

Vantage Airship Manufacturing Co., Ltd. (Vantage) hybrid airships

Peter Lobner, Updated 21 December 2020

Vantage has been working in Shanghai, China in the airship field for nearly 30 years, primarily developing and manufacturing non-rigid manned airships, remote-controlled non-rigid airships and tethered aerostats. Non-rigid airships currently in production are the CA-80, CA-150, CA-180 and CA-300 manned airships and a variety of remotely controlled blimps. In addition, Vantage is developing designs for two large hybrid “transportation airships.”

The Vantage website is here: <http://www.vantageship.com/en/>

Vantage is developing designs for two large hybrid (“combined loading”) transportation airships. Technical parameters for these hybrid airships are listed below:

CA-60T

- Length: 165 meters (514 ft)
- Width: 80 meters (262 ft)
- Height: 48 meters (157 ft)
- Airbag volume: 180,000 m³ (6,356,640 ft³); air ballonnet volume 26%
- Payload: 60 metric ton (66 short ton)
- Cabin dimensions: 30 L x 8 W x 4 H meters (98.4 x 26.2 x 13.1 ft)
- Speed: 120 kph (75 mph) cruise; 150 kph (93 mph) maximum
- Range: 3,000 km (1,864 miles)
- Practical ceiling: 3,000 meters (9,843 ft)

CA-200T

- Length: 220 meters (722 ft)
- Width: 113.8 meters (373 ft)
- Height: 66 meters (217 ft)
- Airbag volume: 600,000 m³ (21,188,800 ft³); air ballonnet volume 26%
- Payload: 200 metric ton (220 short ton)
- Cabin dimensions: 60 L x 12 W x 8 H meters (196.9 x 39.4 x 26.2 ft)
- Speed: 120 kph (75 mph) cruise; 160 kph (99 mph) maximum

- Range: 3,000 km (1,864 miles)
- Practical ceiling: 3,000 meters (9,843 ft)

The general configuration of the Vantage hybrid airship appears to be similar to the Airlander 10 and 50 being developed in the UK by Hybrid Air Vehicles (HAV) and the Lockheed Martin LMH-1 being developed in the US.



Concept graphic showing the general configuration of a CA-60T / CA-200T airship. Source: Vantage

It has been reported that Vantage intends to pursue development of these hybrid airships with international partners. The schedule for first flight of a Vantage hybrid airship has not been announced.