

BASSOE TECHNOLOGY



BT-7000 DP

ULTRA DEEP WATER SEMI



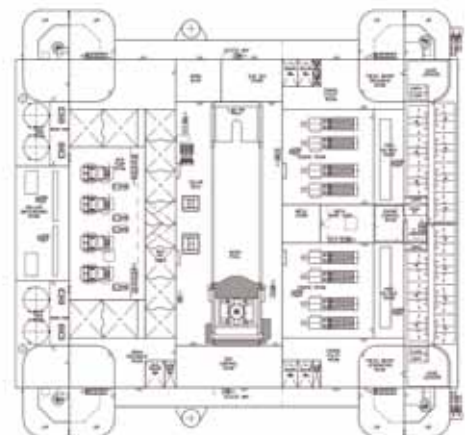
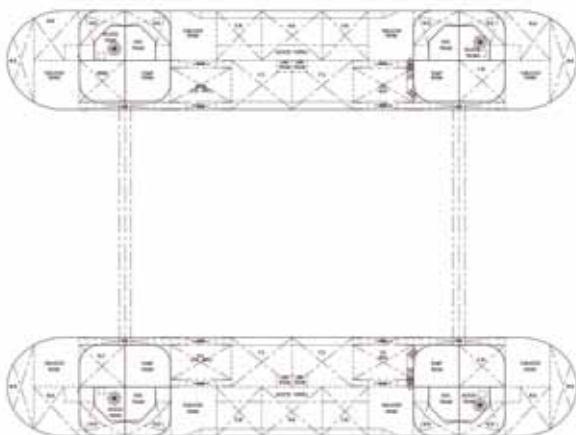
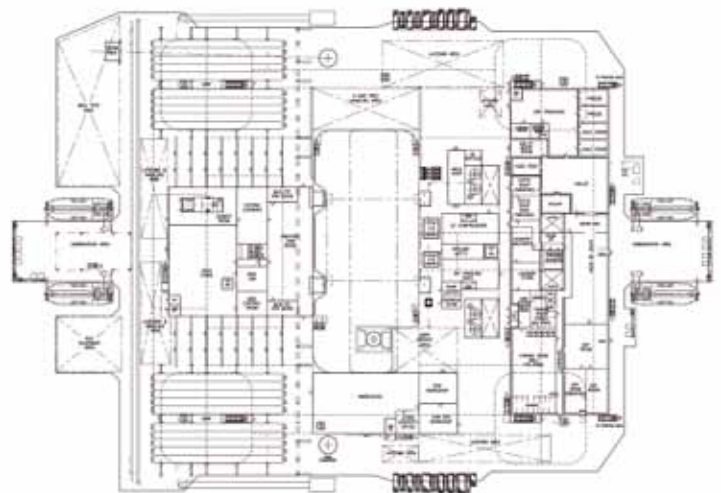
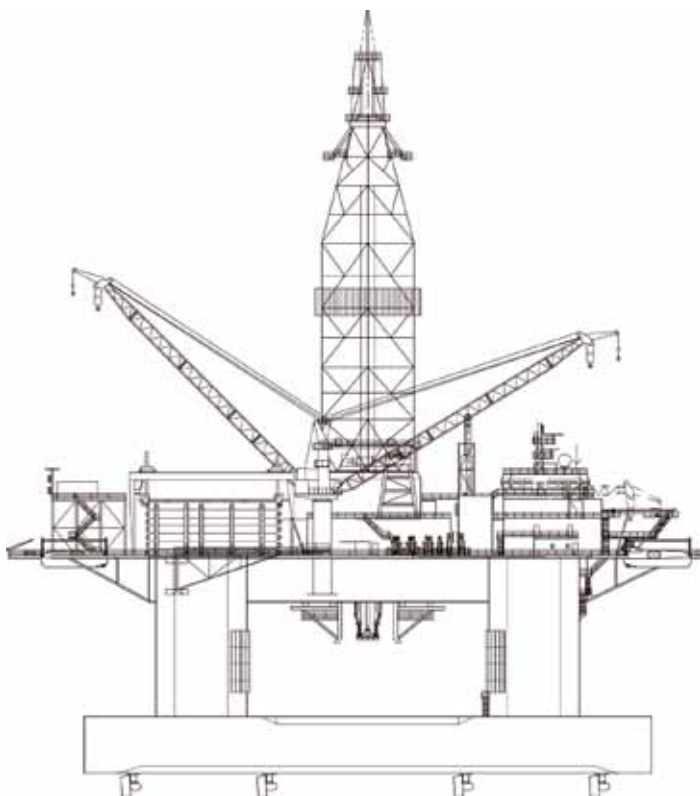
BT-7000 DP ULTRA DEEP WATER SEMI

DRILLING FEATURES

The BT-7000 is designed with maximum flexibility with regard to various drilling operations in water depths up to 3,000 m, as well as different drilling facilities, equipment and layouts. Dedicated riser storage and spacious pipe rack located aft.

The fully integrated fluid handling system with segregated mud and brine systems and with secondary mud stored in agitated pontoon tanks increases the flexibility. On upper deck are dedicated facilities for well stimulation equipment arranged. Access to the moon pool is arranged from both sides, subsea trees on port side and BOP on SB side.

The BT-7000 is developed and prepared for Yard Contract.



