Vessel Range

**OFFSHORE SUPPORT VESSELS**
- Anchor Handling Tug Supply Vessels
- Dive Maintenance Support Vessels
- Platform Supply Vessels
- Seismic Support Vessels
- Seismic Survey Vessels
- Work Maintenance Vessels

**HARBOUR & TERMINAL**
- Anchor Handling Tugs
- Escort Tugs
- Harbour Tugs
- Mooring Boats
- Tail Back Tugs

**WORKBOATS**
- Crane/Workboats
- Multi-Purpose Workboats
- Self Propelled Barges
- Utility Vessels

**ALUMINUM VESSELS**
- Crew Boats
- Fast Support Intervention Vessels
- Forward Landing Crew Boats
- Pilot Boats
- Security Boats
- Service Boats
## PROPULSION – MACHINERY

<table>
<thead>
<tr>
<th>Component</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Main Engine</td>
<td>2 x MAN Engine BL 27/38</td>
</tr>
<tr>
<td>Output/RPM</td>
<td>2720 kW @ 800 RPM</td>
</tr>
<tr>
<td>Gearbox</td>
<td>Reduction Gearbox</td>
</tr>
<tr>
<td>Controllable Pitch Propeller</td>
<td>2 x Controllable Pitch Propeller</td>
</tr>
<tr>
<td>Auxiliary Gen Sets</td>
<td>4 x VOLVO PENTA 450kW</td>
</tr>
<tr>
<td>Shaft Alternator</td>
<td>2 x Leroy Somer 1200 kW</td>
</tr>
<tr>
<td>Emergency Gen. Set</td>
<td>1 x VOLVO PENTA 168kW</td>
</tr>
<tr>
<td>Bow Thruster</td>
<td>2 x 800kW (Electric driven CPP)</td>
</tr>
<tr>
<td>Stern Thruster</td>
<td>2 x 400kW (Electric driven CPP)</td>
</tr>
<tr>
<td>Rudders</td>
<td>2 x Flap Rudders</td>
</tr>
<tr>
<td>External Fire Fighting</td>
<td>2x 1737 m3/hr Fifi pumps</td>
</tr>
</tbody>
</table>

## CAPACITIES

<table>
<thead>
<tr>
<th>Category</th>
<th>Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fuel Oil</td>
<td>600.00 m³</td>
</tr>
<tr>
<td>Fresh Water</td>
<td>600.00 m³</td>
</tr>
<tr>
<td>Drill Water/Water Ballast</td>
<td>500.00 m³</td>
</tr>
<tr>
<td>Mud/Brine/Recovered Oil</td>
<td>550.00 m³</td>
</tr>
<tr>
<td>Cement</td>
<td>4 x 40 m³ tanks</td>
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</table>

## ACCOMMODATION

<table>
<thead>
<tr>
<th>Type</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Crew</td>
<td>18</td>
</tr>
<tr>
<td>Special Personnel</td>
<td>32</td>
</tr>
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</table>

## DIMENSION

<table>
<thead>
<tr>
<th>Measurement</th>
<th>Value</th>
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<tbody>
<tr>
<td>LOA</td>
<td>67.00 m</td>
</tr>
<tr>
<td>Breadth</td>
<td>16.80 m</td>
</tr>
<tr>
<td>Draft, Loaded</td>
<td>5.40 m</td>
</tr>
<tr>
<td>Hull</td>
<td>Steel</td>
</tr>
<tr>
<td>Shaft Alternator</td>
<td>20 m</td>
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## PERFORMANCE

<table>
<thead>
<tr>
<th>Category</th>
<th>Specification</th>
</tr>
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<tbody>
<tr>
<td>Speed</td>
<td>13.5 knots</td>
</tr>
<tr>
<td>Dead Weight</td>
<td>2200 Tons</td>
</tr>
<tr>
<td>Endurance</td>
<td>30 days @ service speed</td>
</tr>
<tr>
<td>Deck Strength</td>
<td>7.5 ton/m²</td>
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</tbody>
</table>

## CAPACITIES

<table>
<thead>
<tr>
<th>Category</th>
<th>Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fuel Oil</td>
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<tr>
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<tr>
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<td>4 x 40 m³ tanks</td>
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## ACCOMMODATION

