



Stena Carron

**Harsh Environment Dynamically Positioned DP Class 3 Drillship
with full Managed Pressure Drilling (MPD) capabilities**

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GENERAL INFORMATION

RIG TYPE / DESIGN.....	Dynamically Positioned, Harsh Environment DP3 Drillship
CONSTRUCTION SHIPYARD	SHI (Samsung Heavy Industries)
YEAR ENTERED SERVICE / SIGNIFICANT UPGRADES.....	August 2008 / N/A
CLASSIFICATION	DNV: + 1A1 Ship-shaped Drilling unit(N) BIS Crane-offshore DRILL(N,MPD) DYNPOS(AUTRO) E0 F(A, M) HELDK(S, H) Recyclable UKVS
FLAG.....	United Kingdom (UK)
DIMENSIONS	228 m (Long) x 42m (Wide) x 19m (moulded depth)
DRAFTS.....	12m (39.4 ft) operating / 8.5m (27.9 ft) transit
ACCOMMODATION.....	180, upgradeable to 220
VARIABLE DECK (OPERATING)...	20,000Mt @12m
TRANSIT SPEED.....	up to 12 knots
MAXIMUM WATER DEPTH	3,000m designed / 3,000m outfitted 10,000 ft designed / 10,000 ft outfitted
MAXIMUM DRILLING DEPTH	10,700m / 35,104 ft *With Offset Setback Standbuilding Capability
HELIDECK.....	Rated for EH-101 and S-92, Equipped with trace heating

DRILLING EQUIPMENT

MAST.....	NOV Dual Hoisting and Drilling Tower - Offline Standbuilding Capability
HOOKLOAD CAPACITY	[MAIN] 1000st static hookload (2,000,000 lbs), upgradeable to 1250st [AUX] 600st static hookload (1,200,000 lbs)
HOIST/DRAWWORKS	[MAIN] Hydraulic NOV Cylinder Hoisting Rig system with emergency lift/boost speed accumulator system Rated to a capacity of 2,300,000lbs - upgradeable to a capacity of 1400st [AUX] Hydraulic NOV Cylinder Hoisting Rig system with emergency lift/boost speed accumulator system Rated to a capacity of 1,200,000lbs
MOTION COMPENSATOR.....	[MAIN] NOV Deadline Compensator with active heave compensation. Rated to 1040kips - upgradeable to 1125st compensated [AUX] NOV Deadline Compensator with active heave compensation. Rated to 840kips
ROTARY TABLE.....	[MAIN] NOV RST 60-1/2", static load rating of 1250st, max torque 57,000ft-lbs [AUX] NOV RST 49-1/2", static load rating of 800st, max torque 47,160ft-lbs
TOP DRIVE	[MAIN] NOV HPS-03 1000, 2 x ABB HXR 450 (LM6) AC-motors (2 x 990HP). 1,000st static load rating, max continuous drilling torque 68,888ft-lb. Upgradeable to NOV TDX 1250 [AUX] NOV HPS-03 750, 2 x ABB HXR 450 (LM8) AC-motors (2 x 1000HP). 750st static load rating, max continuous drilling torque 68,900 ft-lb
TUBULAR HANDLING	Drillfloor: Main and aux well NOV MPT 200 Hydratong Roughnecks, tubular range 3 1/2" to 9 3/4". Maximum make-up/brake-out torque: 140/200kNm respectively. Casing tong KT-7585 data: Jaw range: 2 3/8" to 8 5/8" (inch), Max torque: 25,000 Ft-Lb 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: Dedicated off-drillfloor pipe racking setback comprising dual NOV HR-IV quadruple stand height vertical pipe racking machines, 3 1/2" to 13 5/8", serving both main and aux wells.
RISER FEED	1 x NOV horizontal riser handling catwalk for 80ft riser/slip-joints.
OFFLINE STANDBUILDING	1 x NOV MPT 200 Hydratong Roughneck, tubular range 3 1/2" to 9 3/4" Casing tong KT-7585 data: Jaw range: 2 3/8" to 8 5/8" (inch) Max torque: 25,000 Ft-Lb NOV horizontal pipe handling catwalk machine for single drillpipes, collars and casing. Pipe size range from 2 7/8" to 38" for singles up to 50ft. 1 x Torque Master; 3-1/2" to 14" Diameter (90 to 355mm) Tailstock 3-1/2" to 18" Diameter (90 to 457mm) Headstock 2-3/4" to 13-1/4" Diameter (70 to 336mm) Tailstock using extended tong dies 2-3/4" to 17-1/4" Diameter (70 to 438mm) Headstock using extended tong dies
MUD PUMPS	4 x National FC2200 pumps – 7500psi
HP MUD SYSTEMS	Rated for 7,500psi – Dual Fluid System upgradeable
SOLIDS CONTROL.....	5 x NOV Shale Shakers – VSM 300
MANAGED PRESSURE DRILLING (MPD).....	Fully Integrated / Outfitted MPD System - DNV Approved & Field Proven - Integrated Riser Joint incorporating RCD (with dual passive seals) - 37ft, 2,000psi wp, 3,500kips, 18.75" ID, below tension ring, above ROPS. - Multi-Level Pressure Relief System - Integrated MPD Control System. - 2 x 175ft, 5,000psi API 17K, Flowspool Hoses and 1 x 150ft, 5,000psi. - 5-1/8" 5,000psi wp Distribution Manifold, Pressure Relief Choke.

