



## Brushless Motor HB30 52X19 drone arm set

### Our Product Introduction

#### Basic Information

- Place of Origin: Guangdong, China
- Brand Name: GS
- Model Number: HB30 52X19
- Price: Negotiable
- Delivery Time: 6-8
- Payment Terms: T/T
- Supply Ability: 100



#### Product Specification

- Motor Model: M40C30 IPE V3.0
- Motor Size: D:151.4x81 Mm
- Internal Resistance: 387 MΩ
- No Load Current: 1.8A/ 50V
- Motor Weight: 3460 G
- Recommended Continue Thrust: 30 Kg
- Nominal Voltage: 354V-400V
- Maximum Current: 52.2 A
- Maximum Power: 18464W
- Maximum Thrust: 79 Kg
- Highlight: **Brushless Motor HB30 52X19, HB30 52X19 drone arm set**



#### More Images



## Product Description

### Brushless Motor HB30 52X19 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 30kg(66.1BL) and has a maximum power output of 18KW, equivalent to 24 horsepower. It is 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%



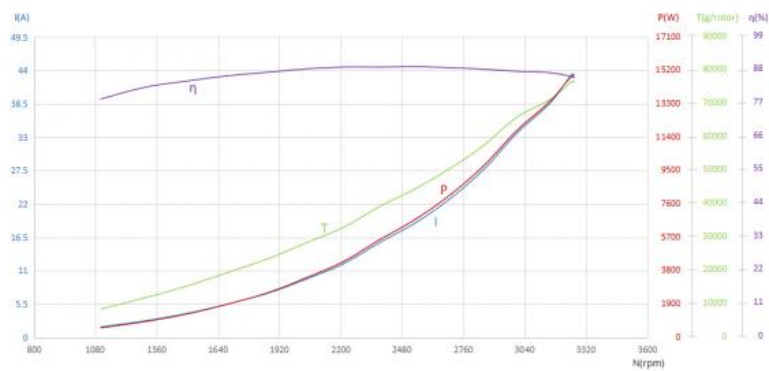
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Hummingbird **HB30**    **CB2 PROP 52X19 MATT**    **SineSic Pro 80A 16KW (150V~435V)**

