

Over ProZero & Van Dyke Marine

De ProZero-serie van Tuco Marine staat voor toonaangevende kwaliteit en maatwerk in high-performance werkboden en crew transfer vessels. Elke boot wordt ontworpen op basis van uw operationele eisen, met een doordacht design en bewezen technologie. Het resultaat: maximale snelheid, brandstofefficiëntie en veiligheid, zelfs onder de zwaarste omstandigheden.

Van Dyke Marine is vertegenwoordiger van ProZero in de BeNeLux en begeleidt klanten volledig: van eerste advies en ontwerp tot levering, onderhoud en service.



VAN DYKE MARINE

Vertegenwoordiging in de
BeNeLux van

PROZERO
WORK BOATS

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PRO:ZERO
Fast Boats for Professionals



PROVEN TECHNOLOGY
DEFENCE BOATS



At Tuco we specialize in fast boats for professionals. Every day we work to set the standard in innovative lightweight maritime constructions and supreme material technology. We strive to deliver durable solutions that reflect and support the development of a safe, sustainable and prosperous future in maritime logistics.

Customers can rely on Tuco as a loyal partner that draws on intimate market knowledge, expert craftsmanship and years of experience with successful deliveries to ensure more than just customer satisfaction.

#weloveworkboats



PRO:ZERO

The ProZero series is a range of fast boats designed specifically for professional use. They are built to endure the harsh conditions of operations on open sea while providing the operator with an ideal work environment.

With advanced design and sophisticated application of composite materials, the ProZero series offers the customer significant commercial benefits and enhance overall vessel performance and energy efficiency. The ProZero range covers Offshore, Workboats and vessels for Security & Defense.

#weloveworkboats

PRO:ZERO

CONSTANTLY EVOLVING

The ProZero vessels represent the cutting edge of a development process that constantly aims to balance technology innovation, customer demands and industry trends.

This process took flight in 2002 when TUCO launched the first vessels of the now superseded AluGuard series. These vessels have proven themselves over years of service and have benefitted many satisfied customers. Furthermore, our key proficiencies have been tried, perfected and validated through contributions to several large-scale, both national and international, development projects. The technical, empirical and commercial insights and accomplishments gained during many years in the business have been condensed and applied in our state-of-the-art ProZero vessels.



Flexible construction

Construction with a purpose. Know-how and expert engineering at the service of unique client demands.

HISTORY OF TUCO'S PROZERO BOATS



PROVEN TECHNOLOGY

The ProZero series of boats is the quintessence of years of experience. Building on well-consolidated technology and Tuco's long and productive history in the industry, the ProZero boats provide unrivaled safety, performance and comfort.

We are the trusted supplier of many customers and have delivered vessels to both private organizations, shipyards and governmental institutions.



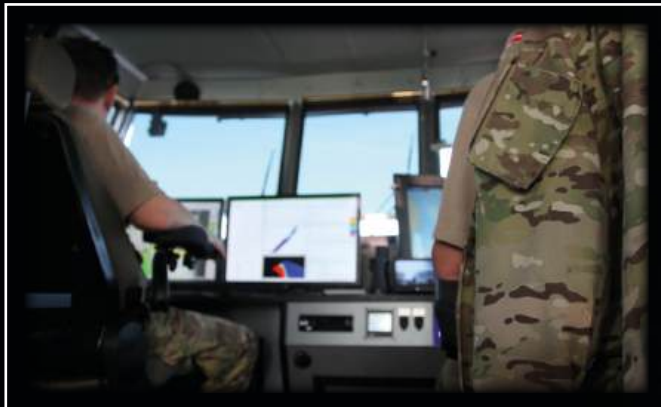
Efficient and proven hull

Matchless strength-to-weight and seaworthiness. Shaping first-class hulls with precision technique and cost-effective production.



Low consumption

Minimized operating costs and improved environmental impact. For a sustainable and prosperous future.



PRO:ZERO



PROVEN TECHNOLOGY

PRO:ZERO



NAVY BOATS

8M CC INTERCEPTOR

8M CC INTERCEPTOR

The 8-metre ProZero Center Console Interceptor is built on the proven, reliable and extremely seaworthy ProZero hull platform. The boat is strategically sized and carefully equipped for high-speed security and patrol missions in coastal and offshore waters.

The 8m ProZero CC Interceptor is the short-length successor to the 12m ProZero Interceptor and lives up to the same high commercial standards. Good ride quality and ergonomics is key to enduring exhausting high-speed missions, and the 8m Center Console is designed to provide just that. With its non-stepped, variable deadrise deep V-bottom hull featuring good forward entry, a flared bow, wide chines and lifting strakes/spray rails, the hull provides a safe and reliable base for high-speed operations and will tackle even very agitated sea states.

Particular attention has been paid to crew comfort, shock mitigation and safety during high-speed and boarding missions while enhancing mission-capability and preserving structural rigidity, integrity and strength. The Center Console deck layout provides flexibility and room for a variety of missions and boarding situations. The deck layout is adjustable and can be transformed through built-in cargo rails into mission-specific environments with shock mitigating seating arrangements, weapon mounts or extra cargo areas.



PRO:ZERO

NAVY BOATS

8M CC INTERCEPTOR



PATROLLING AT ULTRA HIGH SPEEDS

Top speed at the harshest of seas

The 8m cc interceptor is designed for high speed and safe transport at the harshest of seas, with room for up to 10 passengers and a maximum speed of approx. +40 kt. The boat is significantly lighter than the market average which benefits fuel consumption and adds to the already proven seaworthiness.

Hull, deck and superstructure

The boat is made of a combination of glass- and carbon fibre as sandwich construction with PVC as core material. This core material acts as a natural buoyancy reserve material, due to its lightweight and zero water-absorption. Moreover, the sandwich construction avoids the use of internal stiffeners, increasing the usable internal space and offers a natural insulation capability, improving the comfort in the cabin and manned compartments.

Fender

The fender is constructed of closed cell polyethylene foam. Not deflating with solid core that cannot lose buoyancy or absorb water. Damage is strictly cosmetic keeping crew safe. Fender system absorbs major impacts and retains integrity and shape. The ProZero fenders profile gives substantially more interior room than a comparable RIB.

Deck

Decks are self-bailing.
Deck surfaces are treated with antislip
Metallic mooring bollards.
Lashing points on decks for equipment.
Protection bar on the transom for engines protection.
Seats for 10 persons

Steering console

Composite console optimized for maximum ergonomic to ensure a safe and stable platform with all instruments within reach
Windshield to protect crew
Handhelds to protect crew



Flexible construction

Construction with a purpose.
Know-how and expert engineering at the service of unique client demands.



Efficient and proven hull

Matchless strength-to-weight and seaworthiness. Shaping first-class hulls with precision technique and cost-effective production.

PRO:ZERO



NAVY BOATS

8M CC INTERCEPTOR

TECHNICAL

Engines, propulsion, steering etc.

2 x outboard petrol engines.

Tanks

Stainless steel petrol tank with hatch and filling protection.
Capacity: 400l

Electrical system & lighting

All electrical wiring in marine cable.
Shore power with control lamp, marked fuses, earth connection and shore cable.
Main switches with separate battery systems for start, navigation and consumption.
Battery charger with indicator.
Navigational lights.

Navigation & electronic equipment

Electric engine controls. Complete engine instruments with RPM, temperature, oil pressure and voltmeter for start batteries supplied by engine manufacturer.
Rudder indicator
Fuel gauge.
Control panel for all lighting and other electrical equipment.
1 x magnetic Compass
1 x electric horn
1 x fixed VHF

Security equipment

Manual and electrical bilge pump.
Portable fire extinguishers.

Safety

Safety equipment specified in applicable CE rules



Unmatched strength

Confront the elements with confidence. Built for strength, safety and durability.



Low consumption

Minimized operating costs and improved environmental impact. For a sustainable and prosperous future.

PRO:ZERO

12M MULTIMISSION BOAT

Designed for speed, agility and comfort

The 12m ProZero multimission boat is a fast vessel designed specifically for speed, agility and comfort. The vessel can perform a wide variety of missions, including personnel transfer and hydrographic missions.

Exceptional seakeeping capabilities

The design of the fore and aft deck ensures quick and safe accommodation of passengers in the cabin and cargo on the foredeck.

The sleek and deep v-bottom of the boat secures a stable ride and provides the boat with exceptional seakeeping capabilities which contributes even further to crew comfort.

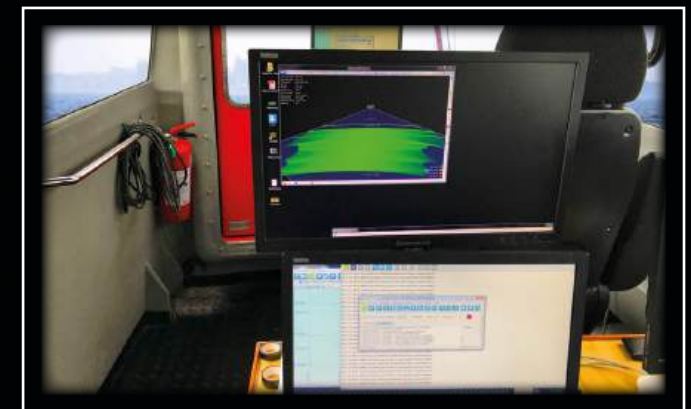
Reduction in fuel consumption and emissions

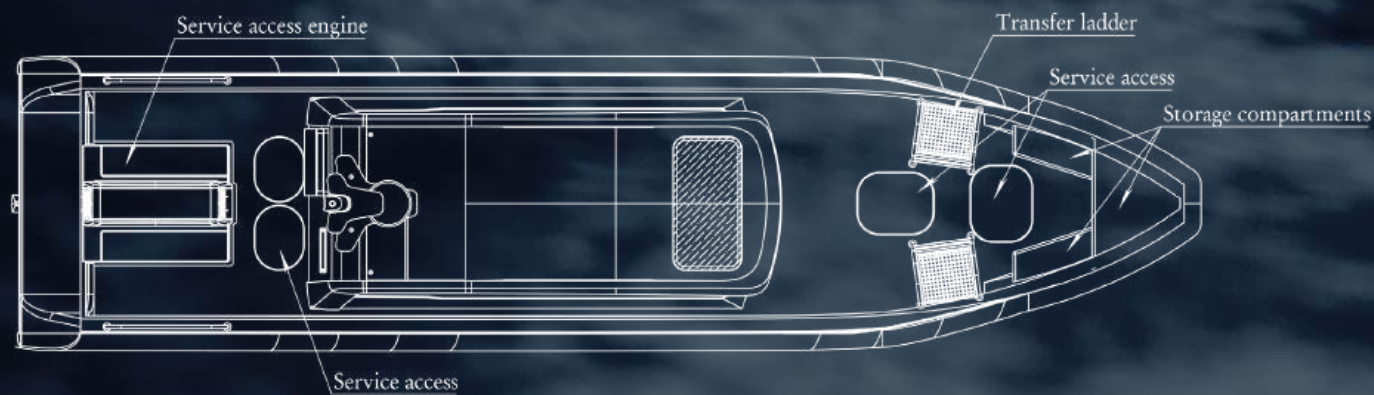
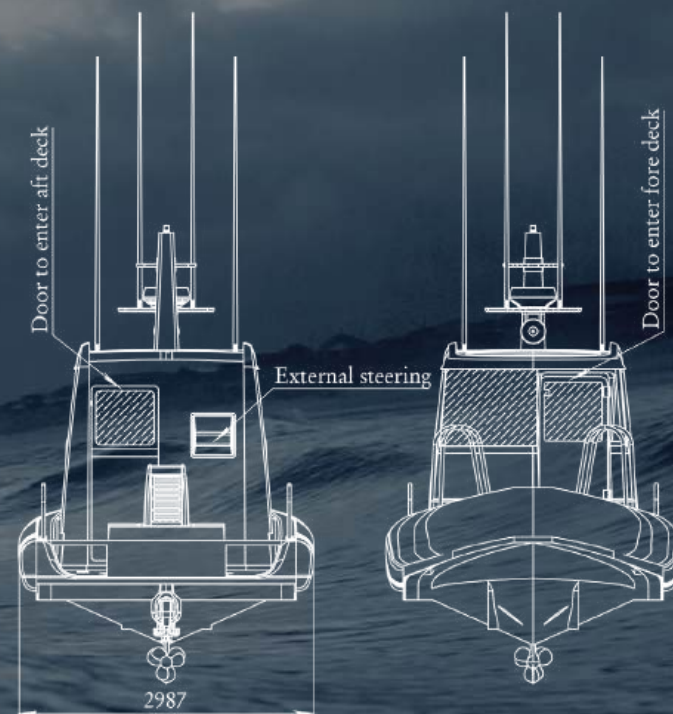
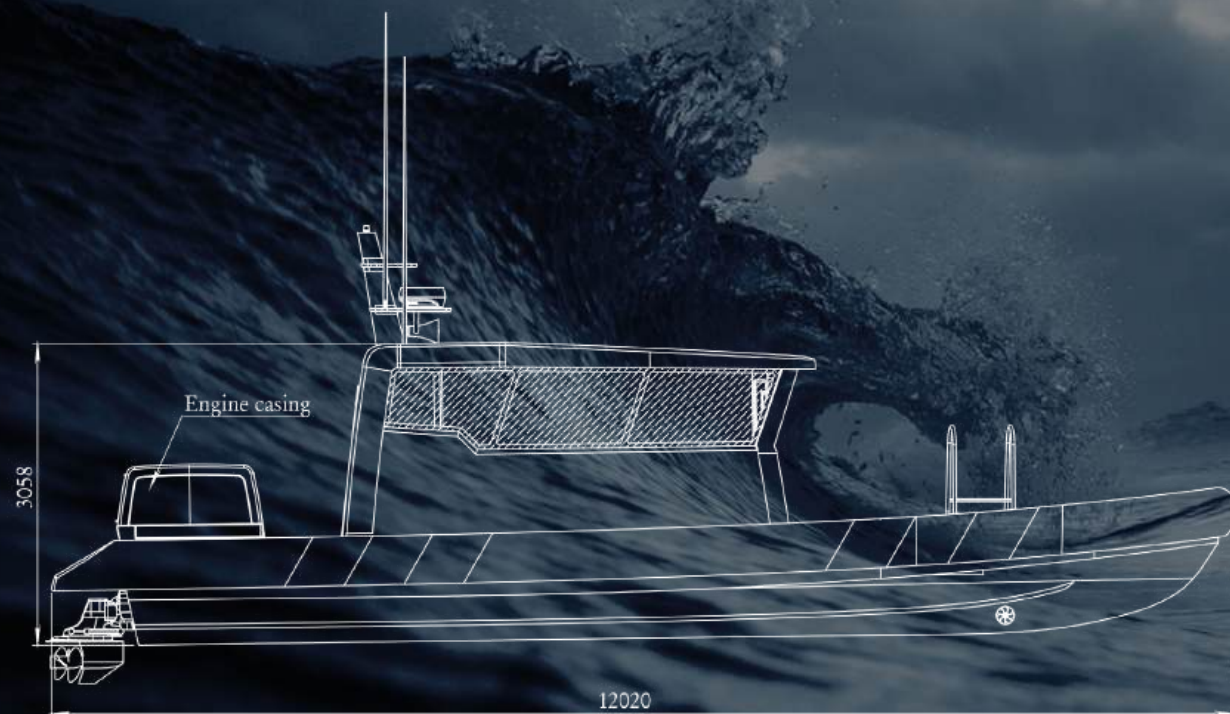
The vessel is made from composite materials and is equipped with aluminium railing. Smart material selection contributes to significant weight reductions and the low weight translates directly into impressive reductions in fuel consumption and emissions. In addition, the strong and durable composite materials are non-corrosive and virtually maintenance-free which cuts the cost of ownership.



