

Thank you for choosing Radiant

Designed specifically for use in model aircraft, all Radiant high-torque brushless motors feature a 14 pole precision-balanced rotor, 6061-T6 aluminium alloy front and rear covers, high purity copper windings and a heavy-duty stainless steel shaft. It's a combination that, in tandem with high-quality oversize bearings, offers beautifully smooth running, longevity and an ability to turn large propellers. With a mounting option at either end, Radiant brushless outrunners are engineered to offer the flexibility and power you need over a long and trouble-free life.



Box contents

- 1x Radiant brushless motor.
- 1x Shaft prop drive.
- 1x Can prop drive.
- 1x X-type mounting bracket.
- 4x Short countersunk screws for attaching the bracket to the motor.
- 4x Long cap head screws for can prop drive installation.

Features

- 14 Pole 12 slot hi-torque rotor.
- CNC-machined 6061-T6 billet heatsink can.
- High purity, maximum efficiency copper windings.
- High RPM ABEC5 oversized bearings.
- Precision balanced rotor offers smooth, reliable performance.
- Super-thin (0.2mm) stator laminations.
- Precision engineered for maximum energy conversion.

Installation

1. Attaching the accessories to the motor

Use only the short countersunk screws to secure the X-type mount to the base of the motor. **Warning:** Using longer screws will damage the motor. If fitting the can-mounted prop drive, use the long cap head screws to secure the drive to the motor can. When installing the prop drive it is important that it's mounted correctly and that the screws are tightened bit by bit to ensure the seating of the drive unit is central to the can. This will illuminate any off-centre vibration. A standard shaft prop drive has been supplied if you wish to run the motor in this configuration.

2. Motor connections

There is no polarity when connecting the three motor wires to the ESC. If the rotation of the motor is incorrect, simply swap around any two of the three wires.

3. Installation

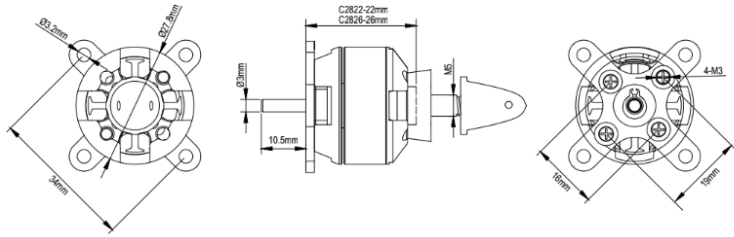
Secure the motor to your aircraft with bolts (not included) that are adequate to ensure that it does not come loose in flight. Once installed please ensure the motor is free and not binding against the airframe. Failure in any part of the installation could cause irreparable damage to the motor.

Warnings

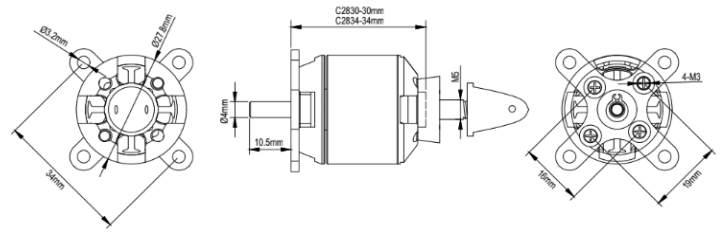
Before using, ensure that the power system you have adopted is matched to the motor. Failure to do so could cause damage to the motor. Before connecting the motor, ensure that all wires and connections are insulated. Ensure the motor is connected correctly and running in the right direction. NEVER test the motor with a propeller fitted. Do not run the motor at temperatures above 100°C (212°F). Do not touch the motor after use as it may be too hot.

