UGV PLATFORM

AMPHIBIOUS EXTREMELY HIGH PASSIBILITY UNMANNED GROUND VEHICLE

ABOUT

Durability and reliability

Unique **patented pneumatic circulation suspension** ensures smooth and even movement of the all-terrain platform, as well as **ultra-low pressure tires** allow you to overcome any terrains and obstacles.

Autonomy and easy maintenance

User-friendly control panel, **quick-change lithium batteries save** you time so you can focus on the tasks accomlishment.

Multipurpose use

The versatility of the platform, unique off-road and **amphibious capabilities** allow to perform tasks on any type of surface.

KEY FEATURES

Flexibility and versatility

The design of the platform **allows to install additional add-ons**, that opens up possibilities of using UGV in a wide range of applications and tasks.

Passability and maneuverability

Many years of experience and unique technologies end up in becoming top-of-the-range for passability in any weather conditions. A **360° on-the-spot turn**, low pressure tires and patented pneumatic circulation suspension allow to carry out tasks in the most extreme situations.

MOBILITY

UGV platform **guarantees the best passability** on the most difficult surfaces, where standard equipment simply cannot cope with obstacles!

Ground

grass, forests, sand, peat, moor, marsh, beach, dunes, rocks, scree, gravel, snow, ice, climbing from waters onto the ice etc.

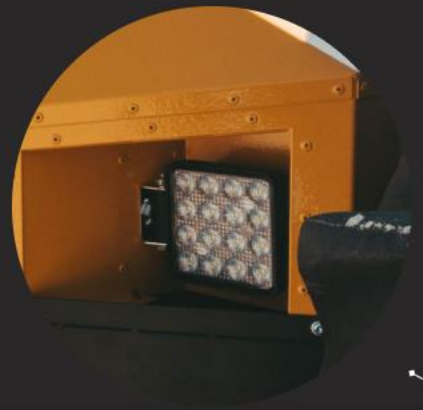
Water

ponds, lakes, rivers, sandbanks, shores, coasts, frozen waters etc.

REMOTE CONTROL

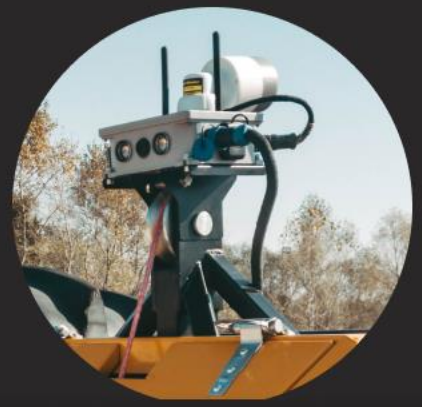
- Platform guidance in all directions
- Inflating and deflating wheels
- Dump module's control
- Video monitoring while driving (incl. recording functions and night mode)
- Incline level display (inclinometer)
- Tracking the platform using GPS and displaying it on the map

DETAILS



Front LED lights

Platform Power & Lighting Launch Bar



Camera and GPS module
AND

Charger connector

Platform power
emergency stop button

Battery compartment for access
to quick-release batteries

DETAILS

Access to radiator fan and replaceable mesh filters

Dump module

TECHNICAL CHARACTERISTICS

UGV

Overall dimentions	3810 x 2500 x 1987 mm
Dry weight (without add-ons)	1 700 kg
Service temperatures	-40°C +45°C
Clearance	600 mm
Tires size	1800 x 580 x 635 mm
Loading capacity	up to 1200 kg
Max.speed	up to 10 km/h
Gradeability	40°C
Tires inflation time 0% to 100%	up to 22 sec
Engine power	40 kW (54.3 h.p.)

Number of batteries (a set)	2 pc.
Baterries set autonomy	up to 4 hours
Weight of 1 battery	60 kg
Time to replace 2 batteries by 1 person	5 min
Charging time 0% to 100%	up to 5 hours
Control radius (base)	up to 10 km
Follow me	Under development
Additional equipment	**Dump module**
Dump module weight	300 kg
Dump module size	2879,5 x 1147 mm

MULTI-PURPOSE USE

Firefighting

Extinguishing fires

The unmanned system is mainly designed to extinguish fires after landscape or forest fires.

Fire hose laying

One of the most time consuming tasks is laying fire hoses for access to urban or rural areas that are inaccessible for fire machines or too dangerous for firefighters to enter.

MULTI-PURPOSE USE

Search & rescue

Rescue and transportation

The platform allows the installation of the necessary equipment to carry out search&rescue missions in the most difficult and extreme conditions.

- Cargo transportation
- Victims evacuation
- Investigation of the area

MULTI-PURPOSE USE

Logistics

Cargo transportation

Perfect logistic tool for equipment and materials transportation inside various infrastructures:

- Transportation in mines
- Transportation of radioactive elements
- Unmanned cargo delivery

MULTI-PURPOSE USE

Forestry

Sowers and brush cutters

The platform is ideal for solving tasks in forestry and agriculture. Adaptability and versatility allow the installation of various add-ons to track large areas of land and automate a large number of processes.

