



# SHERP



**SHERP – where there are no roads!**

Durable and reliable machines for operation in the most difficult natural conditions. Ideal for oilmen, geologists, rescuers, hunters, fishermen, travelers, adventurers, and supporters of extreme sports.

[WWW.SHERP.CA](http://WWW.SHERP.CA)



## BRIEF HISTORY OF DEVELOPMENT

In 2012, the SHERP all-terrain vehicle went to the test site for the first time. The technical characteristics of the machine impressed everyone, but numerous improvements were performed over the next few years. As a result, by the efforts of our developers, engineers, and designers — the SHERP all-terrain vehicle became a unique phenomenon. It has no analogues. Nothing is impossible with the Sherp.

Today, the advanced SHERP is mass produced to meet the evergrowing demand of customers from all over the world.





## SHERP CAPACITY

- Crosses **any type of terrain**, water, sand, ice, snow, swamps, fallen trees, and blockfields;
- climbs a step of **1 meter high**;
- climbs a slope of **35 degrees**;
- gets **out of the water onto the ice**;
- moves at a speed of up to **40 km/h**.



# SHERP

## ADVANTAGES



**Sherp is capable to overcome any type of terrains:**  
swamps, deep snow, sand, ice, and water.

Each SHERP tire has a volume of about 800 liters. The total volume of the wheels gives a displacement of more than 3,200 kg. This allows the Sherp to move along the water, and the hermetic body prevents water from entering the compartment.

Therefore, the SHERP remains afloat even with zero tire pressure or without all 4 wheels.



### 1. Pneumocirculation Suspension

**Pneumocirculation suspension** is a unique patented development. It provides smooth and glide motion of the Sherp for all types of terrains.

The design of this suspension is not equipped with springs, shock absorbers, racks, and other traditional elements. Less parts — more reliability, less breakdowns, and lower repair costs.

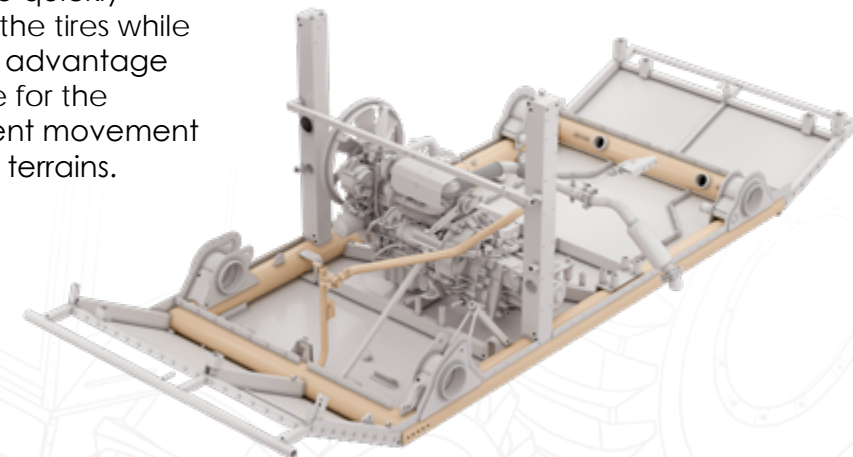


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### 2. Pumping and Tie Controlled Pressure

The design features of the pneumocirculation suspension makes it possible to quickly pump the wheels. It takes **less than 30 seconds** to set the working pressure in tires!

This feature allows you to quickly change the pressure of the tires while moving. It gives you the advantage of choosing the pressure for the optimal and most efficient movement across different types of terrains.



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### 3. Tubeless Extra-low Pressure Tires

The SHERP all-terrain vehicle tires also have a patent: they are tubeless, and ultralow pressure. They are ideal for overcoming obstacles of any complexity.

The reliability of tires is based on the use of high-quality materials (rubber of special composition and cord) and modern production technologies.

They remain light and elastic, impressing with durability and strength. They have an excellent level of adhesion, and are able to develop a speed of up to 6 km/h on the water.

Self-inflated by the exhaust. Inflated and deflated **within 30 seconds.**



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### 4. Fuel Efficiency

On average, the SHERP spends from 2 to 3 liters of diesel fuel per hour. Consumption depends on the type of terrain.

2-3L/H



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### 5. Light Weight

The SHERP was built as a light weight machine. This factor provides additional cross-country ability of the machine and ease of transportation.



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### 6. Independence

**Canisters of 58 liters (each)** are built in the wheels of the SHERP. Filling them up on all four wheels makes it possible to increase the total fuel reserve by **232 liters**. Therefore, the internal space of the Sherp remains empty and can be used to store provisions, tools, equipment, etc.