GENERAL	
Class:	ABS ✕A1 Column Stabilized Drilling Unit, ✕AMS, ✕ACCU, ✕DPS-2 (IMO DP class 2), optional ✕DPS-3
Flag State:	Designed to fly the flag of Panama or similar
Rules and Regulations:	IMO MODU Code, IMO SOLAS, IMO MARPOL 73/78, IMO Load Line 1966, IMO COLREG 72, IMO MSC/Circular 645 – Guidelines for the Design and Operation of Dynamically Positioned Vessels, IEC Publication no. 92 and ILO Convention no. 133 Concerning Crew Accommodation onboard Ships
Operational Areas:	Brazil, Gulf of Mexico, South East Asia, West Africa
POB:	190 people
Heli deck:	Sikorsky S-92/AW-101

DESIGN CRITERIA		
Water depth:	3,050 m	10,000 ft
Drilling depth:	12,190 m	40,000 ft
Max sign wave height:	9.7 m	31.8 ft
Natural heave period:	19.8 sec	

MAIN DIMENSIONS		
Upper Deck LxB	85.8x80.6 m	281'-5"x264'-5"
Deck Box height	7.8 m	25'-7"
Cellar Deck LxB	18.2x41.6 m	59'-2"x136'-6"
Moon Pool opening	8.6x41.6 m	28'-2"x136'-6"
Drill Floor height ab UD	9.75 m	32'-0"
Upper Deck elevation	37.3 m	122'-5"
Box Bottom elevation	29.5 m	96'-9"
Column spacing	57.2 m	187'-7"
Column LxB	15.6x15.6 m	51'-2"x51'-2"
Pontoon length	97.5 m	319'-10"
Pontoon beam	16.9 m	55'-5"
Pontoon height	9.75 m	32'-0"
Air gap in operation	10.0 m	32'-10"
Air gap in survival	13.5 m	44'-4"
Operation draft	19.5 m	64'-0"
Survival draft	16.0 m	52'-6"
Transit draft	9.45 m	31'-0"

PAYLOAD AND DISPLACEMENT	
Deck and column payload in operation/survival:	7,000 MT
Total payload in operation:	11,500 MT
Total payload in transit:	5,500 MT
Displacement in operation:	41,200 MT
Displacement in Transit:	30,500 MT

CAPACITIES		
Mud pits in upper hull	1,260 m ³	7,920 bbls
Liquid mud in pontoons	1,650 m ³	10,400 bbls
Brine	870 m ³	5,480 bbls
Base Oil	870 m ³	5,480 bbls
Drill Water	2,150 m ³	13,550 bbls
Bulk Mud and Cement	960 m ³	34,000 cu ft
Diesel Oil	2,640 m ³	16,610 bbls
Fresh Water	915 m ³	5,750 bbls
Ballast Water	20,250 m ³	127,365 bbls
Pipe Rack area	680 m ²	7,300 sq ft
Riser Storage area	600 m ²	6,460 sq ft
Well Test area	310 m ²	3,340 sq ft
ROV area	110 m ²	1,185 sq ft
Upper Deck Lay-down area	650 m ²	7,000 sq ft
Sack Storage area	260 m ²	2,800 sq ft

MARINE SYSTEMS	
Power Generation	8 x 4,800 kW
Azimuthing Thrusters	8 x 3,300 kW
Deck Cranes	2 x 75 MT @ 20 m

DRILLING EQUIPMENT		
Derrick foot print	16 x 15 m	53 x 49 ft
Derrick height	51.8/64.0 m	170/210 ft
Derrick Hook Load	1,000 s tons	2,000,000 lbs
Top Drive	1,000 s. tons	2,000,000 lbs
Rotary		60 1/2 "
Set back	454 tonnes	1,000,000 lbs
Motion compensation	400 s tons, 25 ft stroke	
Drawwork	4,000 hp	
Mud Pumps	4 x 2,200 hp, 7,500 psi	
BOP	5 ram, 18 3/4", 15,000 psi	
Subsea trees stowage area	5 trees	
Marine Riser joints	21" x 75 ft, 54" OD flotation	
Riser Tensioners	3,000 kips, 50 ft travel	
Riser Gantry Crane	2 x 20 MT SWL	
BOP Service Crane	2 x 75 MT SWL	
BOP Control System	5,000 psi Multiplex system	
Mux Reels (each)	11,000 ft	

A RECOGNISED DESIGN FORCE FOR THE OFFSHORE INDUSTRY

Bassoe Technology focuses on marine and offshore engineering services including development of designs for floating and mobile offshore units, such as semi-submersibles, drillships, tender drilling units and FP(D)SOs.

With a background from the shipbuilding and offshore engineering industry in Gothenburg, Sweden, Bassoe Technology's employees have a long experience of design and construction of offshore units, which include key-roles in the design of some of the most prominent 6th generation drilling units.

Bassoe Technology has developed a portfolio of concepts which among other includes:

- Semi-submersibles for
 - Accomodation
 - Drilling
 - Floating Production
 - Tender Assist Drilling
 - Well Intervention
- Drill Ships
- Tender Barges
- FP(D)SOs
- Arctic Drilling Units

Bassoe Technology has long-term relations with some of the world's leading offshore construction yards and has developed exclusive concepts for DSIC Offshore (China), DSME (Korea), MHI (Japan) and SWS (China).

Bassoe Technology provides a strong multidiscipline engineering force with vast experience in development of purpose designed floating units and "hands-on" experience from project, construction and commissioning management.



Bassoe Technology AB

Visiting address: Skeppsbron 5, Gothenburg, Sweden

Postal address: P.O. Box 2338, SE-403 15 Gothenburg, Sweden

Tel: +46-31-855800. **Fax:** +46-31-855899

Email: mail@basstech.se. **www.basstech.se**

Bassoe Technology is a design and project management company within the Bassoe Group, a rig-broker and project venture group with focus on offshore units.