NAVY BOAT

12M MULTIMISSION BOAT





PRO:ZERO



NAVY BOAT
12M MULTIMISSION BOAT





**INTERIOR
DESIGN**

PRO:ZERO



14M HYDROGRAPHIC SURVEY BOAT

Efficient surveys under changing weather

The 14m subsea survey boat is designed to accommodate workspace for 2 subsea specialists in addition to the helmsman's workstation. The design enables efficient surveys under changing weather conditions and the hydrodynamic profile of the hull minimizes turbulence that can interfere with the highly sensitive measuring equipment.

Advanced sonar equipment

The advanced sonar equipment is recessed into the hull structure to protect it against adverse conditions. The equipment includes high-performance sensors and processors that can capture the signals, manage multiform data streams and constantly produce and store high-quality information that truthfully represents the sea floor.

Designed with acute attention to ergonomics

The cabin has been designed with acute attention to ergonomics and working environment. Noise insulation ensures comfort and easy communication under all operating conditions and the layout has been organized to facilitate workflow coordination, both during the missions and during transport to and from the sites. The cockpit layout is arranged to maximize the use of state-of-the-art operations management equipment and electronic aids for situational awareness.

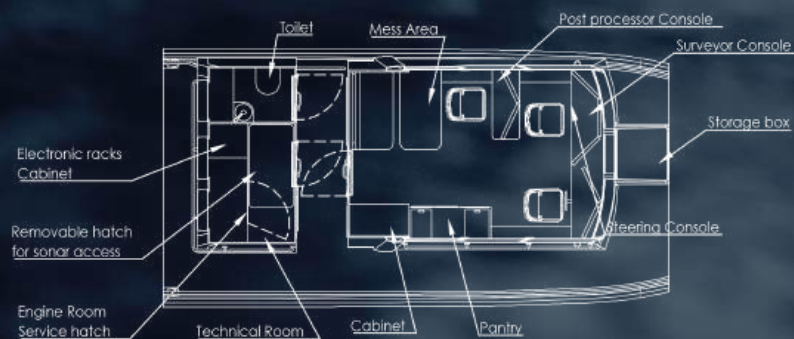
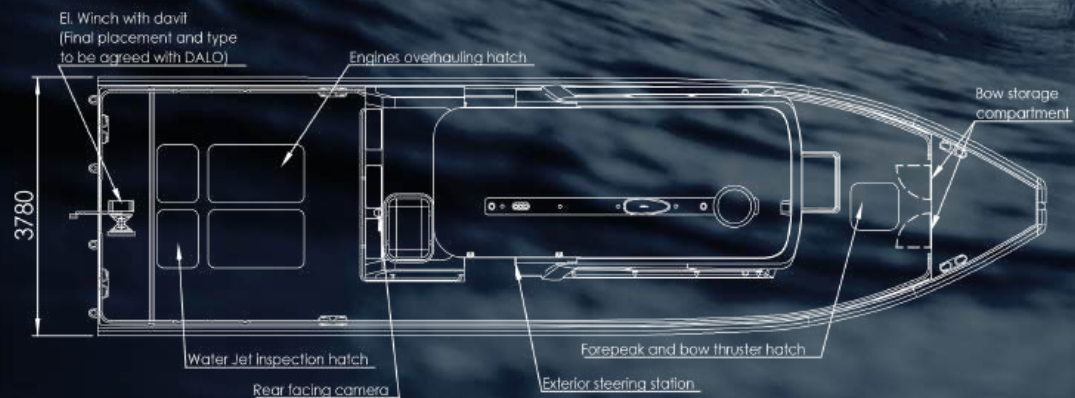
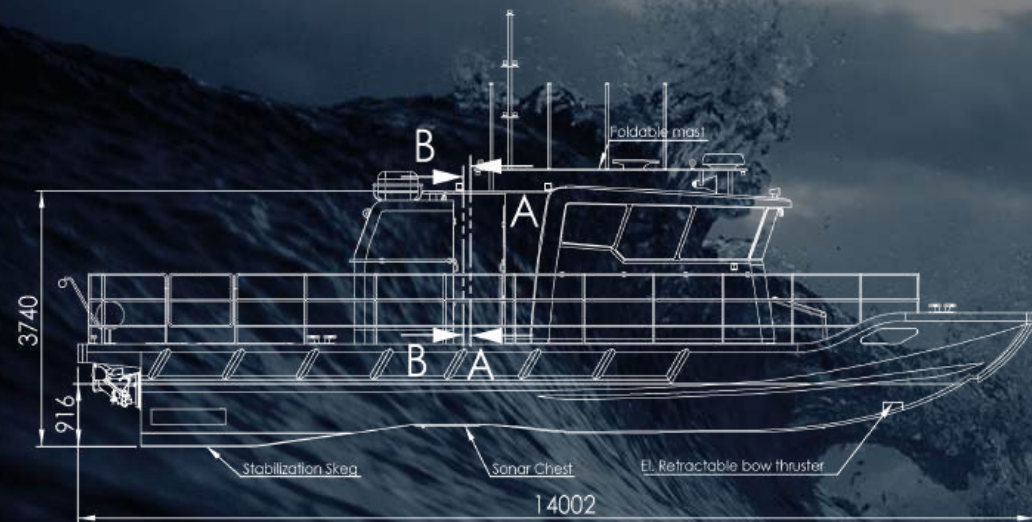


Unmatched strength

Confront the elements with confidence. Built for strength, safety and durability.

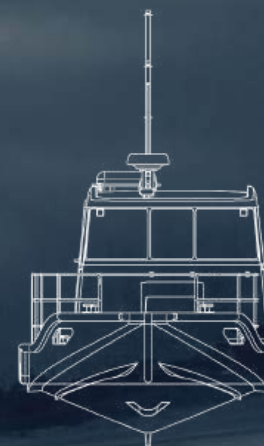
HYDROGRAPHIC BOAT

14M HYDROGRAPHIC SURVEY BOAT

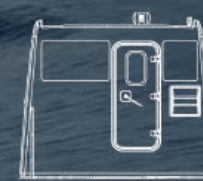


Cabin Interior

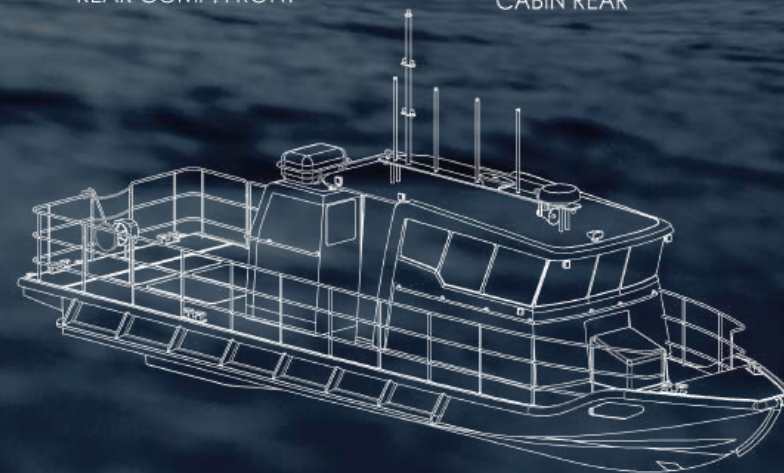
(Final interior layout to be customized to user requirements)



SECTION A-A
REAR COMP. FRONT



SECTION B-B
CABIN REAR



PRO:ZERO



HYDROGRAPHIC BOAT
14M HYDROGRAPHIC BOAT

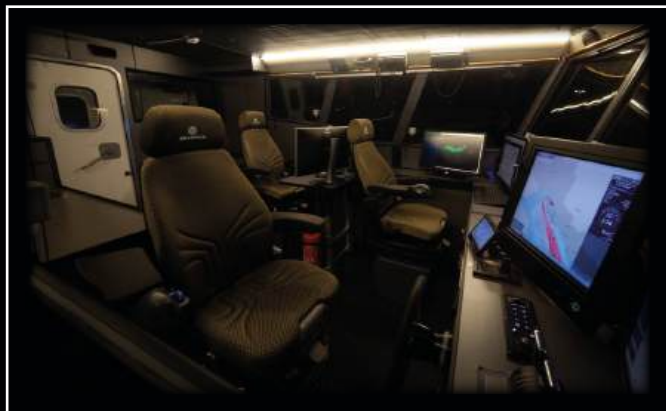
INTERIOR DESIGN

The cabin offers great comfort and is equipped with an adjustable heating system, an air-suspended driver's seat, ergonomic passenger seats and state-of-the-art electronic equipment.



Comfortable cabin

Attending to the human factor. Functional, bright and ergonomic working conditions with noise insulation for ease of communication.



PRO:ZERO

INTERIOR DESIGN
TRIPLE WORKSTATION LAYOUT

PRO:ZERO

PROZERO USV TECHNOLOGY

The USV hull is made of a combination of glass and carbon fiber and combined monolithic and sandwich construction with PVC as core material. Moreover, the construction minimizing the use of internal stiffeners, increasing the usable internal space.

The ProZero USV series is a series of extremely rugged and durable, offshore USV's build to survive and operate in the toughest conditions and provide its operators with reliable data and surveillance information.

Tuco Marine Group have been a part of the Horizon 2020 ENDURUNS project consortium consisting of highly specialized partners such as Comex, Engitec Systems International and Altus LSA. The main ambition of the ENDURUNS research and development project have been to develop an integrated hybrid AUV system capable of operation under deep ocean conditions and performing a wide-range of missions, targeting the increase scientific knowledge as well as industrial capability and performance.



USV RANGE

8M PROZERO USV

The 8m USV is based on the well proven ProZero hull platform, built in composite materials and features a double engine installation for maximum redundancy. The vessels feature specialized technology and remote-controlled deck equipment that enables the vessels to operate at sea without humans onboard for several months.

The ProZero USV's have exceptional track records of harsh environment operations, such as the 8m ProZero USV operating from Dec. 2021 to May 2022 in the Danish "Kattegat" and in the period effectuated 6x 30days 24/7 data collection circles, of DNV certified data. - Well proven USV concept from 6 to 12 meters.

Remarkably the period saw two major storms in Denmark. 29-30th of January 2022 the Storm Malik, reached 40ms pr second and closed major bridges and coursed severe flooding of large areas in Denmark. On the 18th of February 2022 the storm NOAH reached Denmark with 37,4ms and in "Kattegat" the 8m ProZero USV operated right through these storms.



PRO:ZERO



PRO:ZERO



USV RANGE

10M PROZERO USV

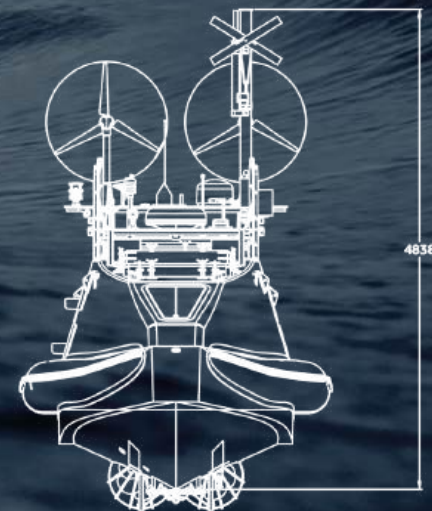
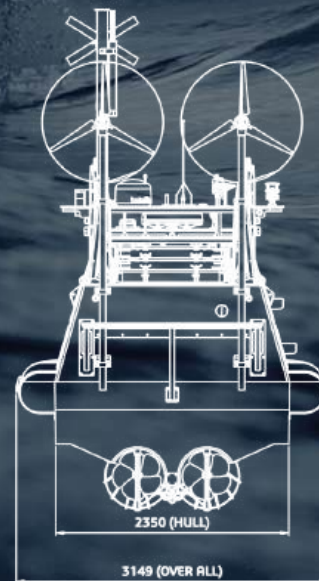
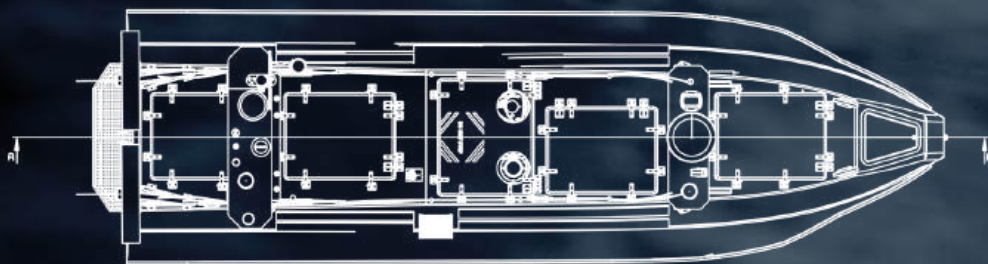
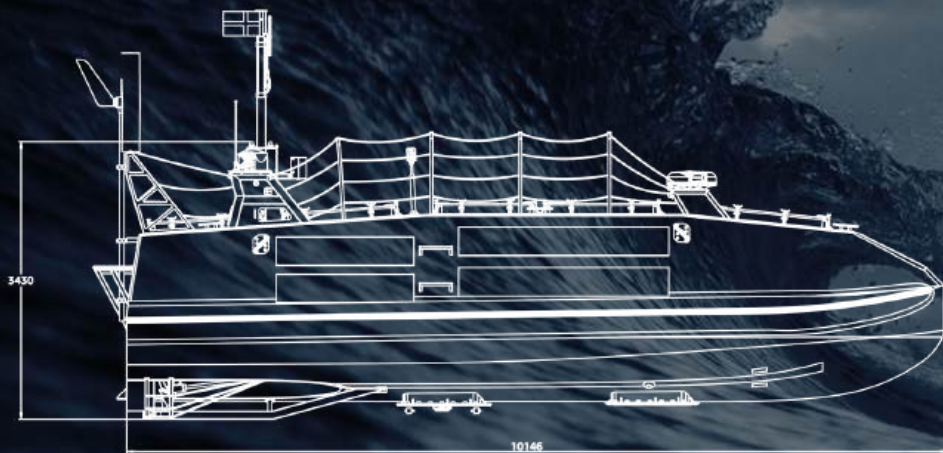
10M PROZERO USV

The ProZero 10M USV is a cutting-edge unmanned surface vessel, meticulously designed for robust performance and versatility. With an overall length of 10.5 meters and a hull width of 2.4 meters, this vessel combines compact dimensions with exceptional functionality. The total width measures 3.1 meters, accommodating a variety of equipment and operational needs. The design draft is set at 1.0 meter, ensuring optimal balance and stability, with a deck height from the keel of 2.4 meters.

