



TITAN 70/490_1000 (H₂)

Technical Datasheet & Strategic Applications

ETERNAUS Airship Division

(International aerospace standard tone — premium executive edition)

INTRODUCTION — A New Class of Atmospheric Megastructure

The ETERNAUS Airship Division engineers next-generation atmospheric megastructures that merge aerospace precision, ultra-luxury hospitality, and industrial-grade performance. Designed for sovereign fleets, national airlines, global logistics operators, and high-net-worth private clients, the Titan represents the pinnacle of long-range aerial capability.

Developed under international aerospace standards, the Titan integrates hydrogen propulsion, multi-deck architecture, and extreme-range endurance to deliver a new class of aerial mobility: silent, emission-free, runway-independent, and capable of transporting passengers, cargo, and infrastructure at unprecedented scale.

Whether configured as a flying palace, a mass-transport platform, a strategic logistics asset, or a high-precision industrial tool, the Titan is engineered to operate where conventional aviation, maritime transport, and ground infrastructure cannot. This Technical Datasheet provides the full engineering specifications, structural parameters, and operational performance required by aerospace authorities and engineering teams — while also presenting the strategic applications valued by CEOs, sovereign clients, and global investors.

1. Basic Dimensions

- **Overall Length:** 490 m
- **Maximum Diameter:** 70 m
- **Maximum Cross-Section:** 3,848 m²
- **External Surface Area:** 86,130 m²
- **Displaced Volume:** 1,308,700 m³
- **Maximum Thrust:** 1,700,000 kg

2. Structural Information

- **Material:** ALLOY 2090-T83 aerospace-grade sheet
- **Plate Thickness:** 1.2 mm



- **Specific Density:** 3.2 kg/m²
- **Tensile Strength:** 70 kg/mm²
- **Allowable Stress:** 21 kg/mm²
- **Transverse Prestressing:** 10 kg/mm²
- **Longitudinal Prestressing:** 5 kg/mm²
- **Operating Pressure:** 350 mmca
- **Maximum Allowable Pressure:** 490 mmca
- **External Compression Resistance:** 350 kg/m²

3. Operational Performance

- **Operating Speed Limit:** 210 km/h
- **Superstructure Weight:** 280,000 kg
- **Accessories Weight:** 112,000 kg
- **Gas Weight:** 130,000 kg
- **Fuel Weight:** 140,000 kg
- **Payload Capacity:** 1,040,000 kg
- **Total Operating Weight:** 662,000 kg
- **Displacement Factor:** 0.1582 × vel³

Range by Speed

- **70 km/h — 1,100 HP:** 115,000 km (infinite with solar energy)
- **100 km/h — 3,400 HP:** 60,000 km
- **140 km/h — 9,500 HP:** 30,000 km
- **180 km/h — 20,000 HP:** 18,000 km
- **210 km/h — 31,500 HP:** 11,500 km

MAIN USES — TITAN (H₂)

(Structured for sovereign clients, airlines, UHNWIs, and industrial operators)

The Titan is a six-deck atmospheric megastructure engineered for ultra-luxury passenger transport, hyper-heavy logistics, industrial deployment, and strategic national operations. With over one million kilograms of payload capacity and



intercontinental endurance, it establishes a new category of global aerial capability.

1. Ultra-Luxury Passenger Transport & Aerial Hospitality

(Top priority for Emirates, Etihad, Qatar Airways, Saudia, Oman Air, Royal Courts)

- Up to **5,000 passengers** in ultra-luxury configuration.
- Six panoramic decks with lounges, restaurants, spas, gardens, and entertainment areas.
- Private **flying palace suites** for royal families, heads of state, and UHNWIs.
- Zero-emission hydrogen propulsion for silent, vibration-free travel.
- Ideal for premium routes such as Dubai–London, Abu Dhabi–Paris, Doha–Singapore, Riyadh–New York.
- Creates a new segment above First Class — **Aerial Grand Hospitality**.

2. Airborne Palaces & Royal Flying Residences

- Six-deck airborne palace with up to **28,000 m²** of interior space.
- Diplomatic salons, royal chambers, security command centers, and private decks.
- Designed for sovereign mobility, state visits, and global leadership missions.
- Unmatched privacy, autonomy, and prestige.

3. Hyper-Heavy Cargo Transport & Industrial Operations

- **1,040 tons** of payload capacity.
- Transport of **chemical products**, industrial reagents, fuels, and sensitive materials.
- Movement of **super-machines, turbines, mining modules, offshore equipment**.
- Direct point-to-point delivery without ports, roads, or runways.
- Ideal for **Aramco, ADNOC, Qatar Energy, Petrobras, Vale, BHP, Rio Tinto**.

4. Strategic Logistics & Chemical Transport

- Safe transport of hazardous chemicals and high-value industrial compounds.



- Delivery to remote refineries, offshore platforms, deserts, and polar regions.
- Strategic assets for national energy companies and defense ministries.

5. Fire Fighting & Environmental Protection

- Up to **1,000,000 liters** of extinguishing agent.
- Control of megafires in forests, industrial zones, and urban areas.
- Environmental protection missions in sensitive ecosystems.

6. Mining, Energy & Infrastructure Deployment

- Transport of minerals (gold, silver, copper, nickel, lithium).
- Deployment of oil wells, drilling platforms, and modular energy systems.
- Installation of industrial structures in mountains, jungles, deserts, and polar regions.
- Production of hydroelectric energy by cloud condensation (special configuration).

7. Humanitarian & Disaster Response

- Mass transport of food, water, medical supplies, and emergency equipment.
- Evacuation of large populations from disaster zones.
- Configurable as a **mega airborne hospital**.

8. Airborne Aircraft Carrier (Defense Configuration)

- Deployment of up to **20 fighter aircraft**.
- Independent of runways or naval fleets.
- Strategic mobility for border protection and rapid-response missions.

9. Compact Airborne Shopping Hub

- A lighter version of the Atlas airborne mall concept.
- Ideal for remote regions, islands, deserts, and major international events.