## ANCHOR HANDLING TUG
### Technical Specification Sheet

**Vessel Name:** ALPHA FALÇÃO

<table>
<thead>
<tr>
<th>Name</th>
<th>ALPHA FALÇÃO</th>
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<tbody>
<tr>
<td>Class</td>
<td>BV</td>
</tr>
<tr>
<td>Year Built</td>
<td>2008</td>
</tr>
<tr>
<td>Flag</td>
<td>Singapore</td>
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</tbody>
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### Principal Dimensions
- Length Overall: 40.00 m
- Depth Moulded: 4.60 m
- Gross Tonnage: 499 T
- Bollard Pull: 50 Tons
- Deck Strength: 5.0 Ton/m²

### Capacity
- Fuel Oil: 368 m³
- Fresh Water: 172 m³
- Lube Oil: 6.5 m³
- Seawater Ballast: 56 m³
- Foam: 7.8 m³
- Detergent: 9.3 m³
- Breadth Moulded: 11.80 m
- Draft Moulded: 3.80 m
- Net Tonnage: 149 T
- Maximum Speed: 13 Knots
- Clear Deck Area: 150 m²

### Accommodation
- 1 man cabin x 2: 2 men
- 2 men cabin x 1: 2 men
- 4 men cabin x 4: 16 men
- Total: 20 men

### Fire Fighting Equipment
- Fire Pump: 1 x 1,200m³/hr @ 120m head
- Fire Monitor: 2 x 600m³/hr @ 100m head
- Life Raft: 2 x 25 men inflatable type

### Miscellaneous
- Sewage Treatment Plant: 1 x 20 Pax
- Oily Water Separator: 1 x 0.50m³/hr

### Main Machinery
- Main Engine: 2 x 2,100 BHP @ 1,600rpm, Caterpillar 3516B
- Propulsion System: 2 x Fixed pitch propellers in kort nozzles
- Generator: 2 x 229kW @1,500rpm, Caterpillar 3406C, 415V/3ph/50Hz
- Emergency Genset: 1 x 30W Perkins
- Bow Thruster: 1 x 3 Tons @ 220kW, HRP3001TT
- Gearbox: 2 x Reintjes, WAF 763 - Ratio 5.75

### Deck Machinery
- Anchor Windlass: 1 x 3.3T @ 10m/min, ME
- Towing Winch: 1 x 70 Tons Hydraulic Waterfall Double Drum, ME Brake Holding: 150 Tons @ 1st Layer
- Wire rope: 600 length, dia. 50mm
- Tugger Winch: 2 x 5 Tons @ 15m/min, ME
- Shark Jaw/ Tow Pin: 1 set SWL200 Tons Hydraulic Type
- Stern Roller: 3.5m Length x dia. 1.45m, SWL 150 Tons
- Crane: 1 x SWL 2 Tons

### GMDSS & Navigation Equipment
- GMDSS for Sea Area A1 + A2 + A3
  - SSB Radio Telephone: 1 x JRC, JHB 196GM
  - VHF Radio Telephone: 1 x JRC, JHS32B
  - Gyro Compass: 1 x Yokogawa, GMZ-9008B/D
  - X- Band Radar: 1 x JRC, JMA-2300
  - AIS: 1 x JRC, JHS182
  - Encho Sounder: 1 x JRC, FF60
  - DGPS: 1 x JRC, J-NAV500
  - Autopilot: 1 x Comnav
  - Weather Fax Receiver: 1 x JRC, JAX-98
  - Navtex Receiver: 1 x JRC, NCR-333
  - Doppler Speed Log: 1 x JRC, JLN-205

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