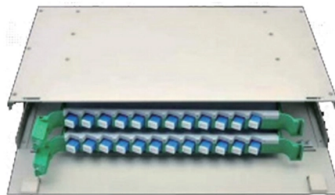


Fiber Pigment Manufacturing Machine



AI Overview

A Fiber Pigment Making Machine integrates fiber production with pigment incorporation, using extrusion, spinning, and high-shear mixing technologies to produce colored synthetic or natural fibers. Overview A Fiber Pigment Making Machine is designed to produce fibers that are pre-colored or pigmented during manufacturing, rather than dyeing them afterward. This process combines synthetic fiber production with pigment dispersion, ensuring uniform color distribution and high-quality fiber output. Key Components and Processes Fiber Extrusion Machine Receives melted polymer and shapes it into filaments through a spinneret, which can have different hole shapes to produce various fiber types (round for polyester/nylon, clover for silk-like fibers). Pigments can be mixed into the polymer melt before extrusion to create colored fibers directly. Spinning and Drawing Machines Align and stretch the extruded fibers to improve strength and uniformity. Pigmented fibers maintain consistent color as the drawing process does not affect the pigment distribution. High-Shear Mixing and Dispersion Equipment Used for ultra-fine pigment grinding and incorporation into the polymer or fiber slurry. Ensures grit-free, homogeneous pigment distribution and prevents sedimentation during fiber formation. Machines often feature rotors, paddles, and vacuum systems to mix powders and liquids efficiently. Fiber Finishing and Packaging Fibers may undergo chemical treatments to enhance properties like water resistance, fire retardancy, or antibacterial effects. Finished fibers are cut, baled, and packaged for textile or industrial applications. Applications Textiles: Colored yarns, fabrics, and non-wovens for clothing, upholstery, and home textiles. Industrial Products: Colored ropes, nets, geotextiles, and technical fibers. Specialty Fibers: Hollow, conjugated, or high-tenacity fibers with integrated pigments for advanced applications. Advantages Uniform Color Distribution: Pigments are incorporated during fiber formation, reducing post-dyein...

Article Content

Man-made fibre

Man-made fibre - Processing, Fabrication, Synthetic: Polymer that is to be converted into fibre must first be converted to a liquid or semiliquid state, either by being

Pigment Printing Process Guide | Packaging

Garment manufacturers appreciate pigment printing for its ability to work on blended fabrics. Polyester-cotton blends, which are challenging for

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Choosing the Right Grinding System for (processing)

Explore optimal grinding systems for pigment processing, including mechanical impact mills, jet mills, and steam jet mills, tailored for various pigment types.

Dye& Pigment Complete Production Line

SIEHE industry designed and researched in details on dust collection in pigment manufacturing. The entire production line is closed, feeding station and packing point take use of center dust collector to

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Sudarshan is a global leader in color solutions. With a legacy spanning over 270 years in pigment manufacturing, we serve customers in more than 120 countries,

Fiber Machinery and Equipment

International Fiber Journal covers textile fiber trends and material science developments and how they impact the supply chain from raw material

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Stalwart International is an experienced customized equipment manufacturer who provide dispersion equipment, grinding mills, pigment reactors to Dye & Pigments industry.

Pigment Production

Unlock the secrets of Pigment Production with NETZSCH! Discover ultra-fine grinding solutions for optimal granulation and minimal contamination. Start your

Key Optical Fiber Manufacturing Equipment: A Complete Guide

Learn about key optical fiber manufacturing equipment like drawing towers, coating systems, and proof testers to optimize your production line.

Dye& Pigment Complete Production Line

Pigment, a group of materials can dye other subjects, are divided into soluble& insoluble dye and organic& inorganic dye. Dye, a group of materials can dye fiber and other materials, is divided into

Pigment-Based Textile Printing

Future Goals Pigment-based digital textile printing is a small portion of current digital textile printing work. But, as more garment and décor manufacturers and textile producers become

Polyester Fiber Machinery: Leading PSF Production

Polyester Staple Fiber (PSF) Production Line MACHINERY & EQUIPMENT We specialize in delivering end-to-end solutions for polyester staple fiber (PSF)

Role of Chemicals in Textile Processing and Its Alternatives

Chemical substances and additives have a crucial function in the manufacturing of textiles, starting from the elimination of impurities from fibers to providing the ultimate touch to the

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Our high-performance equipment ensures consistent pigment quality, optimal particle size, and efficient production—meeting the diverse needs of paint, coating, ink, and dye manufacturers.

Pigment Grinding Equipment: Milling for Color Integrity

The Pigment Grinding and Milling The pigment industry colors the paints, inks and dyes essential for manufacturing food, clothing, pharmaceuticals, automobiles,

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