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### 7. Design, Based on Simplicity and Reliability

The design of the Sherp was developed in such a way that its repair could be carried out anywhere by a minimal amount of tools and without deep specialized knowledge. Suspension and transmission without many traditional elements demonstrate the highest reliability.

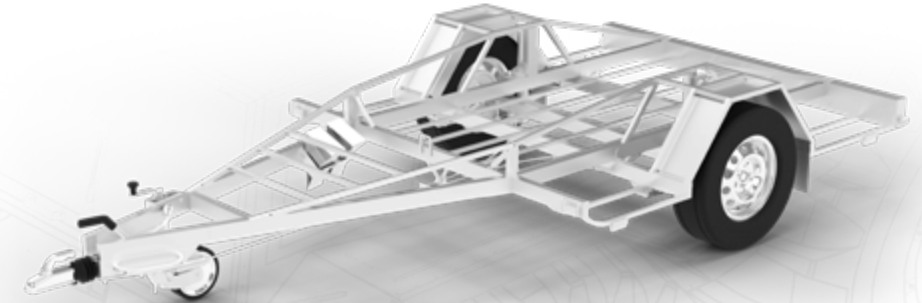
Only the minimum of required electrical appliances is used. In this case, the engine itself is able to operate without electrical equipment functionality.



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### 8. Compactness

Small dimensions make the Sherp convenient for movement in a limited area. The SHERP transport on roads is carried out on a trailer, which was designed specifically for this machine. Due to the unique design, the SHERP all-terrain vehicle rides onto the trailer platform and self-locks in **just 15 seconds**.

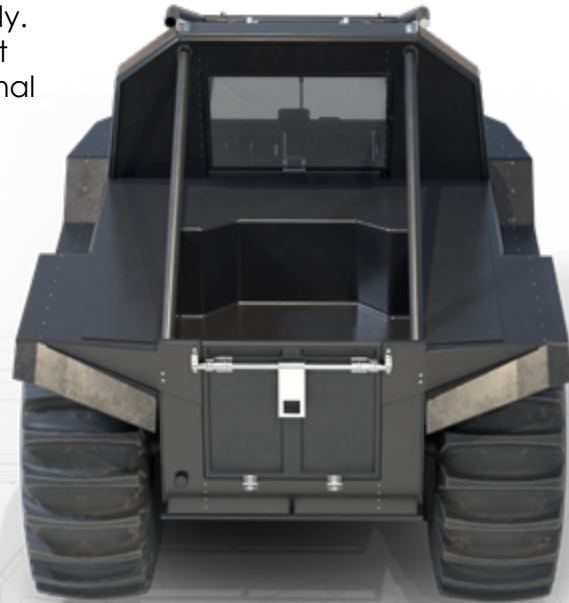


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### 9. One-box Body

The cabin of the Sherp is a one-box body. It provides an increased level of comfort and reliably protects people from external factors.



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### 10. Japanese Engine

**Kubota** is an engine manufactured in Japan; it has proven its reliability and durability. There is no electronics in it, which means that it is ready to work in inhospitable conditions of the most difficult climatic zones.

**Kubota®**



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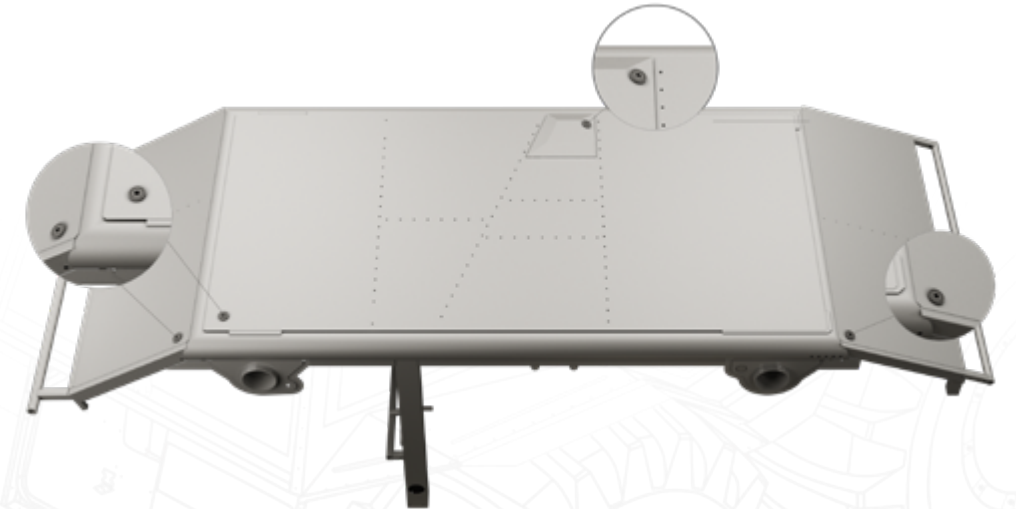
### 11. Simplified Repairs

If necessary, maintenance or repair of the SHERP all-terrain vehicle can be carried out directly from the compartment. All kinds of work can be done at any time and in any place — without relying on the natural conditions.