The height above the waterline, including all masts, antennas, and equipment, reaches up to 4.0 meters, while the minimum height above waterline is 2.3 meters. For transportation purposes, the total height can be reduced to 3.3 meters by removing the GRP mast and turbines.

The ProZero 10M USV is equipped with a 3,200-liter fuel tank and features an advanced battery setup that includes 8 pieces of 12V batteries, ensuring reliable and long-duration operations. The vessel's lightweight is 8,966 kg, supporting a dead weight of 5,833 kg, which includes fuel and anchoring equipment. The displacement stands at 14,799 kg, indicating its substantial carrying and operational capability.





PRO:ZERO



USV RANGE

10M PROZERO USV



USV CAPABILITIES

The hull of the ProZero 10M USV is crafted from solid laminate for durability, with both the deck and internal structures utilizing composite materials for strength and lightness. The vessel's GRP structure is integral to its integrity, emphasizing the need for specialized maintenance and modifications with manufacturer consultation.

For operational efficiency, the vessel features double engines with advanced fuel supply management, including quick-close valves and filter selection valves, all integrated into the vessel control system. Bilge management is sophisticated, with each compartment equipped with both primary and high-capacity pumps, alongside level sensors for comprehensive fluid management.

The engine room benefits from efficient ventilation via the hydraulic oil cooler fan, essential for maintaining optimal operating conditions. Technical and payload compartments are outfitted with double dehumidifiers and dedicated AC units to ensure equipment functionality and longevity. Additionally, the vessel boasts five seawater intakes for cooling various systems, emphasizing the importance of regular maintenance for optimal performance. The vessel's adaptability is further enhanced by the ability to lower or remove masts and deck equipment.

SAFETY SYSTEMS

Safety is paramount on the ProZero 10M USV, featuring a fixed firefighting system that encompasses aerosol generators, temperature sensors, and heat detectors across key compartments. This comprehensive system ensures rapid response to any fire incidents onboard.

Overall, the ProZero 10M USV represents a huge achievement in unmanned surface vessel design, offering both advanced technology, operational flexibility, and safety features for a wide range of maritime applications.

PRO:ZERO



PRO:ZERO



PROZERO 8M ISR

The ProZero 8m ISR is the ultimate solution for Intelligence, Surveillance, and Reconnaissance operations. This state-of-the-art unmanned vessel is specifically designed and expertly crafted to perform exceptional missions in any marine environment. With a custom Mast array carrying all of the antennas, radars etc specified by the client, this will be perfect for any and all use cases required. Whether it is for monitoring a coastal border, a maritime asset, or conducting reconnaissance missions, this vessel is a go-to tool for precise and timely data collection.

The ProZero 8m ISR is engineered to handle even the toughest conditions with ease. Its advanced propulsion system, combined with precise maneuvering capabilities, ensures that it can operate in any type of marine environment, providing a comprehensive view of the surroundings.

Built to last, the ProZero 8m ISR vessel is constructed using the latest in composite materials, making it highly durable and low-maintenance. Its sleek and innovative design also allows for customization to meet specific needs, making it the perfect solution for all ISR operations.

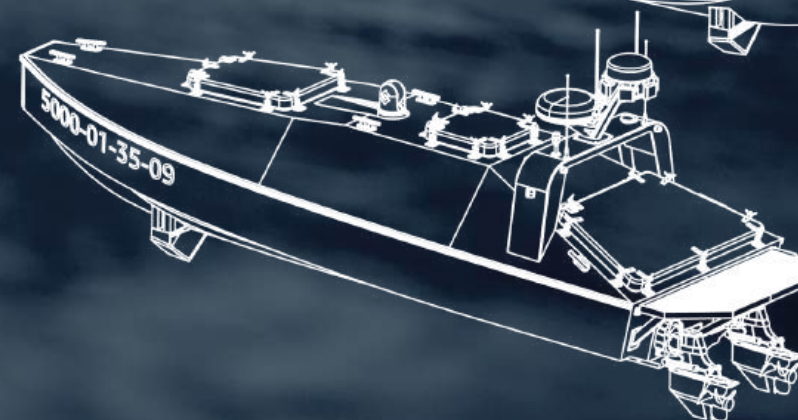
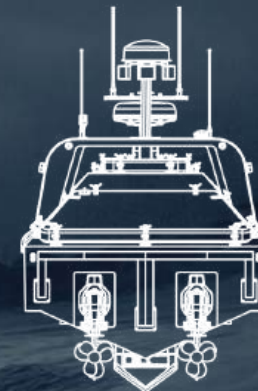
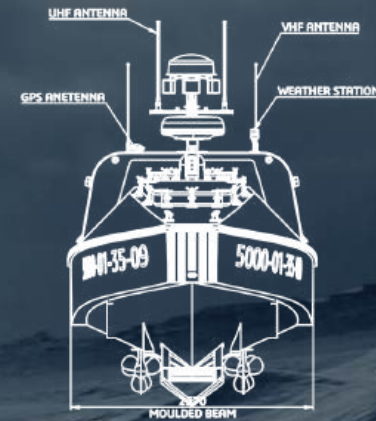
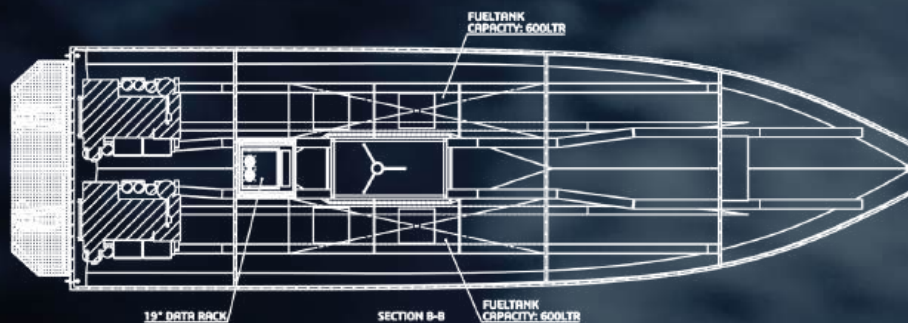
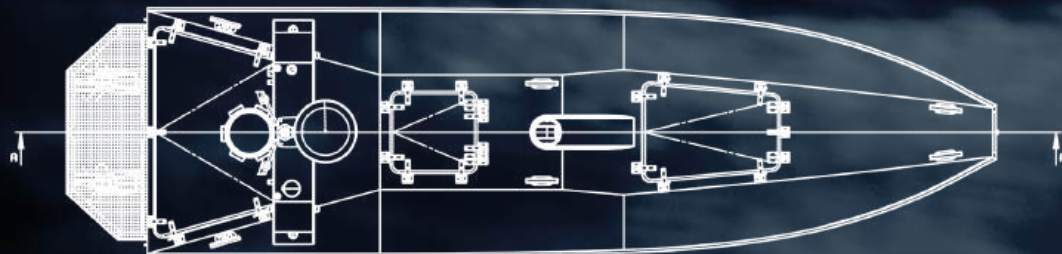
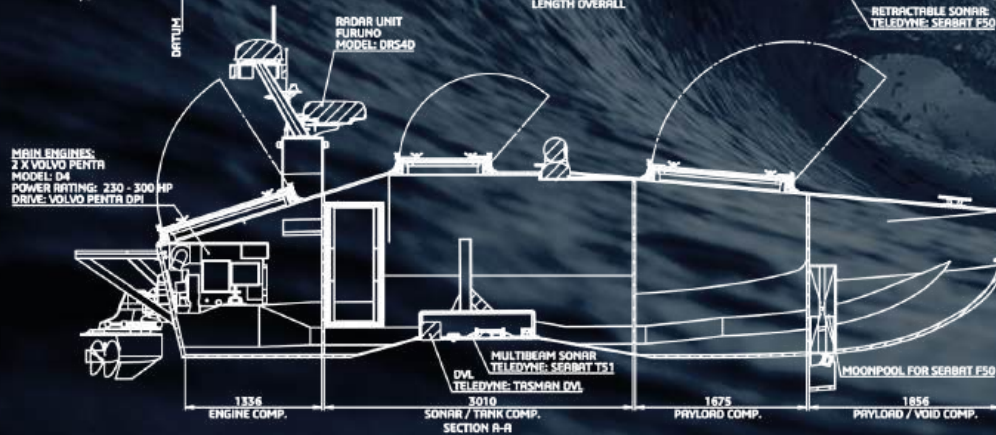
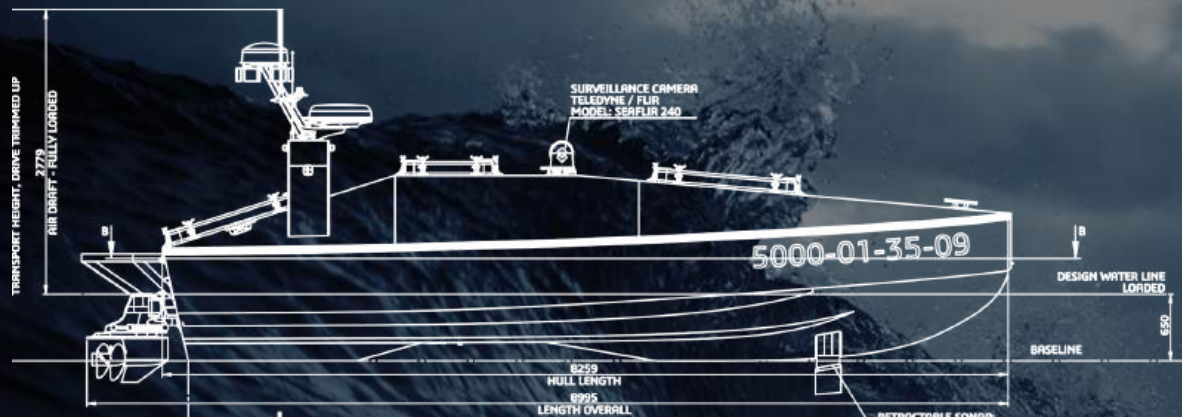


Low weight

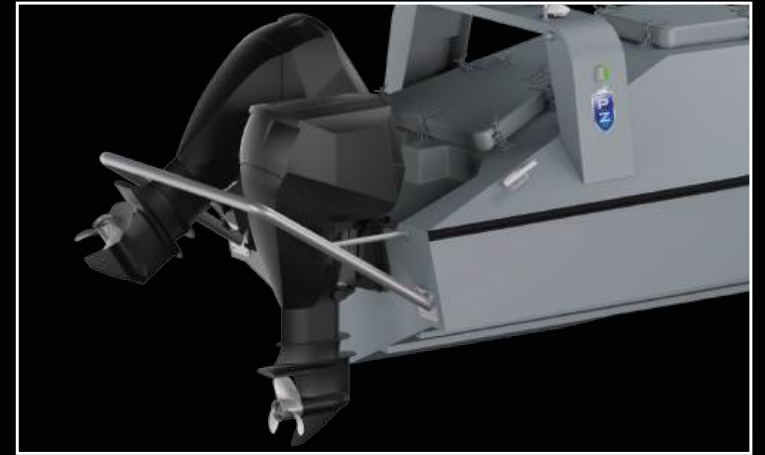
Cutting weight and adding value. Low weight design lifts the value chain.

USV RANGE

8M PROZERO ISR



PRO:ZERO 8M PROZERO ISR



OPTIONAL OUTBOARD ENGINES



Design: 2023 | 5000-01-35-7
Length overall, approx.: 8,2 m
Beam overall, approx.: 3,3 m
Shallow draft, approx.: 0,8 m
Maximum load: 2.000 kg
Engines: 2 x Inboard diesel engines

BENEFITS:

The ProZero 8m ISR is the ultimate solution for Intelligence, Surveillance, and Reconnaissance operations. This state-of-the-art unmanned vessel is specifically designed and expertly crafted to perform exceptional missions in any marine environment. With a custom Mast array carrying all of the antennas, radars etc. specified by the client, this will be perfect for any and all use cases required. Whether it's monitoring a coastal border, a maritime asset, or conducting reconnaissance missions, this vessel is a go-to tool for precise and timely data collection.

ProZero 8m Naval Intelligence USV is engineered to handle even the toughest conditions with ease. Its advanced propulsion system, combined with precise maneuvering capabilities, ensures that it can operate in any type of marine environment, providing a comprehensive view of the surroundings.

Built to last, the ProZero 8m Naval Intelligence unmanned surface vessel is constructed using the latest in composite materials, making it highly durable and lowmaintenance. Its sleek and innovative design also allows for customization to meet the specific needs, making it the perfect solution for all ISR operations.

OPERATIONAL FEATURES:

Speed max.: 12 kt
Speed (Cruise): 8 kt
Range at Cruise speed: 2350 nm

DESCRIPTION:

The boat has been built to meet the requirements from the competent authorities.

HULL, DECK AND SUPERSTRUCTURE:

The boat is made of a combination of glass-and carbon fibre as sandwich construction with PVC as core material. This core material acts as a natural buoyancy reserve material, due to its lightweight and zero water-absorption. Moreover, the sandwich construction avoids the use of internal stiffeners, increasing the usable internal space and offers a natural insulation capability.

FENDER:

The fender is constructed from heavy duty D-Runner profiles. Damage is strictly cosmetic keeping crew safe. Fender system absorbs major impacts and retains integrity and shape.

DECK:

Central placed mast for the most optimal position of observation module.
Deck and cabin are self-bailing.
Large deck hatches allowing fast replacement of main components.
Bar on aft for protection of engines.

SUPERSTRUCTURE:

The superstructure is designed to handle adverse weather and provide a high and stable platform for enhanced line of sight equipment, such as cameras, radars etc. Furthermore, ensuring able installation space for various equipment inside, minimizing clutter top side.

ENGINES, PROPULSION, STEERING etc.

2 x inboard diesels Autonomous and remote operations

TANKS:

Independent diesel tank with hatch and filling protection.

