



SOLAR

Inflatable motorboats
The LPIB concept founder



**PRODUCTS
CATALOGUE**

2022



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Concept of SOLAR - the new step of evolution of inflatable motor boats!

In 2002 the Russian company Solar received a patent for The invention of a boat with a fully inflatable bottom and has since produced motor boats of its own original design, tirelessly developing its own line of inflatable motorboats design: with fully inflatable low-pressure keel bottom.

And in autumn 2013 we started production of absolutely revolutionary tunnel boats. Currently these have become a priority in our activities. Every year we develop more and more perfect models especially for water-jet engines. In the season 2022, Solar Company presents an unprecedented range of inflatable motor boats for mountain rivers and shallow water! Three lines of boats with a water tunnel. Rapids. Mixed conditions. Waterless small rivers. Over 15 different boats for any task! In the 2022 season, the SOLAR boat range is so diverse that we can even offer you a boat model for a specific region and river.

Our products have an army level of safety and are characterized by double redundancy of all characteristics. In other words, the safety margin is such that if you double the limit load, our boats will still withstand them.

Unlike now widespread analogues, each, without an exception, SOLAR boat, even the smallest one in a MAXIMA bundle, has in a base set all necessary strengthening of a bottom, tubes and a floor in a boat! The thickness of the materials is up to 2.6 mm. Layers of protection made of reinforced polyester PVC fabric applied to the boat in inflated state and remain untensed throughout the life of the boat. Damaging them in natural conditions is quite a difficult task. On a SOLAR boat you can safely approach the rocky shore, hit logs and stumps and do rafting.

SOLAR boats have been tested for many years in the cold waters of the Arctic Ocean seas and in the hot conditions of sunny Spain. They are well familiar with lakes of Karelia, Canada and the great Baikal. They have shown their best qualities on the mountain rivers of the Mountainous Altai, Khakassia, the Urals, Yakutia and even distant Alaska.

And oh how much more is there to come!...

Join us!



Our company is the pioneer of a new direction in the market of inflatable boats — PVC boats with LPIB (low pressure inflatable bottom). For already more than 18 years we have been actively developing this direction, year by year bringing to market more and more perfect models that meet all the desires of our highly demanding customers.

The SOLAR boats are a fusion of innovation and brand new consumer qualities!

We are working for those who cares about getting only positive vibe from being in touch with nature, trying to make their short days of rest as comfortable and fulfilled as possible!

SOLAR boats advantages

Wide model range [22 models], consisting of boats designed for different requirements and operating conditions: From mountain rivers to "open water"

The boats are easy to inflate and get ready to use

The inflatable bottom is as rigid as that of payole boats and RIB

Can be used with both screw and waterjet engines

The world's best suppliers PVC fabric used in manufacturing doesn't rot and is oil and gasoline-resistant

Hot air welding technology is actively used in production. All seams have additional protective tapes on both sides

Back-to-back seams with polyurethane adhesive are additionally glued on both sides with PVC material

Possibility to make a lot of additional improvements to the design, allowing to turn any SOLAR boat into a real "off-road": strengthening of keel, transom, any elements of the boat

The boat's light weight. Due to the absence of plywood of aluminum elements in the bottom structure and their rails

The bottom also adds to the softness of movement. The inflatable bottom perfectly cushions and smoothes out vibrations and shocks of the boat against water during movement, for which your spine and what you sit on will be really grateful

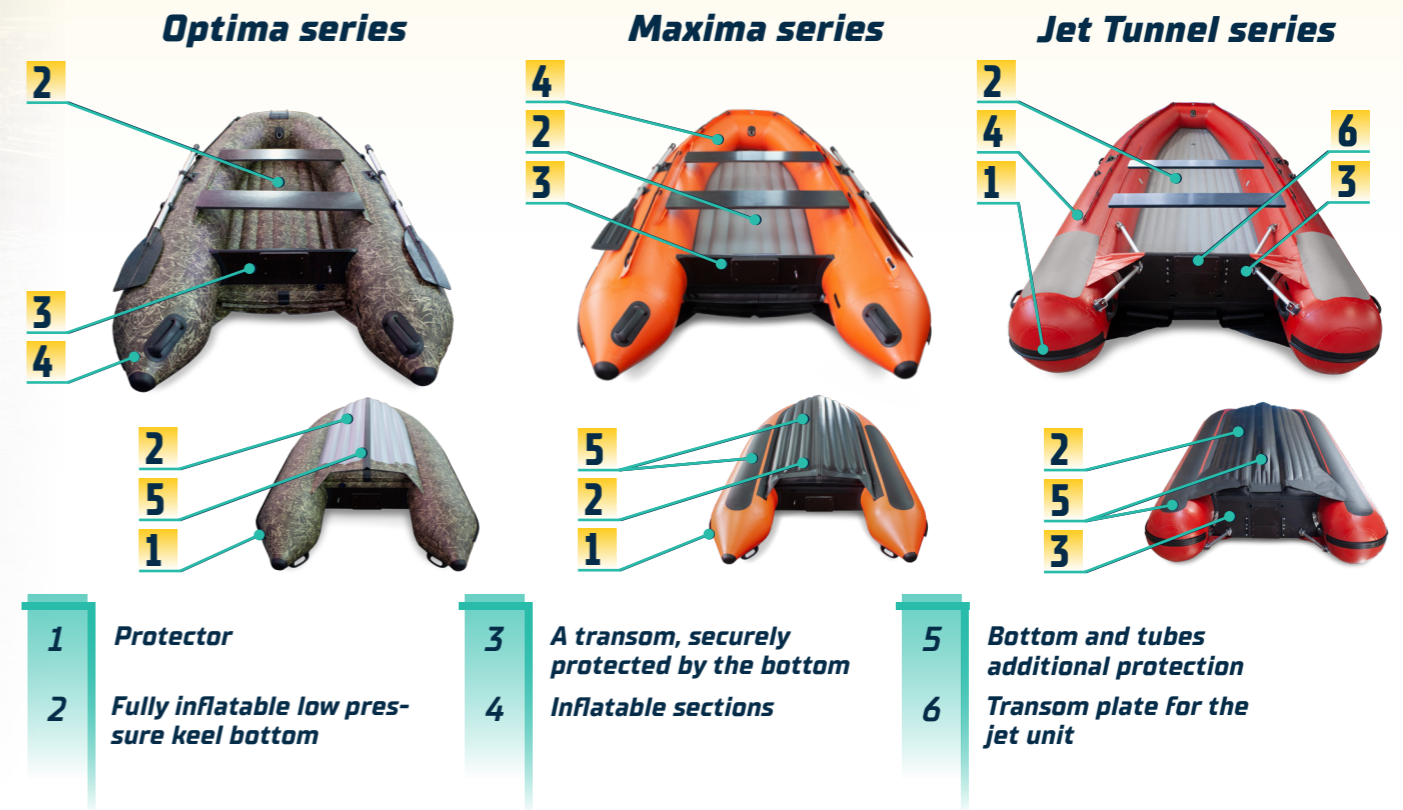


SOLAR boats models

Keel series (K)		Series (SL)	Tunnel series (Jet tunnel)		
MAXIMA bundle	OPTIMA bundle	ECONOMY bundle	Super Jet tunnel (RIB)	Strela Jet tunnel	Super Jet tunnel
		300			
	310				
	330	330			
350	350	350		420 Strela	
380	380	380		450 Strela	430 Super
420			470 (RIB)	470 Strela	470 Super
480			555 (RIB)		520 Super
			600 (RIB)		555 Super

SOLAR boats design and construction

SOLAR boats are made of several varieties of PVC - fabrics from the world's leading manufacturers (Heytex, Mehler, MSD, Woonpong and others), which have different properties for the production of certain boat elements from them..



- 1 Protector
- 2 Fully inflatable low pressure keel bottom
- 3 A transom, securely protected by the bottom
- 4 Inflatable sections
- 5 Bottom and tubes additional protection
- 6 Transom plate for the jet unit

The unique design of our boats is that the deck, considering that it's an inflatable construction, has a **flat, rigid surface**. The possibility of its damaging during operation is minimized. This way, you can stand up and bravely throw spinning or fire a shotgun without the risk of stumbling. For total safety, the deck is covered with a layer of **anti-slip fabric** on top of the deck (in **MAXIMA** and **JET TUNNEL** models).

Additional equipment

When supplying boats we take into account the maximum wishes of the customer!

At your request, we install sets of equipment for remote control; tents of different types with windows made of transparent film; transom devices the jet unit and a lot of other stuff...

Standart delivery package



Delivery

The SOLAR inflatable-bottom motor boats are delivered by leading transport companies. You can also buy PVC boats in shops of our official dealers in Canadian cities.

SOLAR products warranty

Warranty on all seams, assemblies and parts of boats – 24 months*;

Warranty on PVC material - 5 years.

