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COSLPromoter



COSL Drilling Europe AS

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General discription

The COSLPromoter is a semi-submersible drilling rig designed to operate in water depths up to 750 meter. The unit is designed for North Sea/ Norwegian Sea and world – wide use in harsh environments. Station keeping is maintained by an 8 line mooring system or by dynamic position mode maintained by 6 fixed pitch, variable speed thrusters (DP3).

- Hull GM4000 design built at Yantai Raffles Shipyard, China
- Drilling structure and mud module Delivered by National Oilwell Varco/ Nymo, Norway

Classification

- DNV +1A1 Column Stabilized Drilling Unit (N) and Well Intervention Unit (N)
- DRILL (N)
- DYNPOS-AUTRO
- POSMOOR-ATA
- CRANE
- HELDK-SH
- E0
- ECO

Main dimensions

- Overall length 104,5 m
- Overall width 65 m
- Main deck length 81,5 m
- Main deck width 65 m
- Helideck (diameter) 27,75 m
- Moonpool dimensions 21,95 m x 7 m

Draft

- Operating draft 17,75 m
- Survival draft 15,75 m
- Transit draft 9,2 m

Displacement

- Operating displacement 36400 mT
- Survival displacement 34700 mT
- Transit displacement 26700 mT

Rated water depth

70 to 750 m. Currently equipped for 500 m

Station keeping

- DP system Kongsberg Maritime SDP-22 + SDP-12 back up
- Thrusters 6 x Wärtsila LIPS type FS3500-536 NU
- Thruster motors 6 x 3800 kW Siemens H-Compact plus. 0-720 RPM
- Mooring 4 double Rolls Royce winches for 90 mm wire

Machinery

- Engines 6 x Wärtsila Vasa 12V32, 5110 kW ea, 720 RPM
- Generators 6 x Siemens 1DK4536-8AL06-2, 4840 kW ea, 6.6 kV 60 Hz
- Emergency power 1190 kW Mitsubishi S12R-MPTA.
1425 kVA Newage Stamford PM734D
- Power distribution 690V essential, 440V, 230V

Accommodation

120 single bed cabins

Safety equipment

- Lifeboats 4 x 60 persons. Free fall lifeboats
- Mob boats 2 x Watercraft WHFRB 6.50 DJ
- Liferafts 4 x 30 persons

