



HB40 63X22 drone arm set Motor

Our Product Introduction

Basic Information

- Place of Origin: Guangdong, China
- Brand Name: GS
- Model Number: HB40-63X22
- 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: 52.1 A
- Maximum Power: 20121W
- Maximum Thrust: 93.8 Kg
- Highlight: drone arm set Motor , HB40 63X22 drone arm set



More Images



Product Description

HB40 63X22 drone arm set Motor

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%

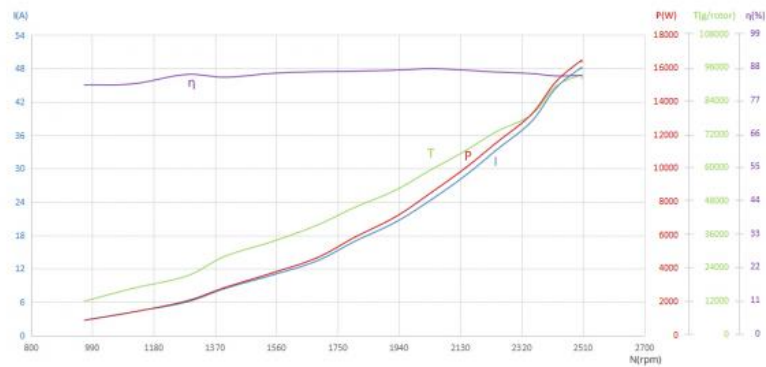


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Hummingbird **HB40** **FLUXER PRO 63X22 GLOSSY** **SineSic Pro 80A 16KW (150V~435V)** **400V**

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.

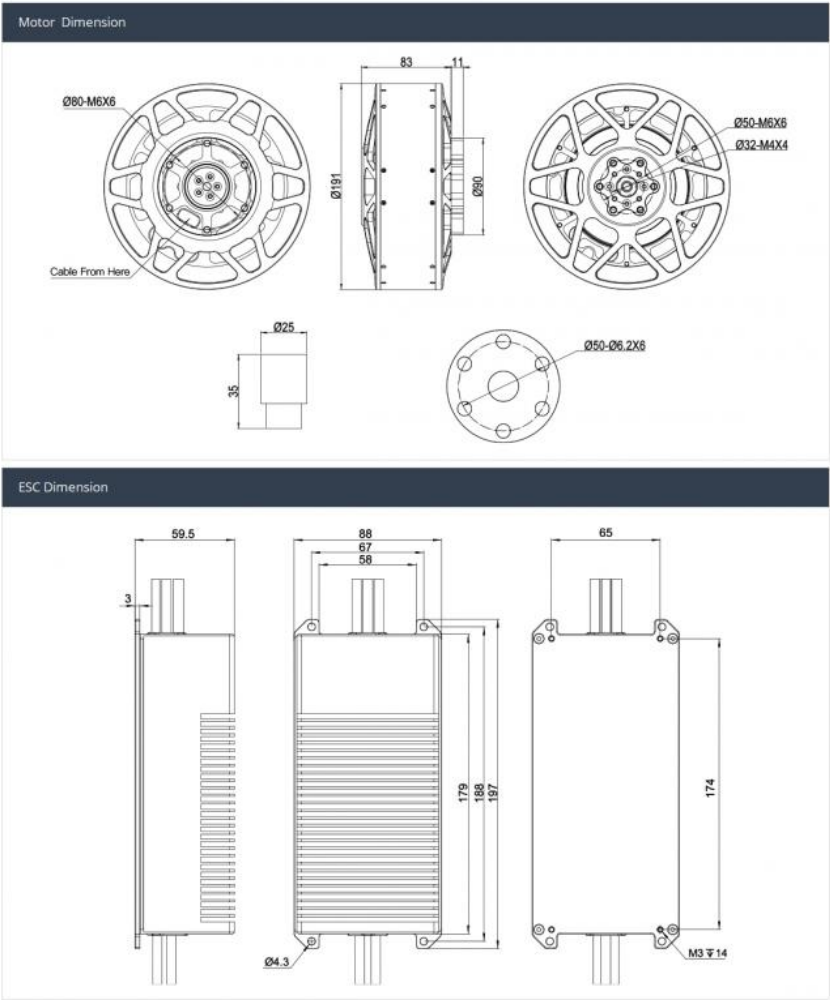


BASIC PARAMATER

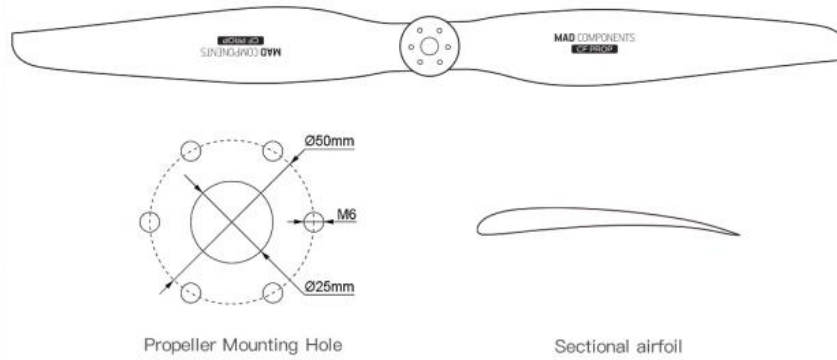
| Motor Data | | | |
|-----------------------------|---------------------|-----------------|----------------------------------|
| Motor Model | MAD M50C35 EEE V2.0 | Nominal Voltage | 354V~400V |
| RPM/V | 9 KV | Cable Length | 150 mm (extended Enameled wires) |
| Motor Size | Ø:191 × 94 mm | Maximum Current | 53.4 A |
| Internal resistance | 174.5 mΩ | Maximum Power | 19142 W |
| No Load Current | 0.92A / 30V | Maximum thrust | 93 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 | FLUXER 63X22 GLOSSY (1600.2 x 558.8mm) | Single Weight | 1083 g |
| Material | High quality carbon fiber + Resin | Type | fixed |