<table>
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<tr>
<th>Type</th>
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</thead>
<tbody>
<tr>
<td>Crew</td>
<td>18</td>
</tr>
<tr>
<td>Special Personnel</td>
<td>32</td>
</tr>
</tbody>
</table>
**Offshore Support Vessels**

**Dive Maintenance Support Vessels**

**Dimension**
- LOA: 55.30 m
- Breadth (moulded): 16.00 m
- Depth (at midship): 5.50 m
- Draft: 4.50 m
- Hull: Steel
- Crew: 36
- Deck Area: 350 sqm

**Performance**
- Cruising Speed: 12.50 knots

**Propulsion – Machinery**
- Main Engines: 2 x 1440 kw @1000 RPM (Wartsila)
- Rudder Propeller: Steerable rudder propeller
- Bow thruster: 1 x 300KW Electric driven
- Auxiliary Gen. Sets: 4 x 400 Kw Gen. Set
- Emergency gen set: 1 x 143 Kw gen set
- Step up gearbox: 2 x Step up gearbox rated 800 Kw to drive FIFI 1 pump

**Deck Equipment**
- Offshore Deck Crane: Telescopic
- Deck crane: 3 t @ 12 m
- Anchor windlass: 2 Nos @ 18 t pull
- Capstan: 2 Nos 5 t @ 12 m/min
- Tugger Winch: 20 t @ 20 m/min

**Capacity**
- Fuel Oil: 370.00 m3
- Fresh Water: 200.00 m3

**Registration**
- Class: DNV
- Dynamic Positioning according to DNV Notation Dynpos AUT (DP1)

**Auxiliary – Machinery**
- Fire Pumps: 2 x 1650 m3/hr to meet FIFI-1 Class
- Ballast pumps: 2 x 250 m3/hr
- Oil separator: 1 x 2.5 m3/hr
- Fixed fire protection: Water mist system

**Diving Equipment**
- 2 Nos Decompression Chambers, compressors & associated equipment
- According to IMCA FMEA Guide for diving systems

**Automation/Navigation Equipment**
- Alarm Monitoring system according to EO Notation
- Addressable fire detection system
- Integrated Gas detection system
- GMDS Area 2
- 1 x X band and 1 x 5 band Radar with Inter switch
- Dual Axix Speed log
- CCTV system
- SSAS/AIS
- Satellite télévision system

**Seismic Support Vessels - Hybrid Propulsion**

**Dimension**
- LOA: 53.80 m
- Breadth: 13.00 m
- Depth: 6.30 m
- Hull: Steel

**Performance**
- Speed: 12.3 knots
- Deck Strength: 5 ton/m2
- Bollard Pull: 40 Tons in Diesel/ Mechanical Mode

**Propulsion – Machinery**
- Main Engine: 2 x CAT 3512C
- Out/RPM: 1175 KW @1800 RPM
- Gearbox: PTI/PTO Reduction Gearbox
- Bow thruster: 1 x 300KW Electric driven
- Auxiliary Gen. Sets: 4 x 400 Kw Gen. Set
- Emergency gen set: 1 x 143 Kw gen set
- Step up gearbox: 2 x Step up gearbox rated 800 Kw to drive FIFI 1 pump

**Deck Equipment**
- Offshore Deck Crane: Telescopic
- Deck crane: 3 t @ 12 m
- Anchor windlass: 2 Nos @ 18 t pull
- Capstan: 2 Nos 5 t @ 12 m/min
- Tugger Winch: 20 t @ 20 m/min

**Capacity**
- Fuel Oil: 370.00 m3
- Fresh Water: 200.00 m3

**Registration**
- Class: BV
- Dynamic Positioning according to DNV Notation Dynpos AUT (DP1)

**Auxiliary – Machinery**
- Fire Pumps: 2 x 1650 m3/hr to meet FIFI-1 Class
- Ballast pumps: 2 x 250 m3/hr
- Oil separator: 1 x 2.5 m3/hr
- Fixed fire protection: Water mist system

**Automation/Navigation Equipment**
- Alarm Monitoring system according to EO Notation
- Addressable fire detection system
- Integrated Gas detection system
- GMDS Area 2
- 1 x X band and 1 x 5 band Radar with Inter switch
- Dual Axix Speed log
- CCTV system
- SSAS/AIS
- Satellite télévision system

**Diving Equipment**
- 2 Nos Decompression Chambers, compressors & associated equipment
- According to IMCA FMEA Guide for diving systems