ELECTRICAL SYSTEM & LIGHTING:

All electrical wiring in marine cable.
Shore power with control lamp, marked fuses, earth connection.
Isolation transformer with earth plate for protection of galvanic corrosion.

24-volt electrical system.
Main switches with separate battery systems for start, navigation and consumption.
Battery charger with indicator.
Navigational lights.
Floodlights on the deck by request
Searchlight on request.

NAVIGATION & ELECTRONIC EQUIPMENT:

Complete engine instruments supplied by engine manufacturer.
Direction finding antenna.
6x CNM Antenna
Monitoring Antenna
Spare Antenna
Portable turnkey quad channel
Other passive/active sensors and equipment can be fitted on request.
Control panel for all lighting and other electrical equipment.

SECURITY EQUIPMENT:

Bilge pumps.
Fire extinguisher in Technical compartment.
Automatic fire extinguisher system in engine room.

Further equipment can be fitted on request.

PRO:ZERO



PROZERO 8M UDDB

The ProZero 8m Unmanned Drone Docking Boat is the ultimate solution for Intelligence, Surveillance, and Data Acquisition operations. This state-of-the-art unmanned vessel is specifically designed and expertly crafted to perform complex missions in any marine environment. With custom masts arrays using all of the antennas, radars etc specified by the client, this will be perfect for any and all use case requirements.

Whether you're monitoring a coastal border, a maritime asset, or conducting survey operations, this vessel is your go-to tool for precise and timely data collection.

ProZero 8m UDDB is engineered to handle even the most adverse conditions with ease. Its advanced propulsion system, combined with precise manoeuvring capabilities, ensures that it can operate in any type of marine environment, providing a comprehensive view of the surroundings.

Built to last, the ProZero 8m Unmanned Drone Docking Boat is constructed using the latest in composite materials, making it highly durable and low-maintenance. Its sleek and innovative design also allows for customization to meet your specific needs, making it the perfect solution for all your survey operations.

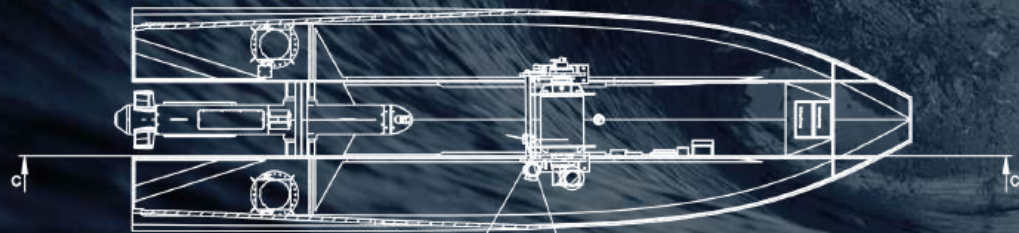


Low weight

Cutting weight and adding value. Low weight design lifts the value chain.

USV RANGE

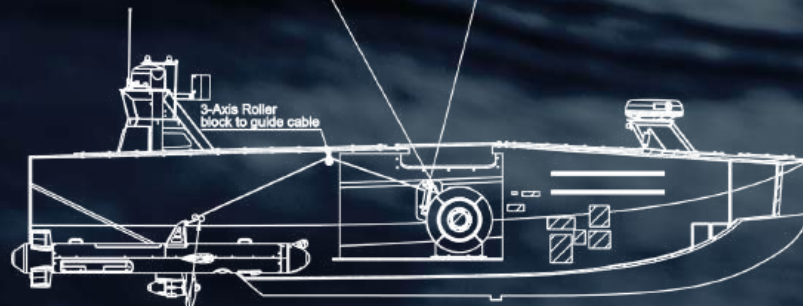
8M PROZERO UDDB



SECTION A-A

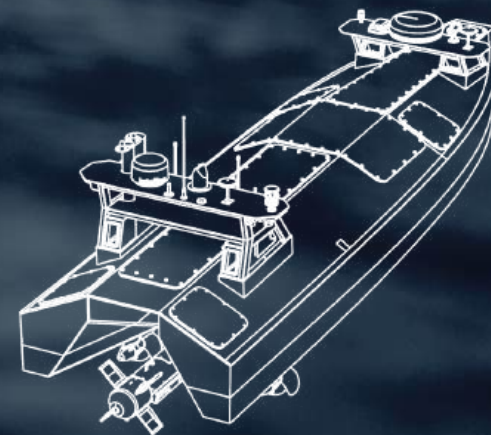
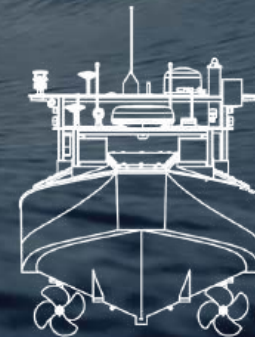
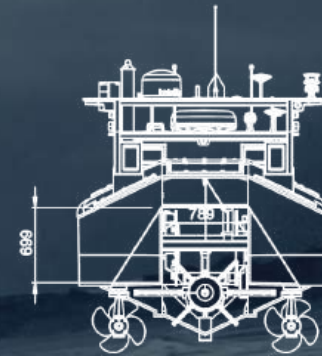
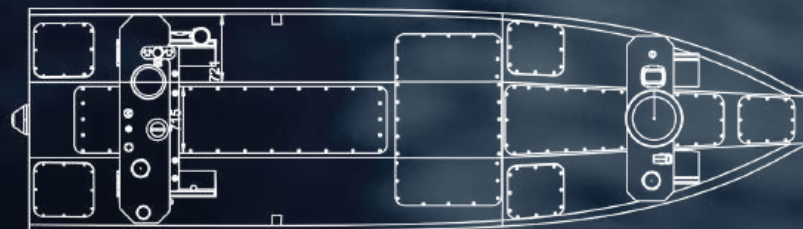
Cable wrapped around winch spool

Rollers can move laterally
along bar to combat dragging

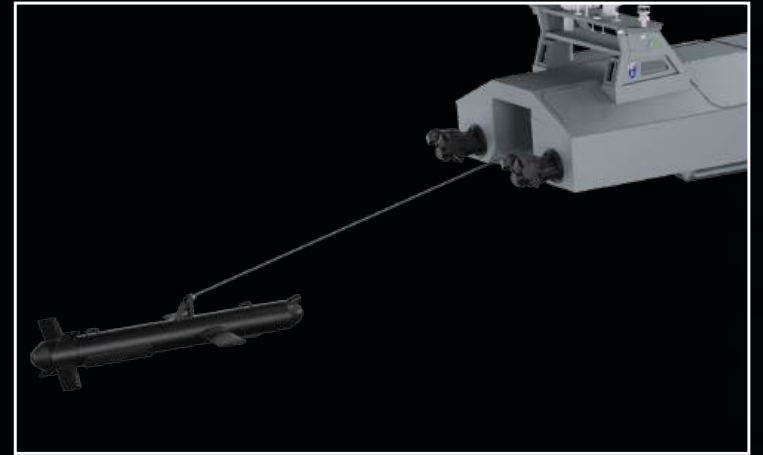


Rollers to keep cable low and guide cable

SECTION C-C

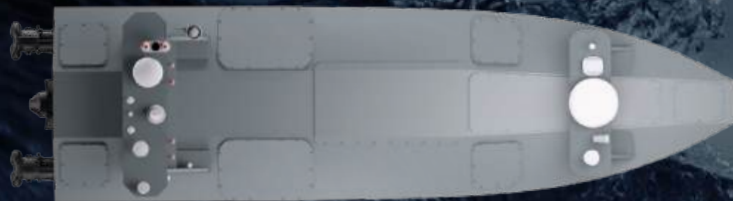


PRO:ZERO 8M PROZERO ISR



SHOWCASE OF VIPERFISH DOCKING





Design: 2023 | 5000-01-35-5
Length overall, approx.: 8,2 m
Beam overall, approx.: 2,3 m
Shallow draft, approx.: 0,8 m
Maximum load: 2.000 kg
Engines: 2 x Inboard diesel / electric

BENEFITS:

ProZero 8m Unmanned Drone Docking Boat - the ultimate solution for Intelligence, Surveillance, and Data Acquisition operations. This state-of-the-art unmanned vessel is specifically designed and expertly crafted to perform complex missions in any marine environment. With custom masts arrays using all of the antennae, radars etc specified by the client, this will be perfect for any and all use case requirements.

Whether you're monitoring a coastal border, a maritime asset, or conducting survey operations, this vessel is your go-to tool for precise and timely data collection.

ProZero 8m UDDDB is engineered to handle even the most adverse conditions with ease. Its advanced propulsion system, combined with precise manoeuvring capabilities, ensures that it can operate in any type of marine environment, providing a comprehensive view of the surroundings.

Built to last, the ProZero 8m Unmanned Drone Docking Boat is constructed using the latest in composite materials, making it highly durable and low-maintenance. Its sleek and innovative design also allows for customization to meet your specific needs, making it the perfect solution for all your survey operations.

OPERATIONAL FEATURES:

Speed max.: 12 kt
Speed (survey): 5 kt
Range: +500 nm

DESCRIPTION:

The boat has been built to meet the requirements from the competent authorities.

HULL, DECK AND SUPERSTRUCTURE:

The boat is made of a combination of glass-and carbon fibre as sandwich construction with PVC as core material. This core material acts as a natural buoyancy reserve material, due to its lightweight and zero water-absorption. Moreover, the sandwich construction avoids the use of internal stiffeners, increasing the usable internal space and offers a natural insulation capability.

FENDER:

The fender is constructed from heavy duty D-Runner profiles. Damage is strictly cosmetic keeping crew safe. Fender system absorbs major impacts and retains integrity and shape.

DECK:

Twin masts for optimum position of observation module.
Large deck hatches allowing fast replacement of main components.
Platform on aft for protection of propulsion system (optional).

SUPERSTRUCTURE:

The superstructure is designed to handle adverse weather and provide a high and stable platform for enhanced line of sight equipment, such as cameras, radars etc. Further-more, ensuring able installation space for various equipment inside, minimizing clutter top side.

ENGINES, PROPULSION, STEERING etc.

Diesel or electric engines
Autonomous and remote operations

TANKS:

Independent diesel tank with hatch and filling protection.

ELECTRICAL SYSTEM & LIGHTING:

All electrical wiring in marine cable.

12/24-volt DC electrical system.

Separate battery systems for start, navigation and consumption.
Navigational lights.



PRO:ZERO

12M EF-12 WORKBOAT

The 12M Artemis eFoil® propelled multi-purpose workboat is the world's first high-speed 100% electric foiling commercial vessel. It is designed and built to high commercial standards, delivering market leading electric propulsion, ride comfort and energy efficiency during operations in the harshest environments.

The walk-around deck layout with a central cabin and doghouse, provides flexibility and room for a variety of missions and boarding requirements.

Our vessels and subsystems have been rigorously tested to ensure operational capability, and efficient performance, across a range of tough conditions. The deep carbon composite V-bottom hull provides a safe and reliable base for high-speed foiling operations in coastal and offshore waters.



Low consumption

Minimized operating costs and improved environmental impact. For a sustainable and prosperous future.

EFOILER

12M EF-12 WORKBOAT

Design: 2022 | 5000-07-27
Length overall, approx.: 11,5 m
Beam overall, approx.: 4 m
Draft (full load), approx.: 2,2 m
Displacement (full load), approx.: 10000 kg
Capacity: 6 persons
Maximum load: 10000 kg
Engines: 400 kWh battery pack

BENEFITS:

The 12M Artemis eFoiler® propelled multi-purpose workboat is the world's first high-speed 100% electric foiling commercial vessel. It is designed and built to high commercial standards, delivering market leading electric propulsion, ride comfort and energy efficiency during operations in the harshest environments.

The walk-around deck layout with a central cabin and doghouse, provides flexibility and room for a variety of missions and boarding requirements.

OPERATIONAL FEATURES:

Speed (cruise): 25 kt.
Range: 60 Nautical miles.
Fast charge time: 52 seconds per Nautical mile.

DESCRIPTION:

The boat has been built to meet the requirements from the competent authorities, and features a redundant propulsion system.

HULL, DECK AND SUPERSTRUCTURE:

ProZero Foam cored carbon vinylester infused laminate.

PROPULSION:

Main propulsion with 250 kW and 60 kg Tunnel thruster.

DECK:

Handrails: Alloy fabricated and powder coated.
Custom rigid fender around deck edge.

ACCOMMODATION:

Capacity for up to 8 Seats - Client Specific layout
Wheelhouse: Navigation console.

ENGINES, PROPULSION, STEERING etc.

1 x battery pack.
Grid fed booster (Battery storage system) and dispenser (1 or 2 outlets).

ELECTRICAL SYSTEM & LIGHTING:

System includes an Artemis Technologies 800V marinised EV battery, with a hydrogen fuel cell range extender option under development.

FLIGHT CONTROL SYSTEM:

Flight control: Autonomous.
Manual inputs: Steering & throttle.

SHIP SYSTEMS:

Bilge and Fire pump: 5 x Electric bilge pumps + 1 x manual bilge pump.
Fixed system in battery enclosures and portable fire extinguishers.

PRO:ZERO

12M EF-12 CREW TRANSFER VESSEL

Our 12M Crew Transfer Vessel, is designed and built to allow engineers to get to their destination and deliver their services without discomfort, in a safe and efficient manner.

The Artemis EF-12 CTV has a top speed of 32 knots, and a range of 50 nautical miles at a cruising speed of 25 knots.

Interior cabin layout is adjustable and can be transformed into mission specific environments for the crew, or seating arrangements for passenger transport.

Our workboats create minimal wake when foiling, enabling them to operate at high-speed in inland waterways, or in busy ports and harbours.

Whether undertaking Crew Transfer, Emergency Response or Patrol Operations, our range of Artemis eFoil® 100% Electric Commercial Workboats are specifically designed for high-speed operations in the most challenging environments.



EFOILER

12M EF-12 CREW TRANSFER VESSEL

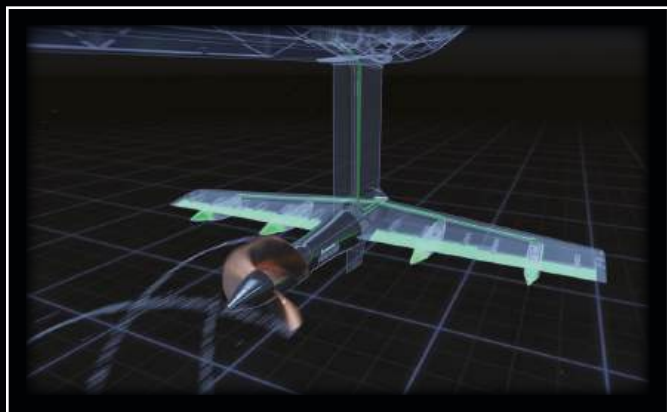
CREW TRANSFER

Manufactured from robust lightweight glass and carbon fibre composites, which reduces the weight of the boat enabling higher speeds and longer range.