Storage capacities

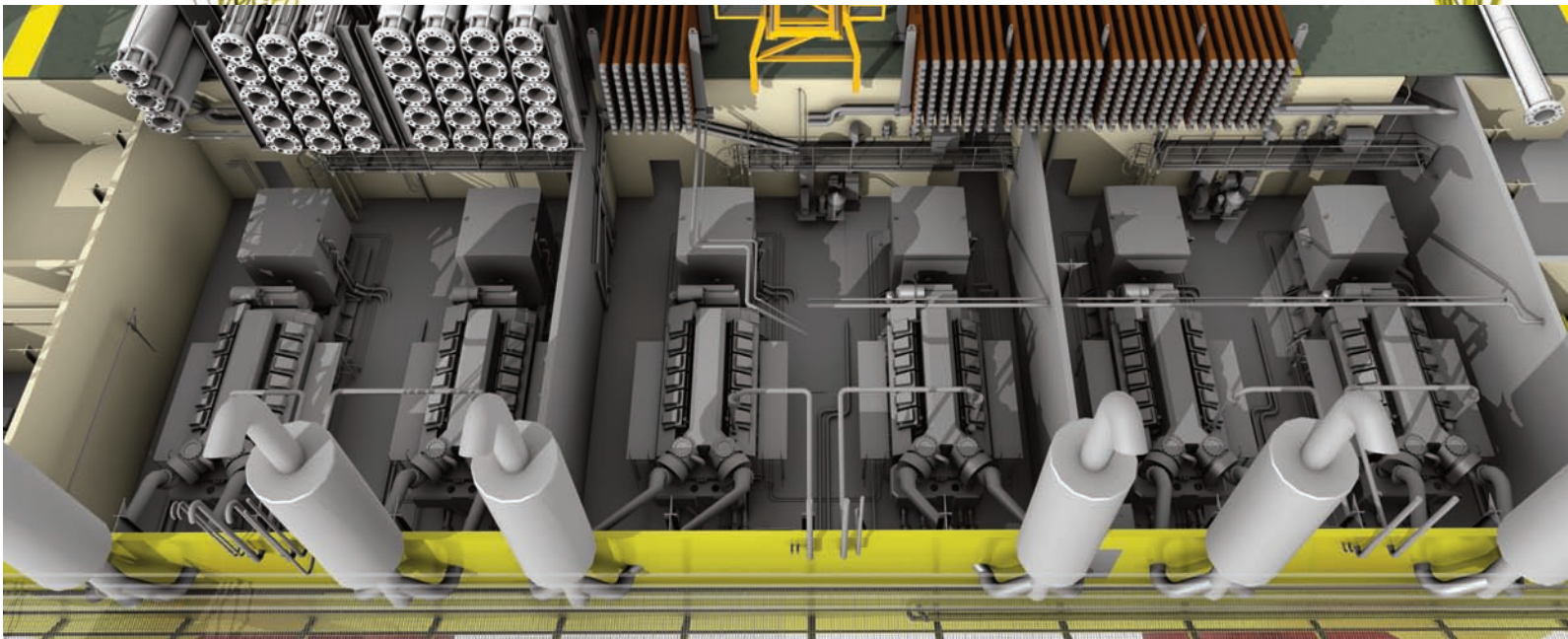
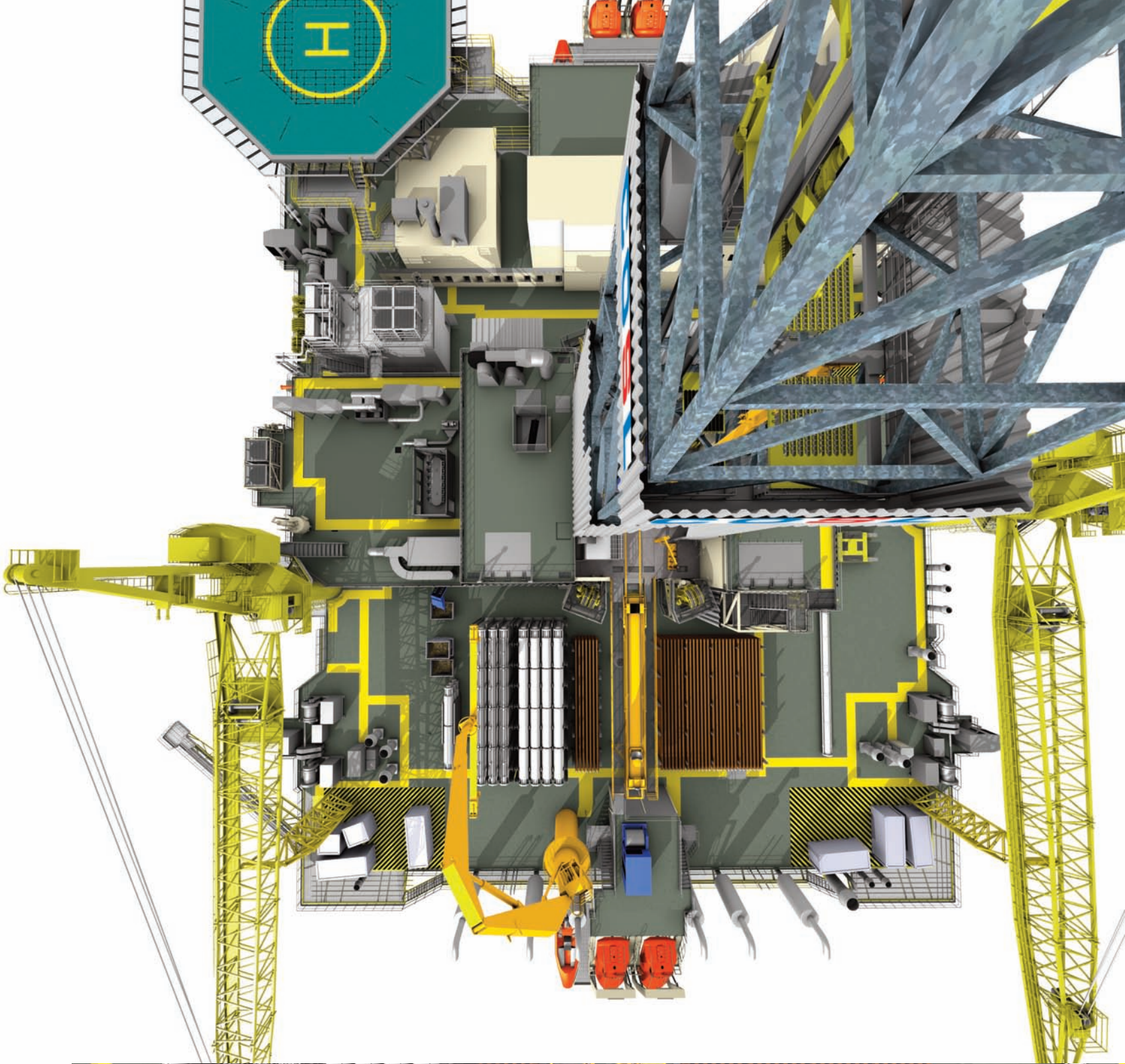
- Ballast water 13210 m³
- Fuel
 - Pontoons 3208 m³
 - Surface 260 m³
- Drilling water 2038 m³
- Potable water 600 m³
- Active liquid mud (surface) 460 m³
- Reserve liquid mud (column) 400 m³
- Bulk Bentonite/Barite 240 m³
- Bulk cement 240 m³
- Base oil storage 814 m³
- Brine storage 1526 m³