Radiant Motor Sizes

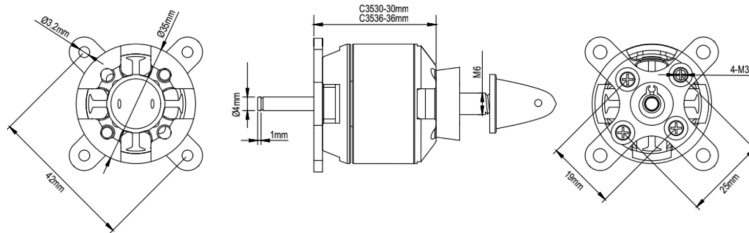
Radiant 2822/2826



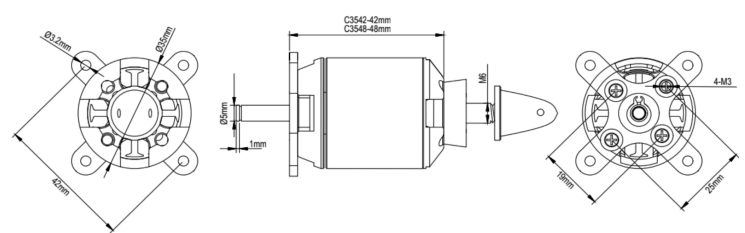
Radiant 2830/2834



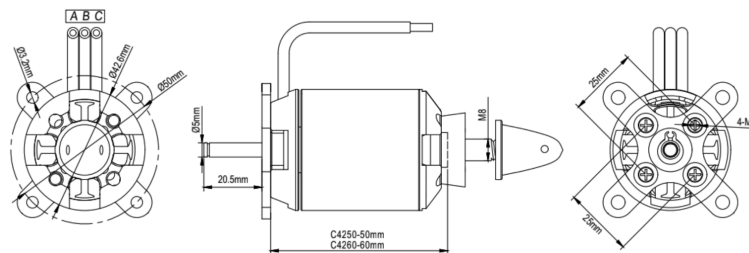
Radiant 3530/3536



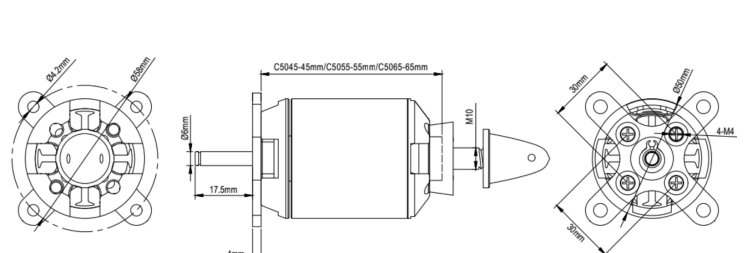
Radiant 3542/3548



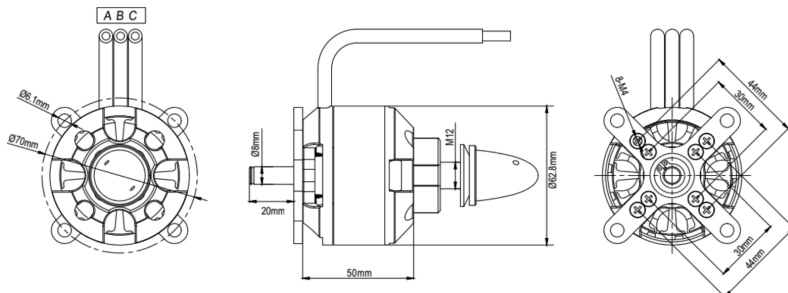
Radiant 4250/4260



Radiant 5045/5055/5065



Radiant 6354



Limited warranty

Radiant products are covered by the currently valid statutory warranty regulations. If you wish to make a claim under the limited warranty, please contact the model shop from where you originally purchased the unit. The limited warranty does not cover:

- Damage due to commercial use, negligence, misuse, abuse, accident, or acts of god.
- Damage due to improper installation, operation or maintenance.
- Normal wear and tear.
- Cosmetic damage.
- Modifications or repairs not carried out by an authorised service centre.
- Product not purchased from an authorised dealer.
- The use of accessories other than original items.
- Use of the unit outside the stated specification.

Recommendation

We recommend the use of Radiant ESCs and Radiant's LCD Program Controller. Radiant ESCs are available in the following sizes:

RDNE2024 - 20A ESC SBEC G2 (2-4 Cells)
 RDNE4024 - 40A ESC SBEC G2 (2-4 Cells)
 RDNE6026 - 60A ESC SBEC G2 (2-6 Cells)
 RDNE10026 - 100A ESC SBEC G2 (2-6 Cells)
 RDNE1000 - LCD Program Card G2

RDNE3024 - 30A ESC SBEC G2 (2-4 Cells)
 RDNE5024 - 50A ESC SBEC G2 (2-4 Cells)
 RDNE8026 - 80A ESC SBEC G2 (2-6 Cells)

