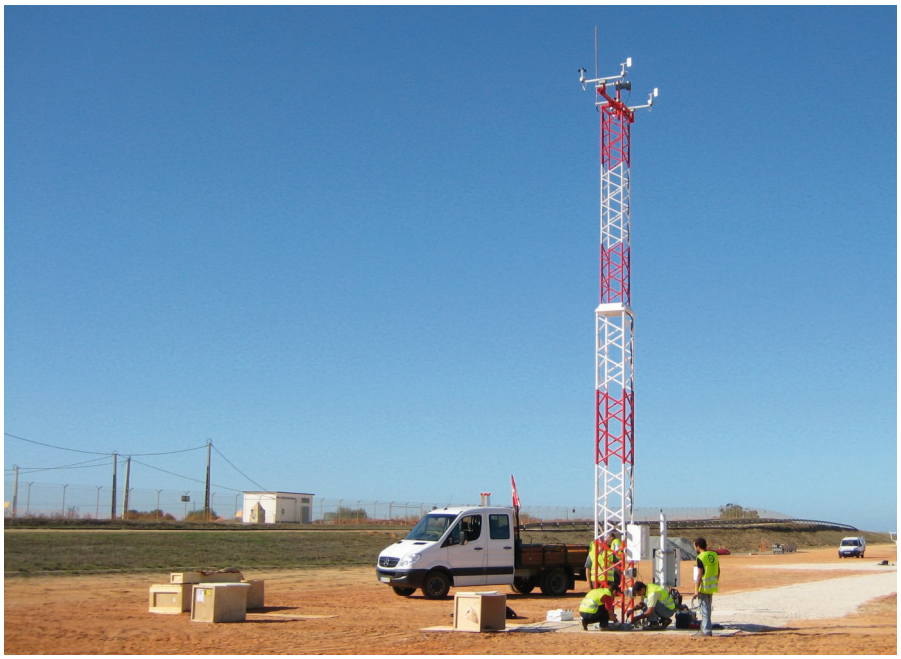
Frangible Lattice Mast DKE200



Features

- Meets ICAO and FAA standards
- Built-in frangibility
- Fully impact tested
- Transparent to electromagnetic radiation – no interference with airport communication equipment
- Optional passive air terminal protects sensors and other equipment
- Composite structure provides superior air terminal insulation

Vaisala Frangible Lattice Mast DKE200 is a light-weight and rigid mast especially suited for aviation use. The mast complies with ICAO and FAA standards and is compatible with all Vaisala weather stations.

Fully Compliant with Safety Specifications

DKE200 mast materials comply with aviation safety specifications and the mast is impact tested according to the ICAO Aerodrome Design Manual Part 6, chapter 5 and FAA AC 150/5345-45C, section 4.

DKE200 mast is rigid and strong but lightweight, and its composite structure makes it brittle in case of sudden impact. In collision, the mast breaks at the point of impact without causing hazard to the aircraft.

Robust and Corrosion-resistant Build

DKE200 mast withstands wind speeds of up to 60 m/s (134 mph). The composite materials resist fatigue, corrosion, and other effects of weather and temperature, making the masts also suitable for marine and other corroding environments.

As composite materials do not distort electromagnetic signals of the airport communications equipment, the need to calibrate instrument landing system (ILS) antennas is reduced.

DKE200 mast is maintenance free.

Custom Options for All Kinds of Airports

The mast is supplied with a bottom hinge, allowing maintenance from a crane truck without lowering the mast. A center-hinged version is also available, allowing the mast to be lowered by a single maintenance worker for easy maintenance of the sensors and other equipment.

An optional passive air terminal is available for protecting sensors and other equipment. The composite materials of the mast provide superior air terminal insulation.

Technical Data

Operating Environment

Maximum wind load	60 m/s (134 mph)

Mechanical Specifications

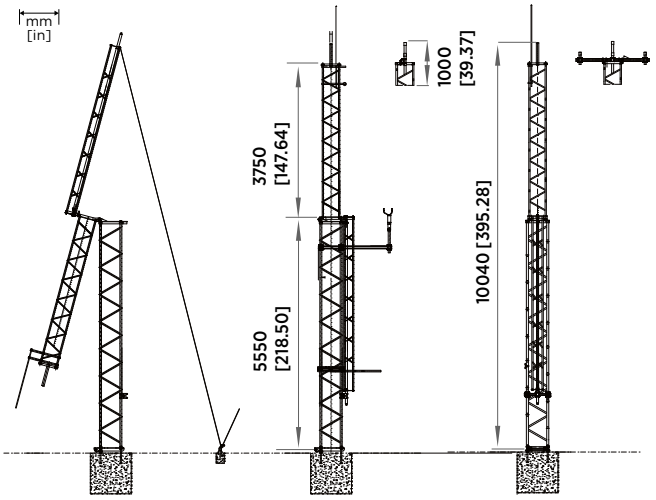
Height, assembled	10 m (32 ft 10 in)
Dimensions	
Upper mast module (H × W × L)	400 × 400 × 3750 mm (15.75 × 15.75 × 147.64 in)
Lower mast module (H × W × L)	500 × 500 × 5550 mm (19.69 × 19.69 × 218.50 in)
Top frame with spigot (Ø × L)	60 × 1000 mm (2.36 × 39.37 in)

Materials

Main mast assembly	Glass reinforced plastic (GRP)
Top frame and spigot	Aluminum
Base frame and foundation kit	Galvanized steel
Crossbar, sensor support tubes, and joining element	Glass-reinforced plastic (GRP)
Sensor support arm at 2-meter (3-feet) height	Aluminum
Painting	Orange (RAL2004) and white (RAL9016) in 7 sections according to ICAO Annex 14 and FAA AC 150/5345-45C. Red (RAL3020) and white (RAL9016) in 7 sections according to ICAO Annex 14.
Packaging	Plywood, suitable for air freight

Compliance

Frangibility Certification	
ICAO	Aerodrome Design Manual Part 6: Frangibility Doc 9157 AN/901 1st edition, 2006
FAA	Advisory Circular (AC) 150/5345-45C



Dimensions

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