Variable load

4000 mT

Transit speed

10 knots



Drilling systems

Derrick

- Hook load capacity 650 ton (590 mT)
- Base 35 ft x 35 ft (10,7 m x 10,7 m)
- Height (internal) 160 ft (48,8 m)
- Cladding 0-14 m. 4,5 m at fingerbord level
- Racking capacity 7500 m, 270 std 5 7/8" DP + 12 std 9 1/2" DC. Belly board installed

Drawworks

NOV AHD-4600. 4600 hp active heave compensated drawworks

Topdrive

NOV HPS 650-E-AC-SG. 650 ton (590 mT). 1000 hp.
Max cont. torque: 55250 ft.lbs at 0-96 RPM. Max 180 RPM.
Retractable dolly

Rotary

National D-605. 60,5" opening

Traveling/ crown block

60" sheaves for 12 lines.

Drillers control cabin

NOV Cyberbase system with 2 operating stations

Pipehandling system

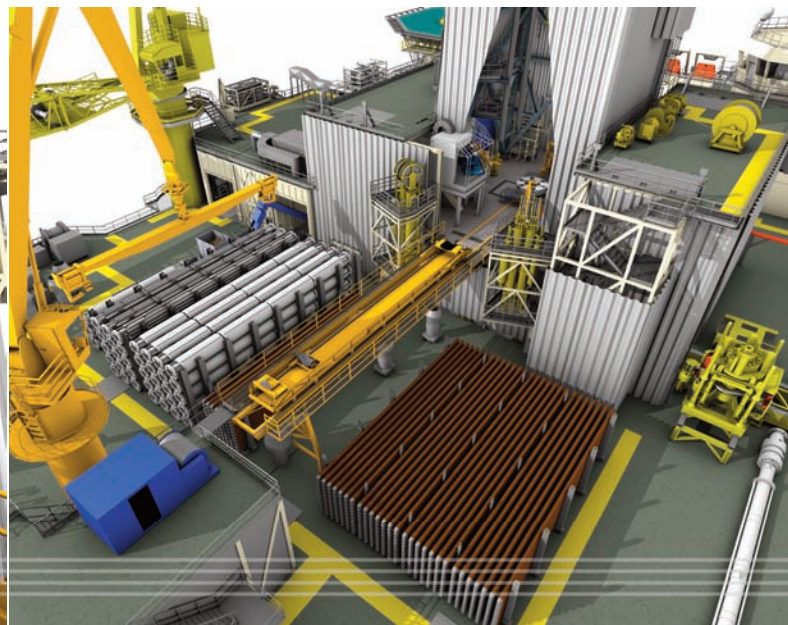
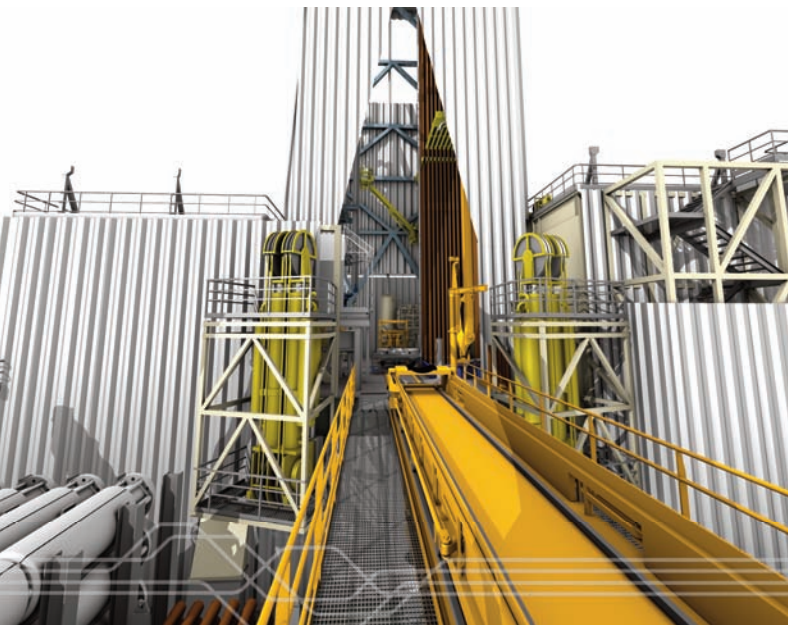
- Piperacker NOV hydraracker HR-III-XY
- Iron roughneck NOV MPT-200 with mud bucket. 200 KNm break out torque.
Range: 2 7/8" – 9 3/4"
- Catwalk machine NOV PR25-60LS with tail in arm. Fully equipped for tubular and riser handling
- Manipulator arm NOV DFMA-P-2500. 3 1/2" – 9 5/8" gripper head and 47" riser handling head

