

MVM Manual Vertical Mast

Product Overview

The TDK RF Solutions MVM Manual Vertical Mast is designed for mounting antennas in EMC test environments. The TDK mast provides complete manual control of an antenna's height, tilt, and polarization, and supports antennas up to 18 kg in weight. The MVM is constructed of high-quality, non-conductive materials to withstand the rigors of daily use in both EMI and EMS testing.

Complete Positioning Control The Manual Vertical Mast's mounting arm adjusts from 97.5 cm to 200 cm and supports both small and large antennas on industry-standard mounting adapters. The mast's positioning gimbal allows manual control of antenna tilt to $\pm 10^\circ$ and provides rotation of the antenna with indexing at 0° and 90° for quick and easy polarization changes. A locking pin secures the mounting arm in position.

High-Quality Construction The mast, base, and mounting arm are constructed of heavy-duty square fiberglass tubing with a protective water seal. The mast features four locking swivel casters for safety and ease of movement. The vertical mast can be easily disassembled for storage or transportation between test sites. The MVM is available in several models to meet your testing requirements.

MVM-200R The MVM-200R adjusts from 1 m to 2 m in height. Standard item.

MVM-300R The MVM-300R adjusts from 1 m to 3 m in height. Specialty item.



The TDK RF Solutions MVM Manual Vertical Mast is designed specifically for EMC test environments. The mast provides complete positioning control and supports antennas up to 18 kg.*

Features

- Robust mechanical design
- Complete manual control of height, tilt, and polarization
- Supports antennas up to 18 kg*
- Four locking swivel casters

* Antenna mounted with its center of gravity located between 30 cm and 60 cm of mast.

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Mechanical Specifications

Extended Height (200R):	200 cm (78.75 in.)
Extended Height (300R):	300 cm (118 in.)
Collapsed Height:	97.5 cm (38.5 in.)
Base Width:	99 cm (39 in.)
Base Length:	71 cm (28 in.)
Weight (200R):	34 kg (75 lbs.)
Weight (300R):	42 kg (93 lbs.)
Construction:	Fiberglass and plastic

Ordering Information

Product:	Manual Vertical Mast
Model Number:	MVM-200R, MVM-300R
Warranty:	1 year

To place an order or to learn more about the TDK RF Solutions products that best meet your needs, contact your TDK sales representative:

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Changing Polarization

The TDK Manual Vertical Mast allows for quick and easy polarization changes.



1. Antenna mounted on mast in horizontal polarization.



2. Remove polarization locking pin.



3. With pin removed, grasp mounting arm.



4. Manually rotate mounting arm 90 degrees counterclockwise.



5. Replace polarization locking pin.



6. Antenna mounted on mast in vertical polarization.

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Changing Antenna Position

The TDK Manual Vertical Mast allows for quick and easy antenna height changes. This procedure may require the use of a stepladder and assistance from a co-worker.



1. Antenna mounted on mast in lower position.



2. The positioning gimbal secures the mounting arm to the mast.



3. Place the stepladder next to the mast. Loosen the top vertical positioning screw.



4. Support the mounting arm and loosen the lower vertical positioning screw. The mounting arm is released.



5. Push upward on the mounting arm until the antenna is in the desired position. Tighten both positioning screws.



6. The antenna mounted on the mast in a 3m position.