



Brushless Motor HB30 47.5X18 drone arm set

Our Product Introduction

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Basic Information

- Place of Origin: Guangdong, China
- Brand Name: GS
- Model Number: HB30 47.5X18
- Price: Negotiable
- Delivery Time: 6-8
- Payment Terms: T/T
- Supply Ability: 100



Product Specification

- Motor Model: M40C30 IPE V3.0
- Motor Size: D:151.4 X81 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: 49 A
- Maximum Power: 17467W
- Maximum Thrust: 74 Kg
- Highlight: **Brushless Motor HB30 47.5X18, HB30 47.5X18 drone arm set**



More Images



Brushless Motor HB30 47.5X18 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 17KW, equivalent to 23 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)	685mm	Cable Length(signal)	1175mm
Cable Length(output)	A:265mm/B:295mm/C:315mm	Cable Length(LED wire)	145 mm

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%



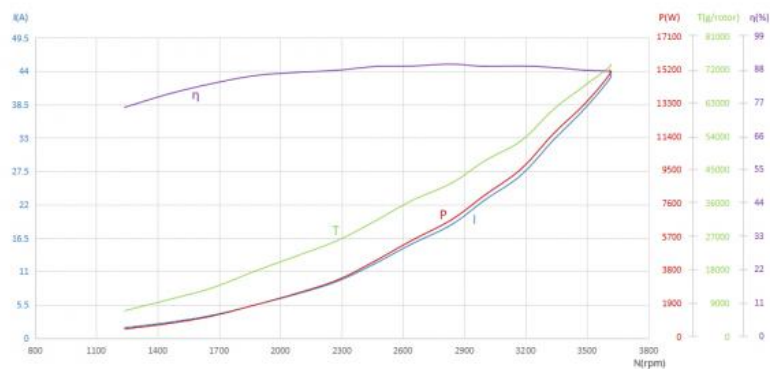
Hummingbird **HB30** CB2 PROP 47.5x18 MATT SineSic Pro 80A 16KW (150V-435V)

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.



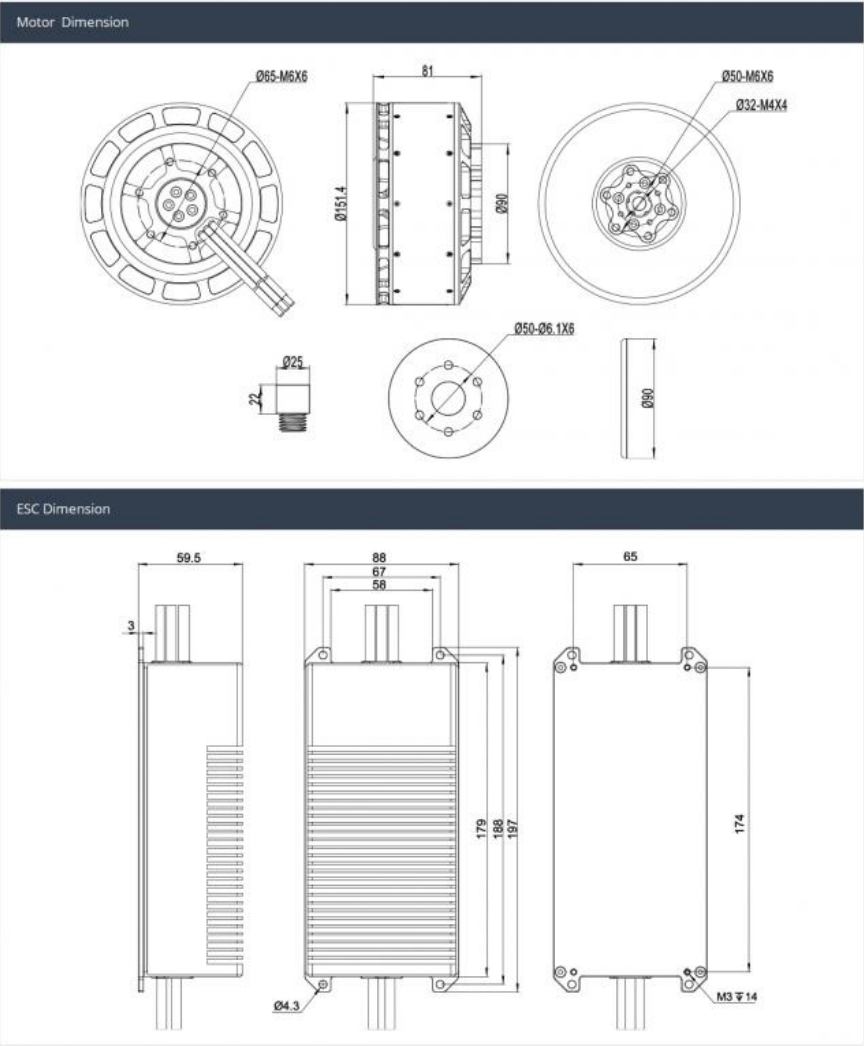
BASIC PARAMATER

Motor Data			
Motor Model	MAD 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	49 A
Internal resistance	387 mΩ	Maximum Power	17467W
No Load Current	1.8A / 50V	Maximum thrust	74 kg
Motor Weight	3460 g	Shaft Diameter	IN: 25 mm
Recommended Continue thrust	30 kg	Stator	TAIWAN / Anticorrosive

