



Vikoma Technical Specification for Delta Responder

1. Vikoma Delta Responder

Description:

The Vikoma Delta Responder workboat is a shallow “V” craft incorporating a 1.2m wide hinged, electrically operated bow loading ramp. The large open deck enables easy deployment of oil spill equipment. The Delta Responder is capable of 30 knt/hr fully laden with ease and can be powered by a series of options; diesel inboard engine coupled to a water jet drive, diesel inboard engine coupled to a stern drive and a twin outboard engine option.

The Vessel is designed to be fast response, allowing quick inspection of potential oil spill scenarios.

Vessel Drive Option	Vessel Length Option (excluding stern platform)		
Jet Drive	7.86m	8.51m	9.21m
Stern Drive	7.86m	8.51m	9.21m
Twin Outboard	7.86m	8.51m	9.21m

Specifications:

- The vessels seaworthiness/class conforms to UK Maritime Coastguard Agency; “The safety of small workboats & pilot boats”
- Vessel is constructed to recognized/applicable ISO build standards.
- Electrical wiring circuits conform to recognised international standard for practices recommended for small craft.
- The vessel length can come in ranges of 7.86m, 8.51m and 9.16m. (Jet drive and Stern drive versions also have a stern guard rail and platform.
- The overall width is approx. 2.5 wide.
- Vessel has a draft of approx. 0.35m and is designed to operate in very shallow depths of water.
- Maximum speed approx. 30 knots.
- Vessel Gross weight approx 2850kg.
- Bollard pull approx 0.5 tonnes.
- Operating range approx 200 nautical miles.
- Minimum passenger carrying capacity of 6 persons, not including the vessels crew (2 persons).

Propulsion system & Components:

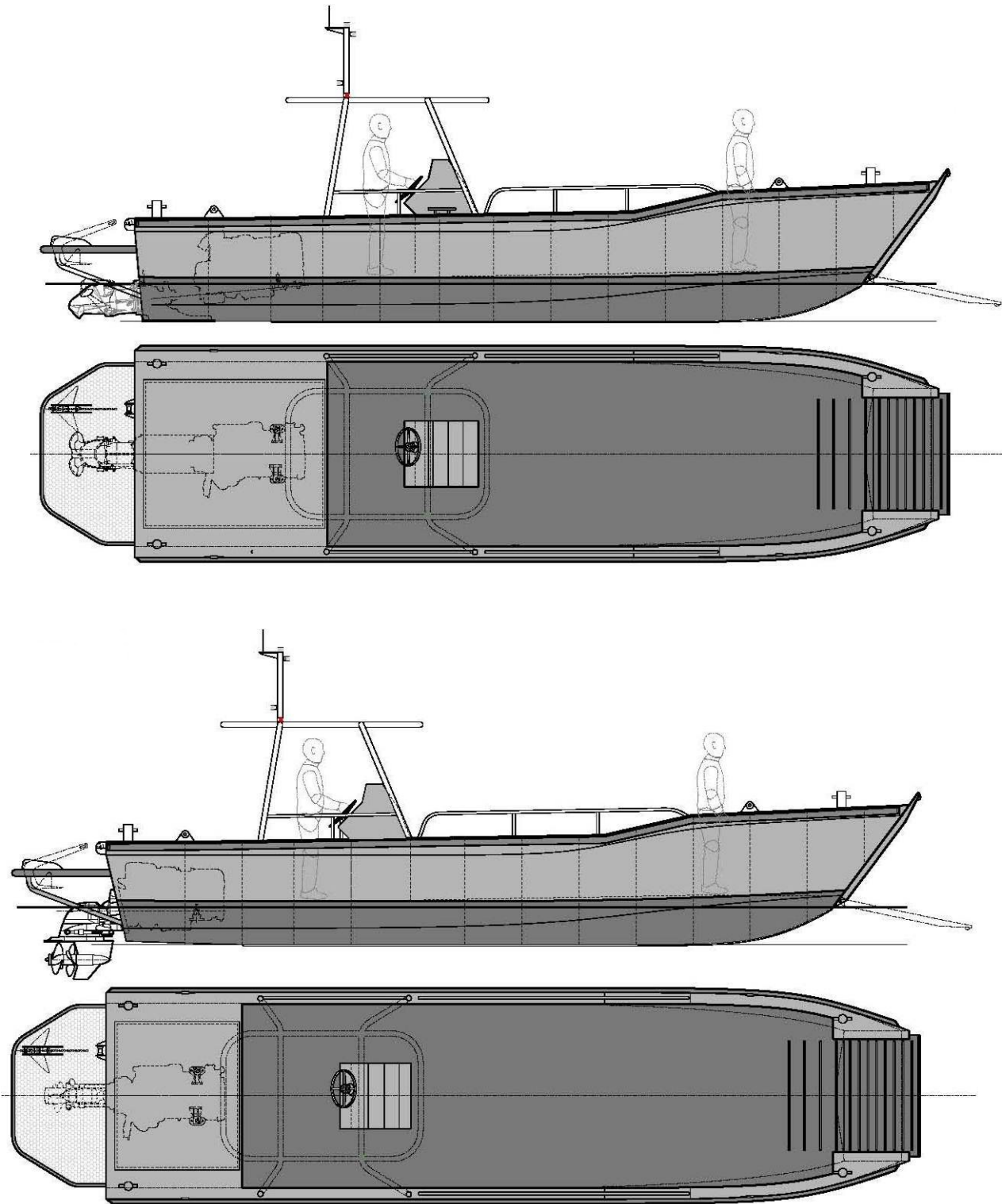
- Marine commercially rated Yanmar 315hp diesel inboard engine for jet drive and stern drive options with twin 150hp Outboard engines (Suzuki, Yamaha or Honda)
- Engine is key start operation.
- Fitted with an integral fuel tank.
- Supplied with an emergency engine kill device/system.
- Fuel line equipped with a fuel water separator & 2 fuel shut off points
- Independent battery isolators
- Sealed maintenance free batteries, secured/housed in waterproofed stowage compartments.
- The vessel is equipped with hydraulic pump steering system.
- Engine housed in an independent waterproof compartment fitted with hinged top access hatch.
- Engine compartment is equipped with an automatic bilge pump.
- Equipped with recessed fuel filling point labeled "DIESEL" for inboard versions and “PETROL” for the outboard version.
- Jet drive option is a Hamilton 274 propulsion unit with stainless steel impellor suitable for local environmental/operating conditions, with Zinc anode protection and sand screen system.
- Jet unit is supplied with heavy duty rake to remove debris.
- Stern drive option is a Yanmar Sterndrive ZT350.

Hull:

- Shallow V shaped hull design, constructed from fully welded 5mm marine grade aluminum.
- Hull is reinforced for beach landing operations.
- Hull is constructed with integral stiffeners with chimes & keel guard.
- Hull is equipped with independent water tight compartments, crash-proof fwd bulkheads.
- Rubber heavy duty D – fendering system fitted along the entire boats length, additional fendering is fitted diagonally in areas likely of impact.
- Hull is fitted with sacrificial Zinc anodes.
- Hull is fitted with high definition transponder unit.

DELTA RESPONDER

TECHNICAL SPECIFICATION



Bow Ramp Door:

- Heavy duty reinforced bow ramp door equipped with electric winch system suitable for lowering and hoisting operations, locking mechanism in the lowered position, also acts as an operators platform in the lowered position with a supporting capacity of approx 200kg.
- Bow ramp door/entrance is wide enough to permit the loading of Polaris 6x6 ATV units or small equipment trailers such as Skidoos.

Cargo Deck:

- Vessel has a large forward open deck space with a load bearing capability of approx 1,450kg.
- Cargo deck is self-draining with a non-slip deck surface & fitted with eight deck lashing eyes.