**Automation/Navigation Equipment**
- Alarm Monitoring system according to EO Notation
- Addressable fire detection system
- Integrated Gas detection system
- GMDS Area 2
- 1 x X band and 1 x 5 band Radar with Inter switch
- Dual Axix Speed log
- CCTV system
- SSAS/AIS
- Satellite télévision system

**Accommodation**
- Complement: 24 Persons
SEISMIC SURVEY VESSELS

**DIMENSION**
- LOA: 25.91 m
- Breadth (moulded): 7.00 m
- Depth (at midship): 2.12 m
- Draft, loaded: 1.00 m
- Hull: Aluminum

**PERFORMANCE**
- Speed, maximum: 12 knots

**PROPULSION - MACHINERY**
- Main Engines: 2 x Scania D112 59M
- Output/RPM: 294 Kw @ 1800 RPM
- Engine Control: Hydroarmor
- Surface Drive Propeller: 2 x Hydroarmor 2700 HD
- Main Gen. Set: 1x Cummins 85kVA@ 1500 RPM

**CAPACITIES**
- Fuel Oil: 12,800 Ltr
- Fresh Water: 390 Ltr
- Black Water: 335 Ltr

**ACCOMMODATION**
- Crew: 10 Persons

OFFSHORE SUPPORT/MAINTENANCE VESSELS

**DIMENSION**
- LOA: 57.00 m
- Breadth: 13.60 m
- Depth: 4.50 m
- Draft: 6.00 m
- Hull: Steel

**PERFORMANCE**
- Speed: 13.5 knots
- Deck Area: 350 m²
- Deck Strength: 5 ton/m²

**PROPULSION – MACHINERY**
- Main Engine: 2 x CAT 3512C
- Output/RPM: 1911 BHP @ 1600 RPM
- Gearbox: Reduction Gearbox
- Fixed Pitch Propeller: 2 x Fixed Pitch Propeller 4 blade, MaBr
- Auxiliary Gen Sets: 2 x Cat Generator 245kW 415V 50Hz 3Ph
- Emergency Gen. Set: 1 x CAT Generator 82kW 415V 50Hz 3Ph
- Bow Thruster: 1 x 5T thrust engine driven

**MAJOR SYSTEMS**
- All Tank Remote Gauging system
- Cargo pumping System
- Centralized air condition system

**CAPACITIES**
- Fuel Oil: 500.00 m³
- Fresh Water: 500.00 m³

**ACCOMMODATION**
- Complement: 50 persons

**REGISTRATION**
- Class: BV
- Notation: 1+HULL+MACH Supply Vessel, Unrestricted Navigation.

**DECK EQUIPMENT**
- Anchor Windlass: 2 X Electric, 9.6 Tons
- Capstan: 2 X 5 Tons @ 15 m/min
- Anchor: 3 X 1590 Kg
**DIMENSION**
- LOA: 38.00 m
- Breadth (moulded): 14.50 m
- Depth (at midship): 6.27 m
- Draft, loaded: 5.34 m
- Hull: Steel
- Crew: 10

**PERFORMANCE**
- Cruising Speed: 13.5 knots
- Bollard Pull: 100 Tons
- Deck Cargo Space: 80 m²
- Deck Loading @ stern mn dk: 5 ton/m²

**PROPULSION – MACHINERY**
- Main Engines: 2 x MAK 9M25
  - Continuous Output/RPM: 2,970 Kw @ 750 RPM with front PTO drive for step-up gearbox for 1650 m³/h fire pump and hydraulic pump Schottel steerable rudder propeller SRP 3030 CP
- Rudder Propeller: Schottel steerable rudder propeller SRP 3030 CP
- Auxiliary Gen. Sets: 2 x 250 Kw Gen. Set
  - 480 V 60Hz 3 Ph
- Emergency gen set: 1 x 83 Kw gen set
- Step-up gearbox: 2 x Step up gearbox rated 900 Kw to drive FIFI 1 pump and hyd. Pump

**DECK EQUIPMENT**
- Escort Winch: Double drum, double gypsy braking load – 250 t
- Anchor windlass: 1 x 5 t x 10 m/min capstan
- Capstan: Single drum with spooling gear braking load – 150 t
- Aft towing winch: 1 x 120T SWL towing hook
- Towing Hook: 1 x Norec
- Rescue boat Davit: Knuckle boom 7.5 t @ 7.8 m
- Deck crane:

