

Military & Paramilitary

Worldwide leader in the design & manufacture of hovercraft





The home of the hovercraft

Hovercraft are marine vessels which operate by creating a cushion of air between the hull of the vessel and the surface below. They are able to operate over almost any flat surface including shallow water, ice, vegetation, mud, logs and debris, rapids and flood plains.

We enable our customers to engage in tasks in some of the most diverse and inaccessible areas of the world, from the jungles of South America to the frozen seas of the Baltic and Arctic. Despite our customers' diverse requirements, they all have one thing in common - a need to access areas where conventional marine craft cannot go.

Our hovercraft are in use by those responsible for national security and military operations. Current missions include:

- border patrol and surveillance
- policing and customs duties
- marine interdiction and infrastructure security
- troop carrying and troop re supply
- riverine fighting patrol





About Us

Griffon Hoverwork is at the forefront of hovercraft development and has been involved in the manufacture and operation of hovercraft since they were first conceived in the 1950's.

Our success is based upon our commitment to design and manufacture hovercraft that are adapted to the challenging environment and work requirements that our customers face. We have developed a range of craft that support light, medium and heavy payload needs. All can be customised to meet different mission and environmental conditions.

The people at Griffon Hoverwork have a long history of working in the hovercraft industry. The founders of the business set up the world's first hovercraft operation, Hovertravel, in collaboration with Sir Christopher Cockerell.

Our mission is to provide leadership in the design, manufacture and operation of hovercraft and provide our customers with products and services which enable them to readily achieve their objectives.



Why choose a Hovercraft ?

Our hovercraft use commercially available technology, are diesel powered, and use aluminium as the primary hull structure to make them easy to maintain and repair in the field.

Our hovercraft have a range of advantages:

Highly adaptable and amphibious

They can travel over almost any non-porous surface and operate from any unprepared beach or slipway.

High speed

They are fast compared to conventional marine vessels and capable of travelling up to 45 knots with a full payload.

Reliable

Our products are proven over tens of thousands of operating hours worldwide.

Cost effective

They are considerably cheaper to operate than helicopters.

Easy to maintain

Engineers with a good understanding of common user machinery, can service and maintain the craft.

Environmentally friendly

They make minimal wash or wake, and with no underwater pressure signature or propeller there is no impact on marine life.

Why Griffon Hoverwork ?

Our commitment to a customer is paramount and this applies to the timeliness of our delivery, as well as the quality and performance of our hovercraft. Our product performance is proven through the design process and ultimately via real product testing.

We give our customers what they need:

Experience

Our team has been involved in the design, development, manufacture and operation of hovercraft for over 50 years.

Knowledge

We provide expert advice and support from the outset of a project.

Commitment

We are committed to deliver on time, using lean manufacturing methods.

Training

We offer engineering and pilot training from true professionals, the most experienced in the world.

After Sales Support

We offer service and maintenance packages along with support from in-country partners.

Can be classified

Classified by Lloyds Register, US Coastguard and other classification societies.



APPLICATIONS

Border Control

Equipped with high speed and amphibious engineering, our hovercraft are uniquely suited to areas where it is difficult to operate conventional boats. Griffon hovercraft give you the ability to access all border and coastline regions, giving you complete coverage of your tactical operation.

Logistics, Troop & Vehicle Carrier

If you have a requirement to deliver troops and equipment safely and rapidly across a beach, regardless of the state of tide or nature of the surface, then our hovercraft will provide the solution. The Griffon Hoverwork range can be configured for carrying cargo and vehicles up to 22.5 tonnes and be configured to carry differing levels of weaponry and ballistic protection.

Medical Evacuation & Humanitarian Aid

In many parts of the world, access to disaster areas is often only by rivers and is invariably to an unprepared beach or landing zone. In these circumstances, a Griffon hovercraft with hospital and medical evacuation equipment, is the only answer to access dangerous terrain whilst reducing the risk for emergency personnel.

Mine Counter Measures

Hovercraft are less prone to damage caused by the shockwaves of an exploding mine. Their low underwater pressure, lack of contact with the water and lack of electromagnetic signature means they are less likely to trigger a mine explosion compared to a conventional craft.

Surveillance & Weapons Platform

A Griffon hovercraft provides an ideal stable platform. The hovercraft is particularly stable when parked on the ground, this gives the craft the ability to conduct continuous covert surveillance. With the added advantage of direct line, hot pursuit should the opportunity arise.

