



Stena DrillMAX series
Harsh Environment Dynamically Positioned DP Class 3 Drillships

For additional information, please contact:
 Stena Drilling Ltd, Greenbank Crescent, East Tullos, Aberdeen, AB12 3BG
 Phone: +44 1224 401180 Fax: +44 1224 897089
 SDLCommercial@Stena.com www.stena-drilling.com

GENERAL INFORMATION

RIG TYPE / DESIGN.....Dynamically Positioned, Harsh Environment DP3 Drillship
 CONSTRUCTION SHIPYARDSHI (Samsung Heavy Industries)
 YEAR ENTERED SERVICE /
 SIGNIFICANT UPGRADES.....'07 Stena DrillMAX | '08 Stena Carron | '09 Stena Forth | '12 Stena IceMAX
 CLASSIFICATIONDNV: + 1A1 Ship-shaped Drilling unit(N) BIS Crane DRILL(N, MPD READY)
 DYNPOS(AUTRO) E0 F(A, M) HELDK(S, H)
 FLAG.....United Kingdom (UK)
 DIMENSIONS228 m (Long) x 42m (Wide) x 19m (moulded depth)
 DRAFTS.....12m (39.4 ft) operating / 8.5m (27.9 ft) transit
 ACCOMODATION.....180, **upgradeable to 220**
 VARIABLE DECK (OPERATING)...19,500Mt @12m
 TRANSIT SPEED.....up to 12 knots
 MAXIMUM WATER DEPTH3,000m designed / 2,285m outfitted - **Additional Riser Available**
 10,000 ft designed / 7,500 ft outfitted - **Additional Riser Available**
 MAXIMUM DRILLING DEPTH10,700m / 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 HANDLINGDrillfloor:
 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 FEED1 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 PUMPS4 x National FC2200 pumps – 7500psi
 HP MUD SYSTEMSRated for 7,500psi – **Dual Fluid System upgradeable**
 SOLIDS CONTROL.....5 x NOV Shale Shakers – VSM 300
 MANAGED PRESSURE
 DRILLING (MPD).....MPD-Ready, DNV Approved for Stena Drilling owned MPD System

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 Annular (LMRP) Cameron 18-3/4" 10,000psi DL
 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 MKIII 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 coflexip hoses).
 RISER TENSIONER6 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, 551kips (250mT) Capacity
 4 x NOV X-Mas Tree Skids, 264kips (120mT) Capacity
 MOONPOOL84ft x 41ft (25.60m x 12.48m)

POWER MANAGEMENT & MACHINERY

MAIN POWER6 x Wartsila 16V32C diesel engines rated at 7.29 MW driving
 6 x ABB AMG 1120MR10 LSE alternators rated at 7 MW
 EMERGENCY POWER6 x Main power generators each capable of operating as designated
 emergency generator rated at 7 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 drilling drives.

STORAGE CAPACITIES

FUEL OIL.....10805.3 m ³ / 67963 bbl	LIQUID MUD.....Active: 1068 m ³ / 6718 bbl Reserve: 1004.8 m ³ / 6320 bbl Total: 2072.8 m ³ / 13038 bbl
BASE OIL490.3 m ³ / 3084 bbl	BULK CEMENT.....420 m ³ / 2642 bbl
BRINE.....490.3 m ³ / 3084 bbl	BARITE.....315 m ³ / 1981 bbl
DRILL WATER4464.2 m ³ / 28079 bbl	BENTONITE.....105 m ³ / 660 bbl
POTABLE WATER.....2052.5 m ³ / 12910 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 SYSTEMKongsberg 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 SYSTEMS2 x 12.675 Mt Anchors

CRANES

CRANES3 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 HANDLINGBOP 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 HANDLINGRiser overhead gantry crane including riser handling yoke.
 Crane rated to 2 x 20mT, yoke rated to 2 x 17.5mT
 TUBULAR HANDLINGNOV 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