor Operation

I – Current, P – Input Power, η – Electrical Efficiency, T – Thrust, N – Rotational Speed
The data above was measured with an input voltage of 400 V, at a temperature of 25°C and sea level. The rotational speed was adjusted by the throttle.



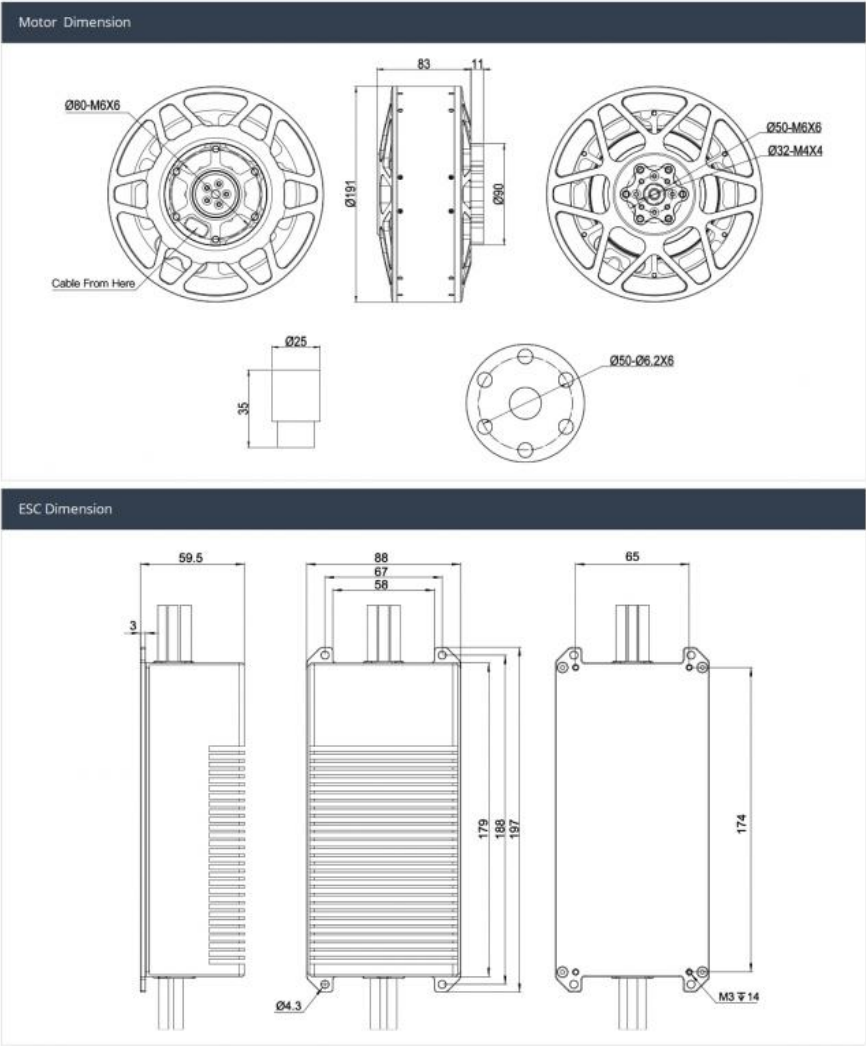
BASIC PARAMATER

Motor Data			
Motor Model	MAD M50C35 EEE V2.0	Nominal Voltage	354V-400V
RPM/V	9 KV	Cable Length	150 mm (extended Enameled wires)
Motor Size	D:191 × 94 mm	Maximum Current	55.5 A
Internal resistance	174.5 mΩ	Maximum Power	19770W
No Load Current	0.92A / 30V	Maximum thrust	90.6 kg
Motor Weight	4200 g	Shaft Diameter	IN: 25 mm
Recommended Continue thrust	40 kg	Stator	TAIWAN / Anticorrosive

