

Combined Gantry/Mobile Crane Simulator

DATA SHEET



The Quay Skills Crane Simulation System combines two separate modes of operation to provide simulator based training programmes on both a Gantry Crane or a Mobile Crane (Luffing jib).

The Gantry Crane simulation is based upon a Liebherr P 125 L-Super Container Crane Carrier.

The Mobile Crane simulation replicates a generic, level-luffing, rail mounted, jib crane, loosely based upon the Liebherr LHM Mobile Harbour Crane.

As each system is built to individual customer specification, we also offer the flexibility to customise our standard specification to simulate different equipment in operation in your port environment.

Cost Savings With Simulated Training

Significant cost savings can be achieved through the use of simulators, especially in the ports environment, which requires operatives to deal with high value, increasingly complex and potentially dangerous operations.

Numerous independent studies have already proven the benefits of integrating simulators into a training regime. When combined with the low cost of the Quay Skills range of simulators, payback can typically be measured in months rather than years, achieved through a combination of savings including:

- Reduced fuel costs
- Reduction in accident costs
- Reduction in training damage to live equipment
- Less training time required on production equipment
- Improved productivity and operator confidence on exposure to live equipment
- Reduced maintenance costs on live equipment through coaching of best practice
- Reduction in training costs through accelerated learning
- Reduced recruitment costs through early aptitude assessment



Hardware Spec

A custom built superstructure formed from high quality Bosch Rexroth aluminium extrusion supports a set of back-projection display screens and user control system. Four ultra short throw projectors providing forward, left, right and lower views, give a highly compact overall layout. A touch screen monitor provides an interface to scenario selection and other controls. The user interacts via a set of physical controls that mimic the main functionality of the relevant crane system.

Physical dimensions 4m x 4m x 3.8m

4 x Hitachi CP-A100 ultra-short throw projectors

Dell XPS 720 main processor unit

5.1 surround sound system

Dell Inspiron 530 auxiliary control unit

Protouch 19" touch screen interface

Industrial quality operator seat

Multi-function joysticks

Custom control units

User Controls

Individual build means that you can specify which controls/indicators you wish to incorporate. The following list indicates typical items:

Twistlocks indicator

Autopark button

Flippers buttons

List/ Trim/ Skew joystick

Luffing/ Slewing joystick

Emergency stop button

Horn button

Overload warning light

Rail clamps up signal light

Gantry bypass

EMS panel

Current load indicator

Wind speed indicator

Flipper indicators

Trolley/ Twistlocks joystick

Trolley parked signal lamp

Spreader 20-30-40ft

Hoist/ Long travel joystick

Active deposit points

Emergency stop light

Overload signal light

Crane on signal light

Wind warning signal light

Electrical fault signal light

Trolley position indicator

Spreader height indicator

Twistlocks status indicator

Spreader status indicator

Operation

The Quay Skills range of dockside simulators is designed with ease of use and maintainability in mind. Installed as a turnkey solution, the simulators need no specialist buildings or dedicated support. Your existing IT technician will be able to keep the system running on a day to day basis and your maintenance agreement will ensure a rapid response if unexpected problems do arise.

Customisation

Our Quay Skills simulators come with a set of ready-made scenarios to get you up and running straight away. The ability to vary these scenarios, customise them to your own workplace or modify the equipment behaviours is readily achievable in consultation with our Customisation Service.

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TRAINING SIMULATORS



Supported by



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