

FTTH Drop Fiber Optic Cable Production Line

This optical cable production line is designed for manufacturing FTTH drop cables. The machine integrates fiber payoff, jacketing, cooling, and winding to deliver high-quality optical cables.



ADDITIONAL IMAGES



Product Overview

High-Efficiency FTTH Production Line

This advanced optical cable production line is specifically engineered for the manufacturing of FTTH drop fiber optic cables, including 2.0x3.0mm and 2.0x5.0mm specifications. The system integrates a comprehensive range of processes, from fiber payoff and tension control to precision extrusion, cooling, and winding. Designed for high-speed operation and consistent quality, it utilizes an IPC+PLC control system to ensure reliable performance for telecommunications and networking applications.

Technical Performance

Production Capacity

9 km/h

2.0x3.0mm Cable

7 km/h

2.0x5.0mm Cable

Production Speed	190 m/min
Fiber Tension	0.4N-1.2N ±0.05N
Additional Loss (SM Fiber)	≤0.02dB/km

Physical Requirements

Total Line Length	26 m
Power Supply	63KVA, AC380V ±10% 50HZ (3-phase, 5-wire)
Normal Running Power	35 kW/h

Line Configuration

Standard Configuration

- 1800 Strengthen member bigger steel wire pay-off
- 4 heads fiber + 2 head FRP/small steel wire pay-off
- Mobile mold supporting
- 50 extruder
- Dryer + hopper
- IPC+PLC program control system
- Moving water trough and warm water tank
- Fixed cooling water trough and tank
- Laser diameter gauge
- Dual-wheel capstan
- Cable accumulator
- Dual-wheel take-up

Compatible Cable Materials

LSZH, PVC, PE