Model	KV (RPM/V)	Power (W)	LiPo	ESC	Weight (g)	Max (A)	Shaft (mm)	Motor Size (mm)	Prop Sizes	
RDNM28221200	1200	140	2-3s	20	30	11	3	28x22	10x6 / 11x5.5 (2s)	9x5 / 10x5 (3s)
RDNM28221600	1600	180	2-3s	20	30	15	3	28x22	8x4 / 9x6 (2s)	7x4 / 8x4 (3s)
RDNM28222300	2300	180	2-3s	20	30	18	3	28x22	6x3 / 7x3.5 (2s)	5x4 / 6x3 (3s)
RDNM28261000	1000	220	2-3s	30	45	20	3	28x26	10x6 / 11x6 (2s)	9x6 / 10x5 (3s)
RDNM28261300	1300	240	2-3s	30	45	24	3	28x26	9x6 / 10x5 (2s)	8x4 / 9x5 (3s)
RDNM28261900	1900	250	2-3s	30	45	27	3	28x26	8x4 / 9x5 (2s)	7x4 / 8x4 (3s)
RDNM28262200	2200	270	2-3s	30	45	30	3	28x26	6x4 / 7x3 (2s)	5x4 / 6x3 (3s)
RDNM28301000	1000	260	2-3s	30	57	21	3	28x30	10x6 / 11x5.5 (2s)	9x6 / 10x5 (3s)
RDNM28301300	1300	300	2-3s	30	57	25	3	28x30	9x6 / 10x6 (2s)	8x6 / 9x6 (3s)
RDNM2836880	880	340	2-4s	30	67	22	4	28x36	10x6 / 11x5.5 (3s)	9x6 x 10x6 (4s)
RDNM28361100	1100	380	2-4s	30	67	26	4	28x36	9x6 / 10x6 (3s)	8x6 / 9x6 (4s)
RDNM28361200	1200	390	2-4s	30	67	27	4	28x36	9x6 / 10x6 (3s)	8x6 / 9x6 (4s)
RDNM35301100	1100	310	2-4s	50	109	30	4	35x30	10x6 / 11x5 (3s)	9x6 / 10x6 (4s)
RDNM35361050	1050	500	2-4s	60	109	38	4	35x36	10x6 / 11x5 (3s)	9x6 / 10x6 (4s)
RDNM35361300	1300	680	2-4s	60	109	50	4	35x36	9x6 / 10x6 (3s)	8x6 / 9x5 (4s)
RDNM35361500	1500	750	2-4s	80	109	55	4	35x36	8x6 / 9x5 (3s)	8x4 / 8x5 (4s)
RDNM35421000	1000	750	2-4s	60	132	55	5	35x42	11x5 / 12x6 (3s)	8x7 9x8 (4s)
RDNM35421250	1250	850	2-4s	80	132	65	5	35x42	9x6 / 10x5 (3s)	8x4 9x5 (4s)
RDNM3548790	790	840	2-4s	80	172	50	5	35x48	11x7 / 13x6(3s)	9x7 / 10x8 (4s)
RDNM3548900	900	1000	2-4s	80	172	60	5	35x48	10x7 / 12x7 (3s)	9x6 / 10x7 (4s)
RDNM35481100	1100	1100	2-4s	80	172	72	5	35x48	11x5.5 / 11x6 (3s)	8x6 9x6 (4s)
RDNM4250800	800	1250	2-5s	80	205	62	5	42x50	13x6 / 14x7 (3s)	12x8 / 13x7 (5s)
RDNM4260600	600	1500	3-5s	80	275	75	5	42x60	12x6 / 13x6 (4s)	11x6 / 12x6 (5s)
RDNM5045720	720	860	3-5s	80	195	43	6	50x45	13x6 / 14x6 (4s)	12x6 / 13x6 (5s)
RDNM5055570	570	1550	4-6s	80	275	65	6	50x55	14x7 / 15x6 (4s)	13x6 / 14x5 (6s)
RDNM5055760	760	1660	3-5s	100	275	83	6	50x55	13x6 / 14x6 (4s)	12x6 / 13x6 (5s)
RDNM5065335	335	1600	4-7s	100	375	53	6	50x65	18x8 / 19x7 (6s)	17x7 / 18x6 (7s)
RDNM5065435	435	1750	4-6s	100	375	73	6	50x65	18x7 / 19x6 (4s)	17x6 / 18x5 (6s)
RDNM6354200	200	2210	4-10s	100	480	53	8	63x54	19x12 / 22x12 (8s)	18x12 / 20x10 (10s)

Please note

The propeller sizes in the chart above are included only as a guide. In this respect you should always check the current draw (A) of your specific installation to ensure that you do not exceed the tolerances of your chosen Radiant motor.

CE / UKCA CONFORMITY

J Perkins (Distribution) confirms this product is in compliance with the relevant harmonised European directives relating to its safe operation.

WEEE

This appliance is labelled in accordance with European Directive 2012/19/EU & UKCA Directive concerning Waste Electrical and Electronic Equipment (WEEE). The WEEE Directive came into force to reduce the disposal of domestic waste and promote recycling. Any electrical item that carries the crossed out wheelie bin logo must not be disposed of in domestic waste but should be taken to a designated collection facility. J Perkins (Distribution) are a member of an approved compliance scheme to encourage consumers to recycle unwanted items. Your local authority will be able to provide details of your nearest approved waste disposal site.

Distributed by

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