# Brushless Motor HB30 54X24 drone arm set

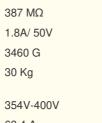
# **Basic Information**

- Place of Origin:
- GS • Brand Name:
- Model Number:
- Price:
- Delivery Time:
- Payment Terms:
- Supply Ability:



## **Product Specification**

- Motor Model: M40C30 IPE V3.0 • Motor Size: D:151.4 X81 Mm • Internal Resistance: 387 MΩ 1.8A/ 50V • No Load Current: 3460 G • Motor Weight: Recommended Continue 30 Kg Thrust: 354V-400V • Nominal Voltage: • Maximum Current: 63.4 A • Maximum Power: 22400 W
  - Maximum Thrust:
  - Highlight:



Guangdong, China

HB30 54X24

Negotiable

6-8

T/T

100

84.2 Kg HB30 54X24 drone arm set, Brushless Motor HB30 54X24



# More Images

### 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.lt 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 Wirewith Waterproof Connector)

The drone arm set with great weight to power ratio is speciallydesigned for high-capacity multi-rotor,e-VTOL application,verysuitable 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

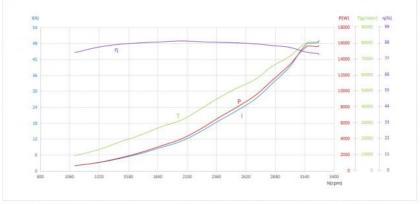
Utilizing high-quality aviation-grade aluminum enhances both safety measures and utilization of durability.

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%



i – Current, P – Input Power, ŋ – 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.

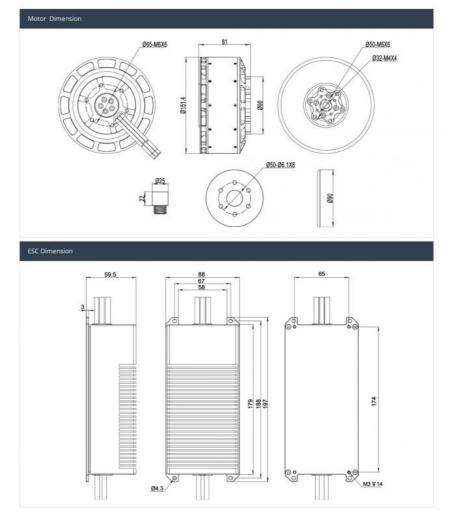


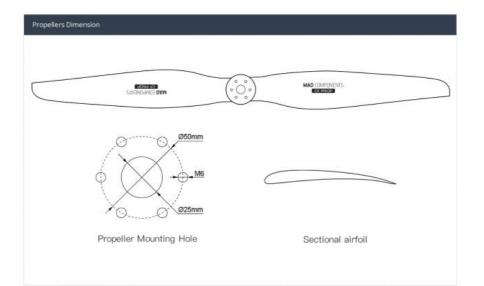
#### BASIC PARAMATER

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			
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Protection Level	IP67	Instant Current	150A (under good cooling )
Recommended Battery	96~ 1005 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	Туре	fixed

