

Feature	Benefit	Hov Pod Hovercraft Product Comparison			
		Hov Pod SPX TCC 65HP	Hov Pod SPX TCC 120HP	Hov Pod Carbon Infinity 120HP	Hov Pod Carbon Infinity 155HP
High Density Polyethylene Hull	Far stronger than glass fibre, extremely buoyant, easy to fix additional items too - (glass fibre needs backing plates), noise reducing properties to deaden sound. Very resistant to typical hovercraft impacts, used in F1 race crash barrier systems	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Carbon Fibre / Kevlar Composite Hull	Far stronger than glass fibre. Kevlar as used in bullet protection systems. Carbon Fibre is extremely strong yet very lightweight, so offers a far superior power to weight characteristics to carry more passengers and equipment at lower cost, compared to Aluminium hovercraft - faster production for improved delivery times	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Engine Type	Superior high power to low weight characteristics, we selected these engines for quality of build, international support and documentation after rejecting uprated out of spec commercial engines and engines from Hirth and Moto Guzzi.	2-Stroke Liquid Cooled Rotax 582	Polaris Cleanfire 120HP	Polaris Cleanfire 120HP	Polaris Cleanfire 155HP
Dimensions Length	Easy to tow and transport, and can be airlifted for flooding emergencies when road and bridge infrastructure is damaged. Easy to tow by standard car - no special transporter required; easy to carry on traditional vehicles and can be supplied with 45 second quick launch trailer. The narrow width means the craft can be quickly and safely transported to normally inaccessible areas, deployed anywhere, launch and return to shore without special ramps, slipways, roads or prepared infrastructure or the need for operators to disembark into water. The size makes it easy to store under cover - no special buildings need to be erected.	3.63m, 11Feet 10 Inches	3.63m, 11Feet 10 Inches	4.75m, 15 Feet 7 inches,	4.75m, 15 Feet 7 inches,
Dimensions Width		1.9m, 6 Feet 2 Inches	1.9m, 6 Feet 2 Inches	2.25m, 7 Feet 5 inches	2.25m, 7 Feet 5 inches
Dimensions Height		1.49m, 4 Feet 10 Inches	1.49m, 4 Feet 10 Inches	1.55m, 5 Feet 1 inches	1.55m, 5 Feet 1 inches
Weight	Lightweight for great performance without compromising durability	325 Kilos, 685 Pounds Depending on options selected	380 Kgs, 837 Pounds Depending on options selected	425 Kgs, 815 Pounds Depending on options selected	425 Kgs, 815 Pounds Depending on options selected
Payload up to on water	The Hov Pod Carbon Infinity can seat up to 9 people max. 7 standard. Check weight of payload, passengers and additional equipment to select the model most suitable for your needs.	275 Kgs 608 Pounds	325 Kgs 718 Pounds	500 Kg, 1105 Pounds	545 Kg, 1200 Pounds
Payload up to on land		412 Kgs 912 Pounds	487 Kgs 1077 Pounds	675 Kg, 1491 Pounds	726 Kg, 1600 Pounds
Seating	Flexible seating to suit leisure, rescue, commercial and military applications	Up to 3	Up to 4 with optional bench seat	Up to 9 with optional bench seats	Up to 9 with optional bench seats
Fuel Tank (Standard)	Flexible and range can be extended by fitting additional tanks.	25 Litres 6.6043 US Gals can be extended by drop in additional tanks	28 Litres 7.396817428 US Gals can be extended by fitted additional tanks	33 Litres 8.71768 US Gal Standard or user customizable by fitted additional tanks	33 Litres 8.71768 US Gal Standard or user customizable by fitted additional tanks
Normal Cruise Speed	Fuel efficient cruise speed	22 mph / 35 km/h (Dependent on conditions)	22 mph / 35 km/h (Dependent on conditions)	22 mph / 35 km/h (Dependent on conditions)	22 mph / 35 km/h (Dependent on conditions)
Top Speed	Fast responsive top speed.	Up to 40 mph / 65 km/h (Dependent on conditions)	Up to 40 mph / 65 km/h (Dependent on conditions)	Up to 40 mph / 65 km/h (Dependent on conditions)	Up to 40 mph / 65 km/h (Dependent on conditions)
Range/Hours	Flexible to suit applications	Up to 2.15 hours 48 miles on one tank, at cruise speed, dependent on conditions	User customizable	User customizable	User customizable
Hover Height	Fly over obstacles that would damage other vehicles, minimal wear - no need for propellers to get snagged on underwater obstacles, street furniture and wire fences during flooding	0.25m or 10 inches			
Freeboard	The Hov Pod has a high Freeboard, making it difficult for water to ingress into the hull. Some hovercraft have a very low freeboard, which allows water to easily ingress or enter into the cockpit. Water is heavy, and can easily flood a vessel with low freeboard. If water ingresses into a hovercraft, the water can flood the engine and cut power, so a high freeboard is crucial to safe operating.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>
Standard Hull Colours	Personalise according to requirement.	Red, Blue, Teal and Yellow		Natural Black	Natural Black
Non Standard Colours available as option		Rescue Orange, Desert Sand, Lime, and White. Colour match to supplied RAL Swatch sample		Non Standard Camouflage on request	Non Standard Camouflage on request
Carbon Fibre / Kevlar Composite Hull with HDPE Trim -	Lightweight, very strong, providing superior weight to performance characteristics, low cost of payload weight per \$, high value and noise reducing properties.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
High Density Polyethylene Hull (HDPE)	Far stronger than glass fibre, exceptionally strong, very buoyant material, noise reducing properties. Easy to fix to, no backing plates required. Easy to repair.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Single engine design	In designing the Hov Pod we considered whether to use one or two engines. By using one engine to provide both the Hov Pod's lift and thrust this minimises the number of components and electrical circuitry and offers the customer greater reliability and peace of mind. If a second engine were to be used it would need to be situated in front of the cockpit and this has high reliability problems as it is exposed to water ingress when operating in rough conditions which can cause it to stop quickly.  We deliberately choose not to have a 2-engine design, since this creates greater maintenance and servicing and a front lift engine adds weight to the front of a hovercraft and is exposed to salt water.  