



Multi-Cat Support Tug

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MULTI-CAT:
Q – ADVENTURER
&
AMS SHINE

Multi-Cat: Q - ADVENTURER



Capability Overview:

- Mooring Operations: The 4-point mooring system
- Anchor Handling Operation,
- Towing Operations,
- Spud Operation,
- Push Notch Capabilities,
- A-Frame Application for launching ROV and Subsea equipment's
- FPSO Support Vessel
- Fire Fighting Vessel
- Speed : 9 knots
- Bollard Pull : 25 MT

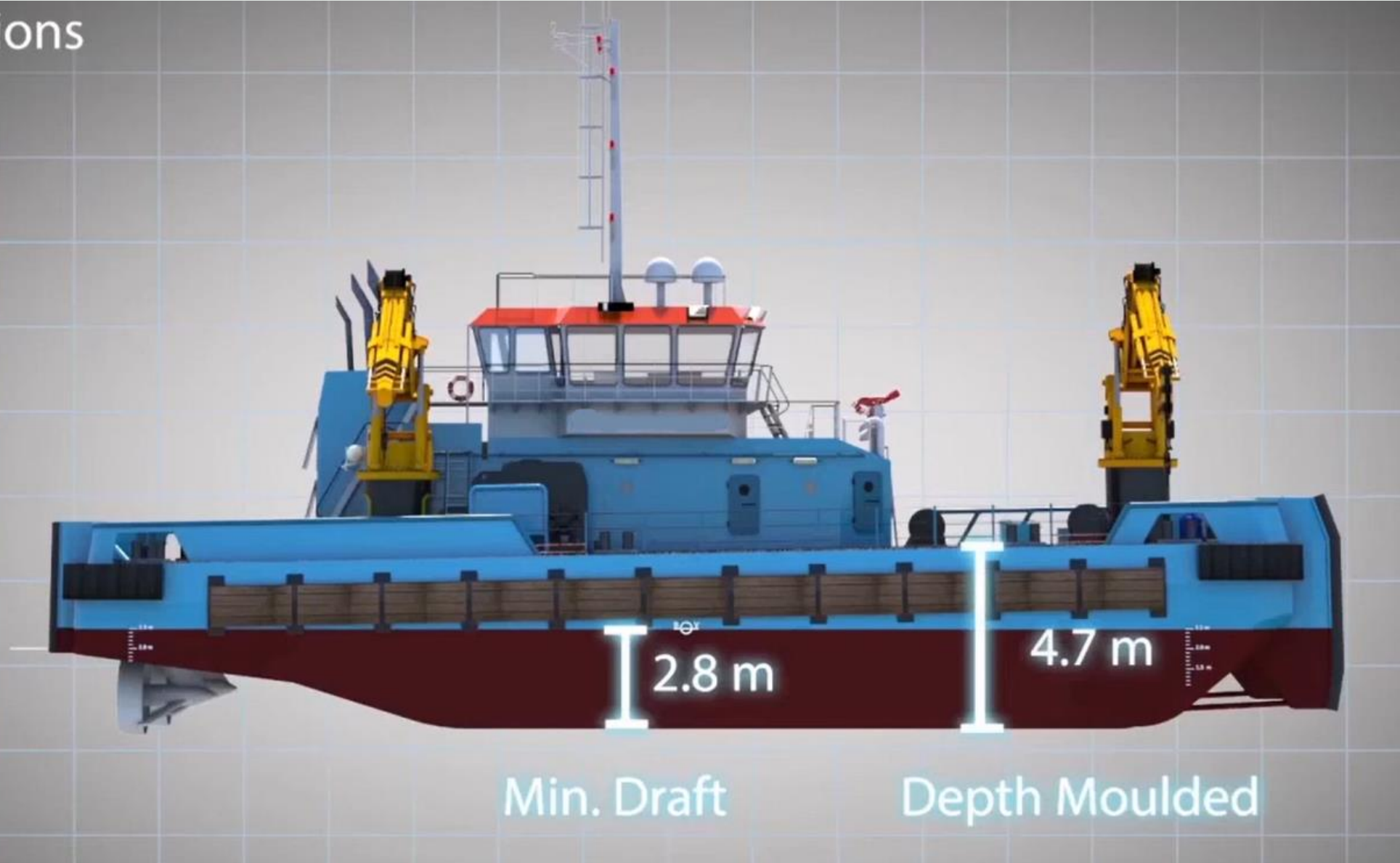
Multi-Cat: AMS SHINE



Capability Overview:

- Mooring Operations
- Anchor Handling Operation,
- Towing Operations,
- Push Notch Capabilities,
- 2 x Knuckle boom crane
- A-Frame Application for launching ROV and Subsea equipment's
- FPSO Support Vessel
- Fire Fighting Vessel

Dimensions



Anchor Handling and Mooring Operations

Its 4-point mooring system and towing capacity make it suitable for assisting in anchor handling for offshore platforms, rigs, or floating structures.

The 4-point mooring system provides the vessel with enhanced stability, enabling precise positioning in a variety of offshore operations, including anchor handling, dredging support, and cable laying.



SPM & Towing Operations

The vessel's towing winch with a 30T BP makes it suitable for towing smaller barges, workboats, and other structures required during marine construction and support services.

