

THE GATOR™ HOVERCRAFT

About

Neoteric is the original light hovercraft manufacturer and THE GATOR™ is the culmination of Neoteric's 40 years of experience in light hovercraft design, development and engineering. Its design embodies all of the advantages and advances Neoteric has innovated-side-by-side seating, fully enclosed cabin, highly developed reverse thrust for braking and maneuverability, more cockpit room, increased thrust and low weight. Great efforts have been taken to ensure the Gator's aesthetically appealing military looking profile and camouflage design. Engineered to satisfy expectations and to give long life and value, The Gator™ is the industry standard for Rescue and Military light hovercraft. This hovercraft is the only vehicle able to perform fast, safe operations on swift water, thin or broken ice, snow, mud, swampland, and flood waters. Because it safely hovers 9 inches above the terrain, a hovercraft keeps military personnel above the danger - not in it - and allows them access to areas that helicopters or boats cannot reach.

Patent

Neoteric's innovative reverse thrust system, patented worldwide, makes the Neoteric Hovercraft (Incl. THE GATOR™) the only hovercraft in the world with effective brakes and the unique ability to brake, hover in place, and back up at more than 25 mph. Neoteric hovercraft are also the lightest and quietest production hovercraft in the industry.

Key Feature

THE GATOR™ is a custom-build lightweight, rugged, all-terrain hovercraft designed specifically to meet military standard. Powered by the heavily-modified GATOR™ engine to provide extra durability, weight-saving, lift and speed and reliability. Improved internal combustion system for efficiency and increased performance.

THE GATOR™ model is also custom-build with advanced parts and materials such as:

Carbon Fiber Reverse Thrust Buckets

Carbon Fiber Thrust Duct

Carbon Fiber Hull Skids

Carbon Fiber Tower or Cabin (Optional)

Hypalon Skirts

These light-saving parts and materials not only makes the hovercraft lighter and more efficient, but also will benefits in increased strength and yet improving performance, aerodynamics, durability and safety.

Included in THE GATOR™ Model:

GPS: GPS runs off its battery supply and also the hovercraft powersupply. Stores 72 waypoints and 20 routes

Radar Tower: Radar and Light Tower (CF) Bridge Assembly

Work Lamp

Spare Parts and Hardware Kit

Paddle: Paddle/Boat Hook Assembly

Ratchet: 1 inch Ratchet Tie Down Nylon strap that locks swing-arms in place

Trailer: Winch-On Roll-Off Light Weight Single Axle Trailer

Features

1. EXCELLENCE IN HOVERCRAFT TECHNOLOGY

Neoteric has a level of experience and professionalism superior to any other light hovercraft manufacturer. When the U. S. Coast Guard surveyed marine craft manufacturers, they discovered that most of them had no engineers at all, while Neoteric has been founded by a team of Engineers. This is why they consistently produce hovercraft that are innovative and a standard in the industry.

2. UNSURPASSABILITY IN PERFORMANCE

- a. NEOTERIC PATENTED REVERSE THRUST SYSTEM
- b. LOWEST THRUST LINE
- c. DUAL DIRECTION RUDDERS
- d. LOWEST PROFILE AND CENTER OF MASS
- e. HAND-LAID FIBERGLASS COMPOSITE CONSTRUCTION
- f. BROAD BAND EXHAUST
- g. LIGHTEST WEIGHT
- h. SUPERIOR STEERING SYSTEM
- i. OMNIDIRECTIONAL SKIDS
- j. LEVEL FLIGHT

3. CONVENIENCE AND COMFORT

- a. CONTROLLED CRUISING THROTTLE
- b. UP-FRONT, REMOTE ENGINE CHOKING
- c. FULL ANALOG INSTRUMENTATION
- d. POLYCARBONATE WINDSHIELD
- e. LOWEST NOISE LEVEL
- f. LARGEST INNER HULL DRAIN
- g. EASIEST SKIRT ATTACHMENT

