



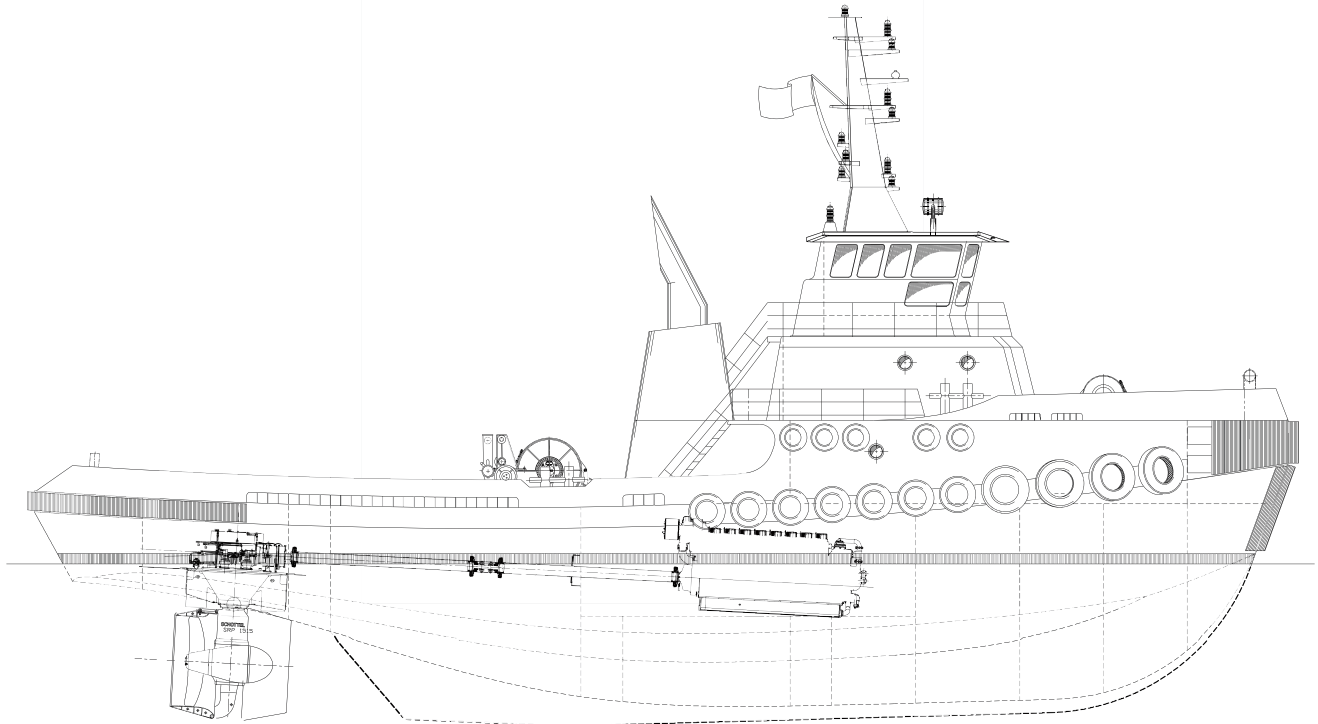
<u>Name</u>	<u>Official Number</u>	<u>Year Built</u>
Hawaii	1245560	2013
Washington	1251280	2014

TITAN CLASS TUGBOATS

Hawaii & Washington

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.



GENERAL SPECIFICATIONS

Flag Registry

United States (U.S.)

Overall Dimensions

Length120' • 36.576m
 Beam35' • 10.668m
 Depth21' • 6.4008m
 Loaded Draft . . .20' • 6.096m
 Light Draft17'6" • 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) - Schottell 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'x7" Synthetic
 Line Reel Plus Independent Capstan

Emergency Tow Line

600' 7" Dyneema Towing Package

Accommodations/Bunks

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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

*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.

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