



## About the vessel

MMA Vigilant is a versatile and flexible multi-purpose support vessel, capable of light construction work, ROV support and project tasks, as well as standard platform and drilling rig supply.

The vessel has a proven track record in subsea geotechnical work in East Africa, including working with Benthic's PROD system in over 2,000m of water depth, deploying current meters and AUV systems and operating work class ROVs.

## MMA Vigilant

Multipurpose Support Vessel



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| General          |                                                                                 | Dimensions        |                                                                           |
|------------------|---------------------------------------------------------------------------------|-------------------|---------------------------------------------------------------------------|
| Official No      | 397618                                                                          | LOA               | 83.6 m                                                                    |
| Call Sign        | 9V9816                                                                          | Breadth - moulded | 20 m                                                                      |
| IMO No           | 9651931                                                                         | Depth - moulded   | 9 m                                                                       |
| Year Built       | 2013                                                                            | Draft             | 7.4 m                                                                     |
| Port of Registry | Singapore                                                                       | GRT               | 4,268 T                                                                   |
| Flag             | Singapore                                                                       | NRT               | 1,811 T                                                                   |
| Class            | American Bureau of Shipping                                                     | Deadweight        | 5,187 T                                                                   |
| Notation         | ✱A1, Offshore Support Vessel, Fire Fighting Vessel Class 1, ✱AMS, ✱DPS-2, ✱ACCU | Free Deck Area    | 950 m <sup>2</sup> (incl. of Mezzanine Deck & underneath Crane Boom Area) |
| MMSI             | 563580000                                                                       | Deck Strength     | 7.5 T/m <sup>2</sup>                                                      |

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# MMA Vigilant

## Multipurpose Support Vessel



| Performance        |       |       |
|--------------------|-------|-------|
| BHP                | BHP   | 8,047 |
| Speed - Maximum    | Knots | 14    |
| Speed - Economical | Knots | 10    |

| Tank Capacity       |                |                                    |
|---------------------|----------------|------------------------------------|
| Fuel Oil            | m <sup>3</sup> | 1,350                              |
| Fresh Water         | m <sup>3</sup> | 893                                |
| Sewage              | m <sup>3</sup> | 15.2                               |
| Foam                | m <sup>3</sup> | 23.2                               |
| Ballast Water       | m <sup>3</sup> | 2,737                              |
| Liquid Mud          | m <sup>3</sup> | 1,050                              |
| Cement              | m <sup>3</sup> | 300                                |
| Dispersant          | m <sup>3</sup> | 23.2                               |
| Dry Bulk            | m <sup>3</sup> | 300                                |
| Methanol            | m <sup>3</sup> | NA                                 |
| Glycol              | m <sup>3</sup> | NA                                 |
| Brine               | m <sup>3</sup> | 1,050                              |
| Drill Water         | m <sup>3</sup> | 2,737                              |
| Base Oil            | m <sup>3</sup> | 141                                |
| Roll Reduction Tank | m <sup>3</sup> | 332.50 (incl. in Ballast Capacity) |

| Discharge Rates       |                                       |  |
|-----------------------|---------------------------------------|--|
| Fuel Oil              | 2 x 100 m <sup>3</sup> /h @ 92 m head |  |
| Fresh Water           | 1 x 100 m <sup>3</sup> /h @ 92 m head |  |
| Ballast / Drill Water | 2 x 100 m <sup>3</sup> /h @ 92 m head |  |
| Potable Water         | 1 x 100 m <sup>3</sup> /h @ 92 m head |  |
| Dry Bulk              | 2 x 60 m <sup>3</sup> /hr @ 5.5 bar   |  |
| Liquid Mud / Brine    | 2 x 75 m <sup>3</sup> /h @ 245 m head |  |
| Glycol                | NA                                    |  |
| Base Oil              | 2 x 100 m <sup>3</sup> /h @ 90 m head |  |
| Methanol              | NA                                    |  |