WELL CONTROL EQUIPMENT

BOP STACKS.....	2 x 6 Ram, 2 Annular, Cameron 18-3/4" 15,000psi TL BOP Stacks Features API S53 Class 8-A2-R6, Wet BOP weight of 660kips (< 320mT) BOP Footprint 160" x 200", Upper Blind Shear Rams fitted with Tandem Booster Bonnets Upper Annular (LMRP) Hydril 18-3/4" 10,000psi GX Lower Annular (Lower Stack) Cameron 18-3/4" 10,000psi DL Vetco SHD H4 Wellhead Connector 27" (30" adapter kit available)
BOP CONTROL SYSTEM.....	Cameron MKII Multiplex Primary & Secondary BOP Control Systems. Secondary BOP control system used for offline testing of setback BOP stack (minimising end of well maintenance time). Features; Acoustic and API 17H ROV Intervention Secondary Control Systems Emergency Disconnect, Autoshear & Deadman (AMF) Emergency Control Systems
RISER	Cameron Load King, 3,500kips, 80ft, 21" OD, Flanged Riser & 4.5" ID Auxiliary Lines (Choke, Kill, Hydraulics & Booster) Telescoping Joint with 63ft Stroke and Dual Seal Assembly Subsea Services Remotely Operated Pull-in System (ROPS) (providing efficient hands free connection and disconnection of colexip hoses).
RISER TENSIONER	6 x 600kip, NOV N-Line Direct Acting Tensioners Features; 48.5ft stroke, Riser Anti-Recoil System
CHOKE MANIFOLD	Cameron 3-1/16" 15,000psi Choke Manifold Features; 3-1/16" 15,000psi Inlet / 4-1/16" 10,000psi Outlet 2 x 15,000psi Hydraulic Chokes, 2 x 15,000psi Manual Chokes HDI Choke Control System
DIVERTER.....	GE KFDS-CSO 500psi WP Diverter Features; Designed for 60.5" Rotary Table, Diverter Housing is 59" ID 21-1/4" Packer ID, Pressure Rating of 500psi in Complete Shut Off (CSO)
TREE STORAGE & HANDLING	1 x NOV X-Mas Tree Gantry Crane, 264kips (120mT) Capacity 1 x NOV X-Mas Tree Trolley, 264kips (120mT) Capacity 4 x NOV X-Mas Tree Skids, 264kips (120mT) Capacity
MOONPOOL	84ft x 41ft (25.60m x 12.48m)

POWER MANAGEMENT & MACHINERY

MAIN POWER	6 x Wartsila 16V32C diesel engines rated at 7.68 MW driving 6 x ABB AMG 1120MR10 LSE alternators rated at 7.4 MW
EMERGENCY POWER	6 x Main power generators each capable of operating as designated emergency generator rated at 7.4 MW with automatic change-over function from main switchboards to supply ABB Unigear 11 kV emergency switchboard.
POWER DISTRIBUTION.....	3 x ABB Unigear 11 kV switchboards with ABB REM 543 protection relays supplying 690 V, 440 V and 220 V distribution networks and with ABB ACS800 air-cooled variable speed driving drives.

STORAGE CAPACITIES

FUEL OIL.....	10,805 m ³ / 67,961 bbl	LIQUID MUD	Active: 1,004 m ³ / 6,315 bbl Storage: 2,345 m ³ / 14,750 bbl Total: 3,350 m ³ / 21,065 bbl
BASE OIL	490 m ³ / 3,082 bbl	BULK CEMENT.....	420 m ³ / 2,642 bbl
BRINE.....	490 m ³ / 3,082 bbl	BARITE.....	315 m ³ / 1,982 bbl
DRILL WATER	4,464 m ³ / 28,078 bbl	BENTONITE.....	105 m ³ / 660 bbl
POTABLE WATER.....	2,052 m ³ / 12,907 bbl	SACK STORAGE.....	250 tonnes / 7,500 sacks

STATION KEEPING – PROPULSION SYSTEMS

THRUSTERS.....	6 x Rolls Royce UUC-455, variable speed, fixed pitch, 360° azimuthing thrusters driven by 6 x ABB ACS6000 5.5MW water-cooled variable speed drives.
DP SYSTEM	Kongsberg K-Pos DP-32 dual redundant control system and K-Pos DP-12 backup control system with 2 x HiPAP, 1 x HAIN, 3 x DGPS position reference systems.
MOORING SYSTEMS	2 x 12.675 Mt Anchors

CRANES

CRANES	3 x NOV Knuckle Boom Cranes, model OC3932KCE 1 fall: SWL 17mT @ 45m radius 5 fall: SWL 85mT @ 17m radius All units personnel handling – upgradeable to 100mT internal lift
BOP HANDLING	BOP overhead gantry crane with 2 x 175mT main winches and 1 x 20mT auxiliary winches. 1 x BOP skid rated to 370mT 2 x LMRP skids rated to 350mT each. Dual BOP/LMRP sea fastening.
RISER HANDLING	Riser overhead gantry crane including riser handling yoke. Crane rated to 2 x 20mT, yoke rated to 2 x 17.5mT
TUBULAR HANDLING	NOV Pipehandling Knuckle Boom Crane, model C2201 PCE Gripper yoke size & Type: 2-7/8" to 20", 3.5mT SWL Without gripper: SWL 14mT @ 17m radius SWL 6mT @ 29m radius

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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.

