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RHINO 600 & 750 TITANIUM



Rhino has predominantly supplied extremely robust and virtually indestructible HDPE boats which can handle the abuse associated with the offshore oil & gas and military/navy industry. The boats incorporate design features such as our impact resistant fore peak structures and are essentially designed to be as tough as possible to accommodate the above mentioned markets. We are, however, sensitive to other market demands and through our research and client inquiries, we believe a new design of Rhino craft is necessary to accommodate both our existing markets and other potential markets requiring the robust benefits of a boat constructed out of HDPE. The New Rhino TT has been named the "Titanium Range" as, much like the metal, they will be tough, light and aesthetically pleasing. We currently offer the TT in 6m length (600TT) and 7.5m length (750TT) but will be adding a 9M (900 TT) to the range in due course.

The Rhino Titanium Range has been designed and scrutinised with our naval architects and the design is a culmination of almost two decades of experience in the development of our range of HDPE workboats. This new Rhino craft is an HDPE construction Deep – V mono hull, designed for use as a heavy-duty commercial boat but given its lighter overall mass, it can even be competitive in the recreational boat industry. This new design aims to continue to provide all the benefits of an HDPE construction hull, but with a relatively lighter over-all mass, more cost-effective price, relatively faster fabrication time and importantly, a new sleeker design. These are some of the attributes we have kept in mind when designing this new craft for these new market demands, and the Rhino TT aims to accommodate applications such as a fishing, aquaculture, eco-tourism, security, personal transfer, tender, survey, diving, general workboat, recreational boat and more.





RHINO 600/750 TT BOAT STRUCTURE

*COMPLETE HDPE RHINO 600/750 TT DEEP V HULL;
RUBBER BOW D-FENDER;
BOW STORAGE COMPARTMENT;
GUNWALE STORAGE COMPARTMENTS;
STAINLESS STEEL CLEATS FWD AND AFT;
LIFTING PAD-EYES;
WEBBED SLING LIFTING ARRANGEMENT WITH SHACKLES;
TOWING PAD-EYE;
GRAB RAILS;
WORK-SAFE RUBBER DECK MATING;
DUCTING, SCUPPER FLAPS & BUNGS.*

**OPTIONAL SEATING ARRANGEMENTS*

**OPTIONAL CONSOLE ARRANGEMENT: SIZE & POSITION*

**OPTIONAL T-TOP CANOPY*

RHINO 600/750 TT SPECIFICATIONS

CLASS/CATEGORY: APPLICATION DEPENDANT

PROPULSION: SINGLE/TWIN OUTBOARD MAX REC 150 HP

SPEED RANGE: MAX REC 40 KNOTS / 75 KM/H

FUEL: GASOLINE/DIESEL Optional 2 x 30 L built in fuel tanks*

MATERIAL: HDPE

ISO CATEGORY: C

LENGTH OVERALL: 5.88m (600TT), 7.25m (750TT)

BREADTH: 2.2m

DEPTH CONSOLE TO KEEL: 1.68 m

LIGHT DRAFT: 0.345 m

DRY WEIGHT: 880 KG (600TT), KG (750 TT)

RECOMMENDED MAX PAYLOAD: 2,200KG (600TT), KG (750TT)

MAX PERSONNEL: 5 (600TT), 7 (750TT)

SHIPPING SPEC: CONTAINER 20FT(600TT), 40FT (750TT)



GRP CONSOLE LAYOUT

BOAT LAYOUT

The 600/750 TT has an open deck scenario and walk around console which allows for optimised deck space. The deck is completely HDPE which has been extrusion welded to the rest of the boat structure, providing a solid platform. The increased deck space coupled with the pay load capacity allows the boat to operate with a decently sized load if required. The boat can be supplied with additional seats and or seating arrangements depending on the requirements of the customer. We also offer the option for installation of a T-Top canopy arrangement.

The basic 600/750 TT layout is priced standard with a GRP fiberglass console with jockey seat, acrylic visor, s/s grab-rails, dash panel, steering & basic electrics.

The boat can also be supplied with a double GRP fiberglass console and aluminium consoles.

Console price includes:

- GRP jockey console seat arrangement
- Electrics and Hydraulic steering
- Acrylic visor and dash panel
- Stainless steel grab rails

OPTIONAL: T-Top canopy, single point quick-release lifting arrangement, suspension seats, propulsion systems and engine protection frame.



