



## **Machinery-on-Trolley Crane Design Port of Singapore**

Liftech worked closely with MHI engineers to optimize the crane weight and structural performance of both the main crane structure and the trolley. The resulting structural design meets all of PSA's stringent deflection requirements.

The boom features a trapezoidal monogirder design with a single forestay. In addition, an assist link scheme (patent pending), developed by MHI and Liftech, controls the deflection of the boom.

Liftech assisted with the design of the trolley and review of mechanical concepts.

Reference:  
Mitsubishi Heavy Industries, Ltd.  
Hiroshima, Japan