



a **UAC** member



# Be-103

Light Amphibious Aircraft

Passenger & cargo  
Patrol  
Medivac  
Ecology monitoring



RA-01854

BERIEV SEA AIRLINES

BE-103

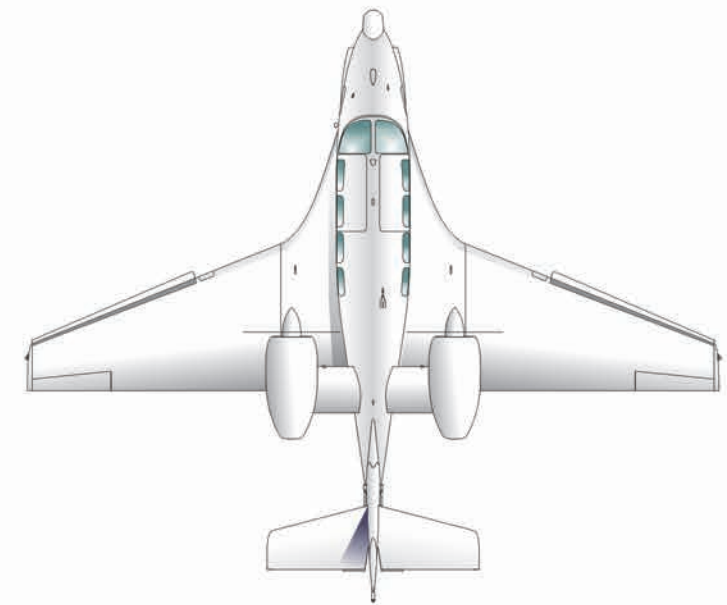
03103



BE-103

Be-103 is a 6-seater amphibious aircraft intended for operation in the coastal and island areas as well as in the areas abundant in rivers, lakes and shallow water reservoirs for solving a wide range of tasks as follows:

- patrolling the border lines, woodland and water areas;
- water areas ecological monitoring;
- pursuit and interception of poaching boats and motor boats;
- emergency-and-rescue activities on water;
- rendering urgent medical aid;
- tourism;
- cargo-and-passenger transportation.



## OVERALL DIMENSIONS

Aircraft length, m	10.65
Aircraft height, m	3.757
Wing span, m	12.72
Wing area, sq. m	25.1
Wheelbase, m	4.064
Track, m.	2.273
Passenger cabin:	
- Length, m	3.38
- Height, m	1.23
- Maximum width, m	1.25

## WEIGHT

Maximum takeoff weight (ground, water), kg	2,330
Maximum payload, kg	385



Be-103 is certified in Russia, the USA, Brazil, China and Europe.



## PERFORMANCE

Maximum takeoff (landing) weight, kg	2330
Service ceiling, m	4200
Cruising speed, (maximum range flight), km/h	180-210
Maximum cruising speed, km/h	240
Maximum payload, kg	385
Maximum number of passengers, persons	4-5
Maximum range, km	1070
Fuel flow (average), kg/h	40
Maximum fuel quantity, kg	243

## COMMON DATA

Seaworthiness, wind wave height, m (state)	0.4 (2)
Minimum depth of water for operations, m	1.25

## POWER PLANT

### ENGINES

Type	IO-360ES4 (Teledyne Continental Motors)
Quantity and power, h.p.	2 × 210

### PROPELLERS

Reversible feather propellers MTV-12-D-C-F-R(M)/ CFR 183-17 (MT Propeller, Germany)



Cockpit equipment allows flights performance in adverse weather conditions, by daytime and at night. "Glass cockpit" can be installed upon Customer's request.