**CAPACITIES**
- Fuel Oil: 316.00 m³
- Fresh Water: 109.00 m³
- Foam: 20.00 m³

**REGISTRATION**
- Class: BV
- Class Notation: 1 + HUL + MACH
- Escort tug, FIFI-1 Water spray, AUT-UMS, Unrestricted Navigation
ESCORT/HARBOUR TUGS

DIMENSION
LOA: 32.00 m
Breadth: 12.00 m
Depth: 5.36 m
Hull: Steel

PERFORMANCE
Speed: 13.0 knots
Bollard Pull, ahead: 55 Tons
Bollard Pull, astern: 50 Tons
Deck Area: 80 m²
Deck Strength: 5 ton/m²

PROPULSION – MACHINERY
Main Engine: 2 x MAN 8L21/31
Output/RPM: 1720 bKw @ 1000 RPM
Gearbox: Step-up Gearbox
Azimuthing Drive: 2 x Rolls Royce AQM US 205
FP/3305
Auxiliary Gen Sets: 2 x CAT C6.6- 143ekW @ 50Hz
415V 50Hz 3Ph
Speed Control Clutch: Twin Disk MCD
External Firefighting: 2x 1450 m³/hr Fifi pumps
Internal Firefighting: FM 200 system

DECK EQUIPMENT
FWD Anchor Windlass/ Escort Towing Winch
AFT Tow hook:
- Rated Load: 60T
- Proof Load: 120T
AFT GOBEYE
1x Capstan: 5 Ton x 18 m/min
Deck Crane: (1.5T @ 6m)

CAPACITIES
Fuel Oil: 113.10 m³
Fresh Water: 12.20 m³
Foam: 9.60 m³

ACCOMMODATION
Crew: 8 persons

REGISTRATION
Class: ABS
Class Notation: ABS + A1,
Towing Vessel, Escort Vessel,
+ AMS, + ABCU, Fire Fighting Vessel Class 1,
BP (55) QR, HAB (WB)

TAIL BACK TUGS/ MOORING BOATS

DIMENSION
LOA: 19.84 m
Breadth (moulded): 8.00 m
Depth (at midship): 3.50 m
Draft, max.: 2.50 m
Hull: Steel

PERFORMANCE
Cruising Speed: 10.50 knots
Bollard Pull, ahead: 23 Tons
Bollard Pull, astern: 21 Tons

PROPULSION – MACHINERY
Main Engine: 2 x MTU 8V 4000 M60
Continuous Output/RPM: 880KW x 1800RPM
Azimuthing Drive: 2 x Schottel SRP550FP rtd 880 kw @ 1800rpm
Step-up gearbox: 2 x Kumeria Gearbox
Auxiliary Gen. Sets: 2 x CAT C4.4T Marine gen set rated
52KW 1500 RPM 380/50/3
Emergency generator: 1 x 65KW 1800 RPM 480/60/3
External FIFI: FIFI comprising:
1 x Fire pump rated 300 m³/h @ 12 bar
1 x Fire water monitor, rtd 300 m³/h @ 12 bar
Oil Dispersant system: 1 x Dispersant syst. 2 w/ 5m boom
Oil pollution control eqpt: 1 x Lamour System

DECK MACHINERY & EQUIPMENT
Towing / Hawser winch: 1 x Plimsoll Towing winch, hyd. Driven
Capstan:
1 x 2 T x 45 m/min
Power pack: 1 x 1100 ltr
Towing hook: 1 x 30T SWL Tow hook
Davit: 1 x 1.25 T SWL fabricated type

CAPACITIES
Fuel Oil: 20.97 m³
Fresh water: 5.34 m³
Dirty Oil: 0.96 m³
Black water: 0.70 m³
Hydraulic oil: 0.49 m³
Lub oil Z – drive: 0.49 m³
Lub oil E/R port: 0.25 m³
Lub oil E/R Stbs: 0.25 m³
Lub oil waste oil tank: 0.96 m³
DIMENSION
LOA  35.00 m
Breadth  11.50 m
Depth  4.80  m
Hull  Steel

PERFORMANCE
Speed, Maximum  11 knots
Bollard pull  35 Tons

DECK EQUIPMENT
Deck Crane  20t @ 10m telescopic
Capstan  2 x 5 Tons SWL

PROPULSION – MACHINERY
Main Engine  2 x Wartsila 6L20
Output/RPM  1430 BHP @ 1000 RPM
Propulsion  2 x ASD (Lips)
Bow Thruster  1 x 250 HP Bow Thruster