* SL boats have a 12-months warranty

Round tube

Density of PVC fabric of the round tube, gr/sq.m.

SOLAR boats models	300	310	330*	350*	380	420	430	450	470	480	520	555
Keel (Optima)		900	900	900	950							
Keel (Maxima)				900	950	1050				1050		
Jet Tunnel (Maxima)					950	1050	1050	1050	1050		1450	1450
SL (Economy)	850		850	850	850							

Number of independent inflatable sections

SOLAR boats models	300	310	330	350	380	420	430	450	470	480	520	555
Number of independent inflatable sections	3+ bottom	3+ bottom	3+ bottom	3+ bottom	3+ bottom	4+ bottom	4+ bottom	4+ bottom	4+ bottom	4+ bottom	4+ bottom	4+ bottom

Strengthening of the lower surface of the tube - 750 g./sq.m

* Except SL series boats



Bottom

Design features of the bottom

A structural feature of **SOLAR** boats is a **keel fully inflatable low-pressure bottom (LPIB)**, which provides the necessary stiffness and performance. The bottom is glued into the boat's sides and bow in two lines, giving the structure a stiffness comparable to that of RIB. The stiffness of the bottom when inflated is achieved not due to pressure, but thanks to vertical bulkheads, longitudinally mounted inside the bottom, made of fabric with zero residual elongation.

The design of the **SOLAR** boat bottom makes it possible to avoid the use of kilson, to eliminate voids between the bottom and the hard floor, to create a single shape of the inflatable bottom with a given keel without using rigid sheets. This significantly improves the reliability, hydrodynamic and running characteristics of the boat.

More than 15 years of experience in development and production allows us to create boat models that meet a wide variety of operating conditions from open reservoirs to small mountain streams. The **SOLAR** boats meet all modern demands of rescuers, foresters, geologists, meteorologists, oil and gas producers, tourists, hunters and fishermen.

OPTIMA bundle (K)	MAXIMA bundle (K), Jet Tunnel	ECONOMY bundle (SL)
- bottom 1200 gr./sq.m - deck 900 gr./sq.m	- bottom 900+750* gr./sq.m - deck 900+850** gr./sq.m	- bottom 850 gr./sq.m - deck 850 gr./sq.m

*Protection layer
**Anti-slip layer



Transom

For the installation of outboard motors, the boats are equipped with transom made of waterproof, laminated plywood. The special feature is that the transom is **installed directly on the bottom** of the boat. This gives huge advantages when navigating in shallow water and reduces to zero the possibility of damage to the bottom of the transom against logs, stones, rocks and other underwater obstacles. Depending on the boat's purpose, the height of the transom can be made either for a piston or a waterjet motor.



Seats

All seats are made of waterproof, laminated plywood. Plastic fasteners provide reliability of installation and possibility of moving the seats along the boat cockpit, thus allowing to choose the most convenient place of a seat for any user.



Accessories

Components used in the manufacture of our boats meet all necessary safety, reliability and durability requirements.

Sun Life

SL is a 'weekend boat' made of durable single-layer PVC fabric, which mainly reduces weight. The boats, due to their weight and dimensions, make it possible to use them comfortably for one person.

The SL models have good water resistance, which allows easy walking on the bottom of the boat.

The SL boats are simplified versions for lakes, reservoirs, bays, etc. The design of the model allows its use with and without a motor.

Keel boats Economy bundle

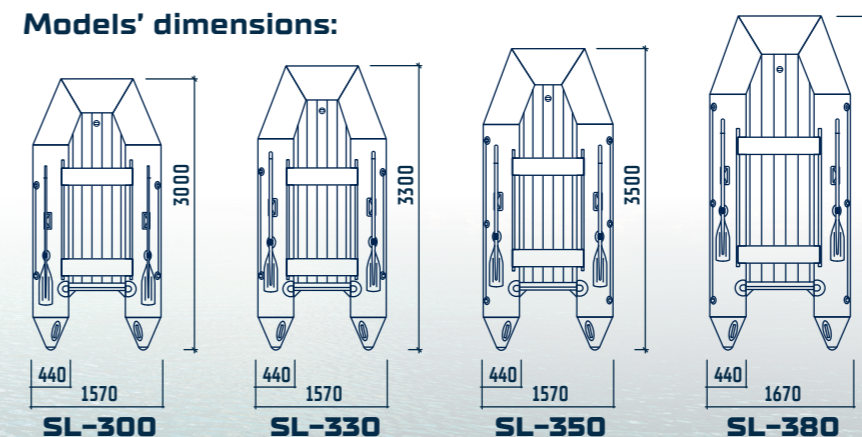
SOLAR SL



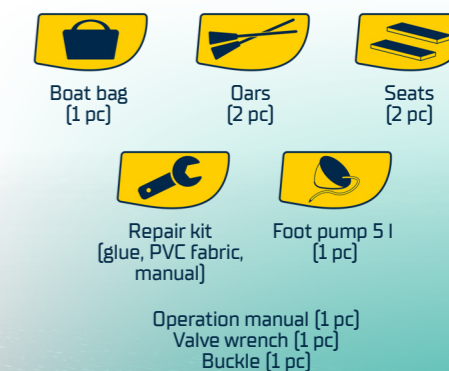
Technical specifications:

Model	Dimensions (length, width, diameter of the tube), m	Cockpit size, m	Cargo capacity, kg*	Passengers capacity, persons	Maximum motor power and weight, HP / kg	Weight packed, kg	Package dimensions, m	Boat net weight, kg
SL - 300	3,00 x 1,57 x 0,44	1,90 x 0,67 x 0,30	350	2	9,9 / 26	35	1,10 x 0,48 x 0,37	25,5
SL - 330	3,30 x 1,57 x 0,44	2,19 x 0,67 x 0,30	400	3	9,9 / 26	37	1,15 x 0,55 x 0,44	27,5
SL - 350	3,50 x 1,57 x 0,44	2,43 x 0,67 x 0,30	450	3	9,9 / 26	38,4	1,17 x 0,60 x 0,49	28,8
SL - 380	3,80 x 1,67 x 0,44	2,70 x 0,80 x 0,30	600	4	9,9 / 38,5	42,8	1,26 x 0,63 x 0,50	32,5

Models' dimensions:



The delivery package includes:



These boats are designed to meet the needs of customers who do not need to over-pay for unnecessary weights in normal conditions in the form of additional layers of the floor and bottom protection. The very name OPTIMA implies a combination of relatively light weight, ergonomics and cost.

The buyer gets the opportunity to buy a quality innovative product from a large well-known brand with 15 years of history!

SOLAR keel boats in the Maxima bundle are designed for trouble-free operation in harsh marine conditions. Each keelboat has a double safety margin, as its lower part is reinforced with another layer of PVC, already by default!

The series of SOLAR motor boats in the Maxima bundle have long ago earned a reputation of comfortable and quality among fishermen and hunters in northern Russia. By the way, the increased payload is another advantage of this series of boats

Keel boats
Optima bundle

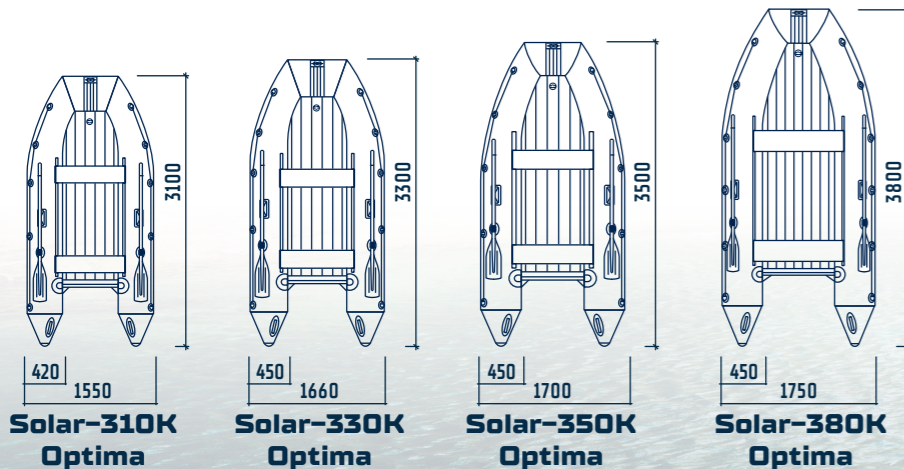
SOLAR Optima



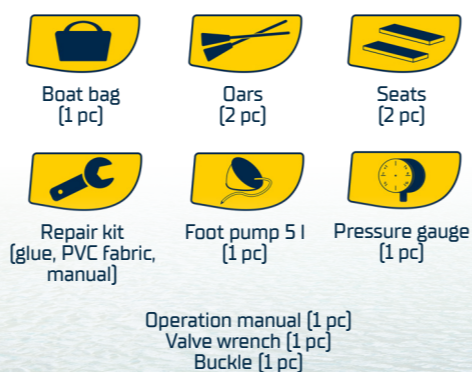
Technical specifications:

