

# **QUICK REACTION WATERCRAFTS**



Photography: Jonas Wall

**MADE IN SWEDEN**



[www.equipnor.se](http://www.equipnor.se)



Our products is not designed for holiday activities or fun sports, our products are built to bring professionals into and out of line of fire and to save lives. Our products is designed to PERFORM WHEN IT COUNTS, no matter environment or sea conditions

We design our crafts to perform in harsch conditions and to always fire up when you push the button. We have more than 15 years experience of building reliable watercrafts for rescue services, military and law enforcement personnel on the global arena. Our team of engineers, technicians and boat builders are dedicated in building the most reliable and mission specific watercrafts in the market. Every detail in our products have a purpose and every solution can be justified for the sole purpose.





# GUARDRUNNER QRW™



Pax: 2 operators + Light equipment | 45+ knots

The Guardrunner QRW is a fast, rugged and reliable watercraft based on the Yamaha GP1800R chassi. It has a reinforced hull coated with an extremely strong and abrasion resistant polyrea coating. It has a protective keelguard and will withstand extensive abuse and hard beach landings. The Guardrunner QRW is equipped with stability tubes surrounding the lower front and side areas of the craft. This gives the Guardrunner QRW unique stability and handling performance in all environments and ables it to work close to large ships (boarding) and in heavy seas.

We offer 3 different drivetrain power options based on the Yamaha 4-cylinder, 1.8L, 4-stroke engine which is one of the most reliable engine constructions in this watercraft segment. All of our drive train options are built and tuned for optimized reliability and rideability for extended professional use. Power options are: Suction type, Electrical Turbo or Supercharger.

Our engines/jet-propulsion is modified and tuned by Stenborg Powersports in Sweden.



Both platforms can be equipped with auxilliary electrical circuits for optimized electrical redundancy as well as with double fuel cells (70 x 35 liters) for extended range capacity. This together with the rugged hull reinforcement and stability tubes provide the end-user with a highly reliable platform that can be equipped with a number of tactical accessories and capabilities.

### Features

- Length: 3.75m
- Beam: 1.53m
- Draught: 0.3m
- Weight, approx: 395kg\*
- Fuel capacity: 70L (+35L optional)
- Fuel: Unleaded
- Range: 100-120 Nm
- Hull and sponson protective coating
- Keelguard for protection of hull and keel
- Lifting points: For handling by crane / helicopter
- Attachment points for towing (front/aft)
- Integrated or external battery charger
- Auxilliary Electric Circuits
- Internal splashproof storage 130L

### Engine options

- 4-cylinder, 1.8L High Output, 4-stroke, fuel injected
- Turbocharged, 4-cylinder, 1.8L High Output, 4-stroke, fuel injected (External Turbo system, activated by operator)
- Supercharged, 4-cylinder, 1.8L Super Vortex High Output, 4-stroke, fuel injected

\*Depending on accessory package and engine option

# SEARANGER QRW™



Pax: 4 operators + Pilot + Light equipment | 35+ knots

The SeaRanger QRW is built on a Yamaha watercraft platform with a hull/tube integration console. It is a unique and highly capable watercraft designed to be used for fast and agile transportation of small units and equipment. The design enables operations in all types of water; shallow water, narrow bays, narrow passages or in open water with strong seas. The SeaRanger QRW creates an unmatched capabilty for both fast and stealthy movement as the platform enables the same inaccessible paths of advancement as a normal jet ski.

The final body configuration is designed in dialogue with the customer. To this date we have designed two body versions, one single and one twin seater option. The single seater option offer an aft deck with enhanced load capacity and inspection/cleaning hatch for quick field cleaning of the jet propulsion system. The extended load area of the single seater can be equipped with our loading rack system including attachment rails and hard cases of various sizes. The tubes of the Searanger QRW is equipped with fixed MOLLE-patches so that mission specific equipment can be attached directly to the tubes.



