



## DYNAMIC DRILLING & SERVICES PVT. LTD.

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## DIVINE DRILLER

The **Divine Driller** (Ex-Valiant Driller/Ensco 85), is a Marathon Le Tourneau Class 116-C cantilever jack up which is currently undergoing extensive refurbishment/upgrade in ASRY shipyard, Bahrain and earlier had gone through extensive upgrade in 2012 at Keppel FELS Singapore. The rig is capable of operating in water depths up to 300 feet and is equipped with a 10,000psi Well control system, and is capable of drilling to depths of up to 25,000 feet. Rig management system is certified to **ISO 9001, 14001 & OHSAS 45001** standards

### GENERAL INFORMATION

Design	: Marathon Le Tourneau Class -116-C
Builder	: Marathon Le Tourneau
Year Built	: 1981, Singapore
Upgrade	: Currently undergoing major upgrade at ASRY Shipyard, Bahrain (2023).
Previous Name	: Valiant Driller / Ensco 85
Flag	: Liberian
Classification	: ABS-A1-MODU
Helideck	: S-61
Accommodation	: 120

### MAIN DIMENSIONS

Length	: 243 ft. (299.5 ft. including Helideck)
Breadth	: 200 ft.
Depth	: 26 ft.
Legs	: 3 x 410 ft. - Square Truss
Leg Spacing	: Transverse 142 ft. / longitudinal 129 ft.
Cantilever:	: 45 ft. x 12 ft. (stbd and port)
Spud Cans:	: 46 ft. diameter

### STORAGE CAPACITIES / WATER TREATMENT

Variable Deck Load	: 4400 kips
Cantilever Load	: 1,900 kips
Total Drilling Load	: 1,900 kips combined total
Tubulars in Pipe Rack	: 800 kips (setback 600kips)
Liquid Mud	: 1,780 bbls
Barite/Bentonite	: 5,050 cu. ft.
Cement	: 4,200 cu. ft.
Sacks	: 2,500 sacks
Drill water	: 8,985 bbls
Potable Water	: 1,294 bbls (can be increased)
Brine Storage	: 614 bbls (brine/base-oil)
Base Oil Capacity	: 1,905 bbls (incl 614bbl brine/base-oil tank)
Fuel Oil	: 1,780 bbls
Watermaker	: 2 x Alpha Laval D-PU-36-C100/125
Others	: 2 x Alfa Laval desalination plant, capacity 1,300 gpd

### MACHINERY

Main Power	: Total 4,960 kw from 2 x EMD 12-645-E9B turbo each rated at 2,500 hp and 1 x EMD 12- 645-8 Rootes Blown diesel rated at 1,650 hp
Power Distribution	: 600V/480V/240V/120V AC, 60Hz, 750V DC SCR system
Emergency Power	: 1 x 480V AC, 60Hz, 350kw generator

### OPERATING PARAMETERS

Water Depth	: 300 ft.
Min Water depth	: 30 ft
Max. Drilling Depth	: 25,000 ft

### DRAFT AND DISPLACEMENT

Loadline Draft	: 16 ft.+2.4 ft TOC
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### JACKING

Make/Speed	: Letourneau/1.5'/min,
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### Mooring

Winches	: 2 no's Letourneau
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### DRILLING EQUIPMENT

Derrick	: Wools Layer Company Inc.'160X36'X30'
Hook load	: 1,000,000 lbs. (max)
Draw works	: NOV 3000 DUE, 2,000 hp minimum
Racking	: Capacity of 25,000 ft. of 5 1/2" DP & 10 stands of 6 1/2 to 9 1/2 DCs
Top Drive	: TDS PS2 750 with soft torque control, 60,000 ft./lbs. cont. torque low gear @ 0-200 rpm
Rotary	: National D-495 Electric drive
Travelling	: Woolslayer WC-750
Mud Pumps	: 3 x National Triplex 12-P-160, 1,600 hp
Shale Shaker	: NOV Brandit 4 x VSM300

### WELL CONTROL SYSTEMS

BOP	: 1 x Cameron "U" double ram, 1 x Cameron "U" single ram, 10,000psi; 13-5/8" Shaffer 5,000psi annular. 1 x 21 1/4 Hydriil MSP 2K, 20 3/4" Shaffer x3K LWS Double
BOP Handling	: 2 x 37.5 tons Ingersol Rand pneumatic chain hoist dual handling capabilities rated@ 75 MT
Control System	: Koomey 160-11S type 80 uni, 8 stations :
Diverter	: 1 x VETCO KFDJ 49-1/2" (500psi)
TV System	: Roloos CTV
Choke and Kill	: 3-1/16" x 10,000psi with 2 Quality Oil tools
Remote operated chokes	

### HOISTING EQUIPMENT

Deck Cranes: 1 x Drecto 48 DNS 120 15, 40.75tons@40ft

2 x MLT PCM-120 AS, 32tons@40ft