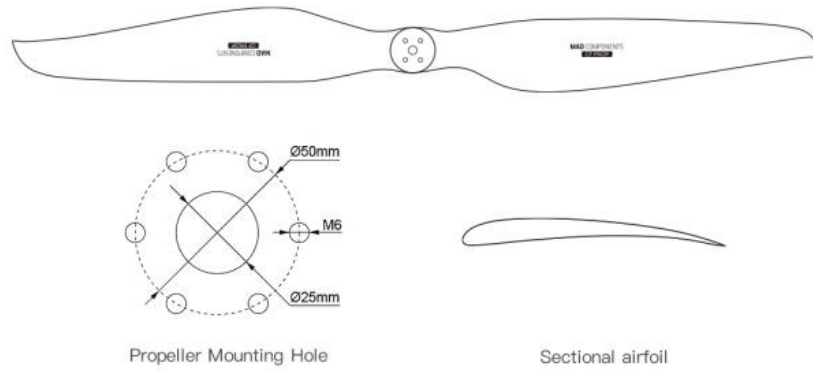
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Propellers Data			
Propellers Model	CB2 47.5X18 MATT (1206.5 x 457.2mm)	Single Weight	463 g
Material	High quality carbon fiber + Resin	Type	fixed

PRODUCT DRAWING



Propellers Dimension



TEST DATA

Hummingbird **HB30** **CB2** PROP 47.5x18 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	1.92	679.1	505.6	3.919	1232	7372	74.5	10.9
35	353.7	2.94	1039.9	843.4	5.539	1454	10387	81.1	10.0
40	353.7	4.33	1531.5	1302.3	7.389	1683	13984	85	9.1
45	353.69	5.95	2104.5	1800.3	9.233	1862	17624	85.5	8.4
50	353.73	8.22	2907.7	2567.3	11.747	2087	22269	88.3	7.7
55	353.69	10.65	3766.8	3345.1	14.047	2274	26625	88.8	7.1
60	353.69	13.88	4909.2	4370.5	17.021	2452	32227	89	6.6
65	353.69	17.33	6129.4	5554.1	19.909	2664	37504	90.6	6.1
70	353.69	21.27	7523.0	6790.3	22.937	2827	42634	90.3	5.7
75	353.67	25.62	9061.0	8192.5	25.965	3013	48526	90.4	5.4
80	353.61	31.05	10979.6	9819.1	29.551	3173	55502	89.4	5.1
85	353.59	37.29	13185.4	11768.2	33.727	3332	62531	89.3	4.7
90	353.6	44.27	15653.9	13767.9	37.564	3500	69216	88	4.4
95	353.56	49.09	17356.3	15152.9	40.094	3609	73872	87.3	4.3
100	353.56	48.95	17306.8	15017.4	39.835	3600	73978	86.8	4.3

Hummingbird **HB30** **CB2** PROP 47.5x18 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	399.42	1.69	675.0	513.9	3.961	1239	7372	76.1	10.9
35	399.42	2.6	1038.5	837.1	5.475	1460	10434	80.6	10.0
40	399.43	3.74	1493.9	1253.7	7.186	1666	13521	83.9	9.1
45	399.44	5.42	2165.0	1873.5	9.552	1873	17970	86.5	8.3
50	399.44	7.26	2899.9	2541.1	11.666	2080	22140	87.6	7.6
55	399.44	9.33	3726.8	3292.0	13.806	2277	26256	88.3	7.0
60	399.39	12.22	4880.5	4368.3	16.957	2460	31454	89.5	6.4
65	399.39	15.46	6174.6	5541.6	20.045	2640	37002	89.7	6.0
70	399.41	18.67	7457.0	6731.2	22.665	2836	41759	90.3	5.6
75	399.35	22.75	9085.2	8138.9	25.907	3000	47792	89.6	5.3
80	399.32	26.74	10677.8	9583.2	28.841	3173	53048	89.7	5.0
85	399.36	32.8	13099.0	11688.1	33.417	3340	61876	89.2	4.7
90	399.3	37.85	15113.5	13343.9	36.522	3489	68141	88.3	4.5
95	399.31	43	17170.3	15100.1	39.877	3616	73421	87.9	4.3
100	399.33	43.74	17466.7	15268.3	40.366	3612	73866	87.4	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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