Comfortable ride

Due to the electric fully submerged drivetrain, the Artemis eFoil® provides a quiet experience. Flying over the waves on a high-speed foiling vessel removes the usual bumpy ride, and associated sea sickness.



PRO:ZERO



GAME CHANGING TECHNOLOGY

PRO:ZERO

15M FR WORKBOAT

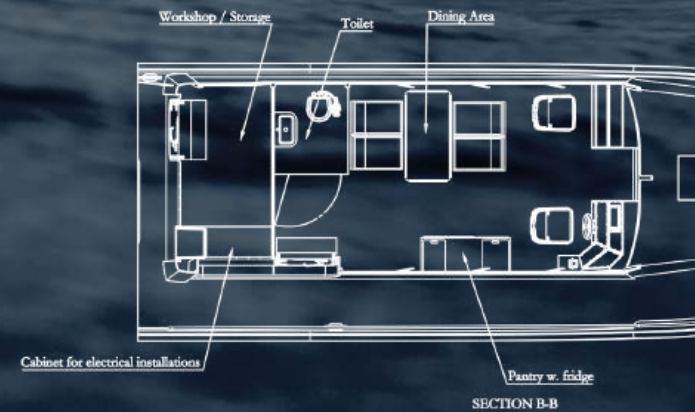
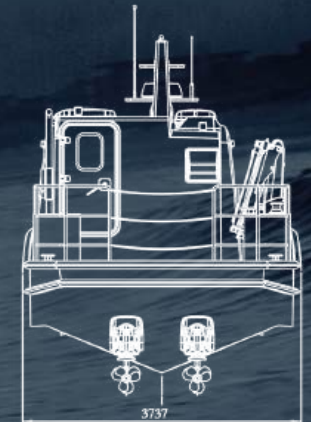
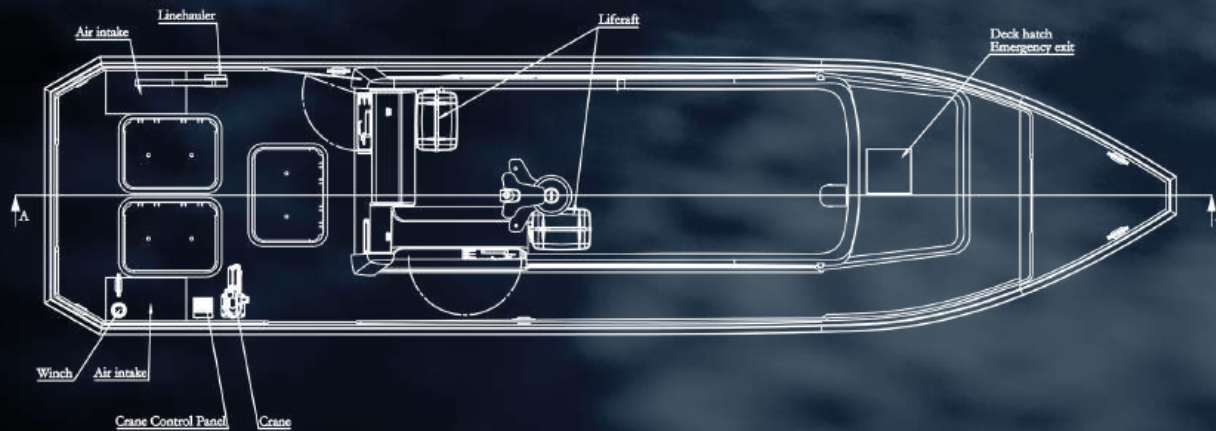
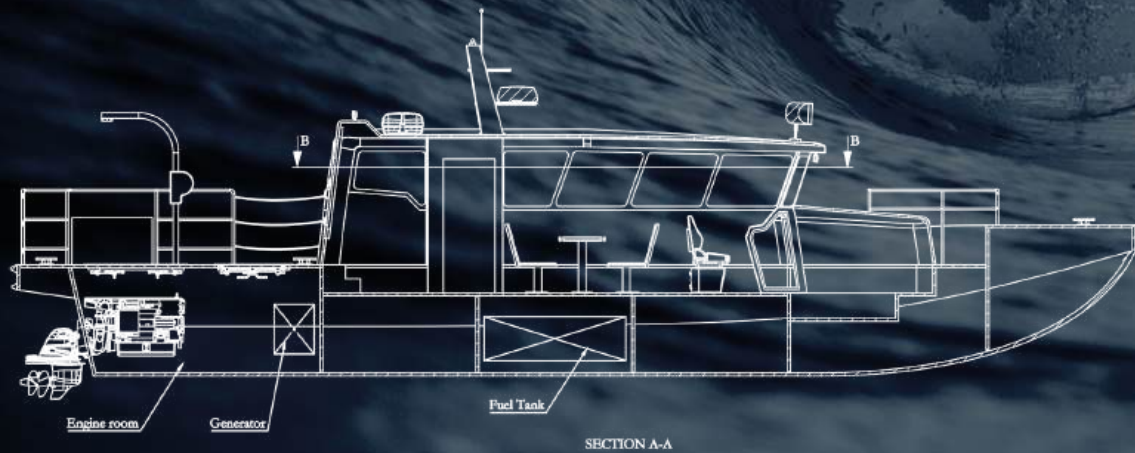
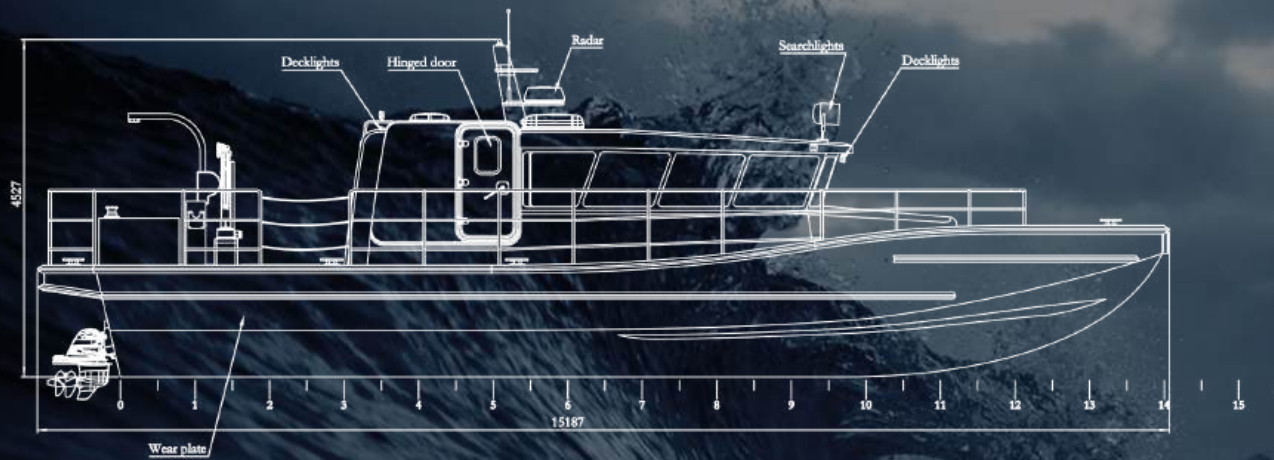
The ProZero 15m FR Workboat is strategically sized and carefully equipped for workboat operations and built on the proven, reliable and extremely seaworthy ProZero hull platform. The ProZero FR Workboats originates from the ProZero offshore Daughter craft lines and have the same superior harsh weather performance.

Like all ProZero vessels, this boat is built from robust lightweight glass- and carbon fibre composites, which reduces the weight of the boat and thereby allowing both higher speeds and lower fuel consumption. Good ride quality and ergonomics is key to enduring long and exhausting days at sea, and the ProZero 15m FR Workboat is designed to provide just that. With its non-stepped, variable deadrise deep V-bottom hull featuring good forward entry, a flared bow, wide chines and lifting strakes/spray rails, the hull provides a safe and reliable base for high-speed operations and will tackle even very agitated sea states.

Particular attention has been paid to crew comfort, as the ProZero 15m FR Workboat is further designed to minimize noise and vibrations while preserving structural rigidity, integrity and strength and enhancing operational capability.

NAVY BOAT 15M FR WORKBOAT





PRO:ZERO



CREW COMFORT

The ProZero 15m FR Workboat is engineered with a walk-by deck layout and an asymmetric cabin design, offering exceptional versatility and ample space to accommodate a diverse range of operational needs and different configurations. Specifically tailored for crane operations and enhanced maneuverability, this vessel combines functionality with crew comfort, making it an ideal choice for demanding maritime tasks.

The lightweight construction, significantly lighter than the market average, is achieved through a sophisticated combination of glass- and carbon-fiber sandwich construction with a PVC core. This core material provides natural buoyancy, zero water absorption, and eliminates the need for internal stiffeners, maximizing usable interior space while offering inherent insulation for improved cabin comfort. The result is a vessel that not only excels in fuel efficiency, with a fuel capacity of 1000 liters, but also delivers proven seaworthiness and operational reliability.

The cabin design prioritizes crew well-being, incorporating large windows that allow an abundance of natural daylight to flood the interior, significantly enhancing personal comfort and creating a bright, welcoming environment.

NAVY BOAT 15M FR WORKBOAT

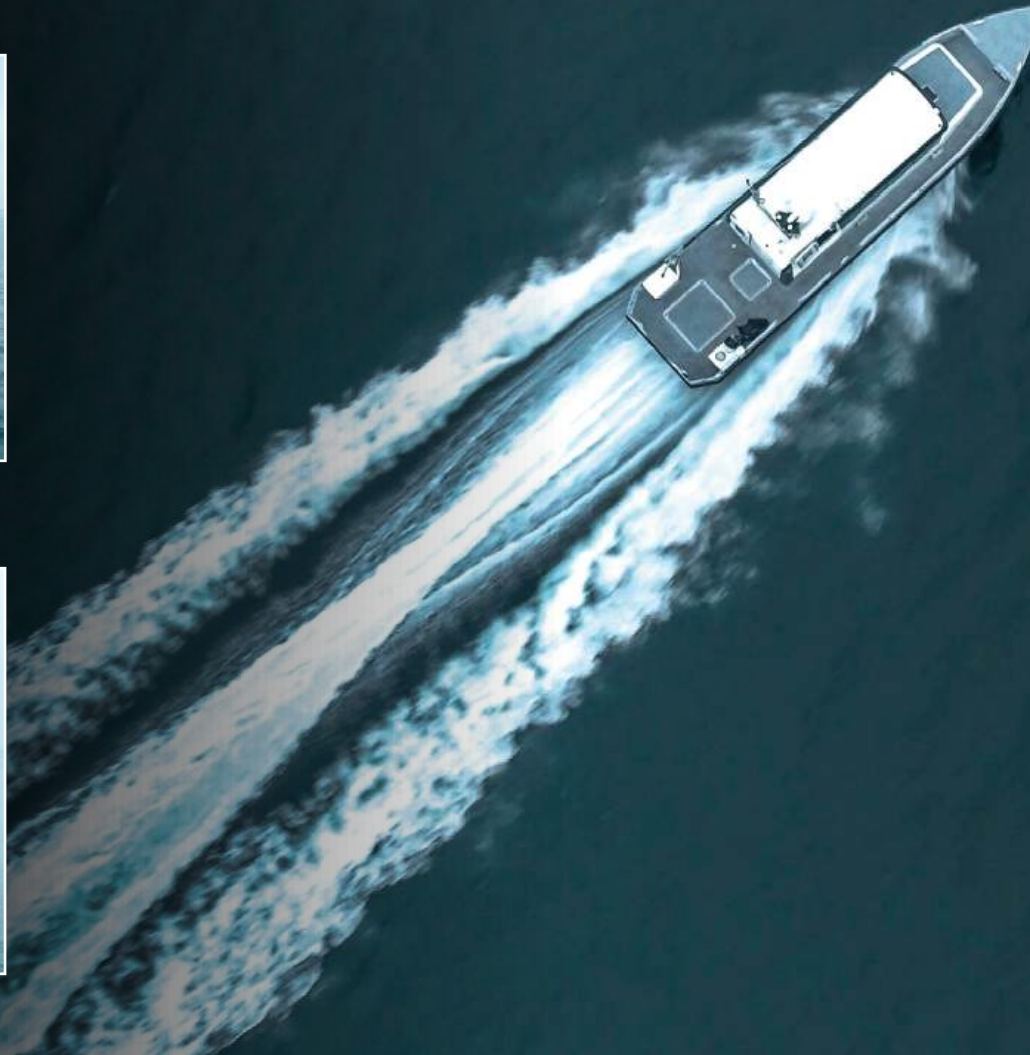
SAFETY SYSTEMS

Safety is paramount on the ProZero 15m FR Workboat, equipped with robust bilge pumps and a self-bailing deck and cabin to manage water ingress and prevent accumulation. A fire extinguisher at the helmsman station and an automatic fire suppression system in the engine room ensure rapid response to fire risks.

The electrical system, featuring marine-grade wiring, an isolation transformer, and shore power with marked fuses, ensures secure power management, making the vessel reliable for demanding operations.



PRO:ZERO





SUPERIOR MATERIALS

High strength, low maintenance

Clever choices of materials increase performance and productivity. Fiber reinforced composites have great strength-to-weight ratio, physical stability and molding flexibility. This makes them highly attractive for manufacturing the fast and durable ProZero vessels.

Safe and durable

Improved safety is also a benefit of using composites. Drop tests proves that the "sandwich"-type composite panels used in the ProZero series have better energy absorption capacity compared to for instance aluminium. This means that the structural integrity of the vessel is better preserved in the occasion of collision with objects. The sandwich panel acts as a closed cell, so that in the event of a collision where the outer skin is compromised, water intake is confined and obstructed whereas a similar aluminum panel will suffer full penetration which sets the vessel and crew at risk.

Working together

At Tuco, we carefully draw out all the potential inherent in these materials and we continuously work together with the Danish Technical University amongst others to verify the mechanical properties and advantages of composites.



Unmatched strength

Confront the elements with confidence. Built for strenght, safety and durability.

WHY CARBONFIBRE COMPOSITES

Many people are not aware of the advantages of carbon fibre composites over aluminium, so here we will highlight some of them.

LIFE SPAN

Composite boats have longer life span due to their non-corrosive nature and the capacity of the materials to dampen vibrations and protect against structural degradation. Fast going aluminium boats have a maximum lifespan of 15 to 20 years before vibrations starts generating cracks in the welding/ plate connections. The relative difference in stiffness between welded connections and plating means that forces cannot be transferred to and from the plating without creating cracks over time.