**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.

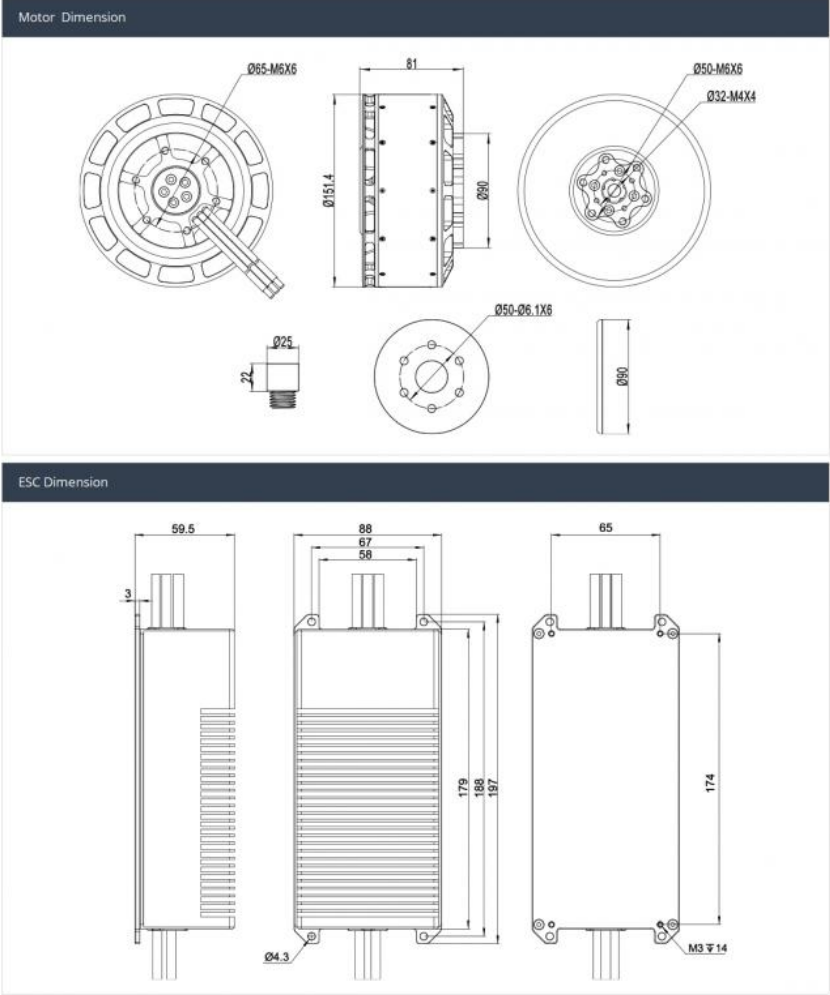


#### BASIC PARAMATER

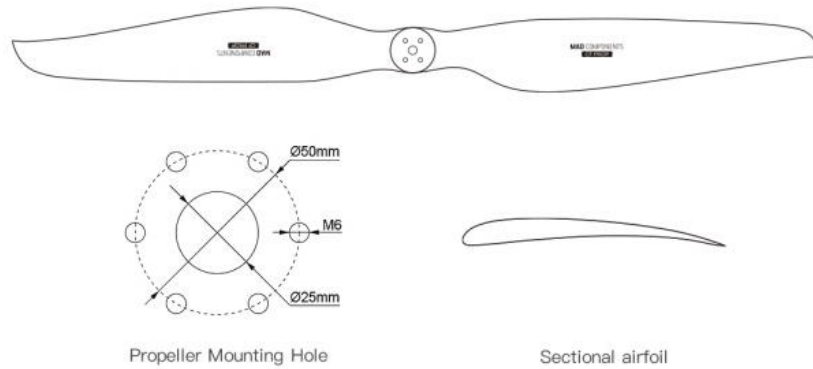
Motor Data			
Motor Model	MAD M40C30 IPE V3.0	Nominal Voltage	354V~400V
RPM/V	10 KV	Cable Length	150 mm (extended Enameled wires)
Motor Size	D:151.4 × 81 mm	Maximum Current	52.2 A
Internal resistance	387 mΩ	Maximum Power	18464W
No Load Current	1.8A / 50V	Maximum thrust	79 kg
Motor Weight	3460 g	Shaft Diameter	IN: 25 mm
Recommended Continue thrust	30 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 52X19 MATT (1320.8 x 482.6mm)	Single Weight	550 g
Material	High quality carbon fiber + Resin	Type	fixed

## PRODUCT DRAWING



## Propellers Dimension



## TEST DATA

Hummingbird **HB30** **CB2 PROP 52x19 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	1.95	689.7	546.1	4.702	1109	8456	79.2	12.3
35	353.67	3.02	1068.1	872.0	6.445	1292	11597	81.6	10.9
40	353.69	4.55	1609.3	1360.7	8.709	1492	15737	84.6	9.8
45	353.7	6.22	2200.0	1907.9	10.806	1686	19758	86.7	9.0
50	353.69	8.29	2932.1	2587.7	13.200	1872	23941	88.3	8.2
55	353.68	10.96	3876.3	3460.3	16.103	2052	29110	89.3	7.5
60	353.67	14.32	5064.6	4544.5	19.548	2220	34897	89.7	6.9
65	353.66	18	6365.9	5711.0	22.847	2387	40960	89.7	6.4
70	353.63	21.51	7606.6	6812.1	25.540	2547	45861	89.6	6.0
75	353.64	26.47	9360.9	8340.3	29.454	2704	52025	89.1	5.6
80	353.62	31.56	11160.2	9905.0	33.072	2860	58757	88.8	5.3
85	353.59	37.44	13238.4	11624.2	36.964	3003	65565	87.8	5.0
90	353.62	43.17	15265.8	13310.3	40.389	3147	71907	87.2	4.7
95	353.56	49.41	17469.4	14988.6	44.176	3240	78626	85.8	4.5
100	353.52	52.23	18464.3	15805.5	45.740	3300	79000	85.6	4.5

Hummingbird **HB30** **CB2 PROP 52x19 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	399.44	1.7	679.0	533.8	4.609	1106	8445	78.6	12.4
35	399.45	2.73	1090.5	900.1	6.551	1312	11912	82.5	10.9
40	399.44	3.94	1573.8	1330.2	8.468	1500	15360	84.5	9.8
45	399.42	5.47	2184.8	1882.3	10.680	1683	19385	86.2	8.9
50	399.42	7.31	2919.8	2551.8	13.017	1872	23628	87.4	8.1
55	399.36	9.61	3837.8	3396.7	15.861	2045	28364	88.5	7.4
60	399.39	12.08	4824.6	4298.9	18.567	2211	32876	89.1	6.8
65	399.43	15.54	6207.1	5528.1	22.227	2375	39093	89.1	6.3
70	399.41	18.94	7564.8	6747.0	25.316	2545	44656	89.2	5.9
75	399.37	23	9185.5	8162.1	28.814	2705	50842	88.9	5.5
80	399.34	27.58	11013.8	9733.7	32.614	2850	57376	88.4	5.2
85	399.34	33.73	13469.7	11806.9	37.495	3007	66051	87.7	4.9
90	399.33	38.77	15482.0	13496.0	40.784	3160	71467	87.2	4.6
95	399.32	43.41	17334.5	14897.7	43.679	3257	76701	85.9	4.4
100	399.33	43.25	17271.0	14790.5	43.232	3267	76560	85.6	4.4

## 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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