Hovercraft can stop very suddenly if the nose is too heavy, this problem is well known among hovercraft enthusiasts, and referred to as "ploughing in". Ploughing in can also occur if a hovercraft has two sets of controls as is the case with a double engine design but applying thrust with insufficient lift. If a wave should crash into the fan assembly on this engine, this will also cause the hovercraft to stop suddenly. Of course, having two engines adds weight, requires more maintenance, generates more noise and fumes in front of the driver. Two sets of controls complicate driving, so these craft are not popular for this reason. Many cases have occurred where the driver drops the wrong engine RPM so at full speed they suddenly lose all lift and stop very abruptly ...or with full lift they lose thrust and dangerously glide on without any control or steering.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Noise reduction large duct	More powerful engines allow us to push more air through the larger than average sized duct. More power allows fan blades to be angled to generate more air throughput - most hovercraft noise is caused by restricted smaller less efficient ducts, less efficient engines which require faster fan blade rotation speed -creating high pitch whine.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
IAPSS Anti-plough skirt and air management system	IAPSS Anti-plough skirt and air management system, comprising of 4 different shaped skirt segments (65 for SPX TCC models, 85 for Carbon Infinity model) to reduce ploughing problems, providing optimized trim to negate need for elevators, simplifying operation.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Battery and charge system	The Hov Pod is fitted with a 12v charging system so that the additional safety items such as lights can be fitted as required. Hov Pod uses a larger than required, sealed car battery which offers regular and reliable starting and safety against the escape of dangerous explosive gases and burning battery acids.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Quick disconnect battery for safety	The battery is fitted with a quick disconnect coupling so that at all times the craft can be quickly and easily isolated in seconds for electrical safety and maintenance. Although this is costly the urge to "not disconnect it this time" is eliminated and this means that maintenance is safer. Although it would be cheaper to specify conventional battery terminals, Hov Pod specification calls for safety, ease of operation and service; as per our design ethos and philosophy.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Skirt Material - Polyurethane coated anti-rip weave nylon, triple nylon stitched.	Our own unique weave of Polyurethane Coated anti-rip nylon weave segmented skirts 375 Gsm (Very high wear and rip resistance). Very strong polyurethane coated anti-rip nylon weave, triple stitched in nylon, with double floor section to minimise wear, for longevity of use. We rejected other fabrics such as neoprene coated nylon due to UV degradation and rejected Hypalon due to low strength for weight which means they tear too easily.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Front fan guard stainless steel and powder coated	Stainless steel prevents anti-corrosion	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Rear fan guard stainless steel and powder coated	Other hovercraft suppliers do not fit a rear guard to prevent air loss through the duct for better performance with cheaper under-powered engines, but all hovercraft fans have easy accessible high speed rotating parts and we consider customer safety of paramount importance, and will not compromise safety to save money.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

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Guard clips	Many craft use a simple rubber clip or a plastic "P" clip to hold the fan guard on. This is not suitable and is an unsafe practice. If the fan was to break and fly apart the guard could be easily ripped out of its location, we use stainless steel "P" clips into a metal thread located in the duct.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Fast stopping	When stopped suddenly in a straight line on water, other Hovercraft can suddenly dig in or spin to the side. The Hov Pod can however be rapidly stopped on water in a smooth controlled straight line without the risk of suddenly digging in, or spinning to the side.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Full underside aluminium runners and shock pad system for hull protection	Hovercraft travel over ice, concrete slipways and rough surfaces, so we ensure proper underside protection is provided for longer product life.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Kevlar under hull	Kevlar is often used in bullet protection systems to ensure complete protection.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
HDPE Engine cover protection, noise insulated flexible un breakable	This cover protects the engine from salt spray, whilst allowing air throughput to reduce engine temperature, and the HDPE material dampens the noise of the engine.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Inboard exhaust system	Integral exhaust system to prevent accidents from burns - other hovercraft often have exposed exhaust systems, that wrap around the outside of the duct that can cause nasty burns - customer safety is a priority.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Marine grade stainless steel parts, rudders, steering cables, engine fittings.	For protection from salt water spray, product longevity, to minimise problems caused by corrosion in the marine environment.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Flexible CV Joint engine coupling	This coupling transfers the energy from the engine to the gear pulley, so is an essential part, and ensures flexibility for transfer of power, trouble free operation.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