Model	Dimensions (length, width, diameter of the tube), m	Cockpit size, m	Cargo capacity, kg*	Passengers capacity, persons	Maximum motor power and weight, HP / kg	Weight packed, kg	Package dimensions, m
Solar - 310 K Optima	3,10 x 1,55 x 0,42	1,95 x 0,73 x 0,30	400	2	15 / 40	45	1,10 x 0,45 x 0,35
Solar - 330 K Optima	3,30 x 1,66 x 0,45	2,10 x 0,74 x 0,30	450	3	15 / 45	47	1,10 x 0,45 x 0,35
Solar - 350 K Optima	3,50 x 1,70 x 0,45	2,40 x 0,80 x 0,30	500	3	15 / 50	49	1,10 x 0,50 x 0,35
Solar - 380 K Optima	3,80 x 1,75 x 0,45	2,65 x 0,81 x 0,37	600	4	20 / 60	58	1,15 x 0,55 x 0,35

Models' dimensions:



The delivery package includes:



Keel boats
Maxima bundle

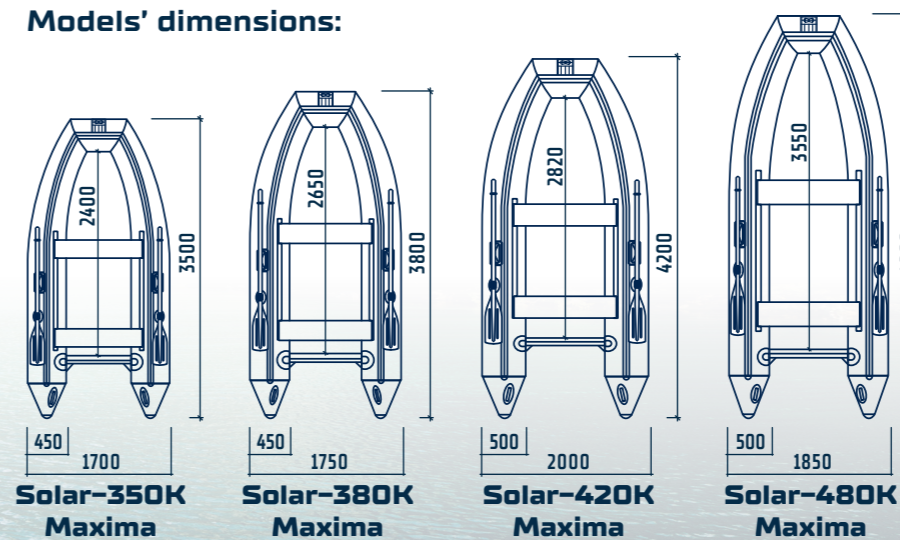
SOLAR Maxima



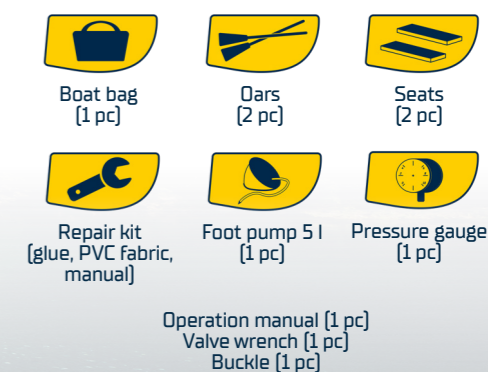
Technical specifications:

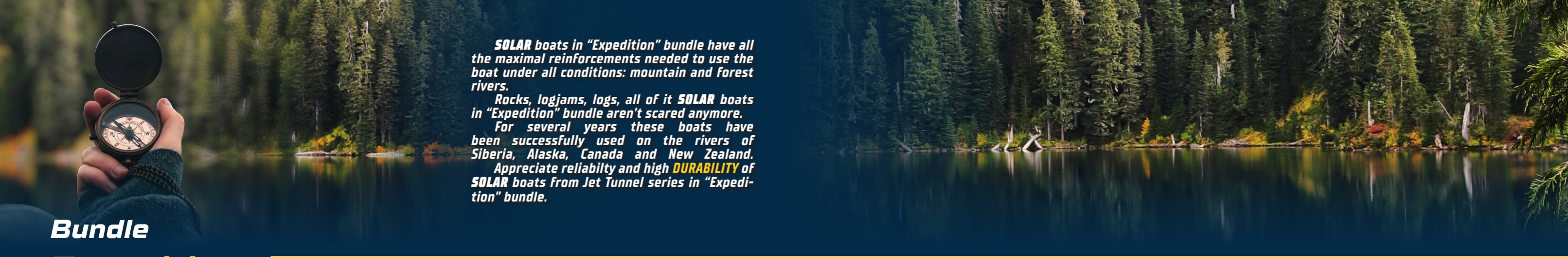
Model	Dimensions (length, width, diameter of the tube), m	Cockpit size, m	Cargo capacity, kg*	Passengers capacity, persons	Maximum motor power and weight, HP / kg	Weight packed, kg	Package dimensions, m
Solar - 350 K Maxima	3,50 x 1,70 x 0,45	2,40 x 0,80 x 0,30	500	3	15 / 50	52	1,10 x 0,50 x 0,45
Solar - 380 K Maxima	3,80 x 1,75 x 0,45	2,65 x 0,81 x 0,37	600	4	20 / 60	62	1,15 x 0,55 x 0,45
Solar - 420 K Maxima	4,20 x 2,00 x 0,50	2,82 x 0,90 x 0,37	800	6	40 / 80	79	1,45 x 0,60 x 0,45
Solar - 480 K Maxima	4,80 x 1,85 x 0,50	3,55 x 0,85 x 0,39	800	6	50 / 90	102	1,30 x 0,55 x 0,55

Models' dimensions:



The delivery package includes:





SOLAR boats in "Expedition" bundle have all the maximal reinforcements needed to use the boat under all conditions: mountain and forest rivers.

Rocks, logjams, logs, all of it **SOLAR** boats in "Expedition" bundle aren't scared anymore.

For several years these boats have been successfully used on the rivers of Siberia, Alaska, Canada and New Zealand.

Appreciate reliability and high **DURABILITY** of **SOLAR** boats from Jet Tunnel series in "Expedition" bundle.

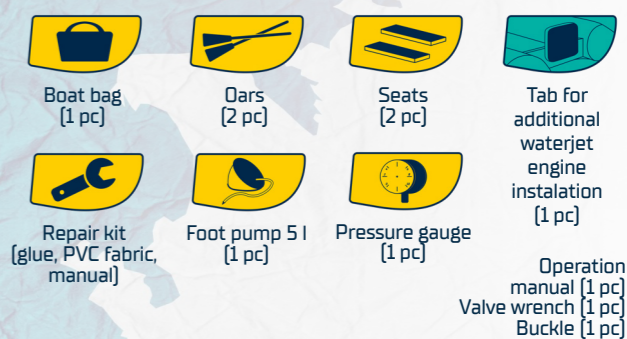
Bundle Expedition

SOLAR «Expedition» boats are as well equipped as possible. On the boats already installed:



- 1 Whole lower part of the boat (up to the boat fender, tubes and bottom) already has the full range of polyurethane film reinforcements *(see page 19)*
- 2 Fixed 20 cm bulwark *(see page 24)*
- 3* Transom reinforcement set for motors up to 60 HP
- 4 Elongated interceptor (increases max. load capacity and reduces the time until you are in a glide mode)
- 5 Front raincover *(see page 24)*
- 6 Cargo compartment

The delivery package includes:



* When the boat hits something, especially rocks, it causes microvibrations. This, in turn, shake the transom bracing. Transom reinforcement set absorbs these microvibrations.

Two stainless steel plates are also included in the Expedition bundle. They mechanically fasten a block of transom, tubes and bottom.



Boat models in "Expedition" bundle:

Solar - 420 Strela Jet Tunnel (orange, pixel)	Solar - 470 Strela Jet Tunnel (orange, pixel)
Solar - 430 Super Jet Tunnel (orange, pixel)	Solar - 470 Super Jet Tunnel (2020) (orange, pixel)
Solar - 520 Super Jet Tunnel (red, pixel)	Solar - 555 Super Jet Tunnel (red, pixel)

NEW!

Super Jet Tunnel (RIB)

SOLAR Super Jet (RIB)

Our company SOLAR developed the original boat concept RIB (Rigid Inflatable Boat).

These are intended to be used in waterless bodies of water, by using an outboard jet unit as well as engines with aerodrives.