#### PRODUCT DRAWING





#### TEST DATA

	iguiru <b>HBSU</b>	FLUXER	PRO 54X2	4 GLOSSY S	SineSic Pro	80A 16KW	/(150V~43	5V)	354V
Throttle [%]	Voltage [V]	Current [A]	Input Power [W]	Output Power [W]	Torque [N×m]	RPM	Thrust [gf]	Efficiency [%]	Efficienc [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		and the		and the second		2002			1000
100 Hummin	353.2 agbird <b>HB30</b>	63.42	22399.9 PRO 54X2	17068.8 4 GLOSSY <b>S</b>	54.299	3003 80A 16KW	<sup>84153</sup> / (150V~43	76.2 5V)	<sup>3.8</sup>
lummin Throttle	gbird <b>HB30</b> <sup>Voltage</sup>	FLUXER	PRO 54X2	4 GLOSSY S	ineSic Pro		/ (150V~43	5V) Efficiency	400V
lummin Throttle (%)	gbird <b>HB30</b> <sub>Voltage</sub> [V]	FLUXER Current [A]	t PRO 54X2 Input Power [W]	4 GLOSSY S Output Power [W]	SineSic Pro	9 80А 16КМ <sub>RPM</sub>	/ (150V~43 Thrust [g1]	5V) Efficiency (%)	400V Efficienc [gf/W]
Hummin Throttle (%) 30	gbird <b>HB30</b> <sup>Voltage</sup> [V] 399,41	FLUXER Current [A] 1.93	t PRO 54X2 Input Power [W] 770.9	4 GLOSSY S Output Power [W] 629.4	Torque (N×m) 5.939	80A 16KW RPM 1106	/ (150V~43! Thrust [81] 9494	5V) Efficiency (%) 81.6	400V Efficienc [gf/W] 12.3
Hummin Throttle (%) 30 35	voltage (V) 399,41 399,41	FLUXER Current [A] 1.93 3.03	PRO 54X2	4 GLOSSY S Output Power [W] 629.4 1031.8	Torque (N×m) 5.939 8.123	80A 16KW RPM 1105 1312	/ (150V~43 Thrust [87] 9494 13149	5V) Efficiency (%) 81.6 85.3	400V Efficienc [gf/W] 12.3 10.9
Hummin Throttle (%) 30 35 40	yoltage (V) 399.41 399.38	FLUXER Current [A] 1.93 3.03 4.57	R PRO 54X2 Input Power (W) 770.9 1210.2 1825.2	4 GLOSSY <b>S</b> Output Power [W] 629.4 1031.8 1594.0	Torque (N×m) 5.939 8.123 11.030	80A 16KW RPM 1106 1312 1500	/ (150V~43 Thrust [80] 9494 13149 17961	Efficiency (%) 81.6 85.3 87.3	400V Efficienc [gf/w] 12.3 10.9 9.8
Hummin Throttle (%) 30 35 40 45	voltage [V] 399.41 399.38 399.43	FLUXER Current [A] 1.93 3.03 4.57 6.43	PRO 54X2	4 GLOSSY S Output Power [W] 629.4 1031.8 1594.0 2268.2	Torque (N×m) 5.939 8.123 11.030 13.929	80A 16KW RPM 1106 1312 1500 1683	/ (150V~43 Thrust [80] 9494 13149 17961 22309	Efficiency [%] 81.6 85.3 87.3 88.3	400V Efficienc [gf/W] 12.3 10.9 9.8 8.7
Hummin (%) 30 35 40 45 50	voltage [V] 399.41 399.38 399.43 399.43 399.41	FLUXER Current [A] 1.93 3.03 4.57 6.43 8.8	PRO 54X2 Input Power [W] 770.9 1210.2 1825.2 2568.3 3514.8	A GLOSSY S Output Power [W] 629.4 1031.8 1594.0 2268.2 3129.4	Torque (N×m) 5.939 8.123 11.030 13.929 17.284	80A 16KW RPM 1106 1312 1500 1683 1872	/ (150V~43 Thrust [80 9494 13149 17961 22309 27638	Efficiency (%) 81.6 85.3 87.3 88.3 89	400V Efficienc [gf/W] 12.3 10.9 9.8 8.7 7.9
Hummin (%) 30 35 40 45 50 55	Voltage (V) 399.41 399.41 399.38 399.43 399.41 399.39	FLUXER Current [A] 1.93 3.03 4.57 6.43 8.8 11.09	PRO 54X2 Input Power [W] 770.9 1210.2 1825.2 2568.3 3514.8 4429.2	A GLOSSY S Output Power [W] 629.4 1031.8 1594.0 2268.2 3129.4 3970.6	Torque (N×m) 5.939 8.123 11.030 13.929 17.284 19.956	80A 16KW RPM 1106 1312 1500 1683 1872 2045	/ (150V~43 Thrust [80 9494 13149 17961 22309 27638 31697	Efficiency (%) 81.6 85.3 87.3 88.3 89 89.6	400V Efficienc [gf/w] 12.3 10.9 9.8 8.7 7.9 7.9 7.2
Hummin Throttle [%] 30 35 40 45 50 55 60	yoltage (V) 399.41 399.41 399.43 399.43 399.43 399.41 399.39 399.4	FLUXER Current [A] 1.93 3.03 4.57 6.43 8.8 11.09 14.55	PRO 54X2	A GLOSSY S Output Power (V) 629.4 1031.8 1594.0 2268.2 3129.4 3970.6 5175.2	Torque (N×m) 5.939 8.123 11.030 13.929 17.284 19.956 24.072	80A 16KW RPM 1106 1312 1500 1683 1872 2045 2211	/ (150V~43 Thrust [87] 9494 13149 17961 22309 27638 31697 38340	Efficiency (%) 81.6 85.3 87.3 88.3 89 89.6 89.1	400V Efficience [gfwy] 12.3 10.9 9.8 8.7 7.9 7.2 5.6
