



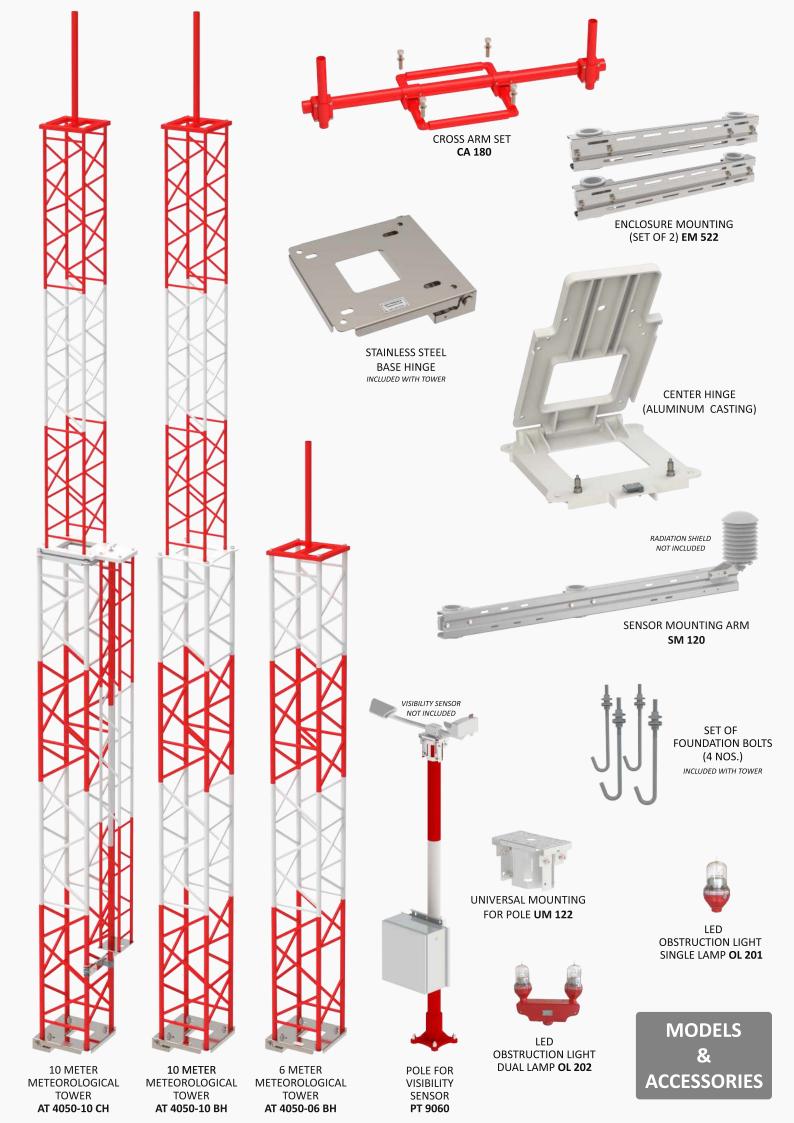
CATALOG 2022

FRANGIBLE TOWERS & POLES FOR METEOROLOGICAL SYSTEMS

Meteorological Towers and Poles in Compliance for Full Impact Testing with ICAO guidelines Aerodrome Design Manual Part-6, chapter 5 and US Department of Transportation, FAA Advisory Circular No 150/5345-45C, April 2007

SGS FRANGIBLE TOWERS (P) LIMITED

SAFE & STRONG



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SGS Frangible Towers Pvt. Ltd. is a leading manufacturer of frangible towers, mast and poles for hoisting weather equipments (AWOS), approach lights, glide path mast etc. for airports. Both lattice and pole type frangible structures are manufactured for various airport applications. The towers and mast are made of fibre glass composites and resins to give frangibility in the products for strength and durability against high wind & jet blast.

Full impact testing was carried in compliance with U.S Department of Transportation Federal Aviation Administration (FAA), advisory circular No 150/5345 45c, section 3.9 and 4.2.5 and International Civil Aviation Organization (ICAO) doc 9157 An/901 part 6, subsections 4.9.20, 4.9.21, and 4.9.22

Successful Frangibility Crash Tested at Narnaul Airport in India and Successfully tested at PMG Technologies in Blainville, Quebec Canada in presence of Intertek FAA approved Test Inspection Agency









