BASSOE TECHNOLOGY

BT-UDS

ULTRA DEEPWATER DRILLSHIP

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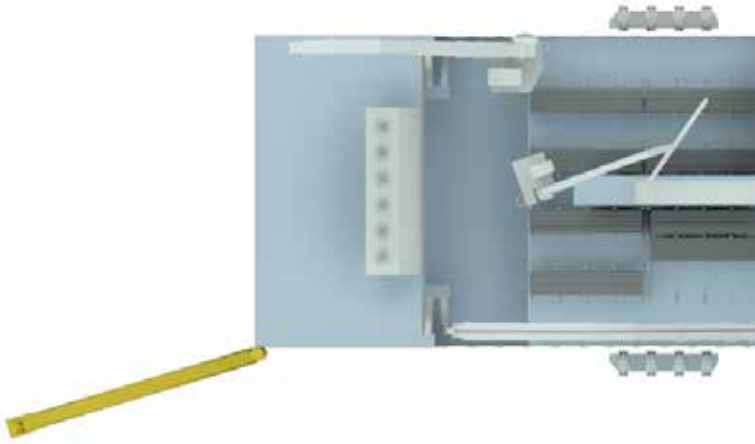


THE BT-UDS is a drillship designed to allow for efficient development drilling and completion operations in ultra deepwater locations, as well as traditional exploration drilling. The BT-UDS is designed for maximum operational flexibility, with high DP station keeping capability and high transit speed.

The BT-UDS features open deck areas on all four sides of the moonpool. This allows for a large storage capacity of various subsea related equipment, such as X-mas trees, various umbilical reels etc. related to development drilling and completion operations.

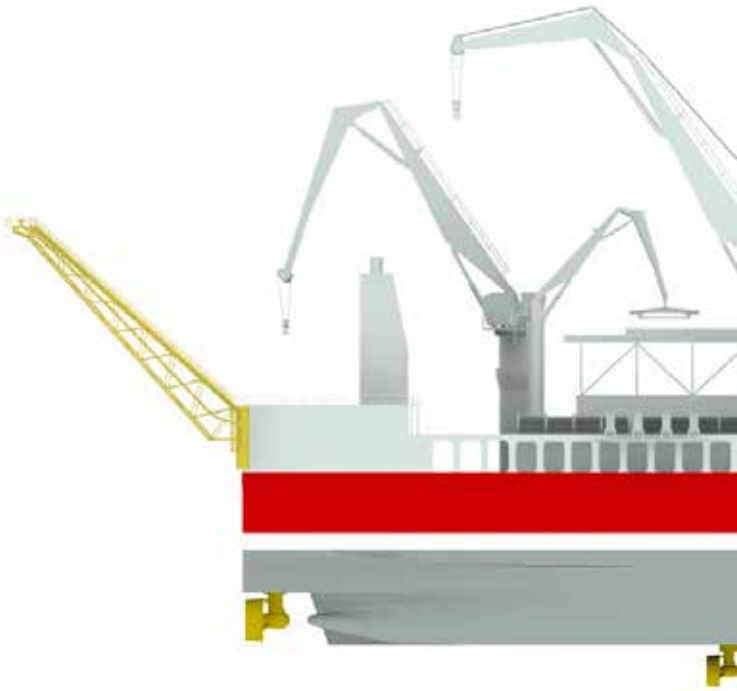
The dual activity drillfloor and derrick are arranged with an efficient layout and dedicated storage areas for coiled tubing equipment forward and aft, allowing rigging up and testing coiled tubing equipment off critical path.

The mud system features large storage capacity with three segregated systems with dedicated pits, tanks and pumps for water-based mud, oil-based mud and completion fluids.

The BT-UDS is arranged with mud handling and storage in the hull. Riser storage is arranged in an open top hold in the hull. This gives lower wind-profile, lower VCG and reduced weight of topside structure resulting in a smaller vessel.

Challenging size without compromising payload and capacities results in a competitive design.

A highly efficient twin-skeg hull and the low wind-profile give a high transit speed, reducing mobilization time, and excellent DP station keeping capability, which together with a well developed drain philosophy lead to a reduced environmental foot-print.

