The K-Sim Engine MTU V12 WaterJet H22 model simulates a fast catamaran with two high-speed, turbocharged 12 cylinder MTU diesels, each connected to a steerable KaMeWa waterjet. Maximum speed of the vessel is 35 knots. Simulated control panels on the bridge include panels for craft propulsion, steering control and engine monitoring.

The propulsion section is typical of a KaMeWa waterjet installation with thrust and steering control levers, steering nozzle and reversing bucket position indicators. The engine section includes indication of monitored signals and safety control functions. A Ship System Overview Display shows all available ship systems and makes navigation to different subsystem displays easy. 27 mimic displays are available for the student.

Training objectives
The K-Sim Engine MTU V12 WaterJet H22 model is designed to be a valuable tool in the basic and advanced training of marine engineers. The training objectives are to train junior engineers in basic engine room operations, senior engineers in emergency operations and trouble shooting, and to train senior and chief engineers in optimal operation, fuel economy and energy conservation. This is achieved by controlled training, leading to better understanding of the total plant operation, as a result of realistic simulation of a real engine room.

Compliant with industry requirements
Kongsberg Digital simulator models exceed requirements in the STCW convention, Regulation 1/12 and fulfill DNV GL's standard DNVGL-ST-0033 for Maritime Simulator Systems.
### MODEL MAIN SPECIFICATIONS

High fidelity engine room systems include:

- Main SW system
- FO Systems
- FO purifier systems
- Water Jet systems, incl. Main reduction gear & Lube oil system
- Compressed air systems Control air and start air
- Bilge water systems, incl. Bilge water separator
- Electric power plant Incl. Diesel generators
- LO Systems
- ME SW systems
- Me. local control panels
- Turbocharger systems
- Jacket Water Systems
- ME safety system, incl. shut down and slow down.
- WI local control panels
- Bridge-propulsion control
- Bridge-prop. monitoring
- Bridge-Engine monitoring

Note: Specifications subject to change without any further notice.

### MODEL FEATURES & DETAILS

- **Type**: MTU V12
- **Main Engine speed**: 1800 RPM
- **Main Engine power**: 300 kW
- **No of turbochargers**: 6 per engine
- **Water Jet type**: KaMeWa 63
- **Impeller diameter**: 0.63 meters
- **Impeller speed**: 1000 RPM
- **Impeller thrust**: 85000 N

- **Ship type**: Catamaran
- **Vessel length overal**: 34.3 m
- **Breadth moulded**: 9.2 m
- **Draught loaded**: 1.5 m
- **Ship light-weight**: 100 tonnes
- **Cruising Speed**: 34 knots