



Stena Evolution

7th Gen Ultra Deep Water, Dynamically Positioned, DP Class 3 Drillship

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GENERAL INFORMATION

RIG TYPE / DESIGN.....	89K, Ultra Deep Water, Dynamically Positioned, DP3 Drillship
CONSTRUCTION SHIPYARD	Geoje Shipyard; SHI (Samsung Heavy Industries), South Korea
YEAR ENTERED SERVICE / SIGNIFICANT UPGRADES.....	2024
CLASSIFICATION	Det Norske Veritas - DNV: 1A, E0, DPS (3), CBT, CMON, DRILL (MPD), BIS, CRANE, HELDK, CYBER SECURE (Essential +)
FLAG.....	United Kingdom
DIMENSIONS	233 m (Long) x 42m (Wide) x 19m (moulded depth)
DRAFTS.....	11m operating / 9.5m transit
ACCOMODATION.....	240
VARIABLE DECK (OPERATING)...	24,000Mt
TRANSIT SPEED.....	up to 12 knots
MAXIMUM WATER DEPTH	12,000 ft
MAXIMUM DRILLING DEPTH	40,000 ft
HELIDECK.....	Rated for EH-101 and S-92

DRILLING EQUIPMENT

DERRICK	NOV Dual Hoisting and Online Setback to 1,814 mT Derrick
HOOKLOAD CAPACITY	[MAIN] 1,400st static hookload (2,800,000 lbs, 1270 mT) [AUX] 1,000st static hookload (2,000,000 lbs, 907 mT)
DRAWWORKS.....	AH Drawworks hoisting system with GEB22 5G2B28A1 TEWAC motors [MAIN]: 7 motors, 2-1/8" EIPS line, 8 sheaves, max 16 lines [AUX]: 5 motors, 2" EIPS line, 7 sheaves, max 14 lines
MOTION COMPENSATOR.....	[MAIN and AUX] Active Heave Compensated Drawworks [MAIN] NOV Drill String Heave Compensator, 1 off X (CMC-1000-25/2800) Rating: dynamic 500st, static 1400st [AUX] NOV off Crown Block (CBC-6X72-2.0/1000), static 1000st
ROTARY TABLE.....	[MAIN] NOV RST 75-1/2", static load rating of 1375st, max torque 120,000ft-lbs [AUX] NOV RST 60-1/2", static load rating of 1000st, max torque 120,000ft-lbs
TOP DRIVE.....	[MAIN and AUX] NOV TDX 1250, 2 x Reliance TE W (LM6) AC-motors (2 x 1,340HP). 1,250st static load rating, max continuous drilling torque 105,000ft-lb, max rotating speed 275 rpm.
TUBULAR HANDLING	Drillfloor: [MAIN and AUX] NOV ARN 270 Hydratong Roughnecks, trackless design Tubular range: 3 1/2" to 10". Maximum make-up/brake-out torque: 270/270kNm (199,000 Ft-Lb) respectively. HT14000 and HT 25000 Casing modules cover from 5 1/2" to 25" OD. [MAIN and AUX] NOV EBT-100 elevated back-up tong.

NOV horizontal pipe handling catwalk machine for single drillpipes, collars and casing. Pipe size range from 2 7/8" to 36" OD, for singles up to 50ft.

Setback within Derrick:
Dual NOV HR-IV ER quadruple stand height vertical pipe racking machines, 3 1/2" to 14.15", serving both main and aux wells. SWL: 15 mT.

RISER FEED	1 x NOV CVM-R55-75-HS riser handling catwalk for 90ft riser/slip-joints.
OFFLINE STANDBUILDING.....	1 x NOV Mousehole Racking System (2-3/8" – 18") 1 x King Size Rat Hole
MUD PUMPS.....	6 x NOV 14-P-220 Triplex pumps – 7,500psi rated
HP MUD SYSTEMS	Rated for 7,500psi working pressure
SOLIDS CONTROL.....	7 x MI Swaco MD-3 Shale Shakers, each rated up to 1,000 gpm

MANAGED PRESSURE

DRILLING (MPD).....	Controlled Mud Level, CML+ System - Top Fill Pump and Mud Return Line System - Subsea: Pump Integration Joint (PIJ), Closed Riser Accumulator Module, Dual Annular Joint, - Dual Pressure Relief System - Integrated within MPD Control System. - 5-1/8" 2,000psi wp Distribution Manifold, Pressure Relief Choke.
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WELL CONTROL EQUIPMENT