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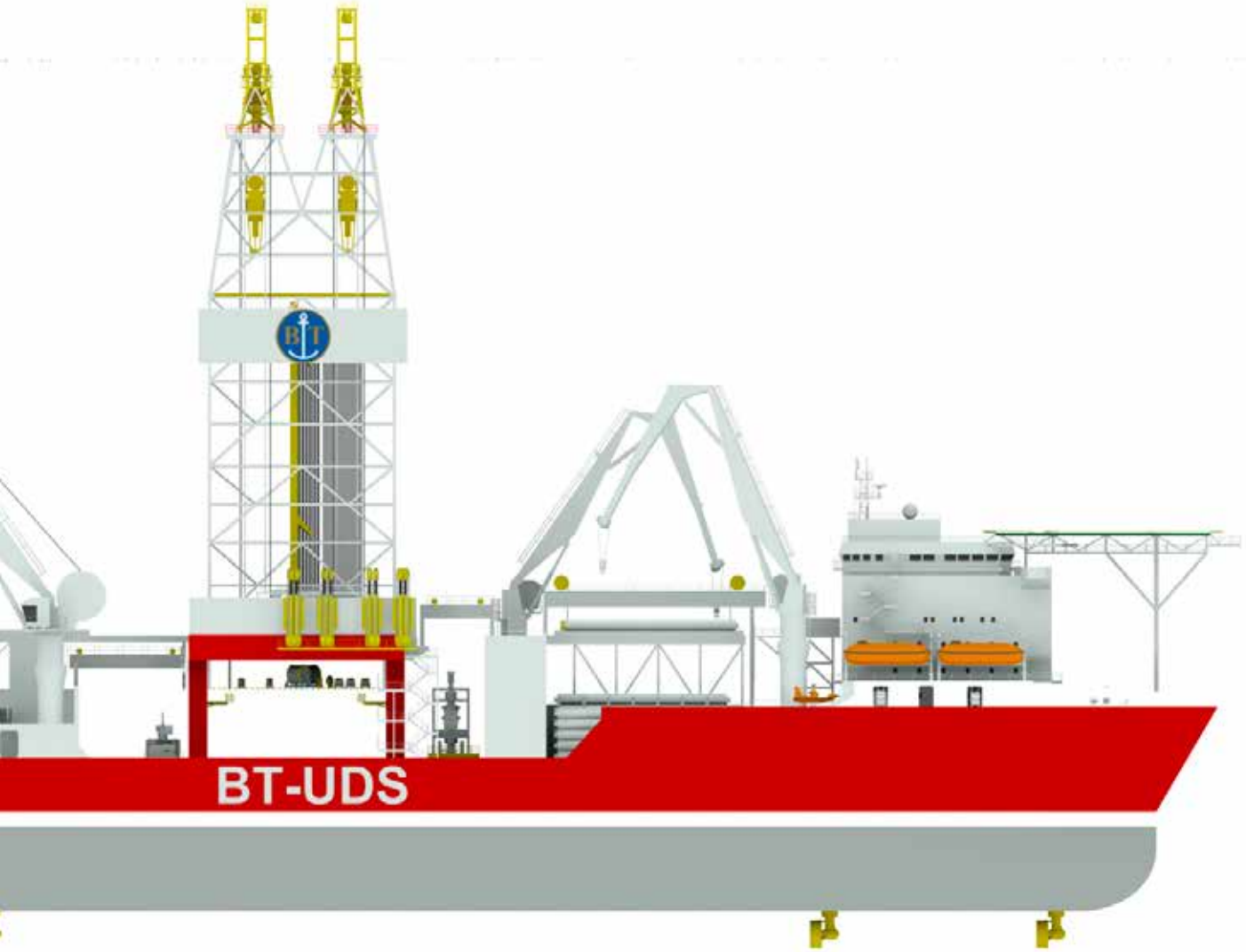

BT-UDS

GENERAL	
Class	DNV ✠1A1 Ship-shaped Drilling Unit, CRANE, DRILL (US), DYNPOS-AUTRO, DYNPOS-ER, F-AM, HELIDK-SH, ECO, BIS, CLEAN or corresponding ABS class
Rules and regulations	IMO MODU Code, IMO IMO MARPOL 73/78, IMO Load Line 1966, IMO COLREG 72, IMO DP Class 3
Operational areas	Brazil, Gulf of Mexico, South East Asia, West of Africa
POB	212
Helicopter	S-61-N/S-92/AW-101