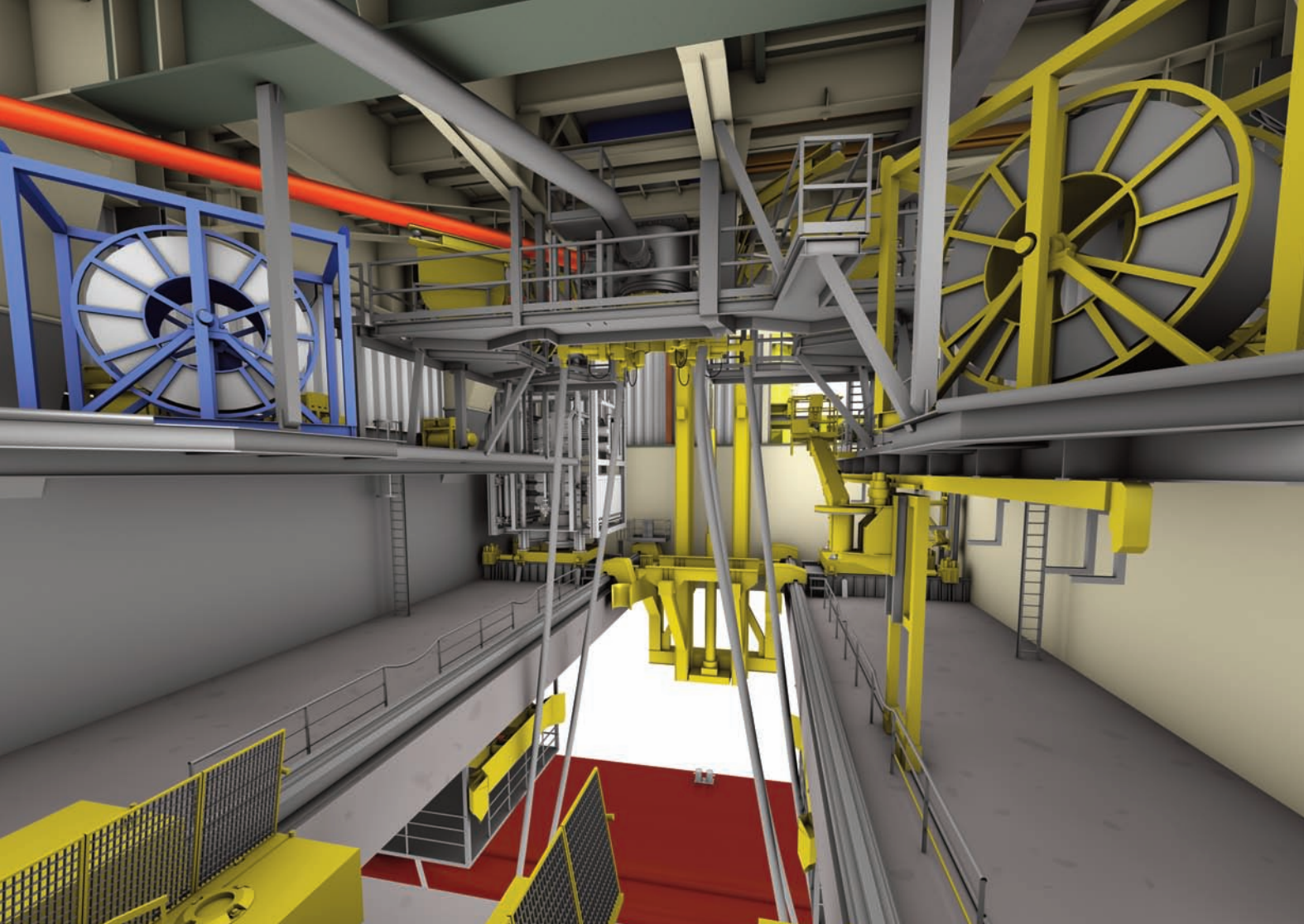
Crane

- Platform crane 2 ea NOV Molde crane OC3500LE. Capacity: 80 mT at 20 m.
Max radius: 50 m
- Pipehandler crane NOV Knuckle boom crane with 20" and 30" yoke + riser yoke
Capacity: 24,2 mT at 17,7 m. Max radius: 26,6 m.

Mud treatment and supply

- Mud pumps 3 x NOV HEX 240 pumps. 2540 hp, 3915 l/min, 7500 psi each.
Fixed liner size
- Shale shakers 5 x VSM 300 Thule shakers
- Degasser M-I Swaco CD 1400 degasser
- Mud mixing NOV fully automated mixing system.
Sack slitting machine and big bag slitting machine





Sub sea equipment

BOP/ X-mas tree handling

- 2 x 60 mT overhead crane. STB of Moonpool
- 300 mT BOP elevator system/ main skid
- 300 mT BOP skid. Designed to carry the BOP from parked position to the BOP elevator/ main skid
- 300 mT LMRP skid. Designed to carry the LMRP/ X-mas tree from parked position to the BOP elevator/ main skid
- 100 mT X-mas tree cantilever transport/ skidding system
- 420 mT riser hang-off trolley
- 2 x 15 mT overhead crane. PS of Moonpool

BOP

- BOP stack
 - Upper ram body
 - Lower ram body
 - Annular preventer
 - Hydraulic control
- Shaffer NXT.18 ¾", 15K
 Extended double ram (shear seal & CSG shear) with 22" operators, 5K Poslock operators
 Triple rams with 14" operators, Ultralock II
 Shaffer, Wedge Cover Spherical, 10K
 Sub Sea Pods for all functions. Alternative acoustic and ROV controls for critical functions. 5K Booster for shear rams.
 Hydraulic fluid return to surface

Riser

- Shaffer 21" FT-E Riser system
- 50 ft joints
- 2 x 3" ID chokelines, 4" boost line, 2 x 2,3" ID hydraulic return lines
- 500 m riser (50% with buoyancy)

