



## 8X-10 M8C10 Drone Arm Set Brushless Motor

Our Product Introduction

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### Basic Information

- Place of Origin: Guangdong, China
- Brand Name: GS
- Model Number: 8X-10 M8C10 85KV 100KV
- Price: Negotiable
- Delivery Time: 6-8
- Payment Terms: T/T
- Supply Ability: 100



### Product Specification

- Max Thrust: 10212g /rotor @48v(sea Level)
- Recommend Take-off Weight: 3.2~4.5kg /rotor @48v(sea Level)
- Recommend Voltage: 12S Lipo
- Operating Temperature: -20~60°C
- Compatible Carbon Tube: 30mm/28mm
- Size: 28x10inch(711.2x254mm)
- Unit Weight: 310g
- Stator Size: 81X10 Mm
- Max Input Voltage: 60.9V
- Highlight: brushless motor drone arm set, 8X-10 M8C10 drone arm set, 8X-10 drone arm set



### More Images



### Product Description

#### 6X12-II Coaxial drone arm set brushless motor

The 8X-10 is a tuned propulsion system designed for use in industrial multirotor applications(mapping,aerial inspection,Firefighting,defense,military,search and rescue ,and more).It is compatiblewith 30mm(with adapter to 28mm) carbon arm tubes. it features MAD M8C10 motor, 60A14S FOC ESCand Havoc AW 2810 polymer propellers, together providing 6.6lbs (3kg) to 8.8lbs (4kg) per rotor ofrated load capacity.  
3-4kgF/rotor Max thrust:10kgF/rotor,  
Neat Cable arrangement and easy to install.  
Ultralight weight for industrial multirotor: mapping,aerial,inspection,firefighting,military,search and rescue,and more.  
Field-Oriented control.

Our Product Introduction

## MAD 8X-08

TUNED PROPULSION SYSTEM

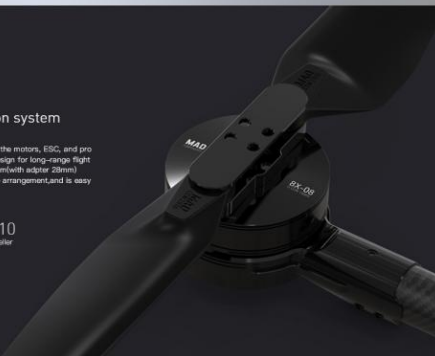


The 8X-08 is a tuned propulsion system designed for use in industrial multirotor applications (mapping,aerial inspection,Firefighting,defense,military,search and rescue ,and more).It is compatible with 30mm(with adapter to 28mm) carbon arm tubes. It features MAD M8C08 motor, 60A14S FOC ESC and Havoc AW 2810 polymer propellers, together providing 4.4lbs (2kg) to 6.5lbs (3kg) per rotor of rated load capacity.

### The integrated propulsion system

The 8X-08 features complete installation of the motors, ESC, and propellers,the total weight only 600g. Special design for long-range flight time demand. It is also compatible with 30mm(with adaptor 28mm) carbon arm tubes,which allow for neat cable arrangement,and is easy to install.

M8C08 Motor    60A14S ESC    2810 Propeller



### High efficiency motor

After months of simulation, The new M8C08 uses a new iron core design. The optimal scheme obtained after repeated comparison test in various parameters of the iron core. Lightweight core design produces bigger thrust but also has extremely high efficiency. The motor is precision workmanship, using the original Japanese E20 bearing, coupled with a unique assembly process, so that the axial and radial direction no gap, enables each multirotor aircraft to continue and fly steadily.

2.8-4kgf/per rotor

Efficiency 11.65gf/w@2.5kg

### INTELLIGENT AND RELIABLE

The 8X-08 combo FOC60A14S ESC uses FOC (Field-Oriented Control) algorithm to allow for more motor responsiveness and precision control. Additional protection functions extend the life of the ESC. Protection and warning function have over voltage,over current,over temperature,locked-rotor,short-circuit,phase loss, it is ideal for in harsh environments. Combined with the hardware failure mode, a comprehensive hardware electric self-inspection program is custom test to effectively detect the potential faults of the hard low point system and improve the overall stability and safety.



SINUSOIDAL DRIVE  
ARCHITECTURE



## POLYMER PROPELLERS

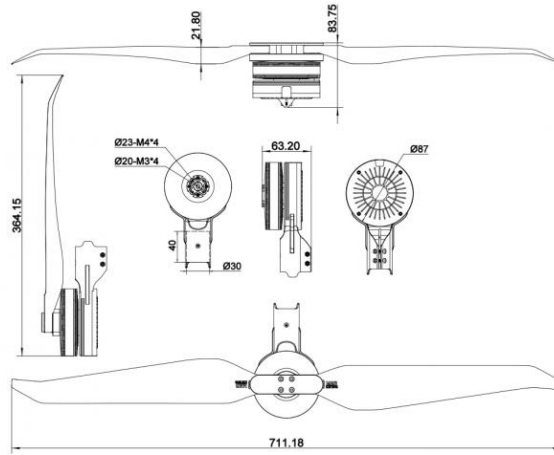
Havoc AW 2810 polymer propeller is Using a light and strong special carbon fiber composite material, *AW-vanbedral* winglets means the prop is using ultra-quiet winglet. Through continuous calculation analysis(CFD)and simulation, the most suitable airfoil shape of multirotor aircraft is obtained, we focus on flying and efficiency.



