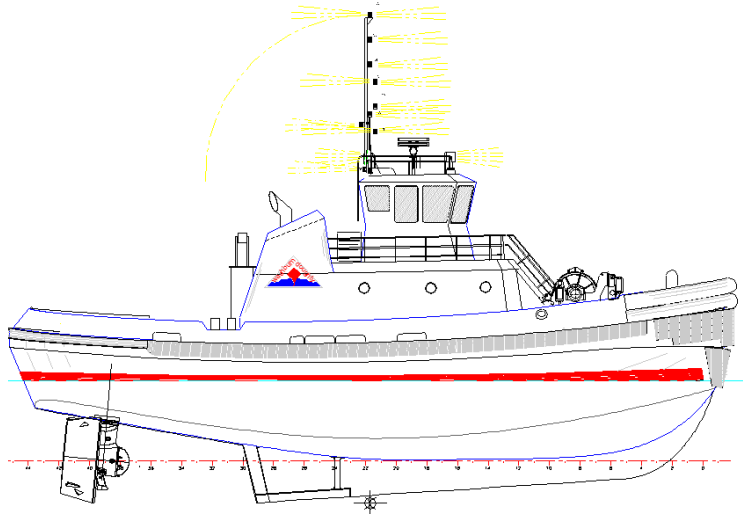


6700 HP HYBRID Z-DRIVE



**Washburn & Doughty
Associates, Inc.**

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HULLS 124 & 125—Washburn & Doughty Associates, Inc. is currently designing and building two 93' x 38' Hybrid Z Drive Tugs for Harbor Docking and Towing of Lake Charles, Louisiana. The 93' x 38' hull is a proven design with eighteen tugs in operation and four under construction. The 93' tug's wide bow provides an excellent point of contact and a "window" skeg is incorporated to maximize steering and braking forces. Off-ship firefighting meets FiFi 1 requirements related to water output.

- 93' x 38' x 15.5'
- USCG Subchapter M Harbor Assist Vessel, with Load Line
- Less than 200 GT U.S. regulatory tonnage
- Caterpillar Marine Hybrid Propulsion System
- (2) Caterpillar 3512E Main Engines, 2550HP @ 1800 rpm, T4
- (2) Caterpillar C18 Generator Sets, 565 KW
- C7.1 Generator Set, 200 KW
- MTA 628 Z Drives, 2800 mm Cu-Ni-Al bronze propellers
- Bollard Pull Ahead: 80 MT (Expected)
- Markey DEPCF-52-75HP Electric Hawser Winch (forward deck)
- Bow Fendering: (2) upper rows of cylindrical 24" fender; middle 16" soft loop; lower laminated fender
- Side and Stern Fender: 12" D-fender and double row soft loop
- EBI TC10-24-40 marine crane
- Fire Monitors (2): FFS 1200 remote controlled
- Fire Fighting Pump (1): FFS SFP 300x400CW-NCI, driven by star-board main engine
- Fuel Oil: 30,000 gallons
- Fuel Oil Overflow: 2000 gal.
- DEF: 1800 gallons
- Main Eng Lube Oil: 1,300 gal.
- Gear Oil: 250 gallons
- Hydraulic Oil: 250 gallons
- Gray Water/Treated Sewage: 3,400 gallons
- Potable Water: 4,000 gallons
- Ballast: 5,000 gallons
- Dirty Oil: 1,300 gallons
- Accommodations: 6 crew in 4 staterooms

Quality Craftsmanship in the Proud Maine Tradition