DESIGN CRITERIA	
Water depth	3,650 m
Drilling depth	12,190 m
Transit speed	up to 16 knots

MAIN DIMENSIONS	
Length over all	227.60 m
Length between perpendiculars	218.80 m
Beam, moulded	38.00 m
Depth to main deck, moulded	18.40 m
Moon Pool	
Length in main deck	37.60 m
Length at base line	25.60 m
Breadth	12.80 m
Drill Floor	
Height above main deck	17.40 m
Height above base line	35.80 m
Height above sea level in operation	24.80 m
Draughts	
Draughts given are measured from underside keel (thrusters underneath keel not included)	
Light transit draught	9.00 m
Operation draught, moulded	11.00 m

PAYLOAD AND DISPLACEMENT	
Total payload, operation	25,000 tonnes
Displacement, operation	75,400 tonnes

CAPACITIES		
Active mud pits	1,750 m^3	11,100 bbls
Reserve mud tanks	1,850 m^3	11,800 bbls
Brine	1,450 m^3	9,100 bbls
Base oil	1,300 m^3	8,100 bbls
Drill water	4,050 m^3	25,500 bbls
Bulk barite/bentonite	625 m^3	22,060 cu ft
Bulk cement	485 m^3	17,000 cu ft
Fresh water	1,900 m^3	11,950 bbls
Fuel oil	12,050 m^3	75,950 bbls

MARINE SYSTEMS	
Power generation	6 x 7.6 MWe
Thrusters	6 x 5.0 MW

DRILLING EQUIPMENT	
Derrick height	210 ft
Derrick hook load, main	1,250 sh tons
Derrick hook load, aux	1,000 sh tons
Rotary	75½ / 60 ½ "
Set back	1,210 sh tons
Drawworks	9,200 HP active heave/4,600 HP
Riser tensioners	4,000 kips
Mud pumps	5 x 2,200 HP, 7,500 psi (space for 1 future)
BOP	two 7 ram, 18 ¾", 15,000 psi
Subsea trees, storage capacity for	12 subsea trees
Knuckle-boom cranes	3 x 100 + 1 x 165 tonnes
Riser gantry crane	75 ft risers

