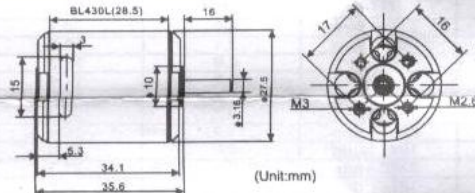




**RCM-BL430L Brushless Motor**

This new Brushless motor developed by the ALIGN POWER R&D TEAM, is packed with the latest, cutting edge technology available today. It features exceptional levels of high-torque power. The 430L utilizes a 6-pole outrunner stator-rotor and unrivaled Ndfeb extra strong magnets that traditional magnets cannot compare to. Also included is a high temperature, wear-resisting, low friction, double ZZ high efficiency bearing. The 430L will be the most revolutionary motor operating on low current amperage, and delivering high torque to RC models.

**Specification**



**Illustration**



Exchange two wire for changing motor rotation direction.

Model	Input voltage	Dimension	Weight	KV	Max. Output Current
RCM-BL430L	DC7.4~14.8V	Shaft 3.16x27.5x35.6mm	Approx 58g	3150KV	280W
				3550KV	300W
				4050KV	360W

**Features**

1. The 430L is maintenance free, and has a light, compact design. Gilt terminals are included for simple connection with ESC. The motor operates with very high efficiency, and low power consumption. The motors will provide many hours of smooth, reliable, quiet, and efficient flying.
2. These new brushless motors are designed with a new radiator system. The motors are built with an integrated cooling fan and has air ingress/egress vents, circulating cool air inside the rotor continuously. The motors efficiently lower operating temperature.
3. The motors feature High-speed ball bearings, powerful magnetic outrunner rotor. These high-torque, high-speed, brushless motors, RCM-BL430L, are suitable for RC electronic products. The features of high efficiency output, low amperage, and light weight are suitable for electronic car airplanes/helicopters which require high-torque and high-speed power systems. We recommend using one of our perfectly mated Brushless Speed Controllers, such ALIGN or other brushless electronic speed controllers available on the market.

Rotor is constructed with very powerful Ndfeb Magnets. The stator is coiled by our NC auto winding machine, formed and protected with high strength resin for heat resistance and low vibration. The spindle is designed with Hardened Stainless Steel and a double ZZ high speed bearing. Additionally, 430 brushless AC motor is custom developed by ALIGN R&D technology specifically for RC model use. These motors provide long lasting, high efficiency, impact-resistance, low magnetic loss.

These new product have passed various thorough inspections made by our technical department, including motive testing, static testing, magnetic field testing, heat resistance and magnetic loss testing, running balance and vibration testing, noise testing, and many hours of actual loading and flying testing, etc. Align is proud to provide the latest innovations in RC Modeling to its consumers. Please enjoy your Align products safely.

**CONSTANT VOLTAGE TESTING REFERENCE**

According to battery characteristic, the current, RPM, thrust are calculated about 90% when actually using lithium battery for a test.

KV	Voltage	Current	Prop Dimension	Thrust	RPM	G/W	G/A
3150KV	7.4V	7.4	ALIGN 4.2x2	223	21457 rpm	3.8	30.1
	9.6V	12.1	ALIGN 4.2x2	372	26810 rpm	3.1	30.7
	11.1V	15.8	ALIGN 4.2x2	478	29897 rpm	2.6	30.3
	7.4V	16.3	ALIGN 4.7x4.7	283	18195 rpm	2.2	17.4
	9.6V	23.1	ALIGN 4.7x4.7	392	21521 rpm	1.6	17.0
	7.4V	14.6	APC 4.7x4.2	294	18972 rpm	2.5	20.1
	9.6V	21.9	APC 4.7x4.2	425	22653 rpm	1.9	19.4
	7.4V	13.6	APC 4.5x4.1	285	19421 rpm	2.7	21.0
	9.6V	20.1	APC 4.5x4.1	428	23662 rpm	2.1	21.3
	7.4V	12.4	APC 5x3	355	19707 rpm	3.6	28.6
	9.6V	18.6	APC 5x3	545	24188 rpm	2.9	29.3
	11.1V	22.7	APC 5x3	667	26543 rpm	2.5	29.4
3550KV	7.4V	10.7	ALIGN 4.2x2	305	23487 rpm	3.7	28.5
	9.6V	17.4	ALIGN 4.2x2	493	28811 rpm	2.7	28.3
	11.1V	22.4	ALIGN 4.2x2	615	31836 rpm	2.3	27.5
	7.4V	22.7	ALIGN 4.7x4.7	335	19266 rpm	1.8	14.8
	7.4V	17.9	APC 4.5x4.1	315	20537 rpm	2.2	17.6
	9.6V	26.3	APC 4.5x4.1	435	24144 rpm	1.6	16.5
4050KV	7.4V	14.3	ALIGN 4.2x2	352	26231 rpm	3.1	24.6
	9.6V	23.2	ALIGN 4.2x2	562	31720 rpm	2.4	24.2
	11.1V	28.5	ALIGN 4.2x2	678	33909 rpm	1.9	23.8
	7.4V	26.3	ALIGN 4.7x4.7	351	20055 rpm	1.6	13.3
	7.4V	22.4	APC 4.5x4.1	374	22029 rpm	2.1	16.7
	7.4V	23.8	APC 4.7x4.2	386	21391 rpm	1.9	16.2
	7.4V	21.3	APC 5x5	490	22739 rpm	2.8	23.0