



# Stena Don

## Harsh Environment POSMOOR ATAR Twin Pontoon, 6 columns CS30 Semi-Submersible

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### GENERAL INFORMATION

RIG TYPE / DESIGN.....	Harsh Environment POSMOOR ATAR Twin Pontoon, 6 columns CS30 Semi-Submersible
CONSTRUCTION SHIPYARD.....	Kvaerner Warnow Werft Shipyard, Warnemunde, Germany
YEAR ENTERED SERVICE / SIGNIFICANT UPGRADES.....	2001 / 2015 - Mid Life Upgrade / 2018- Mooring & Accommodation Upgrade
CLASSIFICATION .....	DNV: +1A1, Column Stabilized Drilling unit, DRILL (N), Structure (N), E0, DYNPOS AUTRO, CRANE, HELDK, POSMOOR ATAR
FLAG.....	United Kingdom (UK)
DIMENSIONS .....	95.5 m (Long) x 81.0m (Wide)
DRAFTS.....	21.5m operating / 11.5-12m transit
ACCOMODATION.....	140
VARIABLE DECK LOAD.....	Drilling = 5427Mt, Survival = 5354Mt, Transit = 4474Mt
TRANSIT SPEED.....	up to 8 knots
MAXIMUM WATER DEPTH .....	650m / 2132ft
MAXIMUM DRILLING DEPTH ....	8,500m / 27,900ft
HELIDECK.....	Rated for EH-101 and S-92

### DRILLING EQUIPMENT

MAST.....	Hydralift NOV 750-36 – 120ft free net height
HOOKLOAD CAPACITY .....	750 short ton (680 metric ton)
HOIST/DRAWWORKS .....	Hydralift NOV 750-36 RAM system, 3 x hydraulic cylinders, 680Mt
MOTION COMPENSATOR.....	Hydralift Passive Heave Compensator, 7,62m stroke, 680mt Active Heave Compensator, 7,62m stroke, 317mt
ROTARY TABLE.....	Wirth RTSS 60-1/2", 680Mt
TOP DRIVE .....	Hydralift HPS 750 2E AC Drive(TD), 750 short ton (680 metric ton), 7,500psi mud circuit
TUBULAR HANDLING .....	NOV Hydraulic Roughneck – F3482, tubular range 3 1/2" to 10", Maximum make-up/brake-out torque 270kNm NOV F3481-D1201-G0001 HydraRacker III
RISER FEED .....	Hydralift PR 30-65 w/ Catwalk, Up to 65 feet and 30 metric tons.
MUD PUMPS .....	3 x Continental Emsco FC-2200hp pumps – 7500psi
HP MUD SYSTEMS .....	Rated for 7,500psi
SOLIDS CONTROL.....	4 x Axiom AX 1 Shale Shakers

### WELL CONTROL EQUIPMENT

BOP STACKS .....	5 ram cavity 18-3/4", 15000 psi, Cameron TL BOP with ST lock comprising:- LPR 3-1/2" to 6-5/8", MPR 3-1/2" to 6-5/8", UPR 3-1/2" to 6-5/8", 28" Casing shear rams, 18" CDVS Blind Shear rams. 2 Annulars, one in LMRP and one in BOP
BOP CONTROL SYSTEM .....	Cameron MKIII Multiplex BOP Control System. <i>Features:</i> Acoustic and API 17H ROV Intervention Secondary Control Systems Emergency Disconnect, Autoshear & Deadman (AMF) Emergency Control Systems
RISER .....	Cameron/Subsea Services RF, 65ft, 21" OD, Flanged Riser Telescoping Joint with 55ft Stroke and Remotely Operated Pull-in System (ROPS) (providing efficient hands free connection and disconnection of colflexip hoses).
RISER TENSIONER.....	8 x 160kip (1287kips total), Hydralift/NOV MRT Wireline, 50ft wire travel
CHOKE MANIFOLD .....	Cameron 3-1/16" 15,000psi Choke Manifold <i>Features:</i> 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 Vetco – KFDS–CSO 500 <i>Features:</i> Designed for 60.5" Rotary Table, Diverter Housing is 59" ID 22-1/2" Packer ID, Pressure Rating of 500psi in Complete Shut Off (CSO)
TREE STORAGE & HANDLING ....	3 x Houlder XMT bi-directional skids 120mT Capacity 1 x Mercur Solutions XMT carrier 70mT Capacity
MOONPOOL.....	84ft x 41ft (25.60m x 12.48m)

### POWER MANAGEMENT & MACHINERY

MAIN POWER .....	9 x Wartsila 9 16V24. engines rated at 3.6MW driving 9 x Siemens generators at 3.5MW
EMERGENCY POWER.....	All 9 Main engines classed as Emergency
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.....	3751.5 m <sup>3</sup> / 23596 bbl	LIQUID MUD.....	Active: 630 m <sup>3</sup> / 3962 bbl Reserve: 396 m <sup>3</sup> / 2490 bbl Total: 1026 m <sup>3</sup> / 6453 bbl
BASE OIL.....	260 m <sup>3</sup> / 1635 bbl	BULK CEMENT .....	236.5 m <sup>3</sup> (4 tanks) / 1487 bbl
BRINE .....	640 m <sup>3</sup> / 4025 bbl	BARITE/BENTONITE	236.5 (4 tanks) m <sup>3</sup> / 1487 bbl
DRILL WATER.....	903.5 m <sup>3</sup> / 5682 bbl	SACK STORAGE....	2,000 sacks
POTABLE WATER ....	520 m <sup>3</sup> / 3270 bbl		

### STATION KEEPING – PROPULSION SYSTEMS

THRUSTERS .....	6 / Rolls Royce (Kamewa) Aqua Master / Azimuth UUC 5001 / 3.3kW
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, 1 x taut wire
MOORING SYSTEMS .....	8 x Vryhof Stevpris Mk6 Anchors, Vicinay 76mm R5 chain - 1800m onboard capable of 2300m

### CRANES

CRANES.....	2 x Hydralift Knuckle Boom Cranes, OKMCVC 4000 1 fall: SWL 17mT @ 45m radius 5 fall: SWL 85mT @ 17m radius
BOP HANDLING.....	BOP overhead gantry crane with 2 x 160mT main winches and 2 x 30mT auxiliary winches. 1 x BOP skid rated to 320mT with 100mT XMT in-sert.
RISER HANDLING.....	Port Knuckle Boom made up to riser yoke rated to 15mT.
TUBULAR HANDLING.....	NOV Pipehandling Knuckle Boom Crane

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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.