

Pipe Pile Photovoltaic Support Welding

Can photovoltaic support steel pipe screw piles survive frost jacking?

To study the frost jacking performance of photovoltaic support steel pipe screw pile foundations in seasonally frozen soil areas at high latitudes and low altitudes and prevent excessive frost jacking displacement, this study determines the best geometric parameters of screw piles through in situ tests and simulation methods.

What are the different types of photovoltaic support foundations?

The common forms of photovoltaic support foundations include concrete independent foundations, concrete strip foundations, concrete cast-in-place piles, prestressed high-strength concrete (PHC piles), steel piles and steel pipe screw piles. The first three are cast-in situ piles, and the last three are precast piles.

What are steel pipe screw piles?

Among them, steel pipe screw piles are widely used in photovoltaic support foundation projects in various countries and Western China (Zarrabi and Eslami, 2016, Chen et al., 2018) because they have simple and fast construction, less noise and vibration and can be reused (Livneh and El Naggar, 2008, Aydin et al., 2011, Mohajerani et al., 2016).

What is a photovoltaic support foundation?

Photovoltaic support foundations are important components of photovoltaic generation systems, which bear the self-weight of support and photovoltaic modules, wind, snow, earthquakes and other loads.

What is the difference between steel pipe screw pile and PHC pile?

Compared with the PHC pile, the difference in the steel pipe screw pile is that its shaft is thin, the pile-soil friction is small, and the bearing capacity is mainly borne by helical plates.

Is a PHC pile foundation a reliable support structure for heliostats?

A comprehensive design program is proposed based on field tests and numerical simulations, considering deformation and bearing capacity. The study confirms the reliability of the PHC pile foundation as a support structure for heliostats, aiming to offer valuable insights for practical applications.

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Screw pile is a new type of pile foundation. Its essence is galvanized steel pipe pile with screw blade welded. The spiral blade can well increase the resistance of soil to it and enhance the ...

The connection joint of prestressed concrete pipe piles is a typical steel-concrete structure, and its bending strength has evolved into a critical factor affecting the safety of ...

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Keywords: Steel pipe pile, continuation welding and construction site Steel pipe piles are used as support structures for bridges and buildings. Steel pipe piles are drilled into the ground at the ...

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