03103

BE-103

## AIRFIELD CLASS AND CATEGORY

### LAND AIRFIELDS

Paved or unpaved runways can be used  
 with the minimum length, m ..... 940-1120  
 (for maximum weight and aborted takeoff)

### WATER AREAS

Length (minimum), m ..... 1500  
 Width (minimum), m ..... 100  
 Depth in no-wind conditions, m ..... 1.25  
 Depth at wave height of 0.15, m ..... 1.5



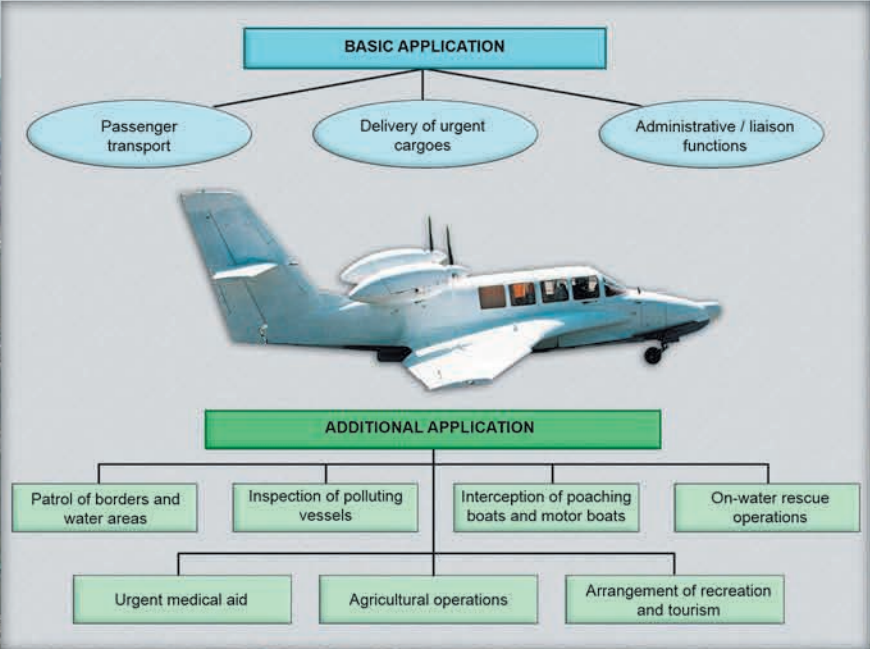
*View on typical seaplane base*

At customer's option the following systems can be installed:

- autopilot;
- weather radar.

In all configurations provision is made for installation of the copilot (instructor) control station.

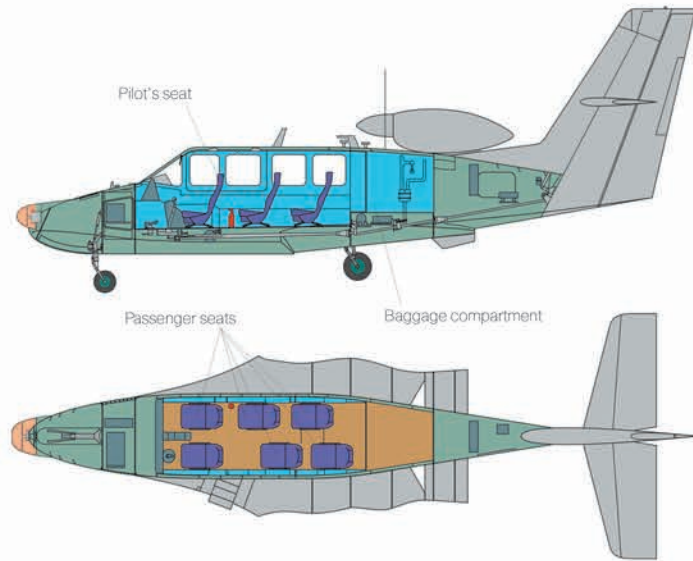
Due to the aircraft amphibious features the aircraft can be widely used in various areas with a large number of rivers, lakes water reservoirs which are hard-to-reach by other types of transport.





