

ELDORADO DRILLING · TECHNICAL SPECIFICATIONS

Tungsten Explorer

6TH GEN ULTRA-DEEPWATER DRILLSHIP

A DSME 12,000 design drillship built by Daewoo Shipbuilding & Marine Engineering and in service since 2013 — designed for 12,000 ft of water depth (11,000 ft outfitted), with 40,000 ft drilling depth and DP3 station keeping.

TECHNICAL SPECIFICATIONS

REV. OCTOBER 2026

FLAG · BAHAMAS

DNV 1A · DPS (3)

SINCE 2013

**12,000**^{FT}

WATER DEPTH (DESIGNED)

40,000^{FT}

MAX DRILLING DEPTH

2,800,000^{LBS}

STATIC HOOKLOAD

781^{FT}

HULL LENGTH

20,000^{MT}

VARIABLE DECK LOAD

200^{POB}

ACCOMMODATION

Vessel & Capacities

01

01 GENERAL INFORMATION

RIG DESIGN	DSME 12,000
YEAR ENTERED SERVICE	2013
BUILDER	Daewoo Shipbuilding & Marine Engineering
CLASS	DNV 1A Ship-Shaped Drilling Unit BIS DPS (3)
FLAG	Bahamas

02 GENERAL SPECIFICATION

HULL LENGTH	781 ft
HULL BREADTH	138 ft
HULL DEPTH	62 ft
MOON POOL	82 ft × 41 ft
ACCOMMODATION	200 POB
HELIDECK	CAP437, 75 ft Octagon, Sikorsky S-61N, S-92 compatible. 11.8 MT load capacity

03 OPERATIONAL CAPABILITIES

MAX WATER DEPTH	12,000 ft designed / 11,000 ft outfitted
MIN WATER DEPTH	1,150 ft
TRANSIT DRAFT	27.8 ft
MAX DRILLING DEPTH	40,000 ft
VARIABLE DECK LOAD	20,000 MT
MAXIMUM SETBACK	1,000 MT

04 STORAGE CAPACITIES

DIESEL	59,628 bbls
DRILL WATER	20,033 bbls
POTABLE WATER	8,628 bbls
BULK MATERIAL	28,250 ft ³ mud + cement
BASE OIL	5,118 bbls
BRINE	5,118 bbls
ACTIVE MUD	8,883 bbls / 10,561 reserve
TRIP TANK	137 bbls
SACK STORE	10,000 sacks

05 MUD SYSTEM

WORKING PRESSURE	7,500 psi
MUD PUMPS	4 × AKMH Wirth model TPK-7½ × 14 / 2200 CL, gear driven, 2,200 hp 7,500 psi, GE AC motor drive
SHAKERS	8 × DP 626 dual deck shakers 2 configured as mud cleaners with 4 × 20" cones each

Handling & Well Control

02

06 TUBULAR HANDLING

PIPE FEEDING MACHINE	1 × AKMH Tubular Feeding Machine, SWL 15 MT, 2 $\frac{7}{8}$ " to 30", suitable for handling 45 ft tubular
PIPE RACKERS	2 × AKMH Bridge Racking cranes, lower guiding arms, each 15 MT, 3 $\frac{1}{2}$ " to 13 $\frac{5}{8}$ "
RISER FEEDING MACHINE	1 × AKMH Riser Feeding Machine, SWL 40 MT, 2 $\frac{7}{8}$ " to 54"
MANIPULATOR ARM	1 × AKMH Drill Floor Manipulator arm, 3 $\frac{1}{2}$ " to 60"
PIPE DECK HANDLING CRANE	1 × AKMH PDPH, SWL 4.5 MT to 9 MT, 2 $\frac{7}{8}$ " to 20"
PIPE HANDLING AUTOMATION	AKMH

07 POWER GENERATION

MAIN ENGINES	6 × STX MAN 14V32/40 diesel engines, 7,000 kW @ 720 rpm c/w HHI 8,437 kVA AC alternators
EMERGENCY ENGINES	1 × STX MAN B&W diesel engine c/w HHI 2,625 kVA AC alternator