2.8-4kgf/rotor (hovering thrust)

8.6kgf/rotor (Max thrust)

## PRODUCT DRAWING



PARAMETER

8X-08		
Basic Parameter	Max Thrust	8562g /rotor @48v(sea level)
	Recommend Take-off Weight	2.8-4kg /rotor @48v(sea level)
	Recommend voltage	12S Lipo
	Operating Temperature	-20-60℃
	Unit Combo Weight	620g
	Extension Wire Length	900mm/1300mm (Input/Signal Wires)
PROPELLER	Compatible Carbon Tube	30mm/28mm
	Size	28x10inch (711.2x254mm)
MOTOR	Unit Weight	170g/pc
	Stator Size	81X8 mm
	Unit Weight	280g
FOC ESC	Model Name	Circular 60A FOC
	Max Input Voltage	60.9V
	Max Input Current	35A
	Max Peak Current	120A (10S)
	Max Throttle Signal Frequency	50-450Hz
	Recommend Voltage	12S

BENCHMARK

8X-08 100KV Propulsion Combo						SPIRO AW 28x10 folding propeller		12S	MAX 84℃
Throttle (%)	Voltage [V]	Current [A]	Input Power [W]	Output Power [W]	Torque [N·m]	RPM	Thrust [gf]	Efficiency (%)	Efficiency [g/W]
30	47.92	1.24	59.4	44.0	0.360	1166	982	74.1	16.5
35	47.93	1.97	94.4	73.4	0.508	1379	1407	77.8	14.9
40	47.89	2.92	139.8	109.4	0.662	1578	1866	78.3	13.3
45	47.91	4.11	196.9	155.8	0.840	1771	2421	79.1	12.3
50	47.88	5.39	258.1	204.3	0.995	1961	2805	79.2	10.9
55	47.84	7.19	344.0	272.9	1.216	2143	3486	79.3	10.1
60	47.79	9.04	432.0	340.5	1.404	2316	4002	78.8	9.3
65	47.73	11.21	535.1	421.3	1.621	2482	4597	78.7	8.6
70	47.68	13.6	648.4	507.9	1.833	2646	5188	78.3	8.0
75	47.61	16.46	783.7	605.3	2.062	2803	5711	77.2	7.3
80	47.54	19.49	926.6	701.8	2.267	2956	6392	75.7	6.9
85	47.47	23.1	1096.6	812.9	2.504	3100	6996	74.1	6.4
90	47.39	27	1279.5	923.7	2.719	3244	7660	72.2	6.0
95	47.27	32.3	1526.8	1053.5	2.972	3385	8468	69.0	5.5
100	47.21	34.47	1627.3	1099.5	3.031	3464	8582	67.6	5.3

Use the powertrain correctly according to the following performance parameters. It is recommended to fly at the recommended takeoff weight for best performance. Don't fly overweight. If the takeoff weight exceeds 1.2 times the maximum recommended value, performance and safety will be seriously affected.

Trouble Shooting

You can instantly tell the ESC's status by observing the LED indicator and emitted sounds.

LED Indicator/Sound	Cause Collection	Solution
The motor does not turn after the aircraft is unlocked, but only after the throttle is raised.	Flight control or remote control output unlocked idle throttle value less than 1100uS.	Set the idle throttle value of the flight control or remote control to be greater than 1100uS. 1160uS-1180uS is recommended
When the plane is powered on, connect the remote control and the motor turns	The remote control is set to lock the throttle over 1100uS, or close to 1100uS	The remote control needs to set the lock throttle less than or equal to 1050uS.
When the power-on self-test fails, the motor "beeps" every 1.5 seconds, and the indicator light flashes yellow briefly.	The throttle PWM signal is missing or the identification throttle PWM range is incorrect	Ensure that the throttle signal cable is properly connected, and check whether the signal cable is damaged.
When the power-on self-test fails, the motor "beeps" every 0.5 seconds, and the indicator light flashes yellow briefly.	Detects high throttle when get power and enters protected state	Make sure that the electric self-test passes before lifting the throttle.
The motor does not sound. The indicator light flashes yellow 4 times every 1.5 seconds "short - short - short-long".	If the power-on self-test fails, the motor line loop may be disconnected.	Open the ESC cover and check whether the three motor wires are well welded.
The motor does not sound. The indicator light flashes yellow 4 times every 1.5 seconds "long - short - long-short".	The power-on self-test fails, and the power supply voltage is abnormal	Check whether the battery voltage is normal. Check whether the power cable is properly connected
The motor does not sound. The indicator light flashes yellow 4 times every 1.5 seconds other flashing methods.	The power-on self-test fails, and the electrical hardware is abnormal.	Record the LED flashing mode video, contact MAD after-sales service, replace the ESC and test again.
The power-on self-test is normal, the motor does not turn after unlocking, and the indicator light is yellow for 0.5 seconds - the motor does not sound when the indicator light is off for 0.5 seconds.	Motor startup failure, blocking protection occurred during startup	Power on and off again and restart the power supply. If it reappears, check whether the motor is damaged.
The power-on self-test is normal, the motor does not turn during operation, indicator light 0.5 seconds yellow light - 0.5 seconds off, the motor does not sound	The motor is blocked and entered the protection state.	Check whether the machine is blocked because of blasting, check whether the motor is smooth by hand.
The power-on self-test is normal, the motor does not start or stops midway, indicator light: 1 second yellow light - 1 second off, the motor does not sound	Short circuit or overcurrent protection occurs, and the device enters the protection state.	Disassemble the electric adjusting cover and check whether the motor line is damaged and whether the copper terminal of the motor line is loose.
The indicator light flashes alternately red and green during operation.	The PWM throttle signal is missing.	Make an emergency landing and check whether the PWM signal line is well connected and whether the signal line is damaged halfway.
The indicator light flashes yellow every 0.2 seconds during operation.	The power-on self-test fails, and the electrical hardware is abnormal.	After the aircraft lands and stops, check whether the temperature of the ESC shell is too high. If the temperature is too high, check whether the screws of the five wiring position of the ESC are loose.

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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