

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 is a fixed adjustable photovoltaic support structure?

In order to respond to the national goal of "carbon neutralization" and make more rational and effective use of photovoltaic resources, combined with the actual photovoltaic substation project, a fixed adjustable photovoltaic support structure design is designed.

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 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 Frost jacking of the photovoltaic pile?

Considering the thawing settlement of the pile body, within the 25-year service period of the photovoltaic power project, the frost jacking of the pile is approximately 144.68 mm. anti-frost jacking measures are recommended to reduce the impact of frost heaving.

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.

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This phenomenon of rapid degradation of bearing capacity is particularly evident after χ reaches a certain size, and the $R_{cs}-\chi$ curve of $t = 3$ mm steel pipe presents a large ...

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