Brushless Outrunner Electric Motor Instructions

Covering Series 2826, 2830, 2835, 3528, 3526

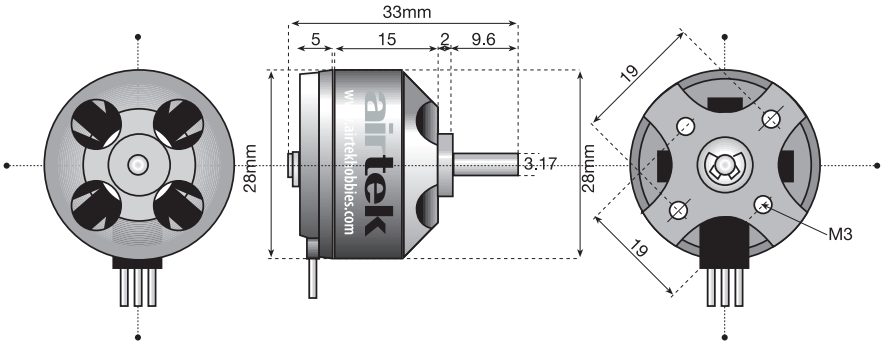
Thank you for purchasing an Airtek brushless outrunner motor. This has been manufactured to the highest standards, and when used within the specifications should provide a long and trouble free service life.

Your motor to ESC wires are provided bare ended to fit your own connectors. Always fit high quality connectors (we recommend 3.5mm gold bullet connectors, available from www.airtekhobbies.com), use a quality solder and flux and isolate with heat shrink tube. Attach the motor to the mount using the 4 recessed screws, you may apply a small amount of thread lock if desired. Mount the motor to the models firewall following the manufacturers instructions.

- Always use the correct size propeller for the highest performance. Use of an incorrect size propeller may damage the motor.
- Always run the motor below maximum current specifications for a longer life.
- Do not run the motor for more than 60 seconds full power on the ground. The motor unloads and receives maximum cooling during flight.
- Always ensure adequate cooling for your motor, particularly with in cowl installations.
- Always make sure the surrounding area is clear of debris and spectators, and is adequately restrained when powering up. **ELECTRIC MOTORS CAN BE DANGEROUS** - always handle them with respect.
- The quality of your ESC has a great impact on the performance of your motor. If your motor makes unusual sounds try re-timing your ESC.
- Do not store your motor close to magnetic articles.
- Never guess your set-up - use a Watt Meter, they are relatively inexpensive and you can be sure your motor is running within limits.
- Always use an ESC of at least the minimum Amp rating that is designed for use with a brushless motor. Where weight and space permit consider using an ESC of a higher rating.
- Never shorten the wires or cut off the connectors - de-solder them if required. Running the motor with shorter wires will result in damage.
- When connecting the 3 motor wires to the ESC check for correct rotation of the propeller. If the propeller rotates in the opposite direction to that desired, simply swap any two wires for correct rotation direction.

The following specifications are split into 5 sections to cover the 5 series as per the heading of these instructions

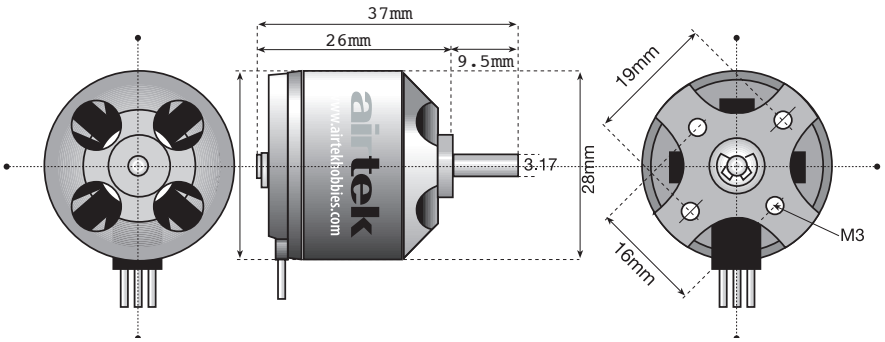
2826 Series (1100, 1450, 1800, 2600kv) AK/2826/1100/7T, AK/2826/1450/14T, AK2826/1800/12T, AK2826/2600/8T



