



## ENERGY EXERTER

Jack Up  
Rig and Equipment Overview



## RIG SPECIFICATIONS

### GENERAL

**Rig** Energy Exerter  
**Flag** Liberia  
**Owner** Energy Exerter Limited  
**Previous Name(s)** STC Descartes; Trident XI, Maersk Exerter  
**Year Built** 1982  
**Builder** CFEM, Dunkerque, France  
**Design** CFEM T-2005-C, self-elevating cantilever jackup  
**Classification** DnV + Maltese Cross A1, self-elevating unit HELDK

### MACHINERY

**Main Power** 3 X Wartsila 12V22MD, 2,000 kW diesel engine; 3 X Leroy Somer S7 2,000 kVA generator  
**Power Distribution** 2 X dual dc drive ABB, PSD 747, output 750 V; 3 X single dc drive ABB, PSD 747, output 750 V  
**Emergency Power** Motormic 12P 15 SR marine generator,

### DRILLING EQUIPMENT

**Derrick** Joseph Paris 160 X 36X 36 ft; 1,400,000 lb gross nominal capacity; static hook load 500 st; Crown block: Joseph Paris, capacity 500 ton, 7 X 60" diameter sheave  
**Drawworks** National 1625-DE, 2,000 hp, driven by 2 X dc motor; with Baylor Elmagco 7838 eddy current electromagnetic brake  
**Rotary** National C-375, 37-1/2" opening, with hydraulic independent drive  
**Top Drive** Varco TDS-4, driven by 1 X GE 752 dc motor, 1,100 hp  
**Traveling Block/hook:** Oilwell 500 ton with 6 X 60" sheave, grooved for 1-1/2" wireline, 500 ton; swivel: National P-650  
**Handling** Varco AR3200 Ironrough neck, B&V 500 flush-mounted power stops 3 1/2" drillpipe to 9" drill collar  
**Cementing** Dowell Schlumberger CBS-362 twin pump, 10,000 psi; recirculating mixing unit; liquid additive system  
**Mud Pumps** 2 X National 12-P-160, triplex each driven by 2 X 800 hp Jeumont Schneider CIR 423 A dc motor

### MOORING

**Winches** 4 X Brissonneau et Lotz MB 420-F20 single drum winch, pulling capacity 29 ton on first layer, 5.5 ton on last layer; 2 X Brissonneau et Lotz single drum winch, pulling capacity 25 ton  
**Wire/Chain** Bow line 2 1/4" 700m, 220t break strain; stern line 1 1/4" 900m 66t break strain  
**Anchors** 2 X Vicinay high holding power 18,357 lb, holding power 100 ton; 2 X Delta Flipper, high holding power 5,512 lb, holding power 48 ton  
**Cranage** 2 X National OS-215 pedestal crane, 41 ton with 120 ft boom, port and starboard  
**Helideck** S-61; 83 ft diameter  
**Diving Spread** Contractor supplied  
**Jacking and Skidding System** Electromechanical double rack and pinion unit with 24 pinions per leg; Jacking Speed: 1.5ft/min  
**Accommodations** Max POB 86 berths

### MAIN DIMENSION/ DRAFT/DISPLACEMENT

**Length** 245 ft  
**Breadth** 283 ft  
**Depth** 24.6 ft  
**Legs** 3 X 438.2 ft; leg below hull 367 ft  
**Leg Spacing** 216 ft from centre forward leg to centre of aft leg  
**Cantilever** 45 ft lateral; 12 ft transverse each side  
**Spud Tanks** 46 ft diameter X 13.12 ft deep  
**Transit Draft** 32.8 ft loadline; 28.9 ft lightship  
**Transit Displacement** 13,050 ton

### OPERATING PARAMETERS

**Max Water Depth** 300 ft  
**Max Drilling Depth** 25,000 ft  
**Survival Conditions** Wind: 70 knots(gust); waves: 23m; period: 16 sec  
**Criteria Design** Wind: 50 knots(gust); waves: 10m; period: 11.4 sec

### CAPACITIES

**Variable Deck Load** 2,995 ton (6,708,800 lb) incl hook load; 1,686 ton towing; 1,686 ton jacking; 2,487 ton drilling (excl hook load)  
**Cantilever Load** Hook load static with top drive: 1,000,000 lb; rotary: 1,000,000 lb; setback: 550,000 lb  
**Tubulars in Pipe Rack** Main deck: 1,389,000 lb; Cantilever deck: 485,000 lb  
**Bulk Mud/Cement** 5,509/5,509 ft<sup>3</sup>  
**Liquid Mud** 1680 bbl  
**Sacks** 4000 sacks  
**Drillwater** 4572 bbl  
**Potable water** 1987 bbl  
**Fuel oil** 2378 bbl  
**Others** Pre-load and ballast water: 37657 bbl; base oil: 1257 bbl; brines-1270bbl; Atlas AFGU 2 SD, two stage distilling unit, capacity 11 gpm

### BOP SYSTEMS

**BOP** 13-5/8" NL Shaffer annular preventer, 5,000 psi annular; Cameron double U, hydraulic operated double ram, 13-5/8", 10,000 psi; Cameron single U hydraulic operated single ram preventer, 13-5/8" 10,000 psi; 21-1/4" BOP system: NL Shaffer annular preventer 21-1/4" 2,000psi; 2 X Cameron single U ram preventer 21-1/4" 2,000 psi  
**BOP Handling** 2 X 25 ton overhead crane  
**Control System** Koomey T25230, accumulator capacity 32 X 11-gallons, 3,000 psi bottles  
**Diverter** Regan KFDJ, 500 psi  
**Drillpipe** 15,000 ft 5"  
**DrillCollars** 6 X 9-1/2"; 15 X 8"; 30 X 6-1/2"; 17 X 4-3/4" drillcollars  
**Choke and Kill** Choke and kill manifold: Cameron 10,000 psi, H<sub>2</sub>S trim; choke and kill lines: 2 X 3" id 10,000 psi, 55 ft long hoses with a 3 1/8" connector each end

**Additional Data A.** 1 x Swaco BEM-600 shale shakers; 3 X Swaco BEM-650 Shakers; 1 X Wellco 3200 degasser; 1 X mud/gas separator  
**B.** Mud mixing system: 3 X 420 bbl and 1 X 280 bbl mud tank; 2 X 3" X 4" Halliburton automixer  
**C.** Mud pump: Mission 6" X 8" 100 hp supercharging pump  
**D.** Lifesaving equipment: 2 X Harding 50-man lifeboat; 8 X Viking 25-man life raft; 1 x Viking 12 man life raft; 1 X 32- Man Watercraft lifeboat.