Patrol & Reconnaissance

Griffon Hoverwork craft can generate an extensive recce capability. They can move from offshore to shore and deep into land via a riverine network. They can deploy and recover foot-borne 'recce patrols' in areas inaccessible by any other craft.

Fast Attack

Our hovercraft are capable of travelling at speeds of up to 45 knots, allowing them to travel quickly to target. Unconstrained by shallow water, mud or land, a Griffon hovercraft is ideal for fast, direct attack, achieving objectives quickly and effectively.

Amphibious Assault

Griffon hovercraft can be used at all stages of an offensive operation. For the inserting of small, specialist teams for reconnaissance, dropping infantry and support equipment directly on shore and facilitating ongoing logistics such as resupplying.





Due to the specialised nature of hovercraft, our dedicated after sales department provides a complete support solution.

Warranty & Support

Griffon Hoverwork has a dedicated after sales department which is committed to working closely with our customers to ensure spare parts are available when they are needed. We provide full scalings of depot and on board spares when a craft is ordered to ensure our customers have the items they need in country. We provide 12 months warranty as standard, beyond this, we aim to maintain a proactive support relationship with our customers.

Training

All our hovercraft are sold with a level of in-country pilot and crew training. Specialist rescue training courses are available along with military, paramilitary, engineering and crew packages. Whether you have just taken delivery of your new hovercraft or you require refresher training courses, we will have a course for you. Our training is flexible, customer focussed and designed to enable clients to get the very best from their hovercraft.



Servicing & Maintenance

Like all vehicles, hovercraft require regular servicing and maintenance. Our support model is built around enabling our customers and our local product support partners to maintain the craft. Our UK team of support engineers are set up to provide training, engineering advice and management support. We offer a complete maintenance service package as well as a full refit service.

Consultancy

Griffon Hoverwork offers a consultancy service on all aspects of hovercraft operation. Our expertise spans route analysis, business planning, terminal design, crew development, engineer training and a broad range of after sales services. We can consult on all aspects of design and research into hover technology, this is demonstrated by our recent contracts with international companies to research new hovercraft designs for cold climates.

TECHNOLOGY

At Griffon Hoverwork we are dedicated to developing new technologies and improved manufacturing techniques.

Meeting High Standards

Our hovercraft meet exacting engineering standards and are regularly classified to Lloyds Registry standards, amongst other classification societies. Our processes and quality management system is certified to ISO 9001:2000; we are continually developing our approach to provide products with even higher standards of robustness, reliability and performance.

Innovation, Research & Development

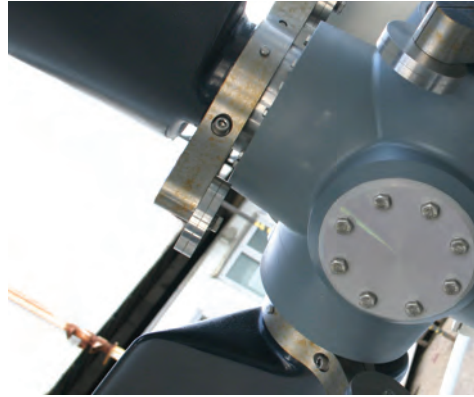
Our innovation is informed by customer feedback and through our engineering change process. Use of advanced electronic systems, enhanced cushion efficiency, improved transmission systems and faster build marine structures are now being fed into our new product development programme. At the heart of this is a desire to develop products that our customers need.

Performance

We take great pride in meeting and exceeding the performance criteria that are agreed with our customers at the outset of a project. We know the performance criteria we specify can be achieved and can prove this both theoretically and from real life application, proven over tens of thousands of operating hours.

Hover Solutions

At Griffon Hoverwork we design and build bespoke air cushion solutions, tailored to address our customer's specific needs. We can provide alternatives for those wishing to transport heavier loads and listen to the needs of our customers to ensure we can offer a range of services to meet any requirement.



Small Craft and Medium Lift Range



Griffon 380TD

The Griffon 380TD is capable of carrying 5 people or a payload of 380kgs (837lbs). It is remarkably easy to operate, largely due to the ability to control lift and thrust independently, unlike most other small craft.



The 380TD is a simple vehicle which has no side slip control (bow thrusters or skirt shift), an open loop skirt, inflatable cylindrical side bodies to provide buoyancy and reduce under hull pressure and an effective work surface from which to access items in the water.

