

Brushless Motor Systems

Novak brushless motors offer higher efficiency and better performance than brushed car and truck motors, with the added bonus of virtually no maintenance. Combine these exceptional power plants with the advanced technology of a Novak electronic speed control, and you've got an unbeatable system!

Value-packed **GTB/Velociti Systems** include a ROAR-legal Velociti Brushless Motor and a GTB Programmable Racing ESC. There are 5 models, including the **GTB/Velociti 3.5**, Novak's fastest for competition-level touring cars. Touring cars and high-traction off-roads will benefit from systems with Velociti 4.5- and 5.5-turn motors, while the **GTB/Velociti 6.5** and **GTB/Velociti 7.5** systems are ideal for off-road and low-traction applications.

GTB/SS Pro Systems offer five more choices based on ROAR-legal SS Pro Brushless Motors. The **GTB/SS 8.5 Pro** is a fine match for sport batteries, entry-level equipment and off-road racing. With performance similar to a 19-turn brushless motor, the **GTB/SS 10.5 Pro** suits SS4300 class racing to a tee. Great for stock class races, the **GTB/SS 13.5 Pro** provides performance similar to a 27-turn stock brushed motor. Novak also offers two systems design just for 4-cell applications: the **GTB 4-Cell/SS 10.5 Pro** for the Brushless Racing League's Pro 4300 class and **GTB 4-Cell/SS 13.5 Pro** for 13.5 class races.

The lower turn brushless motor in the **HV High Voltage System 4.5** produces the raw power and rpm needed for extreme vehicles such as the Traxxas® E-Maxx™ and Tamiya® TXT™. Get ballistic speeds without compromising run times with the **HV High Voltage System 6.5**. Both feature a nickel-plated sintered rotor that improves acceleration, top end and braking. Both also include lightweight ribbed aluminum endbells and a Power Boost ESC fan for added cooling and efficiency and the Smart-Stop 4-cell LiPo Cut-off Module to monitor battery voltage.

Another Novak first: the **Crawler Sintered Brushless System**, designed for movement precision and models that require super-low speeds. It now features the same high-performance sintered rotor found in Velociti motors — perfect for enhancing performance in any application. It also includes two driving profiles, with a special reversing feature for shaft-driven trucks using gear reduction units.

XBR/EX Sport Brushless Systems are an ideal first brushless upgrade, ready to "plug and play" right out of the box. Each includes an EX Sport Brushless Motor factory-wired to the XBR Sport Brushless ESC.



Stock #	Description	Retail	Tower
NOVC3000	GTB/Velociti Brushless System 3.5.....	\$475.00	\$269.99
NOVC3001	GTB/Velociti Brushless System 4.5.....	454.00	259.99
NOVC3002	GTB/Velociti Brushless System 5.5.....	444.00	249.99
NOVC3003	GTB/Velociti Brushless System 6.5.....	444.00	249.99
NOVC3007	GTB/Velociti Brushless System 7.5.....	444.00	259.99
NOVC3008	GTB/SS 8.5 Pro Brushless System.....	444.00	264.99
NOVC3010	GTB/SS 10.5 Pro Brushless System.....	444.00	264.99
NOVC3013	GTB/SS 13.5 Pro Stock Brushless System.....	444.00	259.99

Stock #	Description	Retail	Tower
NOVC3019	Crawler Sintered Brushless System 18.5.....	\$339.00	\$209.99
NOVC3020	HV High-Voltage Brushless System 6.5.....	515.00	299.99
NOVC3021	HV High-Voltage Brushless System 4.5.....	515.00	299.99
NOVC3030	XBR Sport/EX 8.5 Brushless System.....	299.00	174.99
NOVC3031	XBR Sport/EX 10.5 Brushless System.....	299.00	179.99
NOVC3032	XBR Sport/EX 13.5 Brushless System.....	299.00	179.99
NOVC3040	GTB 4-Cell/SS 10.5 Pro Brushless System.....	444.00	259.99
NOVC3043	GTB 4-Cell/SS 13.5 Pro Stock Brushless.....	444.00	259.99

All Novak Brushless Motors are sensor-based!