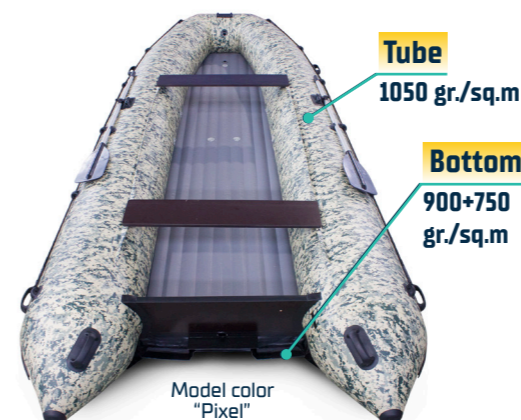
First model of a new product class SOLAR RIB-JET 5-470

Strela Jet Tunnel — these models have seen the most dangerous and narrow rivers in Siberia and Sakhalin, and they showed the best results in cross-country ability, speed, maneuverability and load capacity.

The boats for the real Boy Scout and his friends.

Strela Jet Tunnel

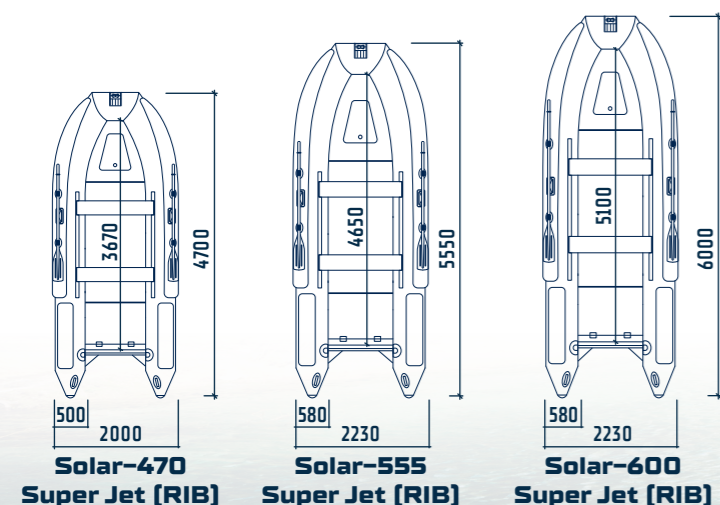
SOLAR Strela



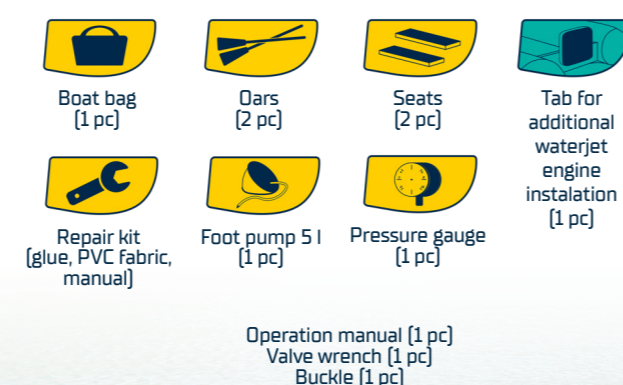
Technical specifications:

Model	Dimensions (length, width, diameter of the tube), m	Cockpit size, m	Cargo capacity, kg*	Passengers capacity, persons	Maximum motor power and weight, HP / kg	Weight packed, kg	Package dimensions, m
Solar - 470 Super Jet (RIB)	4,70 x 2,00 x 0,50	3,67 x 0,90 x 0,43	800	6	60 / 130	188	4,30 x 1,30 x 0,70
Solar - 555 Super Jet (RIB)	5,55 x 2,23 x 0,58	4,65 x 1,05 x 0,48	1200	8	60 / 130	267	5,15 x 1,60 x 0,70
Solar - 600 Super Jet (RIB)	6,00 x 2,23 x 0,58	5,10 x 1,05 x 0,48	1300	10	140 / 180	282	5,60 x 1,60 x 0,70

Models' dimensions:



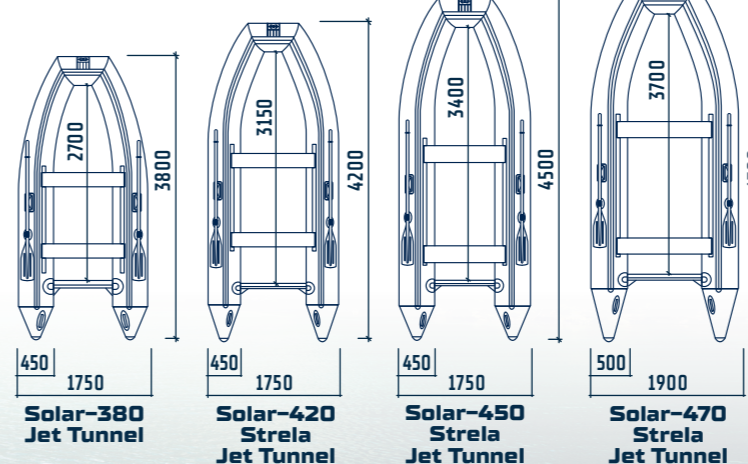
The delivery package includes:



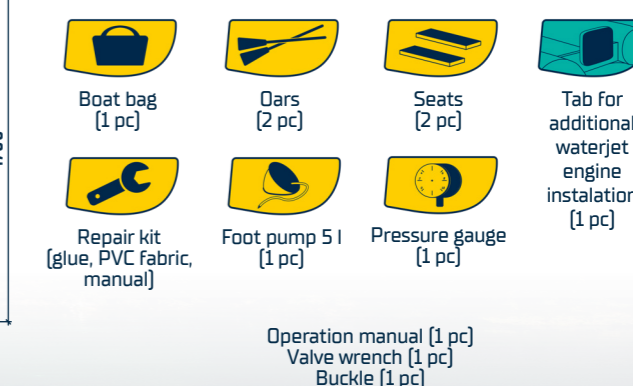
Technical specifications:

Model	Dimensions (length, width, diameter of the tube), m	Cockpit size, m	Cargo capacity, kg*	Passengers capacity, persons	Maximum motor power and weight, HP / kg	Weight packed, kg	Package dimensions, m
Solar - 380 Jet Tunnel	3,80 x 1,75 x 0,45	2,70 x 0,81 x 0,37	600	4	30 / 80	66	1,40 x 0,55 x 0,40
Solar - 420 Strela Jet Tunnel	4,20 x 1,75 x 0,45	3,15 x 0,81 x 0,37	700	5	30 / 80	75	1,40 x 0,70 x 0,40
Solar - 450 Strela Jet Tunnel	4,50 x 1,75 x 0,45	3,40 x 0,81 x 0,35	800	6	40 / 80	85	1,30 x 0,50 x 0,50
Solar - 470 Strela Jet Tunnel	4,70 x 1,90 x 0,50	3,70 x 0,85 x 0,38	800	6	50 / 90	86	1,40 x 0,60 x 0,55

Models' dimensions:



The delivery package includes:



Super Jet Tunnel - the superiority of these models consists in being able to cross virtually water-free places.

Thanks to their width, these models have maximum stability in the water. The maximum cockpit surprises with its capacity!

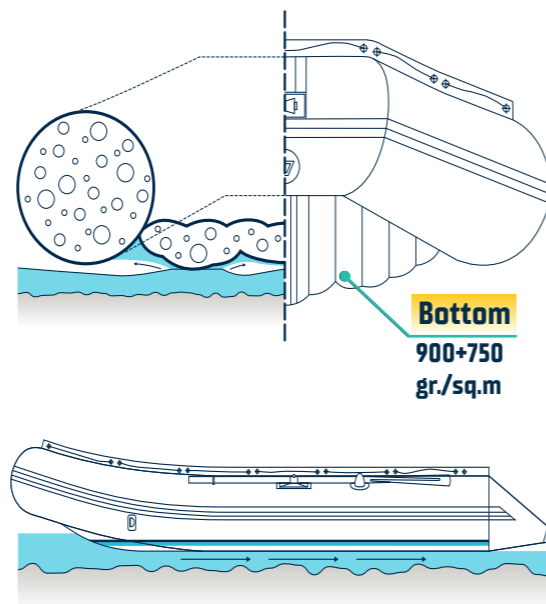
Absolutely universal expeditionary models.

