Ocean-going ATB Barge

Wind Farm Feeder Barge

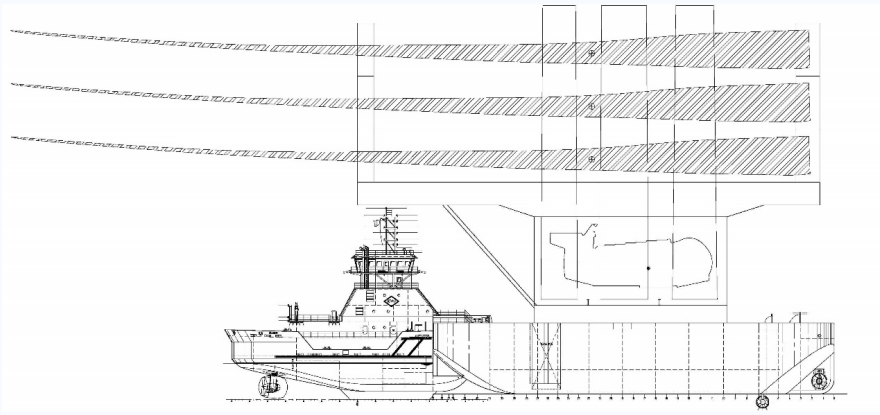
The ocean-going ATB Wind Farm Feeder Barge is intended for the transportation of offshore wind turbine components (nacelle, blades, upper tower sections) from load-out port to on-site Maersk WIV (Wind Installation Vessel). The ATB (Articulated Tug/Barge) system is comprised by the feeder barge pushed by an ocean-going tug, coupled with an Intercon connection system or equivalent.

The barge will be docked in a mating structure below the bottom of the WIV by means of the tug's system: power, dynamic positioning system and propulsion systems on the tug and barge. The cargo frame with WTG components will be elevated up to the WIV main deck via an elevator system. The ATB will be then withdrawn from the WIV while the WTG components are being installed but will stay in the vicinity of the WIV. After the installation of the wind turbine, the cargo frame will be returned to the barge and the ATB system will be released from WIV and return to port to another loading.

Figure - for illustration purposes only

Key Features:

- > 7000t Cargo Deadweight
- 900m2 Deck Space (approx. Cargo Frame Area)
- 2x 1350kW electrically-driven Azimuth thrusters (TBC)
- 1x 1400kW electrically-driven Tunnel thruster (TBC)
- Dynamic Position class DPS-2



TECHNICAL SPECIFICATIONS

General

Delivery	2026
Shipbuilder	Bollinger Shipyards, Inc.
Ship design	Guarino & Cox, LLC
IMO	TBD
Call sign	TBD
Flag	US
Class	ABS
Class notation	ABS ✠A1 Barge ATB, PAS, UWILD, DPS-2

Dimensions

Overall length (LOA)	68,0 m (223'-3")
Breadth, moulded	36,0 m (118'-0")
Depth, moulded	12,0 m (39'-5") (moulded hull to main deck amidships)
Draft, loadline	5,13 m (17'-3") (approx.)
Cargo Deadweight	7044,2t (6933 LT) (approx.)

Propulsion

Thrusters	2x 1350kW fixed-pitch, electrically-driven Azimuth thrusters (TBC) 1x 1400kW fixed-pitch, electrically-driven Tunnel thruster (TBC)
Dynamic positioning	DPS-2 (connected tug and barge)
Speed	6 knots (approx., combined barge and tug)

The electrical power for the Barge is supplied from the Tug via umbilical cable (690V, 3-Ph, 60 Hz).

Ballast System

Ballast Pumps	5x 275 m3/hr, reversible propeller pump (for the heeling ballast tanks) 2x 200 m3/hr, vertical centrifugal pump (for the heeling/trimming ballast tanks and for ballast discharge)
Transfer Pumps	2x 200m3/hr, vertical centrifugal (for seawater ballast transfer system)

Ballast Tank Capacities (approx. @ 100%)

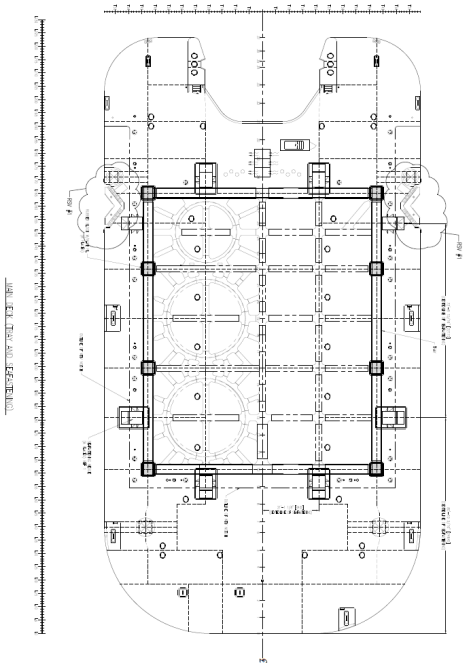
Freshwater Heeling Ballast Tanks	1180,8 m3
Heeling/Trimming Ballast Tanks	1356,3 m3
Seawater Ballast Tanks	8502,0 m3

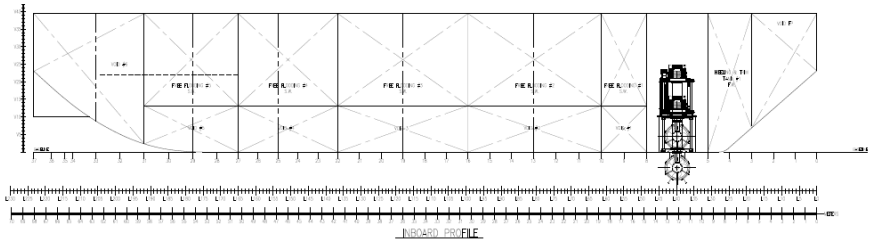
Navigation & Communication Equipment

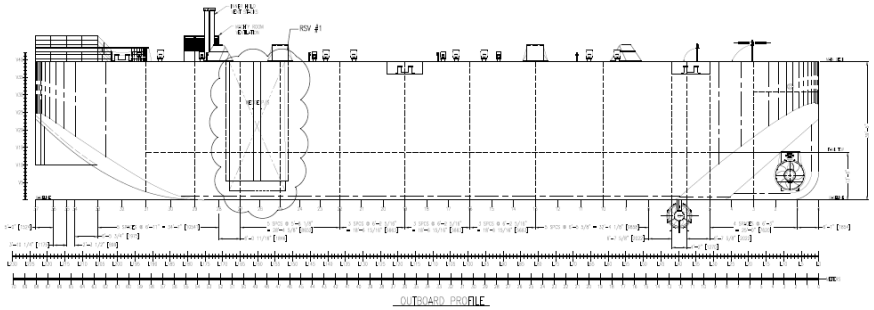
Radar	2x radar scanners
Radio	1x UHF base station for portable UHF radios

Deck Capacity / Equipment

Deck Space	approx. 900 m2 (Cargo Frame Area)
Capstan	1x electro-driven mooring capstan, 11.3t







*All figures and data believed to be correct, but not guaranteed
Update 04/2024