

TECHNICAL FEASIBILITY STUDIES

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| Airship | ETERNAUS | Model | 28-168/32,5 Mercur (H2) |
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DATASHEET

BASIC DIMENSIONS

| | | |
|-----------------------|---------|-----------------------|
| Total Length | C = | 168 m |
| Maximum Diameter | Ø = | 28 m |
| Maximum Cross Section | St = | 615 m ² |
| Outer Surface | Sext. = | 11.940 m ² |
| Displaced Volume | Vd. = | 71.790 m ³ |
| Maximum Thrust | E = | 92.700 Kg |

CONSTRUCTIVE INFORMATION

| | | |
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| Material | | ALLOY 2090-T83 SHEET |
| Plate Thickness | e= | 0,6 mm |
| Specific Density | & = | 1,6 Kg/m ² |
| & rupture (traction) | &t = | 70 Kg/mm ² |
| & admissible | &adm.= | 21 Kg/mm ² |
| Transverse Prestressing | Fpt = | 10 Kg/mm ² |
| Longitudinal Prestressing | Fpl = | 5 Kg/mm ² |
| Operating Pressure | Po = | 420 mmca |
| Maximum Allowable Pressure | Pmáx. = | 700 mmca |
| External Resistance Compression | Rcp = | 420 kg/m ² |
| Operating Speed Limit | Vlo= | 280 Km/h |
| Weight of the Superstructure | Ps = | 25.560 kg |
| Accessories Weight | Pa = | 12.500 kg |
| Gas Weight | Pg = | 7.100 kg |
| Fuel Weight | Pc = | 15.000 kg |
| Load Capacity | Cc = | 32.500 kg |
| Operating Total Weight | Po = | 60.200 kg |
| Displacement Factor | Fd = | 0,0204 x vel. ³ PS |
| For a speed 50 Km/h, pot= 55 HP | Autonomy= | 190.000 Km |
| For a speed of 70 km/h, pow.= 150 CV | Autonomy= | 100.000 Km |
| For a speed of 100 km/h, pow.= 450 CV | Autonomy= | 47.000 Km |
| For a speed of 140 km/h, pow.= 1.200CV | Autonomy= | 25.000 Km |
| For a speed of 210 km/h, pow.= 4000 CV | Autonomy= | 11.000 Km |

MAIN USES:

Available area on 02 floors = 1,400 m²;

Winged Mega Yacht or Luxury Yacht. Considering that 35-70 users will have at their disposal complete suites or individual offices / sleeping rooms, dining rooms, living rooms, conference rooms, fitness centers and entertainment for work, leisure, recovery and stays. more than pleasant, the application of this type of airship already presents great differential with any Yacht available today and at an already low cost for the considered standard.

THE ONLY SEVEN-STAR ITINERANT HOTEL OF THE WORLD (look at the power point in addition)

PANORAMIC the most lucrative way to become an expressive investment return from touristic flights. (specially during football world cups and Olympic games)

Aircraft for 300 passengers without the need for an airport (can take people and cargo off and on anywhere, including in forests, north and south Pól and much more...

Special recovery clinics and traveling hospitals.

Itinerant offices;

Traveling shopping centers;

Hotel (7*) for medium-sized VIP groups;

Special lifting work to support and assemble wind farms, in building construction and in particular taking prefabricated units to be mounted on trees in the jungle, in addition to special transport of inputs to strategic points on the Amazon forest;

Rapid fire-fighting unit (30 m³ of extinguishing agent);

Rescue and rescue units in disasters and fires;

Reforestation with transfer of smaller trees (forests);

Sustainable wood exploration unit without affecting the balance of the forest, removing selected trees without cutting down those in the surrounding area or creating clearings;

Special sightseeing tours (Panoramic) will be a unique way to attract tourists from all countries and create huge revenues for tourism by setting up hotels or lodges in giant kapok trees in the forest.