These specifications are intended for general reference purposes only, as actual equipment and specifications may vary based upon subsequent changes, the contract situation and customer needs. All equipment shall be operated and maintained at all times, in compliance with Transocean standard operating manuals, policies and procedures, and within its stated operational limits or continuous rated capacity, in order to assure maximum operational efficiency.

Patent Notice: This rig, its systems, components, and/or equipment in use on this rig, may be protected by one or more US and/or foreign patents.

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**Transocean Endurance**

**Harsh-Environment Semi-Submersible**

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### General Description

- **Design / Generation:** GVA 4000 NCS
- **Constructing Shipyard:** DSME
- **Year Entered Service / Significant Upgrades:** 2015
- **Classification:** DNV GL + 1A1 Column Stabilized Drilling Unit (N)
- **Flag:** Norwegian
- **Dimensions:**
  - 116 m long x 97 m wide (main deck)
  - Drafts: 25.15 m max operating / 23.15 m operating / 19.5m survival
- **Accommodation:** 130 persons
- **Displacement:** 58,639 mt
- **Variable Deck:**
  - 4,000 mt operating / 3,000 mt transit
- **Transit Speed:** up to 7 knots
- **Maximum Water Depth:** 500 m
- **Maximum Drilling Depth:** 8,500 m

### Drilling Equipment

- **Derrick:** MHWirth / Beam Leg Construction, Single lift H: 52.0 m (170.6 ft) Offline standbuilding
- **Hookload Capacity:** 680mt / 750st
- **Drawworks:** MHWirth / GH 3000 EG-AC-SV-01
- **Compensator:** MHWirth - DSC 680mt Static, 454mt compensating. AHC 25.6mt compensating
- **Rotary Table:** MHWirth RTSS 60 ½” – 1250st mt
- **Top Drive:** MHWirth DDM – 750 – AC - 2M
- **Tubular Handling:** Riser feeding machine, 2 x pipe rack cranes, 2 x tubular feeding machine
- **Mud Pumps:** 3 x MH Wirth 2,200 hp. 7500 psi working pressure
- **HP Mud System:** Rated for 7500 psi. K&C manifold 15000 psi.
- **Solids Control:** 5 x MH Derrick Dual pool 600 shakers
- **Control Mud Level:** 1 MW Subsea pump. Pump depth rating 400m. 6000 ltr/min pump capacity.

### Power & Machinery

- **Main Power:** 6 x Wartsila 12V32 engines rated 5,850 kw, 720 rpm, each driving Siemens 6,588 kVA AC generators. Total capacity 35.1 MW.
- **Emergency Power:** 3 x main engines (one in each engine room) classified as emergency engines/generators.
- **Power Distribution:** Kongsberg Maritime K-Chief 700 Integrated Automation System, closed ring / 3 split, 11 Kv, 690V, 440V, 230V.

### Storage Capacities

- **Fuel Oil:** 2,600 m³
- **Liquid Mud:** 1,445 m³
- **Base Oil:** 629 m³
- **Brine:** 680 m³
- **Drill Water:** 1,508 m³
- **Potable Water:** 1,508 m³
- **Bulk Material (barite/bentonite):** 340 m³
- **BOP & Subsea Equipment**
  - **BOP Rams:** Cameron EVO 18-3/4 inch 10,000 psi 5 x ram preventers
  - **BOP Annulars:** 1 x Annular
  - **BOP Handling:** Overhead BOP crane 2 x 150 mt with aux winch
  - **Marine Riser:** 21 inch, 50 ft long, WT 0.625 inch. 500 psi.
  - **Tensioners:** Wire line 4 dual and 4 single with a max wire pull of 686 mt
  - **Diverter:** 16-inch flow line, 2 x 16’ overboard lines
  - **Tree Handling:** Overhead Xmas Tree crane 2 x 50 mt aux winch MW Wirth dual XT stack-up with flush deck skidding arrangement and XT elevator from main deck to moonpool
  - **Moonpool:** 10.3m Fwd to Aft x 9.0m Port to Stbd + Key slot to port side
  - **Station Keeping / Propulsion System**
    - **Thrusters:** 6 x Wartsila FS3503-571 each at 4 MW
    - **DP System:** Kongsberg DP Class 3 (DYNPOS AUTO + DYNPOS-ER)
    - **Mooring System:** POSMOOR ATA(R) – 4 x Rolls Royce windlasses, 8 Primary lines + 4 prelay
  - **Cranes:**
    - **2 x Liebherr BOS 4200 (100t at 9-24m internal lift / 67t at 20m external lift)**
    - **1 x Riser handling Knuckle Boom Crane (35mT at 12 to 25m)**
  - **Other Information**
    - **Helideck:** Rated for Sikorsky S-61N, S92

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**Revision Date: 30 Jan 2018**
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