Super Jet Tunnel

SOLAR Super Jet

Tunnel height

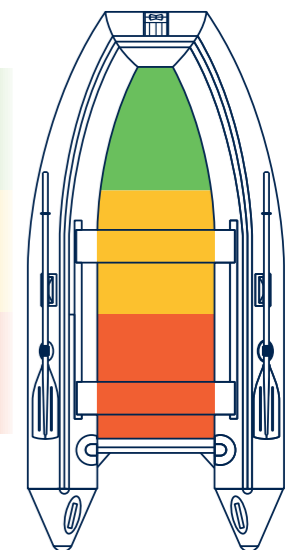
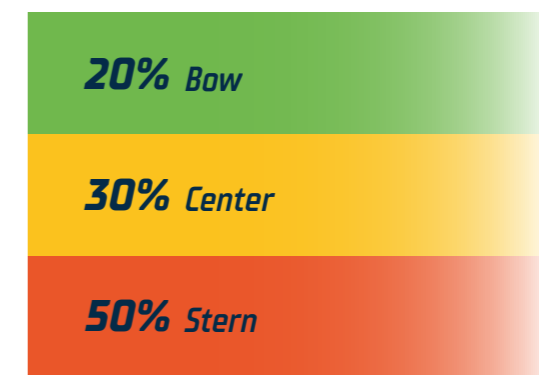
80-90 mm



Cargo distribution scheme for all models of SOLAR boats

The maximum cargo capacity of a boat is the total weight of people + engine weight + fully filled fuel tank + various additional loads.

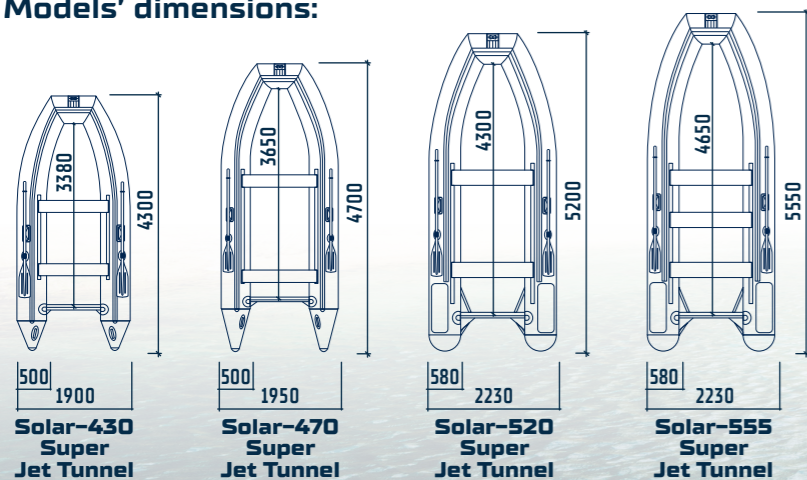
For maximum stability of the boat on the water it is important to adhere to the norms of correct load distribution in the boat.



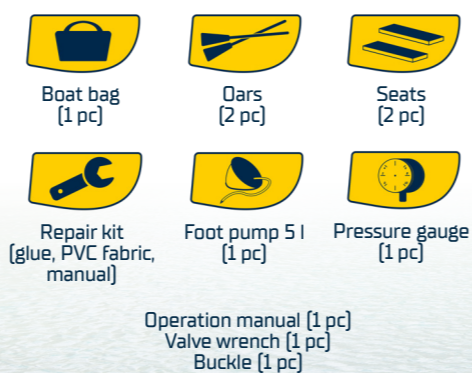
Technical specifications:

Model	Dimensions (length, width, diameter of the tube), m	Cockpit size, m	Cargo capacity, kg*	Passengers capacity, persons	Maximum motor power and weight, HP / kg	Weight packed, kg	Package dimensions, m
Solar - 430 Super Jet Tunnel	4,30 x 1,90 x 0,50	3,38 x 0,80 x 0,25	700	5	40 / 80	83	1,20 x 0,45 x 0,45
Solar - 470 Super Jet Tunnel	4,70 x 1,95 x 0,50	3,65 x 0,93 x 0,32	800	6	50 / 90	95	1,40 x 0,60 x 0,55
Solar - 520 Super Jet Tunnel	5,20 x 2,23 x 0,58	4,30 x 1,05 x 0,38	1100	9	115 / 190	130	1,55 x 0,65 x 0,55
Solar - 555 Super Jet Tunnel	5,55 x 2,23 x 0,58	4,65 x 1,05 x 0,38	1200	10	115 / 190	140	1,55 x 0,65 x 0,65

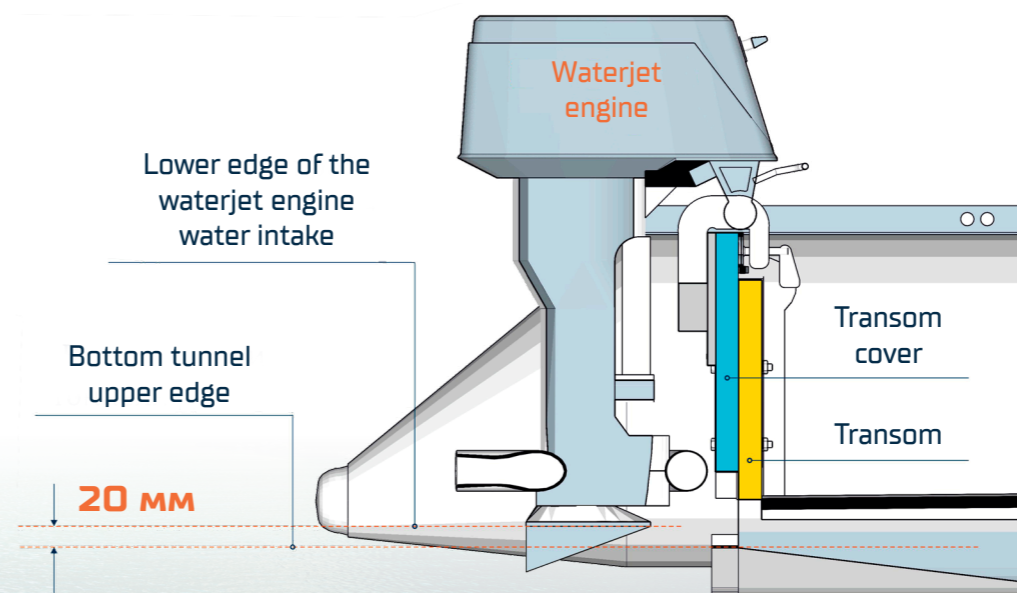
Models' dimensions:



The delivery package includes:



Waterjet installation scheme for tunnel SOLAR motorboats



Center the motor on the transom cover.

Tighten the clamping transom screws of the clamping brackets all the way to the limit. Make sure that the motor is positioned exactly in the middle of the transom, otherwise the boat will drag to the side as it moves.

Be sure to attach a safety rope to the motor to prevent it from sinking in the event of a transom failure. Fasten the other end of the safety rope securely to the stern hook of the boat.



Accessories for SOLAR boats



Swamp Engines

The outboard boat Swamp Engine motors are designed for operation both in shallow and marshy waters, and in other places, along with conventional types of motors for small vessels.

With Swamp Engines in this catalogue you no longer have to worry about the safety of your motor parts in viscous environments such as silt, sand, water and seaweed. These motors are used by both hunting and fishing enthusiasts, as well as people who often have to work in hard-to-reach areas such as river beds.

In our catalogue we have collected for you the best Swamp Engines in cross-country combined with Solar boats!

Design features

- The torque from the motor is transmitted to the propeller shaft by toothed belts. This allowed to apply a reduction and increase the torque on the propeller shaft, as well as the efficiency of the screw, and as a result, the overall speed and cross-country ability of the swamp engine.

- The propeller shaft is mounted on bearings. The deadwood is filled with oil.

- The use of rubber elastic elements in the motor suspension has significantly reduced the vibrations transmitted from the motor to the boat's hull.

- This motor is much easier to handle than a motor with a long shaft, while keeping all the advantages of a classic swamp cover. The adjustable tiller allows you to control the motor sitting down, and the folding design allows you to transport it in any passenger car.

- The air-cooled motor prevents the pump from breaking down.