08 HANDLING SYSTEMS

DECK CRANES	3 × Liebherr BOS 4200-85 — 85 mt max load at 9 m radius & 32.7 mt at 46 m radius (static); auxiliary hook 15 mt max load at 51 m radius 1 × Liebherr BOS 4200-50 — 50 mt max load at 9 m radius & 34.2 mt at 46 m radius (static); auxiliary hook 15 mt max load at 51 m radius
RISER GANTRY CRANE	1 × AKMH Riser Gantry Crane, SWL 40 MT
BOP HANDLING	1 × AKMH BOP Trolley, SWL 500 MT c/w 1000 MT hang off adapter plate for riser hang-off 2 × AKMH LMRP Overhead Gantry Crane, each SWL 75 MT
XMAS TREE HANDLING	1 × AKMH Xmas Tree Trolley, SWL 150 MT 2 × AKMH Xmas Tree Overhead Gantry Crane, each SWL 75 MT

09 WELL CONTROL EQUIPMENT

BLOWOUT PREVENTER	1 × Cameron BOP, 18$\frac{3}{4}$" 15,000 psi, 6 × ram cavities (3 × Type TL doubles) 2 × Cameron Type DL, 18$\frac{3}{4}$", 10,000 psi annular preventer
DIVERTER	1 × Cameron 75 $\frac{1}{2}$ " 500 psi with 16" diverter lines, 16" flow line, 16" mud gas separator line, 8" trip tank line, 4" fill up line. 21" nominal bore

TUNGSTEN EXPLORER • TECHNICAL SPECIFICATIONS

Drilling & Riser

03

10 DRILLING PACKAGE

DERRICK	Aker Kvaerner Maritime Hydraulics Riser (AKMH) Single Pyramid Dynamic Derrick, 46 ft x 52 ft base x 210 ft clear working height, API-4F 3rd Edition
HOOKLOAD CAPACITY	2.8 million lbs static hookload capacity
RACKING CAPACITY	– 6$\frac{5}{8}$" drill pipe — 368 stands x 135 ft (49,680 ft) – 9$\frac{1}{2}$" drill collars — 8 stands x 135 ft (992 ft) – 13$\frac{5}{8}$" casing — 35 stands x 135 ft (4,725 ft) or – 9$\frac{5}{8}$" casing — 54 stands x 135 ft (7,290 ft) or – 7" liner — 91 stands x 135 ft (12,285 ft)
DRAWWORKS	1 x AKMH Wirth GH 9000-EG-01-AC, electric motor driven 9,000 hp
ROTARY TABLE	1 x AKMH Wirth RTSS 75 $\frac{1}{2}$ ", hydraulically driven, 20 rpm, 1,500 ton capacity
IRON ROUGHNECK	1 x AKMH 1899 MKII Iron Roughneck for well center operations, 2 $\frac{3}{8}$ " to 9 $\frac{3}{4}$ "
TOPDRIVE	1 x AKMH model MDDM-1250-AC-2M, 1,250 tons hoisting capacity, 945 tons drilling load path capacity, 101,200 ft-lbs max continuous torque, 151,300 ft-lbs intermittent, 0–282 max rpm, 2 x 1150 hp AC motors

11 RISER EQUIPMENT

RISER	21" Cameron Load King riser 3.5 with: – 15k psi – 4.5" ID choke & kill line – 5k psi – 4" ID booster line – 2 x 5k psi – 3.5" ID hydraulic lines
RISER TENSIONING	8 x AKMH dual wire line tensioner, 3,600,000 lbs combined capacity with a maximum net effective stroke of 12.5 ft
MOTION COMPENSATORS	– 1 x AKMH 680-1270-25 Crown Mounted Compensator, rated at 1,270 MT / 1,400 tons (static) and 680 MT / 750 tons (compensation) with a 25 ft stroke – 1 x AKMH Active Heave Compensator, rated at 20 MT x 2 with a 25 ft stroke, upgraded to AHC WD (while drilling)