| Machinery / Propulsion |                                        |  |
|------------------------|----------------------------------------|--|
| Main Engine            | 2 x 3,000 kW Caterpillar-Mak 9M25C     |  |
| Bow Thruster           | 2 x 800 kW Tunnel, 12 T lateral thrust |  |
| Stern Thruster         | 2 x 680 kW Tunnel, 10 T lateral thrust |  |
| Generator              | 3 x Aux 500 kW & 2 x 1,800 kW Shaft    |  |
| Emergency Generator    | 1 x 117 kW                             |  |
| Propulsion             | 2 x Berg Propulsion - CPP              |  |
| Nitrogen Generator     | NA                                     |  |

| Deck Equipment  |                                                                               |  |
|-----------------|-------------------------------------------------------------------------------|--|
| Deck Crane      | 1 x AHC - knuckle boom electro-hydraulic (50mt @ 10m, 10mt @ 18m, 20mt @ 10m) |  |
| Capstan         | 2 x 5 tonne Cargotec MG-HVC-0540, E-Hydraulic                                 |  |
| Tugger Winch    | 2 x 10 T @ 0-15m/min (1st Layer)                                              |  |
| Wire Capacity   | 26 mm x 200 m                                                                 |  |
| Brake Holding   | 15 T (static, 1st Layer)                                                      |  |
| Provision Crane | 1 x McGregor 4.0T crane                                                       |  |

| Rescue & Fire Fighting |                                      |  |
|------------------------|--------------------------------------|--|
| FRC Type               | 1 x 6 person Vanguard VG6 - 0FRK FRC |  |
| Dacon Scoop            | NA                                   |  |
| FiFi Class             | Class 1                              |  |
| Fire Monitor           | 2 x 1,200 m <sup>3</sup> /hr         |  |
| Fire Pump              | 2 x 2,016 m <sup>3</sup> /hr         |  |

| Dynamic Positioning |                                 |  |
|---------------------|---------------------------------|--|
| DP                  | MT Bridgemate DP2               |  |
| DGPS - Quantity     | 2 x Seastar DGPS                |  |
| HIPAP               | 1 x Sonardyne Ranger 2          |  |
| Joystick - Type     | Bridgemate Compact Portable IJS |  |
| Laser - Type        | 1 Cyscan                        |  |
| Tautwire System     | 1 x Ashtead Lightweight TWS     |  |

| Accommodation        |        |  |
|----------------------|--------|--|
| Cabin (4 Berth)      | Qty 8  |  |
| Cabin (2 Berth)      | 8      |  |
| Cabin (Single Berth) | 12     |  |
| Total Accommodation  | 60 pax |  |
| Conference Room      | 1      |  |
| Office               | Nil    |  |
| Day Room             | 1      |  |
| Hospital             | 1      |  |

| Communication Equipment    |                    |       |
|----------------------------|--------------------|-------|
| Navtex Receiver - Quantity |                    | Qty 1 |
| AIS                        |                    | 1     |
| Watch Alarm                |                    | 1     |
| SSB                        |                    | 1     |
| Intercom                   |                    | 1     |
| Inmarsat-C                 |                    | 2     |
| EPIRB                      |                    | 1     |
| GMDSS VHF Radio (MF/HF)    | 2 x VHF, 1 x MF/HF |       |
| GMDSS Handheld VHF         |                    | 4     |
| VSAT                       |                    | 1     |

| Navigation Equipment       |                      |       |
|----------------------------|----------------------|-------|
| Magnetic Compass           |                      | Qty 1 |
| Gyro Compass c/w Autopilot | 3 Gyro, 1 Auto Pilot |       |
| GPS Navigator              |                      | 1     |
| Radar                      |                      | 2     |
| Speed Log                  |                      | 1     |
| ECDIS                      |                      | Nil   |

| Other Equipment            |                              |   |
|----------------------------|------------------------------|---|
| Sewage Treatment Unit      |                              | 1 |
| Water Maker - Capacity     | 18,000 litres/day (18 T/day) |   |
| Waste Compactor - Quantity |                              | 1 |