The Swamp Engine design employs high quality structural steel, stainless steel elements and modern polymeric materials to increase the corrosion resistance of the product. **Most standard parts are available at any auto parts store!**



ICEs from China							
Spec	Model range						
	Swamp engine 7,5 HP	Swamp engine 7,5 HP with gearbox and clutch	Swamp engine 9 HP	Swamp engine 15 HP	Swamp engine 21 HP	Swamp engine 30 HP (2 cylinders)	Swamp engine 35 HP (2 cylinders)
ICE model	zongshen (China)	zongshen (China)	zongshen (China)	zongshen (China)	zongshen (China)	zongshen (China)	zongshen (China)
Output power	7	7	9	10,7	18	24	31
Strokes number	4	4	4	4	4	4	4
Displacement	225	225	270	420	620	750	1000
Launch	manual	manual	manual	electrical+manual	electrical+manual	electrical+manual	electrical+manual
Control	tiller	tiller	tiller	tiller	tiller	tiller	tiller
Trim	mechanical	mechanical	mechanical	mechanical	mechanical	mechanical	mechanical
Drive	30 mm belt	30 mm belt	30 mm belt	30 mm belt	50 mm belt	50 mm belt	50 mm belt
Propeller screw	steel (Russia)	steel (Russia)	steel (Russia)	steel (Russia)	steel (Russia)	steel (Russia)	steel (Russia)
Cooling	air	air	air	air	air	air	air
Light coil		7A		7A	7A	18A	20A
Power unit	steel 3	steel 3	steel 3	steel 3	steel 3	steel 3	steel 3
Weight	38 kg	42 kg	39 kg	64 kg	68 kg	87 kg	105 kg

ICEs from USA					
Spec	Model range				
	Swamp engine 18 HP (2 cylinders)	Swamp engine 23 HP (2 cylinders)	Swamp engine 31 HP (2 cylinders)	Swamp engine 35 HP (2 cylinders)	Swamp engine 37 HP with EFI (2 cylinders)
ICE model	Briggs Stratton Vanguard series (USA)	Briggs Stratton Vanguard series (USA)	Briggs Stratton Vanguard series (USA)	Briggs Stratton Vanguard series (USA)	Briggs Stratton Vanguard series (USA)
Output power	18	23	31	35	37
Strokes number	4	4	4	4	4
Displacement	570	627	896	993	993
Launch	electrical+manual	electrical+manual	electrical+manual	electrical+manual	electrical+manual
Control	tiller	tiller	tiller	tiller	tiller
Trim	mechanical	mechanical	mechanical	mechanical	mechanical
Drive	50 mm belt	50 mm belt	50 mm belt	50 mm belt	50 mm belt
Propeller screw	steel (Russia)	steel (Russia)	steel (Russia)	steel (Russia)	steel (Russia)
Cooling	air	air	air	air	air
Light coil	16A	20A	20A	20A	20A
Power unit	steel 3	steel 3	steel 3	steel 3	steel 3

Extras				
Power unit AMG3/5 alluminum for 30-37 HP engines	Electrical trim for 15-37 HP engines	Propeller screw USA	Stainless steel muffler for 30-37 HP engines	Camouflage painting (ICE included)



Tents

Driving transformer tent

A Driving transformer tent, also known as boat tent canopy is the most popular product among small boat owners. The design of the transformer tent allows you to feel confident in the water regardless of weather conditions.

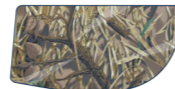
The canopy transformation options allow you to open either side of the boat, be it the bow, stern or sidewall, while the rest of the canopy remains on the frame and can keep you protected from wind or scorching sunlight.



Available colors:



"Blue-grey camo"



"Bulrush"



Bow tent

The PVC bow tent is designed to protect belongings and equipment of a fisherman or tourist from splashes and overlapping waves while the boat is moving. In addition, the bow tent has good aerodynamics, which has a positive effect on its performance.



Available colors:



"Transparent"



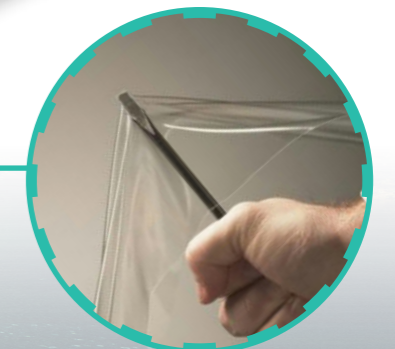
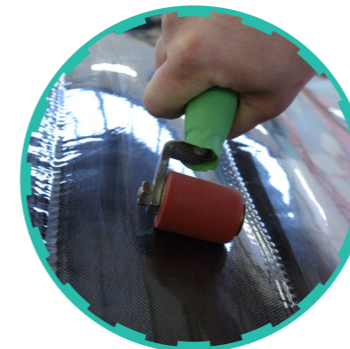
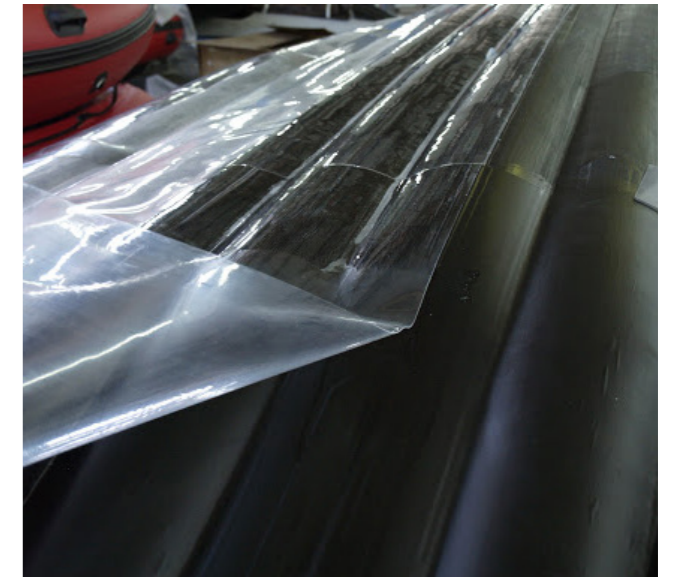
Additional boat reinforcement

Duplication of tubes and bottoms with polyurethane

Duplication of the bottom part of your inflatable boat with a polyurethane film is the most effective way to protect it from sharp stones (rocks), sharp branches and snags.

Thanks to its physical properties, polyurethane excellent resistance to abrasion and excellent tear and puncture resistance.

On the boat, when pumped to the working pressure, pre-masked with glue sheets of polyurethane film are put. And after this we dry and polymerize the resulting package of materials. The boat stays pumped for at least two days. Thus, the polyurethane film itself remains unstrained and it is much more difficult to damage it in natural conditions.



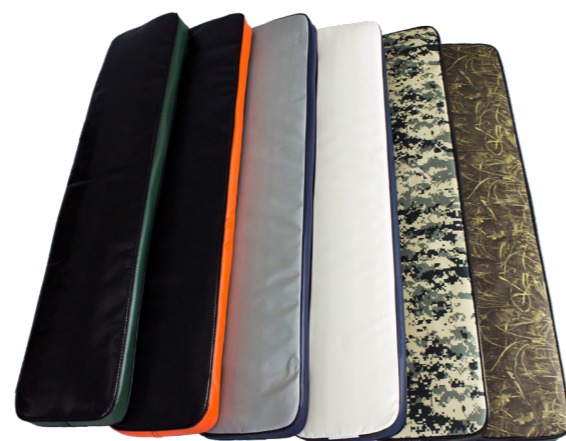


Seat covers

We offer you packs made up of covers [cover bags] designed for comfortable accommodation in the boat

The soft cover with a spacious airtight bag will help to place the load taken with you without losing the useful boat area. The sealed seams of the bag and the zipper protection valve will allow you to not ever worry about your luggage getting wet. In two can bags you can place a large amount of luggage, which, if lying in the boat, gets wet and may break on the move and when parked. Moreover, the bags can be easily unbuckled from the covers and be moved overland and carried in the trunk of a car.

The covers and bags are made of boat PVC fabric. They are waterproof and not prone to fungus and rotting.



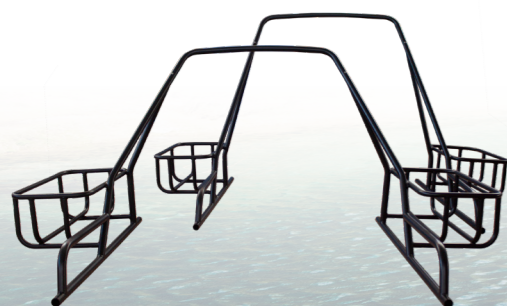
SOLAR boats models	Length, mm	Width, mm
SL - 300, 330, 350, 380; Optima - 310, 330, 350	960	230
Optima - 350, 380; Maxima - 350, 380, 480 Jet Tunnel - 380; Strela - 420, 450, 470; SJT - 430	1100	230
Maxima - 420; Jet Tunnel - 420, 500; SJT - 470	1230	230



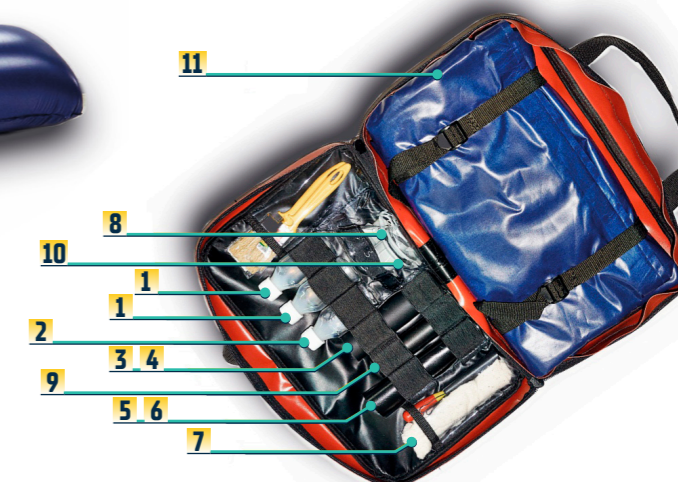
Stainless steel arch

This stainless steel arch is demountable. It mounts into grommet tape, and by virtue of the large area of support provides a rigid fixing.