### 12. Fast Water Drain from Body

Even if water gets into the body, a solution is provided for its fast drain. It is enough to open the kingstones — and the water instantly pours out.

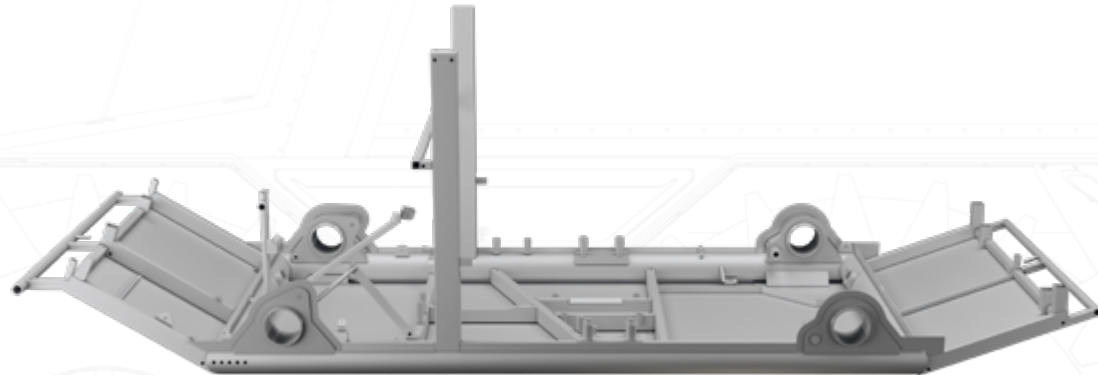




### 13. Load Frame

The design of the Sherp is based on the load frame, which provides additional reliability.

The load frame is hot-dip galvanized, that protects the metal against corrosion and extends the lifespan.



### 14. Flat Underside

The underside is smooth. There are no elements on it that could cling to obstacles and reduce the move. Due to this, the cross-country ability and speed of the SHERP movement is increased.



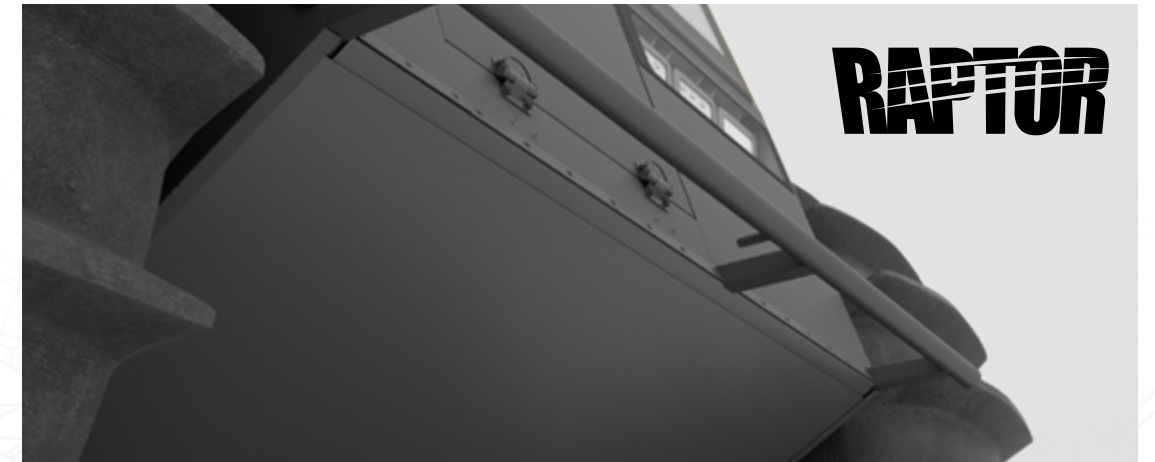
### 15. Underside Made of Docol Steel

Docol steel is used for the production of the underside. The yield strength of such steel reaches **1,000 MPa**, and the zinc coating provides a long service life.



