



KAMYSHMASH

ГЕРДА



GERDA

INDUSTRIAL SCIENCE
ENTERPRISE

WE ARE ALWAYS OPEN FOR MUTUALLY BENEFICIAL COOPERATION

ABOUT

GERDA Industrial Science Enterprise was established in 1992 as an engineering company focused on supply of equipment associated with inventory control and safety for the gas and oil industry. Initially GERDA imported, engineered, and adapted for the local use foreign industrial measuring instruments, firefighting equipment, and oil loading equipment. Since 1996 the company has been developing and manufacturing its own products. This gave GERDA the ability to no longer have the need for importing goods, but rather to produce them domestically. Today GERDA employs a staff of competent engineers and designers, has its own production facilities and representative offices in several regions of Russia, Republic of Belarus, Kazakhstan, Ukraine, Greece and Sweden. GERDA is constantly searching for innovative technical solutions and developing new products. The company welcomes mutually beneficial collaboration from customers, other manufactures and developers. Most of GERDA's products are manufactured at the Kamyshin machine factory (KAMYSHMASH). The factory was founded in 1931 and initially produced agricultural machinery; however, after an extensive modernization in the early 2000s, it has been transformed into the region's largest producer of oil and firefighting equipment as well as other products with logo "GERDA".



In addition to its current production a vehicle restoration facility has been added on to the factory which now provides complete restorations for all types of antique automobiles. In 2007 the factory received a Certificate of Allocation confirming KAMYSHMASH entry into the World Manufacturer Identifier (WMI) list and launched production of the multipurpose vehicle GERDACAR.

Electric transport vehicle "GERDACAR"

GERDACAR is a vehicle with many uses that range from transportation within a factory to tours around hotel complexes, parks, and resorts. Easy to operate, this electric vehicle combines convenience and comfort as well as the all-terrain capabilities of an SUV. The GERDACAR Electro is perfect for transporting passengers and small cargo on paved roads as well as unpaved off road trails.



The GERDACAR electro is available in many different variants designed for passengers or goods. The passenger version is designed to carry, including the driver, 4 to 6 people, and the cargo version can be equipped with various types of body modifications for goods. The vehicle's capacity depends on a chosen modification being between 400-450 kg for a standard chassis and 450-500 kg for an elongated one. Our vehicles have passed extensive tests and are certified for conformity with GOST R № ROSS RU.MT.27.H*

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Popular modifications

GERDACAR electro consists of a welded frame (steel or optional aluminium) with mounted electric engine, steering gear and undercarriage. The engine allows you to smoothly change speed in any direction, forward or reverse. The frame is available in several versions: standard, extended and lightweight. Unlike its competitors, GERDACAR electro is equipped with an independent suspension on all of its wheels. This suspension insures a smooth drive on any type of road. The Passenger version, depending on the modification, is capable of carrying 2 to 6 people, including the driver. For the transportation of goods, materials and mechanisms, the body can be equipped with a bed with folding sides. It is also possible to install other equipment such as a welding machine, compressor, or anything of the sort that the customer may desire. On request, the chassis can be fitted with optional seats, a tipper bed, windscreen, roof and electrical equipment. Such electrical equipment will allow the GERDACAR electro to be used at night or in conditions with poor visibility. The electrical equipment includes lights, turning lights, reverse and brake lights. For comfortable operation on mountain roads the GERDACAR can be equipped with upgraded brakes and a higher powered engine with a regenerative function. On request, lithium batteries can be installed. These batteries are lighter and charge quicker than standard (lead-acid) ones while providing a power reserve of more than 100 kilometres.



There is a long list of additional equipment, including alloy wheels and carriage basket.



