

5X 5010 drone arm set Power sleeve brushless motor

Basic Information

• Place of Origin: Guangdong, China

• Brand Name: GS

Model Number: 5X 5010Price: Negotiable

Delivery Time: 6-8Payment Terms: T/TSupply Ability: 100



Product Specification

Highlight: 5X 5010 drone arm set,
 High Efficient drone arm set



More Images



5X 5010 drone arm set Power sleeve brushless motor

Ready-to-use drone arm kit is designed for industrial multi-rotor applications, providing 1.6-2.3kg payload per rotor, max thrust per rotor 4.9kg. Combined weight only 319g.

Tuned propulsion system for long range inspection, mapping and surveying drone quadcopter hexcopter multirotor. A specially designed modular CF arm that ensures maximum drone performance. Our 5X10 RTS (Ready To Ship) propulsioncombo is built for industrial multirotor applications, providing a payload capacity of 1.6-2.3kg per rotor, with a maximumthrust of 4.9kg per rotor. The combo weights only 319g

High Efficient Brushless Motor

Lightweight and high performance 5010 motor integrated, 24N28P with arcmagnets.

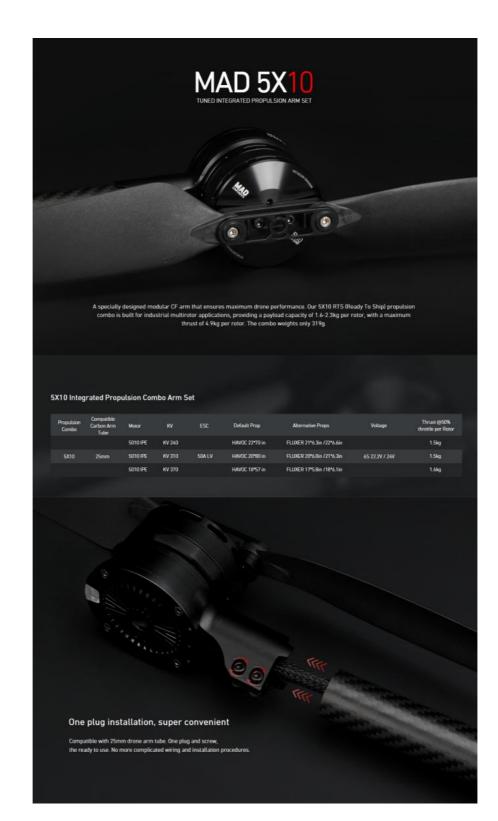
Very good motor electromagnetic design

Designed for endurance flight

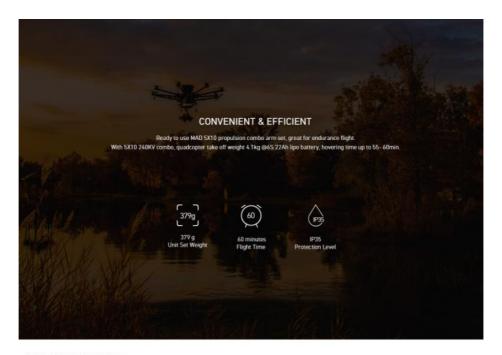
Water & dust proof. In agricultural applications, that allows the system tobe washed without worrying about corrosion.

Efficient & Solid Propeller

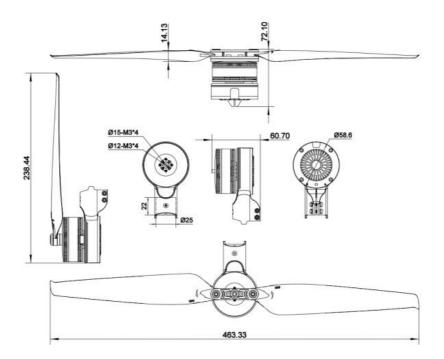
The HAVOC folding propellers are made of carbon composite, lightweight and solid. Upward wingtip design, reduce airflow interference, so less vibration and noise, efficiency highly increased







