70 Optical Cable Production Line



Overview

70 Distribution And Breakout Optical Cable Sheath Extrusion Short Description: It is used to produce the sheath of distribution cable,breakout cable. fiber.

Key Takeaways

The 70 Optical Cable Production Line is a high-speed, versatile system designed for manufacturing indoor and outdoor fiber optic cables with advanced stranding, sheathing, and extrusion capabilities.

Overview

The 70 Optical Cable Production Line, such as the OFC 70 or HK-70, is engineered to produce a wide range of fiber optic cables, including indoor, outdoor, direct-buried, duct, and aerial designs. It integrates multiple stages of cable manufacturing, including fiber pay-off, coloring, buffering, SZ stranding, armoring, and outer jacket extrusion. The line is suitable for both jelly-filled and dry cable designs, offering flexibility for different environmental and performance requirements.

Key ComponentsSZ Stranding Machine: Ensures precise twisting of fiber tubes or ribbons, supporting high-speed production with controlled torsion and dual cross binders. Sheathing Line (HK-70): Capable of extruding various cable sheaths, including flame-retardant and Low Smoke Zero Halogen (LSZH) materials, ideal for indoor optical cables. Extruders: Single or multiple screw extruders handle insulation and jacket materials, with auto-adjustment for thickness and compatibility with PVC, LSZH, or other compounds.

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Armoring Units: Equip the line for aluminum or corrugated steel tape armoring, enhancing mechanical protection for outdoor cables. Control Systems: Advanced line control ensures consistent tension, temperature, and real-time quality monitoring, reducing downtime and scrap. Production CapabilitiesHigh-Speed Operation: Capable of producing long batches with minimal setup time, supporting high-volume manufacturing.

Versatility: Supports multiple cable types, including single-mode, multi-mode, and specialty optical cables. Environmental Resistance: Cables produced can withstand outdoor conditions, direct burial, and aerial deployment. Precision and Quality: Automated systems maintain consistent fiber alignment, jacket thickness, and overall cable integrity.

Applications

The 70 Optical Cable Production Line is widely used in: Telecommunications and broadband networksData centers and high-speed internet infrastructureSmart city and industrial network deploymentsMilitary and specialized communication systems requiring durable, high-performance optical cables AdvantagesReduced downtime and setup times with automated controlsHigh flexibility for different cable designs and materialsEnhanced productivity with long batch processing and high-speed strandingAbility to produce cables meeting international standards for performance and safety This production line is ideal for manufacturers aiming to meet the growing demand for high-bandwidth, reliable optical communication infrastructure while maintaining efficiency and product quality.

Article Content

fiber optic cable production lines and equipment

The OFC 70 line is designed to SZ-Strand a variety of tubes containing fibers or ribbons. With it, you can manufacture fiber optic cables for a wide range of indoor and outdoor applications with a flexible layout.

SJ65/70 Multifunctional Indoor Optical Cable Sheath Production Line

Equipment use: This production line is used to produce tight-buffer stranded flexible optical cables (distribution cable), unit cable stranded optical cables (branch optical cables), remote optical cables,

HK-70 distribution and breakout optical cable sheath extrusion ...

Guangdong Hongkai Optical Cable Equipment Technology Co.Ltd.is a professional company which specializes in developing and manufacturing optical fiber cable equipments, electric wire and cable

machines for fiber optical cable production

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Acquire reliable equipment to produce optical cables for outdoor applications. Our machines win customers over with their outstanding quality, high production

Optical Cable Production Line 30 50 70 90

This production line is used to produce indoor and outdoor optical cables. The extrusion materials are suitable for PVC and LSZH. The extruded shape is round, uniform in

70 cable extrusion machine

Designed for the efficient extrusion of PVC, XLPE, PE, and HFFR materials, this production line is ideal for producing BV, BVR, BVV, and RV cable sheaths. With

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How to Choose the Right Fiber Optic Cable Production

Learn how to select the ideal fiber optic cable production line for your factory—covering capacity, budget, and cable type for maximum ROI.

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Optical Cable Production Line: Revolutionizing Global Connectivity ...

As the backbone of modern telecommunication infrastructure, optical cable production lines have evolved into hyper-automated ecosystems that blend robotics, AI, and advanced materials

Advancing Optical Cable Production Lines: Automation, Quality

Conclusion As global broadband speeds approach 10Gbps symmetrical, optical cable production lines must evolve beyond traditional manufacturing paradigms. The fusion of precision

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