GERDACAR electro, with engine power of 3.7 kW are not subject to registration, do not require compulsory insurance (OSAGO), an annual inspection and are not subject to the transport tax.*

Main technical characteristics for GERDACAR electro 3.7-4

Loading capacity	400 kg
Electrical shunt-wound motor	
Net weight	565 kg
Rated power	3.7/5.1 kW/hp.
Ground clearance	220 mm
Batteries	120Ah
The permitted speed (max)	20 km/h (30 km/h)

Power reserve	up to 60 km
Time of full battery charge	6 hours
The stopping distance from a speed of 20 km/h	6 m
The min turning radius	3,65 m
The noise level at a speed of 20 km/h	53 db
Track of front/back wheels	975/985mm
Angle of approach/departure	57° / 43°

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Exclusive interior finishing and custom tailoring

Basic set

NAME	STANDARD FRAME	EXTENDED FRAME
Frame	Steel, length 2600 mm, width 1240mm height 1200 mm (with the roof – 1900mm)	Steel, length 3500mm, width 1240mm, height 1200 (with the roof – 1900mm)
Wheel base	1850 mm	2630 mm
Suspension front/back	Independent/independent	
Steering	Rack	
Wheels	Stamped, 12 inches	
Tires	135 / 80 R12	
Engine	Electrical 3.7 kW (5.1 h.p.)	
Batteries	SSK 120 Ah	
Transmission	10:1	13:1
Rear Axel	With differential	
Brakes	Hydraulic disk on a back axis	
Hood Assembly	Composite plastic	
Seats	1 row (2 seats, driver and 1 passenger)	
Net weight	565 kg	615 kg
Loading capacity	450 kg	500 kg
Power reserve	60 km	50 km

OPTIONS

- Roof
- Windshield
- An additional row of seats
- Bed or cargo platform
- Tipper bed
- Electrical equipment set
- Side rain-curtain
- Lightweight aluminium frame
- 5.3 kW engine with regenerative function
- High-capacity batteries
- Lithium batteries
- Seat heating
- Seat belts
- Special modification

BENEFITS

- Excellent manoeuvrability
- Low noise level
- Can be used in factories or warehouses
- Is not subject to registration with the traffic police*
- Does not require an annual inspection*
- Does not require compulsory (OSAGO) insurance*
- High ground clearance - 220mm
- Independent suspension of all wheels
- Easy to operate
- Various modifications and execution on-order for the customer
- No harmful emissions into the atmosphere
- Developed and produced in Russia

GERDACAR is easy to operate, has excellent visibility from within and its small size allows you to maneuver easily in factories, warehouses, or anywhere where space may be an issue. The independent suspension and ground clearance of more than twenty centimeters allows it to transvers all types of terrain. All of these advantages allow the GERDACAR to perform a great number of tasks:

- Maintenance of hotels, holiday homes, resorts
- Transportation of passengers and luggage in airport terminals
- Maintenance of stadiums and sports complexes
- Movement of staff and patients in large medical institutions
- In-warehouse or in-factory transportation
- Delivery of units and accessories to the place of repair work with the limited dimensions of the entrance
- Maintenance of agricultural enterprises and farms
- Patrolling of forests and hunting farms

Electric vehicle GERDACAR with a 3.7 kW engine does not require registration with the traffic police.* In order to drive on public roads GERDACAR should have a set of electrical equipment installed (head lights, direction indicators, brake and reverse lights)* GERDACAR with a petrol engine or 5.3 kW electric motor falls into the mini-tractors class, and is not a subject to registration with the traffic police (paragraph 2 of the Resolution of the Government of Russian Federation of 21.02.2002 № 126.), for operating on public roads such GERDACAR should be registered in GOSTECHNADZOR.*

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Special modifications

The dual-purpose GERDACAR (cargo-passanger) is suitable for on premises transportation of repair-teams and equipment. A GERDACAR with an isothermal configuration can be suitable for food transportation. The «Ambulance» variant of the GERDACAR is equipped with a stretcher and is intended for service in medical institutions and sport complexes. This list is not exhaustive and if the desired modification is not listed, we are ready to develop and produce a GERDACAR designed specifically for your needs. A wide range of additional equipment allows adapting the GERDACAR for any condition. The GERDACAR may be equipped with solid rubber puncture-proof tires, which will enable it to navigate through most production areas without the fear of a puncture. To increase the power reserve on the GERDACAR electro, it is possible to install high-capacity batteries with an automatic rehydration system to provide distilled water to the batteries when needed. The installation of a trailer hitch allows the GERDACAR to haul a trailer or other special equipment such as a compressor.

