



NEW PRODUCT OFFERINGS

Building on the success of the **COBRA 10** and **COBRA 8**, we are excited to announce the release of the all-new **COBRA 5**, engineered for 1/7th and 1/5th scale high-performance RC applications! The **COBRA 5** is designed to deliver precision, durability, and unmatched power-handling capabilities.

New tuning parameters include adjustable braking curves and independent reverse settings to reduce the risk of broken gears, snapped driveshafts, and blown differentials, all while experiencing smoother transitions. Users will feel a more realistic and predictable driving experience while saving their drivetrain from unnecessary stress.



Whether tweaking the suspension or altering tire pressure, data-driven decisions lead to optimal performance in an R/C vehicle, and the **COBRA SERIES** enhanced data logging includes double the maximum sample frequency of older generations, providing more granular data for analyzing performance. Gone are the days of clearing data logs—users will experience increased logging time and enjoy the new looping feature that prevents interruptions in recording. New data points for ESC electrical motor timing and acceleration via the onboard accelerometer provide insight into needed adjustments to detect tire slippage or fine-tune motor efficiency.

Access to tuning options, data logs, and firmware updates for the **COBRA SERIES** ESCs is available at no charge using the Castle Link V4 USB adapter included in the box and Castle Link 2 software, available for download on the Castle Creations website.

The **COBRA 5** is packed with a potent combination of hardware and software advancements, making it an indispensable ally in high-performance power systems. Users will benefit from the same footprint as its predecessor, the Mamba XLX2, while an upgraded current-sensing and thermal protection system actively mitigates the risk of failure in aggressive or high-load setups. The **COBRA 5** is available to purchase as an ESC-only option or packaged with three Castle 4-POLE 12-SLOT motor options to overpower a wide range of 1/7th and 1/5th scale vehicles.

COBRA 5 NEW FEATURES:

- 32-Bit processing power for smoother motor control and improved response time.
- Enhanced Data Logging includes:
 - Double the maximum sample frequency of older generations.
 - 8x increased logging time of older generations.
 - ESC electrical motor timing data.
 - Acceleration data via onboard accelerometer.
 - Looping feature prevents interruptions in data log recording.
- Additional tuning features include:
 - Improved braking adjustability
 - Separate brake and reverse curves
 - Highly adjustable internal BEC. (5.0V - 8.5V adjustable in 0.1V increments)
- Access to tuning options and firmware updates for free with Castle Link V4 USB programmer included with purchase.

ADDITIONAL FEATURES:

- **CRYO-DRIVE™ Technology** minimizes the amount of time the ESC's electrical components spend generating heat, resulting in improved thermal performance during partial throttle operation where the majority of driving occurs
- ESC is housed in a rugged CNC aluminum case and potted in waterproof epoxy to protect the electronics and promote efficient heat transfer
- Premium forged heatsink with elliptical fins for superior air flow and increased heat dissipation
- Oversized factory equipped thermally controlled 50mm cooling fan
- Waterproof design for all weather conditions
- Auxiliary wire functionality for "on-the-fly" adjustments using your transmitter
- Audible alerts for easy diagnosis of common issues such as motor-over-temperature and low-voltage cutoff
- Convenient transmitter programming for six common adjustable settings including cutoff voltage and drag brake

ITEM INFORMATION		
Item Number	Description	
010-0179-00	COBRA 5, 8S, 33.6V ESC, 20A PEAK BEC	
For 1:5 scale RC hobby vehicles weighing up to 42 lbs.		
010-0179-01	COBRA 5, 8S, 33.6V ESC, 20A PEAK BEC W/2028-800KV	
For 1:5 scale vehicles weighing up to 30lbs. and up to 8s LiPo.		
010-0179-02	COBRA 5, 8S, 33.6V ESC, 20A PEAK BEC W/2028-1100KV	
For 1:5 scale vehicles weighing up to 30lbs and up to 8s LiPo.		
010-0179-03	COBRA 5, 8S, 33.6V ESC, 20A PEAK BEC W/1721-1260KV	
For 1:7 scale vehicles weighing up to 25lbs. and up to 8s LiPo.		

TECHNICAL SPECIFICATIONS	
Input Voltage ESC:	MIN: 3S LiPo, MAX: 8S LiPo (33.6V)
Size:	101.2mm x 63.3mm x 59.5mm
Weight:	13.2 oz / 374 g / .82 lbs
BEC Voltage:	5.0V - 8.5V adjustable in 0.1V increments; (20A Peak); default 5.5V
Wire and Connectors:	8.0mm female bullets; matching 8.0mm male bullets required
Waterproof:	Yes, the Cobra 5 is potted in waterproof epoxy.
Running Modes:	SmartSense™ and Sensorless
Cooling Fan:	Yes, factory equipped (50mm), temperature controlled
Items Needed for Operation:	A high current connector designed for 150+ amps continuous, such as Castle 6.5mm polarized or CC Bullet 8.0MM, QS8 8mm Anti Spark, or QS10 10mm Anti Spark
Installation:	Mounting holes located in bottom of aluminum case for installation into vehicle
Programming:	Access to tuning options and firmware updates for free with Castle Link V4 USB adapter included with purchase. Now with USB-C connector! (Requires Windows 10 or higher)
Product Use Statements:	
Application Guidelines:	Designed for use in 1/7 th and 1/5 th scale RC vehicles. The Cobra 5 is not intended for drag racing applications
Cobra 5 Purchase Includes:	Cobra 5 ESC, 300mm direct connect sensor wire, Cobra Decals, Castle Link V4 USB Adapter, Cobra Quick Start Guide