

Manned airship

ADB 3-3

#### Airship do Brasil



- - First manned Airship built in Brazil
  - Finalist of National Innovation Award 2016-2017



Economia & Negócios O ESTADO DE S. PAULO

#### Dirigível nacional estreia nos ares

66 A brasileira Airship empresa do grupo Bertolini, um dos maiores do ramo de transporte, realizou nesta segunda-feira, 24, em São Carlos (SP) o voo inaugural do primeiro dirigível tripulado fabricado na América Latina.



Company: Ο

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✓ Aeronautical Industry that belongs to the the **BERTOLINI ENTERPRISES** 

San Tan

- ✓ Headquartered in São Carlos (state of São Paulo), with an office also in Brasília (DF)
- **Objectives:** 0

Brasília

São Carlos

To develop, manufacture, comercialize and operate Lighter than Airs (LTA) aircrafts



25 de Julho de 2017

# Applications

- Advertising
- Aerial Geophysics and Data Collection
- Surveillance
- Pulverization
- Inspection of Electric, Gas and Oil Lines

Flightseeing

# Pulverization and precision agriculture



## Public security

Airship do Brasil



## Surveillance and border control



## Advertising and flightseeing



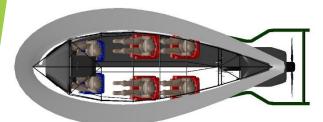


# **Aerial Geophysics**



## **Inspection of Electric Lines**

### Características



Length: 160,1 ft. (48,8 m) Width: 41,7 ft. (12,7 m) Height: 56,8 ft. (17,3 m) Helium volume: 138,000 ft<sup>3</sup> (3908 m<sup>3</sup>) Maximum weight: 9288 lbs (4213 kg); Empty weight: 5893 lbs (2673 kg); Payload at sea level: 1 tonne Maximum in-flight weight variation: 661,4 lbs (300 kg) Place for 1 pilot e 5 passengers

## Landing area

Simplified infrastructure Landing area: Ø985 ft Mooring area: Ø330 ft

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Airship do Brasil

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### Operation

Service ceiling: 9.000 ft Power: 300HP Speed: 37 knots (70 km/h) Fuel: Aviation gasoline Consumption: 60 L/h Tank: 400 L



# Materials

- Polyester envelope with polyurethane coating
- Steel truss gondola covered by fiberglass
- Aluminum fins and ruddervators
- Top technology avionics



## Flight

- Allows slow and steady flight;
  - Great stability;
- Fast and easy landing and take
- Airship do Brasil off assisted by Ground Crew.



Eletrobras

BNDES RD ANEEL

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#### Prerequisite:

Pilot

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- Licensed Comercial Pilot
- Attend the Airship Piloting Habilitation Course

#### Course:

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- 3 months
- 60 flight hours

### Airship do Brasil Indústria e Serviços Aéreos Especializados S.A.

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