



SEARCH & RESCUE: ULTIMATE OPERATIONABILITY

## ES-108 MARINE EKRANOPLAN-RESCUER\*

Light-weight marine ekranoplan for Search & Rescue operations in coastal regions



\* Not a military or dual-use good (Expert evidence № 001/03/34-16 from 13.07.2016).



# ES-108



Cruising flight



End plate mooring

## MULTI-PURPOSE MARINE EKRANOPLAN FOR SEARCH & RESCUE OPERATIONS IN COASTAL REGIONS\*

### MAIN CHARACTERISTICS

#### Overall dimensions:

Length, m.....	16,3
Width, m.....	10,1
Height, m.....	4,6

Full-load draught, m.....	0,6
Displacement (takeoff weight), t.....	4
Crew, pers.....	2
Passengers, pers./ cargo, kg.....	12 /1400
Maximum speed, km/h.....	200
Cruising speed, km/h.....	185
Takeoff speed, km/h.....	150
Displacement mode speed, km/h.....	20
Cruising flight height, m.....	1
Full-load range, km.....	600

#### Seaworthiness:

takeoff / landing, m.....	1
flight, m.....	1,5
displacement regime, m.....	2,2

#### Powerplant:

Engine, gasoline, power, hp....	1 x Chevrolet LSX454, 620
Maneuvering engine, hp.....	40
Fuel tank volume, liters.....	800**
Fuel consumption in cruising mode, kg/h.....	60



360-deg visibility for search operations and mooring maneuvers

Bow-rail for comfortable loading/unloading

Fender guard for mooring

Panoramic LED searchlight suitable for sectorized work

Walk-around deck for comfortable loading/unloading and maintenance

4 doors for providing a multi-functional cabin

Eight-blades propeller reduces the noise level

Single powerplant on the basis of automotive type engine reduces operational costs

Wheel chassis for exiting on a hard surface

Fender guard for mooring

# FASTER THAN ANY SHIP, CHEAPER THAN ANY AIRCRAFT



All-round transparency provides 360-deg searching visibility



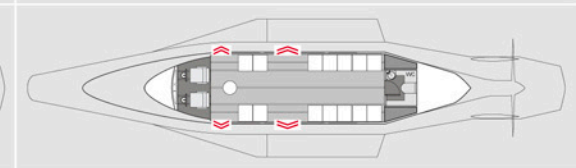
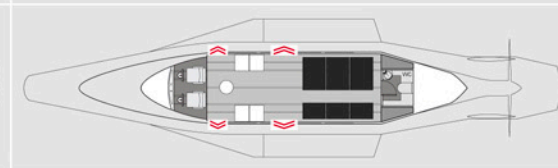
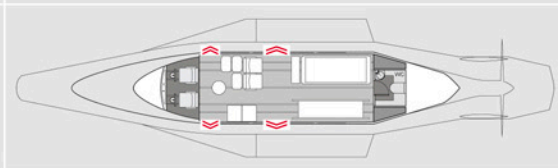
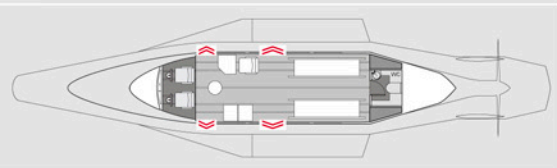
Intensive cure unit allows to give emergency resuscitation