WEIGHT

Generally, carbon fibre composite boats are 30% lighter than comparable aluminium boats. This translates into less fuel consumption and higher speeds. Carbon fibre itself is known for its impressive strength-to-weight ratio which is higher than all other materials used in boatbuilding. Although carbon fibre is four times stronger than high-grade steel, it weighs only 25% as much.

	Type	Density	Tensile Strenght	Young Modulus
		kg/m3	Mpa	Gpa
Steel	Low-grade	7750	150-1500	210
Steel	High-grade	7600-8000	200-2000	190-205
Aluminium	Alloy	2700-2800	34-500	
Glassfiber	E-glas	2540	2400	73
Carbon fibre	T700	1770	5300	235

IMPACTS/SAFETY

Composite boats are much safer than aluminium boats. When aluminium boats are subjected to impacts, the hull is often penetrated. A simple drop test clearly shows the improved safety of a sandwich composite hull structure. By dropping a 12-kilo weight from 5 meters of height onto an aluminium hull plate, the hull plate will be penetrated. Consequently, there is a risk of water ingress and both crew and boat are exposed to danger.

The same test performed on a sandwich panel shows that only the outer skin of the structure is penetrated while the core material absorbs the remaining energy, leaving the inner skin undamaged This means no risk of water ingress and less danger to boat and crew members.

PAINTS AND SURFACES

Aluminium surfaces need constant maintenance since any minor scratches or compromises to the paint will expose the aluminium. Under such circumstances the aluminium will start to oxidize, and more paint will start peeling off and result in further surface degradation.

With composites, scratches are purely cosmetic and no repaint or maintenance is needed.

Applications

During the last century, carbon fibre has been the preferred material for any high-end application. Giant steps forward in the use of carbon fibres, not only in the space industry but also more generally in the commercial aerospace industry, has led to significant developments in carbon fibre production and lowering of prices. Better availability has led to an extended use of carbon fibre in more industrial applications – including high-speed marine applications which leaves aluminium in second place in the race for high-performing, durable maritime solutions.

PRO:ZERO

MATERIALS COMPOSITES

PRO:ZERO

DROPTEST COMPOSITES VS ALUMINIUM

DROPTEST: COMPOSITE

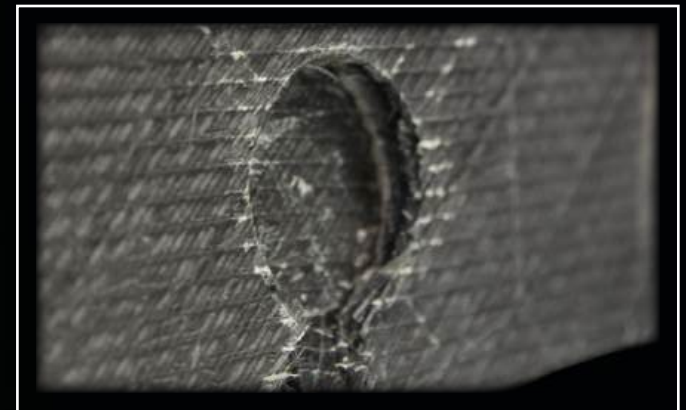
Composite hull structure

- Dropping a 12,5 kg load from 6 m height.
- 25mm sandwich panel with PVC core.
- A controlled release mechanism lets the load falls straight down and ensures reproducibility of results.

RESULT:

Absorbs the impact

- Only the outer skin of the hull structure is penetrated – **No water intake, no immediate risk** for boat and crew.
- The sandwich core absorbs the energy from the impact and the inner skin remains undamaged.
- The vessel can return safely to harbour with no risk for crew and vessel.



* Image shows penetration of only the frontside of the sandwich panel because the inner core absorbed the impact

DROPTEST: ALUMINIUM

Aluminium hull plating

- Dropping a 12,5 kg load from 6 m height.
- 5 mm aluminium hull plate.
- A controlled release mechanism lets the load falls straight down and ensures reproducibility of results.

RESULT:

Water intake

- Impact on the aluminium hull plating results in **immediate water intake** with **crucial risk** for crew and boat.
- Damage like this requires instant attention.



* Image shows full penetration of the aluminiums plate

PRO:ZERO

DROPTEST
COMPOSITES VS ALUMINIUM

PRO:ZERO



OUTBOARD DRIVES



DRIVE OPTIONS

The single outboard drive option is ideal for smaller vessels or missions that don't require extreme power. These outboards are fuel-efficient and easy to maintain, making them suitable for lighter tasks.

Twin outboard drive configurations provide increased power and redundancy. This setup allows for better maneuverability and reliability, as one engine can still operate if the other fails.

For larger and more powerful vessels, triple and quad outboard drives offer superior performance, particularly for missions that demand high-speed transportation or heavy-duty work.



DRIVE BENEFITS

The Swamp Shark drive quite effectively eliminates all risks. With no reliance on external water sources and no appendages beneath the hull, it provides unmatched reliability in some of the most demanding environments.

It ensures continuous operation in the most shallow, debris-filled, and vegetation-clogged waters. It's the most reliable marine drive on the market, and it truly must be seen to be believed. It's the ultimate go-anywhere, do-anything high-horsepower solution.



KEEL COOLING SYSTEM

Efficiently cools engine oil, power steering, and transmission fluid, ensuring peak performance without the need for overboard water intakes. It's an incredibly reliable, highly durable propulsion system.

SWAMP SHARK DRIVE

PRO:ZERO

PRO:ZERO

PREVIOUS MODEL

INTERIOR DESIGN

The interior has been designed to provide the user with maximal comfort and spacious working conditions. Ergonomic seats ensure a comfortable ride, noise insulation eases communication and large windows afford ample light and great visibility.



Comfortable cabin

Attending to the human factor. Functional, bright and ergonomic working conditions with noise insulation for ease of communication.



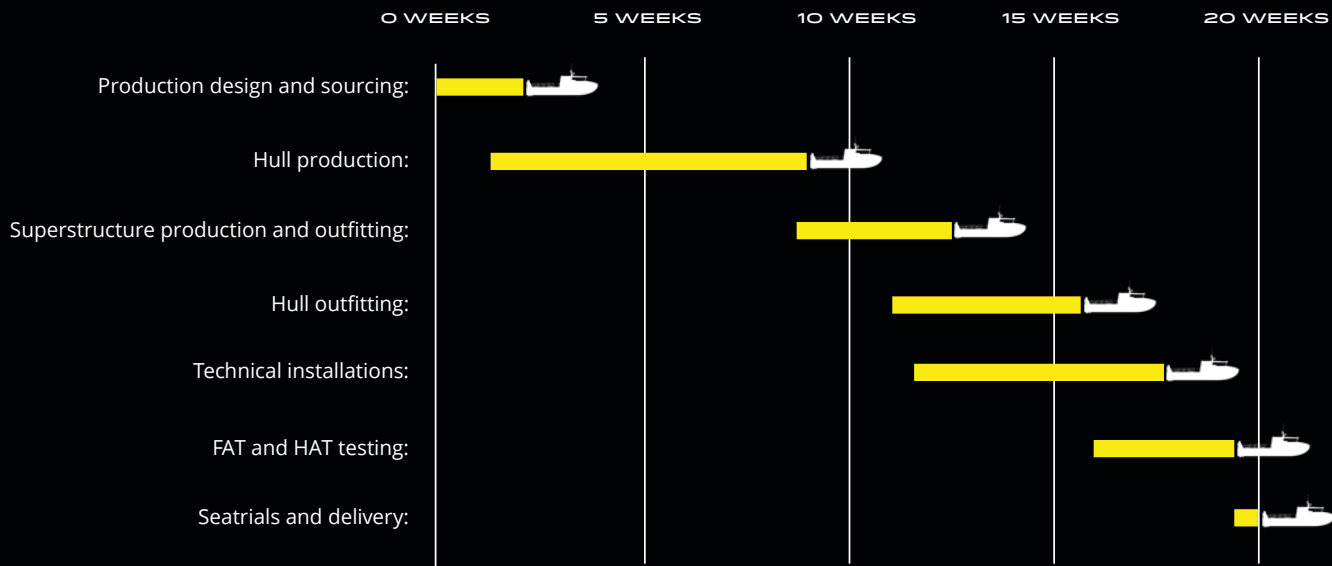
NOISE INSULATION
EFFORTLESS COMMUNICATION

The image shows the interior of a vehicle cab, likely a truck or heavy machinery, at night. The cab is illuminated by warm interior lights. The dashboard features a large digital display showing a map, several smaller gauges, and various control buttons. A steering wheel is visible in the center. To the right, there is a large, adjustable seat with a green mesh backrest and a yellow mesh seat cushion. The windows show a dark exterior with some distant lights. The overall atmosphere is professional and modern.

PRO:ZERO

COMFORTABLE RIDE
AIR SUSPENDED SEATS

PRO:ZERO



SERIAL PRODUCTION

Merging unparalleled quality with cost-efficiency and prompt delivery

Construction with fiber-reinforced composites is highly suited for serial production. Tuco has developed an exceptionally efficient modular production method to fully exploit the advantages inherent in composite materials.

To guarantee product excellence and quality uniformity across our range of vessels, female moulds are applied in the production of all ProZero hulls. This permits a very high degree of accuracy and consistency in the manufacturing process so that every single hull lives up to our rigorous quality standards. Production using high quality moulds outperforms any other building technique in terms of cost-effectiveness.

Our modular production method enables us to integrate specific design requests and we cooperate closely with all involved stakeholders to deliver uncompromising quality and excellent products without sacrificing short delivery times.



SHORT LEAD TIME

EFFICIENT PRODUCTION PLATFORM

SERVICE AND SUPPLY

Far and wide – support is always within reach

The reliability and speed of our products is echoed in our range of support services. We are committed to act fast whenever a customer needs us. We appreciate the significance of constant operational capacity, and Tuco Marine's Spare Parts and Service Team helps to intercept unexpected downtime and keep productivity at a maximum.

The team is staffed by some of the most skilled technicians in the industry and they work to ensure the highest possible level of technical support for our clients.

Integrating the best equipment

Beyond that, we have long-lasting relationships with OEMs. We collaborate with key vendors from the early design phase to integrate the best features into the building process. This way we create a safer and more comfortable boat for the crew.

Our extensive product knowledge and our unique ties with the industry allows us to offer a high degree of availability and coverage – we extend our support far beyond what you might expect from a boatbuilder.



Swift support

Rest assured and focus on the job. Our skilled technicians are always prepared to offer support.

PRO:ZERO

FULL SUPPORT
SKILLED SERVICE TEAM

PRO:ZERO

12M INTERCEPTOR

Fast transfer and deployment

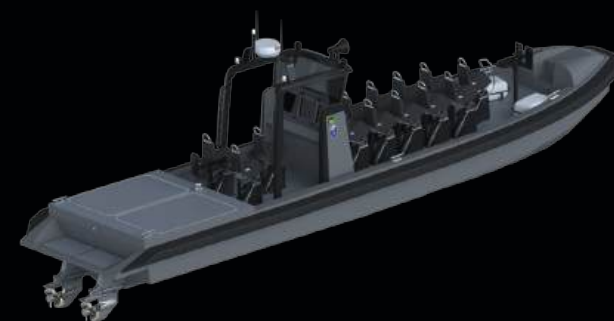
The 12m ProZero interceptor is designed for ultra-high-speed patrol duties under the most challenging conditions and on the well-proven hull platform it can offer an exclusive track mounting system which allows the operator to rapidly configure the deck to accommodate a variety of seating and mission-specific payloads. The 12m ProZero Interceptor can operate at top speeds in the harshest seas and features an open P-Top design to increase visibility at all angles. Ergonomic features maximize efficiency and enhance ease of movement around the vessel while the deep-V hull delivers unbelievable on track performance.

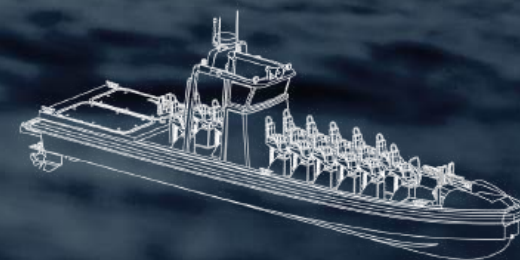
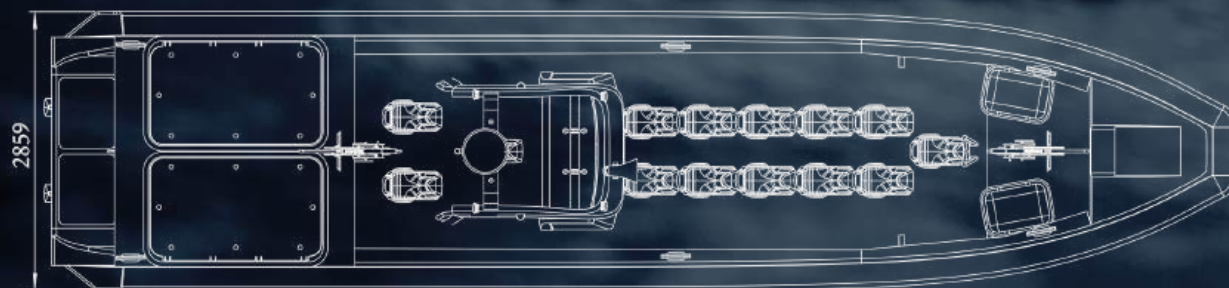
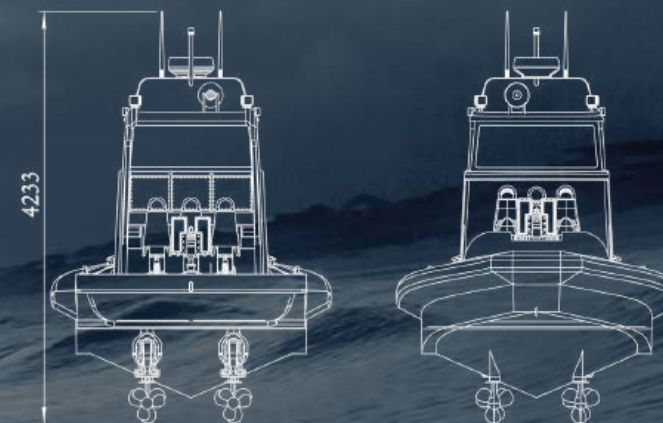
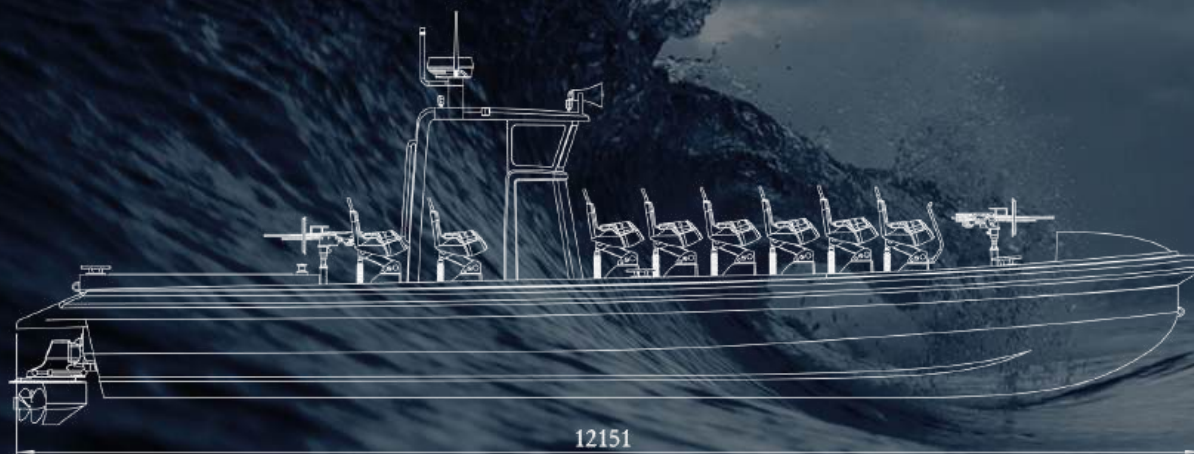
Proven D-shape collar technology

The composite hull is capable of facing the hardest sea-conditions and the well proven D-shape collar technology increases the usable deck area significantly. Boasts a high-speed optimized steering console with anti-shock seating for two crew, sheltered by the ProZero P-top with an extended aft canopy. The P-top provides loads of headroom and weather protection curtains can be added to further shelter crew and passengers from the elements. Wide, non-skid walkways enable easy crew movement in fore and aft. The full-height transom offers security. Oversized scuppers assure that the vessel's self-bailing cockpit drains quickly for improved safety during harsh weather missions.