### Features

- Length: 4.20m
- Beam: 2.30m
- Draught: 0.3m
- Weight, approx: 495kg\*
- Fuel capacity: 70L (+35L optional)
- Fuel: Unleaded
- Range: 100-120 Nm
- Hull and sponson protective coating
- Keelguard for protection of hull and keel
- Lifting points: For handling by crane / helicopter
- Attachment points for towing (front/aft)
- Integrated or external battery charger
- Auxilliary Electric Circuits

### Engine options

- 4-cylinder, 1.8L High Output, 4-stroke, fuel injected
- Turbocharged, 4-cylinder, 1.8L High Output, 4-stroke, fuel injected (External Turbo system, activated by operator)
- Supercharged, 4-cylinder, 1.8L Super Vortex High Output, 4-stroke, fuel injected

\*Depending on accessory package and engine option



## BOAT BUILDERS BY TRADE

Safe at Sea are boat builders by trade and the boats are handcrafted in Gothenburg on the west coast of Sweden. Inhouse capacity includes; plastic works, steel works, joining, painting and coating, electrical design and installation, drivetrain builds and engine tuning. Build capacity of about 70-80 boats/watercrafts per year.



## PURPOSE BUILT TO CUSTOMER SPECS.

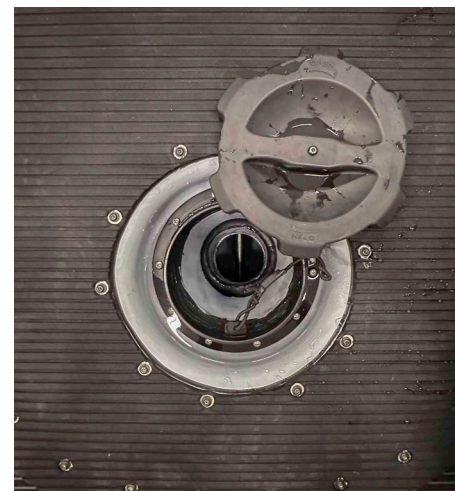
Every project starts in dialogue with the customer. We know by experience that there is not ONE patent solution for all operations, therefore we offer extensive opportunities to adapt the platforms for your specific needs. We understand the meaning of reliability, it must never be the operators equipment that is setting limits in solving a task.

## SOLUTION ORIENTED APPROACH

We understand the customer environment and with experience from a variety of projects and requirements we continously evolve our capabilities within building purpose built boats with mission specific features. We have the ability to design hulls, body and tubes for specific needs, we use polyurea coating and keel guards for ultimate protection so that our boats withstand abuse and beach landings. Hull/aft extensions and chassi modifications together with electrical installations and drivetrain modifications is examples of procedures performed in our facilities on the Swedish west coast.

## MISSION CRITICAL RELIABILITY

From 15 years experience of building SAR watercraft systems used on the global arena in a great variety of emergency environments we have in-depth knowledge of the pro's and con's of small boat systems and in-field challenges. We understand the need of different solutions depending on a vast variety of factors and user environments. We provide extensive courses in riding the crafts as well as perform all levels of maintenance and repairs throughout the life span of each craft. Our watercrafts are built to perform in harsh and hostile environments and designed so that the operator can perform his duty even when various mishaps occur.



