

Transocean Barents



**For additional information
please contact:**

Transocean
Marketing Department
4 Greenway Plaza
Houston, TX 77046, USA

Phone: + 1-713-232-7500
Fax: + 1-713-232-7880
marketing@deepwater.com
www.deepwater.com

Harsh-Environment Ultra-Deepwater Dual-Activity Semisubmersible

General Description

Design / Generation	Aker H-6e Semi-submersible
Constructing Shipyard	Aker Kvaerner Stord
Year Entered Service / Significant Upgrades	2009
Classification	DNV 1A1 Column Stabilized Drilling Unit (N)
Flag	Marshall Island
Dimensions	295 ft. long x 230 ft. wide (main deck)
Drafts	75 ft. operating / 31 ft. transit
Accommodation	140 persons (upgradable to 160 persons).
Displacement	64,500 mt operating / 44,500 mt transit
Variable Deck	6,300 mt operating / 6,200 mt transit
Transit Speed	up to 8 knots
Maximum Water Depth	10,000 ft designed / 6,500 ft outfitted
Maximum Drilling Depth	30,000 ft

Drilling Equipment

Derrick	AKMH Dual RamRig® comprised of 2 x hoisting systems, each with its own set of hydraulic cylinders used to power the hoisting/lowering/heave compensation operation
Hookload Capacity	(Main) 2,000,000 lbs (908 mt) static hook load (Aux) 1,000,000 lbs (454 mt) static hook load
Drawworks	(Main) RamRig Drawworks 1,000 short ton (908 mt) (Aux) RamRig Drawworks, 500 st (454 mt).
Compensator	see 'Derrick' above
Rotary Table	(Main) AKMH Wirth RTSS 60-1/2 inch hydraulic, 1,000 st (908 mt). (Aux) AKMH Wirth RTSS 60-1/2 inch hydraulic, 500 st (454 mt).
Top Drive	(Main) AKMH MDDM 1,000 st (908 mt), 57,600 ft.-lbs. max continuous torque at 120 RPM, max speed 250 RPM.. (Aux) AKMH MDDM 500 st (454 mt), 57,600 ft.-lbs. max continuous torque at 120 RPM, max speed 250 RPM
Tubular Handling	Dual Vertical Pipe Handling System with manipulator arms. Aker MH racking systems for tubular range 3-1/2 inch to 20 inch; 2 x Hydraulic Iron Roughnecks for tubular range 3-1/2 inch to 9-3/4 inch.
Mud Pumps	4 x AKMH Wirth model TPK-7-1/2 inch x 14 inch 2,200 hp 7,500 psi working pressure.
HP Mud System	Rated for 7 500 psi
Solids Control	4 x Axiom AX-1 Dual Shakers

Power & Machinery

Main Power	8 x Rolls Royce (Bergen Diesel) engines rated 7,066 hp, 720 rpm, each driving 1 x Alconza/NIR 10092A-10QLV 6,235 kVA AC generator.
Emergency Power	2 x dedicated above main engines in 2 x different engine rooms are classified as emergency engines/generators.
Power Distribution	Kongsberg Maritime Integrated Control System ICS, Power Management System, 4 x split system, HV Distribution 11,0 Kv, 609 V Drilling, 690 V HPU and 609 V VSD switchboard

Storage Capacities

Fuel Oil	25,760 bbls.
Liquid Mud	5,675 bbls.
Base Oil	8,740 bbls.
Brine	7,500 bbls.
Drill Water	18,895 bbls.
Potable Water	6,092 bbls.
Bulk Material	(mud + cement) 27,546 cu. ft.
Sack Storage	5,000 sacks

BOP & Subsea Equipment

BOP Rams	Cameron TL 18-3/4 inch x 15,000 psi ram preventers (2 x doubles + 1 x super shear); 1 x Cameron C-PRO HDH4 15K hydraulic wellhead connector.
BOP Annulars	2 x 10K Annulars; Cameron DL 18-3/4 inch
BOP Handling	Overhead BOP cranes 2 x 75 mt with trolley; Overhead Xmas Tree cranes 2 x 50 mt with trolley; Independent BOP and Xmas Tree handling.
Marine Riser	Aker Drilling Clip Riser 21 inch, 75 ft long, 0.875 inch wall thickness.
Tensioners	6 x Aker MH Direct Acting Inline Tensioners, 242 mt each, 50 ft max stroke.
Diverter	Vetco Gray 60-1/2 inch 500 WP psi diverter with 14 inch flow line
Tree Handling	N/A
Moonpool	10.3 m x 23 m. Outfitted with skid rails.