The baskets are above the tubes and do not exceed their dimensions.



Expedition repair kit



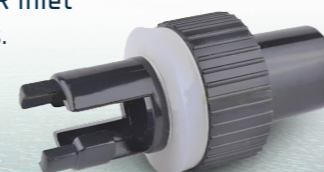
Repair kit composition			
№	Name	Quantity (volume, size)	Usage
1.	Polyurethane glue	150 ml (2 pc)	Gluing of leather, rubber, polyurethane, PVC, chipboard, etc.
2.	Degreasing liquid	100 ml	Cleaning and degreasing of glued surfaces
3.	PV fabric 1000 gr.m.	15x90 cm	Repair of tube damage [cut]
4.	PVC fabric 640 gr.m.	15x90 cm	Repair of the bottom duplication layer damage [cut]
5.	PVC fabric 1000 gr.m.	18x20 cm (2 pc)	Repair of tube damage [puncture]
6.	PVC fabric 640 gr.m.	18x20 cm (2 pc)	Repair of the bottom duplication layer damage [puncture]
7.	Non-fabric material	18x20 cm (2 pc)	Cleaning and degreasing of glued surfaces
8.	Folding oar pinch [supinator]	2 pc	Replacement if broken
9.	Gasket for intake valve	2 pc	Intake valve tampering elimination
10.	Intake valve adapter	1 pc	Replacement if broken
11.	Spare tube	2 pc	Temporary replacement of a damaged tube



Boat maintenance, diagnostics

SOLAR valve adapter

Ideal for all SOLAR inlet valves.



BRAVO checking pressure gauge

Equipped with bayonet connectors for quick check of pressure in inflatable body and keel elements. Connected directly to the valve. Scale markings up to 1000 mbar.



PVC repair kit

Glue, PVC fabric, repair manual





Bags, cases

SOLAR bags for tubes

Handy PVC bag. Placed on the stern of the tube, meant for useful little things. Securely mounted on four reinforced fastexes. Easy and quick to detach and attach.



Size: 650x200x180
Colors in stock

SOLAR bag for bolt-rope

Size:
30 cm (black, blue)
40 cm (black, grey, green)



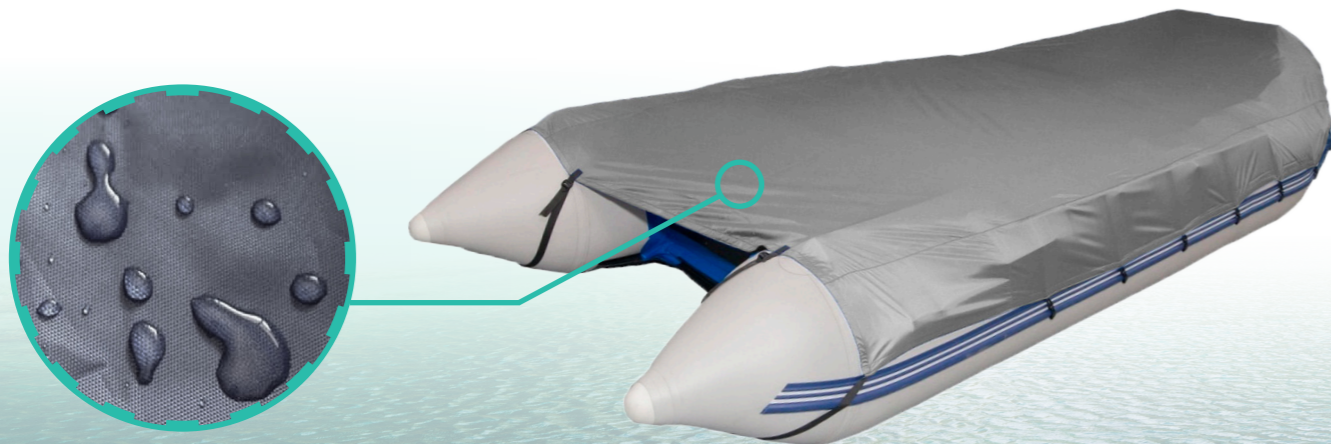
SOLAR baskets for tubes

Metal basket with stainless steel coating. Installed in the hinges at the stern of the tube. In such a basket you can put and fix boxes with fishing gear and catch.



Boat cover

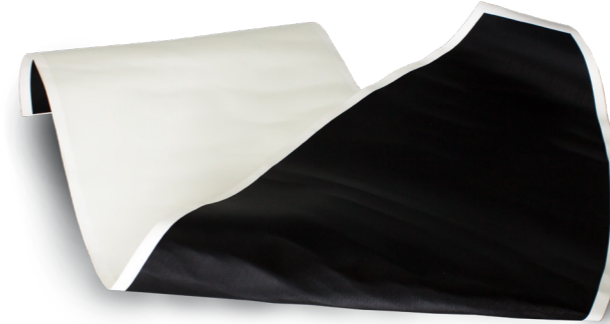
It can be used as a boat cover and as a transport tent. This cover is a simple way to protect the equipment from dirt and traffic soot during transportation, dust and sediment during storage. The structure of the cover is a canvas covering the boat along the perimeter from the nose to the endpoints of the tubes. If necessary, you can cover the boat with the engine or make a technical cutout for the engine. The outline of the tent corresponds to the contour of the boat. The tent is fixed to the boat by hooks along the perimeter of the bumper strip, which allows to transport the boat at a speed of 60-80 km/h and above. The package includes a cover storage bag.



Cockpit mat

Protective mat for the cockpit of the boat. Made from two PVC layers: black and light grey.

The main function is to protect the inflatable bottom from sharp objects, it is easier to wash it than the bottom of the boat: remove, shake, wash with water, put it back.



Cockpit mat (EVA)

The EVA mat for the inflatable boat is an excellent deck covering for protection against dirt and mechanical damage.

The material has thermal insulation properties, elasticity and plasticity, does not change the structure in a temperature range from -65 to +85°C, repeating the relief of the covered surface. Ethylene vinyl acetate, the foamed rubber, has a "zero" moisture absorption, i.e. does not absorb liquids, and dirt and sand are easily removed by simply rinsing the rug with water.

The surface of the mat is non-slip and consists of rhomboid cells. These cells collect the bulk of the sand and soil without allowing the fragments to damage the fabric of the boat, locking in the space between the deck and the tubes.

The frames of the strong strop gives the product an aesthetic appearance.

In a folded form, the mat is fixed by a fastener on the "velcro". In addition to all the positive qualities, the EVA mat has a small weight.





Rescue equipment

"Discovery" life jackets



Double-sided, filled with granulated cellular polystyrene foam. The inside of the jackets is camouflage-coloured. A high collar offers wind protection. Designed for weight of up to 100 kg. Don't restrain the movements. Designed by Russia's rafting champions.

Available colors: orange, camouflage

Available sizes [adult]: L, XL, XXL, XXXL



Front raincover

The front raincover from SOLAR is a must in rafting on difficult, mountainous, rapid rivers.

The raincover will protect your belongings from moisture and dirt and, unlike spray protection, will not restrict your view when moving.

Compact, comfortable, made of water-repellent material, the raincover will be a great addition to a boat of any configuration.

This option is also available when ordering a boat with bulwarks installed.



Bulwarks

Bulwarks are two independent inflatable tubes (d=160 mm), installed on the main boards of the boat.

Purpose:

- Increasing of the above-water boat sides;
- increasing the boat's seaworthiness;
- improving the passenger safety and protection against wind and splashing;
- enlargement of the boat capacity, allowing more cargo to be carried.



Pumps

BTP-12M electric pump

The Bravo BTP 12 M electric pump is designed for inflatable boats up to 6 m long and has a 12V power supply. This electric pump is equipped with a pressure regulator up to 1000 mbar and an integrated pressure gauge, has two stages with a production capacity of 160 and 450 l/min and connectors to the battery terminals.

The Bravo BTP 12 M pump comes with a set of adapters and a carrying bag.

Size:
30 x 20 x 16 cm



BRAVO BST 800 electric pump

Electric boat pump with 12 V supply (maximum operating current 13 A) and capacity 160/450 l/min, providing a maximum pressure of 800 mbar. The pressure can be set with a regulator located on the pump housing.

The Bravo BST 800 Boat Pump Set includes a cable with alligator battery connectors, carrying bag, air hose and adapter set.

