



THS-08240

## Electric Ship Assist Tug

Crowley has developed a first of class, fully electric, ship assist tugboat. Utilizing a large battery system coupled with power saving technology enables the vessel to operate its mission in a fully electric mode producing zero emissions. The vessel has two (2) small generators for emergency use and to enable the vessel to transit longer distances at a reduced speed.

Designed with the vessel's operators and with no exhaust stacks, the tug has 360 degrees of visibility from the pilot's station allowing the operator to see all contact points without any obstruction. The tug has also been designed for future autonomous operation to increase the safety and efficiency of the operation.

The vessel was sized and designed to complete two ship assist jobs in the harbor with minimal to no charging required. The battery system is modular and can be maintained and upgraded for future battery technology improvements without any significant modifications to the vessel.

The tug is designed to ABS Class and compliant with U.S. Coast Guard Sub-Chapter M regulations.



# Vessel Specifications

## Overall Dimensions

Molded Length	82'
Length at Waterline	78' 4"
Depth	17' 9"
Design Draft	16' 5"
Beam	40'
Bollard Pull	70 short-tons (estimated)
Speed	12 knots
Gross Tonnage (US Regulatory)	<200 GRT
Bow and Stern Winch	Markey Model DEPC-48-50HP Electric Render/Recover Winch
Generators for long transit	2 x 300 kW
Fuel	9800 gal @95%

## Providing the Following:

Main Propulsion Battery	6.2 MWh
Thrusters	2x Azimuthing Thruster
Electric Motors	2 x 2100 kW Motors
Switchboards	DC Grid and AC Switchboard
Intelligent Maneuvering	Pilot Control
Autonomous Operations	Pilot Vision

Fresh Water	750 gal
Battery Room Fixed Fire Suppression	Water Mist
Berths	4