Crowley is pleased to introduce the Titan Class tugboats, Hawaii, built in 2013, and Washington, delivered in March, 2014, as part of its continued commitment to meeting the ocean towing needs of its project management customers. Designed by Crowley’s Seattle-based naval architecture and marine engineering firm, Jensen Maritime, the two 120’ x 35’ x 20’ ABS machinery class oceangoing tugboats, are powered by twin GE 8L250 EPA Tier II engines, each rated at 2679 HP/1999 KW at 900 RPM. The ABS Maltese Cross A1, towing service, machinery-classed Hawaii and Washington consume significantly less fuel and enjoy much lower maintenance costs than other equivalently powered oceangoing tugboats.

Measuring 497 international tons and 91 regulatory tons, the tugs meet all requirements for unrestricted world navigation and are equipped to allow for a scalable crew. They are fitted with a pair of Schottel FP1515 Z-drive units for superior maneuverability of tows in port and in close quarters. Living spaces are acoustically-dampened and fireproofed using the NORAC and Danacoustic systems, ensuring crew comfort and safety. To learn more, or to put these boats to work on your next project, please contact our Offshore Services team today.

TITAN CLASS TUGBOATS
Hawaii & Washington

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www.crowley.com/offshoreservices
### GENERAL SPECIFICATIONS

**Flag Registry**
- United States (U.S.)

**Overall Dimensions**
- Length: 120' • 36.576m
- Beam: 35' • 10.668m
- Depth: 21' • 6.4008m
- Loaded Draft: 20' • 6.096m
- Light Draft: 17'6" • 5.334m

**Tonnage**
- U.S. Regulatory: 91
- International: 497

**Capacities**
- Fuel: 158,000 gal.
- Potable Water: 11,000 gal.

**Main Propulsion**
- Main: (2) GE 8L250 Tier 2
- Aux.: (2) 180KW John Deere 6081A/Kohler

**Horsepower**
- Total: 5358 HP at 900 RPM

**Z-Drives Thrusters**
- (2) - Schottel FP1515; 2600mm diameter stainless steel propeller, outboard rotation

**Continuous Bollard Pull**
- ABS Certified
- Hawaii: 82.5 tons
- Washington: 82 tons

**Double Drum Tow Winch**
- JonRie Series 500; 2600' x 2-1/4"; 1800' x 2" Wire; Independent Capstan

**Headline Winch**
- JonRie Series 200; 450' x 7" Synthetic Line Reel Plus Independent Capstan

**Emergency Tow Line**
- 600' 7" Dyneema Towing Package

**Accommodations/Bunks**
- 10

**Navigation Equipment**
- Dual Radars, VHF Radios, Satellite Communications, GMDSS

**Builder**
- JT Marine Inc.

**Designers**
- Jensen Maritime
- Crescere Maritime

**Certification**
- ABS + A1, AMS Machinery Class, Towing Service, All Oceans

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*All information contained herein (including but not limited to any specifications, particulars, capacities, or capabilities) is believed to be correct, but is not guaranteed and is subject to change without notice.*