Manufactured from a combination of aluminium and composite (FRP) materials, the 380TD is ideally suited to inshore transportation in areas such as mud flats, swamps, ice and in the event of flooding. With the optional hover-on hover-off road trailer, one person can quickly and easily transport and operate this unique vessel virtually anywhere and provide emergency response over wider terrains.

Specification

Length (m) Hovering	6.8
Beam (m) Hovering	3.76
Height (m) Hovering	2.65
Minimum Crew	1
Passengers (No Statutory Compliance)	4
Passengers (Statutory Compliant)	4
Max payload (tonnes)	0.38
Standard Endurance (hours at most economical speed)	4
Speed at full payload	28
Engine Type	1 x VW/ 1 x B&S
Power per engine (hp)	84/32
Obstacle clearance	0.36
Max significant wave height	0.3
Hull material	marine grade aluminium



Griffon 2000TD

The 2000TD is the longest running model in the Griffon Hoverwork range. Continuous development over more than 20 years has resulted in the most proven, versatile, single-engined fully amphibious hovercraft, offering a payload of up to 2000kg or up to 16 passengers.



A turbo-charged diesel engine, variable pitch propeller and advanced skirt design, delivers a fast, safe performance over a wide variety of terrains and conditions.

The marine grade aluminium hull and advanced composite mouldings guarantee strength, reliability and longevity. The cabin design is fully configurable for seating and cargo, allowing the craft to fulfil a wide variety of roles. Detachable side decks enable the craft to be reduced in width for transportation by road, in a standard 40ft shipping container, on a flat bed truck or in a C130 transport aircraft.

Specification

Length (m) Hovering	12.7
Beam (m) Hovering	6.2
Height (m) Hovering	4.1
Minimum Crew	2
Passengers (No Statutory Compliance)	16
Passengers (Statutory Compliant)	8-15
Max payload (tonnes)	2.2
Standard Endurance (hours at most economical speed)	7
Speed at full payload	34
Engine Type	1 x Deutz
Power per engine (hp)	440
Obstacle clearance	0.73
Max significant wave height	0.6
Hull material	marine grade aluminium



Griffon 2400TD

The Griffon 2400TD is a fast, versatile and robust single-engine amphibious hovercraft, capable of carrying loads of up to 2400kg. The 2400TD Hovercraft was designed and built for the British Royal Marines, replacing their fleet of 2000TD Hovercraft.



The cabin design is fully configurable for seating, cargo and armaments. A choice of cabin superstructure allows the craft to fulfil a wide variety of roles, making it ideal for military operations, rescue and commercial applications.

The electronically-injected diesel engine, delivers a fast, safe performance over a wide variety of terrains and conditions. The marine grade aluminium hull and advanced composite mouldings guarantee strength, reliability and longevity.

Specification

Length (m) Hovering	13.4
Beam (m) Hovering	6.8
Height (m) Hovering	4.3
Minimum Crew	2
Passengers (No Statutory Compliance)	20
Passengers (Statutory Compliant)	10-18
Max payload (tonnes)	2.4
Standard Endurance (hours at most economical speed)	7
Speed at full payload	35
Engine Type	1 x Deutz
Power per engine (hp)	585
Obstacle clearance	0.8
Max significant wave height	0.7
Hull material	marine grade aluminium



Griffon 8000TD

The Griffon 8000TD is a well proven design and is the most popular medium lift hovercraft. Capable of speeds in excess of 50 knots (58 mph or 93 kph) This craft cruises at a speed of 40+ knots with a full payload in zero wind, zero wave ('o/o') conditions.



The 8000TD and its military version, the 8000TD (M), is powered by two water-cooled diesel engines, with an excellent power to weight ratio for a diesel engine. With its two 596Kw (800hp) engines, it offers more power to military operators. Depending upon configuration, the 8000TD carries a 8-10 tonnes payload.

In its troop carrying role, this high speed amphibious craft can carry 56 passengers in air line-type seats plus equipment. The 8000TD can also be equipped with a bow ramp and carry small conventional or tracked vehicles, or a combination of people and cargo/freight. It is also used in an aircraft crash rescue role and can be equipped with fire fighting and medical aid capabilities.

