

TECHNICAL FEASIBILITY STUDIES

Airship	ETERNAUS	Model	45,4-268,5-190 "Hercules" (H2)
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DATASHEET

BASIC DIMENSIONS			
Total Length	C =		268,5 m
Maximum Diameter	Ø =		45,4 m
Maximum Cross Section	St =		1620 m ²
Outer Surface	Sext. =		31.000 m ²
Displaced Volume	Vd. =		302.000 m ³
Maximum Thrust	E =		390.000 Kg
CONSTRUCTIVE INFORMATION			
Material			ALLOY 2090-T83 SHEET
Plate Thickness	e=		0,8 mm
Specific Density	& =		2,1 Kg/m ²
& rupture (traction)	&t =		70 Kg/mm ²
& admissible	&adm.=		21,0 Kg/mm ²
Transverse Prestressing	Fpt =		10 Kg/mm ²
Longitudinal Prestressing	Fpl =		5,0 Kg/mm ²
Operating Pressure	Po =		350 mmca
Maximum Allowable Pressure	Pmáx. =		560 mmca
External Resistance Compression	Rcp =		350 kg/m ²
Operating Speed Limit	Vlo=		210 Km/h
Weight of the Superstructure	Ps =		77.000 kg
Accessories Weight	Pa =		45.000 kg
Gas Weight	Pg =		30.000 kg
Fuel Weight	Pc =		28.000 kg
Load Capacity	Cc =		210.000 kg
Operating Total Weight	Po =		180.000 kg
Displacement Factor	Fd =		0,06823 x vel.3
For a speed of 50 km/h, power 182 Hp	Autonomy=		109.000 Km
For a speed of 70 km/h, power 500 Hp	Autonomy=		56.000 Km
For a speed of 100 km/h, power 1.460Hp	Autonomy=		27.500 Km
For a speed of 140 km/h, power 4.000Hp	Autonomy=		14.000 Km
For speeds of 210 km/h, power 13.500Hp	Autonomy=		6.300 km

MAIN USES:

- ☒ A fire extinguishing unit for any forest, industrial, building, museum, refineries and other fires
- ☒ It will substitute with big technical and commercial advantages the work lost with the Antonov
- ☒ With an useful area in 03 floors of 4,500 m²...
- ☒ You can already consider the possibility to get a small, winged palace
- ☒ A mega yacht, an itinerant casino
- ☒ A Small Itinerant Shopping Mall
- ☒ An unique and excellent recovery clinic
- ☒ A very special flying shelter for those people that works all its life and now have the chance to profit the end of their life traveling on the skies appreciating all over the world with comfortable assistance
- ☒ A traveling hospital to meet affected locations, and or specialized medical services.
- ☒ A 7-star traveling hotel for 350 couples
- ☒ A super transport that does not need roads nor landing strips and can take and deliver freights everywhere in the world with weights up to 210 tons
- ☒ A super crane for lifting up to 210 tons of loads like transformers, hydroelectric turbines, wind turbines taking them in its factory and mount them everywhere on the globe, even at the top of mountains without the need of access roads.
- ☒ A super concrete transport unit that can pour concrete in the highest floors' of 1000 meters or more buildings without the requirement of special pumps.
- ☒ An aircraft to carry 1,400 people in first class or 700 people in individual booths, with cinema and restaurants
- ☒ A special tool for reforestation and agriculture services
- ☒ Transport of agricultural surplus to the north and south poles /Alps/Andes/ Rockies/Himalayas and/or grains to desertified and dry areas, creating an important reserve for humanity.