### 16. Polyurethane Coating of Racks and Underside

The polyurethane coating "Raptor" is distinguished by its highest strength. It is used for painting racks and underside, protecting them from corrosion and minor mechanical damage.





### 17. Compartment Heating

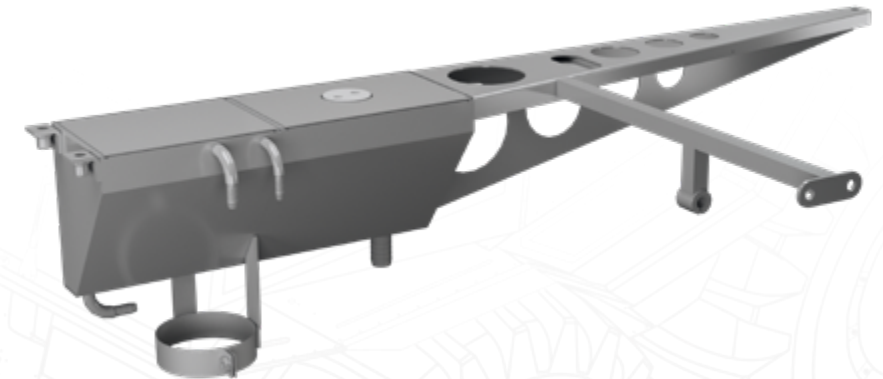
The compartment is heated by **Webasto AirTop 2000 STC heater**. Using this heater allows the engine to be started even at critically low air temperatures.



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### 18. The Ability to Move Even When Heeled

An additional fuel tank of a small volume is built into the design of the fuel system of the SHERP all-terrain vehicle to exclude the effect of “fuel hunger” during a prolonged move, when heeled, or with a trim difference. It is located above the engine level, and, due to this, the fuel will always flow into the engine.



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### 19. Climbing Slope of 35 Degrees

The SHERP easily overcomes the majority of uneven terrains, including slopes with an angle up to **35 degrees**. This indicates an excellent proof of its readiness for the most difficult challenges.



### 20. Skid Steering

It has the ability to turn almost in its own length. Such maneuverability is extremely important in the wilderness, where centimeters can mean everything.







### 19. 4 Full Berths + Additional Storage Place

A rollaway boarding allows you to increase the number of full berths up to four. The process of preparing berths is simple and takes only a few seconds.

The benches in the cabin are made of high-quality wear-resistant material. They are removable, so they can also be used as an additional storage space.



### 22. Bilge Under Bottom Ceilings

The bilge has a volume of **170 liters**. It is used as an additional storage place for provisions, equipment, or fuel.



### 23. Excellent Controllability, Smart Ergonomic Solutions

Driving the SHERP does not cause complications. It does not take long to learn how to operate Sherp: not a long time and only a couple kilometers of practice. Smart ergonomic solutions make it convenient to use for any purpose.



### 24. Rear View Camera

The camera allows the driver to fully control the situation behind the Sherp. It is indispensable in the wilderness and when reversing.



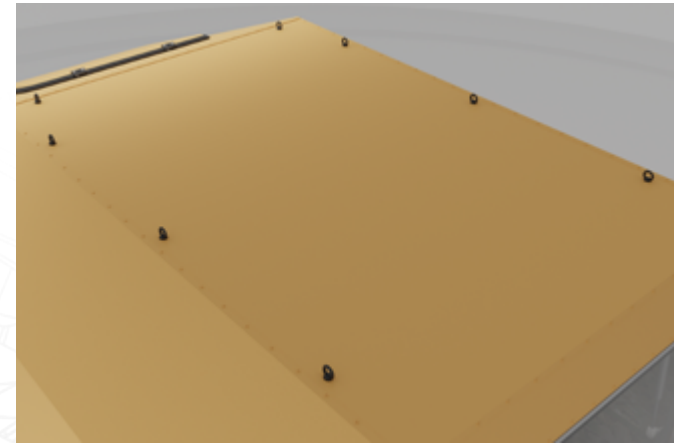
### 25. Aluminium Body

The developers paid special attention to the selection of body material to prepare the SHERP for long and difficult work. The use of aluminum made it possible to make the body of the all-terrain vehicle resistant to corrosion, durable, and light.



### 26. Roof Load Securement System

The external load securement system is provided on the roof of the body. Due to this, you can take more useful luggage or release the compartment.





### 27. Excellent View

Side windows of a large size and a sunroof are provided in the body. They ensure a comfortable visibility and minimize risks while driving.



