

Combined Tug And Forklift Truck Simulator

DATA SHEET



The Quay Skills Tug and Forklift Truck Simulation System combines two separate modes of operation to provide simulator based training on both a Tugmaster (IMV) and a Forklift truck (FLT).

The tug simulation is based upon a MAFI MT30 Terminal Tractor operating at a container terminal or loading and unloading a RO-RO vessel.

The forklift simulation is of a generic counterbalance FLT.

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 work environment.

Cost Savings With Simulated Training

Significant cost savings can be achieved through the use of simulators, especially in ports and warehousing environments, which require 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 individual vehicle systems.

Physical dimensions 4m x 4m x 2.2m

3 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

Switchable 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:

Keyswitch

Steering wheel

Parking brake

Hazard warning lights signal lamp

Dipped/main beam signal lamp

Flashing beacon signal lamp

Coil pre-heat rocker switch

Level reduction for rear axle

5th wheel release switches

5th wheel, raise/lower joystick

Differential lock switch

Seat rotate switch

Air pressure gauge

Connect /disconnect air hoses button

Mast tilt joystick

Brake

Accelerator

Isolator switch

Indicators signal lamp

Battery warning signal lamp

Pre-heat coil signal lamp

Front/rear wipers rocker switches

Lower/raise trailer legs button

5th wheel locked indicator lamps

Four wheel drive switch

Gear selector

Rev counter

Reversing alarm

Lower raise mast joystick

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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