



Brushless Motor HB30 54X24 drone arm set

Our Product Introduction

for more products please visit us on uav-vtoldrone.com

Basic Information

- Place of Origin: Guangdong, China
- Brand Name: GS
- Model Number: HB30 54X24
- 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: 63.4 A
- Maximum Power: 22400 W
- Maximum Thrust: 84.2 Kg
- Highlight: **HB30 54X24 drone arm set, Brushless Motor HB30 54X24**



More Images



Product Description

Brushless Motor HB30 54X24 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 22 KW, equivalent to 29 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%

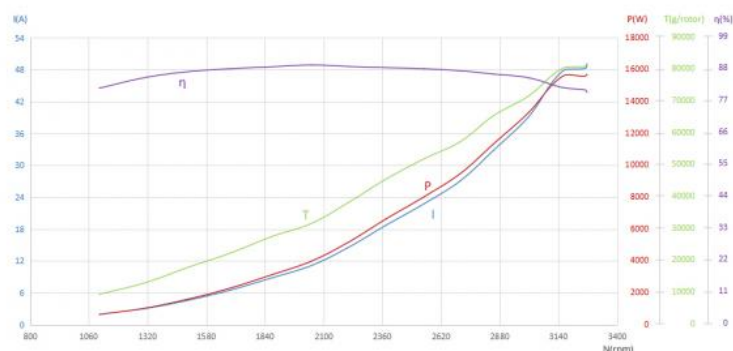


- The drone arm set with great weight to power ratio is specially designed for high-capacity multi-rotor,e-VTOL application,very suitable for heavy payload lifting drones.
- The recommended operating voltage range 100-600V.
- This propulsion system unit with motor,ESC,propeller and its compatibility 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** **FLUXER PRO 54X24 GLOSSY** **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.

