



# 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 M<sup>2</sup> DECK,  
EASY TO RECONFIGURE

#### 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 DO +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.

### CAPABILITY

ON-BOARD DOUBLE JOINT  
PREFABRICATION / PIGGY BACK  
FABRICATION LINE

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

### RELIABILITY

ADVANCED LAY EQUIPMENT  
AND HEAVY LIFT CRANE  
WITH LATEST MONITORING SYSTEM

- 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/m<sup>2</sup>
- Fuel oil: HFO 4,200 m<sup>3</sup>/LDO 2,500 m<sup>3</sup>
- Fresh water capacity: 3,100 m<sup>3</sup>
- Ballast water capacity: 40,000 m<sup>3</sup>
- 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.