

Frigstad D80TM MW

Tailor made solution for efficient offshore exploration & development



FRIGSTAD D80™ MIDWATER OUTLINE SPECIFICATION

REGULATORY BODY APPROVALS			
SOLAS 2011 Edition, MARPOL 1973/78, IMO MODU-CODE 2009, all with latest amendments			
CLASSIFICATION			
DNV +1A1 COLUMN STABILIZED DRILLING UNIT, POSMOOR-ATA, CRANE, HELDK-SH, ECO, F-AM, DRILL, BWM-T, COMF V(1) C(1), CLEAN DESIGN			
DESIGN CRITERIA			
Maximum Wind Velocity (Stability)	70 Knots / 100 Knots	Air Gap (Operational / Survival)	12.1 m /15.6 m (39.7 ft/51.2 ft)
Wave Height Hs	15.8 m (51.8 ft)		
PRINCIPAL PARTICULARS			
Length of Pontoons	105 m (344.5 ft)	Displacement (operational)	45,037 t (44,325 LT)
Width & Length, Pipe Rack Deck	76 m x 73 m (249.3 ft x 239.5 ft)	Displacement (survival)	41,466 t (40,810 LT)
Height to Pipe Rack Deck (ABL)	39.6 m (129.9 ft)	Displacement (transit)	35,523 t (34,961 LT)
Draft (operational)	19 m (62.3 ft)	Water depth (outfitted)	457.2 m (1,500 ft)
Draft (survival)	15.5 m (50.8 ft)	Water depth (max)	1,500 m (4,920 ft)
Drilling depth (max)	40,000 ft (12,192 m)	Water depth (minimum)	70 m (230 ft)
STORAGE CAPACITIES			
Bulk mud, upper hull	327 m ³ (11,548 ft ³)	Drill water, pontoon	3,230 m ³ (20,318 bbls)
Bulk cement, upper hull	327 m ³ (11,548 ft ³)	Potable water	1,260 m ³ (7,926 bbls)
Sack material, upper hull	7,000 sacks	Open pipe rack deck area	3,075 m ² (33,099 ft ²)
Base oil for mud, pontoon	940 m ³ (5,913 bbls)	Variable deck load (max operational)	7,000 t (6,888.7 LT)
Liquid mud / brine, upper hull	1,070 m ³ (6,730 bbls)	Variable deck load (max transit)	5,860 t (5,767 LT) incl. anchors & chains
Liquid mud / brine, pontoon	1,878 m ³ (11,813 bbls)	Payload (max operational)	11,200 t (11,021 LT)
Diesel FO (MDO)	4,840 m ³ (30,445 bbls)		
ACCOMMODATION/ OFFICE			
Total capacity of 160 men in 1 and 2 men cabins with attached toilet/bathroom, 10 nos.office spaces and service facilities			
MATERIALS HANDLING			
	Two (2) 80 t revolving deck cranes	with 46 m main boom, certified for person	nnel lift. Each crane is equipped with two
Deck Cranes	5 t tugger winches for material handling.		
	One (1) 9 t knuckle boom tubular handling crane winch for material handling		
MARINE SYSTEMS			
	Six (6) diesel engines, each with 3.	340 ekW capacity. Total installed horsepo	ower is approximately 20,040 ekW.
Main Power / Emergency Power		assigned as both main and emergency ge	• • •
<u> </u>	. , , , , , , , , , , , , , , , , , , ,	compartment. Engine exhaust shall comply	
Power Distribution		I VMC system. 11kV AC Alternators.	
	i	for Automatic Thruster Assisted mooring a	and self-propulsion.
Thruster		tch propeller with an 8° tilted thruster.	
	·	h twelve (12) underwater chain fairleads	
Mooring Contact	1	n mooring system with automatic thruster a	assisted. At water depth up to 457 m
Mooring System		as self-help mooring, for deeper water dep	
1		chain lockers in pontoon for stowage of 84	·
DRILLING SYSTEMS	()	3.1.1	
-	Single Quad Derrick with API gross nominal capacity of 2,500,000 lbs with a lifting height of 64 m and a maximum		
Drilling Rig		3 st), equipped for offline stand building c	0 0
· · ·		rsonnel elevator of 500 kg lifting capacity.	•
Rotary Table	One (1) 60.5" rotary with independent drive		
Top Drives	One (1) top drives with 680 t (750 s		
Riser Tensioners	Four (4) dual wire line tensioners, each with capacity of 200,000 lbs totalling 1,600 kips		
· -	One (1) 18.75" x 15,000 psi Annula	1 7 ,	
	Five (5) 18.75" x 15,000 psi Ram pi	<u>'</u>	
BOP and Riser		reventers ft joints with C&K, booster and hydraulic lin	les
		t joints with C&K, booster and hydraulic linerically racking 5,000 ft of risers (100 ft sta	
	·	ble to rack approximately 40,000 ft of drill	
Drill String	Tubular setback / fingerboards is all with subs, drill collars, heavy weigh		g samg, moidues o 170 utili sang
DRILLING FLUID SYSTEMS			
	Three (3) water and the co	s, single acting Triplex, 2200 HP, 7,500 ps	i ontional for 4 th mud access
Mud Pumps and Treatment System	Four (4) Shale Shakers with header box/flow divider and adjustable-while-drilling (AWD) with space reserved for two (2) additional shakers., one (1) gumbo conveyor, two (2) Degasser units, two (2) 60 bbls trip tanks and space reserved		
Jan. John Gyotom	for two (2) set of mud cleaners (desilter and desander)		
OTHERS	, ,		
OTHERS	Two (2) 5-1-1-2	orn of 4 500 leaves	arboard for
Elevators for Orange 15		ors of 1,500 kg capacity in port/aft and sta	
Elevators for Crew and Provisions	Two (2) freight & personnel elevators of 6,000 kg carrying a laden forklift in port/aft and starboard/forward upper hull		
		1,500 kg capacity in accommodation	
Helicopter Deck Capacity	Designed for MI8, S61/S92 and EH 101 helicopters. Helideck is installed with Integrated Fire Fighting System (DIFFS)		
Life Saving Equipment	Four (4) lifeboats with total capacity of 320 persons. Lifeboats are sized for average person weight of 98 kg and seat width of 21". Fourteen (14) inflatable liferafts with capacity of 25 persons each. One (1) fast rescue boat.		
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Note: The details included in this specific	ation may change without prior notic	ce.	10-Mar-16

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