



INNERSPACE CORPORATION

1000 EDNA PLACE, COVINA, CALIFORNIA 91724
(626) 331-0921 FAX: (626) 966-6391
www.innerspacethrusters.com

Innerspace Corporation specializes in the design and manufacture of Hydraulic & Electric Marine Thrusters whether they are custom or off the shelf.

The company has at its disposal, the most advanced manufacturing techniques in conjunction with special purpose-built equipment. This ensures that customers receive innovative products of the very highest quality at a competitive price.

The company's main guiding principle is to make customers throughout the world more successful with our know-how, technological skills and the commitment of our staff.

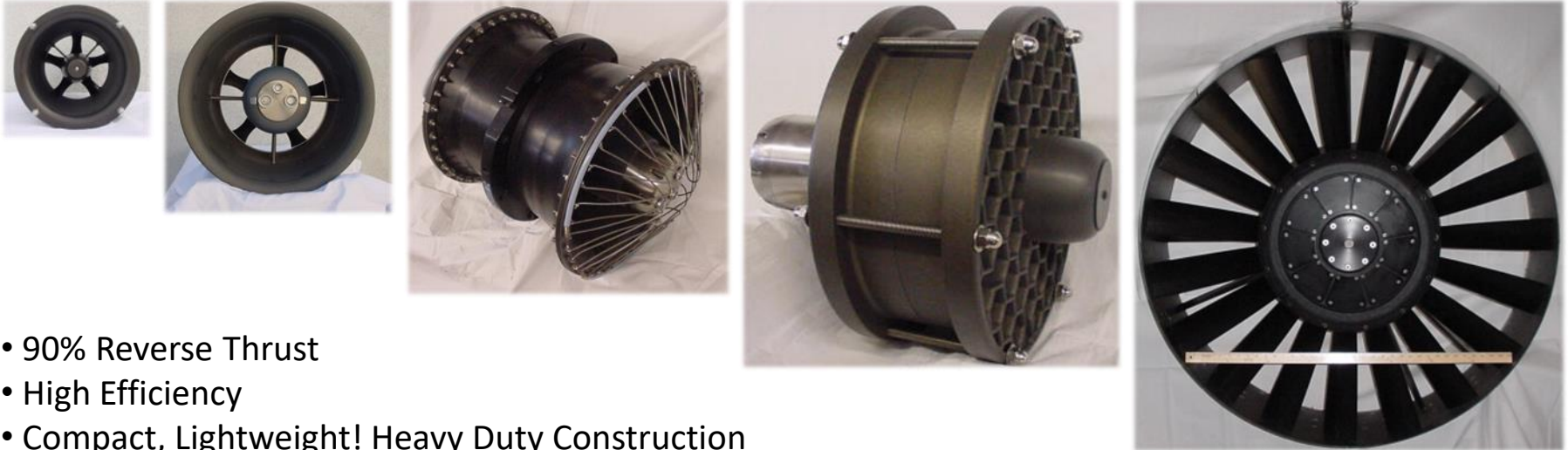
HYDRAULIC & ELECTRIC THRUSTERS

RANGING IN SIZES FROM 70 TO 8,000 lbf BOLLARD PULL



INNERSPACE HYDRAULIC THRUSTERS

Ranging from 4.6" I.D. at 70lbsf Thrust to 45" I.D. at 8,000 lbsf Thrust



- 90% Reverse Thrust
- High Efficiency
- Compact, Lightweight! Heavy Duty Construction
- Thrusters that will make a difference to your ROV's/ Submarines performance

PRECISION DESIGNED AND BUILT - COMPARE PROPELLER TIP CLEARANCES

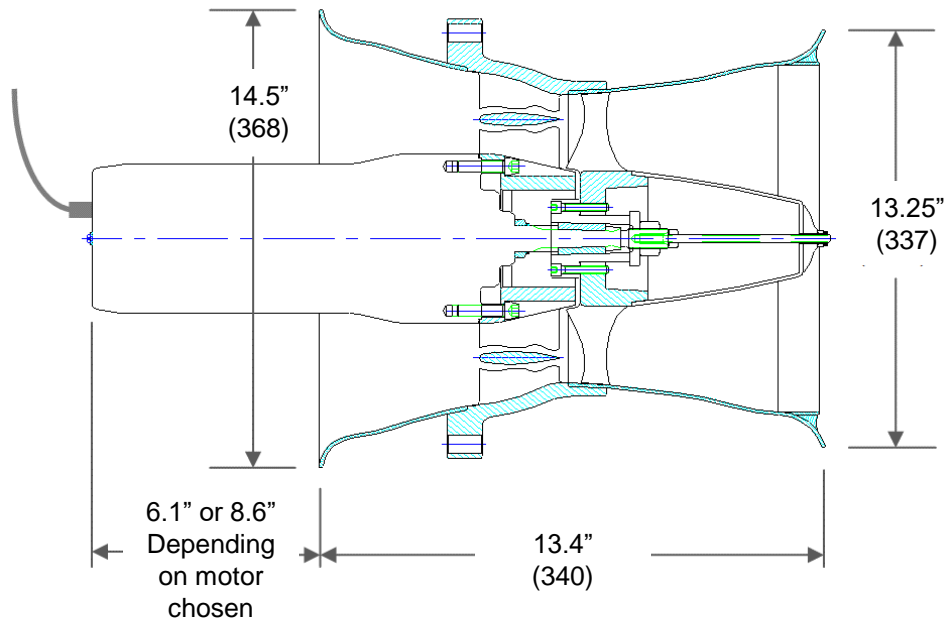
Much Faster Response Time, Smaller Diameter Propellers
of Heat Treated Anodized Aluminum.

Also available is the 1002HL Hexscreen Hydraulic Thruster.

- Hexscreens of Hydrodynamic Design Protects Divers & the Prop.
- Cancels 80% of the Prop Torque While Reclaiming Thrust by Reducing Jet Whirl. Steadier Vehicle.



MODEL 1002 ELECTRIC THRUSTERS



The venturi shape of the 1002 Thruster is ideally suited for Electric Drive because the Prop Turns Faster for the Same Power

Customized Solutions/Systems for R & D Programs or Prototype Vehicles, small or large. These thrusters can be precision matched to each application.

Independently Tested Off-The-Shelf Units

- Streamlined Brushless DC, oil filled and pressure balanced motors.
- The direct drive electric motors are driven by solid state controllers, greatly simplifying the design and increasing reliability.
- The motors are also available with resolver feedback for accurate servo control.
- 3 tier seal system that includes Silicone Carbide Face Shaft Seals.
- Thrust Range from 50 lbf to 665 lbf depending on Voltage & Motor
- Also available is the 1002HL Hexscreen Electric Thruster.



HYDRAULIC THRUSTERS



Innerspace Thrusters have been installed worldwide, with great success, on many submersibles.

ELECTRIC THRUSTERS





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Some of the many companies that use Innerspace Products:

- BP
- Helix/Canyon Offshore
- Forum Energy Technologies
- Rolls-Royce
- Harbor Branch
- WHOI
- HURL
- Lockheed Martin
- Boeing
- U.S. & Other Allied Navies
- JAMSTEC
- NOAA
- Oceaneering