## TESTED AND VERIFIED

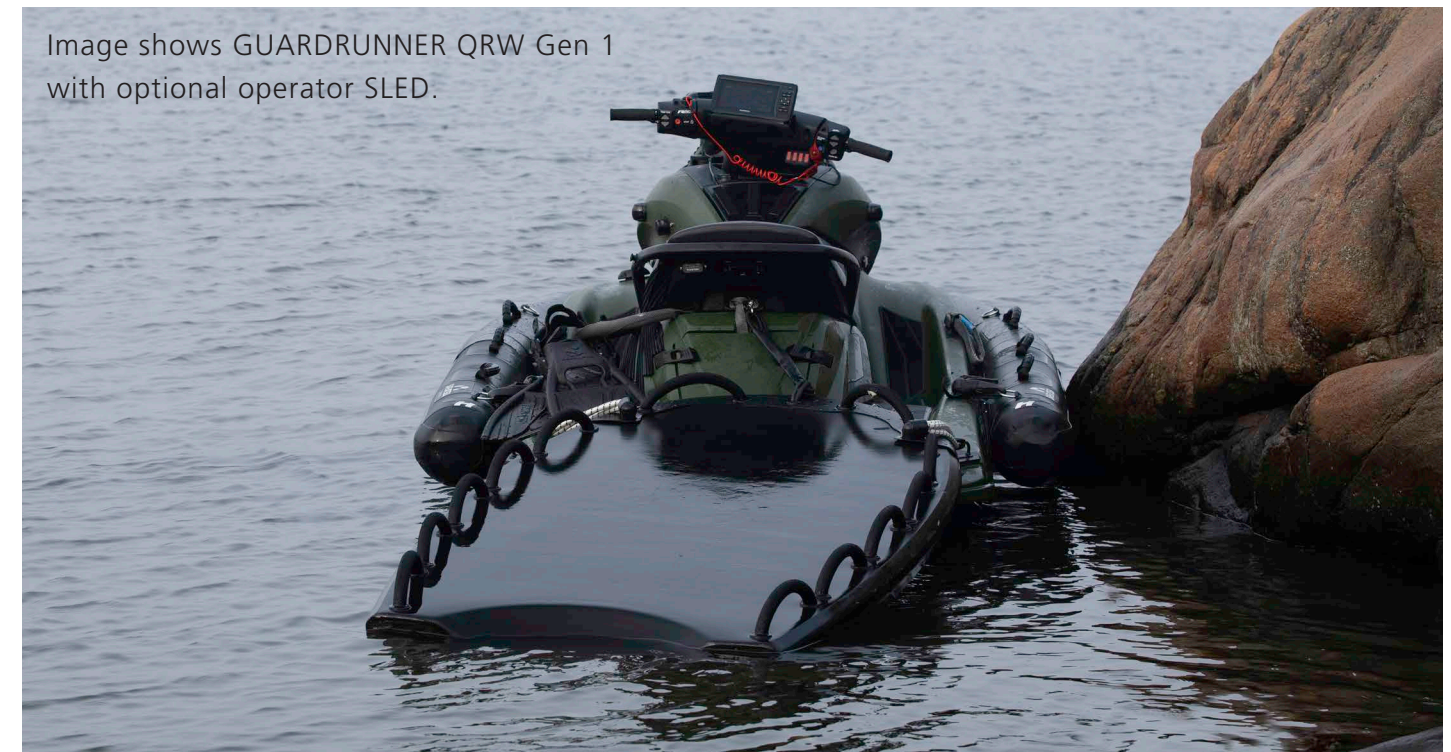
Our watercrafts are designed, built, tested and verified to withstand abuse, wear and tear in hostile environments. Quick launch methods from high piers is no exception. Our watercrafts are drop tested from 2,5 m without taking any damage. Launch them, push the button and go!



## COMPLETE SYSTEMS SOLUTIONS AND AFTER MARKET SUPPORT

Depending on customer requirement and need we can supply the boats alone or as complete systems solution including launch platforms for launch from vessels and piers, storage and maintenance containers, a great number of optional accessories and safety equipment for pilot and operators. We are closely connected to some of the most competent suppliers of premium tactical equipment in Europe and can supply complete pilot and operator equipment for maritime operations above and beneath the surface.

Image shows GUARDRUNNER QRW Gen 1 with optional operator SLED.





# A WORKHORSE ON WATER

## BUOYANT AND STABILIZED

When the Searanger QRW slows down to zero, the external side hull sections is filled with water so that the watercraft stabilizes as a working platform. When the watercraft accelerates, the external side hulls is quickly drained of water in order to quickly come up to speed.

## SWEDISH MADE HIGH-END TUBES

Our watercrafts are equipped with tubes made from rugged Hypalon and through Swedish handcrafted quality. We offer single or multi section tubes as well as foam filled variants if decided in dialogue with customer. The Searanger QRW in this image are equipped with a 5 section tube with extremely abrasion resistant Polyrea coating on the front section. The tubes can be fitted with our MOLLE attachment patching system so that the user unit can fit equipment or signature management solutions directly onto the tubes.

## STERN SECTION

We offer single and double seater versions of our watercrafts. The single seater version offer a large open deck/load area that can be fitted with our quick load rail system providing the opportunity to fit hard cases and similar into a quick attach and release system.