### 28. Casing of Thermal and Noise Insulating Materials

The **CORDURA** fabric — extremely strong and durable — is used as a casing for the interior of the Sherp. The casing is equipped with the **MOLLE** system for easy attachment of equipment.



**CORDURA**



**MOLLE**

### 29. Galvanized Wheel Disks

Wheel disks of the Sherp are hot dip galvanized. This gave them the highest corrosion resistance and durability.



### 30. Reinforced Half Axles

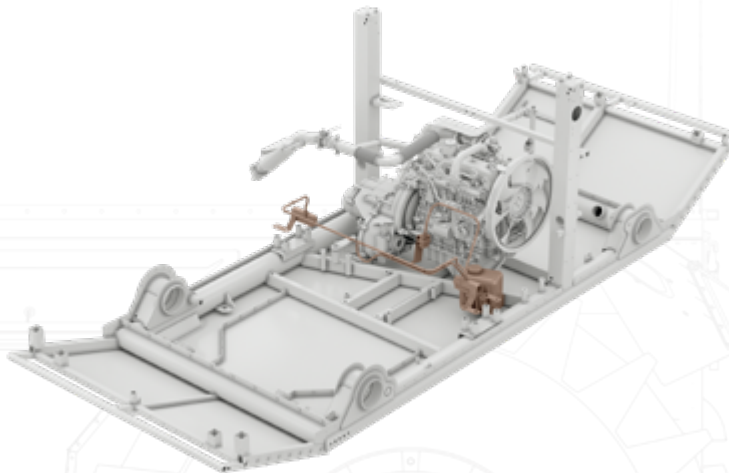
Half axles of the all-terrain vehicle are made of forgings. This solution has made it possible to strengthen the half axles, making them lighter and stronger.



### 31. Simple Semi-Automatic Lubricating Chain

The semi-automatic lubricating chain is used in the design of the Sherp. Due to this, the driver does not need to leave the cab — he can lubricate the chain directly from the cab. That requires the driver to simply press a couple buttons on the dashboard.

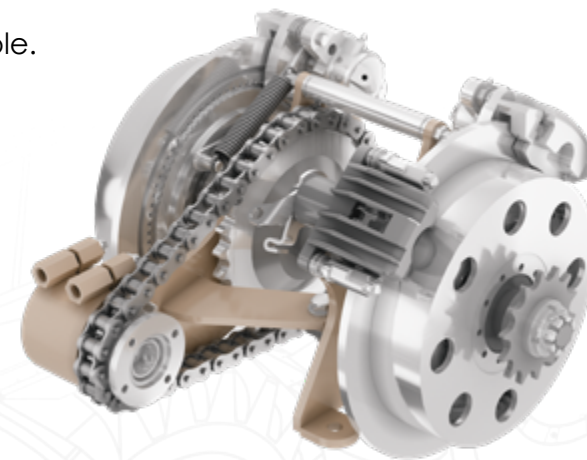
One lubrication is enough for trouble-free operation of the all-terrain vehicle chains for 5-10 hours.



### 32. Rotation Gear

The friction mechanism, used in the SHERP all-terrain vehicle, provides an ability for quick turns. It is equipped with a hydraulic reinforcement system, due to which the driver needs to apply much less effort during maneuvering.

The rotation gear is reliable and simple.





### 33. Safety Glasses

Front glasses of the all-terrain vehicle are made of triplex. Polycarbonate is used for the production of rear window glass. The materials provide high strength and a high level of safety in all situations.



### 34. Industrial Tools

Only industrial tools are used in the SHERP all-terrain vehicle. All of them have proven their accuracy and reliability on modern water transport.



### 35. Engine Protection

The sensor system constantly monitors the temperature of the liquid coolant and the oil pressure. In the event of a critical temperature increase, the alarm will alert the driver, it helps to avoid an engine malfunction.



### 36. Manufacturer Warranty

The SHERP has an official warranty from the manufacturer; therefore, in the event of any malfunctions, you can always rely on the fast and qualified help of our specialists.

