



PEM OFFSHORE

## PEM OFFSHORE SIMULATION AND INNOVATION CENTER



KONGSBERG

# Product Description

## K-Sim Engine

### M42-Anchor Handling Tug Supply



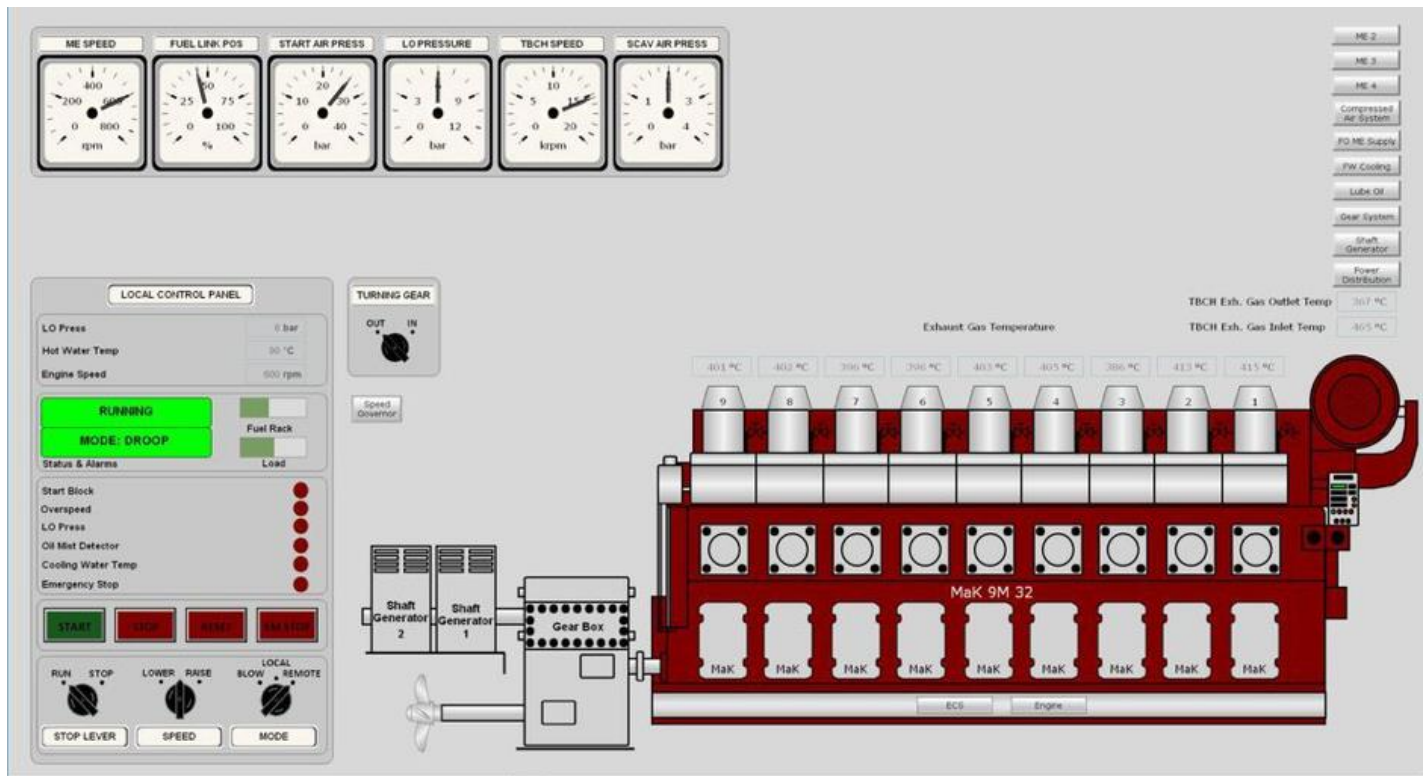
The K-Sim Engine Offshore Krupp MaK M42 AHTS model is based on a medium speed Engine Room configuration from a modern Anchor Handler, Tug & Supply vessel (AHTS) carrier with 4 Krupp Mak medium speed engines and 2 x controllable pitch in fixed kort nozzles. The model has 1 x 2040 Bhp tunnel & 1 x 1770 Bhp CP Retractable Azimuth as the forward thrusters and 2 x1200 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 generator switch Electrical transmission to a switch board. Control room operator panels as well as bridge and steering panels are included.



### Training objectives

The K-Sim Engine Offshore Krupp MaK M42 AHTS 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, as a result of realistic simulation of a real engine room.



### Compliant with industry standards

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



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### HELLO Model specifications

High fidelity engine room systems include:

- 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

*Note: Specifications subject to change without any further notice*



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