CAPACITIES
Fuel Oil  120 m3
Fresh Water  40 m3

ACCOMMODATION
Crew  8 persons

REGISTRATION
Class  LRS
**MULTI-PURPOSE WORKBOATS**

**DIMENSION**
- LOA: 30.00 m
- Breadth: 12.50 m
- Depth: 3.80 m
- Hull: Steel

**PERFORMANCE**
- Speed, Maximum: 11 knots
- Speed, Cruising: 9.5 knots
- Deck Area: 220 m²

**DECK EQUIPMENT**
- Deck Crane: 2 x Knuckle Boom Crane, capacity 12.9 Tons @ 11.6 m radius
- Towing Hook: 1 x 40 T SWL
- Main Winch: 1 x 10 T @ 5m/min Hyd. Driven
- Tugger Winch: 1 x 40 T SWL Removable type

**PROPULSION – MACHINERY**
- Main Engine: 2 x CAT C32 "B" rating, 1300 BHP @ 2100 RPM
- Fixed Pitch Propeller: 2 x Fixed Pitch Propeller, Five blade, NiAlBr
- Auxiliary Gen Sets: 2 x CAT CA A (86kW)
- Bow Thruster: 380V 50Hz 3Ph, 200 HP Bow Thruster

**CAPACITIES**
- Fuel Oil: 300 m³
- Fresh Water: 30 m³
- Crew: 6 persons

**REGISTRATION**
- Class: LRS

---

**SELF PROPELLED BARGES**

**DIMENSION**
- LOA: 26.00 m
- Breadth (moulded): 12.50 m
- Depth (at midship): 2.75 m
- Draft, loaded: 1.40 m
- Hull: Steel

**PERFORMANCE**
- Speed, maximum: 6.2 knots
- Deck Cargo Space: 55 m²

**PROPULSION – MACHINERY**
- Propulsion Engines: Electric Propulsion
- Generators: 2 x Cummins KTA 19 D(Mi), 380 kWe @ 1500 RPM
- Voltage Rating: 400V, 50Hz, 3 Phase
- Pumpjet Thrusters: 3x STP 57RD, 168 kW cont. @ 900 RPM
- DP Class: Class 1

**DECK EQUIPMENT**
- Deck Crane: 15 Tons @ 15.6 m
- Tugger Winch: 2 x 5 Tons MacGregor PC-EUW-05

**CAPACITIES**
- Fuel Oil: 7,000 USG
- Fresh Water: 18,800 USG
### WORKBOATS

**DIMENSION**

<table>
<thead>
<tr>
<th></th>
<th>Utility Vessels</th>
<th>Utility Vessels</th>
</tr>
</thead>
<tbody>
<tr>
<td>LOA</td>
<td>36.00 m</td>
<td>38.00 m</td>
</tr>
<tr>
<td>Breadth</td>
<td>9.00 m</td>
<td>9.00 m</td>
</tr>
<tr>
<td>Depth</td>
<td>3.80 m</td>
<td>3.80 m</td>
</tr>
<tr>
<td>Hull</td>
<td>Steel</td>
<td>Steel</td>
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**PERFORMANCE**

<table>
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<tr>
<th></th>
<th>Utility Vessels</th>
<th>Utility Vessels</th>
</tr>
</thead>
<tbody>
<tr>
<td>Speed, Maximum</td>
<td>12.5 knots</td>
<td>12 knots</td>
</tr>
<tr>
<td>Deck Area</td>
<td>100 m²</td>
<td>135 m²</td>
</tr>
<tr>
<td>Deck Load Capacity</td>
<td>3 ton/m²</td>
<td>2 ton/m²</td>
</tr>
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</table>

**PROPULSION – MACHINERY**

<table>
<thead>
<tr>
<th>Utility Vessels</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Main Engine</td>
<td>2 x CAT C32 “B” rating</td>
</tr>
<tr>
<td>Output/RPM</td>
<td>1300 BHP @ 2100 RPM</td>
</tr>
<tr>
<td>Auxiliary Gen Sets</td>
<td>2 x CAT C9 150 Kw</td>
</tr>
<tr>
<td>Bow Thruster</td>
<td>1 x 300 HP</td>
</tr>
</tbody>
</table>

