K-SIM ENGINE

KONGSBERG

KONGSBERG ENGINE ROOM SIMULATORS

Our range of K-Sim Engine Room Simulators provide realistic, hands-on experience in a shiplike environment.

Systems include vital components, such as main engine remote control, engineroom 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.

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.

K-Sim Engine
Diesel Electric Drillship DE66

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 generates power to the high voltage switchboards. The propulsion system includes six Azimuth thrusters.

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

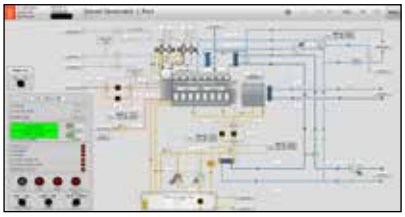
Training objectives

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 better understanding of the total plant operation.

Compliant with industry requirements

The Kongsberg Digital simulator models exceeds requirements in the STCW convention, Regulation 1/12 and fulfil's DNV's standard DNV-ST-0033 for Maritime Simulator Systems.



Diesel Generator

High Voltage Power Management

IAS Propulsion Overview

Fire & Gas Detection Main View

MODEL FEATURES & 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	42,0 m
Depth (moulded)	19,0 m
Transit speed	14 knots

MODEL MAIN SPECIFICATIONS

High fidelity engine room systems include:

- 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 Seperator System
- Compressed Air Systems
- Ballast system

Note: Specifications subject to change without any further notice.

Datasheet version:
K-Sim Engine Diesel Electric
Drillship DE66 - May 2021

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