

M/V ACBL Mariner Information Sheet

The **M/V ACBL Mariner** embodies ACBL's vision as the Trusted Leader in Marine Transportation. Built with a focus on innovation and integrity, this flagship vessel is designed to exceed industry standards in power, efficiency and reliability.

Vessel Features

Unmatched Power and Size

The **M/V ACBL Mariner** is the most powerful and capable towboat ever delivered to the U.S. inland river system.

- **11,000 Horsepower Vessel**
- **Dual Engines:** Equipped with only **two Caterpillar C280 engines**, unlike other vessels of similar horsepower that require three engines.
- **Largest Propellers:** Features **124-inch diameter propellers**, the largest in the industry.

Innovative Engineering

- **Hydrodynamic Hull Design:** A new leading-edge hull design enhances efficiency beyond typical riverboats.
- **Dual Steering and Flanking Rudders:** Equipped with two steering and two flanking rudders for better control and performance.
- **Modular Construction:** Built locally by **C&C Marine** using a modular process for precision and efficiency.
- **Advanced Propulsion System:** Combines high-efficiency engines with the largest underwater drivetrain to deliver unparalleled horsepower to the water.

Operational Efficiency

- **Fuel Efficiency:** Maximizes gallons per hour and per ton-mile, leading to lower operational costs. This vessel increases efficiency by approximately 20 percent compared to smaller vessels ensuring barge transportation.
- **Reduced Operational Costs:** Two-engine setup reduces fuel consumption and maintenance costs compared to three-engine vessels.
- **Ballast Capability:** Can adjust operating draft by up to **18 inches** to navigate shallow waters during low river levels.

Cargo Capacity

- **Barge Pushing Capacity:** Maximum tow of 64 barges, covering an area of 9 acres in surface area—larger than the biggest aircraft carrier.
- **Cargo Tonnage:** Can transport more than **75,000 tons** of cargo, making it one of the most capable domestic vessels in the industry.

Crew Comfort and Safety

- **Floating House on Springs:** A **spring-loaded superstructure** reduces vibration, enhancing crew comfort and rest.
- **Spacious Living Quarters:** Efficient use of space with modern amenities; only one room features a double bunk for extra crew or guests.
- **Enhanced Crew Amenities:** Designed to mimic the comforts of home to attract and retain top talent.

Advanced Technology and Monitoring

- **State-of-the-Art Navigation:** Equipped with the latest navigation equipment, including **two radars** and a superior external lighting system.
- **Real-Time Monitoring Systems:**
 - **Engine Room Monitoring:** Advanced diagnostics for preventive maintenance.
 - **Fire Suppression System:** Zoned monitoring throughout the vessel for enhanced safety.
- **Preventive Maintenance Capability:** Technology enables identification of potential issues before they occur, reducing downtime and increasing reliability.

Dimensions and Capacities

- **Length: 200 feet**
- **Width: 50 feet**
- **Operating Draft: 11 feet**, adjustable with ballast capabilities.
- **Fuel Capacity: 135,000 gallons**
- **Winches:** Equipped with **eight 65-ton winches**
- **Generators:** Contains **three generators** for operational efficiency.

Significance

- **Industry Leader:** Sets a new standard for efficiency and productivity in marine transportation.
- **Environmental Efficiency:** Reduced fuel consumption per ton-mile lowers environmental impact.
- **Crew Comfort:** Emphasizes the importance of crew comfort and safety, leading the industry in accommodations.
- **Technological Advancement:** Incorporates cutting-edge technology for operations, navigation, and maintenance.

Honoring ACBL's Mariners

The ***M/V ACBL Mariner*** is named in honor of the Mariners, who are the true heartbeat of ACBL. This vessel stands as a testament to their unwavering dedication, skill, and spirit, which drives the company's success and leadership in marine transportation.

ACBL Facts

- Founded in 1915
- Based in Jeffersonville, IN
- We move ~50 million tons of cargo a year
- Operate ~130 towboats and 3,500 barges
- We move dry and liquid cargo
- 2,000 Team Members
- 14 locations; 4 locations in Louisiana

Barge Industry Facts

- Did You Know? A towboat and a barge aren't the same thing! Towboats are the powerful vessels that push barges, which carry cargo up and down our waterways. Each barge can hold an impressive average of 1,500 tons of cargo.
- 12,000 miles of commercially navigable waterways

- Louisiana's inland waterway industry is the second-largest in the nation, generating over 143,000 jobs and contributing \$15.3B annually to the Gross State Product (GSP).
- Move 530 million tons of cargo each year including 60% of grain exports