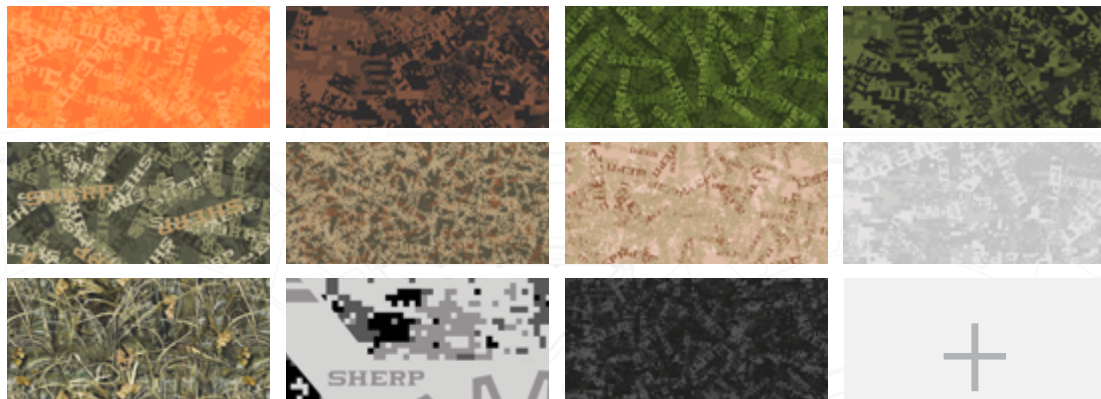
**The firm manufacturer warranty** is your confidence in the reliability of the allterrain vehicle Sherp and the help of professionals.

Also, the support service operates 24/7.



### 37. Color Options

There are various color options. You can change the appearance of the SHERP all-terrain vehicle and make it more appropriate to the type of the environment. Also, it is possible to apply a unique design in the form of a texture or camouflage by the customer's request.



### 38. Flexible Space Management Capabilities

Cabin space management options:

#### **A) transformable side hammocks of the Cordura fabric.**

*They have 3 positions:*

- To organize loading;
- To sleep;
- Transport position.

#### **B) 3 universal transformable lockers**

Each of them has 4 positions and various functions.









SHERP *PRO*

Travel Speed:	
maximum speed (at the top-gear), km/h	40
minimum speed (at the low-gear), km/h	1,5
speed on the water, km/h	6
type of tires	tubeless, extra-low pressure
tire size	1 600 x 600 x 25
type of terrain	anything
hourly fuel consumption (depends on ground conditions), l/h	2-3 (depending on the type of soil)
fuel tank volume, l	56
capacity of additional fuel canisters	58 x 4
climbing capability, cm	100
uphill gradient, degrees	35
maintenance intervals, m/h	50

Overall Dimensions:	
length, mm	3400
width, mm	2520
height, mm	2520
body	aluminum
dry weight, kg	1300
engine	Kubota V1505-t / E3B
fuel type	diesel
volume, cm <sup>3</sup>	1498
ultimate output, h.p	44,3
gearbox	mechanical, 5-speed
suspension	pneumocirculation
parking brake system	independent
clutch	SACHS
clearance, cm	60
cylinder count	4
bearing capacity, kg	1000
seats equipped with seat belts	2

SHERP *Pickup*

Travel Speed:	
maximum speed (at the top-gear), km/h	40
minimum speed (at the low-gear), km/h	1,5
speed on the water, km/h	6
type of tires	tubeless, extra-low pressure
tire size	1600 x 600 x 25
type of terrain	anything
hourly fuel consumption (depends on ground conditions), l/h	2-3 (depending on the type of soil)
fuel tank volume, l	56
capacity of additional fuel canisters	58 x 4
climbing capability, cm	100
uphill gradient, degrees	35
maintenance intervals, m/h	50

Overall Dimensions:	
length, mm	3400
width, mm	2520
height, mm	2520
body	aluminum
dry weight, kg	1300
engine	Kubota V1505-t / E3B
fuel type	diesel
volume, cm <sup>3</sup>	1498
ultimate output, h.p	44,3
gearbox	mechanical, 5-speed
suspension	pneumocirculation
parking brake system	independent
clutch	SACHS
clearance, cm	60
cylinder count	4
bearing capacity, kg	1000
seats equipped with seat belts	2



In conclusion of our development was the creation of a product with such uniqueness. It is confirmed and protected by patents in **27 countries** of the World.



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**SHERP**  
CONQUERS THE WORLD



## TEST DRIVES

The best way to experience the capabilities of the all-terrain vehicle is to try it out yourself. The company organizes test drives in natural conditions on a regular basis: on polygons with hills, ravines, swamps, and sandy terrains.

The test drive is a real challenge and a unique opportunity to personally experience the simplicity, power, and cross-country characteristics of the SHERP.

Would you like to take part in the test drive? Fill out an application at **sherpteam.ca**. There is also a schedule of the nearest test drives with an indication of the spots.





## SERVICE CENTERS

Even the most reliable machines periodically need repairs and maintenance. For that reason, we have created a network of service centers. Each of them is authorized by our company and is ready to offer the highest professional level of service for SHERP all-terrain vehicles.