PRODUCT DRAWING



Propellers Dimension



TEST DATA

Hummingbird **HB40** **FLUXER PRO 63X22 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 | 353.68 | 3.09 | 1092.9 | 908.4 | 8.961 | 968 | 12270 | 83.1 | 11.2 |
| 35 | 353.69 | 4.68 | 1655.3 | 1418.9 | 11.980 | 1131 | 17063 | 85.7 | 10.3 |
| 40 | 353.66 | 6.65 | 2351.8 | 2039.2 | 15.213 | 1280 | 22008 | 86.7 | 9.4 |
| 45 | 353.7 | 9.16 | 3239.9 | 2820.6 | 18.968 | 1420 | 27779 | 87.1 | 8.6 |
| 50 | 353.63 | 12.1 | 4278.9 | 3768.5 | 23.068 | 1560 | 33780 | 88.1 | 7.9 |
| 55 | 353.68 | 15.35 | 5429.0 | 4801.4 | 27.114 | 1691 | 40352 | 88.4 | 7.4 |
| 60 | 353.68 | 19.31 | 6829.6 | 6005.0 | 31.699 | 1809 | 46801 | 87.9 | 6.9 |
| 65 | 353.62 | 23.33 | 8250.0 | 7284.6 | 36.024 | 1931 | 52449 | 88.3 | 6.4 |
| 70 | 353.65 | 27.13 | 9594.5 | 8442.8 | 39.521 | 2040 | 59395 | 88 | 6.2 |
| 75 | 353.68 | 32.18 | 11381.4 | 10026.5 | 44.533 | 2150 | 66751 | 88.1 | 5.9 |
| 80 | 353.59 | 37.55 | 13277.3 | 11705.6 | 49.482 | 2259 | 74365 | 88.2 | 5.6 |
| 85 | 353.56 | 44.12 | 15599.1 | 13613.2 | 55.341 | 2349 | 82174 | 87.3 | 5.3 |
| 90 | 353.59 | 49.34 | 17446.1 | 15225.8 | 59.321 | 2451 | 87230 | 87.3 | 5.0 |
| 95 | 353.59 | 54.14 | 19143.4 | 16569.6 | 63.520 | 2491 | 94370 | 86.6 | 4.9 |
| 100 | 353.59 | 53.4 | 18881.7 | 16349.4 | 62.701 | 2490 | 92954 | 86.6 | 4.9 |

Hummingbird **HB40** **FLUXER PRO 63X22 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 | 399.39 | 2.72 | 1086.3 | 897.2 | 8.869 | 966 | 12248 | 82.6 | 11.3 |
| 35 | 399.44 | 4.18 | 1669.7 | 1384.7 | 11.859 | 1115 | 16823 | 82.9 | 10.1 |
| 40 | 399.39 | 5.99 | 2392.3 | 2057.4 | 15.313 | 1283 | 21335 | 86 | 8.9 |
| 45 | 399.42 | 8.39 | 3351.1 | 2851.2 | 19.448 | 1400 | 28333 | 85.1 | 8.5 |
| 50 | 399.42 | 10.9 | 4353.7 | 3761.3 | 23.143 | 1552 | 33868 | 86.4 | 7.8 |
| 55 | 399.41 | 13.35 | 5332.1 | 4634.4 | 26.264 | 1685 | 39527 | 86.9 | 7.4 |
| 60 | 399.37 | 16.88 | 6741.4 | 5872.9 | 31.105 | 1803 | 45995 | 87.1 | 6.8 |
| 65 | 399.41 | 20.33 | 8120.0 | 7098.4 | 35.140 | 1929 | 52180 | 87.4 | 6.4 |
| 70 | 399.38 | 24.38 | 9736.9 | 8554.7 | 40.045 | 2040 | 59592 | 87.9 | 6.1 |
| 75 | 399.34 | 28.8 | 11501.0 | 10049.6 | 44.698 | 2147 | 66446 | 87.4 | 5.8 |
| 80 | 399.37 | 33.23 | 13271.1 | 11517.0 | 49.098 | 2240 | 73128 | 86.8 | 5.5 |
| 85 | 399.37 | 38.37 | 15323.8 | 13225.2 | 53.764 | 2349 | 79231 | 86.3 | 5.2 |
| 90 | 399.34 | 44.67 | 17838.5 | 15257.3 | 59.982 | 2429 | 89785 | 85.5 | 5.0 |
| 95 | 399.31 | 48.16 | 19230.8 | 16481.5 | 62.829 | 2505 | 93588 | 85.7 | 4.9 |
| 100 | 399.3 | 47.94 | 19142.4 | 16391.8 | 62.462 | 2506 | 92356 | 85.6 | 4.8 |

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.



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