STANDARD PRODUCTS

METEOROLOGICAL TOWERS

6 METER TOWER AWOS

10 METER TOWER WITH BASE HINGE
10 METER TOWER WITH CENTER HINGE
POLE FOR VISIBILITY SENSOR

WIND SOCK MAST

5 METER MAST WITH EXTERNAL LIGHTNING

8 METER LIGHTNING WITH EXTERNAL LIGHTNING

3 METER VIGILANCE CAMERA POLE POLES FOR AIRPORT LIGHT APPLICATION

FEATURES

- ✓ STRICTLY COMPLIANCE OF FRANGIBILITY WITH ICAO AND FAA GUIDELINES
- TESTED UNDER THIRD PARTY SUPERVISION
- CORROSION FREE TOWER AND ACCESSORIES
- UV RESISTANT PU PAINT WITH 3 YEAR WARRANTY
- 5 YEARS MANUFACTURING DEFECT WARRANTY ON COMPLETE TOWER
- NO ELECTRO-MAGNETIC INTERFERENCE
- *⋈* FACILITY FOR CUSTOMIZATION
- PROMPT DELIVERIES
- ASSURE DURABILITY
- ✓ LIGHT WEIGHT
- ALL STANDARD INSTRUMENTS MOUNTINGS AVAILABLE

CUSTOMIZED PRODUCTS

CAMERA MOUNTING TOWERS

FRANGIBLE FENCING

MOUNTING FOR SPECIFIC SENSORS

TAILOR MADE FOR SOLAR PANEL MOUNTING

CUSTOMIZED FLOOD LIGHT POLES AND TOWERS

ORDER DETAILS

DESCRIPTION	SPECIFICATIONS	ORDER CODE
6 meter Meteorological Lattice Tower	5.0 meter frangible lattice tower, 1 meter top mounting assembly, Stainless Steel bottom hinge base plate, set of 4 foundation bolts, colour aviation red & white.	AT 4050 - 06 BH
10 meter Meteorological Lattice Tower with base hinge	5.0 meter bottom frangible lattice tower, 4.0 meter top lattice tower, 1 meter top mounting assembly, fixed center assembly, Stainless Steel bottom hinge base plate, Set of 4 foundation bolts, colour aviation red & white.	AT 4050 - 10 BH
10 meter Meteorological Lattice Tower with center hinge	5.0 meter bottom frangible lattice tower, 4.0 meter top lattice tower, 1 meter top mounting assembly, center hinge assembly with accessories, hinge rope set, set of 4 foundation bolts, Stainless Steel bottom hinge base plate, colour aviation red & white.	AT 4050 - 10 CH
Frangible Pole for Visibility Sensors	Frangible pole of variable length, bottom aluminum base, set of foundation bolts, colour aviation red & white.	PT 9060 - 03 BP
STANDARD ACCESSORIES		
Foundation Template	Metallic foundation template.	FT 500
Enclosure Mounting	Universal mounting fixture (Set of 2), mounting bracket & standard mounting nut/bolts kit suitable for all types of enclosure & battery box.	EM 522
Cross Arm	1.8 meter cross arm with vertical sensor mounting assembly suitable for wind speed & direction sensor.	CA 180
Sensor Mounting Arm	1.2 meter aluminum sensor mounting arm with accessories suitable for Temp/Humidity sensor and solar radiation sensor.	SM 120
Pole Mounting	Universal mounting kit for pole suitable for all types of enclosure & visibility sensor.	UM 122
Lightning Arrester Kit	75 cm Copper rod with spool, 50 sq mm 14 meter Copper earthing wire, connecting thimbles, 2 meter ground copper rod/strip.	LA 102
Obstruction Light Single Lamp	LED obstruction light single lamp, Complaint to ICAO (Aerodromes Annexure 14) and FAA - 180, Aviation Red Colour, Selectable flashing rate, AC 110V $^{\sim}$ 220V, Auto light sensing ON/OFF.	OL 201













OL 202

WP 901

COMPLIANCE

LED obstruction light dual lamp, Complaint to ICAO (Aerodromes Annexure 14) and FAA - 180, Aviation

Red Colour, Selectable flashing rate, AC 110V $^{\sim}$ 220V, Auto light sensing ON/OFF.

Wooden carate packaging/steel cage packaging as per the transportation needs.

- Compliance with FAA AC 150/5345-45C and Compliance with ICAO guidelines Aerodrome Design Material Part-6 Frangibility Doc 9157 First Edition – 2006 chapter 5.
- Wind load deflection test

Obstruction Light

Dual Lamp

Packaging

- $\bullet \;\; \mathsf{Salt}\,\mathsf{Spray}\,\mathsf{Test}\,\mathsf{as}\,\mathsf{per}\,\mathsf{MIL}\text{-}\mathsf{STD}\text{-}\,810\mathsf{F}\,\&\,\mathsf{ISO}\,9227;2017$
- Temperature Resistance Test -35°C to +55°C
- Flammability Test IS: 6746 1994

- Di-Electric Strength Test: ASTM D 149:2009.
- UV Resistance Test ASTM G 154: 2016/IS-14887
- Tensile Strength Test: ASTM D638
- Flexural Strength Test : ASTM D790
- Flame Spread & Smoke develop Index test ASTM E84

CERTIFICATION

Third party full crash test certificate as per compliance for full impact testing with ICAO guidelines Aerodrome design manual Part-6, chapter 5 and US department of transportation, FAA Advisory circular No 150/5345, April 2007



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