



929 Park Avenue  
Pittsburgh, PA 15234  
800-662-5010  
412-663-5556  
sales@ge-iec.com

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## BARGE HANDLING

Because a significant number of IEC bulk material handling systems are built for port and river side installations, it is only logical that a major percentage of our design and engineering effort for these systems is centered around developing more efficient ways of handling and controlling barges and barge traffic. At IEC, we've earned recognition throughout the industry for the design and construction of new and modified dock barges, as well as barge support products and equipment that help increase system efficiency, economy and productivity through better control, handling

## PRODUCTS / SYSTEMS

Designed to increase efficiency by eliminating delays, the **IEC Shuttle Barge<sup>SM</sup>** continually alternates empty cargo barges with loaded barges. By accommodating two barges at a time on shuttle, and subsequently replacing empty barges with full barges from the fleet, these shuttles reduce switch-out time delays and increase hourly tonnage. Time studies have proven these versatile units can reduce offloading times by as much as 40%.



**IEC Floating Dock Barges** are custom designed to accommodate specific barge and material needs, whether they include a basic barge anchorage dock, a cost-effective operational center for your barge handling system, or a safe, solid platform for material handling support systems and equipment.



The **IEC Continuous Breasting Cable System<sup>SM</sup>** is designed to control cargo barges during critical loading and unloading operations by restraining movement away from the dock due to wind, water flow and inertial forces created by the barge haul system. This system offers positive control with fewer tie-offs for improved operator safety.



The Interstate **Barge Haul System** is available in either a basic control system, which allows manual barge spotting, or an advanced design which features automatic control available with our Vector driven winch package. While both control systems allow barges to be spotted with a single tie-off, the automatic system features a state-of-the-art winch design that is more compact, and has fewer parts for reduced maintenance and longer service life.

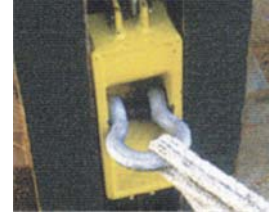


Our **Vector Automatic Control Package** is designed to combine greater convenience with precision control of the IEC barge haul system. This system can be activated from either the crane operator's cab, or the remote operator's location. Both the cab-mounted and operator room control panels feature the latest design technology, including an HMI touch screen panel, today's most advanced system for

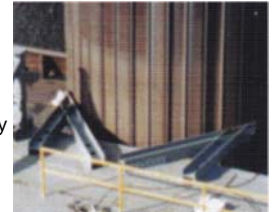


equipment activation and control.

The **IEC Single-Tie Floating Mooring Ring<sup>SM</sup>** combines the strength and security of stationary mooring rings with the safety and convenience of a unique single-tie floating assembly that automatically adjusts to river level changes. The single-tie feature of this system also helps protect dockside personnel from the potential hazards of repeated tie-offs, so they can concentrate on more productive barge handling operations without interruption.



Our specially designed **Mooring Guide Systems** are engineered to reduce tie-offs by securing floating dock barges between river cells or dolphins with heavy-duty steel guide arms that are secured to the barge deck, and automatically adjust to river levels.



The **IEC Sliding Sheave Assembly<sup>SM</sup>** is designed to automatically adjust the haul rope elevation to accommodate changing river levels, and maintain a safe fleet angle during cargo barge loading and unloading operations. Electrically controlled motor drives are located at the top of each wheeled carriage assembly track to provide vertical travel for the sheave according to customer requirements.



In addition, IEC's high performance **Swivel and Fairlead Sheave Assemblies** are custom designed to the highest standards of quality, making them ideally suited for heavy-duty, high-cycle, hard-working wire rope hauling or lifting applications, including barge-haul systems, rail-car pullers, and a variety of other hoisting and towing applications.



Interstate Equipment Corporation 929 Park Avenue Pittsburgh, PA 15234 (800) 562-5010 [sales@go-iec.com](mailto:sales@go-iec.com)

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