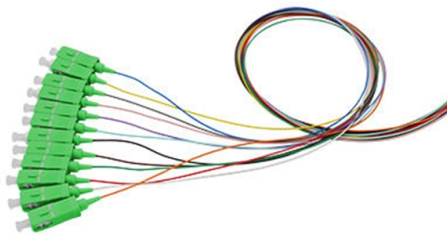


Material handling conveyor frame



AI Overview

A conveyor frame is the structural backbone of a material handling system, providing support, stability, and alignment for belts, rollers, and other components. Purpose and Function Conveyor frames serve as the primary support structure for conveyor systems, ensuring that belts, rollers, and drive components remain stable and properly aligned during operation. They are designed to withstand heavy loads, maintain system stability, and allow efficient and reliable transport of materials in industrial, warehouse, and distribution environments. Materials and Construction Conveyor frames are commonly fabricated from high-strength carbon steel, stainless steel, aluminum, or painted heavy-duty formed metal. Steel frames offer rigidity, high load capacity, and corrosion resistance, making them suitable for heavy-duty applications, while aluminum frames are lightweight and ideal for cleanroom or ESD environments. Stainless steel frames are often used in food, pharmaceutical, and washdown applications due to their sanitary properties. Design Types Frames can be modular or custom-designed to fit specific conveyor layouts. Modular designs allow flexible installation, easy maintenance, and scalability, accommodating roller conveyors, belt conveyors, gravity conveyors, and pallet conveyor systems. T-slotted framing and high-capacity roller conveyor frames are also available for specialized applications. Applications Conveyor frames are widely used in logistics, e-commerce fulfillment centers, manufacturing plants, packaging lines, and automated warehouse systems. They are engineered to operate in industrial, oily, wipe-down, washdown, cleanroom, and ESD environments, ensuring reliable material flow under continuous operation. Selection Considerations When selecting a conveyor frame, key factors include: Load capacity: Ensure the frame can support the weight of materials and equipment. Conveyor width and length: Match the frame dimensions to the system layout. Environmental conditions: Choose materials...

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