PRICE ON ENQUIRY FOR:
ALU CONSOLES, T-TOP, SEATING,
& SINGLE POINT LIFTING LAYOUTS





STEERING SYSTEM

The Rhino 600/750 TT is supplied with a SeaStar Hydraulic Steering System for use with single or twin engine installations.

- Steering Wheel
- Helm Pump
- Hydraulic Tubing & Fittings
- Hydraulic Fluid
- Steering Tie Bar



ELECTRICAL SYSTEM

The Rhino 600/750 TT is supplied with a 12V electrical system including:

- 6 gauge marine fused switch panel
- Electric cables, wiring & connections
- Marine 12 V output socket
- Port & starboard navigation lights
- Bilge pump with auto switch
- Starter/Auxiliary batteries not included



FUEL SYSTEM *optional

The Rhino 600 TT can be supplied with two built in aluminium fuel tanks each with a thirty litre capacity. Included in the optional fuel system:

- 2 x 30 L Aluminium Fuel Tanks
- 1 x Fuel Filter/Water Separator
- Fuel lines, connections and valves

NAV/COM SYSTEM*optional

The Rhino 600 TT/750 can be supplied with navigation and communications equipment including an integrated Raymarine GPS & VHF system:

- Raymarine Element 7" Display
- GPS and Sonar capability.
- Transducer
- Ray53 VHF radio with integrated GPS.

*Optional additional hand held radio

*Optional AIS receiver/transceiver





OUTBOARD PROPULSION - GASOLINE

The Rhino 600/750 TT can be supplied with single or twin outboard engines with gasoline propulsion. For operating at max power, we recommend a single 150 HP out board engine or a twin 75 HP outboard engine installation. We have successfully conducted 600TT sea trials with the twin 85 HP engines and attained a speed of between 35-40 knots.

For a single outboard installation we recommend the Yamaha four stroke 150HP Commercial Outboard Engine.

For a twin installation we recommend Yamaha F75 four stroke 75 HP Outboard Engines.

When supplying boats with Yamaha Outboard Engines, the following is included with the installation:

- Electric start trim/tilt 4-stroke Yamaha Outboard Engine
- Yamaha propeller
- Yamaha 704 single/dual top mount controls,
- Yamaha looms, gauges, cables and cable ends
- Yamaha ignition switch with kill switch
- Yamaha rigging kit

Mercury & Suzuki outboard engines can also be supplied.





OUTBOARD PROPULSION - DIESEL

The Rhino 600 TT can be supplied with a single OXE diesel outboard engine. For operating at max power we recommend a single OXE 150 HP outboard installation. We have successfully conducted sea trials with the above-mentioned engine and attained a speed of between 30-35 knots. The Rhino 750 TT can be supplied with twin OXE outboard diesel engines.

When supplying boats with OXE diesel outboard engines, the associated OXE cables, controls, display etc. will be supplied and installed as detailed below:

- OXE G3 Helm harness 10m;
- 1/2NMEA power cable;
- Control head Dual CAN-bus;
- Engine display 7";
- Display harness 7" & 3,5";
- Micro T-contact;
- Micro Terminator female;
- Micro Terminator male;
- Battery Cable Kit 5m;
- Single/Dual ignition switch w/kill switch;





