Wire routing frame on wire rod



Overview

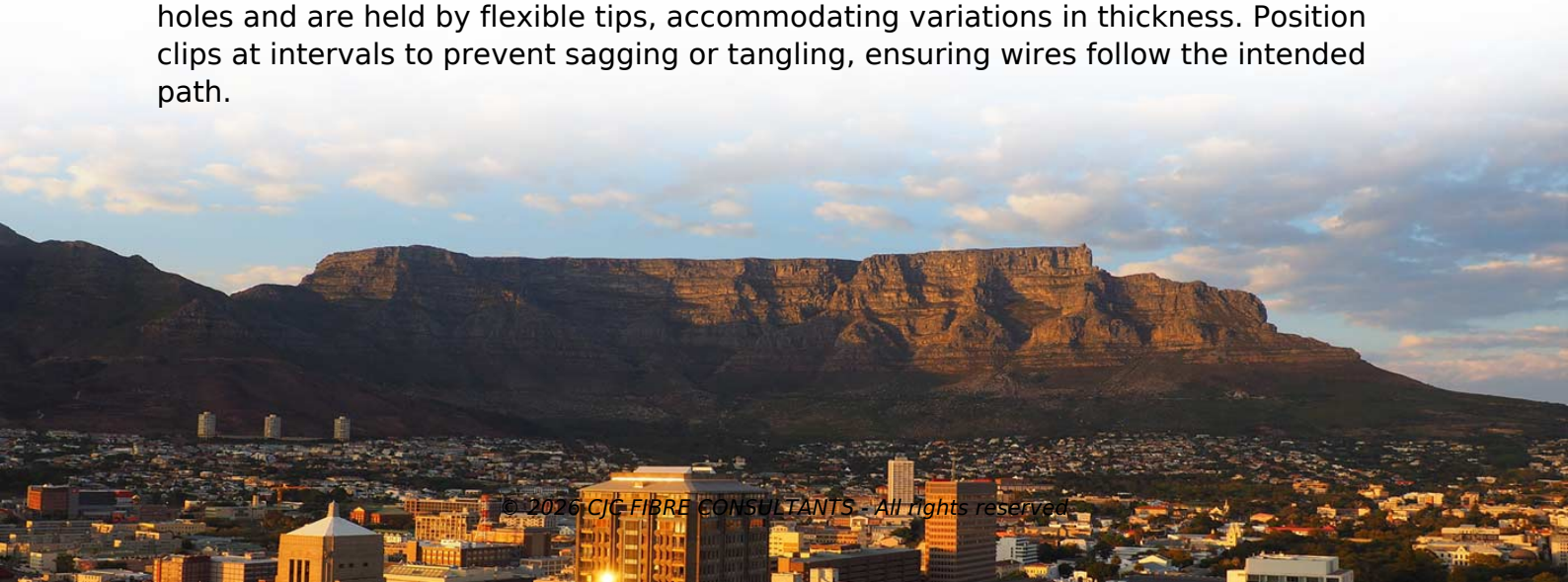
Steel Wire Manufacturing Made Easy: Step-by-Step Unlike standard wire, spring wire must achieve a delicate balance between high tensile strength and resili.

Key Takeaways

Installing a wire routing frame involves securing the frame to the wire rod, using inserts or clips, and threading the wire through guides to ensure proper alignment and tension. Step 1: Prepare the Frame and Wire RodEnsure the wire rod is clean and free of debris or rust. Select the appropriate wire routing frame or portal system compatible with your wire rod, such as steel or titanium portals with aluminum inserts if using a modular system.

Verify the dimensions of the portal and inserts match the wire rod and intended wire diameter. Step 2: Attach the Frame or PortalIf using a modular internal routing system, bolt the aluminum inserts into the steel or titanium portal that is brazed or welded onto the frame. Ensure the portal is securely fixed; rubber plugs can be used to protect the portal during painting or handling.

Step 3: Secure Wires with Clips or GuidesUse wire routing clips or cable clamps to hold wires, tubes, or rods in place along the frame. Clips typically snap into pre-drilled holes and are held by flexible tips, accommodating variations in thickness. Position clips at intervals to prevent sagging or tangling, ensuring wires follow the intended path.



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Step 4: Thread the Wire Through the FrameInsert the wire through the wire routing inserts or guides, which may include rubber guides to protect the wire and maintain alignment. For larger installations, such as cable meshes, use a wire rope to wrap the edge of the mesh onto the frame, moving back and forth to secure it evenly. Step 5: Tension and FinalizePull the wire or cable taut, ensuring uniform tension across the frame.

Thread the ends through ferrules and use a swaging tool to secure them. Cut off any excess wire. Remove temporary cable ties or supports once the wire is properly tensioned and fixed.

Step 6: InspectionCheck that all wires are properly routed, secured, and free from sharp bends or kinks. Ensure the frame is stable and the wire rod is not under undue stress. Test the system for smooth operation if the wire is part of a moving mechanism.

By following these steps, you can install a wire routing frame on a wire rod safely and efficiently, ensuring proper alignment, tension, and long-term durability.

Article Content

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Copper-Clad Steel – Steel rod or wire with a coating of copper bonded to it. Fastener – A component or set of components used to securely attach materials to the structure. Grounded – Connected to earth

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Layout 1

Threaded rod suspension brackets (Figures 11) are useful when space is limited. When several levels of cable ladder or cable tray are mounted on the same threaded rods in a multiple level installation

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