

HYBRID AIRSHIPS

THE ROAD NOT NEEDED

LOCKHEED MARTIN 
We never forget who we're working for®



TODAY'S METHODS

THE NEW FRONTIER

ENABLING A TRANSPORTATION REVOLUTION

Why Hybrid Airships

More than two-thirds of the world's land area and more than half the world's population have no direct access to paved roads. As you move farther away from infrastructure, cost, time and the safety of transport becomes more of a challenge. Hybrid Airships will enable affordable and safe delivery of heavy cargo and personnel to virtually anywhere – water or land, in normal flying weather conditions – with little to no infrastructure. Hybrid Airships also burn much less fuel than conventional aircraft. For many projects, the combination of these capabilities makes Hybrid Airships the best economic choice and an environmentally friendly alternative to traditional modes of transportation.

Proven Technology

The technologies required for Hybrid Airships are mature and have been demonstrated in-flight. In 2006, the half scale prototype vehicle, P-791, flew in Palmdale, Calif. and successfully completed all flight test objectives. The two-man proof-of-concept featured fully functional digital flight controls and an air cushion landing system (ACLS).



HYBRID
ENTERPRISES

www.hybridhe.com

Anatomy of an Airship

Simple

- Design focus – maximize simplicity and toughness
- Large flexible capacity with outsized capability
- Built for cargo

Safe

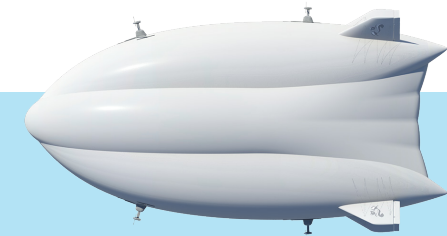
- Low maneuvering speed/hover
- Helium lift is continuous (no stall)
- State-of-the-art flight control, navigation and avionics

Sustainable

- Quiet on ground and in air
- Low environmental impact
- Minimal infrastructure
- Low fuel burn and carbon emissions

Savings

- Reduced infrastructure
- Lower fuel cost
- Superior availability – operates in all seasons



HYBRID AIRSHIPS

Payload	Up to 21,000 kg/47,000 lbs 19 passengers
Range	1400 nm
Cruise Speed	60 kts
Cargo Bay	3 x 3 x 1 8 m/10 ft x 10 ft x 60 ft
Fuel Capacity	10,000 lbs
Field Requirements	730 m/2400 ft
VTOL	150 m/500 ft