Applications

The T200 was designed for various consumers and limitless applications. **Students and Schools** can use the T100 for educational projects or to compete in competitions such as the AUVSI RoboSub and RoboBoat competitions and the MATE ROV competition. It's capable and affordable hardware make it perfect for **Makers and Hobbyists,** as well as **Professional Users** who want a high-quality thruster that performs better than many of the high-end (expensive) alternatives.

Features

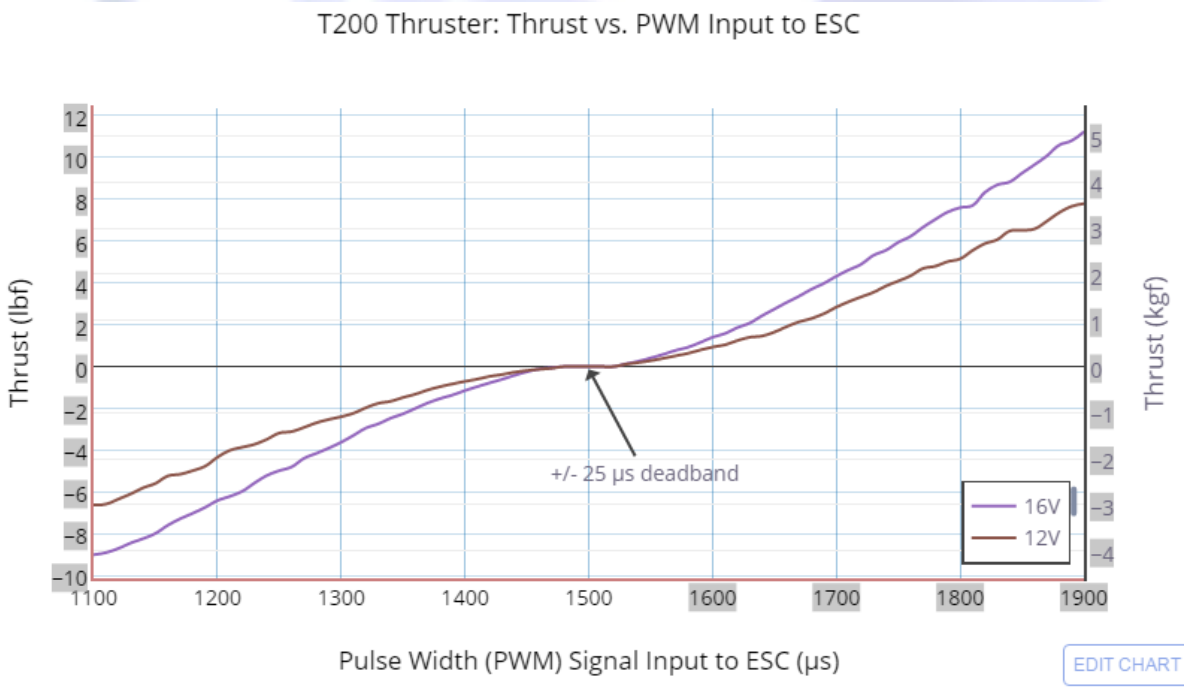
The T200 is basically a brushless electric motor, just like you'd find on an RC airplane or a quadcopter drone. The big difference is that this motor is purpose-built for use in the ocean and was designed specifically for use on ROVs, AUVs, and robotic surface vehicles. Of course you could also use it to propel your stand-up-paddleboard or cruise around while kayaking! It's **compact design** fits in any project. The T200 is made of **high-strength, UV resistant** polycarbonate injection molded plastic. The core of the motor is sealed and protected with an epoxy coating and it uses **high-performance plastic bearings** in place of steel bearings that rust in saltwater. Everything that isn't plastic is either aluminum or high-quality stainless steel that **doesn't corrode.** A specially designed propeller and nozzle provides **efficient, powerful** thrust while active water-cooling keeps the motor cool. Unlike other thrusters, our design doesn't have any air- or oil-filled cavities – water flows freely through all parts of the motor while it's running and can handle **extreme pressures.** The thruster is **easy to use:** just connect the three motor wires to any brushless electronic speed controller (ESC) and you can control it with an RC radio or a microcontroller. It's usable with Arduino, ArduPilot, Raspberry Pi, BeagleBone, and many other embedded platforms. The T200 comes with **clockwise and counter-clockwise propellers** to counter torque, as well as a bracket for **versatile mounting options** for use on almost anything.

Contents

- T200 Thruster
- Clockwise and counterclockwise propeller

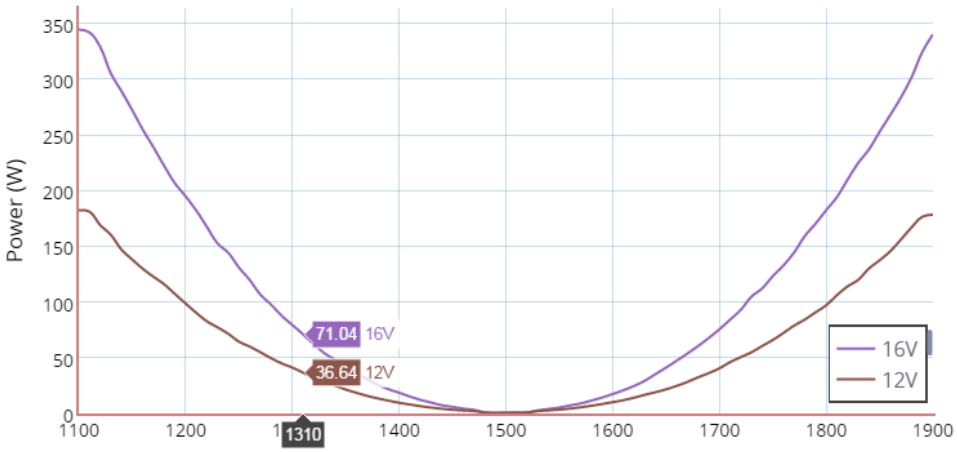
(Mounting bracket and screws are no longer included)

