



Deepwater Geotechnical Vessel

Bluestone Offshore's Greatship Maya is a dynamically positioned (IMO Class 2) geotechnical vessel, capable of operating worldwide in water depths of up to 1800m. The vessel holds a valid Special Purpose Ship Safety Certificate according to the IMO SPS Code 2008.

This newly built vessel classed with DNV, is fitted with modern technology in in-situ testing and sampling tools.

The drilling rig system is designed and built to industry standards, with unique customised features to meet the practical balance of safety and efficiency.

The main capabilities of the vessel are:

- ⊕ Performing geotechnical or geological surveys
- ⊕ Drilling deep boreholes at deep water depths
- ⊕ Collecting high-quality, undisturbed soil samples
- ⊕ Performing real time in-situ tests, in downhole or seabed mode
- ⊕ Performing various geotechnical laboratory tests onboard
- ⊕ Drilling deep pilot hole for shallow gas detection
- ⊕ Providing ideal platform for ROV Construction Support works



Vessel Name	Greatship Maya	Classification Society	Det Norske Veritas (DNV)
Builder / Year	Keppel Singmarine, Singapore / 2009	Design	Marin Teknikk AS, Norway
Flag / Port of Registry	Singapore	Speed / Endurance	13 knots / 45 days
IMO Number	9463499	Operational Water Depth	1,800 m

<p>Ships Particulars</p> <p>Length Overall 93.60 m Breadth Moulded 19.70 m Depth Moulded 7.85 m Max. Loaded Draught 6.3 m Class Notation DNV: +1A1, E0, SF, DYNPOS AUTC Clean, Comf-V(3), Supply vessel, LFL*, DK(+), hl(2,5/2,8) Naut OSV(A)</p> <p>GRT 4765 tons NRT 1430 tons Deadweight 4600 tons Official Number 394878 Call sign 9V7820</p> <p>Propulsion & Machinery</p> <p>Main Engines 4x 2133 kW each Total: 8532 kW Yanmar 8N280L-EV</p> <p>Propellers 2 x steerable rotatable (360 deg) thrusters, 2600kW, 2800mm (dia)</p> <p>Bow Thrusters 3 x 1050 kW / 900rpm CPP, Tunnel Thrusters</p> <p>Auxiliary Engines</p> <p>Emergency Generators 1 x 189 kW Supply System 690 V, 60Hz</p> <p>Accommodation</p> <p>1 Man Cabin 11 (each w/private WC) 1 Man Cabin (Client) 5 (each w/private WC) 2 Man Cabin 25 (each w/private WC) Hospital Standard medical facility with full-time medic on standby 24hrs. Recreation Rooms Gymnasium, Reception Area, Lounge, Dayroom, Smoking Room & Mess room Additional Work Rooms Workshop for Instrument & Electrical Total Accommodation 66 Berths, fully air-conditioned</p> <p>Deck Machinery</p> <p>Deck Cranes 2 x 5 tons @ 15m radius, Knuckle Jib 1 x 10 tons @ 5m radius, Telescopic Palfinger crane Tugger Winches 2 x 15 tons Capstans 2 x 10 tons Moon pool 7m x 7m</p> <p>Dynamic Positioning System</p> <p>Gyro Compass 3 units DGPS 2 units Motion reference 2 units Underwater reference 1 x Sonardyne / Hipap 500</p> <p>Cargo Capacities</p> <p>Deck Strength 5 – 10T / m² Potable / Fresh Water 1140 m³ Fuel Oil 1140 m³ Ballast 1530 m³ Drill Water 1310 m³</p> <p>Discharge</p> <p>Fresh Water 1 x 0 – 200 m³ / hr at 9 bar Fuel Oil 2 x 0 – 200 m³ / hr at 9 bar</p> <p>Anchoring</p> <p>Anchors 2 x Min 10MT Winches 2 x electric driven anchor/mooring</p>	<p>Drilling System</p> <p>Derrick Bluestone 2000 Height: 32 m Pulling Capacity: 100 MT</p> <p>Top Drive Rotary drill F150 • Torque: 23,000 ft.lb • Speed: 80 – 100 rpm</p> <p>Drawworks Winch Line Pull 35 MT</p> <p>Heave Compensation In-line Drill String Compensator 3.5 m stroke. Capacity: 80 MT</p> <p>Heavy Load Winch Single Drum Hydraulic Winch 60 MT</p> <p>Drill String</p> <p>Drill String Length 1800m (approx.)</p> <p>Drill Pipes API 5-1/2" with 5-1/2" FH Tool Joint</p> <p>Drill Collar API 7" with 5-1/2" FH Tool Joint</p> <p>Seabed Frame</p> <p>Dimension 3 m (L) x 3 m (W) x 1.95 m (H)</p> <p>Skirt 0.15 m</p> <p>Features Tilt Meter Current Meter Shear Ram</p> <p>Mud System</p> <p>Mud Pump 2 x GD 5-1/2 x 5-1/2 Triplex 300 gpm</p> <p>Mixing Pump Mission Magnum Horizontal centrifugal pump</p> <p>Mud Tank 2 x 30 m³</p> <p>Engineering Data Processing</p> <p>Borehole Log Generation</p> <p>Design Parameters Generation</p> <p>Shallow Foundation Analysis</p> <p>Deep Foundation Analysis</p>	<p>Down-hole Sampling and Testing</p> <p>Rock Coring PQ or HQ size selection • Variety of bits onboard • 1 x Longyear HQ3 • 2 x API Core Barrel</p> <p>WISON-APB Maximum of 3 m stroke • Piston Sampler • WIP Sampler • Piezocone Penetration Test • In-situ Vane Shear Test</p> <p>Seabed Sampling and Testing</p> <p>Electrical Wheel Drive Method</p> <p>ROSON Rated to 40m push @2000 WD • Piezocone Penetration Test • In-situ Vane Shear Test • Deepwater Sampler (DWS) 4" diameter piston corer</p> <p>Free Fall Control Method</p> <p>Box Corer 600cm² or 1000 cm² Grab Sampler 250cm² or 1000 cm² Gravity Piston Corer 6 – 9 m, ø101.6mm Vibro Corer 3 – 6 m, ø101.6mm</p> <p>Geotechnical Laboratory</p> <p>1 x Wet Laboratory (20FT Container) 1 x Dry Laboratory (12FT Container)</p> <p>Classification / Physical Property Tests</p> <p>Water Content Soil Unit Weight Grain Size Distribution Organic Content Carbonate Content Photography of Samples</p> <p>Index Strength Test</p> <p>Fall Cone Max 200 kPa Motorvane Set of 4 springs Pocket Penetrometer Max 430 kPa Torvane Max 250 kPa UU Triaxial 2 x 3500 kPa cell</p> <p>Options</p> <p>1 x MSCL Laboratory (20FT Container) Liquid and plastic limits (clay samples) Maximum and minimum density (sand samples) Unit Weight of solid particles Point Load Test CRSC Oedometer</p>
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