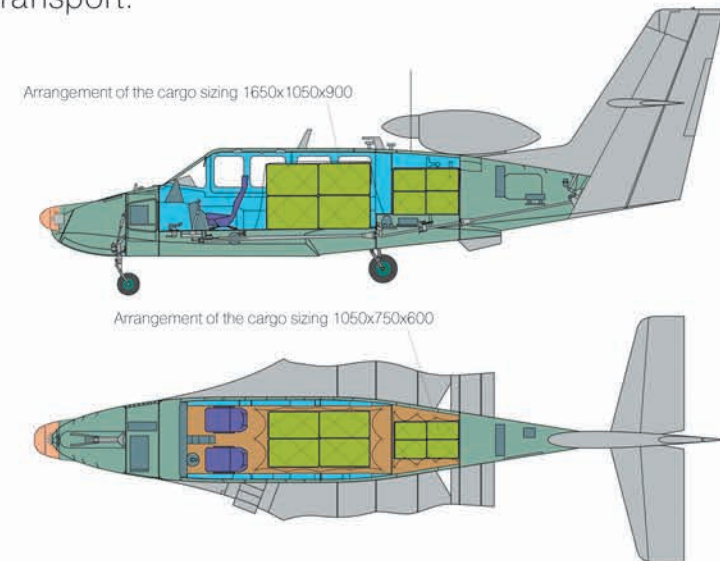
## PASSENGER TRANSPORT VERSION

Be-103 is mainly intended for passengers transportation. Excursion flights from water areas are of great demand.



## CARGO VERSION

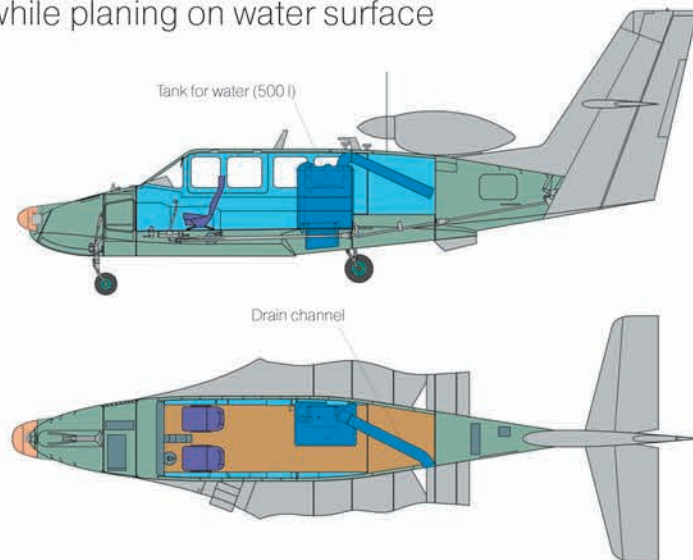
Cargo version of the aircraft is intended for cargo delivery to the places which are difficult of access for other means of transport.



Cabin seats are easily removable, thus allowing quick aircraft conversion into cargo transport version.

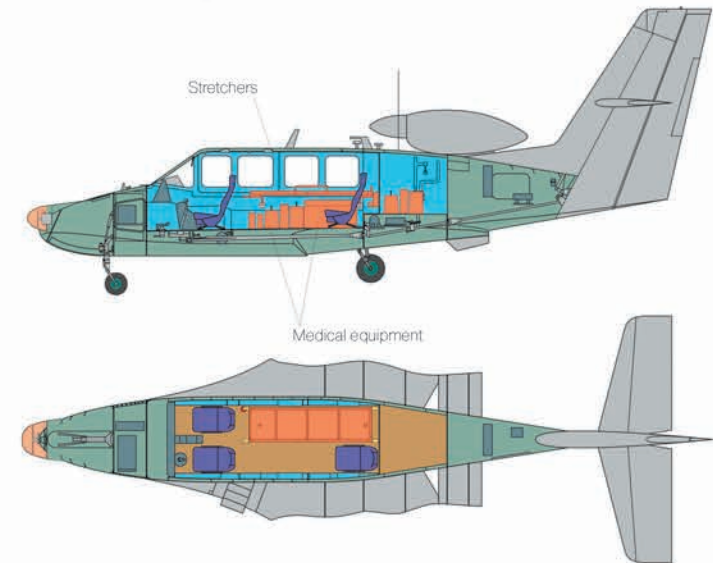
## FIRE-FIGHTING VERSION

Fire-fighting version of the aircraft is intended for patrolling the woodland and extinguishing forest fire at its initial stage. In this version the aircraft is capable of filling the tanks with water while planing on water surface