**The chain of maintenance centers continues to grow.**



## EXHIBITIONS

The SHERP is a regular participant of various international specialized exhibitions. Every appearance of the Sherp on the exhibition becomes an event that attracts specialists, journalists, and ordinary visitors.



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## PRODUCTION

Mass production of the SHERP all-terrain vehicle was launched in 2015. Through the use of modern equipment and the participation of qualified employees, it was possible to produce about two hundred machines during this time.

The enterprise is managed according to the **ISO 9001** standard, which allowed the company to enter the international level and successfully implement the SHERP in different countries.

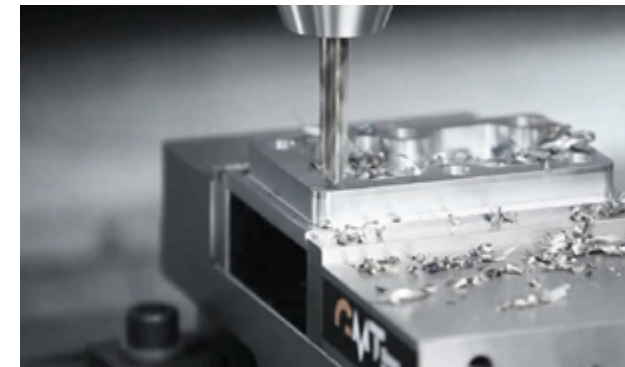
The constant growing number of orders motivates the company to expand its production facilities. As a result, the number of jobs is increasing, and specialists from new areas are being invited.



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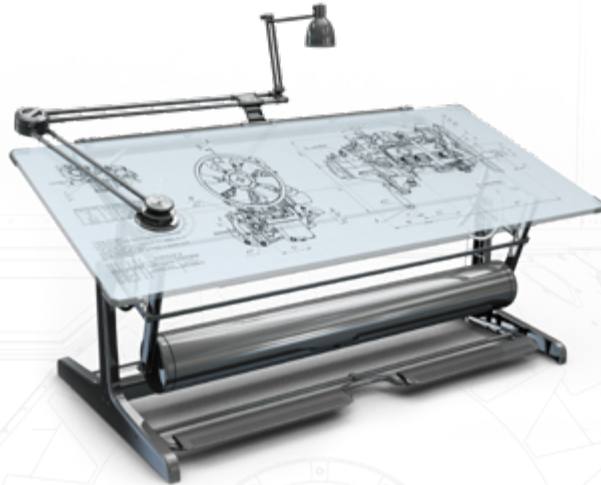


## NEW DEVELOPMENTS

**Outstanding and unique features** — is not a reason to stop the development!

The company continues to develop and improve solutions that make the SHERP allterrain vehicle even more reliable, powerful, efficient, and convenient.

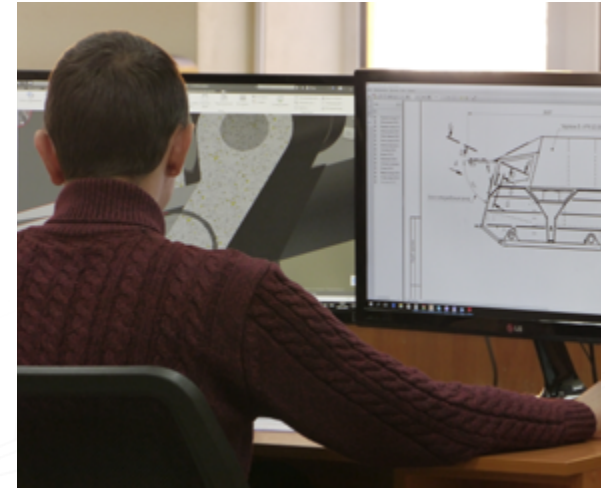
Each part, each mechanism or assembly undergoes multiple tests. A team of designers carefully examines the results obtained in order to offer new, more effective solutions.



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## EXTENSIVE SPHERE OF APPLICATION

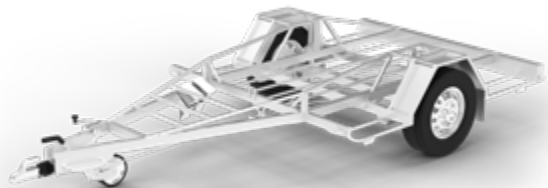


One of the advantages of the SHERP all-terrain vehicle is its **universality**. Today, it is used in oil-and-gas and geological exploration, forestry, for environmental control, delivery of brigades to the place of repair work, delivering cargo to remote and hard-to-reach areas, for search activities, rescuing people from breakaway ice floes, during floods and other emergencies.

