



A powerful, economical,
high speed and highly
manoeuvrable vessel
with unique benefits

skorpion 
SEA MACHINE



IST
MARINE

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CONCEPT & DEVELOPMENT

IST Marine Limited was formed by Ivor Tiefenbrun MBE to exploit the Sea Machine platform - a safe, versatile, compact vessel for "more serious" multi-role marine applications. The sea machine has been developed to deliver exceptional performance, rather than to sell by specification or price.

The Sea Machine platform is designed around a small, high power-to-weight ratio fuel-efficient twin diesel waterjet propulsion system. The design emphasis has been to produce the most compact vessel that would satisfy fully the fundamental requirements of demanding marine applications.

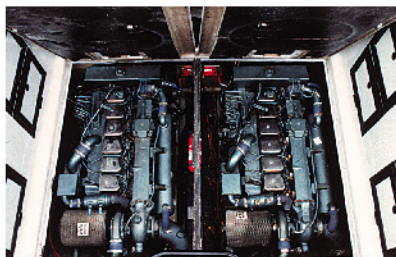
The result is something very remarkable indeed - a unique combination of exceptional seakeeping with an unprecedented level of control and manoeuvrability. This high speed and powerful vessel has outstanding sea going abilities, and is very economical in operation.

The Skorpion demonstrator proves that a 12 metre ultra-stiff lightweight twin waterjet powerboat can offer exceptional and unrivalled performance. High speeds in excess of 40 knots can be reached by this very stable craft and with its very low centre of gravity, it has the ability to stop within its own length from full speed. More importantly, performance can be maintained in a wide range of sea conditions for over 400 nautical miles with a payload of up to 1.5 tonnes. One of the major benefits is the protected accommodation in three cabins and near 360 degree visibility from the semi-enclosed wheelhouse and deep sheltered cockpit. This discrete fast-reaction craft can operate in open seas and confined spaces for reef waters and river work and in adverse conditions.



100% PERFORMANCE

The Skorpion sea machine will out-perform and out-manceuvre semi-rigid or light assault craft, whilst offering superior accommodation and protection for its crew and payload. Unrivalled static and dynamic stability, combined with a shallow draft, superb manceuvrability and high speed means that Skorpion has to be demonstrated and experienced to enable potential users to begin to appreciate its exceptional sea keeping and outstanding performance.



APPLICATIONS

The state of the art design and technology allow Skorpion to address a wide range of demanding tasks, including military and police patrol roles, customs, coastguard, rescue and a wide variety of other military and commercial applications.

This powerful vessel can be fitted with a range of machine guns, missiles and radars. Protection for above water weapons can be built in dependant on customer requirement. The Skorpion is designed to create minimum wake with no rooster tail and has the ability to operate in shallow waters, making it particularly suitable for operations that require stealth and secrecy. The vessel is air-transportable and can be handled by the standard NATO five-ton derrick.



TYPICAL SPECIFICATIONS

- ◆ LOA 12m, Beam 3m, Draft 0.5m, Displacement 5,000kg
- ◆ Spacious interior with three cabins, galley and head
- ◆ Twin 300HP 6 cylinder Marine Engines driving twin integral water jets
- ◆ Hull Sandwich construction using Epacryn resins, Herex and Airex closed cell foam bonded with a mixed Kevlar/glass unidirectional and Quadrax rovings
- ◆ Control instruments comprise: rev counters, engine hour meters, oil pressure gauges, water temperature gauges, battery volt meters and fuel tank indicators, warning lights etc
- ◆ Hydraulic steering and jet drive, forward, reverse and trim control
- ◆ Radar set, autopilot with helm indicator and digital electronic steering compass
- ◆ VHF radio, electronic log for speed, distance and depth metering
- ◆ Lighting by 3x129 amp/hr batteries charged by 2x60 amp/hr alternators
- ◆ DOT steaming, stern, port and starboard lights fitted on masts & side of wheelhouse
- ◆ Triple electric fitted bilge pumps
- ◆ Powerful alloy mooring cleats and secure anchor and chain locker
- ◆ Stowage areas port and starboard
- ◆ Escape hatches in the forward and main cabins
- ◆ Hull construction materials, format and the internal accommodation layout and machinery and equipment can be customised to suit particular end user requirements



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