NAVY BOATS

12M INTERCEPTOR





PRO:ZERO

Protection mounted
to machine gun

13101

Engine protection
bolted to structure

Flush hatch to
Hatch marked

Forward compartment hatch
Cabin emergency exit

below deck
at sea"

NAVY BOAT 13M PATROL

CABIN

INTERIOR LAYOUT

FORECASTLE

13M PATROL

Immediate response

The 13m ProZero patrol boat is built specifically for safety, speed and comfort. The boat is built from lightweight materials, making the boat both lighter and faster which contributes to operation success, all without losing safety. The fender is designed for high speed boarding, while the main deck is placed low for increased stability and easy boarding. The boat is able to reach +40kt which ensures swift MOB operations. The outboard engines increase vessel configuration flexibility.

Offensive protection

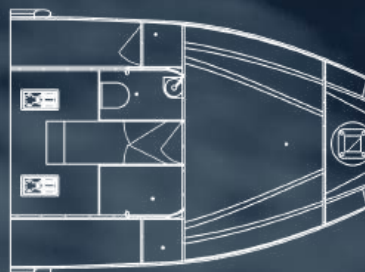
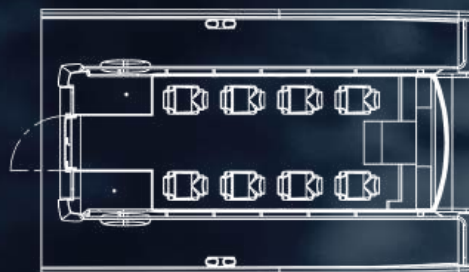
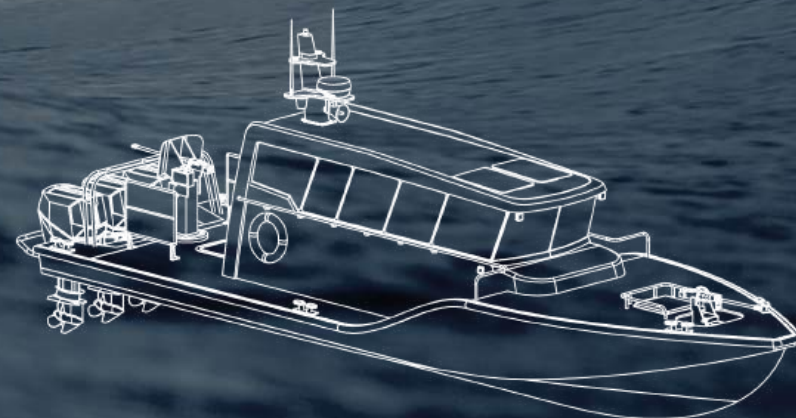
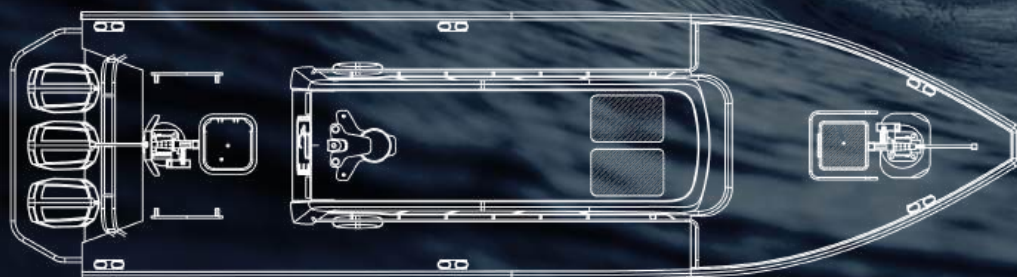
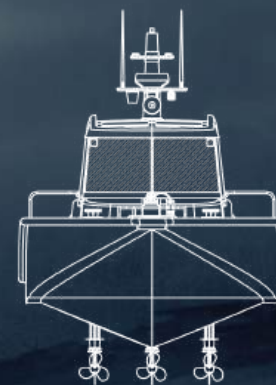
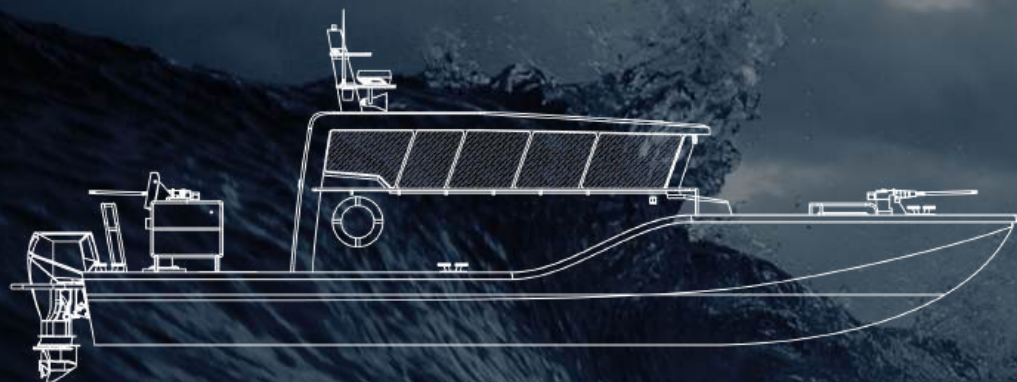
The front and aft of the 13m patrol boat are both equipped with a machine gun, that covers 360 degrees combined.

Ballistic protection

The secure cabin provides the crew with ballistic-protection from projectiles and provides personnel-comfort. The fuel system is bullet-protected, to ensure mission continuation.

The machine gunner in the front is protected by armour gunwale railings which is installed on both sides of the gunner, while the machine gunner in the front is protected by a lowered foredeck.







PRO:ZERO DCW 15M ROV SUPPORT VESSEL





Design: Rev.25/8/16 | 5000-03-22
Length hull, approx.: 15,00 m
Beam overall, approx.: 3,95 m
Draft, approx.: 1,00 m
Engine: 2 x Inboard diesel engine
Drive: 2 x Water Jet
Length, overall, approx.: 16.05 m

OPERATIONAL FEATURES

Speed (max): 20 kt.
 Range: 10 hours cruise speed.

DESCRIPTION

The boat has been built to meet the requirements from the pertinent authorities.

DECK:

Aluminium railings.
 Deck and cabin are self-bailing.
 Composite Mast.
 Stowage for mooring equipment.
 6 stainless steel mooring bites.
 2 Davits for launching and recovery the ROVs.

GENERAL:

The boat is built as a standard according to the technical specification and our general quality standard. The specification is valid when being printed. Details in construction, design and equipment can be changed as a result of the experience from the use of the boats. The quality and the equipment standard, however, are equivalent at least to this specification. The hull and structure have a 2 years warranty since delivery. The equipment and devices fitted in the boat have a 1 year's warranty since delivery.

HULL, DECK AND SUPERSTRUCTURE:

The boat is made of a combination of glass- and carbon fiber as sandwich construction with PVC as core material. This core material acts as a natural buoyancy reserve material, due to its lightweight and zero water-absorption. Moreover, the sandwich construction avoids the use of internal stiffeners, increasing the usable Internal space and offers a natural insulation capability, improving the comfort in the cabin and manned compartments.

FENDER:

The fender is constructed of closed cell polyethylene foam. Not deflating with solid core that cannot lose buoyancy or absorb water. Damage is strictly cosmetic keeping crew safe. Fender system absorbs major impacts and retains integrity and shape. The ProZero fender's profile gives substantially more interior room than a comparable RIB. The fender can be easily detached and attached for transport and maintenance.

CABIN:

2 Comfort seats for crew.
 Hinged door in the aft of the cabin.
 Windshield wiper with interval relay.
 All windows are glued into the structure.
 Lights in cockpit with dual mode white/red light.
 Chart lamp with white and red light.
 Comfort insulation in the cabin.
 Mess area with L sofa and table.
 Pantry with sink and cooking facilities.
 Multiple storage spaces.
 Dark Control Room for ROV operation.
 Ladder down to forecastle.

FORECASTLE:

2 x Cabins with room for a 1,5 x 2,0 m mattress, desk board and wardrobe.
 Toilet with WC, shower and sink.
 Staircase to access foredeck with enclosed lobby with independent drainage to bilge.

TECHNICAL:

ENGINES, PROPULSION, STEERING & MANOUVERING

2 x Inboard diesel engines.
 2 x Water jets.

FUEL TANK:

Structural diesel tank with hatch and filling protection.
 All fuel systems are pressure tested.

ELECTRICAL SYSTEM & LIGHTING:

All electrical wiring in marine cable.
 Shore power with control lamp, marked fuses, earth connection and shore cable.
 24-volt electrical system.
 Main switches with separate battery systems for start and consumption.
 Battery charger with indicator.

NAVIGATION & ELECTRONIC EQUIPMENT

Electric engine controls. Complete engine instruments with RPM, temperature, oil pressure and voltmeter for start batteries supplied by engine manufacturer.
 Fuel gauge.
 Control panel for all lighting and other electrical equipment.
 Magnetic Compass.

SECURITY EQUIPMENT:

Manual bilge pump.
 Electrical emergency pump in bilge, manual start, in the bilge and in the engine room.
 Fire extinguisher at helmsman station.
 Automatic fire extinguish system in the engine room.

DELIVERY:

All boats are launched, tested and calibrated and has gone through a scrupulous quality control at the yard in Denmark. Delivery, hand over, test drive and technical review with customer at yard in Denmark. All boats are delivered with a complete owner's manual.

PRO:ZERO

15M MULTI MISSION INTERCEPTOR

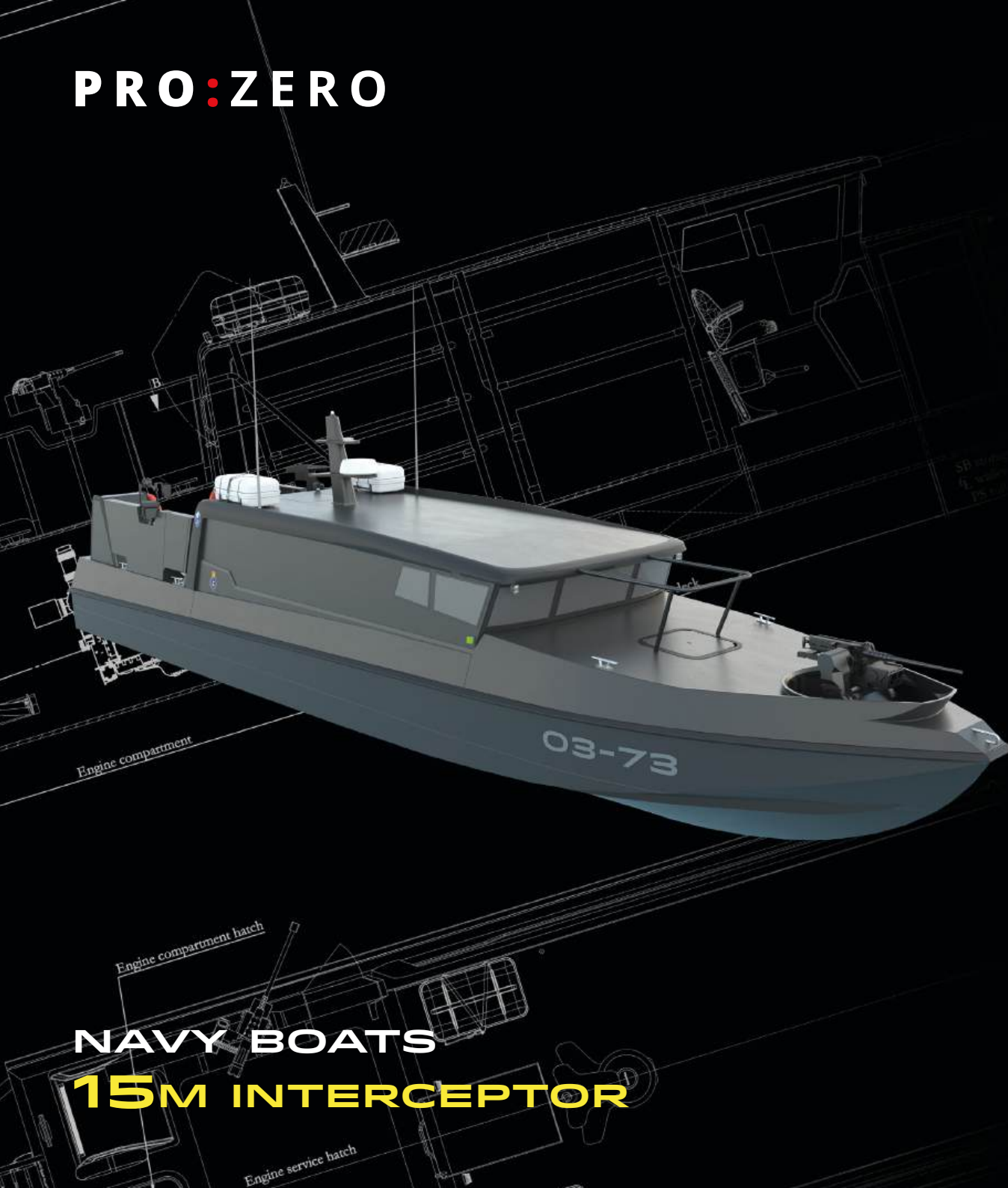
Missions proven hull

Good ride quality and ergonomics is key to enduring long and exhausting missions, and the 15m meter Interceptor is designed to provide just that. With its non-stepped, variable deadrise deep V-bottom hull featuring good forward entry, a flared bow, wide chines and lifting strakes/spray rails, the hull provides a safe and reliable base for high-speed operations and will tackle even very agitated sea states. Particular attention has been paid to crew comfort in high speed operations.