Specification

Length (m) Hovering	21.3
Beam (m) Hovering	11
Height (m) Hovering	5.52
Minimum Crew	2
Passengers (No Statutory Compliance)	56
Passengers (Statutory Compliant)	42
Max payload (tonnes)	8
Standard Endurance (hours at most economical speed)	10
Speed at full payload	40
Engine Type	2 x IVECO
Power per engine (hp)	840
Obstacle clearance	1.25
Max significant wave height	1.1
Hull material	marine grade aluminium

Medium Lift and BHT Range



Griffon 8100TD

Capable of travelling at high speeds over a variety of surfaces, the 8100TD is favoured by military, paramilitary and naval forces as a logistic or amphibious operational support craft. It can also be configured for passenger ferry services.



At 22.5m by 11m the Griffon 8100TD is a fully amphibious hovercraft capable of carrying up to a maximum of 75 passengers plus two crew. This craft can accommodate a light armoured vehicle or a 20 foot ISO container as part of its 12 tonne payload.

Its unique design permits many possible superstructure options with the same standard hull and machinery installation. The craft is powered by two water-cooled Iveco diesel engines and has a hull constructed of marine grade aluminium.

The craft has demountable side decks, of aluminium alloy construction, which enable it to be reduced in width for transportation by sea if required.

Specification

Length (m) Hovering	22.5
Beam (m) Hovering	11
Height (m) Hovering	5.86
Minimum Crew	2
Passengers (No Statutory Compliance)	75
Passengers (Statutory Compliant)	56
Max payload (tonnes)	10
Standard Endurance (hours at most economical speed)	10
Speed at full payload	40
Engine Type	2 x IVECO
Power per engine (hp)	1000
Obstacle clearance	1.25
Max significant wave height	1.1
Hull material	marine grade aluminium



BHT Well Deck Configuration

The BHT series craft are highly versatile air cushioned vehicles (ACV) able to work in a wide variety of operational roles. They operate in inshore waters with sea states having significant wave heights of up to 2 metres.



Designed to handle a high level of usage on daily scheduled operations, the British Hovercraft Technology (BHT) range of craft carry passengers and cargo with a combined weight of up to 22.5 tonnes. The structural design is highly robust with an aluminium transverse rib construction similar to that used in aircraft wings. Side decks are fixed and can be fitted with added cargo carrying pods.

The craft are powered by 4 engines, 2 providing lift and 2 providing thrust, offering both high levels of power and some redundancy in the event of an emergency. They are fitted with bow thrusters to provide control in yaw, which is considered highly beneficial when manoeuvring a large craft in tight spaces.

Specification

Length (m) Hovering	30.8 - 32.3
Beam (m) Hovering	15
Height (m) Hovering	11.2
Minimum Crew	2
Passengers (No Statutory Compliance)	47
Passengers (Statutory Compliant)	47
Max payload (tonnes)	18-21
Standard Endurance (hours at most economical speed)	6
Speed at full payload	45
Engine Type	4 x MTU
Power per engine (hp)	1200
Obstacle clearance	1.8
Max significant wave height	2
Hull material	marine grade aluminium



Troop Carrying Configuration

The British Hovercraft Technology (BHT) range of passenger craft is designed to handle a high level of usage on daily scheduled operations and can be configured to carry 130-180 passengers.



Comfortably able to operate in sea state 4, the BHT series offer an unrivalled passenger and cargo carrying capability. Many variants are available which can be configured to meet a wide variety of roles. These versatile craft can be fitted with galley, air conditioning, numerous seating and luggage layouts and styles, entertainment systems, wash rooms, loading ramps for passengers or vehicles, crane, and fire fighting apparatus.

The structural design is highly robust with an aluminium transverse rib construction similar to that used in aircraft wings. Side decks are fixed and can be fitted with added cargo carrying pods.

Specification

Length (m) Hovering	29.3-33.7
Beam (m) Hovering	15
Height (m) Hovering	10.7
Minimum Crew	2
Passengers (No Statutory Compliance)	130-180
Passengers (Statutory Compliant)	130-180
Max payload (tonnes)	18-21
Standard Endurance (hours at most economical speed)	6
Speed at full payload	45
Engine Type	4 x MTU
Power per engine (hp)	1200
Obstacle clearance	1.8
Max significant wave height	2
Hull material	marine grade aluminium

Griffon Hoverwork Brokerage Service

Our brokerage service was launched with the aim to develop the services we offer our customers.

The Griffon Hoverwork brokerage service offers a selection of used craft for sale from around the world, and can be viewed on our website:

Visit: www.GriffonHoverwork.com





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