We offer a cleaning hatch system so that the operator get direct access into the jet water intake for removal of seaweed, dirt or similar related to shallow water environments.





## A MULTI-ROLE PLATFORM

We prefer to say “platform” as the boats are individually built for each specific customer and need. Our production partner Safe at Sea perform all types of builds and modifications.

- Hull extensions, modifications and rebuilds
- Modification and tuning of drivetrain
- Design and modification of electrical system
- Modification and installation of fuel cells
- Modification of tubes
- Installation of all optional accessories
- Maintenance, service and up-fit
- Launch and storage systems for launch and recovery from larger ships
- Launch and recovery systems for road transport
- Storage systems

## ENGINE/PROPULSION

We use Yamaha engines as they have proven themselves to be the most reliable and safe engines with a robust construction from the bottom, up. The 1.8 Litre design (1.9 litre in 2024) provide great torque and great power throughout the RPM-range. Yamaha uses an open type of cooling system with a minimum of moving parts, which provide a safe and easy to maintain system. The jet propulsion package on our crafts is tuned to perform hassle free and we offer constructions with a fast access tunnel to the jet in order to provide easy field cleaning if the intake gets clogged.

We offer 3 different engine options and each option can be further tuned to various specifications according to customer requirements. The three different engine options offer different output and driving behaviour but still with a high level of engine reliability.

**1. 4-cylinder, 1.8 Liter High Output, 4-stroke, Electronic Fuel-Injection (suction type engine)**

**2. Turbo charged, 4-cylinder, 1.8 Liter High Output, 4-stroke, Electronic Fuel-Injection.**

This engine option uses an electrical turbo conversion system that is active only when the operator activates it and need the extra power/speed. The Turbo is activated/deactivated through a button at the steering handle. This specific turbo system is an external system that does not in any way affect the engine when not in use. This is from our point of view the absolute best option as it does not affect the engine over time the same way as a supercharger. Another positive thing with the Turbo option is that the total fuel consumption is kept to a minimum which increases range. The Turbo activated increases engine output with 35-40% in the mid to upper RPM-range..

**3. 4-cylinder, 1.8 Liter Supercharged High Output, 4-stroke, Electronic Fuel-Injection.**

This is our most powerful engine option and as the supercharger is a direct part of the engine itself it provides power throughout the RPM-range/powerband. The backside of the supercharger option is that if the supercharger breaks, it will make the engine loose most of its power output.

We have Rescue Runners with matching numbers and 12 years of service (900 service hours) still operational which is a speaking reference for the Yamaha engine.







# ***GUARDRUNNER QRW™***

UNIQUE PERFORMANCE AND STABILITY IN ANY ENVIRONMENT





**Auxilliary electrical system**

With two parallell separated circuits which provides optimized electric redundancy. If one circuit breaks you just switch to circuit 2.



**Extended fuel capacity**

70 + 35 Litre fuel capacity divided on 2 separate tanks, providing an effective range of 100-120 nautical miles.



**Turbo activation button**

The electrical Turbo is activated/ deactivated from a button below the steering handle.



**Night vision enhancement**

As partner with Danish Wiseled we can equip our watercrafts with IR-illumination in various wave-lengths, variations and strenghts.



**A variety of drivetrain options**

Our boat builds rely on the well proven Yamaha 1.8Litre 4-stroke concept. Depending on customer need we can offer 3 different engine packages.

- 1.9L High Output
- 1.9L Turbocharged High Output
- 1.9L Super Vortex High Output

Our demo unit is equipped with a unique Turbocharged engine which deliver "extraction power" only when you need it. This solution saves the engine and maintenance costs, reduce the fuel consumption as well as bringing the team back to safety in 60+ knots



**Switch panel**

Built to customer specs. and needs. The switch panel is programmable and standard configuration below can be changed.

- From left to right:
- Bilge pump
  - Handle heater
  - GPS on/off
  - Kill switch acoustic alarms



**Tube Accessory Attachment System**

Our Tube Accessory Attachment System provide the user/unit to quickly attach/detach optional mission equipment. A variety of highly durable lasercut MOLLE attachment patches is fixed to the tube and uses a variety of attachment straps and multi-adapters to fix optional equipment to the tube.