BOP STACKS.....	2 x 7 Ram, 2 Annular, NOV - Shaffer 18-3/4" 15,000psi BOP Stacks Features: API S53 Class 9-A2-R7, Dry BOP weight of 417mt BOP Footprint 212" x 240" x 706" Upper: Low Force Blind Shear Ram Middle: 1.Low Force Casing Shear Ram 2.Low Force Blind Shear Ram 3. Multi Ram 3 1/2" to 6 5/8" Bottom: 1.Multi Ram 5" to 7" 2. Multi Ram 3 1/2" to 6 5/8" 3.Inverted Multi Ram 3 1/2" to 6 5/8" 2 x Annular Preventer (LMRP) Shaffer SBOP – 10M 18-3/4" 10,000psi HMH SHD H4 Wellhead Connector 27" (30" adapter kit available)
BOP CONTROL SYSTEM.....	NOV-Rockwell automation Gen6 BOP Control System. Features: 3 x ABB Triplex 150hp electric pumps NOV Bladder type accumulator system, MKR regulator 2 x NOV-Radoil Inc. Mux Fiber Optic 13,000ft reel 1 x NOV-Radoil Inc. 5K Hotline Reel 13,000ft reel Kongsberd ACS 500 Acoustic emergency BOP control, MF version /4000m
RISER	NOV-Shaffer FT-HB 3,500kips, 90ft, 21" OD Riser & 4.5" ID Auxiliary Lines (Choke, Kill, Hydraulics & Booster) 2 x Telescoping Joint with 65ft Stroke and Dual Seal Assembly 2,000 ton Tension Ring with Hand Free Gooseneck Swivel 1 x Oil States II-5 Flex Joint, max 10 deg. deflection 7 x Matrix buoyancy module types, rated from 2,000 - 12,000 ft SW depth
RISER TENSIONER	8 NOV Double Wireline Tensioners for total rating of 1814 mT 12.5ft stroke, 50ft line travel, 75.2 m ³ working APV, 3,000 psi rated
CHOKE MANIFOLD.....	NOV 3-1/16" 15,000psi Choke Manifold, H2S service 2 x 15,000psi 3-1/16" ID Expro SCB2 Manual and Hydraulic Chokes NOV Choke Control System 2 x Flexi France – Technip C&K lines connections to riser
DIVERTER.....	NOV 500psi rated 21-500-75-EXT Diverter 21-1/4" Packer ID, 6x Diverter outlets & multisize flowlines
MOONPOOL	84ft x 41ft (25.60m x 12.48m)

POWER MANAGEMENT & MACHINERY

MAIN POWER	6 x Wartsila 16V32 4-stroke Diesel engines rated at 7.68 MW driving. 6 x ABB AMG 0900LS10 LSE alternators rated at 7.4 MW cont. AC 11 kV.
EMERGENCY POWER	1 x STX QSK650DMGE 4-Stroke Engine; x1 Cummins PM734G1 generator as designated emergency system rated at 1.8 MW, with back-feeding capab.
POWER DISTRIBUTION.....	3 x ABB Unigear 11 kV switchboards with ABB's Diesel Generator Monitoring System, DGMS, (will be delivered with ABS EHS-E notation for closed bus operations) supplying 440V and 220V distribution networks. Also 3x drilling drive switchboards with ABB ACS800 water cooled variable speed drilling drives.

STORAGE CAPACITIES

FUEL OIL.....	7,959 m ³ / 50,060 bbl	LIQUID MUD.....	Active: 1,329 m ³ / 8,359 bbl Reserve: 2,488 m ³ / 15,648 bbl Total: 3,817 m ³ / 24,007 bbl
BASE OIL.....	1,019 m ³ / 6,396 bbl	BULK CEMENT.....	414 m ³ / 14,620 bbl
BRINE.....	1,017 m ³ / 6,409 bbl	BARITE/BENTONITE	540 m ³ / 19,069 bbl
DRILL WATER	3,122 m ³ / 19,648 bbl	SACK STORAGE.....	9472 sacks
POTABLE WATER.....	1,563 m ³ / 9,830 bbl		

STATION KEEPING – PROPULSION SYSTEMS

THRUSTERS.....	6 x Rolls Royce UUC-455, variable speed, fixed pitch propeller, 360° azimuthing thrusters, vertically driven by 6 x ABB ACS6000 5.5MW water-cooled variable speed drives.
DP SYSTEM	Kongsberg K-Pos DP-22 dual redundant control system and K-Pos DP-12 backup control system with 3 x HIPAP, 2 x HAIN, 3 x DGPS position reference systems, i-series upgrade, 4 x MGC.
MOORING SYSTEMS	1 x 15,000kg Anchor, 111mm Ø, Grade 3, ABS, 76m Ø Anchor Chain. 1 x 200 mT Emergency Towing Gear.

CRANES

CRANES	3 x NOV Knuckle Boom Cranes, 100 mT OC4000KCE Max working radius: 48 m ; Derrick Anti-collision system. Prepared for Gripper Yokes for pipehandling 1 x NOV Active Heave Compensated Knuckle Boom Crane, 165T NOV OC4475KSCE-165 AHC
BOP HANDLING	BOP Overhead Gantry crane: 2 x 270 mT main and 2 x 35 mT aux winches. 1 x BOP skid rated to 600mT NOV Bulkhead Seafixing System.
RISER HANDLING	Riser Overhead Gantry crane including riser handling yoke Crane rated to 2 x 25.5 mT, yoke rated to 2 x 20mT 1 x Riser Elevation System: Crane SWL: 2 x 25.5 mT, Yoke SWL: 2 x 20mT
X-TREE HANDLING	X-Tree Overhead Gantry crane: 2 x 75 mT rated winches.

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These specifications are intended for general reference only. Equipment and Specifications are subject to change based on Contractual Status and Customer Requirements. Stena Drilling Limited operates and maintains the equipment in compliance with company policies and procedures.