Hummin [%] 30 35 40 45 50 55 60 65	yoltage (V) 399.41 399.41 399.38 399.43 399.43 399.41 399.39 399.4 399.4 399.4	FLUXER (A) 1.93 3.03 4.57 6.43 8.8 11.09 14.55 18.67	PRO 54X2 Input Power [W] 770-9 1210-2 1825-2 2568.3 3514.8 4429-2 5811.3 7456.8	A GLOSSY S Output Power (W) 629.4 1031.8 1594.0 2268.2 3129.4 3970.6 5175.2 6615.9	SineSic Pro           [N=m]           5.939           8.123           11.030           13.929           17.284           19.956           24.072           28.691	80A 16KW RPM 1106 1312 1500 1683 1872 2045 2211 2375	/ (150V~43: Thrust [sf] 9494 13149 17961 22309 27638 31697 38340 45585	Efficiency [%] 81.6 85.3 87.3 88.3 89 89,6 89,6 89,1 88.7	4000V Efficience [gfwy] 12.3 10.9 9.8 8.7 7.9 7.2 5.6 6.1
Hummin [%] 30 35 40 45 50 55 60 65 70	yoltage (V) 399.41 399.41 399.38 399.43 399.43 399.41 399.39 399.4 399.4 399.4 399.4 399.4 399.4	FLUXER (A) 1.93 3.03 4.57 6.43 8.8 11.09 14.55 18.67 22.74	RPRO 54X2 Input Power (W) 770.9 1210.2 1825.2 2568.3 3514.8 4429.2 5811.3 7456.8 9081.7	A GLOSSY S Output Power (W) 629.4 1031.8 1594.0 2268.2 3129.4 3970.6 5175.2 6615.3 8018.7	<b>SineSic Pro</b> <b>Torque</b> (N-m) 5.939 8.123 11.030 13.929 17.284 19.955 24.072 28.691 32.446	80A 16KW RPM 1106 1312 1500 1683 1872 2045 2211 2375 2545	/ (150V~433 Thrust (87) 9494 13149 17961 22309 27638 31697 38340 45585 51997	Efficiency (%) 81.6 85.3 87.3 88.3 89 89.6 89.6 89.6 89.1 88.7 88.3	400V Efficienc [st/w] 12.3 10.9 9.8 8.7 7.9 7.2 6.6 6.1 5.7
Hummin (%) 30 35 40 45 50 55 60 65 70 75	voltage (V) 399.41 399.41 399.38 399.43 399.43 399.4 399.4 399.4 399.4 399.4 399.4 399.4 399.4	FLUXER (A) 1.93 3.03 4.57 6.43 8.8 11.09 14.55 18.67 22.74 27.05	RPRO 54X2 Input Power (W) 770.9 1210.2 1825.2 2568.3 3514.8 4429.2 5811.3 7456.8 9081.7 10803.5	A GLOSSY S Output Power [W] 629.4 1031.8 1594.0 2268.2 3129.4 3970.6 5175.2 6615.9 8018.7 9469.0	SineSic Pro-           Torque           (N:m)           5.939           8.123           11.030           13.929           17.284           19.956           24.072           28.691           32.446           36.169	80A 16KW RPM 1106 1312 1500 1683 1872 2045 2211 2375 2545 2705	/ (150V-433 Thrust (87) 9494 13149 17961 22309 27638 31697 38340 45585 51997 57362	5V) Efficiency (%) 81.6 85.3 87.3 88.3 89 89.6 89.1 88.7 88.3 88.7 88.3 87.6	400V Efficienc [st/w] 12.3 10.9 9.8 8.7 7.9 7.2 6.6 6.1 5.7 5.3
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throttle (%) 30 35 40 45 50 55 60 65 70 75 80	voltage (V) 399,41 399,41 399,43 399,43 399,43 399,4 399,4 399,4 399,4 399,4 399,37 399,39 399,39 399,39	FLUXER (A) 1.93 3.03 4.57 6.43 8.8 11.09 14.55 18.67 22.74 27.05 32.71	rpro 54X2 roy t Power (W) 770.9 1210.2 1825.2 2568.3 3514.8 4429.2 5811.3 7456.8 9081.7 10803.5 13063.4	A GLOSSY S Output Power [W] 629.4 1031.8 1594.0 2268.2 3129.4 3970.6 5175.2 6615.9 8018.7 9469.0 11304.2	Conception Conceptica Conceptica Conceptica Conceptica Conceptica Conceptica	80A 16KW RPM 1106 1312 1500 1683 1872 2045 2211 2375 2545 2705 2850	/ (150V-433 Thrust (87) 9494 13149 17961 22309 27638 31697 38340 45585 51997 57362 65419	Efficiency (%) 81.6 85.3 87.3 88.3 89 89.6 89.1 88.7 88.3 88.3 87.6 88.3	400V Efficienc (gf/w) 12.3 10.9 9.8 8.7 7.9 7.2 6.6 6.1 5.7 5.3 5.0

# **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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