RHINO 600/750 TT

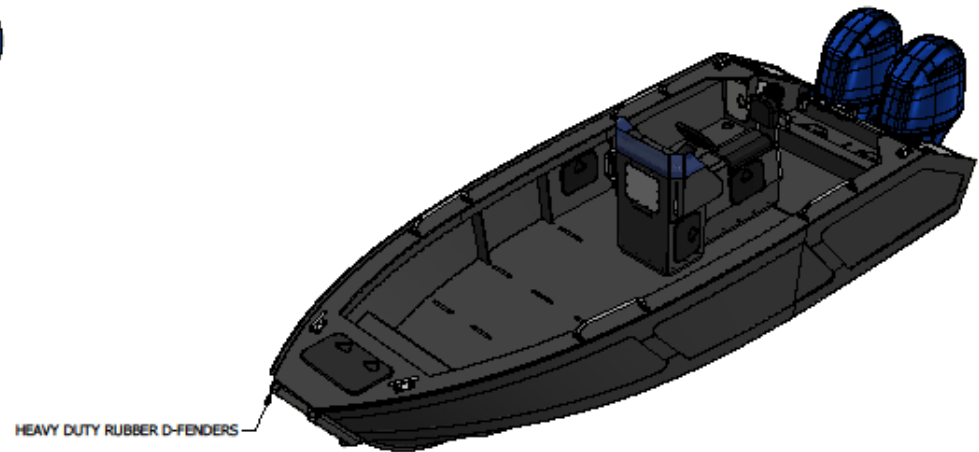
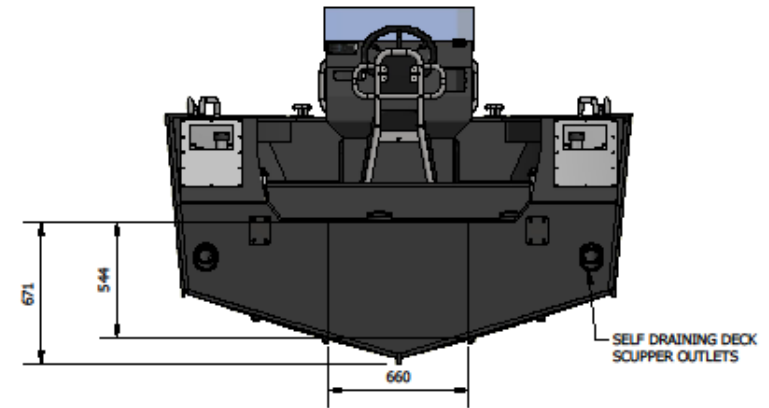
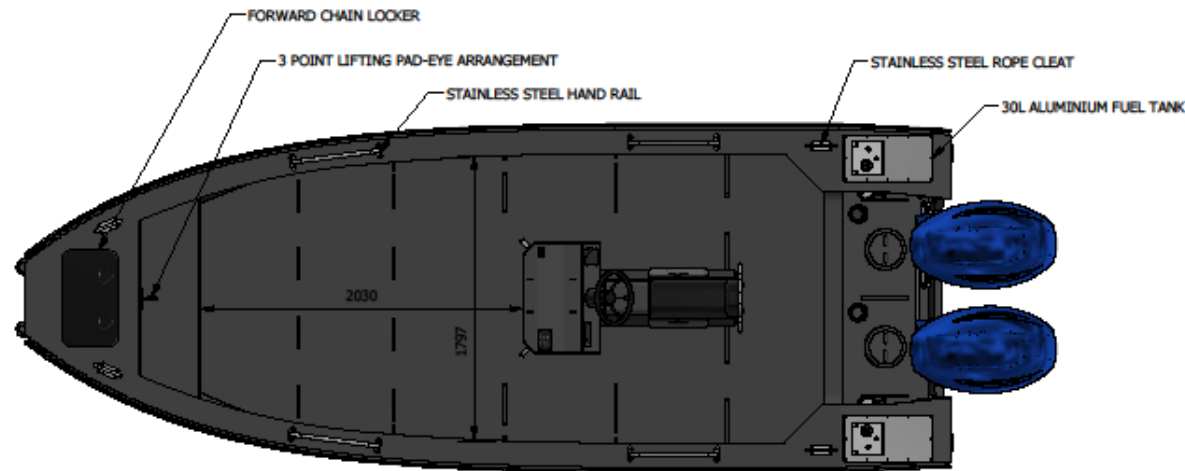
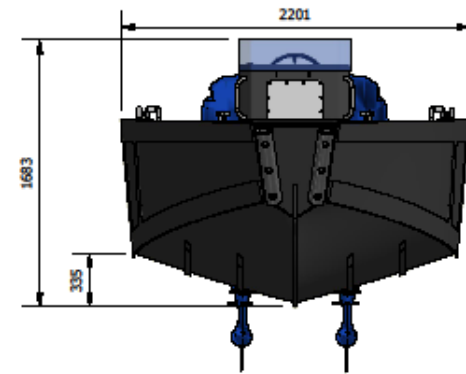
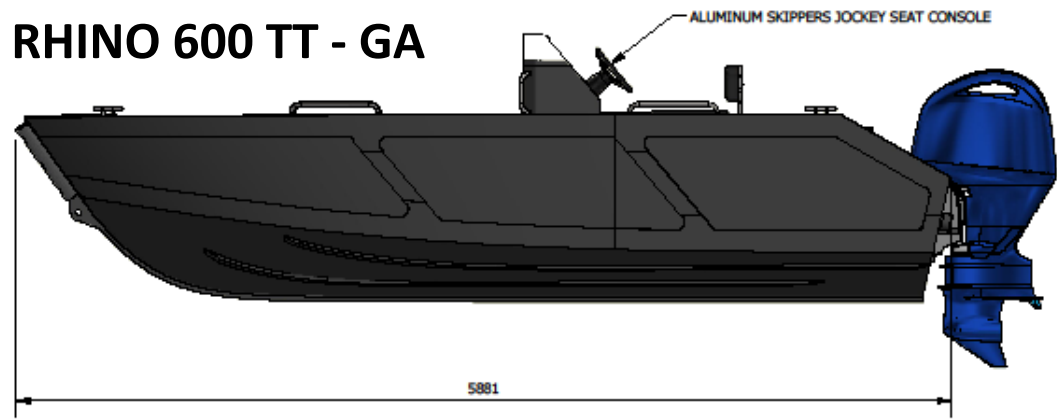
Rhino boats are designed using computer-assisted design software called Autodesk Inventor. This program provides Rhino designers with a tool which can produce accurately scaled three dimensional models of the various designs. Once a design is completed the model is checked by a consulting Naval Architect to ensure water-worthiness. This is done using specialised software which conducts several calculations and tests upon the model. Such tests ensure that the boats, once fabricated, will be able to perform to the predetermined design specifications. Provided all the tests conclude satisfactorily, the three-dimensional model will then be converted into several 2D AutoCAD part and fabrication drawings. These drawings will comprise of all the parts and assemblies which are required to assemble the final product.

