

Product Specification Sheet

Product Name: Hot-Dip Galvanized Steel Monopole Communication Tower (15-50m)

Tower Height: 15m / 20m / 25m / 30m / 35m / 40m / 45m / 50m (customizable)

Structure Type: Single-tube monopole tower; slip-joint or flange connection

Cross Section Shape: Circular / Octagonal / Dodecagonal / 16-sided Polygon

Material Grade: Q235B / Q345B low-alloy high-strength structural steel

Surface Treatment: Hot-Dip Galvanized (Zinc coating $\geq 85\mu\text{m}$, ISO 1461 / ASTM A123)

Painting Option: RAL color powder coating over galvanized surface (optional)

Wall Thickness: 4.0mm - 12.0mm

Top Diameter: 60mm - 180mm

Bottom Diameter: 300mm - 650mm

Flange Plate Diameter: 350mm - 600mm

Flange Plate Thickness: 16mm - 30mm

Anchor Bolt Type: M20/M24/M30 galvanized bolts with nuts and washers

Wind Load Resistance: Up to 160-180 km/h

Seismic Performance: Designed for Zone 8-9

Antenna Mounting Arms: Single or double boom arms, 0.6m - 1.5m

Platform (Optional): Ring/square platforms every 10-15m, width 0.8-1.2m

Cable Tray: Internal or external ladder-type, galvanized

Climbing Ladder: Galvanized ladder with optional safety cage

Lightning Protection: Rod (1.5m-2m), downlead cable, grounding terminals

Grounding Resistance: $<10\ \Omega$

Mounting Interface: Antenna, microwave, solar panel, CCTV, IoT sensors

Design Life: ≥ 25 years

Certifications: ISO 9001, CE, SGS, Type Test Reports

Compliance Standards: TIA/EIA-222-G/F, ISO 1461, ASTM A123, BS EN 10025

Installation Method: On-site crane assembly, pre-embedded bolts

Packing: Sectional poles in steel racks or woven bags

Shipping Container Fit: 20GP/40HQ container

Lead Time: 20-30 working days after deposit