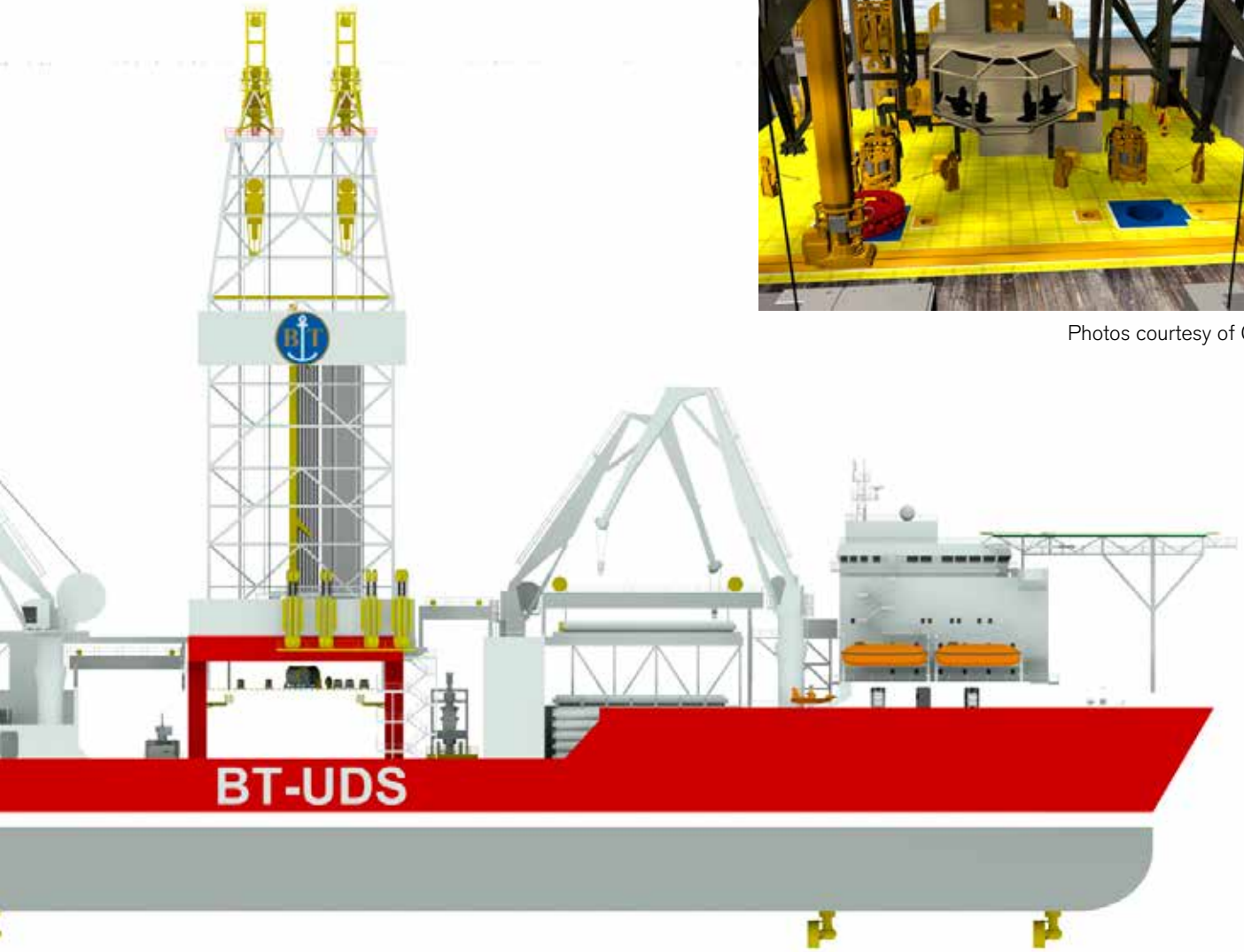
FOCUS ON PERFORMANCE

CHALLENGING SIZE

Bassoe Technology was contracted by a Korean yard to develop basic design for a BT-UDS to be built for Sigma Drilling, a company with major shareholders Skeie Technology and Vantage Drilling. The project was later terminated due to yard financial problems at which stage BT had completed the basic design of the BT-UDS.

SIGMA DRILLING

Photos courtesy of Cameron



BASSOE TECHNOLOGY

A LEADING DESIGNER

OF ADVANCED MOBILE OFFSHORE UNITS

www.logiken.se April 2014

Bassoe Technology focuses on marine and offshore engineering services including development and design of floating and mobile offshore units, such as semis, drill ships, tender drilling units and accommodation units.

Bassoe Technology has developed a large portfolio of innovative floating and mobile offshore units characterized by an emphasis on operational performance, efficiency and capacities while at the same time challenging size.

With a background from the shipbuilding and offshore engineering industry in Gothenburg, Sweden, our engineers have long experience in design and construction of offshore drilling units for harsh environment and floating production semis for both North Sea and GOM operations.

Bassoe Technology has designed for construction four semi-submersible units, two tender assist drilling barges and one ultra deep water drill ship.

Designs also include wind energy applications for offshore locations. The wind measurement mast located on the Bassoe Technology designed jack-up platform is an example of utilizing existing experience for new applications.

BassDrill Alpha delivered 2010

BassDrill Beta delivered 2014

Etesco IX to be delivered Q2-2016

Helix ESG Q5000 to be delivered Q1-2015


BT-UDS designed for Sigma Drilling Ltd

Atlantica Gamma to be delivered Q3-2014

Jack-up for offshore wind power industry delivered 2012

Atlantica Delta to be delivered mid 2015

Bassoe Technology AB
Visiting address: Östra Hamngatan 17, Gothenburg, Sweden
Postal address: PO Box 11130, SE-404 23 Gothenburg, Sweden
Tel: +46 31 855 800 **Email:** mail@basstech.se
www.basstech.se

Bassoe Technology is an independent designer of advanced mobile offshore units. Since 2013 owned by CIMC Offshore, with the largest semi-submersible drilling rig manufacturing center in China – Yantai CIMC Raffles Shipyard.

CIMC
MEMBER OF CIMC GROUP