Basic options of GERDACAR electro modification



Basic modifications of GERDACAR electro

PASSENGER STANDART	
GERDACAR electro 3.7-4 2 rows of seats (4 people); 1 st row – driver and a passenger, 2 nd row – two passengers. Electric engine 3.7kW (5.1 h.p.)	
CARGO STANDARD	
GERDACAR electro 3.7 – 1.1B Two seats, driver and one passenger Cargo Area 1100x1100x1400mm Loading capacity is 400 kg, loading height 800 mm Electric engine 3.7 kW (5.1 h.p.)	
CARGO SHORTENED	
GERDACAR electro 3.7 – 0.7B Two seats, driver and one passenger Cargo Area 1100x1100x400 mm Loading capacity is 400kg, loading height is 800 mm Electric engine 3.7 kW (5.1 h.p.)	
CARGO WITH TIPPER BED	
GERDACAR electro 3.7-1.1 C Two seats, driver and one passenger Tipper Bed 1100x1100x400mm Loading capacity 400 kg, loading height 800 mm Electric engine 3.7kW (5.1 h.p.)	
AMBULANCE	
GERDACAR electro 3.7 – MED Two rows of seats: 1 st row – driver, 2 nd row – passengers The stretcher is located on the right side Electric engine 3.7 kW (5.1 h.p.)	
PASSENGER EXTENDED	
GERDACAR electro U-3.7-6 Three rows of seats (6 people); 1 st row - driver and one passenger, 2 nd row – two passengers, 3 rd row – two passengers Electric engine 3.7 (5.1 h.p.)	
CARGO-PASSENGER EXTENDED	
GERDACAR electro U-3.7-4-1.1 B Two rows of seats: 1 st row – the driver and one passenger, 2 nd row – two passengers Cargo Area 1100x1100x400 mm Loading capacity 500 kg, loading height 800 mm Electric engine 3.7 kW (5.1 h.p.)	
CARGO EXTENDED	
GERDACAR electro U-3.7-1.6B Two seats, a driver and a passenger Cargo Area 1600x1100x400 mm Loading capacity 500 kg, Loading height 800 mm Electric engine 3.7 kW (5.1 h.p.)	
CARGO EXTENDED WITH HIGH BOARDS	
GERDACAR electro U-3.7-1.6 VB Two seats, a driver and a passenger Cargo Area 1600x1100x600mm Loading capacity 500 kg, loading height 800 mm Electric Engine 3.7 kW (5.1 h.p.)	
CARGO EXTENDED WITH LATTICED BOARDS	
GERDACAR electro U-3.7-1.6R Two seats, driver and passenger Cargo Area with latticed boards 1600x1100x600mm Loading capacity 500 kg, loading height 800 mm Electric Engine 3.7 kW (5.1 h.p.)	
ISOTHERMAL VAN	
GERDACAR electro U-3.7-1.6F Two seats, driver and passenger Isothermal cargo compartment 1600x1100x1000mm Swing doors on the left side and at the back, a shelf with adjustable height Loading capacity 450 kg, loading height 800 mm Electric Engine 3.7 kW (5.1 h.p.)	
All of these models are available with petrol engines of 125 cm³ (7.7 h.p.) and 150 cm³ (8.3 h.p.)	

List of additional equipment

OPTIONS
A set of equipment for registration in GOSTECHNADZOR (headlights, side lights, reverse and brake lights)*
Additional row of seats (2 seats)
Two additional rows of seats (4 seats: 2+2)
Cargo platform (without boards) 1100x1100mm
Cargo platform (without boards) 1600x1100mm
Bed 700x1100x400mm
Bed 1100x1100x400mm
Bed 1600x1100x400mm
Tipper bed 1100x1100x400mm
Isothermal van 1600x1100x1000mm
Soft-top for the bed (PVC on a metallic frame)
Tow bar for towing
Basic roof (2000mm)
Extended roof (2500mm)
Soft roof (PVC on metallic framework)
Windshield
Rubber floor mats
Lateral blinds in the cabin
Additional headlights
Rear-view mirrors
Custom tailoring of the upholstery for seats
Heated seats
Seat belts
Alloy wheels
Winter tires
Cast anti-puncture tires
Special tires for lawn
Narrow tires to increase the power reserve
Lightweight frame (aluminum)
Engine 5.3 kW (7.3 h.p.) with a recovery function
Batteries with increased capacity
Lithium batteries
High Performance Brakes
Application of your company's colors and logo
Other personal requirements

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