Please Note: This drawing is NOT to scale

	kv RPM	Power (watts)	No. of Cells	Max Efficiency	Max Current	Rec ESC	No Load Current @10v	Internal Resistance	Dimensions	Weight	Shaft Dia.	Rec Model Weight	Rec Prop
1100/17T	1100	90 Watts	2-3 lipo, 8-10 Nixx	80%	8A/60secs	18A	0.4A	225 Ω	28x26mm	36g	3.175mm	200-500g	2s 10x5 3s 9x5
1450/14T	1450	130 Watts	2-3 lipo, 8-10 Nixx	80%	12A/60secs	20A	0.6A	140 Ω	28x26mm	36g	3.175mm	200-500g	2s 9x5 3s 8x4.5
1800/12T	1800	135 Watts	2-3 lipo, 8-10 Nixx	78%	16A/60secs	20A	0.8A	90 Ω	28x26mm	36g	3.175mm	200-500g	2s 8x4.5 3s 7x4
2600/8T	2600	170 Watts	2-3 lipo, 8-10 Nixx	78%	20A/60secs	25A	1.3A	62 Ω	28x26mm	36g	3.175mm	200-500g	2s 7x3.5 3s 7x3

2830 Series (930, 1100, 1400, 2200 kv) AK/2830/930/15T, AK/2830/1000/13T, AK2830/1400/10T, AK/2830/2200/6T



Please Note: This drawing is NOT to scale

	kv RPM	Power (watts)	No. of Cells	Max Efficiency	Max Current	Rec ESC	No Load Current @10v	Internal Resistance	Dimensions	Weight	Shaft Dia.	Rec Model Weight	Rec Prop
930/15T	930	130 Watts	2-3 lipo, 6-10 Nixx	80%	12A/60secs	18A	0.5 A	90 Ω	28x30mm	47g	3.175mm	200-600g	2s 10x5 3s 9x5
1000/13T	1000	135 Watts	2-3 lipo, 6-10 Nixx	80%	12A/60secs	18A	0.5A	90 Ω	28x30mm	47g	3.175mm	200-600g	3s 9x6, 10x5
1400/10T	1400	150 Watts	2-3 lipo, 8-10 Nixx	78%	16A/60secs	20A	0.7A	65 Ω	28x30mm	47g	3.175mm	200-600g	2s 10x4.7 3s 8x5
2200/6T	2200	210 Watts	2-3 lipo, 5-7 Nixx	75%	28A/60secs	25A	1.4A	45 Ω	28x30mm	47g	3.175mm	200-600g	2s 6x4 3s 5x5

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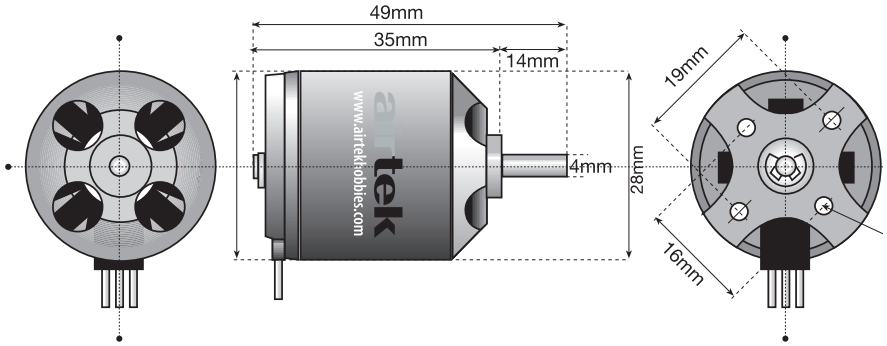
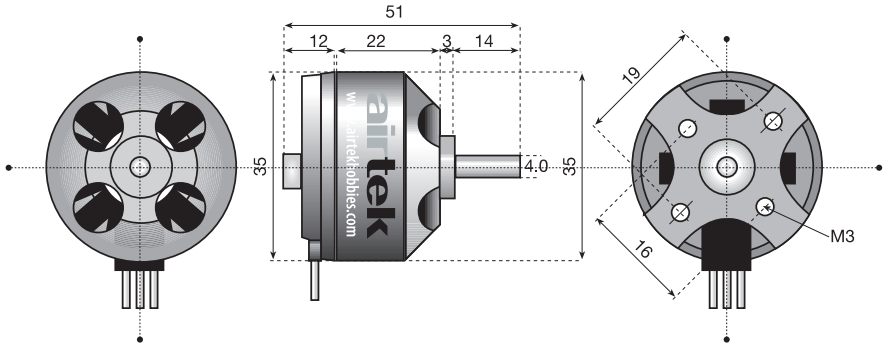
2835 Series (950, 1500, 1250, 1100kv) AK2835/950/7T, AK2835/1100/8T, AK2835/1250/7T, AK/2835/1500/6T



