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## ENSCO 101

### GENERAL INFORMATION

**Flag** Liberian  
**Previous Name(s)** None  
**Year Built** 2000  
**Builder** Keppel FELS Singapore  
**Upgrade** \_  
**Design** KFELS MOD V-A  
**Classification** A. B. S.

### MAIN DIMENSIONS

**Length** 228'  
**Breadth** 222'  
**Depth** 31'  
**Legs** 3 x 540 (triangular shape)  
**Leg Spacing** Longitudinal leg center 150', transverse leg center 156'  
**Cantilever** 70' From Stern to Rotary Centre line, 15' x 15' Transverse  
**Spud Cans** 59.67' diameter x 18' high  
**Deck Area** 8,335 sq. ft.

### DRAFT AND DISPLACEMENT

**Transit Draft** 19'  
**Transit Displacement** 38,028 kips

### MACHINERY

**Main Power** Total 12,900 KW from 6 x Cat 3516-B engines rated at 1,855 HP each  
**Power Distribution** 600/480/240/120 V AC, 60 Hz, 750 V DC SCR system  
**Emergency Power** 1 x 480 V AC, 60 Hz, 920 KW generator

### OPERATING PARAMETERS

**Water Depth** 400' max. (North Sea site sensitive) / 25' min.  
**Maximum Drilling Depth** 30,000'  
**Leg Penetration** min 1.5', max 86'  
**Air Gap** 80' - 110' working  
**Transit Speed** 4.5 knots  
**Survival Conditions** 87 knot waves: 80'  
**Criteria Design** MODU code

### DRILLING EQUIPMENT

**Derrick** Dreco 170' x 40' x 40'; rated 1,500,000 lb maximum hook load capacity  
**Drawworks** National 1625 UDBE, power 3,000 HP disc brakes with joy stick control  
**Rotary** National D-495 (49½")  
**Top Drive** Varco TDS-4H  
**Travelling** Dreco 750T c/w block retract system  
**Handling** Varco PRS4i automated pipe racking system / Varco AR3200 Iron Roughneck / Varco PS21 power slips  
**Cementing** Free placement only  
**Mud Pumps** 3 x National 14-P-220; 7,500 psi mud system  
**Drill Pipe** 19,500' 5.5" DP S-135 w/HT55 connections ; 8,000' 5" DP S-135 w/NC-50 connections  
**Drill Collars** 6 x 9-1/2" DC ; 12 x 8-1/4" DC ; 18 x 6-3/4" DC

### HOISTING EQUIPMENT

**Crane** 3 x 72 DNS Dreco King post diesel/hydraulic; 3 x 140' booms

### CAPACITIES

**Variable Deck Load** 12,859 kips  
**Cantilever Load** 2,600 kips (centerline < 60' aft of transom)  
**Total Drilling Load** \_  
**Tubulars in Pipe Rack** \_  
**Liquid Mud** 5,000 bbls  
**Bulk Mud/Cement** 17,600 cu. ft.  
**Sacks** 5,000 sacks  
**Drillwater** 9,000 bbls  
**Potable Water** 2,000 bbls  
**Brine Storage** 900 bbls  
**Base Oil Capacity** 850 bbls  
**Fuel Oil** 3,100 bbls  
**Watermaker** \_  
**Others** \_

### WELL CONTROL SYSTEMS

**BOP** 1 x Shaffer 18 3/4" 15,000 psi 4 ram NXT; 18 3/4" 10,000 psi Shaffer spherical  
**BOP Handling** 2 x JDN 75 ton Air op chain hoists  
**Control System** Shaffer Koomey 260/FA c/w Minuteman pod  
**Diverter** Regan KFDJ 2,000 psi  
**TV System** \_  
**Choke and Kill** 3 1/16" x 15,000 psi with Shaffer 15,000 psi choke

### MOORING

**Winches** 4 x Amclyde 350,000 lb holding capacity  
**Wire** 2" wire  
**Anchors** 4 x Delta Flipper 15,000 lb each

### HELIDECK

S-61; 75' diameter  
**JACKING AND SKIDDING SYSTEM** Keppel FELS, self positioning fixation system  
**ACCOMMODATION** 120 berths

### ADDITIONAL DATA

3 x Brandt VSM 300 shale shakers, 1 x Brandt VSM Multisizer;  
Zero discharge (single point)  
Offline stand/casing buildup  
Dedicated preload pumps  
Enclosed pollution containment unit (Texas deck)  
VSat TV system