

K-SIM ENGINE



KONGSBERG



K-SIM ENGINE MAK M453C NAVY M11

The K-Sim Engine MaK M453C Navy M11 simulates a logistic support vessel with a single installation Krupp MaK M453C medium speed (four stroke) diesel engine connected to CP propeller. The main engine models respond dynamically to variations in operation and conditions of the ship model and the ship models have mutual responses to the main engine models.

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 M453C Navy M11 model

The electrical power plant includes two diesel generators, one shaft generator and an emergency generator.

The steam plant includes oil fired boiler and auxiliary boiler.

Control room operator station and panels as well as bridge and steering panels are included.

Fulfilling the requirements

The K-Sim Engine MaK M453C Navy M11 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.

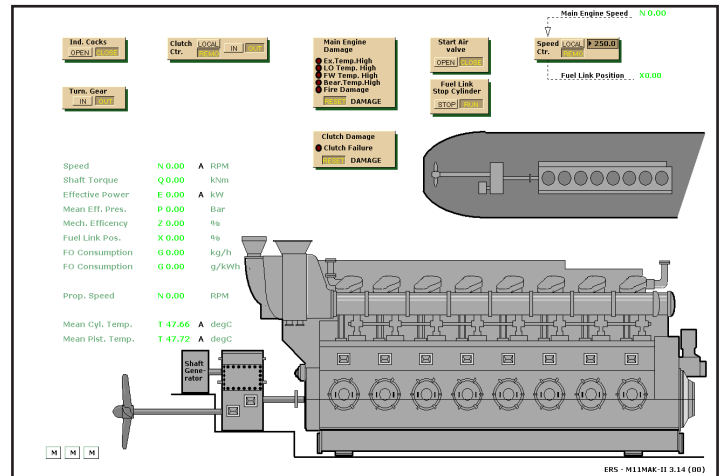
MODEL FEATURES & DETAILS

Main Engine Data

Type	Krupp MaK 8M453C
Cylinder bore	320 mm
Piston stroke	420 mm
Number of cylinders	8
Number of air coolers	1
No of turbochargers	1
Continuous service rating	2650 kW
Corresponding engine speed	600 RPM
Mean effective pressure	19,7 bar
Specific fuel oil consumption	178 g/kWh
Reduction gear	0.24:4
Propeller diameter	2,60 m
Propeller speed	150 RPM

Vessel's Main Particulars

Length overall	92.00 m
Length between p.	84.00 m
Dead-weight	940 tons
Speed	26 knots

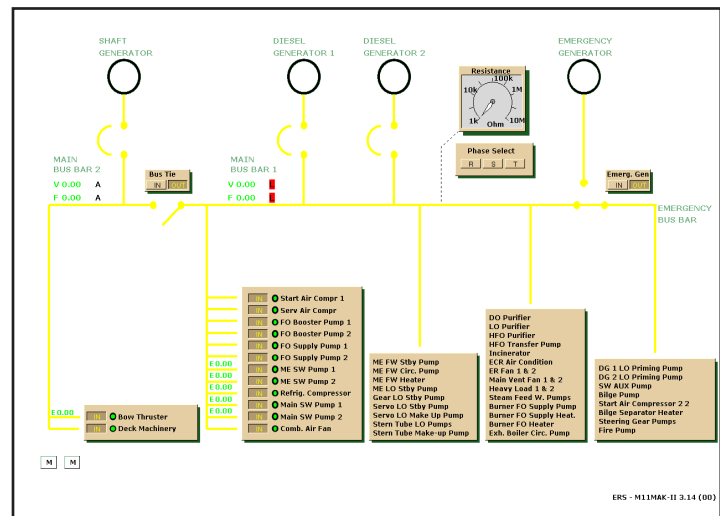


TECHNICAL SPECIFICATIONS

High fidelity engine room systems are included:

- Fuel oil system
Incl. bunker, settling, service tanks and purifiers
- Fuel oil high pressure system
Incl. viscosity control
- Main engine lubrication oil system
Incl. purifier
- Main sea water system
Incl. ballast tanks
- Main engine fresh water system
Incl. fresh water generator
- Main engine turbocharger system
- Main engine sea water system
- Propeller gear oil system
Incl. shaft generator
- Propeller servo LO system
- Stern tube system
- Compressed air system
Incl. 2 start air and one service air compressor
- Bilge wells and bilge water separator
- Refrigeration system
- Electric power plant
Incl. two diesel generators, one shaft generator and power management

- Steam system
Incl. exhaust and oil fired boiler
- Remote control panels
Incl. panels for bridge, ECR and at engine side.



Electrical Power Plant

Specifications subject to change without any further notice.

KONGSBERG MARITIME

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