**DECK EQUIPMENT**

<table>
<thead>
<tr>
<th>Utility Vessels</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Anchor Windlass</td>
<td>1 x Hyd Anchor windlass</td>
</tr>
<tr>
<td>Anchor</td>
<td>1 x 660 kg Hall Anchor</td>
</tr>
<tr>
<td>Capstan</td>
<td>1 x 3T Electric capstan</td>
</tr>
<tr>
<td>Deck Crane</td>
<td>1 x 5T @ 10m radius</td>
</tr>
<tr>
<td>Fi-Fi Equipment</td>
<td>2 x External Fire Pumps</td>
</tr>
<tr>
<td>Rescue Boat</td>
<td>1 x 6 persons, 25 Hp Outboard</td>
</tr>
</tbody>
</table>

**CAPACITIES**

<table>
<thead>
<tr>
<th>Utility Vessels</th>
<th>Utility Vessels</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fuel Oil</td>
<td>108.00 m³</td>
</tr>
<tr>
<td>Fresh Water</td>
<td>100.00 m³</td>
</tr>
</tbody>
</table>

**ACCOMMODATION**

<table>
<thead>
<tr>
<th>Utility Vessels</th>
<th>Utility Vessels</th>
</tr>
</thead>
<tbody>
<tr>
<td>Crew</td>
<td>8 persons</td>
</tr>
<tr>
<td>Offshore Personnel</td>
<td>32 persons</td>
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</tbody>
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**REGISTRATION**

<table>
<thead>
<tr>
<th>Utility Vessels</th>
<th>Utility Vessels</th>
</tr>
</thead>
<tbody>
<tr>
<td>Class</td>
<td>BV</td>
</tr>
<tr>
<td>Class</td>
<td>LRS</td>
</tr>
</tbody>
</table>

**UTILITY VESSELS**

- **DIMENSION**
  - LOA: 36.00 m
  - Breadth: 9.00 m
  - Depth: 3.80 m
  - Hull: Steel

- **PERFORMANCE**
  - Speed, Maximum: 12.5 knots
  - Deck Area: 100 m²
  - Deck Load Capacity: 3 ton/m²

- **PROPULSION – MACHINERY**
  - Main Engine: 2 x CAT C32 “B” rating
  - Output/RPM: 1300 BHP @ 2100 RPM
  - Auxiliary Gen Sets: 2 x CAT C9 150 Kw
  - Bow Thruster: 1 x 300 HP

- **DECK EQUIPMENT**
  - Anchor Windlass: 1 x Hyd Anchor windlass
  - Anchor: 1 x 660 kg Hall Anchor
  - Capstan: 1 x 3T Electric capstan
  - Deck Crane: 1 x 5T @ 10m radius
  - Fi-Fi Equipment: 2 x External Fire Pumps
  - Rescue Boat: 1 x 6 persons, 25 Hp Outboard

- **CAPACITIES**
  - Fuel Oil: 108.00 m³
  - Fresh Water: 100.00 m³

- **ACCOMMODATION**
  - Crew: 8 persons
  - Offshore Personnel: 32 persons

**UTILITY VESSELS**

- **DIMENSION**
  - LOA: 38.00 m
  - Breadth: 9.00 m
  - Depth: 3.80 m
  - Hull: Steel

- **PERFORMANCE**
  - Speed (max): 12 knots
  - Speed (service): 11 knots
  - Deck Area: 135 m²
  - Deck Strength: 2 ton/m²

- **PROPULSION – MACHINERY**
  - Main Engine: 2 x CAT C32
  - Output/RPM: 1300 BHP @ 2100 RPM
  - Auxiliary Gen Sets: 2 x Cat Generator 125kW
  - Bow Thruster: 1 x Bow thruster 200 HP
  - External Fire Fighting: 2 x Fire Pump 600 m³/hr

- **CAPACITIES**
  - Fuel Oil: 128.00 m³
  - Fresh Water: 100.00 m³

- **ACCOMMODATION**
  - Crew: 26 persons
ALUMINUM VESSELS

DIMENSION
LOA 33.50 m  
Breadth 6.70 m  
Depth 3.50 m  
Hull Aluminum

PERFORMANCE
Speed 24 knots  
Deck Cargo Area 80 m²  
Deck Strength 1.5 ton/m²  
Deck Cargo 18 Tons

