

Tight Buffer Fiber Extruding Line



1. Introduction

The tight buffer fiber has the characteristics of softness, easy stripping, small bending radius, excellent mechanical and environmental performance, etc. It is currently mainly used for short-distance and medium-distance wiring in indoor environments. The so-called tight buffer fiber is a process of directly squeezing a suitable plastic tight-pack buffer layer outside the coating layer of the optical fiber in order to protect the optical fiber from external influences. The production equipment used is the tight buffer fiber extruding line.

We have many years of experience in research and development and manufacturing of optical fiber and cable production equipment. The tight buffer fiber extruding line is suitable for the extrusion of PVC, LSZH, and Nylon materials, and can produce single-core tightly wrapped optical fibers with outer diameters of 0.6mm and 0.9mm. The production line has the characteristics of precise tension, easy operation, fast production speed and stable performance.

The whole machine of this production line adopts the control technology combining industrial computer and programmable logic controller, namely PC + PLC mode to realize the synchronous operation of the whole line and the independent operation of the single machine; the operation of the production line, the setting and display of parameters, etc. are all carried out by industrial control computer, the production control process such as motor start, stop, signal given, motor speed and other production status collection are realized by PLC; data transmission between industrial control computer and PLC through the communication port; it can realize the functions of production operation, alarm display, and emergency stop of the production line.

2. Main Technical Parameters

Model	LT30
Applicable extrusion material	PVC, LSZH, Nylon
Structure speed (m/min)	400
Production speed (m/min)	max.300
Fiber diameter (mm)	$\varphi 0.25 \sim \varphi 0.40$
Tight buffer fiber diameter (mm)	$\varphi 0.6$ 、 $\varphi 0.9$
Number of pay-off bobbins	2
Pay-off bobbin	25km, 50km international general fiber optic bobbin
Take-up bobbin (mm)	$\varphi 400$
Additional fiber loss (dB/km)	≤ 0.02

Product link : <https://www.linttop.com/tight-buffer-fiber-extruding-line.html>