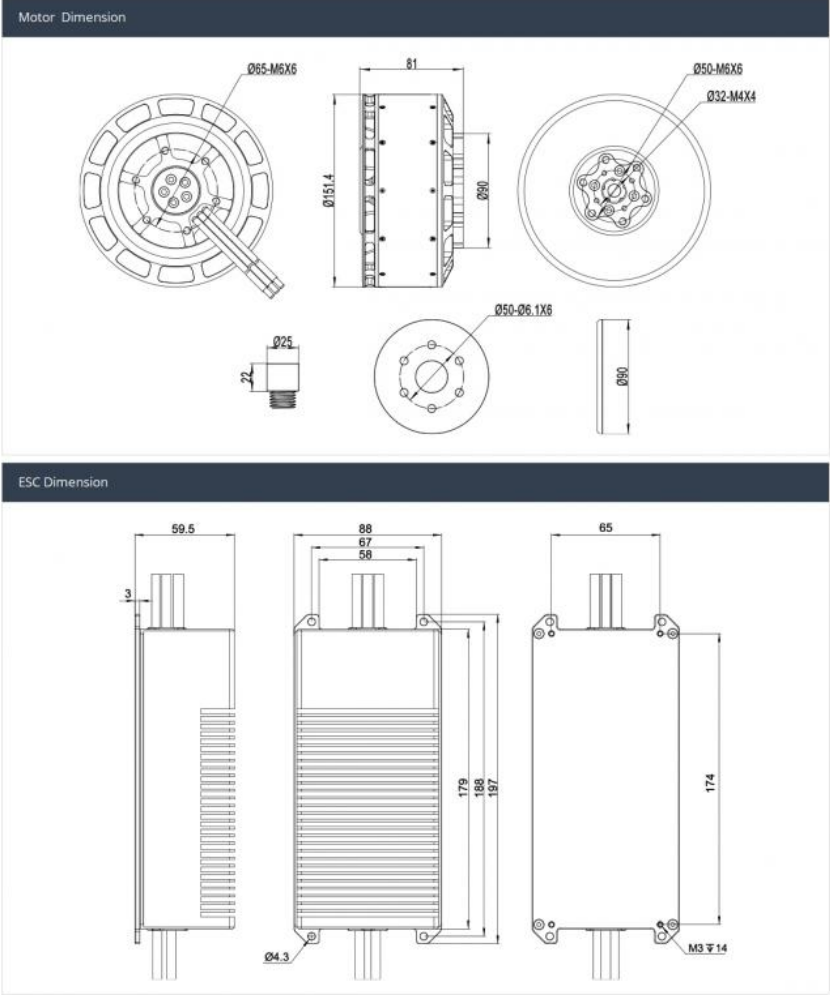


BASIC PARAMATER

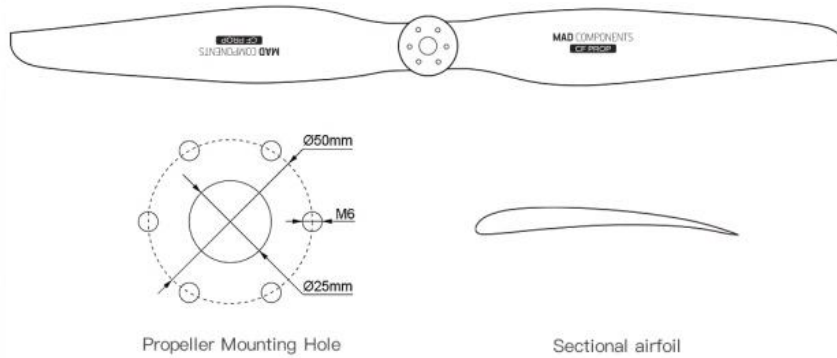
Motor Data			
Motor Model	MAD M40C30 IPE V3.0	Nominal Voltage	354V-400V
RPM/V	10 KV	Cable Length	150 mm (extended Enameled wires)
Motor Size	D:151.4 × 81 mm	Maximum Current	63.4 A
Internal resistance	387 mΩ	Maximum Power	22400 W
No Load Current	1.8A / 50V	Maximum thrust	84.2 kg
Motor Weight	3460 g	Shaft 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	FLUXER 54X24 GLOSSY (1371.6 x 609.6mm)	Single Weight	605 g
Material	High quality carbon fiber + Resin	Type	fixed

PRODUCT DRAWING



Propellers Dimension



TEST DATA

Hummingbird **HB30** **FLUXER PRO 54X24 GLOSSY** **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	2.1	742.8	640.5	5.973	1024	9267	86.2	12.5
35	353.71	3.36	1188.5	1042.9	8.299	1200	12964	87.7	10.9
40	353.69	5.03	1779.1	1586.6	10.979	1380	17217	89.2	9.7
45	353.69	7.13	2521.8	2267.3	13.879	1560	21805	89.9	8.6
50	353.69	9.64	3409.6	3057.3	16.974	1720	26592	89.7	7.8
55	353.67	12.72	4498.7	4041.4	20.528	1880	32471	89.8	7.2
60	353.66	16.49	5831.9	5223.4	24.451	2040	39087	89.6	6.7
65	353.67	20.39	7211.3	6425.6	28.031	2189	43772	89.1	6.1
70	353.59	25.64	9066.0	7989.4	32.604	2340	50991	88.1	5.6
75	353.61	31.46	11124.6	9732.6	37.280	2493	58063	87.5	5.2
80	353.62	37.87	13391.6	11548.0	41.771	2640	65520	86.2	4.9
85	353.6	45	15912.0	13342.5	46.264	2754	71786	83.9	4.5
90	353.55	55.26	19537.2	15813.9	52.199	2893	82299	80.9	4.2
95	353.54	63.01	22276.6	17198.8	54.709	3002	84059	77.2	3.8
100	353.2	63.42	22399.9	17068.8	54.299	3003	84153	76.2	3.8

Hummingbird **HB30** **FLUXER PRO 54X24 GLOSSY** **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	1.93	770.9	629.4	5.939	1106	9494	81.6	12.3
35	399.41	3.03	1210.2	1031.8	8.123	1312	13149	85.3	10.9
40	399.38	4.57	1825.2	1594.0	11.030	1500	17961	87.3	9.8
45	399.43	6.43	2568.3	2268.2	13.929	1683	22309	88.3	8.7
50	399.41	8.8	3514.8	3129.4	17.284	1872	27638	89	7.9
55	399.39	11.09	4429.2	3970.6	19.956	2045	31697	89.6	7.2
60	399.4	14.55	5811.3	5175.2	24.072	2211	38340	89.1	6.6
65	399.4	18.67	7456.8	6615.9	28.691	2375	45585	88.7	6.1
70	399.37	22.74	9081.7	8018.7	32.446	2545	51997	88.3	5.7
75	399.39	27.05	10803.5	9469.0	36.169	2705	57362	87.6	5.3
80	399.37	32.71	13063.4	11304.2	40.889	2850	65419	86.5	5.0
85	399.34	39.09	15610.2	13293.5	45.663	3007	71701	85.2	4.6
90	399.32	47.78	19079.5	15600.7	51.371	3160	80432	81.8	4.2
95	399.33	48.23	19259.7	15600.3	51.143	3257	81003	81	4.0
100	399.31	49.12	19614.1	15710.9	51.371	3267	81420	80.1	3.8

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.



Guangzhou Gesai Intelligent Electronic Technology Co., Ltd.



Kellyyangjing2021@outlook.com



uav-vtoldrone.com

Fuli Yingtong Building, the Pearl River New Town, Tianhe District, Guangzhou, Guangdong, China