

CrustCrawler “High Flow” 600HF UROV Thruster Technical Specifications

CrustCrawler’s “High Flow” UROV thrusters were designed to be extremely powerful and customizable for any number of our customers unique UROV / ROV requirements. No other thruster on the market has the programmable flexibility to set specific operating parameters for different environmental conditions than the CrustCrawler “High Flow” series. Machined from top of the line materials and sealed with a custom designed fluoroloy spring jacket seal, these thrusters are powerful and engineered for powerful thrust capability in a small package.

Motor Specifications

- Motor Type – High efficiency brushless
- Weight – 274g. (9.7oz)
- Max Power – 600W
- Max Motor RPM – 40,000 RPM
- Gear Ratio – 4.28:1
- Shaft Diameter – 5.0mm(.1969”)
- Maximum Case Temperature – 100C (212F)
- Ideal Operating Voltage – 6 to 25 volts – 50 volt buses can be used but the thrust of 16 pounds cannot be exceeded.

Connector Specifications

- Mated Pressure In-Lines – 20,000 PSI.
- Mated Pressure Bulkhead – 10,000 PSI
- 4 prong

Thruster Housing / End Caps

- T- 6 Aluminum

Thruster Seal

- Custom fluoroloy spring jacket seal with multistage o-ring
- Seal life – 6 to 7 million revolutions

Finish

- Type III Hard Anodized Finish

Propeller

- Size - 3.4” - 4 blade
- Material – Solid Brass
- Propeller Adapter – Aluminum
- Efficiency Range – 1,500 – 3,000 RPM

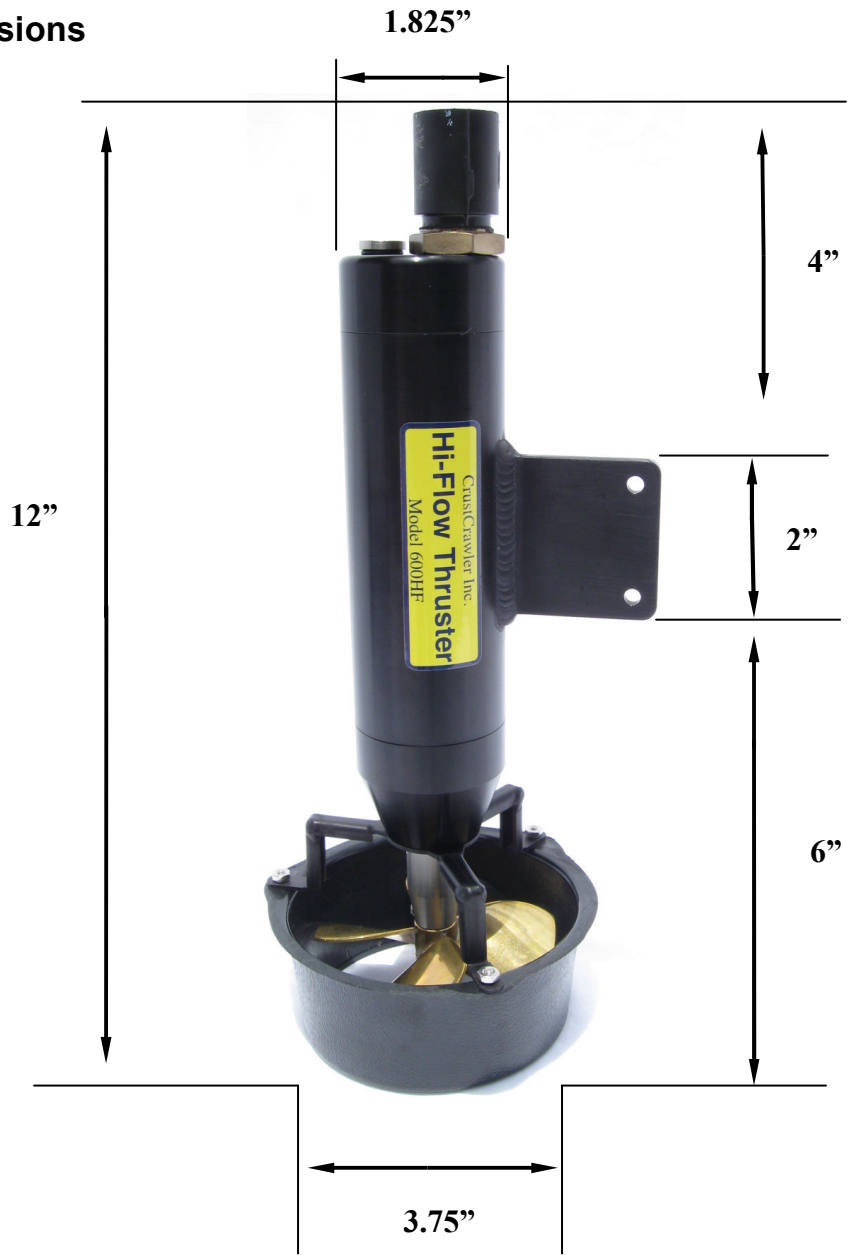
Kort Nozzle Adaptor

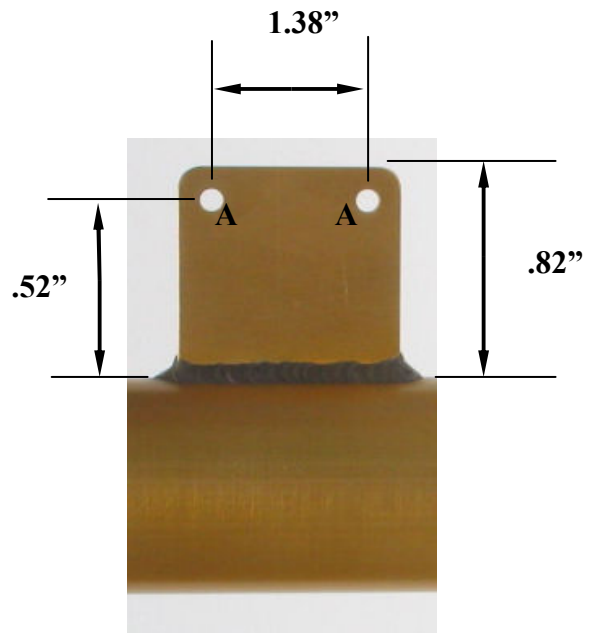
- Material – Aluminum with welded joints for strength
- Offset - 120 degrees

Thrust Rating

- 24 volts - 16 pounds of thrust max (7.27kg)
- 12 Volts – 8 pounds of thrust max (3.63kg)
- **Note # 1** - At no time shall the thrust rating of 16lbs be exceeded or damage to the thruster may occur.
- **Note #2** - For 50 volt users, do not exceed the 16 pound thrust rating or damage to the gearbox may occur!

Dimensions





A - .19" diameter hole (4.89mm)