- Sowers with data transmission system
- Brush cutters using an object location database

MULTI-PURPOSE USE

UAV support and launch

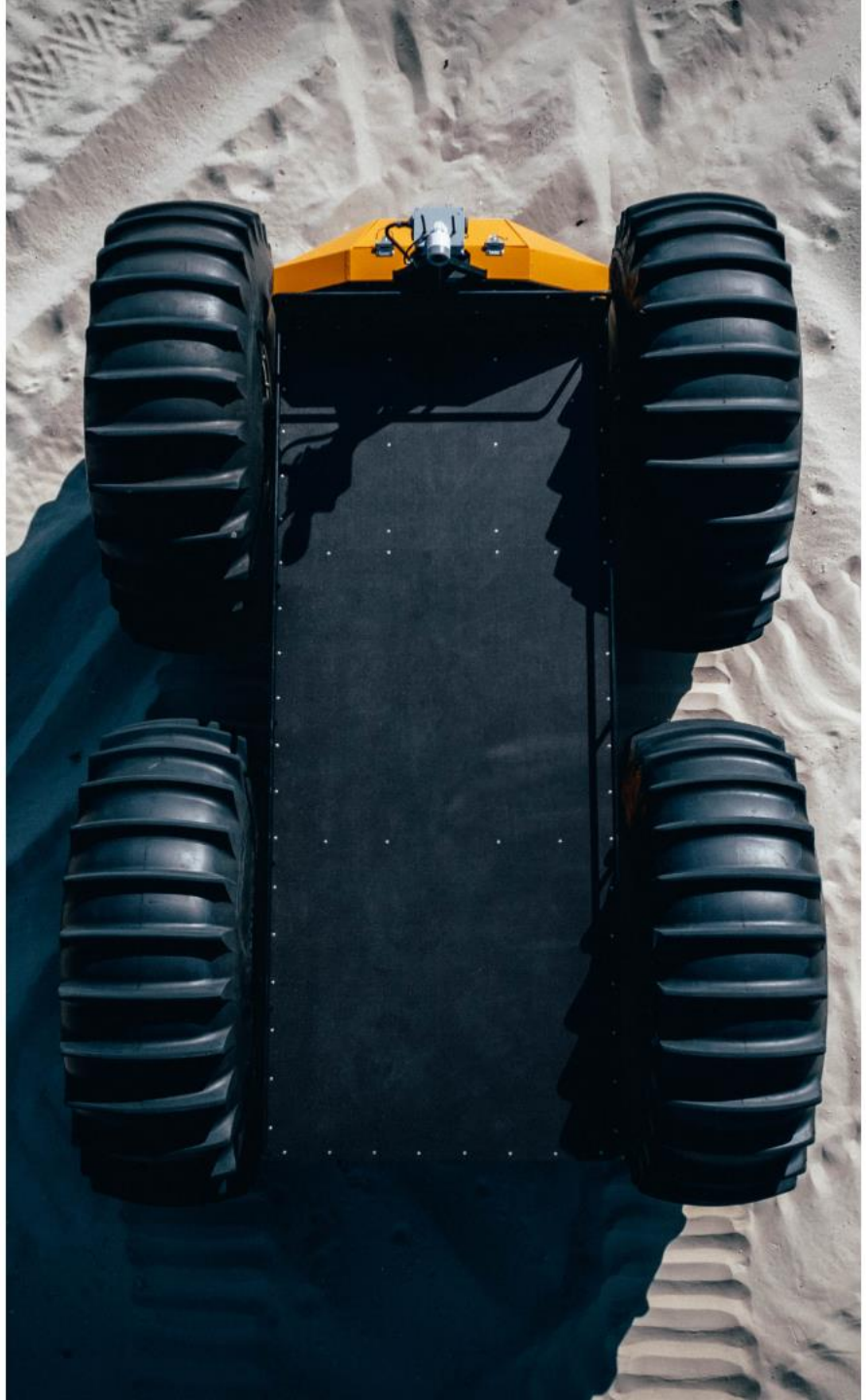
Support and cooperation with flying machines

The SHERP UGV platform can serve as a mobile base for aerial devices of various sizes. Takeoff, landing, wireless charging, blocking third-party signals in places where human participation can be dangerous.

Border surveillance

Patrolling and perimeter tracking

Additional add-ons as 3D Lidar's allow to scan the terrain and control the territory of the border of any objects.



MULTI-PURPOSE USE

Military

Attack and defense, support and rescue

Amphibious all-terrain capabilities give a great advantage when using the platform:

- Mobile protection system against unauthorized UAVs
- Mobile intelligence system
- Mine clearance and explosives removal system
- An auxiliary tool for equipment and weapons transportation
- Evacuation of victims and transportation of mobile groups


SHERP