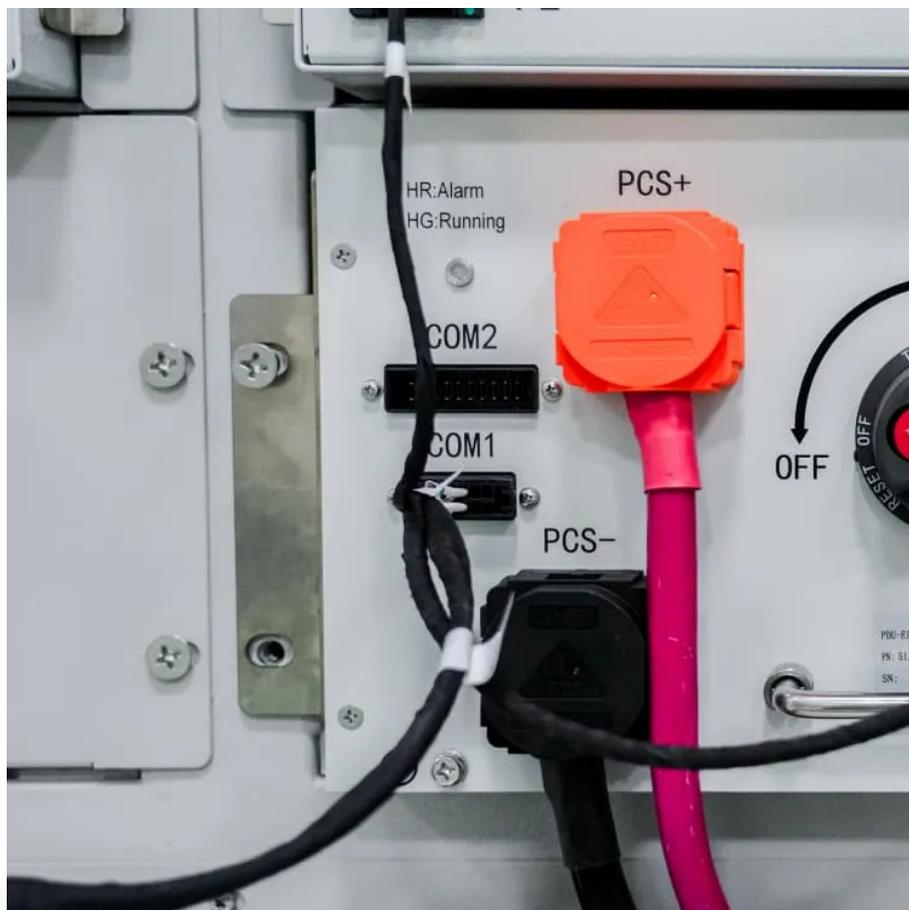


What are the energy storage module extrusion equipment





Overview

How a coaxial energy storage device is extruded?

The extrusion of coaxial energy storage devices is related to multiple printable slurries, which requires the appropriate matching of various viscosities and flow rates between different slurries. The manufacturing can be realized by indirect extrusion and direct extrusion.

Why are hollow energy storage devices a hot topic in extrusion-based manufacturing?

Fiber-shaped energy storage devices with hollow structures have become a hot topic in extrusion-based manufacturing techniques. In addition, the shear stress during extrusion also forces materials into an arrangement to some extent. The GO and coagulation bath were extruded through a coaxial head to fabricate the hollow GO fiber [Fig. 8 (b)] .

What is extrusion based printing?

Extrusion-based printing is time-consuming, easily controllable, and repeatable in preparing the fiber-shaped energy storage devices with coaxial structure. The research of coaxial energy storage devices primarily focus on developing manufacturing processes and identifying suitable materials.

What is material Extrusion based manufacturing?

Material extrusion-based manufacturing is one of the most popular techniques to extrude molten or viscous materials to form 1D, 2D, or 3D geometries [21, 22]. It enables the fabrication of flexible electronics with high resolution and convenience.



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