PRODUCT DRAWING



PARAMETER

	5X-5010	KV240	KV310	KV370	
	Max Thrust	4119g/rotor@24V(sea level)	4308g/rotor @24V(sea level)	4936g/rotor @24V(see level)	
	Recommend Take- off Weight	1500g/rotor @24V(sea level)	1500g/rotor @24V(sea level)	1600g/rotor @24V(sea level)	
Basic Parameter	Recommend Voltage	6S Lipo	6S Lipo	6S Lipo	
Basic Parameter	Operating Temperature	-10-60°C	-10-60°C	-10-60°C	
	Unit Combo Weight	379g (W/HAVOC 22X7in prop)	361g (W/HAVOC 18X5.7in prop)	361g (W/HAVOC 18X5.7in prop)	
	Extension Wire Length	700mm/950mm (Input/Signal Wires)	700mm/950mm (Input/Signal Wires)	700mm/950mm (Input/Signal Wires)	
	Competible Carbon Tube	25mm	25mm	25mm	
PROPELLER	Size	HAVOC 22x7in (558.8x177.8mm)	HAVOC 20x8.0in (508x203.2mm)	HAVOC 18x5.7in (457.2x144.78mm)	
PHOPELLEN	Unit Weight	65g/pc	58g/pc	47g/pc	
MOTOR	Stator Size	50x10 mm	50x10 mm	50x10 mm	
MOTOR	Unit Weight	166g	166g	166g	
	Max Input Voltage	26V	26V	26V	
	Max Input Current	50A	50A	50A	
ESC	Max Peak Current	70A	70A	70A	
	Max Throtte Signal Frequency	621Hz	621Hz	621Hz	
	Recommend Voltage	4-6S	4-6S	4-6S	

5X10	240KV	Propulsion	Combo

Propulsion Combo HAVOC 22x7.0 folding propeller

6S MAX 84°C

Throttle [%]	Voltage [VI	Current [A]	Input Power [W]	Output Power [W]	Torque [N×m]	RPM	Thrust [gf]	Efficiency [%]	Efficiency [gf/W]
30	24.05	1.25	29.8	21.7	0.156	1331	519	72.8	17,4
35	24.04	1.95	46.4	34.5	0.213	1550	712	74.4	15.3
40	24.02	2.81	67.2	50.2	0.274	1747	927	74.9	13.8
45	24.01	3.65	87.1	65.4	0.326	1917	1118	75.1	12.8
50	23.99	4.71	112.5	85.1	0.389	2089	1332	78.7	12.3
55	23.97	6.01	143.6	108.6	0.458	2265	1577	78.8	11.4
60	23.93	7.87	188.1	143.2	0.553	2471	1893	79.2	10.5
65	23.9	9.67	230.4	175.3	0.632	2650	2170	79.0	9.8
70	23.86	11.78	280.6	213.4	0.720	2832	2468	78.9	9.1
75	23.83	13.92	331.3	248.9	0.796	2988	2643	77.8	8.3
80	23.79	16.51	392.3	290.8	0.883	3144	2948	76.6	7.8
85	23.74	18.86	447.2	329.7	0.962	3273	3221	76.1	7.4
90	23.69	21.59	511.0	370.7	1.038	3411	3477	74.7	7.0
95	23.63	24.52	579.1	413.7	1,119	3530	3749	73.4	6.7
100	23.56	28.92	680.8	473.3	1.229	3677	4119	71.2	6.2

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.

5X10 310KV Propulsion Combo FLUXER PRO 20x6.0 MATT

MAX 65 86°C

Throttle [%]	Voltage [V]	Current [A]	Input Power [W]	Output Power [W]	Torque [N×m]	RPM	Thrust [gf]	Efficiency [%]	Efficiency [gf/W]
30	24.01	1.48	35.0	24.5	0.118	1986	508	70.4	14.6
35	24	2.17	51.6	37.7	0.159	2273	697	73.9	13.6
40	23.99	2.92	69.9	52.5	0.198	2539	865	77.9	12.8
45	23.96	4.36	104.0	81.1	0.262	2957	1161	81.1	11.6
50	23.94	5.72	136.3	107.7	0.316	3254	1413	82.0	10.8
55	23.91	7.26	173.2	138.2	0.372	3549	1672	83.1	10.0
60	23.88	8.96	213.3	171.1	0.429	3815	1961	83.2	9.5
65	23.85	10.79	256.7	205.8	0.482	4076	2218	83.1	9.0
70	23.81	12.71	302.1	242.7	0.540	4297	2482	83.1	8.5
75	23.78	14.98	355.5	285.5	0.603	4526	2774	83.0	8.1
80	23.73	17.34	411.2	330.4	0.665	4747	3028	82.9	7.6
85	23.68	19.77	467.7	375.2	0.721	4969	3308	82.5	7.3
90	23.64	22.67	535.4	426.4	0.787	5175	3621	81.8	7.0
95	23.58	25.75	606.6	481.4	0.855	5377	3913	81.3	6.6
100	23.5	30.07	706.0	555.9	0.939	5656	4308	80.4	6.2

