



## HB60 64X20 drone arm set Heavy load brushless motor

### Our Product Introduction

#### Basic Information

- Place of Origin: Guangdong, China
- Brand Name: GS
- Model Number: HB60 64X20
- Price: Negotiable
- Delivery Time: 6-8
- Payment Terms: T/T
- Supply Ability: 100



#### Product Specification

- Motor Model: M5OC60 IPE V1.0
- Motor Size: D:196 X 118.5 Mm
- Internal Resistance: 65 MΩ
- No Load Current: 1.5A/ 30V
- Motor Weight: 7200 G
- Recommended Continue Thrust: 60 Kg
- Nominal Voltage: 354V-400V
- Maximum Current: 68.3 A
- Maximum Power: 24637W
- Maximum Thrust: 114.4 Kg
- Highlight: HB60 64X20 drone arm set, drone arm set 1400g



#### More Images



## Product Description

### HB60 64X20 drone arm set Heavy load brushless motor

The HB60-64X20 Hummingbird drone arm set (motor, ESC, propeller) is not sold separately as it is an integrated combo with the FOC ESC included. Each combo provides a continuous thrust of 60kg(132.2lb) and has a maximum power output of 24KW, equivalent to 32 hp. The combo is specifically 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 Wirewith Waterproof Connector)

The HB60 64X20 drone arm set, equipped with heavy-duty brushless motors, is a powerful and versatile solution for large UAVs that require powerful propulsion to handle heavy loads. Its design ensures high thrust, durability and stability, making it ideal for industrial, commercial and professional drone applications where performance and reliability are critical.



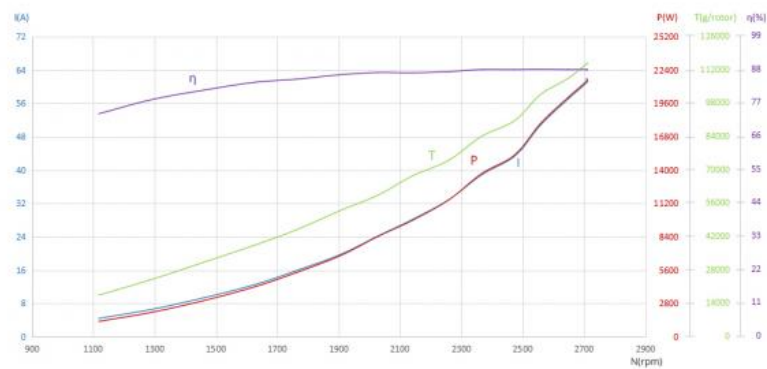
Hummingbird HB60 CB2 PROP 64X20 MATT SineSic Pro 80A 16KW (150V~435V)

400V

#### Analytical Graph of Motor Operation

I – Current, P – Input Power,  $\eta$  – 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.



