CATEGORY: PILLARS & FOUNDATIONS

H-series cross-arm prestressed concrete pole

Reference URL: https://en.chuangwit.com/pillar-foundation/h-type-prestressed-concrete-pillar.html

1. Product Overview

The H-series cross-arm prestressed concrete pole is common on conventional-speed railway OCS, with low cost and good insulation. Designed and produced per the TB/T 2286 industry standard series, with concrete grade C50 or above; the type numbers give capacity, height above ground and embedded depth in turn, in cup and flange foundation versions. Henan Chuangwit Railway Equipment stocks all capacity classes for project batch selection. Download Technical Datasheet (PDF) cross-arm (H type)prestressed concrete poles cost less and insulate well, and are very common on conventional-speed railways.Designed and produced to the TB/T 2286 series industry standard, with concrete strength class at least C50.In the model H denotes the cross-arm concrete pole; the numbers give mast capacity (kN·m), height above ground and embedment (m); some poles use cup foundations (denominator 1.5 in the size) or flange foundations.

2. Published Technical Specifications & Parameters

Parameter	Published Value / Specification
Model	H series
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) | Height above ground(m) | Embedment depth(m) | Notes
H60/8.7+3.0	Mast capacity(kN·m)=60; Height above ground(m)=8.7; Embedment depth(m)=3.0; Notes=one of the most basic common models
H78/8.7+3.0	Mast capacity(kN·m)=78; Height above ground(m)=8.7; Embedment depth(m)=3.0; Notes=slightly larger capacity
H170-250/12+3.5	Mast capacity(kN·m)=170; Height above ground(m)=12; Embedment depth(m)=3.5; Notes=large-capacity, tall mast
Standard	TB/T 2286 series
Structure type	cross-arm (H type)
Concrete strength	at least C50
Foundation type	cup foundation (denominator 1.5) or flange foundation
Scope of application	supports of conventional-speed railway OCS

H-series cross-arm prestressed concrete pole - Continued

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

cross-arm prestressed concrete poles on mainline sections H series are arranged by span and load on mainline sections. | Station throat areas: | cross-arm prestressed concretemast H series work with head-span beams in multi-track station areas. | Emergency repair: | cross-arm prestressed concretemast H series restore power supply quickly after storm-pole failures. | Corrosive environments: | cross-arm prestressed concretemast H 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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