

What is a HIB distribution box



AI Overview

A HIB distribution box is a specialized electrical distribution board designed to safely supply and manage power for HIB series industrial vibrators used in dam and concreting works.

Overview

A HIB distribution box, often referred to as the HIB-BSA distribution board, is a special-purpose electrical panel that distributes high-frequency power to multiple HIB series vibrators simultaneously. These vibrators are used in construction applications such as dam concreting and sand control dams, where precise vibration is required to ensure proper concrete compaction and structural integrity .

Function and Operation

The HIB distribution box works in conjunction with a high-frequency inverter. The inverter converts standard commercial three-phase power (200 V, 50/60 Hz) into a higher frequency (around 125 Hz), which is optimal for running the HIB vibrators. The distribution box allows the inverter output to be branched, enabling multiple vibrators to operate at the same time from a single power source . This setup ensures efficient and synchronized operation on large construction sites.

Key Features

- **Multiple Outlets:** The box is designed to connect several vibrators simultaneously, with compatibility for specific plug types to ensure safe operation

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