

A low-angle, upward-looking shot of several modern skyscrapers with glass facades reaching towards a clear blue sky. In the center-left, a rescue capsule with a red, white, and blue striped canopy is suspended in the air. The text 'SPARS®' is overlaid at the top in a large, white, sans-serif font.

SPARS®



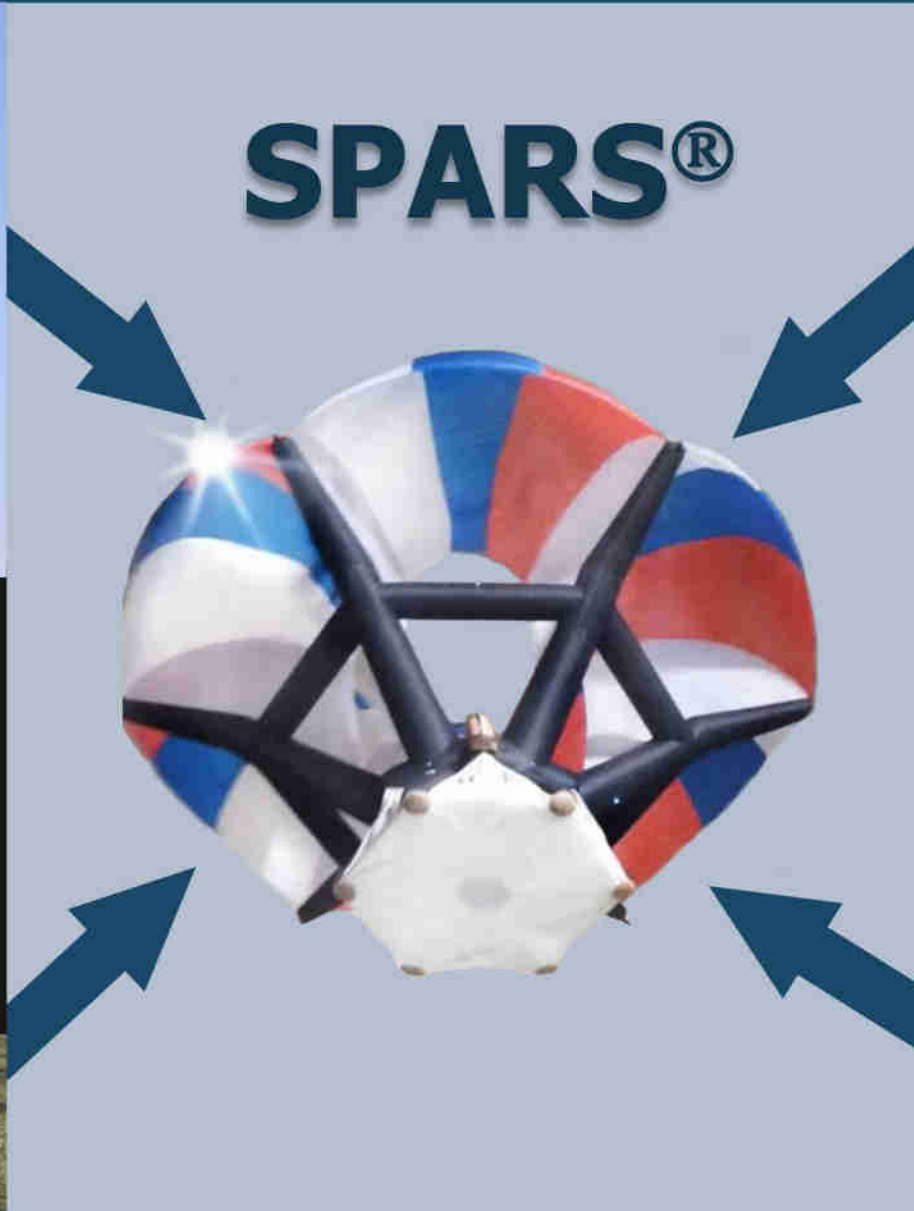
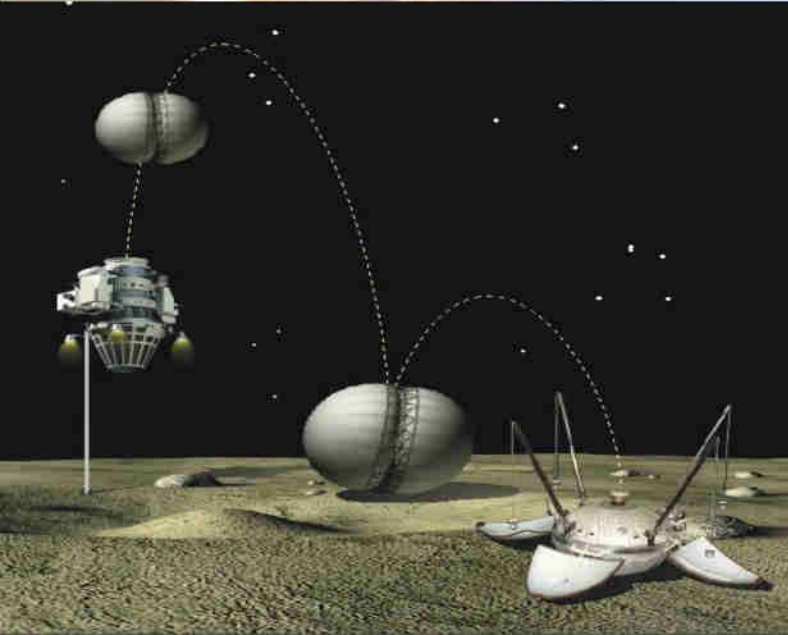
FOREFRONT HIGH RISE EMERGENCY ESCAPE & RESCUE SOLUTION