PART #	PRODUCT	SIZE ¹	TURNS	RESISTANCE	INPUT ² VOLTAGE	WATTS ³	KV ⁴ (RPM/VOLT)	WEIGHT (oz)	SHAFT ⁵ DIAMETER	FRONT BALL ⁶ BEARING	ROTOR PER ⁷ RPM/TEMP	SOLDER TABS	THERM ⁸ PROT.	TIMING RING	END BELLS
VELOCITI SERIES															
NOVC3403	VELOCITI 3.5R	540	3.5	2.0	4-6	620	10,500	6.61	0.125"	LARGE	HIGH/HIGH ⁵	Y	Y	BLK	RIBBED
NOVC3404	VELOCITI 4.5R	540*	4.5	3.1	4-6	530	9,000	6.61	0.125"	LARGE	HIGH/HIGH ⁵	Y	Y	BLK	RIBBED
NOVC3405	VELOCITI 5.5R	540*	5.5	4.4	4-6	420	7,400	6.61	0.125"	LARGE	HIGH/HIGH ⁵	Y	Y	BLK	RIBBED
NOVC3406	VELOCITI 6.5R	540*	6.5	5.9	4-6	390	6,400	6.61	0.125"	LARGE	HIGH/HIGH ⁵	Y	Y	BLK	RIBBED
NOVC3407	VELOCITI 7.5R	540*	7.5	8.0	4-6	340	5,800	6.61	0.125"	LARGE	HIGH/HIGH ⁵	Y	Y	BLK	RIBBED
SS PRO SERIES															
NOVC3408	SS8.5 PRO	540	8.5	13.3	4-7	280	5,000	6.61	0.125"	LARGE	HIGH/HIGH ⁵	Y	Y	BLK	RIBBED
NOVC3410	SS10.5 PRO	540	10.5	16.7	4-7	235	4,200	6.61	0.125"	LARGE	HIGH/HIGH ⁵	Y	Y	BLU	RIBBED
NOVC3413	SS13.5 PRO	540*	13.5	26.5	4-7	195	3,300	6.61	0.125"	LARGE	HIGH/HIGH ⁵	Y	Y	ORG	RIBBED
NOVC3419	CRAWLER-18.5	540	18.5	47.7	4-6	119	2,700	6.61	0.125"	LARGE	HIGH/HIGH ⁵	Y	—	BLK	RIBBED
HV SERIES															
NOVC3424	HV4.5	550	4.5	4.5	6-14	750	4,800	8.36	0.125"	LARGE	HIGH/HIGH ⁵	Y	Y	BLK	RIBBED
NOVC3426	HV6.5	550	6.5	8.9	6-14	550	3,100	8.36	0.125"	LARGE	HIGH/HIGH ⁵	Y	Y	BLK	RIBBED
EX SERIES															
NOVC3430	EX8.5	540	8.5	13.3	4-7	225	5,000	6.73	0.125"	STD	STD/STD	Y	Y	BLK	SMOOTH
NOVC3431	EX10.5	540	10.5	16.7	4-7	195	4,200	6.73	0.125"	STD	STD/STD	Y	Y	BLK	SMOOTH
NOVC3432	EX13.5	540	13.5	26.5	4-7	165	3,300	6.73	0.125"	STD	STD/STD	Y	Y	BLK	SMOOTH

¹540 (2.08" L x 1.41" D); 52.8mm x 35.8mm); 550 (2.84" L x 1.41" D); 72.1mm x 35.8mm)
²2Volts/Cells
³Power output for six minutes
⁴Indicates how fast the motor will turn for a given voltage given no internal resistance
⁵Accepts all standard RC pinion gears (0.125")

⁶Large = 1/2" x 3/16"; Std = 3/8" x 1/8"
⁷Factors indicate rotor's ability to handle higher RPMs and higher temperatures
⁸1.2V/cell @4-7 cells = 4.8-8.4 total volts; (input voltage of GTB is 4-6 cells)
⁹With High-Performance Nickel-plated Sintered Neodymium Rotor (ROAR-Approved!)

*Motors have been upgraded with a high performance Sintered Rotor and Ribbed End Bells (except NOVC3404 which already featured ribbed end bells). Specifications listed above are for updated motors. NOVC3413 motor was also updated with an orange timing ring.

*Front end bell is ribbed. If motor has smooth end bells, use NOVC5920.
 **This is an upgraded rotor for the original version of the motor.
 ***Contains a Velociti Rotor and Front End bell with large bearing. Can also use Velociti-2 Rotor (NOVC5908) and Bearing Bell (NOVC5919/5920).
 s = Sintered rotor material

NOVAK BRUSHLESS MOTOR SPEC CHART

MOTOR REPLACEMENT & UPGRADE ACCESSORY P/N			
ROTOR-REPL	ROTOR UPGRADE	BEARING-REPL	HEAT SINK
VELOCITI SERIES			
NOVC5908	N/A	NOVC5919	NOVC5413/14/15
NOVC5908*	N/A	NOVC5919	NOVC5413/14/15
NOVC5908*	N/A	NOVC5919*	NOVC5413/14/15
NOVC5908*	N/A	NOVC5919*	NOVC5413/14/15
NOVC5908*	N/A	NOVC5919*	NOVC5413/14/15
SS PRO SERIES			
NOVC5908	N/A	NOVC5919	NOVC5413/14/15
NOVC5908	N/A	NOVC5919	NOVC5413/14/15
NOVC5908*	N/A	NOVC5919*	NOVC5413/14/15
NOVC5908	N/A	NOVC5919	NOVC5413/14/15
HV SERIES			
NOVC5912	N/A	NOVC5919	NOVC5412
NOVC5912	N/A	NOVC5919	NOVC5412
EX SERIES			
NOVC5906	NOVC5923**	NOVC5905/5923**	NOVC5413/14/15
NOVC5906	NOVC5923**	NOVC5905/5923**	NOVC5413/14/15
NOVC5906	NOVC5923**	NOVC5905/5923**	NOVC5413/14/15