VESSEL




# DE HE

**SHALLOW TO ULTRA-DEEP WATER S-LAY,
HEAVY LIFT, CONSTRUCTION DP3 & ANCHOR VESSEL**

SAIPEM

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## SHALLOW TO ULTRA-DEEP WATER S-LAY, HEAVY LIFT,CONSTRUCTION DP3 & ANCHOR VESSEL

## VERSATILITY

2,300 M² DECK,
EASY TO RECONFIGURE

## CAPABILITY

ON-BOARD DOUBLE JOINT
PREFABRICATION / PIGGY BACK
FABRICATION LINE

## RELIABILITY

ADVANCED LAY EQUIPMENT
AND HEAVY LIFT CRANE
WITH LATEST MONITORING SYSTEM

### TECHNICAL SPECIFICATIONS

#### MAIN FEATURES
- Length overall: 199 m
- Beam (moulded): 47.6 m
- Depth (moulded): 15 m
- Transit speed: 13.5 kn
- Operating draft:
  Min. 7.5 m (without ship deck and ROB)
  Max. 10.6 m
- Year delivered: 2018

#### CLASSIFICATION
- Double class CCS and ABS + A1 (heavy lift, pipe-lay, DSV capable, ROV capable, SPS), E + AMS + ACCU + DPS3 + BWT + CPS + CRC + ENVIRO + HAB(WB) + HELIDECK + NBLES + ICE CLASS D0 +MLC-ACCOM + POT + UWILD + GP
- Flag: China

#### PROPULSION
- 2 x 5,500 kW azimuth, Rolls Royce thrusters
- 4 x 3,500 kW retractable, Rolls Royce thrusters
- 2 x 1,500 kW tunnel, Rolls Royce thrusters

#### DYNAMIC POSITIONING
- DP3 system: Kongsberg system K-Pos 32 + 12
- Reference systems: 3 x DGPS, 2 x Tautwire, 2 x HIPAP, 1 x Radius
- Integrated Automation system: K-Chief 700 Anti-heeling ballast system
- Anchor Positioning:
  10 x Zicom winches 350 t max.
  storage 76 mm 2,400 m steel wire
  10 x anchor Stevpris 12 t

#### ELECTRIC POWER GENERATOR
- Main generators: 6 x Type Wärtsilä 12V32, 750 rpm, diesel engines with total capacity 40,080 kW
- Emergency generator: 640 kW
- Harbour generator: 1,500 kW

#### ACCOMMODATIONS
- Total: 398 persons

#### DECK EQUIPMENT
- 5,000 t NOV-78 revolving pedestal crane
- Main hook hoisting capacity:
  5,000 t at 40 m radius (fixed over stern)
  3,500 t at 45 m radius, fully revolving
- Auxiliary hook hoisting capacity:
  1,200 t (4 falls), 600 t (2 falls), 300 t (1 fall) at surface
- Subsea capability: 3,000 m water depth (1 fall) with active heave compensation
- Whip hook hoisting capacity (suitable for man-riding): 200 t at 115 m radius
- 2 x Pipe handling cranes: 40 t at 35 m (suitable for man-riding) radius

#### PIPELAY EQUIPMENT
- 4 x 10 t provision cranes
- Rigid S-lay:
  3 x tensioners, TEN200V/HP, Horizontal, IHC with REMACUT control
- Main laying tension system: 600 t
- Pipe diameter range from 6" to 60" with coating
- Pipe storage capacity up to 9,000 t
  4 x double joint stations
- Stinger (fixed):
  Length overall: 106 m
  Overbend radius: 70 m – 350 m
- A&R Model:
  Capacity: 600 t traction winch
  Wire rope: 3,500 m length, 142 mm diameter

#### CAPACITIES
- Variable deck load: 9,000 t deck
- Capacity: 10 t/m²
- Fuel oil: HFO 4,200 m³/LDO 2,500 m³
- Fresh water capacity: 3,100 m³
- Ballast water capacity: 40,000 m³
- Endurance: 60 days offshore

#### ROVs
- 2 x work class ROVs rated to 3,000 m water depth

#### NAVIGATION
- Gyro compass, dual axis doppler speed logs, auto-pilot, ARPA, ECDIS, radars and GPS

#### HELIDECK
- D-Value 22.2 m

**DID YOU KNOW?**

**THE DE HE IS IDEALLY EQUIPPED FOR DEEP WATER SUBSEA CONSTRUCTION, WITH 2 WORK CLASS ROVS AND A HEAVE COMPENSATED AUXILIARY HOIST WITH A CAPACITY OF UP TO 1,200 T**

With a configurable S-lay system, a maximum dynamic tension of 600 t, in anchor or DP mode, the De He is capable of laying a wide range of pipeline diameters from shallow to deep water. Her 5,000 t crane has a proven design for jacket and deck installation. The De He's large open deck accommodates a dedicated equipment spread for special operations, such as tie-ins or hammering.