## SANITARY VERSION

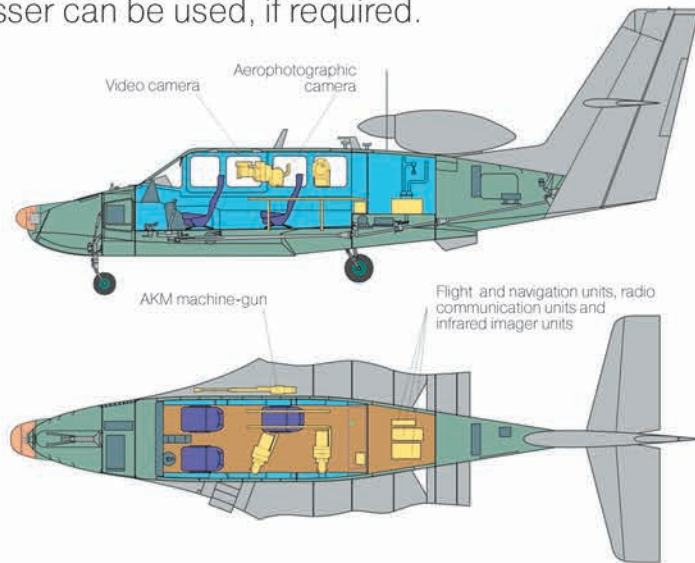
Sanitary version of the aircraft is intended for delivering the qualified medical personnel to the areas difficult of access and for evacuating the patient to the hospital.



Loading of injured person on a stretcher for further Be-103 evacuation.

## PATROL VERSION

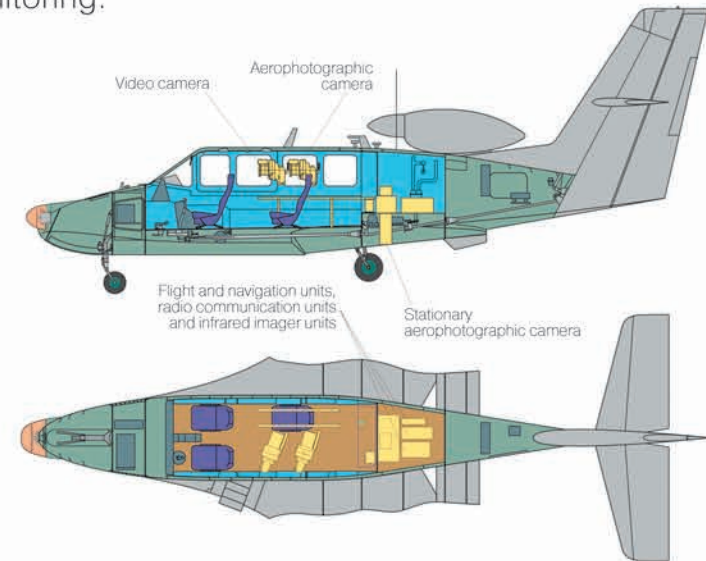
Amphibious aircraft is capable to detect a trespasser with exact determination of its location, to alight on water in the close proximity to the trespasser in order to detain him by sending the special group. Light armament against the trespasser can be used, if required.



The amphibious airplanes are outstanding means for rescue missions in the sea as they are able to deliver fast and directly to the place of accident occurrence the rescue equipment, life rafts and to pull victims from the water and to provide medical assistance on site.

## ECOLOGY MONITORING VERSION

Amphibious aircraft is a universal means for prompt elimination of mineral oil pollution in the sea and for water areas ecological monitoring.



**Beriev Aircraft PJSC**

1 Aviatorov Square  
Taganrog, 347923, Russia  
tel.: +7 (8634) 39-09-01  
fax: +7 (8634) 64-74-34  
e-mail: [info@beriev.com](mailto:info@beriev.com)  
[www.beriev.com](http://www.beriev.com)

# Be-103