Station Keeping / Propulsion System

Thrusters	8 x Rolls Royce Aquamaster 6,000 hp variable speed, fixed pitch, fully azimuthing thrusters.
DP System	Kongsberg DP Class 3.
Mooring System	8 x Aker Pusness electrical winches, 290 mt rated pull.

Cranes

Crane	2 pedestal cranes x Kenz Figuee electro-hydraulic cranes, 51 m boom, and 65 mt at 20 m radius.
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Other Information

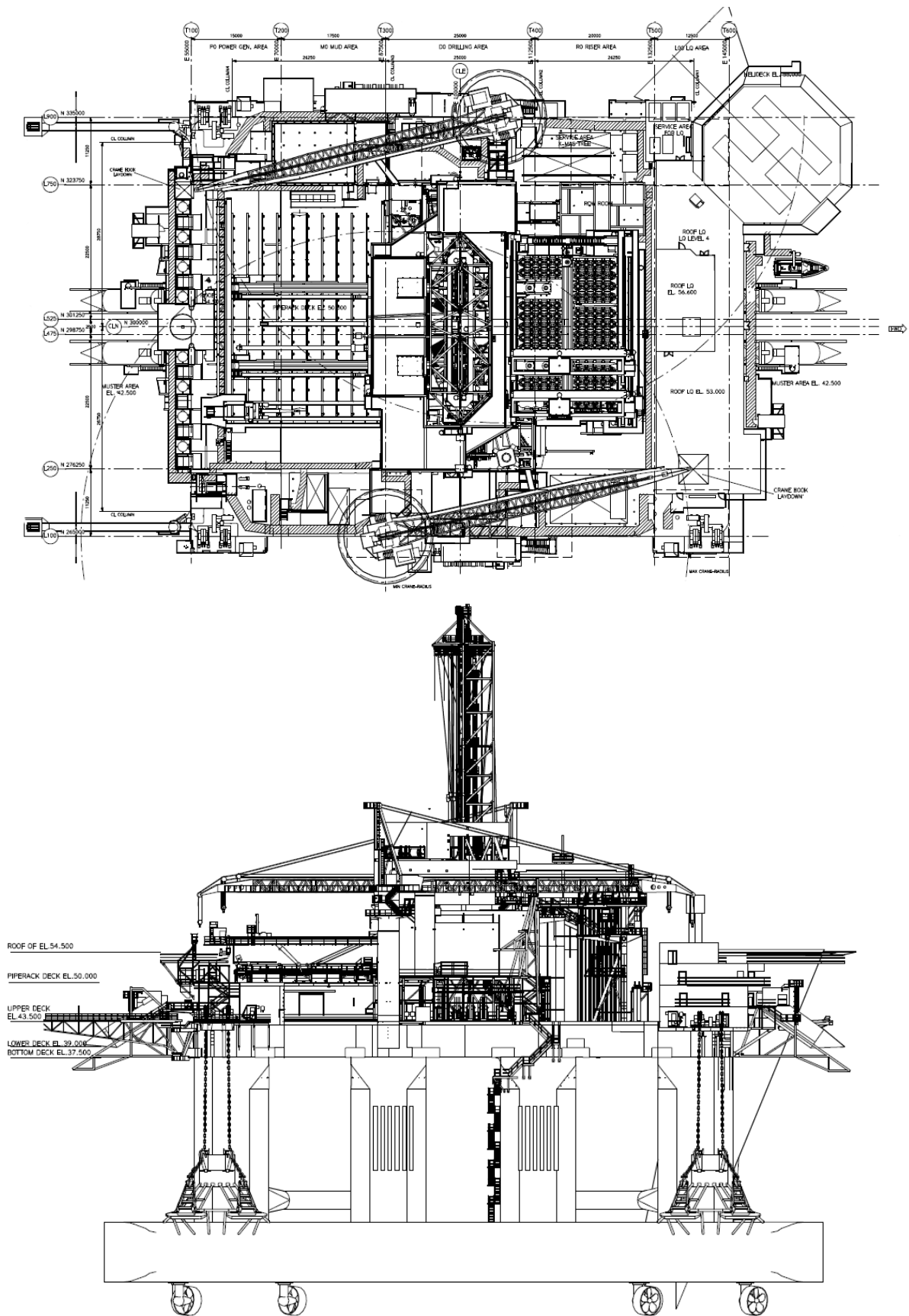
Helideck	Rated for Sikorsky S-61N, S92, EH 101 and Super Puma.
Other	Dual Activity. Capable of self-moored in up to 500 m water depths.

Revision Date: 25 May 2017



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.

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