Package size:
21 x 24 x 21 cm



Golfstream GP 80 electric pump

Bravo BST12 analogue. Voltage: DC12V Current strength: 20A Capacity, l/min: 500 Uninterrupted functioning time: 15 min Air pressure: 10 kPa - 80 kPa [0.1 - 0.8 bar] Pressure regulator setting step value: 5 kPa Air hose diameter: 20.5 mm Air hose length: 1.8m Cable length: 3 m Power connection: clamp for the battery Noise level: 67 Db/7m Warranty: 6 months.



BRAVO 6 manual pump

Manual two-way pump, volume 6 litres.



Jilong (Relax 12w) electric pump

Electric pump for inflating / deflating products powered by the vehicle cigarette lighter. A 12V power cable and adapters for different valve sizes are included.



BRAVO BST12 HP pneumatic compressor

Two-stage electric pneumatic compressor for boats with 12V power supply, maximum capacity of 450 l/min. and adjustable pressure up to 300 mbar, equipped with a cable length of 3 m with battery connectors. The kit includes a carrying bag and a set of universal adapters.

Package size:
21 x 24 x 18 cm



Foot pump (5 l)

A simple and reliable pump. Made in Russia. Bellows made of rather thick plywood and durable PVC fabric (similar to boat fabric).

Size:
20 x 27 x 7 cm

Pressure: 400 mbar
Volume: 5 l





Waterjet nozzles

Intake (water)

Waterjet nozzle - centrifugal pump, for installation on the motor of the boat. Waterjet nozzles are used to increase the boat's passability in critical shallow water conditions.

The motor, equipped with a water cannon, allows the boat to pass through a depth of up to 5 cm.

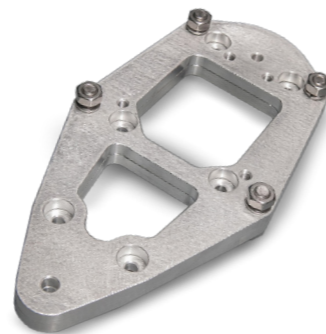
It is preferable to install motors with waterjet nozzles on SOLAR boats of Jet Tunnel series.



Quick release

With our quick release, you don't have to dismantle the waterjet nozzle to remove it from the engine!

The quick release consists of two halves, one fixed to the end plane of the deadwood, the other to the waterjet nozzle. After removing the screw gearbox from the motor, all you have to do is to screw in the four bolts, and the nozzle is in the right place!



Intake (water) OFF-ROADER

Made of polyurethane with a Shore durometer' of 95-98, has a high abrasion resistance, durability, well-quenched vibration, and retains its properties at a temperature of -60 to +110 degrees.

Grate plates and manifold washers made of steel 3.2 mm HARDOX 450

Design features:

- There is no gap between the form of the water intake and the plates of the grate, which makes it possible to reduce the impact on the axis of the grate.
- The inlet area is considerably larger than the original.
- Manifold washers are in the form of a crescent right at 3 fixing holes in the water intake and injected into the body of the water intake, to prevent detachment.
- The axles are more drowned into the body of the water intake.



Extras for transom

LPIB transom chassis

This device allows you to quickly and easily move the boat overland.

If you have nobody ready to help move the boat, the launching process will require a lot of effort, because in the assembled state, its weight is exactly as big as its size. The transom chassis are indispensable in such a situation.

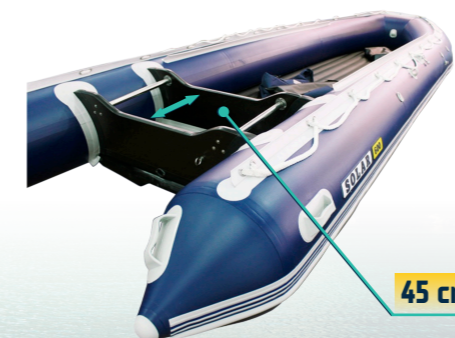


Our wheels are designed specifically for low-pressure inflatable boats (LPIB). Made of stainless steel, they have two locking positions:

- upper (for transport);
- lower (working).

The structure is installed on the outer side of the transom, where there is a special fastener.

Extra transom



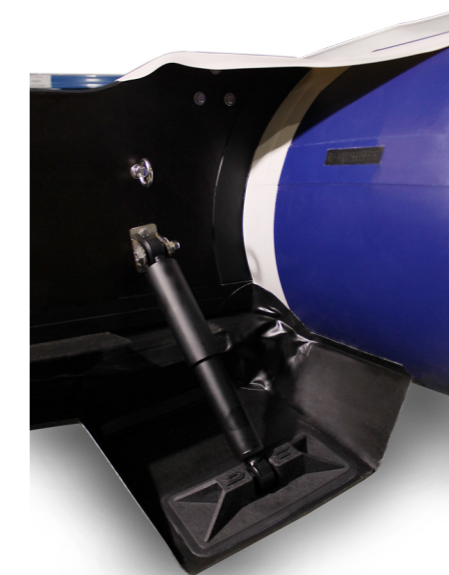
Transom plates

Designed to create additional lifting force at the stern of the boat and to make it easier to go into gliding.

Adaptive transom plates (with absorber)

Materials:

- monolithic polycarbonate 5 mm;
- PVC fabric;
- gas-oil shock absorbers;
- shock absorber buckles for fixing to transom plates.



The extra transom is effective when the boat is fitted with heavy engines of the maximum permitted power. It helps to reduce the load from the motor on the main transom and is mounted 45 cm away from it. Allows you to place a 50 litre tank between the transoms.

The set includes two tubes Stainless steel.

Transom reinforcement

Designed to increase the durability of fastening of a transom to a tube, during the installation of motors on the top power limit.

Provides a secure fit of the U-profile to the transom and prevents possible fallout of the plywood part when the motor hits stones.



Transom attachment for the installation of an outboard waterjet engine

It has a stainless steel fastener and an overlay for the outboard motor mounting stop.

Dimensions: 400x400 cm





Remote control

Steering console "Fire" (F.A.)

Side steering apparatus for PVC boats. Aluminium material, tube 22 mm, wall 3 mm, sheet AMG5 3 mm, powder polymer colour. Equipped with a comfortable shelf, windscreen made of polycarbonate. The fastening of the reducing gear is cut, and there is a convenient rigid platform for fixing the reverse gas engine. Weight is only 4 kg. It has 4 points of support, which allow to set steering console on the boat's tube firmly, as opposed to steering console with three support points. The design of the console makes it possible to install a tachometer, gadget power supply sockets, additional equipment control keys, echo sounder or chartplotter. Another feature is the fixing of the reverse gas machine so that in difficult places you could control your boat while you are standing.



Holder for spinning and fishing rods

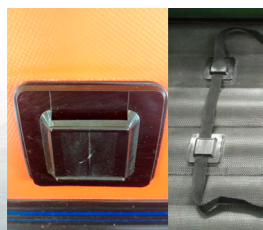
Very handy tool for real fishermen who are used to go out on the water to fish not only in quiet calm weather, but also in adverse conditions. This holder is mounted on the lycra cable, providing the convenience of being able to be installed in any place convenient for you, along the length of the lycra cable. The base of this holder is made of plywood and the glass is made of stainless steel. The diameter of the holder for spinning or fishing rod installation is 45 mm.



Fixings

Fuel tank mounting

The gas tank requires 2 fixings for mounting. The rope is not included.



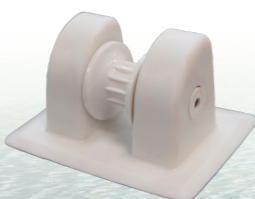
Hinge for securing the steering console

Orifice diameter: 18 mm



Anchor roller

Prevents the anchor rope from coming into contact with the boat's tube, making it easier to move.



Tent fixing (support)

Used for the installation of nose and traveling transformer tents.



Bow roller

Designed for fast, easy and secure anchorage of the halyard in any position.



Chairs

Soft folding chair F4040

The main advantage of the model is that it can be quickly and very easily folded. The width of the seat is 41 cm, so it can comfortably accommodate a large person in the volume, insulated equipment for winter fishing.

Materials:

- Foam with the layer of marine vinyl*. This material is extremely resistant to ultraviolet, pleasant to the touch and not afraid of water at all;
- Reinforced steel joints.



«Pixel»



«Olive»



«Grey-orange»



«Grey-blue»

*«Pixel» with PVC fabric

Seat frame



Take these with you outdoors!

IRIS 800 box



Dimensions: 78,5x37x32,5 cm
Load: 120 kg
Volume: 64 l

IRIS 700 box



Dimensions: 70,2x37x39 cm
Load: 80 kg
Volume: 62 l

IRIS 25B box



Dimensions: 41x31x32,5 cm
Load: 180 kg
Volume: 25 l

IRIS 460 box



Dimensions: 45,5x36x35 cm
Load: 120 kg
Volume: 28 l



Addresses of our stores

We make your rivers longer

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