CATEGORY: PILLARS & FOUNDATIONS

G-series lattice steel mast

Reference URL: https://en.chuangwit.com/pillar-foundation/lattice-steel-pillar.html

1. Product Overview

G-series lattice steel masts are strong and collision-resistant, widely used where high load capacity is needed: mainlines, station yards and bridge sections. Designed per the GB/T 25020 national standard series, with certification covering 25 types from G150/13 to G750/20 line masts and Gq80/9 to Gq200/12.5 straight-leg bridge masts. Henan Chuangwit supplies the lattice steel mast series, selected by capacity and height. Download Technical Datasheet (PDF) Lattice steel masts are strong, collision-resistant, widely used on mainlines, stations and other high-load sections. Produced to the GB/T 25020 series national standard; G in the model denotes a lattice steel mast, with numbers for capacity (kN·m) and height (m).Q235B or Q345 steel is common, hot-dip galvanized (zinc coating at least 610g/m^2 when thickness is at least 5mm). | | certificationModelcovers | certificationModelcoversG seriesline masts (capacity150~750kN·m, height13/15/20m) and Gq seriesstraight-leg bridge masts (capacity80~200kN·m, height9~12.5m) - 25 models in total. | G series (14 models): G150/13,

2. Published Technical Specifications & Parameters

Parameter	Published Value / Specification
Model	G series, Gq straight-leg bridge masts series (certification25Model)
Standard	GB/T 25020, TB/T 2286 (steel masts for electrified railway OCS) Series standards
Operating Temperature	-40 deg C~+70 deg C
Altitude	<=4000m
Materials	Q235B/Q355Bsteel with hot-dip galvanizing, prestressed concrete, aluminium alloy (emergency repair)
Installation	direct burial/flange foundation installation, whole-mast erection
Series Columns	Common models | Mast capacity(kN·m) | Mast height(m) | Notes
G50/9.5	Mast capacity(kN·m)=50; Mast height(m)=9.5; Notes=smaller capacity, heightlower mast
G150/13	Mast capacity(kN·m)=150; Mast height(m)=13; Notes=medium capacity and height, widely used
G200/15	Mast capacity(kN·m)=200; Mast height(m)=15; Notes=large capacity and height, for high-load locations
Standard	GB/T 25020 series
Structure type	Lattice (square tube, ring tube and H-section masts also available)
Main material	Q235B or Q345 grade steel
Corrosion protection	hot-dip galvanized, zinc coating at least 610g/m2 at 5mm thickness

G-series lattice steel mast - Continued

Parameter	Published Value / Specification
Other model prefixes	Gs (double-track cantilever masts), Gz (narrow steel masts), Gq (straight-leg bridge masts, for bridge sections) etc.
Scope of application	mainlines, stations and other high-load sections

3. Operating Conditions

for sections, station OCS support structures, bearing suspension load, wind load and ice load.

4. Mechanical Performance

Standard test bending moments meet the TB/T 2286 class series; hot-dip galvanizing lasts at least 30 years and concrete pole crack resistance is type-tested.

5. Electrical Performance

with earthing terminal, meeting mast earthing and stray-current protection requirements.

6. Typical Applications

lattice steel masts on mainline sections G series are arranged by span and load on mainline sections. | Station throat areas: | lattice steel mast G series work with head-span beams in multi-track station areas. | Emergency repair: | lattice steel mast G series restore power supply quickly after storm-pole failures. | Corrosive environments: | lattice steel mast G series use thickened hot-dip galvanizing in coastal corrosive environments.

Engineering & Quality Compliance Notice

Manufactured under ISO 9001 and CRCC product certification rules where applicable. All values mirror published site specifications.
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