5X10 310KV Propulsion Combo **HAVOC** 20x8.0 folding propeller

65

Throttle [%]	Voltage [V]	Current [A]	Input Power (W)	Output Power [W]	Torque [N×m]	RPM	Thrust (gf)	Efficiency [%]	Efficiency [gf/W]
30	24.03	1.69	40.0	29.9	0.149	1922	549	74.7	13.7
35	24.02	2.54	60.7	46.5	0.200	2223	766	77.0	12.7
40	24.01	3.42	81.7	64.0	0.247	2474	961	78.3	11.8

45	23.98	5.1	122.1	98.5	0.328	2863	1306	84.2	11.2
50	23.95	6.83	163.0	132.2	0.397	3177	1 644	84.4	10.5
55	23.91	8.72	207.9	170.1	0.471	3448	1975	85.1	9.9
60	23.88	10.66	254.1	207.6	0.537	3694	2273	84.9	9.3
65	23.84	12.92	307.6	250.4	0.607	3940	2609	84.4	8.8
70:	23.8	15.22	361.8	294.3	0.676	4159	2870	84.1	8.2
75	23.75	17.81	422.5	342.2	0.748	4368	3174	83.6	7.8
80	23.7	20.65	488.9	394.2	0.824	4569	3532	83.0	7.4
85	23.65	23.63	558.3	445.8	0.894	4760	3844	82.1	7.1
90	23.59	26.9	634.2	502.1	0.966	4962	4157	81.2	6.7
95	23.52	30.37	713.7	560.6	1,040	5146	4461	80.3	6.4
100	23.44	35.48	831.1	643.1	1,139	5393	4866	78.8	6.0

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.

5X10 370KV Propulsion Combo **HAVOC** 18x5.7 folding propeller

6S MAX 79°C

Throttle [%]	Voltage [V]	Current [A]	input Power (W)	Output Power [W]	Torque [N×m]	RPM	Thrust (gf)	Efficiency [%]	Efficiency [gf/W]	
30	23.97	2.4	57,0	38.7	0.155	2394	615	71.2	11.3	
35	23.95	3.42	81.4	58.1	0.205	2715	868	74.4	11.1	
40	23.93	4.52	107.5	78.0	0.246	3025	1091	75.4	10.5	
45	23.9	6.03	143.7	107.6	0.305	3369	1346	77.8	9.7	
50	23.87	8.13	193.7	148.4	0.379	3744	1681	79.5	9.0	
55	23.83	10.31	245.3	190.5	0.443	4109	1922	80.4	8,1	
60	23.78	12.96	307.5	240.1	0.521	4405	2240	80.7	7.5	
65	23.73	15.43	365.6	284.4	0.578	4698	2557	80.2	7.2	
70	23.68	18.16	429.6	334.6	0.643	4973	2852	80.2	6.8	
75	23.62	21,36	503.9	390.8	0.715	5217	3191	79.6	6.5	
80	23.56	24.79	583.6	448.4	0.781	5483	3502	78.7	6.1	
85	23.49	28.59	670.9	515.4	0.860	5722	3814	78.4	5,8	
90	23.42	32,25	754.7	578.5	0.923	5985	4063	78.0	5.5	
95	23.33	37.16	866.2	654.2	1,011	6177	4505	76.5	5.3	
100	23.2	43.96	1019.2	753.9	1.117	6447	4936	74.5	4.9	

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.

T	rou	ы	la	2	hou	nti	ne

LED Indicator/Sound	Cause Collection	Solution	
he motor does not turn after the aircraft is nlocked, 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 1100u/S; 1160u/S-1180u/S is recommended	
When the plane is powered on, connect the remote ontrol 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 lashes 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 lashes yellow briefly.	Detects high throttle when get power and enters protected state	Make sure that the electric self-test passes before lifting the throatle.	
The motor does not sound. The indicator light lashes yellow 4 times every 1.5 seconds: "short - thort - short-long".	If the power-on self-test falls, 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 lashes yellow 4 times every 1.5 seconds: "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 lashes yellow 4 times every 1.5 seconds; other lashing 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 scartup 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 reliow light 1 second off, the motor does not cound	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.	