PROPULSION – MACHINERY
Main Engine 3 x CAT C32  
Output/RPM 1450 BHP @ 2300 RPM  
Fixed Pitch Propeller 3 x Fixed Pitch Propeller Five blade, NiAlBr  
Auxiliary Gen Sets 2 x Cat Generator 58.5eKW 440V 60Hz 3Ph

CAPACITIES
Fuel Oil 50.00 m³  
Fresh Water 18.00 m³

ACCOMMODATION
Crew 12 persons  
Offshore Personnel 35 seating capacity

REGISTRATION
Class BV

CREW BOATS
**ALUMINUM VESSELS**

**DIMENSION**
- LOA: 24.0 m
- Breadth (moulded): 6.00 m
- Depth (at midship): 2.50 m
- Draft, loaded: 1.50 m
- Hull: Aluminum

**PERFORMANCE**
- Speed, maximum: 20 knots
- Speed, cruising: 16 knots
- Consumption: 113.7 usg/h
- Deck Cargo: 20 Tons
- Deck Loading at stern: 1.5 ton/m²

**PROPULSION – MACHINERY**
- Main Engine: 2 x DAEWOO 222 TIM rating 800HP @ 2100RPM
- Auxiliary Gen. Sets: 2 x 36KW gen Set
- Steering System: 1 x Steering gear

**CAPACITIES**
- Fuel Oil: 4000 Ltrs
- Fresh Water: 1000 Ltrs

**ACCOMMODATION**
- Crew: 6
- Offshore Personnel: 20 Seats capacity

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**DIMENSION**
- LOA: 21.50 m
- Breadth (moulded): 6.00 m
- Depth (at midship): 2.50 m
- Draft, loaded: 1.25 m
- Hull: Aluminum

**PERFORMANCE**
- Speed, maximum: 22 knots
- Speed, cruising: 18 knots
- Consumption: 114 usg/h
- Deck Cargo: 15 Tons
- Deck Loading at stern: 1.5 ton/m²

**PROPULSION – MACHINERY**
- Main Engine: 2 x CAT3412E “C” rating 1100BHP @ 2300 RPM
- Auxiliary Gen. Sets: 2 x 35KVA Gen Set
- Steering System: 1 x Steering gear

**CAPACITIES**
- Fuel Oil: 1500 USGs
- Fresh Water: 1000 USG

**ACCOMMODATION**
- Crew: 4
- Offshore Personnel: 20 Seats capacity
**DIMENSION**
- LOA: 21.30 m
- Breadth (moulded): 5.80 m
- Depth (at midship): 2.75 m
- Draft, loaded: 1.30 m
- Hull: Aluminum

**PERFORMANCE**
- Speed, maximum: 24 knots
- Speed, cruising: 20 knots
- Deck Cargo Space: 35 m²
- Deck Load: 15 metric tons
- Deck Loading @ stern mn dk: 1 ton/m²

**PROPELLATION – MACHINERY**
- Main Engines: 2 x CUMMINS KTA-19-M4
- Fixed Pitch Propeller: 2 x Fixed pitch propeller, Four blade, NiAlBr
- Auxiliary Gen. Sets: 1 x 27 Kw Gen Set, 1 x 17 Kw Gen Set
- Steering System: 1 x Electrohydraulic steering gear

**CAPACITIES**
- Fuel Oil: 2880 USG
- Fresh Water: 594 USG

**ACCOMMODATION**
- Crew: 4
- Offshore Personnel: 18 capacity

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**REGISTRATION**
- Class: BV

**DIMENSION**
- LOA: 50.29 m
- Breadth (moulded): 8.94 m
- Depth (at midship): 4.27 m
- Draft, loaded: 2.90 m
- Hull: Aluminum

**PERFORMANCE**
- Speed, maximum: 22 knots
- Speed, cruising: 20 knots
- Deck Cargo Space: 250 m²
- Deck Cargo: 250 Tons
- Deck Load capacity: 2 ton/m²
- Range: 2820NM

**PROPELLATION – MACHINERY**
- Main Engines: 4 x CUMMINS KTA 50 M2 (HD)
- Fixed Pitch Propeller: 4 x Fixed pitch propeller, Four blade, NiBrAl
- Main Gen. Sets: 2 x 83 Kw CUMMINS 6BT5.9D(M)
- Steering System: 1 x Hydraulic steering gear 1500 kgm Palmarine