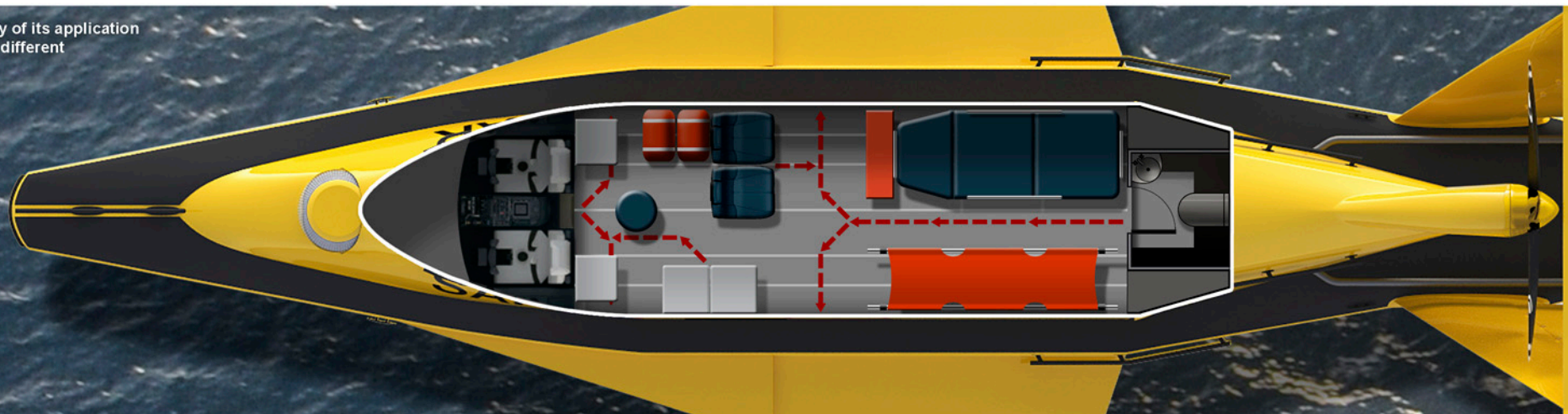
Cabin can be converted into the cargo module for survival equipment delivery



Control cabin for two crew members is equipped with modern navigational equipment



Cabin design implies versatility of its application and ability to modify cabin for different search & rescue tasks

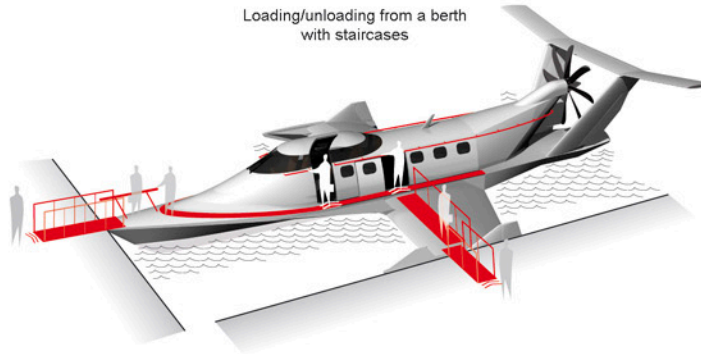


\* Not a military or dual-use good (Expert evidence № 001/03/34-16 from 13.07.2016).  
\*\* When the cabin is fully loaded only 200 liters of fuel are available.

Loading/unloading on water with rafts when mooring is not possible



Loading/unloading from a berth with staircases



Loading/unloading from a hardstand with ladders



### SAFETY

**Fire prevention facilities:**

Engine room is isolated with A-30 class fireproof wall;  
Automatic fire alarm and fire suppression system;  
Fire extinguisher, fire bucket, aerosol fire suppression system;  
Emergency lighting system.

**Dehumidifying system:**

Flood-and-drain system;  
Automatic electric motor driven pump, portable hand pump.

**Lifesaving equipment:**

Life vests for all passengers including children;  
Life rafts for all passengers and crew.

**Signal lights and signaling system:**

Navigational lights in accordance with IRPCS requirements;  
Search and Rescue Transponder (SART);  
Red parachute flares; buoyant smoke signals; red hand flares;  
Emergency Position Indicating Radio Beacon.

### OPERATION

**Control cabin equipment (radio and navigation):**

Magnetic compass;  
Gyro compass;  
VHF radio with Digital Selective Calling (DSC);  
Electronic Chart Display and Information System (ECDIS);  
Radar;  
GSM antenna.

**Equipment:**

Ability to install an intensive care unit  
Panoramic LED searchlight suitable for sectorized work  
Amortized take-off and landing gear (hydroski);  
Wheel chassis (for exiting on the equipped with a hard surface and slopes up to 7°);  
Anchor with anchor winch;  
Foldable staircases for unloading on a hardstand;  
Doors: 2 swing doors + 2 slide doors;  
Railings for movement around the deck;  
Deck is covered with nonslip coating;  
Body: combination of composite materials aluminum alloy;  
Ventilation, heating and conditioning system;  
Demountable lavatory.

Transportation to the operation area is carried out with marine transport.

### EXAMPLE OF OPERATIONAL COVERAGE



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