12 OFFLINE CAPABILITIES

OFFLINE STAND BUILDING	1 x AKMH stand building arm for offline tubular handling, lifting capacity of 6.4 MT, 15 ft to 45 ft tubular, 3 $\frac{1}{2}$ " to 13 $\frac{5}{8}$ "
OFFLINE ROUGHNECK	1 x AKMH 'Torque Master' for tubular range 2 $\frac{7}{8}$ " to 20" for offline operations
OFFLINE MOUSEHOLES	2 x AKMH hydraulic mouseholes for up to 13 $\frac{5}{8}$ "
BUCKING UNIT	McCoy Clincher 3 $\frac{1}{2}$ " to 17 $\frac{1}{2}$ " pipe range – Make-up torque – 160,000 lb-ft – Break-up torque – 190,000 lb-ft

13 STATION KEEPING & PROPULSION

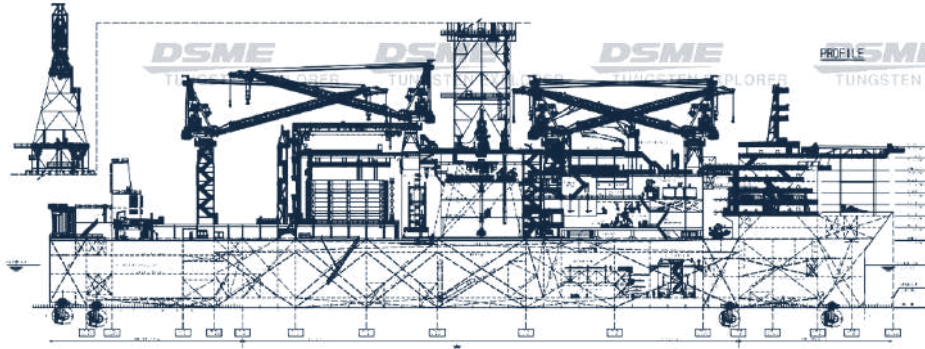
DP CONTROL SYSTEM	DPS33, GE Converteam, Triplex DP + IJS. 3 x independent GNSS + 2 x independent acoustic systems
THRUSTERS	6 x 5.5 MW Rolls Royce Ulstein Aquamaster UUC 455 Azimuth (100 mt thrust nominal), variable speed, fixed pitch, fully azimuthing

General Arrangement

04

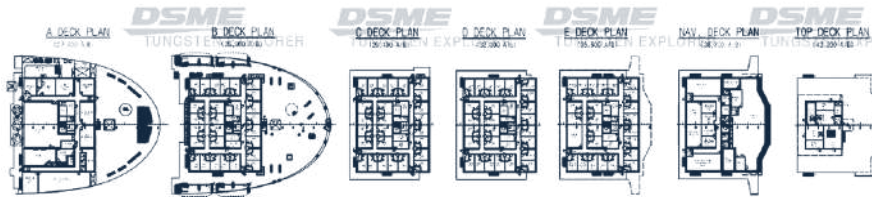
PROFILE

SIDE ELEVATION



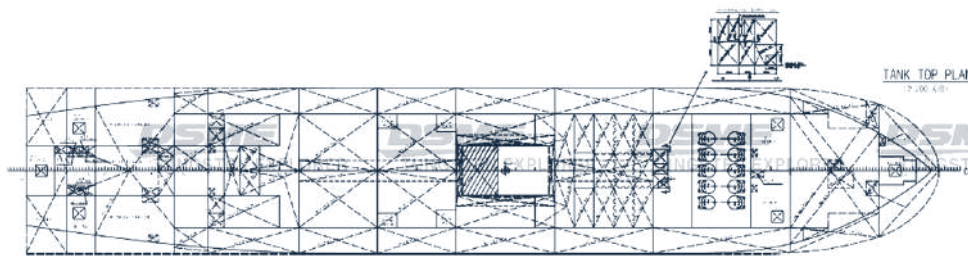
DECK PLANS

A • B • C • D • E • NAV • TOP



TANK TOP PLAN

PLAN VIEW



GET IN TOUCH

**For more information on
Tungsten Explorer**

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These specifications are intended for general reference purpose only and shall not be contractually binding. Contractor reserves the right to change these specifications at any time without prior notice. All equipment shall be operated and maintained in line with Eldorado Drilling's guidelines and within the limits of OEM specifications.