



# HYDRAULIC MARINE SYSTEMS, INC.

[www.hydraulicmarinesystems.com](http://www.hydraulicmarinesystems.com)

## Hydraulic Thruster Features

Hydraulic Marine Systems' Thrusters are designed and built to meet *and* exceed the rigorous demands of the marine construction industry. The following is a summary list of features built into these machines to make them durable enough to last for years to come.

- ✚ **Hot Dip Galvanized Frame Construction**
  - ~ C20.7 12" U - Channel Construction
  - ~ Stainless Steel Hardware
  - ~ 10 gauge Galvanized sheet metal floors
  - ~ Diamond plated aluminum platforms
- ✚ **Aluminum Fuel Tanks**
  - ~ Double baffled fuel cell
  - ~ Easy access manual drain valve
  - ~ Lockable fuel filler cap
  - ~ 1/2" thick neoprene support pads
- ✚ **Aluminum Helms and Hoods**
  - ~ Elevated helm platforms with site line approximately 9' above barge deck
  - ~ Built in hand pulls and operator safety rail
  - ~ Protective engine hood with top mounted exhaust (directed away from operator)
  - ~ Optional engine side cover panels
- ✚ **Aluminum Hydraulic Tanks**
  - ~ Reinforced, baffled tank
  - ~ Top access hatch
  - ~ Built-in site glass with temp gauge
  - ~ Patented Eaton Vickers Mobile Gate H2O filler cap - allows pressure / airflow escape while preventing moisture intrusion
  - ~ 100 mesh suction screen
- ✚ **Tier 3 Compliant Industrial Turbo Diesel Engines**
  - ~ Caterpillar C7 – 275HP
  - ~ Cummins QSCP 275HP
  - ~ Perkins 1100 Series 50 to 225HP
  - ~ Duetz TCD20 268HP
  - ~ Radiator Cooled
  - ~ Vibration Isolators
  - ~ Electronically controlled
  - ~ Air Charged
- ✚ **Heavy Duty Drive Assemblies**
  - ~ Hardened Stainless Steel 17-4 Aqua Met propeller shafts
  - ~ Stainless Steel 7/8" flange bolts
  - ~ Heavy Duty UHDPE bushings, equipped with grease fittings
  - ~ Timken bearings, housed in oil
  - ~ Cover to lower drive motors
  - ~ Manganese Bronze Propellers
  - ~ Triple epoxy coated Drive housings with 2 coats anti-defoliant
  - ~ Mechanical shaft seal with secondary quad seal
  - ~ Propeller guards or Stainless Steel Nozzles
  - ~ Tapered – Access
- ✚ **Heavy Duty Hydraulic Components**
  - ~ U.S. made Aero-quip hoses – up to 5000psi where required
  - ~ Dual filtering system with charge side and return side filtering
  - ~ Sauer-Danfoss pumps and motors
  - ~ Eaton Corp. Pumps and motors
  - ~ Hydraulic oil coolers
  - ~ Closed loop high pressure pumps and motors