**CAPACITIES**
- Fuel Oil: 143,830 Liters
- Ballast Water: 193,035 Liters
- Fresh water: 3200 Liters
- Lub oil: 480 Liters
- Hydraulic oil: 780 Liters
- Black & Grey water: 1,000 Liters
- Dirty oil tank: 6,973 Liters

**ACCOMMODATION**
- Crew: 12
- Seating capacity: 82 Passengers
ALUMINUM VESSELS

FAST SUPPORT INTERVENTION VESSELS

**DIMENSION**
- LOA: 41.00 m
- Breadth: 7.30 m
- Depth: 3.50 m
- Hull: Aluminum

**PERFORMANCE**
- Speed, Maximum: 24 knots
- Deck Area: 104 m²
- Deck Load Capacity: 2 ton/m²

**PROPULSION – MACHINERY**
- Output/RPM: 1450 BHP @ 2300 RPM
- Fixed Pitch Propeller: 3 x Fixed Pitch Propeller
- Auxiliary Gen Sets: 2 x Marine Gen Set 86 Kw
- Bow Thruster: 1 x 90 HP

**DECK EQUIPMENT**
- Deck Crane: 1 x Palfinger PK 15500 M(C ) 2T@6m

**CAPACITIES**
- Fuel Oil: 13100 USG approx
- Fresh Water: 10 900 USG approx
- Lubricating Oil: 132 USG approx

**ACCOMMODATION**
- Crew: 12 persons
- Offshore Personnel: 83 seating capacity

**REGISTRATION**
- Class: LRS

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**REGISTRATION**
- Class: LRS

**DIMENSION**
- LOA: 42.00 m
- Breadth: 7.30 m
- Depth: 3.50 m
- Hull: Aluminum

**PERFORMANCE**
- Speed: 26 knots
- Deck Cargo Area: 110 m²
- Deck Strength: 2 ton/ m²
- Deck Cargo: 90 tons

**PROPULSION – MACHINERY**
- Main Engine: 3 x CAT C32 ACERT 1450 HP
- Output/RPM: 1450 BHP @ 2300 RPM
- Fixed Pitch Propeller: 3 x Fixed Pitch Propeller
- Bow Thruster: 1 x 90 HP
- Auxiliary Gen Sets: 2 x Cat Generator 86 KW

**CAPACITIES**
- Fuel Oil: 121,504 Ltrs
- Fresh Water: 34,469 Ltrs

**ACCOMMODATION**
- Crew: 14 persons
- Offshore Personnel: 83 seating capacity
ALUMINUM VESSELS
www.grandweld.com

FORWARD LANDING CREW BOATS

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<thead>
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<th>REGISTRATION</th>
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<tbody>
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<td>LOA</td>
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<tr>
<td>Breadth</td>
<td>5.80 m</td>
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<td>Depth</td>
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<th>PROPULSION – MACHINERY</th>
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<th>CAPACITIES</th>
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PILOT BOATS

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<td>LOA</td>
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<tr>
<td>Breadth</td>
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<td>Depth</td>
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<th>PERFORMANCE</th>
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<td>Speed, Maximum</td>
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<td>Gearbox</td>
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<td>Waterjets</td>
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<td>Main Gen Sets</td>
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<td>380V 50Hz 3 Ph</td>
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<td><strong>SERVICE BOATS</strong></td>
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**DIMENSION**
- **LOA**: 21.30 m
- **Breadth**: 5.30 m
- **Depth**: 2.65 m
- **Hull**: Aluminum

**PERFORMANCE**
- **Speed**: 31 knots @ 100% MCR
- **Speed**: 29 knots @ 90% MCR

**PROPULSION – MACHINERY**
- **Main Engine**: 2 x CAT C32 ACERT
- **Output/RPM**: 972 KW @ 1800 RPM
- **Waterjets**: 2 x Hamilton waterjets
- **Auxiliary Gen Sets**: 2 x Marine Gen Set 38 kW
- **415V 50Hz 3 Ph**

**DECK EQUIPMENT**
- **Fendering**: Rubber Fendering

**CAPACITIES**
- **Fuel Oil**: 5,300 Ltrs
- **Fresh Water**: 2,250 Ltrs

**ACCOMMODATION**
- **Complement**: 3 persons
- **Passengers**: 20 persons

**REGISTRATION**
- **Class**: LRS