Performance Charts

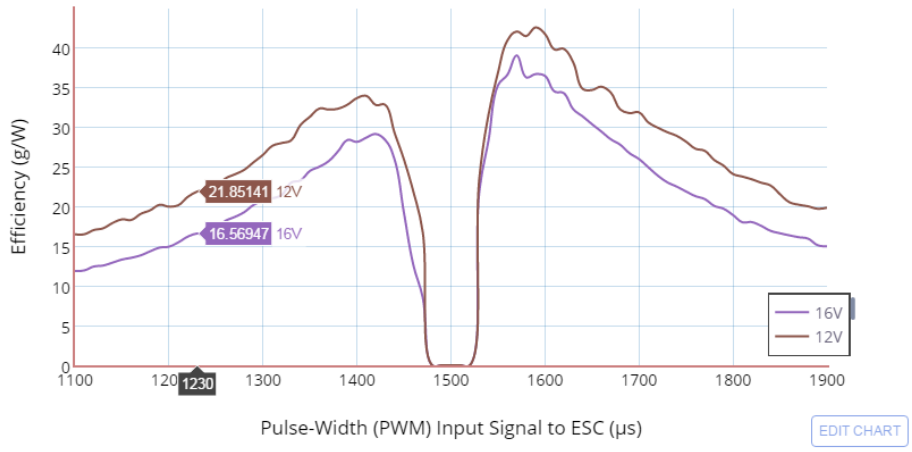


www.marine-distribution-consulting.com
Marine Distribution & Consulting SASU, 48 rue Claude Balbastre, 34070 Montpellier FRANCE

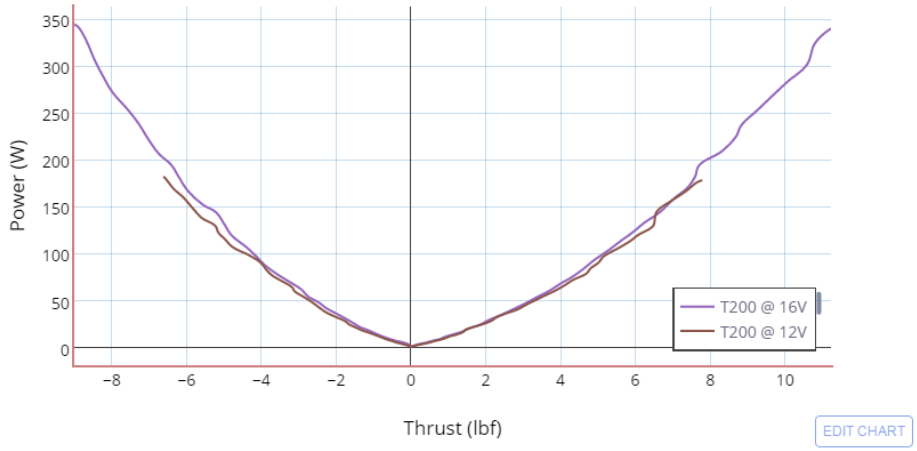
T200 Thruster: Power vs. PWM Input to ESC



T200 Thruster: Efficiency vs. PWM Input to ESC



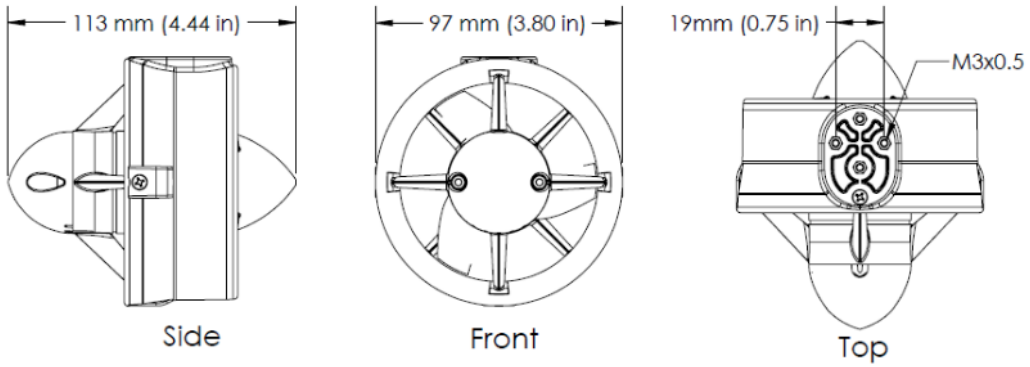
T200 Thruster: Power vs. Thrust



	Parameter	
Max Thrust – Forward @16V	11.2 lbf	5.1 kgf
Max Thrust – Reverse @ 16V	9.0 lbf	4.1 kgf
Max Thrust – Forward @12V	7.8 lbf	3.55 kgf
Max Thrust – Reverse @ 12V	6.6 lbf	3.0 kgf
Min Thrust	0.02 lbf	0.01 kgf
Rotational Speed	300-3800 rev/min	
Operating Voltage	6-20 volts	
Max Current	25 Amps	
Max Power	350 Watts	
Length	4.45 in	113 mm
Diameter	3.9 in	100 mm
Propeller Diameter	3.0 in	76 mm
Cable Length	39 in	1.0 mm
Mounting Hole Threads	M3x0.5	
Mounting Hole Spacing	0.75 in	19 mm
Weight in Air (with 1m cable)	0.76 lb	344 g
Weight in Water (with 1m cable)	0.34 lb	156 g

Dimensions

T200 Thruster (without BlueESC)



T200 Thruster with BlueESC