The 2D AutoCAD drawings from the design phase are programmed into an on-site CNC cutting machine. The CNC cutting machine is used to cut HDPE parts, required to fabricate our boats, from various thicknesses of sheet HDPE.

Specialised jigs have been designed and produced in order to speed up the manufacturing process. The jigs are designed to hold either the bulkhead framework in place while external underside parts such as the hull, transom and bulwarks are extrusion welded together. Once the underside of the superstructure is completed, the partially completed boat is flipped over and the rest of the HDPE superstructure is extrusion welded together to create and complete the Rhino workboat.



RHINO 600 TT - GA



RHINO 600TT SPECIFICATION

CLASS	WORK BOAT
MATERIAL	HIGH DENSITY POLYETHYLENE
ISO CATEGORY	CATEGORY C
LENGTH OVERALL	5.88 m
BREADTH	2.20 m
DEPTH - CONSOLE TO KEEL	1.68 m
LIGHT DRAFT (TBC)	335 mm
DRY WEIGHT	880 kg
PRELIMINARY MAX PAYLOAD (2 CREW)	2,200 kg
PRELIMINARY MAX PERSONNEL (NO PAYLOAD)	5 PAX (1 OPERATOR AND 4 CREW)
SEALED BUOYANCY COMPARTMENTS	3
TRANSOM HEIGHT (AT CENTRE / AT 660 CENTRES)	671 mm / 544 mm
PRELIMINARY MAX SPEED (SINGLE 150HP OR TWIN 70HP)	34 KNOTTS

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THE SPECIFICATIONS PROVIDED HERE ARE NOTIONAL AND ARE SUBJECT TO CHANGE AT THE DISCRETION OF RHINO MARINE PRODUCTS.

PRELIMINARY MAX PAYLOAD CONTAINS APPROXIMATE ADDITIONAL WEIGHT ALLOWABLE ON THE CRAFT AND INCLUDES ENGINES, FUEL, EQUIPMENT AND PERSONNEL.

PRELIMINARY SPECIFICATION SHEET

PROJECT: RHINO 600 TT		DRAWING: GENERAL ARRANGEMENT	
DATE 30/10/2020	DRAWN BY S P C FORREST	DRAWING NO. R600 TT - CSS	REV. 0
CHECKED		PART OF ASSY. NO.	PROJ.
		ORIGINAL SIZE A3	
www.rhinomarineboats.com		SCALE NTS	