CAD / CNC engineering part design and manufacture	For digital accuracy, low wear, minimal vibration resulting in extended part life expectancy, product longevity, reduced servicing related costs.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Electrical protection IP65 and IP66 IP Code, International Protection Marking	Protects wiring from corrosion and short circuiting for operations within the marine environment.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Electrical protection - marine safe wiring housing	Protects wiring from corrosion and short circuiting for operations within the marine environment.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Kill cord engine disconnect safety protection feature	In the unlikely event that the driver should fall from the craft while it is in motion, the kill cord will cut the engine power if the kill cord is worn as recommended.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Rear view mirrors	Provides rear vision for the driver to ensure passenger and bystander safety	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Edge Protection (some craft use inflatable hulls or have thin impact sides)	Hov Pod incorporates extensive features to minimise the risk of damage to the craft. A rubber impact bumper strip surrounds the craft to protect it against minor scratches and knocks. Under this rubber strip is positioned a full aluminium impact plate. In addition to the HDPE this aluminium plate will protect the craft against knocks that would otherwise crack and break GRP craft. To absorb the energy and load of even harder impacts the aluminium strip is attached at the point where the hull and deck meet giving amazing side impact protection. This means that impact taken by the aluminium strip is reinforced by and transferred to the thickest section of the craft.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Anti slip raised floor surface	To ensure driver and passenger safety	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Aluminium billets drive pulleys	The drive pulley on the right is machined from a "billet" or solid piece of aluminium. CNC (robotically) machining from a single billet of metal is a more expensive process but produces far better parts without the risk of moulding flaws or cracks. All the Hov Pod metal drive parts are manufactured by this method. It was necessary to redesign many components for the Hov Pod because off-the-shelf supplied components were found unsatisfactory or prone to part failure. The advantage of CNC machining is that very accurate parts can be produced to ensure components fit together to the correct highly accurate digital engineering tolerances. The drive parts are machined from aluminium billets, we then hard anodize the surface to make it even tougher to abrasion. This is far more expensive than using a casting but is far safer as castings can contain hidden flaws and weak points. Castings are more prone to failure due to hidden flaws. Aerospace and aviation parts are made by CNC machining from billets.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Easy servicing	Simple design and easy access to all components mean that servicing does not require specialists and downtime is minimized. Extensive safety features gives operators worry free operation.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Simple controls	The low centre of gravity combined with a simple single engine design and with all unnecessary elevators, trim levers etc. removed, ensures great manoeuvrability and very simple operation. Simplicity of design means that with minimal operator training all operators can grasp the basics of operation after only one hour's training. This enables multi operator use where the operator can concentrate solely on the task in hand without the need for specialist pilots. Many craft incorporate complex joysticks and elevator controls and/or reversing mechanisms that make safe operation far more confusing. Our design philosophy was to keep it as simple as possible for operators to use the craft. By paying particular attention to the design, operation, interaction of the controls, the feel of use, stability, performance, response, balance and responsiveness of the Hov Pod, extra trim controls and elevators are not needed. We eliminated the need for trim levers, elevators and reverse mechanisms to ensure that the craft are easy to operate.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
High strength drive belt	We fit high quality drive belts that last hundreds of hours to the Hov Pod - customers who have previously used other hovercraft remark how other suppliers fit inadequate belts that snap and need continual replacement. The Hov Pod uses a drive belt recommended for our application by Gates®, the leading worldwide manufacture of belts. The Gates belt, although expensive, is the best available for greatest durability and trouble-free operation.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Fully enclosing Engine Covers	The uniquely designed engine cover system offers excellent protection for the engine and electrics from the elements, yet is very quick and easy to remove	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Under hull Skids	The bottom of the craft incorporates twin longitudinal aluminium skids that protect the craft when coming to rest on the beach and other surfaces. These skids are bolted on, not bonded on like GRP craft, so are very durable yet easy to replace simply by undoing a few bolts. Many craft do not use metal runners and wear out very quickly.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Fuel system	The fuel tank is positioned in a ventilated section of the craft under the rear seat. This ensures that no dangerous fuel vapours can gather in an enclosed compartment or in close proximity with electrical circuitry. This we consider to be very dangerous and poor design practice where considering the operator's safety. Some craft put fuel and electrical parts in same compartment. Some craft even use a fuel tank with no independent safety certificate. The Hov Pod fuel tanks confirm to the requirements of 94/25CE and ISO 21487, the fuel lines are made from a hose graded to EN ISO 7840 A1 and comply with 94/25EC.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
CAD Design for Aesthetics	To provide pride of ownership	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Vacuum formed ABS moulded rudders with stainless rudder shaft	The Hov Pod parts have evolved to ensure that we use the best materials and product processes to provide long product life and protection from salt water corrosion with the marine environment.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>