When in use, please rely on the status	IBLE ALERTS FOR MOTOR CONTROLLER - RAP indicator lights and audible alerts to assess whether the my abnormalities occur, please troubleshoot the issues.	
	FAULT DURING SELF-CHECK	
FAULT SYMPTOMS	POSSIBLE CAUSES	SOLUTION
Power-on self-test failure, the motor emits a "beep" sound every 1.5 seconds, accompanied by a brief yellow flashing indicator light	Loss or misidentification of throttle PWM signal. Throttle PWM range is incorrect.	Ensure the throttle signal wire is well-connected. Check for any damage to the signal wire.
Power-on self-test failure, the motor emits a "beep' sound every 0.5 seconds, accompanied by a brief yellow flashing indicator light.	High throttle detected during power-on, entering protection mode.	Ensure that the motor controller has passed the self-check before increasing the throttle.
Power-on self-test failure, the motor is silent, and the indicator light flashes a sequence of four short intervals every 1.5 seonds: short-short-short -long' in yellow.	Power-on self-test failure, the motor circuit may be disconnected.	Open the motor controller cover and check if the three motor wires are securely locked.
Power-on self-test failure, the motor is silent, and the indicator light flashes a sequence of four short intervals every 1.5 seconds: 'short-short-long' in yellow.	Power-on self-test failure, abnormal supply voltage.	Check if the battery voltage is normal; inspect the power supply line for proper connection.
Power-on self-test failure, the motor is silent, and the indicator light flashes a sequence of four short intervals every 1.5 seconds with a yellow light: other flashing patterns.	Power-on self-test failure, abnormality detected in motor controller hardware.	Record the LED flashing pattern on video. Contact customer service for a replacement motor controller and conduct further testing.
	FAULT DURING OPERATION	
FAULT SYMPTOMS	POSSIBLE CAUSES	SOLUTION
The motors do not spin after the aircraft is unlocked; they start spinning only after increasing the throttle.	The flight controller or remote controller outputs unlock idle; throttle value is less than 1100 microseconds.	Set the flight controller or remote controller to output idle with a throttle value greater than 1100 microseconds, recommended range 1160uS to 1180uS.
After powering on the sircraft and connecting the remote controller, the motors start spinning.	The remote controller is set to look the throttle above 1100 microseconds or close to 1100 microseconds.	The remote controller needs to be set to lock the throttle at a value less than or equal to 1050 microseconds.
Power-on self-test is normal, but the motors do not spin after unlocking, indicator light: 0.5 seconds of yellow light followed by 0.5 seconds off, and the motors do not produce any sound.	The motor startup falled, encountering stall protection during the startup process.	Power cycle by turning the power on and off, if the issue persists, check whether the motor is damaged.
Power-on self-test is normal, but the motors do not spin after unlocking, indicator light: 0.5 seconds of yellow light followed by 0.5 seconds off, and the motors do not produce any sound.	The motor controller detects motor stall and enters protection mode.	Check if the motor is stalled due to a crash and inspect whether the motor rotation is smooth.
Power-on self-test is normal, but the motors do not spin after unlocking, indicator light: 1 second of yellow light followed by 1 second off, and the motors do not produce any sound.	Short circuit or overcurrent protection triggered, entering protection mode.	Open the motor controller cover and inspect whether there is any damage to the motor wires and if the copper connectors on the motor wires are loose.
During operation, the indicator light alternately flashes red and green.	The motor controller detects a loss of PWM throttle signal.	Emergency landing of the aircraft, check if the PWM signal line is well-connected, and inspect for any damage to the signal line midway.
During operation, the indicator light rapidly flashes yellow every 0.2 seconds.	The motor controller detects high temperature.	After landing and stopping the aircraft, check if the motor controller's casing is too hot. If the temperature is high, inspect whether the five terminal scrows of the motor controller are loose.
Power-on self-test failure, the motor is silent, and the indicator light flashes a sequence of four short intervals even 1.5 seconds: 'short-long-short-short' in yellow.	Power-on self-test failure, abnormal voltage on the motor wires.	Check for any short circuits between the motor wires and the main bus in the motor controller. Inspect whether the motor wires are damaged and if there is a short circuit with the casing.

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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