PROBLEM



Globally on the market there are no effective and fast methods to save ordinary people from heights of more than 50 meters

AEROSPACE TECHNOLOGIES



SOLUTION



SPARS® BRAND NEW TYPE OF ESCAPE & RESCUE PNEUMO-TRANSFORMABLE PARACHUTING SYSTEMS



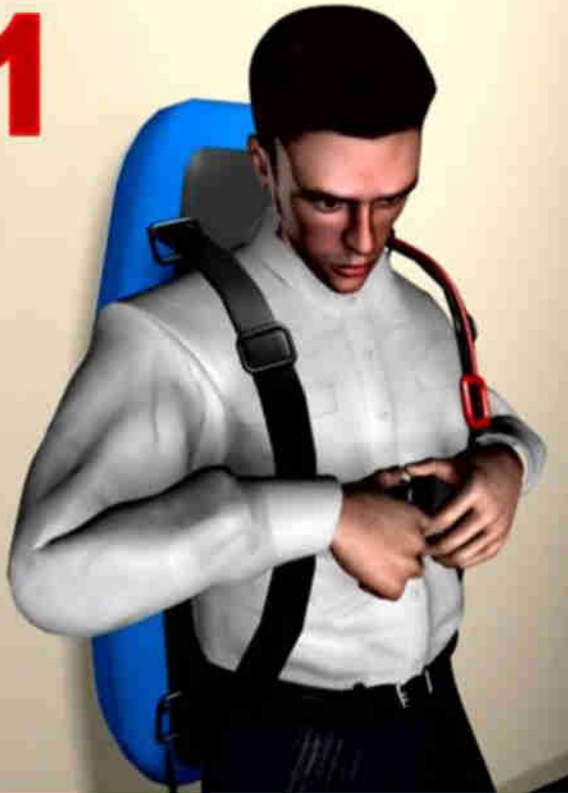
- **USER IS AN ORDINARY PERSON**
- **WEIGHT 45 ÷ 150 KG (+WITH CHILD <35KG)**
- **AGE 18 ÷ 75 YEARS**
- **APPLICATION HEIGHT - 5 ÷ 1000 M**
- **REUSABLE**
- **SOFT LANDING ON ANY SURFACE OR WATER**



TACTIC OF USAGE



1



**PUT DEVICE
on THE BACK**

2



**START
INFLATION**

3



**AUTOMATIC
ESCAPE**

4



**SMOOTH
DESCENT and
LANDING**

DEVELOPMENT STATUS



SPARS® GENERAL SPECIFICATIONS



General Specifications

1. Total Assembly Mass – 25 kg
2. Rescue Payload Mass – 45÷150 kg
3. Descent Elevations – 5÷1000+ m
4. Landing Velocity – 5,2÷7.1 m/s
5. Landing Angle – $< 30^\circ$
6. Footboard Barrier Elevation - 1,5 m
7. Descent Time – 3÷200 s
8. Launch Initialization Time – 10÷12 s
9. Gas Filling System – air-injection type, 2 cascade, autonomous
9. Inflated Gas – Air, 3000 Psi, 4 Lt
10. General Dimensions:
 - a. In Assembly Mode - 900x450x350 mm
 - b. In Descent Mode - 6500x2700 mm (without chute)

Descent Actual Personal Affecting External g-Loads

Actual Launch g-Loads:

Acceleration directions -

«back-chest» – up to 2÷3 g

Actual Landing Impact g-Loads:

Acceleration directions -

«chest-back» – up to 4÷8 g

«side-side», «head-pelvis» - up to $\pm 4g$

Acceleration Exposition Time – less than 0,5 s

Acceleration Growth Velocity – less than 500 1/s

Potential Users

Untrained Civilian Personnel age 18-75



COMPETITORS



EXTERNAL LIFT

Escape Rescue Systems Ltd.
(Israel)

