

K-SIM ENGINE



KONGSBERG



K-SIM ENGINE MAK 8M43C CONTAINER FEEDER

The K-Sim Engine MaK Container M11 model is based on a medium speed Engine Room configuration from a modern container feeder with one MaK 8M43C engine connected to a controllable pitch propeller.

Kongsberg Engine Room Simulators

Our engine room simulators provide realistic, hands-on experience in a ship-like environment. Systems include vital components, such as main engine remote control, engine-room local panels, controllers, engine telegraph, alarm systems, power supply switchboards, engine sounds etc.

We have an extensive model library of different propulsion plants and engines types, certified by the engine manufacturer as exact simulations. Our library includes models of diesel engines such as MAN B&W, Wärtsilä, Sulzer, Pielstick, MaK and MTU as well as gas turbine, diesel electric, water jet and steam propulsion plants.

Our systems can be easily networked with our full ship's bridge simulator for total ship training.

The K-Sim Engine MAK M43C Container M11 model

The model has 1x8000kW main engine, type Mak 8M43C and 1x500kw bow thruster. The control and automation systems include sophisticated power management, pump control and propulsion control. The main object for the simulator is to cover

the operation and system understanding of the configuration one (1) medium speed main engine geared down and connected to a controllable pitch propeller including shaft generator, with electrical transmission to a switch board.

The electrical power plant includes, in addition to the shaft generator, 2 diesel generators and one emergency generator. Control room operator panels as well as bridge and steering panels are included. In addition to the graphical process mimics representing the engine room systems, a Walkthrough Virtual Engine Room application is included.

The VR application enable the students to walk around in the engine room in a virtual world and operate the machinery systems locally.

Fulfilling the requirements

The K-Sim Engine Offshore MAK M11 Container Feeder simulator model exceeds requirements in the STCW convention, Regulation 1/12 and fulfills DNV GL's standard DNVGL-ST-033:2014-08 Maritime Simulator Systems.

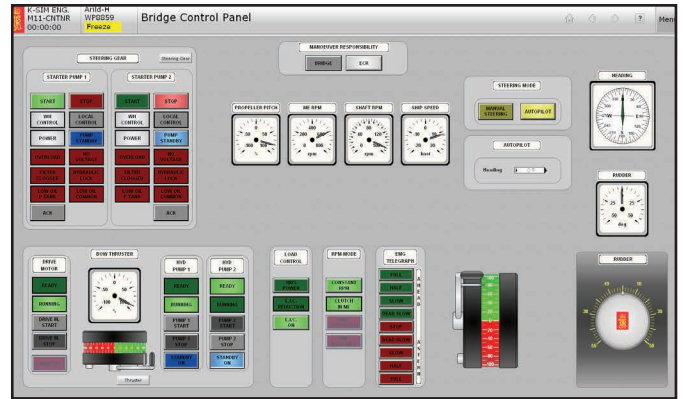
MODEL FEATURES & DETAILS

Main Propulsion Data

Main Engines	1 x Mak medium speed
Propulsion Type	1 x CPP
Bow thruster.	1 x 500 kW
Max speed	17 knots
SFOC	178g/kWh

Vessel's main particulars

Length overall	134.4 m
Breadth moulded	22.5 m
Draught	8.7 m
DWT	11200 tons
Speed	17.5 knots



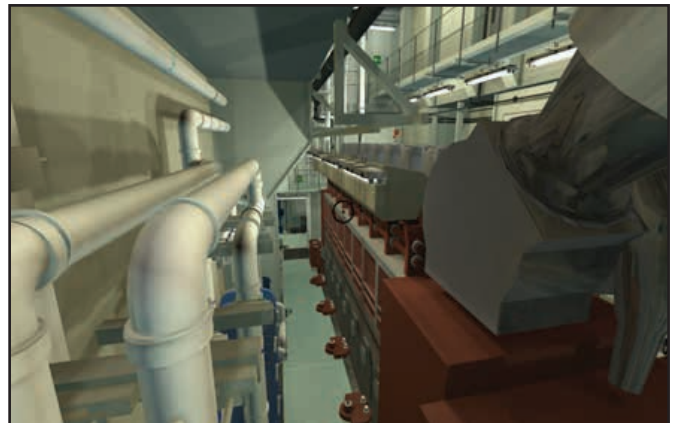
Bridge Control Panel

TECHNICAL SPECIFICATIONS

High fidelity engine room systems include:

- Propulsion Plant:
 - 1 MAK medium speed main engine
- Gear system
 - Single shaft CPP
- Integrated Automation System
- Alarm and Safety Warning System
- Control and Power Management System
- Propulsion Control System
- Seawater Auxiliary Cooling System
- Exhaust System
- Lubrication Oil Filling, Transfer and Purification Systems
- Emergency Generator
- Diesel Generator Sets and Support Systems
- Shaft Generator and Support Systems
- Electric Power Supply Conversion Equipment
- Switchboards, Distribution, and Panels for Electric Power and Lighting
- Refrigeration System
- Fire main (Seawater System)
- Ballast system
- Freshwater System/Freshwater Production System
- Potable Water System
- Freshwater Auxiliary Cooling Systems
- Fuel Systems including Separator systems

- Compressed Air Systems
- Steam Plant incl. oil fired boiler
- Bilge separator system
- Bow Thruster
- Steering Gear
- Fire Detection System
- Water Mist System
- Deck Machinery
- Sewage Treatment



3-D Engine Room Walk-through

Specifications subject to change without any further notice.

K-Sim Engine - Mak M43C Container Feeder M11
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