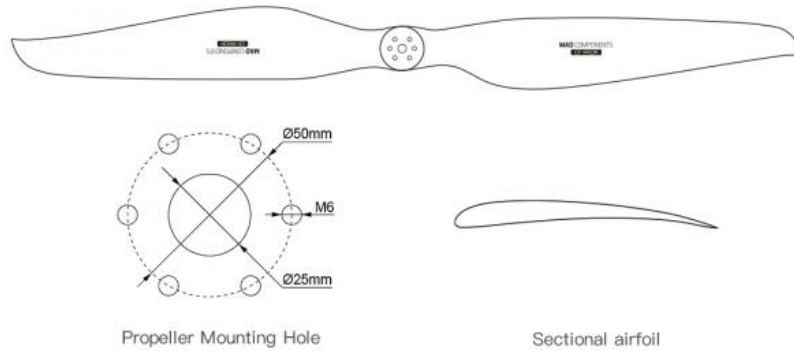
ESC Data			
ESC Model	SineSic Pro 80A 16KW (150V~435V)	Weight	1400g
Size(L*W*H)	197.0*88.0*59.5 mm	Continuous Current	80A (under good cooling)
Protection Level	IP67	Instant Current	150A (under good cooling)
Recommended Battery	96~ 100S LiPo	PWM Input Signal Voltage	3.3V/5V
Cable Length(input)	685mm	Cable Length(Signal)	1175mm
Cable Length(output)	A:265mm / B:295mm / C:315mm	Cable Length(LED wire)	145 mm

Propellers Data			
Propellers Model	CB2 57X19 MATT (1447.8 x 482.6mm)	Single Weight	790 g
Material	High quality carbon fiber + Resin	Type	fixed

PRODUCT DRAWING



Propellers Dimension



TEST DATA

Hummingbird **HB40** CB2 PROP 57x19 MATT SineSic Pro 80A 16KW (150V~435V)

354V

Throttle [%]	Voltage [V]	Current [A]	Input Power [W]	Output Power [W]	Torque [N·m]	RPM	Thrust [gf]	Efficiency [%]	Efficiency [gf/W]
30	353.67	3.16	1117.6	864.9	7.447	1109	12063	77.4	10.8
35	353.69	4.79	1694.2	1378.4	10.164	1295	16706	81.4	9.9
40	353.69	7.01	2479.4	2084.5	13.523	1472	22033	84.1	8.9
45	353.73	9.81	3470.1	2986.9	17.445	1635	28056	86.1	8.1
50	353.68	12.61	4459.9	3917.9	20.659	1811	33513	87.8	7.5
55	353.67	15.8	5588.0	4911.4	24.064	1949	39151	87.9	7.0
60	353.7	19.98	7066.9	6238.7	28.437	2095	45591	88.3	6.5
65	353.68	24.21	8562.6	7538.4	32.470	2217	51882	88	6.1
70	353.61	28.33	10017.8	8893.2	36.061	2355	57466	88.8	5.7
75	353.62	34.57	12224.6	10841.6	41.729	2481	66092	88.7	5.4
80	353.6	38.65	13666.6	12158.5	44.332	2619	71351	89	5.2
85	353.6	45.31	16021.6	14263.6	49.729	2739	78803	89	4.9
90	353.53	52.65	18613.4	16391.3	55.134	2839	86573	88.1	4.7
95	353.57	56.61	20015.6	17440.1	57.270	2908	90082	87.1	4.5
100	353.56	55.46	19608.4	17101.2	56.585	2886	89686	87.2	4.6

Hummingbird **HB40** CB2 PROP 57x19 MATT SineSic Pro 80A 16KW (150V~435V)

400V

Throttle [%]	Voltage [V]	Current [A]	Input Power [W]	Output Power [W]	Torque [N·m]	RPM	Thrust [gf]	Efficiency [%]	Efficiency [gf/W]
30	399.41	2.82	1126.3	844.5	7.259	1111	12034	75	10.7
35	399.44	4.34	1733.6	1385.3	10.176	1300	16983	79.9	9.8
40	399.41	6.22	2484.3	2050.5	13.230	1480	21296	82.5	8.6
45	399.4	8.63	3446.8	2938.4	16.975	1653	27713	85.3	8.0
50	399.41	11.27	4501.4	3884.7	20.609	1800	33574	86.3	7.5
55	399.35	14.47	5778.6	5044.1	24.676	1952	40641	87.3	7.0
60	399.36	17.57	7016.8	6177.5	28.051	2103	45483	88	6.5
65	399.36	21.61	8630.2	7636.1	32.452	2247	53044	88.5	6.1
70	399.41	25.65	10244.9	8990.4	36.378	2360	59625	87.8	5.8
75	399.41	30.69	12257.9	10849.4	41.558	2493	67324	88.5	5.5
80	399.36	35.54	14193.3	12529.2	45.771	2614	73653	88.3	5.2
85	399.29	40.81	16295.0	14370.3	50.303	2728	81161	88.2	5.0
90	399.32	46.8	18688.2	16290.2	55.163	2820	87958	87.2	4.7
95	399.31	50.38	20117.2	17512.3	57.487	2909	92089	87.1	4.6
100	399.31	49.51	19769.8	17263.0	56.591	2913	90649	87.3	4.6

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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