- **stationary on the building**
- **use by rescuers only**
- **cost from € 2,000,000**



SOS PARACHUTE

Parafly S.A. (USA-SPAIN)

- **paratrooper + assistant**
- **above the 20th floor only**
- **hard landing on legs**
- **cost from € 5000**

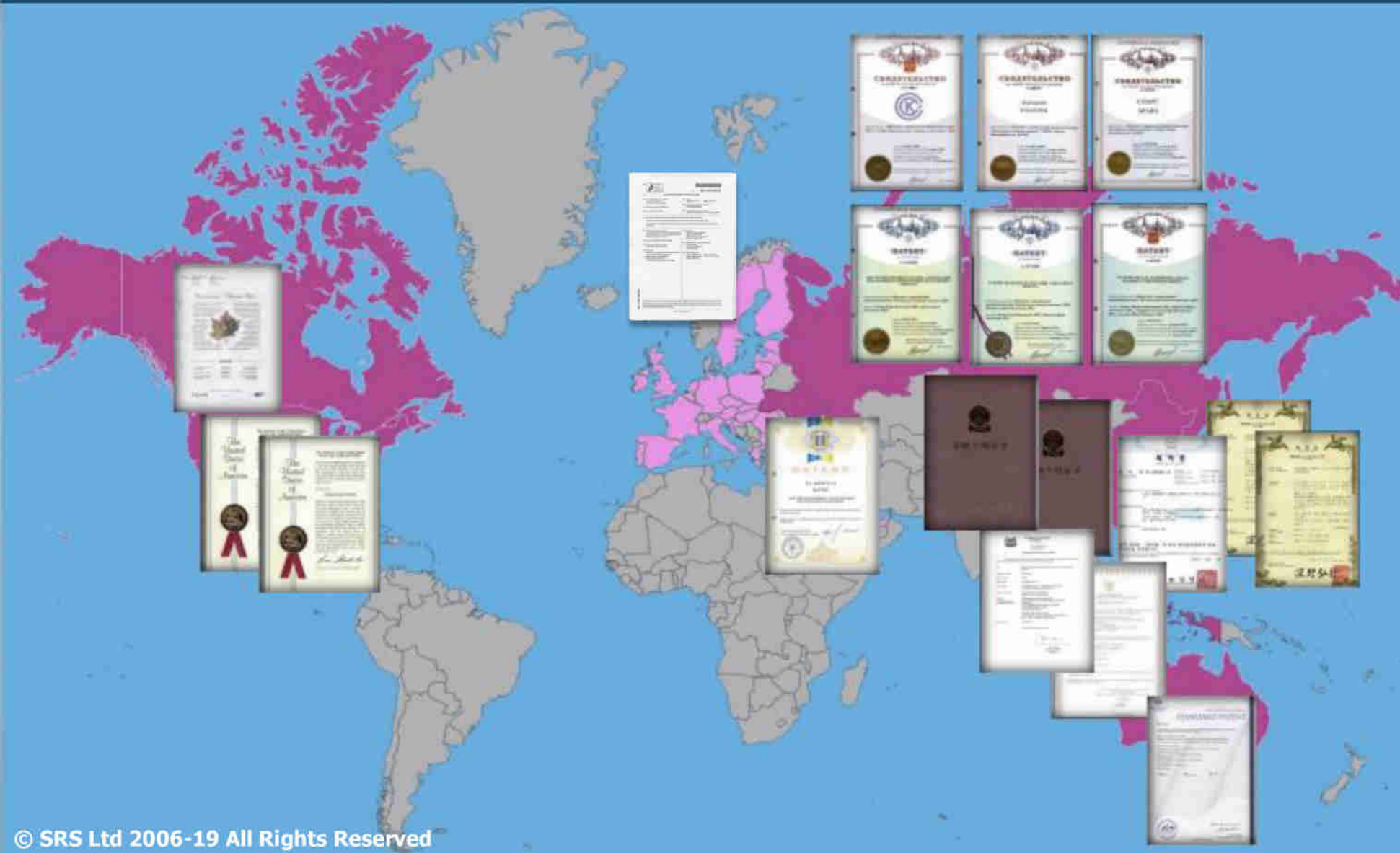


MOBILE CHUTE

BrontoSkyLift (Финляндия)

- **entrance to the building**
- **max to the 30th floor**
- **use by rescuers only**
- **cost from € 100,000**

PATENTS AND TRADEMARKS



41
patents

19
countries

5
trade marks

know-how

CONTACTS



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