Fittings:

- Vessel is fitted with lashing cleats mounted: 2 x forward, 2 x amidships & 2 x aft. Additional securing devices/rings for ropes & warps are supplied.
- Fitted with centrally positioned towing bollard, positioned behind the engine compartment.
- Supplied with dry storage compartments (weather proofed and locking).
- Vessel is supplied with 4 lifting eyes.
- Bulwark is fitted with full length heavy duty hand/hold rails.
- Overhead frame (T-top)/mast assembly fitted with the following:
 - 1 x 3m adjustable/removable VHF aerial/whip (fibre glass type).
 - Navigational lights (port, starboard & stern light).
 - 2 x Adjustable overhead 100watt searchlights (1 x mounted forward & 1 mounted aft).
 - UV rated sun canopy system protecting both the steering position/passengers.
 - Mast is equipped with fittings to display maritime shapes & flags.

Console Unit:

- The control console is fitted with a full length windshield.
- Centrally located steering position with captain seat/bench.
- Console is equipped with 2 x Console grab rails.
- The console is fitted with the following comprehensive range of waterproofed switches and electrical breakers and include the following: 12V DC breaker & switch panel, Engine push start, Navigational lights, Electric bilge pump, Overhead spot lights, Horn, Winch system and other electronic devices.
- Console unit is supplied and fitted with the following navigational systems, communication equipment, electrical devices & gauges:-
 - Waterproofed VHF radio complete with PA speaker.
 - Independent illuminated navigational compass.
 - Speed and depth instrumentation/gauges.
- Equipped with portable hand search light fitted with an extension cable.
- All instruments have UV protective covers.
- Console is fitted with 2 x 12 volt electrical output sockets (cigarette lighter type).
- The console has illuminated gauges & warning lights to display the following: -
 - Battery charging gauge, Low oil pressure gauge, Engine temperature gauge, Fuel gauge, Rev Counter & engine hours.

Safety Devices:

- Electric (Primary) and Portable hand (Secondary) bilge pumps.
- Supplied with a Power winch "windlass" type suitably rated & capable of recovering vessel from beach landing operations.
- 1 x life buoy with line.
- 6 x SOLAS approved pneumatic (hydrostatic) manually operated lifejackets (3L & 3XL).
- 1 x safety knife with lanyard (mounted on console).
- 1 x Waterproofed first aid kit (contents housed in waterproofed pelican type case).
- 2 x hand portable powder fire extinguishers (mounted).
- 1 x hand bailer.

Vessel Accessories:

- 6 x mooring warps/ropes (2 x head, 2 x stern & 2 midships ropes).
- 1 x suitably rated galvanized anchor complete with chain and anchor rope.
- 1 x certified 4 leg lifting sling complete with shackles
- 4 x inflatable fendering devices complete with securing lines.
- 1 x waterproofed basic tool kit (contents housed in pelican type protective case).
- 1 x 2 years engine & water jet spares kit.
- 1 x telescopic boat hook.
- 1x heavy duty boat cover (suitable for road transportation with high UV resistance factor).
- 1 x heavy duty console cover and securing cord (high UV resistance factor).

2. Road and launching trailer

- 1 x Twin or Tri-Axle Galvanized braked trailer designed specifically to transport, launch and recover this vessel.
- Trailer is equipped with the following devices:
 - 1 x manually operated parking brake.
 - 50mm hitch (lockable).
 - 1 x Adjustable heavy duty jockey wheel.
 - 1 x Removable Light board (displays: brake lights, indicators, hazard reflectors etc).
 - Emergency brake away cable system.
 - 1 x Hand operated recovery winch.
 - 1 x Spare wheel and carrier (lockable).
- Galvanised chassis for years of trouble free use
- Keel rollers for easy movement of vessel on trailer
- Automatic reverse brakes
- Quick release lighting board on adjustable bars
- Two speed winch, winch strap and hook
- Adjustable winch post
- Soft ride suspension & fully adjustable chassis

3. Spare parts for 2 years operations.

- Filter set 2 off
- Engine impellor 1 off
- Jet unit impellor (If Jet Drive Version) 1 off
- Propeller (If Stern Drive or Outboard Version) 1 set
- Navigation bulbs 2 sets
- Main engine battery 2 off
- Vessel fuses 2 sets
- Vessel anodes 2 sets
- Fuel injection pipe set 1 off
- Trailer winch strap 1 off
- Trailer wheel bearing 1 set