4. OPTIMAL SAFETY FEATURES

- a. ANTIPLOW/ANTIDIVE
- b. HOVERING AND FLOATING STABILITY
- c. FULLY ENCLOSED ENGINE MODULE
- d. SKIRT PROTECTION SYSTEM

5. UNIQUE TRAILERING SYSTEM

- a. ONE PERSON STATIC LOADING AND UNLOADING SYSTEM
- b. UNDERHULL INSPECTION ABILITY
- c. LIGHTWEIGHT CONSTRUCTION
- d. SPARE INCLUDED
- e. PATENTED SWING ARMS



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Performance

Payload	: 6 persons, 900 lb (408 kg) average. 1025 lb (466 kg) max.
Forward Speed	: 35 mph (56 km/hr) maximum recommended cruise. 30-45 mph (48 to 72 km/hr) mudflat, beach. 45 mph (72 km/hr) calm water. 30-40 mph (48 to 64 km/hr) land, short grass. 40-50 mph (64-80 km/hr) smooth ice. 30-45 mph (48-72 km/hr) firm snow.
Reverse Speed	: 25 mph (40 km/hr) calm water.
Hump	: 10 sec, to reach 5 mph (9.7 km/hr) over calm water, with 1025 lb (466 kg) payload.
Fuel Consumption	: 5 US gal/hr (20 l/hr) at cruising power.
Range-Endurance	: 91 miles (146 km) at cruising speed, 2.6 hr.
Static Thrust	: 200 lbs (90 kg)

Physical

Length	: 15 ft 8 in (4775 mm) on cushion, 14 ft (4267mm) off cushion.
Width	: 8 ft 4 in (2540 mm) on cushion, 6 ft 8 in (2032 mm) off cushion.
Height	: 4 ft 6 in (1372 mm) on cushion, 3 ft 9 in (1143 mm) off cushion. With cabin, 5 ft 3 in (1600 mm) on cushion, 4 ft 6 in (1372 mm) off cushion.
Cockpit	: Length 9 ft (2743 mm), Width 4 ft 2 in (1270 mm), Depth 1 ft 5 in (438 mm)
Hover Height	: 9 in (228 mm) hard structure clearance at full power.
Weight	: 640 lbs +/- 15 lbs (290 kg +/- 7 kg) Standard configuration. 780 lb +/- 15 lb (353 kg +/- 7 kg) With all options.
Noise	: 87dB(A), SAE Standard J192a.
Fuel Capacity-Type	: 13 US gal (52 l) single Aluminum tank. Premium unleaded gasoline, mix 40:1 gas/2 cycle oil.

Limiting Conditions

Wind	: 25 mph (39 km/hr) over hard surfaces, Beaufort force 5.
Sea State	: Waves 2 ft (610 mm) chop, otherwise WMO Code 3.
Temperature	: -30° F to +110° F (-34° C +43° C).
Slope-Gradient	: 1 in 7 (15%), standing start, smooth surface, 700 lb (181 kg) payload.
Surface Type	: Useful for transportation on salt or fresh water of any depth, sand, mud, short grass, swamp, flat desert, ice, and snow.

Systems

Control	: - Handlebar connected to stainless steel push-pull cable for 4 blade cascade rudder control. - Twist grip throttle with screw adjustable-tension cruise settings. - Hand lever operated, electronic fly-by-wire reverse thrust system - advantageous for operation over ice, horizontal buckets generate 60% reverse thrust for static hovering, braking, backing up or differential thrust for steering enhancement and speed control down wind. - Reverse Thrust Buckets manufactured from Fiberglass and Reinforced with Carbon Fiber Inlays for extra stiffness. - Trim by Pilot operator movement (for in-line seat configuration) or by front seat movement (bench seat configuration side-by-side or back and forth) - Controls move from side to side for lateral trim.
Flotation	: US Coast Guard approved Urethane foam positive flotation 135% of unladen weight plus additional passenger compartment displacement buoyancy, 78% of unladen weight.
Bilge	: Rear mounted 4 in (102 mm) diameter plastic screw "in-out" drain plug. Electric bilge pump, remotely operated by pilot, 100 gal (400 L) per hour capacity.
Electrical	: Engine driven AC alternator, Special Heavy duty voltage regulator and rectifier 13V DC, 250 watts at 4000 rpm. Battery 235 AMP at zero degree F.

