Maersk Explorer

Drilling semi-submersible vessel

Owner	Maersk Drilling, Denmark
Builder	Keppel FELS Singapore
Delivered	2003

Description

Semi-submersible drilling unit for moderate environment, 3,280 ft water depth wire mooring (self contained). GustoMSC type DSS-20-CAS-M. The DSS20-CAS-M is developed jointly with Keppel DTG.

Principal dimensions

Length of main deck	63.5 m	208.3 ft
Breadth of main deck	64.5 m	211.6 ft
Depth to main deck	35.0 m	114.8 ft
Length overall	90 m	295.3 ft
Operational displacement	30,500 mt	
Operational draft	20.5 m	67.3 ft
Survival displacement	27,500 mt	
Survival draft	16 m	52.5 ft
Transit displacement	21,000 mt	
Transit draft	8.4 m	27.6 ft

Rules and Regulations

ABS +A1, column stabilized unit
IMO - MODU code 2001

Accommodation

130 persons

Capacities

Bulk mud & cement	900 m^3	31,783 ft^3
Liquid mud (deck)	600 m^3	3,774 bbls
Liquid mud (floaters)	350 m^3	2,201 bbls
Base oil	340 m^3	2,150 bbls
Brine	340 m^3	2,150 bbls
Drill water	1,200 m^3	7,547 bbls
Potable water	600 m^3	3,750 bbls
Fuel oil	780 m^3	4,906 bbls
Sack storage	5,000 sacks	
Pipe racks	390 m^2	4,198 ft^2
Vertical riser storage	200 m^2	2,153 ft^2

Variable load

Variable deck-column load:	
• Operational	4,400 mt
• Survival	3,400 mt
• Transit	3,000 mt
Variable load (total):	
• Operational	6,700 mt
• Survival	6,350 mt
• Transit	3,800 mt

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Drilling equipment

Derrick	180 ft - 2,000 kips
Rotary table	49.5”
Draw works	3,000 kW
Traveling block	2,000 kips
Top drive	2,000 hp
Crown compensator	25 ft
Riser	21” OD
Riser joint length	60 ft
Riser tensioners	10 x 200 kips
Mud pumps	3 x 1,650 kW

Machinery/equipment/fittings

Main generator sets	4 x 2,500 kW
Mooring traction winches	430 t holding
Mooring wires	76 mm, 3,000 m
Mooring anchors	8 x 12 t HHP
Deck cranes	1 x 40 t, 1 x 60 t
Knuckle boom crane	12 t

GustoMSC services

GustoMSC provided the basic design services, including ABS approval.

Data presented in this product sheet is for information only. Unit specific specifications as provided by the Owner shall prevail.