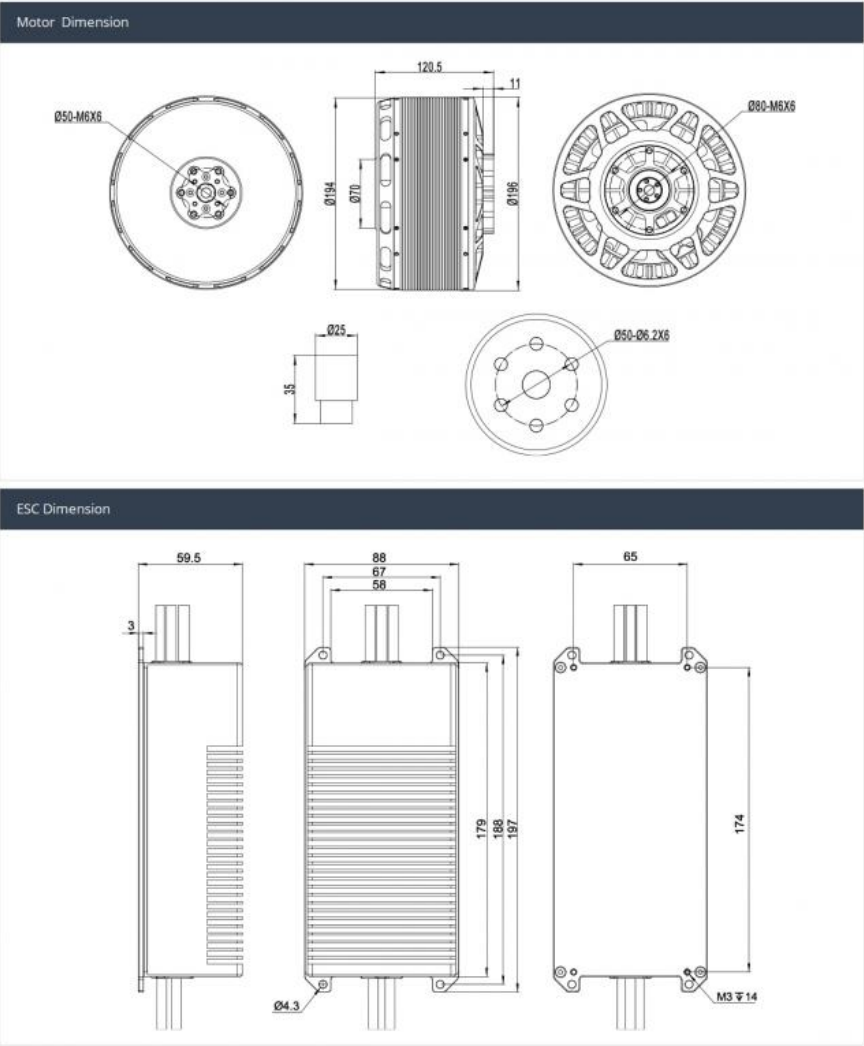
#### BASIC PARAMATER

Motor Data			
Motor Model	MAD M50C60 IPE V1.0	Nominal Voltage	354V~400V
RPM/V	10 KV	Cable Length	150 mm (extended Enameled wires)
Motor Size	D:196 × 118.5 mm	Maximum Current	68.3 A
Internal resistance	65 mΩ	Maximum Power	24637W
No Load Current	1.5A / 30V	Maximum thrust	114.4 kg
Motor Weight	7200 g	Shaft Diameter	IN: 25 mm
Recommended Continue thrust	60 kg	Stator	TAIWAN / Anticorrosive

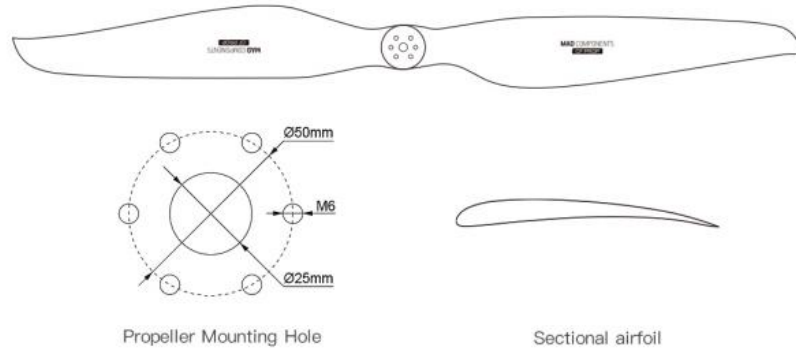
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Protection Level	IP67	Instant Current	150A (under good cooling )
Recommended Battery	96~ 100S LiPo	PWM Input Signal Voltage	3.3V/5V
Cable Length(input)	685mm	Cable Length(Signal)	1175mm
Cable Length(output)	A:265mm / B:295mm / C:315mm	Cable Length(LED wire)	145 mm

Propellers Data			
Propellers Model	CB2 64X20 MATT (1625.6 x 508mm)	Single Weight	885 g
Material	High quality carbon fiber + Resin	Type	fixed

PRODUCT DRAWING



## Propellers Dimension



## TEST DATA

Hummingbird **HB60** **CB2** PROP 64x20 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	353.7	5.03	1779.1	1391.6	11.626	1143	17353	78.2	9.8
35	353.65	7.62	2694.8	2159.7	16.000	1289	23929	80.1	8.9
40	353.7	10.28	3636.0	3012.8	19.638	1465	30042	82.9	8.3
45	353.69	13.79	4877.4	4149.2	24.534	1615	37372	85.1	7.7
50	353.69	17.7	6260.3	5385.6	29.204	1761	44290	86	7.1
55	353.63	22.53	7967.3	6953.0	35.056	1894	52335	87.3	6.6
60	353.61	26.8	9476.7	8311.0	39.192	2025	59523	87.7	6.3
65	353.62	31.69	11206.2	9850.0	44.098	2133	67655	87.9	6.0
70	353.65	36.45	12890.5	11402.7	48.373	2251	73317	88.5	5.7
75	353.61	42.33	14968.3	13351.6	53.774	2371	82256	89.2	5.5
80	353.54	49.13	17369.4	15499.7	59.972	2468	91225	89.2	5.3
85	353.56	57.39	20290.8	18025.9	67.240	2560	100770	88.8	5.0
90	353.51	64.09	22656.5	20110.6	72.551	2647	108212	88.8	4.8
95	353.51	68.89	24353.3	21536.5	76.001	2706	113475	88.4	4.7
100	353.52	68.34	24159.6	21368.8	75.409	2706	111456	88.4	4.6

Hummingbird **HB60** **CB2** PROP 64x20 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	399.39	4.42	1765.3	1298.8	11.094	1118	17514	73.6	9.9
35	399.39	6.63	2648.0	2072.8	15.320	1292	24172	78.3	9.1
40	399.43	9.39	3750.6	3053.2	19.956	1461	31382	81.4	8.4
45	399.41	12.58	5024.6	4219.8	24.752	1628	38589	84	7.7
50	399.43	15.87	6339.0	5391.1	29.234	1761	44907	85	7.1
55	399.39	19.84	7923.9	6853.5	34.301	1908	53178	86.5	6.7
60	399.37	24.17	9652.8	8421.7	39.675	2027	59431	87.2	6.2
65	399.29	28.14	11236.0	9782.9	43.654	2140	67535	87.1	6.0
70	399.38	32.88	13131.6	11492.8	48.604	2258	74092	87.5	5.6
75	399.29	38.98	15564.3	13731.2	55.373	2368	84323	88.2	5.4
80	399.31	43.27	17278.1	15235.4	58.854	2472	90668	88.2	5.2
85	399.28	50.96	20347.3	17964.5	67.011	2560	101922	88.3	5.0
90	399.29	57.14	22815.4	20125.3	72.549	2649	108629	88.2	4.8
95	399.27	61.21	24439.3	21549.1	75.905	2711	114912	88.2	4.7
100	399.24	61.71	24637.1	21682.0	76.458	2708	114400	88	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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