Please Note: This drawing is NOT to scale

	kv RPM	Power (watts)	No. of Cells	Max Efficiency	Max Current	Rec ESC	No Load Current @10v	Internal Resistance	Dimensions	Weight	Shaft Dia.	Rec Model Weight	Rec Prop
950/9T	950	230 Watts	2-3 lipo, 8-12 Nixx	80%	18A/60secs	30A	0.9A	95 Ω	28x35mm	72g	4 mm	300-1000g	2s 11x4.75 3s 10x6
1100/8T	1100	230 Watts	2-3 lipo, 8-10 Nixx	81%	18A/60secs	30A	1.0A	125Ω	28x35mm	73g	4 mm	300-800g	2s 10x4.7 3s 9x5
1250/7T	1250	240 Watts	2-3 lipo, 6-10 Nixx	79%	18A/60secs	30A	1.3A	150 Ω	28x35mm	72g	4 mm	300-550g	2s 10x4.7 3s 9x5
1500/6T	1500	250 Watts	2-3 lipo, 6-10 Nixx	80%	28A/60secs	30A	1.6A	100 Ω	28x35mm	73g	4 mm	300-1000g	2s 9x5 3s 8x4

3528 Series (1100, 1200, 1500) AK3528/1100/12T, AK3528/1200/11T, AK3528/1500/9T



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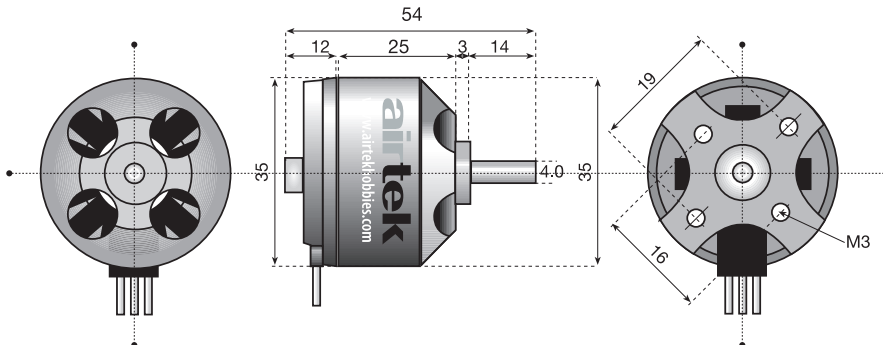
At the time of compiling these instructions we are still waiting for full technical specifications on the 3528 Series.

	kv RPM	Power (watts)	No. of Cells	Max Efficiency	Max Current	Rec ESC	No Load Current @10v	Internal Resistance	Dimensions	Weight	Shaft Dia.	Rec Model Weight	Rec Prop
1100/12T	1100	TBA	2-3 lipo, 8-12 Nixx	TBA	TBA	35A	TBA	TBA	35x28mm	78g	4 mm	TBA	2s 12x8 3s 11x5.5
1200/11T	1200	TBA	2-3 lipo, 6-8 Nixx	TBA	TBA	35A	TBA	TBA	28x35mm	78g	4 mm	TBA	2s 11x4.7 3s 10x6
1500/9T	1250	TBA	2-3 lipo, 6-8 Nixx	TBA	TBA	35A	TBA	TBA	28x35mm	78g	4 mm	TBA	2s 11x4.7 3s 10x7

3536 Series (1100, 1410, 1660) AK3536/1000/8T, AK3536/1410/6T, AK3536/1660/5T



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	kv RPM	Power (watts)	No. of Cells	Max Efficiency	Max Current	Rec ESC	No Load Current @10v	Internal Resistance	Dimensions	Weight	Shaft Dia.	Rec Model Weight	Rec Prop
1000/8T	1000	310 Watts	3-4 lipo, 8-12 Nixx	80%	30A/10 secs	33A	1.8A	72 Ω	35x36mm	102g	4 mm	TBA	3s 11x8 4s 10x7
1410/6T	1410	320 Watts	2-3 lipo, 7-10 Nixx	80%	40A/60 secs	33A	1.8A	50Ω	35x36mm	102g	4 mm	TBA	3s 9x5.5
1660/5T	1660	350	2-3 lipo, 6-8 Nixx	TBA	TBA	40A	2.1	50Ω	35x36mm	102g	4 mm	TBA	3s 9x5.5

Please note: all specifications are supplied in good faith and recommendations are included as a starting point. Individual examples of motors can vary slightly, and propellers from different manufacturers provide different loads. Wherever possible always use a watt meter to determine that the load on your particular motor is within specifications.

For a full range of accessories to compliment your motor, please visit www.airtekhobbies.com
We hope you enjoy your product - Happy Landings!