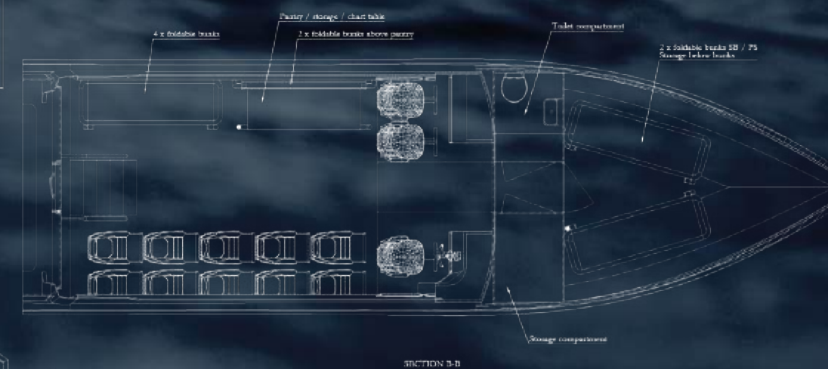
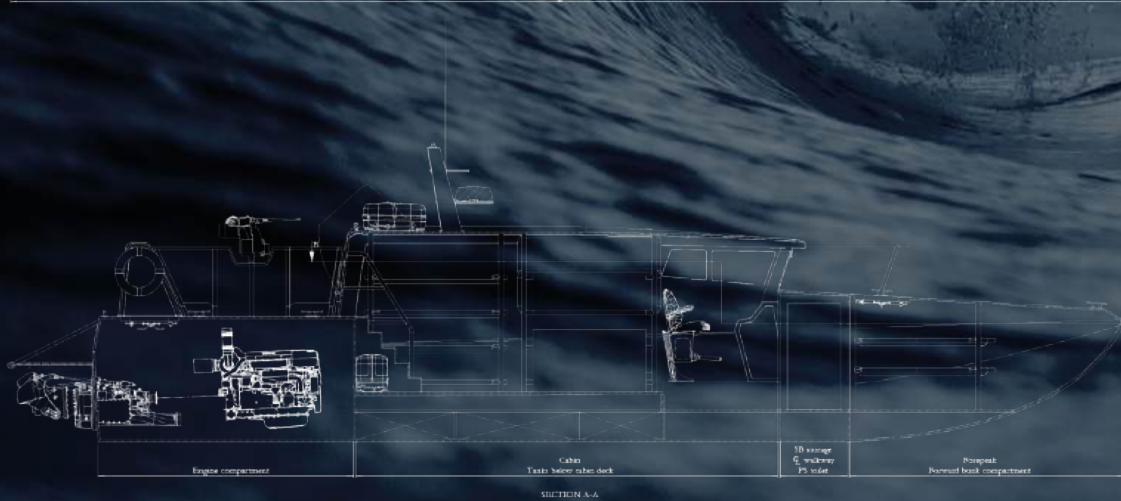
The vessel is built to minimize noise and vibrations while preserving structural rigidity, integrity and strength and enhancing mission-capability. The deck layout provides flexibility and room for a variety of missions and boarding situations. The interior cabin layout is adjustable and can be transformed into mission-specific environments with over-night accommodation areas for the crew or seating arrangements for efficient crew transport.

Specialized missions

- Anti-terrorist protection of critical infrastructures along the coasts
- Anti-smuggling, anti-Piracy and anti-drug trafficking operations
- Coastal Patrol Missions
- Immigration control
- SAR operations
- Fishery control



NAVY BOATS
15M INTERCEPTOR





PRO:ZERO 16M COMBAT CRAFT





Design: 2025 | 5000-03-73-01
Length overall, approx.: 16,1 m
Beam overall, approx.: 3,69 m
Draft (full load), approx.: 0,73 m
Capacity: 12 Pax - 4 Crew
Engines: 2 x 13 1. 6 cil. Diesel

MISSION PROFILE & CAPABILITIES:

The ProZero 16 m Combat Craft is engineered for high-speed missions and high-risk tactical operations such as counter-terrorism response and interdiction, coastal patrol and sovereignty enforcement, maritime border control and anti-piracy and counter-narcotics interdiction operations. The design of the vessel is optimized to reduce the acoustic and vibration signatures enhancing mission endurance and operator effectiveness. Its ad-vanced hull geometry and lightweight construction delivers exceptional seakeeping and high maneuverability across dynamic maritime environments. The aft area can be provided with two weapon stations and there is enough space for two inflatable 5.3 m boats too. The boat is significantly lighter than the market average which benefits fuel consumption and adds to the already proven seaworthiness.

TACTICAL PERFORMANCE:

Max speed: 50+ knots *
Cruise speed (cruise): 35+ kt *
Fuel capacity: Approximately 2x1500 L*
Range: 350 nm / Approximately 10 hours at 35 Knots*
Space for two weapon stations one PS & one SBS.

STEALTH & STRUCTURAL DESIGN:

Hull and superstructure are built using carbon and glass fibre sandwich with PVC foam core material. This core material acts as a natural buoyancy reserve material, due to its lightweight and zero water-absorption. Moreover, the sandwich construction avoids the use of internal stiffeners, increasing the usable internal space and offers a natural insulation capability, improving the comfort in the cabin and manned compartments. The vessel has been thoroughly checked on its exterior surfaces to minimise undesirable effects when transmitting and receiving signals from communication systems adopting a distinctly stealth style.

FENDER:

Reinforced fender system engineered to absorb high-impact forces without loss of structural integrity.

DECK:

Deck and cabin are self-bailing.
Deck has an anti-slip surface treatment for all-weather operation.
4 mooring cleats.
Space at the aft area for two 5.3 m. inflatable ribs.
Possibility to install two weapon stations, one in PS and one in SBS.

CREW & CONFIGURATION:

The cabin has one rapid entry and exit via a hinged gull-wing door type placed at the aft. Inside the cabin there is space for 4 core crew + 12 tactical operators all of them sitting on individual shock-absorbing seats. A toilet is placed at the front dog house of the cabin. 4 core crew sitting on individual shock-absorbing seats.
12 tactical operators sitting on individual suspension seats.
1 hinged gullwing type door on the aft side of the deck-house.
Integrated climate control with defog and defrost system for windows through hot air blowers.
All windows are glued into the structure.
LED lights in cabin and cockpit.
Comfort insulation in the cabin.

PROPULSION & POWERTRAIN:

2 x Scania DI 13 6 cylinder Diesel engines coupled to water jets or equivalent high-trust propulsion.
ZF 400 speed-shift gearboxes or equivalent.
Joystick-controlled electronic steering for precision handling.
A generator system ensures auxiliary power for mission systems and redundancy.

TANKS:

Structural Diesel tank with hatch and filling protection.
Independent freshwater tank.
Independent black water tank with odourless filter.

ELECTRICAL SYSTEM & LIGHTING:

All electrical wiring in marine cable.
Shore power with control lamp, marked fuses, earth connection.
24V Marine-grade electrical system with isolation trans-former and shore power interface.
Main switches with separate battery systems for start, navigation, and consumption.
Generator set P8000 I PMS or equivalent.
1 x searchlight on cabin roof, remotely operated (optional)
Navigation lights.
2 x floodlights on the fore & aft deck.

ELECTRONICS & NAVIGATION:

Military-grade navigation suite: Magnetic compass, radar, echo sounder.
Full mission lighting control panel.
Optional roof-mounted remote searchlight and dual deck flood lights.

SURVIVABILITY SYSTEMS:

Automatic fire suppression system in engine compartment.
Manual extinguisher at helm.
Multiple bilge pumps for compartmentalised damaged control.
Independent fresh and black water tanks with odour filtration.

PRO:ZERO



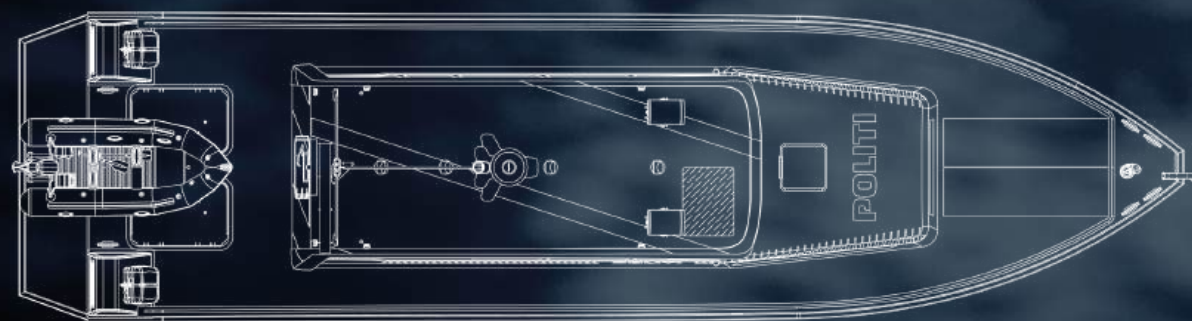
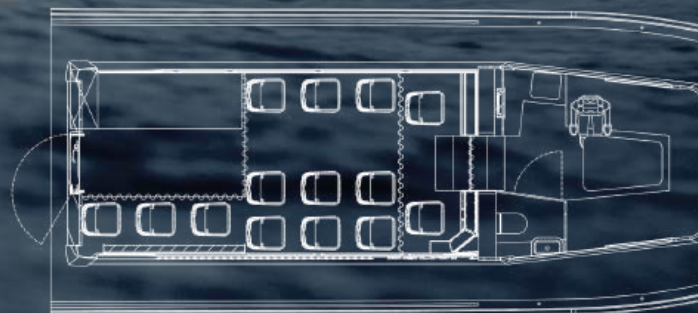
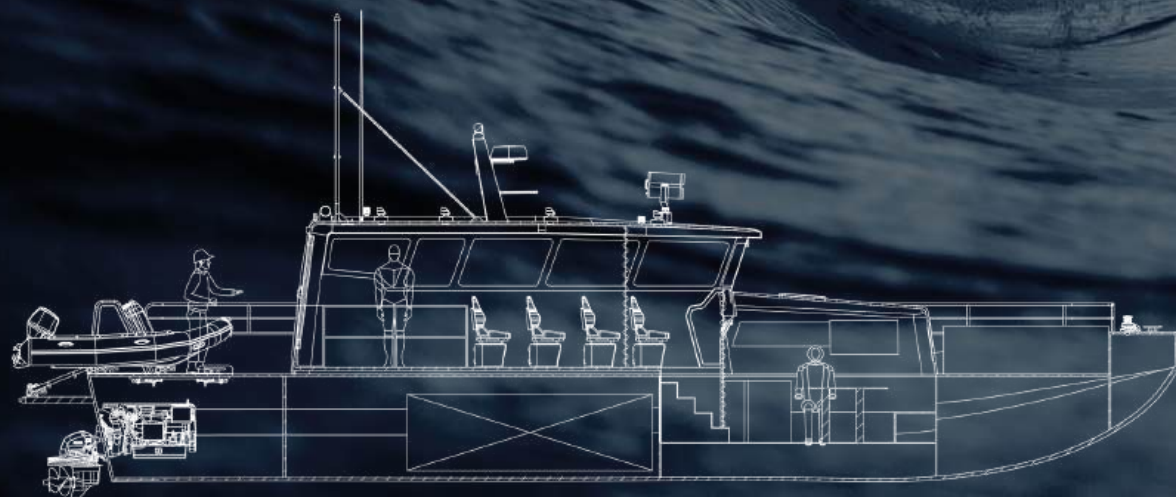
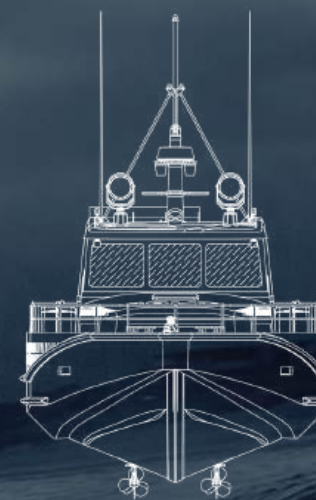
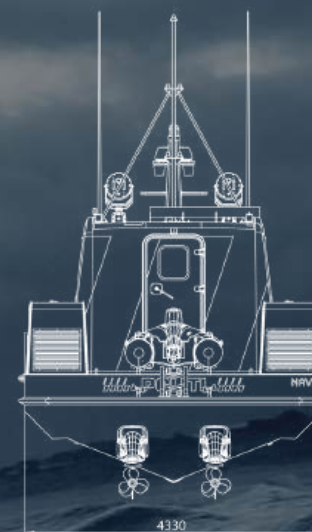
MAKING THE MOST OF IT

The ProZero 16m Patrol is designed to accommodate law enforcement specialists, crews and interception teams, and the latest equipment in addition to a dedicated helmsman and crewmember. The hull has been specially adapted to address two challenges that are hard to solve at once: on the one hand the low drag in order to be reach high speeds and minimize fuel consumptions, and on the other hand antiroll and great course stability preforming high speed missions. The 16m Patrol Boat can be supplied with a variety of propulsion systems such as Z-drives, IPS, Waterjets or surface drives.

The advanced onboard equipment includes high-tech communication, weapons locker, dedicated office space for interrogations and stretcher positions for injured persons. The ProZero 16m boat can as well be built to offer an exclusive track mounting system which allows the operator to rapidly configure the deck to accommodate a variety of extra equipment, weapons and other mission-specific payloads.

The cockpit layout is arranged to maximize the use of state-of-the-art operations management and situational awareness electronic aids.

16m PATROL BOAT



REFERENCES



*To the above comes a large number of businesses within Renewable Energy and Offshore that are covered by Non-Disclosure agreements



PRO:ZERO

Fast Boats for Professionals



TUCO

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