Cooling	: Engine is liquid cooled by engine mounted liquid pump and twin, exceedingly large capacity, radiators. Pressure regulated system. Coolant Anti-freeze mix 50:50.
Heating	: Hot water heating system is optional for cabin configuration and cold weather operations.
Navigation	: Bow and adjustable white stern light, optional search light plug, headlights, instrument panel lights, optional GPS and US Coast Guard Certified Yellow Special Strobe light, exclusively for Hovercraft use only. LED, Low Power consumption, Powerful Dual Head Lights.
Fuel	: 13 gal (52 L) US Coast Guard Certified Aluminum fuel tank with in-line replaceable type fuel filter, roll-over valve, filtered breather and Gas (fuel) gauge level sender.
Thrust	: One, 28 in (711 mm) diameter, 12-blade WingFan, 5Z. PAG, 45°, axial fan, at 3180 rpm 100 hp. Stator system, 10 blades, Carbon Fiber Inlays.
Suspension	: - One third of total air supplied by integrated system is diverted to the lift air cushion, which is contained by an extended segmented (finger) skirt. - Skirt material is a special 8 oz/sq.yd. (267 gm/sqm) 400 denier Polyamide, Hyperlon black low friction and low wear rate fabric. - Average cushion pressure is 18 lb/sq ft (0.86 kPa)
Landing	: Two heavy duty, Fiberglass Carbon Fiber Inlays polyester coated, parallel skids run full length of hull.
Power	: - Model "Gator" 939 cc, 100 hp (74 kw) @ 6500 rpm, Carbureted, 2-cycle 3-cylinder, liquid cooled, electric start, all aluminum, weight 108 lbs (49 kg) Aircraft engine. - Maximum Exhaust Gas Temperature 1300° F (704° C). - Liquid cooling system temp 175 deg F (60 deg C) Max. Transmission 32-tooth and 64-tooth PolyChain sprockets on engine and fan shaft, joined by 8MGT-720-62 HTD Carbon belt. - Fan shaft bearings - two 1-1/4 in (31.38 mm) bore pillow block US Sealmaster TB-20RC. - Large capacity Air Intake Filter system with salt water resistant electrical Neoprene Splash bag.
Safety	: 2 lb (0.9 kg), dry powder fire extinguisher, ample positive flotation and stability, lanyard kill switch, non-slip floor, normal survival gear, all circuits are fused. Craft is fitted with a Marine Horn.
Air Filtration	: Triple, large capacity, replaceable and reusable filters with splash guard.
Instrumentation	: Marine key ignition switch, fuel, tachometer, cylinder water temperature and exhaust gas temperature, hour-meter gauge and volt meter.
Radar/ Light Tower	: Composite Carbon Fiber Inlays and Foam Light weight, Strong, Radar and Light Tower for remote spot light, radar, radio antenna.

Construction

Construction	: - Composite urethane foam and hand-laid fiberglass hull with Carbon Fiber Inlays landing skids. - Carbon Fiber Inlays in all Hull potential ground contact points. Gelcoat and hand-laid fiberglass body with Carbon fiber Inlays side-panels. - Engine Machinery Module Intake Bell is Carbon reinforced for stiffness and long-life. Easily repairable.
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Accommodations

Accommodations	: - Upholstered in-line seating for 6, with capacity for large persons. - Optional 2 plus 2 plus 2, side-by-side, bench seating, with front seat and controls movable side-by-side, and fore & aft for trim and access. - Windshield and optional full cabin enclosure for cold and warm weather operations, cabin doors are 64 1/2 in wide (1638 mm) and 26 in high (660 mm). - Can run with doors removed or held open.
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