

K-SIM ENGINE



KONGSBERG



K-SIM ENGINE OFFSHORE MAK M42 AHTS

The K-Sim Engine Offshore MAK M42 AHTS model is based on a medium speed Engine Room configuration from a modern Anchor Handler, Tug & Supply vessel (AHTS) carrier with 4 Krupp Mak medium speed engines and 2 x controllable pitch in fixed kort nozzles.

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.

Model Description

The model has 1 x 2040 Bhp tunnel & 1 x 1770 Bhp CP Retractable Azimuth as the forward thrusters and 2 x 1200 BHP tunnel Stern thrusters. 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 4 medium speed main engines geared down to two propellers including 4 shaft generators with Electrical transmission to a switch board. Control room operator panels as well as bridge and steering panels are included.

Fulfilling the requirements

The K-Sim Engine Offshore MAK M42 AHTS 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	4 x Krupp Mak medium speed
Propulsion Type	2 x CPP
Diesel Generators	2 x 1070 KW diesel generators
Shaft Generators	4 x 2600 KW shaft generators
Fwd thrusters.	1 x Tunnel and 1 x Azimuth
Aft thrusters	2 x Tunnel
Dynamic position system	DP 2
Max speed/Consumption	16,9 kts at 90mts/24 hrs 10 kts at 24mts/24 hrs

Vessel's main particulars

Length overall	90,3 m
Breadth moulded	23.0 m
Draught	9.5 m
Tonnage	6536 gt
Speed	17 knots



MODEL MAIN SPECIFICATIONS

The following simulated models are included:

- Propulsion Plant:

4 MAK medium speed main engines

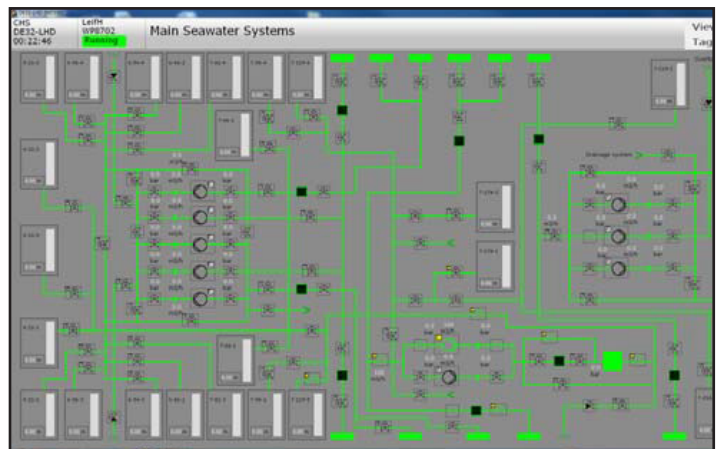
- Gear system

Twin shafts 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 Generators and Support Systems
- Electric Power Supply Conversion Equipment
- Switchboards, Distribution, and Panels for Electric Power and Lighting
- Refrigeration System
- Fire alarm and Fire Fighting systems (machinery spaces)
- Fire main and Flushing (Seawater system)
- Sprinkler System (machinery spaces)
- Ballast system

- Freshwater System/Freshwater Production System
- Potable Water System
- Freshwater Auxiliary Cooling Systems
- Fuel Systems
- Compressed Air Systems
- Bow Thrusters
- Stern Thrusters



Detailed Process Mimics

Specifications subject to change without any further notice.

KONGSBERG MARITIME

Switchboard: +47 815 73 700

Global support 24/7 +47 33 03 24 07

E-mail sales: km.sales@km.kongsberg.com

E-mail support: km.support@kongsberg.com

km.kongsberg.com



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