K-Sim® Engine

KONGSBERG

KONGSBERG Engine Room Simulators

K-Sim Engine Diesel Electric Drillship DE66

T The K-Sim Engine Diesel Electric Drillship DE66 model is based on a Dynamic Positioning (DP) class diesel-electric drillship. The Model includes MAN 16V32/40 diesel engines that generate power for the high-voltage switchboards. The propulsion system includes six Azimuth thrusters.

The main object of the simulator is to cover the understanding and operation of sophisticated propulsion machinery. The simulator includes 3 fully independent engine rooms with all relevant systems and controls to enable realistic training.

Training objectives

The K-Sim Engine Drillship DE66 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 a better understanding of the total plant operation.

Compliant with industry requirements

KONGSBERG's simulator models exceed requirements in the STCW convention, Regulation 1/12 and fulfill DNV's standard DNV-ST-0033 for Maritime Simulator Systems.

KONGSBERG ENGINE ROOM SIMULATORS

Our range of K-Sim Engine Room Simulators provides realistic, hands-on experience in a shiplike 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 engine types.

Our library includes models of diesel engines such as MAN B&W, Wärtsilä, Sulzer, Pielstick, MaK and MTU. We have Dual Fuel LNG engines & Methanol engine 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 Features and Details

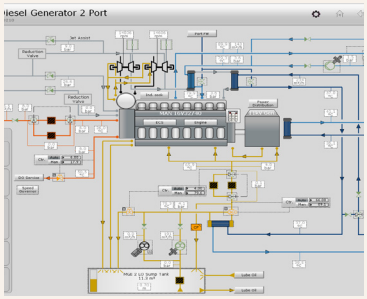
Drillship type	Ultra deep water	
Main Engines	6 x MAN 16V32/40 / 7000kW	
Propulsion Type	6 x Azimuth / 5500kW	
Emergency Generator	1 x Diesel generator set / 2000kW	
Dynamic Positioning (DP) Class	DP3	
Length overall	219,4	m
Breadth	42	m
Depth (moulded)	19,0	m
Transit Speed	14	knots

Model Main Specifications

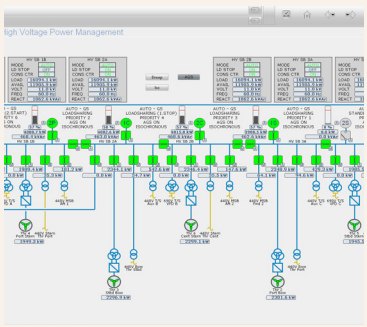
High fidelity engine room systems include:

- I Power generation
  - 6 MAN Medium Speed Main Engines
- Main Generators
  - 6 brushless A/C synchronous Generators
- Integrated Automation System
  - Alarm and Safety Warning System
  - Control and Power Management system
- Propulsion System
- Lubrication Oil System
- Emergency Generator
- Diesel Generator Sets and Support Systems
- Electric Power Supply Conversion Equipment
- Switchboards, Distribution, and Panels for Electric Power and Lighting
- Fire Detection, Water Mist
- Fresh Water Cooling System
- Sea Water Cooling System
- Ventilation System
- Bilge Water System
- Refrigeration System
- Fuel Systems
- Fuel and Lubricant Handling and Storage Systems
- Lubrication Oil Separator System
- Compressed Air Systems
- Ballast system

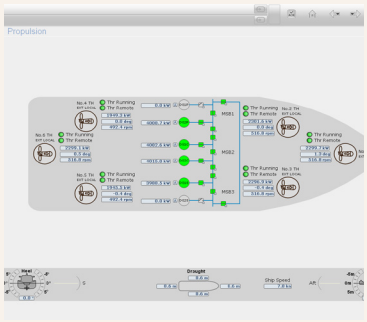
Note: Specifications subject to change without notice



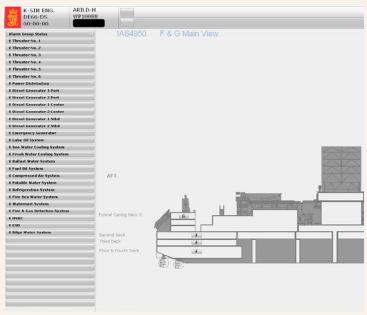
Diesel Generator



High Voltage Power Management



IAS Propulsion Overview



Fire & Gas Detection Main View

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