Push Notch Capabilities:

The push notches on both the forward and stern allow the vessel to assist in manoeuvring and positioning other barges or floating structures, enhancing its versatility in barge transportation and support operations.



Subsea Inspection and Maintenance

The A-Frame and spud leg features make it suitable for deploying ROVs or other equipment for underwater inspection and maintenance, supporting offshore platforms and pipelines.

- Stabilization and Stationary Operations,
- Deployment and Recovery of ROVs/AUVs:
- Diver Support and Safety
- Inspection and Monitoring
- Mooring Assistance
- Transport and Deployment of Subsea Equipment
- Pipeline and Cable Repair Support
- Deployment of Mattress on Subsea Pipeline
- Flexible Operations Across Shallow and Coastal Waters



Cable Laying and Maintenance

Multi-cat vessels are commonly used in cable laying and maintenance operations for offshore wind farms or communication infrastructure projects. Its A-Frame can assist in deploying and retrieving cable-laying equipment.



Offshore Support operation



Firefighting Capability

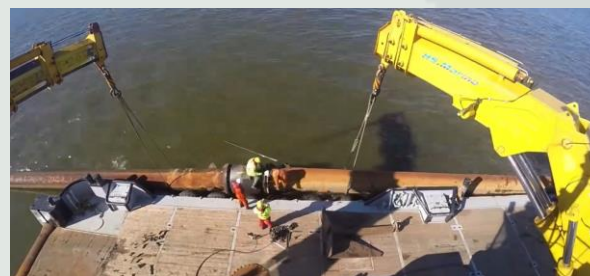


Personnel Transfer

Dredging Support and Coastal Reclamation Projects

The vessel's spuds and A-Frame make it an ideal platform for dredging support, sand excavation, and coastal reclamation, particularly in shallow waters where stabilization is crucial.

- Anchor Handling and Positioning Dredger
- Spud Stabilization for Dredger Support
- Sediment Transportation and Deployment
- Pipeline Installation and Maintenance
- Shallow Water Operations
- Support for Excavation and Trenching
- Survey and Monitoring Assistance
- Material Handling and Crane Operations
- Mooring and Floating Pipeline Maintenance
- Emergency Response and Support Services



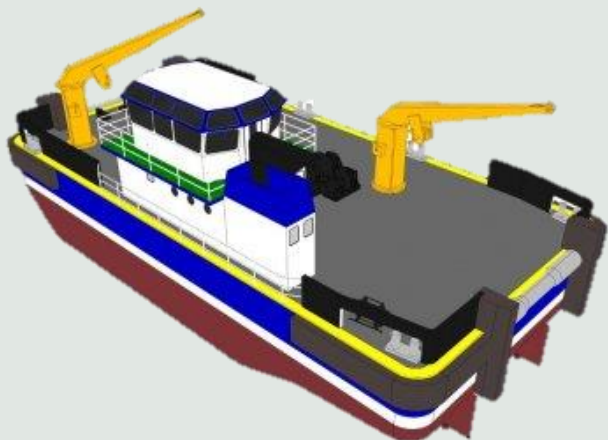
Barge Transport and Manoeuvring

Given its push notch capabilities and towing capacity, the vessel is ideal for pushing and manoeuvring smaller barges or floating platforms during coastal and nearshore construction projects.

- Efficient Barge Pushing and Towing
- Shallow Draft Advantage
- Precise Manoeuvring with Four-Point Mooring System
- Versatility in Handling Different Barge Types
- Navigating Narrow and Confined Spaces
- Assisting with Barge Anchoring and Securing
- Support for Floating Crane and Construction Barges
- Adaptability for Varied River Conditions
- Rapid Mobilization and Demobilization
- Stability During Cargo Transfer Operations



Benefits of Multi-cat for Offshore EPC Projects



Multi-functionality:

- Multi-cat vessels can perform a wide range of operations such as towing, anchor handling, barge transportation, and mooring support, reducing the need for multiple specialized vessels and optimizing project resources.



Cost Efficiency:

- By combining several capabilities into one vessel, Multi-cats help minimize mobilization and demobilization costs, offering an economical alternative for various offshore construction and maintenance tasks.



Enhanced Accessibility:

- The shallow draft design of Multi-cats allows them to access confined and shallow areas, such as river mouths and coastal zones, which are often inaccessible to larger vessels. This is particularly valuable for offshore projects involving shallow water installations or coastal infrastructure.



Improved Project Control and Safety:

- Equipped with advanced mooring systems and spud legs for stability, Multi-cat vessels provide precise positioning and control, which are critical for executing complex EPC activities such as subsea installations, dredging support, and piling operations, ensuring a safer work environment.



Rapid Mobilization and Versatility:

- Multi-cats can be rapidly mobilized to different offshore project sites, making them ideal for dynamic and multi-phase EPC projects. Their versatility supports continuous operations without significant downtime, enhancing overall project efficiency.



Support for Subsea Operations:

- With features such as A-frames and cranes, Multi-cat vessels are capable of supporting subsea activities like ROV deployment, cable laying, and underwater inspections, providing essential support for the installation and maintenance of offshore structures.

Thank You

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