Loading rails/racks can be attached on the aft platform or in the deck sections in between the tube and the frame construction.



## QUICK REACTION WATERCRAFTS BUILT TO CUSTOMER REQUIREMENTS

Regardless of model, engine or equipment options, our platforms offer very good maneuverability, safety and performance, independent of the operational environment. In shallow water, narrow bays, narrow passages or in open water with strong seas our SeaRangerX provide very high reliability. We know with our long experience that there is not ONE patent-solution for all operations, therefore we offer extensive opportunities to adapt the platforms, for your specific needs. We understand the meaning of reliability, it must never be the operator's equipment that is setting limits in solving a task. Adaptations and delivery times is presented in dialogue with the customer.

### ADAPTATION TO CUSTOMER NEEDS

We are experts in boat building with inhouse competence and capacity to design and build our boats from scratch to customer specific needs. We usually start from our fundamentally very competent basic platforms and can do everything from minor interventions in electrical systems to major modifications such as e.g. hull extension, aft work platform, engine modifications, etc.

We build our boats in Gothenburg, Sweden and offer a full service factory. We have a strong network of local industry partners supporting with steel constructions, special coatings, engine conversions, etc.

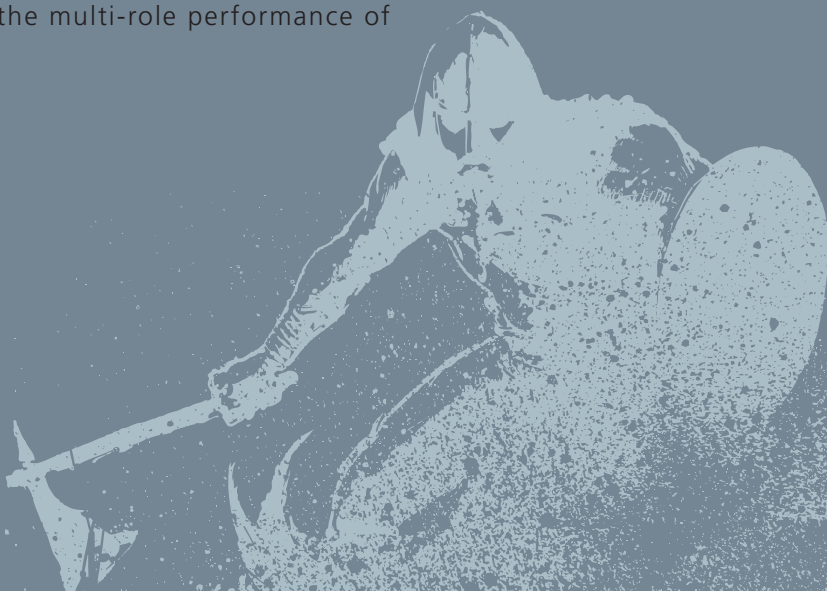


**equipnor** | Strategic partner | Defence sales rep.

Equipnor AB is a Swedish supplier of defence equipment and is part of the NFM Group. Equipnor AB was founded in 2008 and holds a great number of large contracts with Swedish government customers within the LEAF-business area. The maritime section of Equipnor AB holds extensive competence within maritime equipment for military and law enforcement activities at sea and act as sales partner to Safe at Sea. Equipnor AB holds extensive business and hands-on competence on watercrafts, tactical diving equipment, weapons, multi-spectral camouflage systems, night vision/thermal/illumination sensors, ballistic protection and other components and systems increasing the multi-role performance of tactical watercrafts built by Safe at Sea AB.

### Some of our partners:

- Teledyne FLIR
- Dillon Aero Inc
- Fjord Defence
- GENTEX/Ops-core
- Persistent Systems
- First Spear
- Core Survival
- Aqualung Group
- ScubaPro
- Waterproof PRO
- Watershed
- TYPHOON Diving
- RTSys
- SUEX Special Ops
- SRS
- WiseLED
- Tactical Electronics
- TEAL Drones



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