In addition, the SHERP is perfect for specialists in the study of flora and fauna in the wilderness, foresters, reserve workers, fishermen, hunters, supporters of extremal sports, and recreationists in the wilderness.



## OPTIONAL EQUIPMENT



### TRAILER

A unique trailer is designed for the transportation of the SHERP ATV. Loading the Sherp on the trailer takes only a few seconds.



### WINTER SNOW WHEELS

Wheels, modified by unique spikes with a particularly durable tungsten tip for increased cross-country ability.



### INSERT INTO THE BILGE BOX

Allows to use its volume for useful purposes. This box was specially designed to improve the convenience of the operation of the SHERP all-terrain vehicle.



### LED AUXILIARY HEAD-LIGHTS

The powerful LED lights are designed to operate in the most severe conditions; they are water resistant and continue to function even at extreme temperatures.



## OPTIONAL EQUIPMENT



### RESERVED ACCUMULATOR

The accumulator, connected with the accumulator decoupling network (ADN), is responsible for backup power in the allterrain vehicle.



### FUEL CANISTERS BUILT INTO THE WHEELS

Installation and use of fuel canisters built into the wheels significantly increase the autonomy of the all-terrain vehicle and increase the fuel distance, not at the expense of cabin space.



### HEATER

The heater is compact and efficient, yet powerful. It takes less than a minute to warm up the compartment of the all-terrain vehicle and is designed for long-term uninterrupted operation.



### LOCKER BOXES

Locker boxes are the convenient and functional solution. They can be used both for storage of necessary things, and as a table, bench, and bed. Locker boxes are equipped with locks and handles for easy transportation.

## OPTIONAL EQUIPMENT



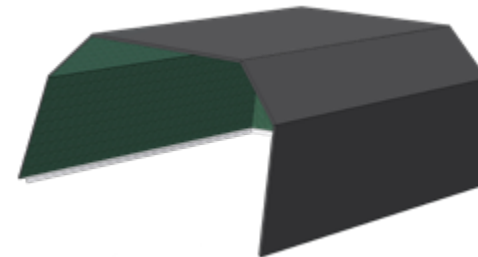
### WINCH

The powerful winch with the three-stage planetary reduction unit, able to develop the traction power of 2500 lb, which will help to you get out of almost any unforeseen situation or rescue others.



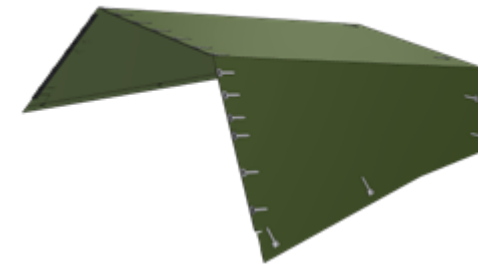
### PASSIVE SAFETY ARC

The protection from rollovers is a very important attribute of special vehicles which will help to not only secure the vehicle from severe damage but to save your life and health during the rollover.



### VAN BODY

The van body (Unified body of neutral clearance) made of plastic and is very light, while being mounted on SHERP Pickup allows to get all advantages of the enclosed vehicle.



### TENT

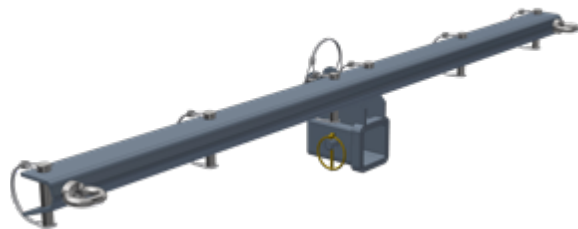
Tent is the necessary attribute of the SHERP Pickup as it is able to protect the luggage and engine rooms from rain and snow, which will allow to save your luggage and the operational integrity of the vehicle.

## OPTIONAL EQUIPMENT



### BOAT-TYPE SLED

Sherp boat-type sled has a wide functionality. It may be used both for swimming and for transportation of goods on any surface.



### TOW HITCH

The hitch is attached to the rear bumper with the fast make-up connections in several points, which allows to evenly split the impact on the Sherp frame.



### BACK-EYE CAMERA


The back-eye camera significantly simplifies the operation of the SHERP all-terrain vehicle. It provides good visibility, which allows the easy reverse drive and parking, even when the space is limited.





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TOURISM  
PIPELINE  
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 **SHERP**