T700CQ Multifunctional Pneumatic Cable Blowing Machine

Product Introduction

The T700CQ Multifunctional Pneumatic Cable Blowing Machine is a high-performance, air-driven solution designed for efficient and safe optical cable installation. Ideal for laying standard duct optical cables, micro cables, and micro ducts, it features an imported compressed air drive motor for low failure rates, long service life, and high efficiency. With a maximum pushing speed of 120 meters per minute, it supports cable diameters of 6 – 14mm and pipe diameters of 10 – 50mm. Its compact design, variable speed control, and bidirectional operation make it a versatile and reliable choice for telecommunications, network infrastructure, and fiber optic cable installation projects.

Product Key Selling Points

☑ High-Efficiency Pneumatic Cable Installation

The T700CQ uses advanced compressed air technology to blow optical cables into HDPE or PE ducts quickly and smoothly. This method reduces cable tension, prevents external damage, and significantly lowers signal attenuation compared to traditional pulling methods. It is perfect for installing micro cables, standard optical fibers, and multiple micro tubes simultaneously.

☑ Gentle on Cables with Adjustable Conveyor Belt

Equipped with a soft yet durable conveyor belt, the T700CQ ensures gentle handling of optical cables during installation. The belt pressure is adjustable based on cable diameter, protecting both the cable sheath and fiber core from scratches, crushing, or stretching.

☑ Versatile Compatibility for Various Cables and Tubes

This machine supports a wide range of applications, including standard optical cables (GYTA), non-armored micro cables (GCYFY, JET OUFU), and HDPE micro tubes. It can blow 1 – 3 micro tubes (10/8mm) at once and is suitable for cable diameters from 6mm to 14mm.

☑ Easy to Operate and Maintain

With intuitive controls, variable speed adjustment, and a user-friendly design, the T700CQ requires minimal training. Its sturdy construction and accessible components simplify maintenance, ensuring long-term reliability in demanding fieldwork.

☑ Compact and Portable with High Power Output

Despite its small size (600 × 400 × 350mm), the T700CQ delivers strong pushing force up to 700N. It is lightweight (28kg) and comes with a durable aviation case, making it easy to transport and deploy in various outdoor and indoor environments.

Product Specifications

Parameter	Value

Model	T700CQ
Suitable Cable Diameter	6 – 14 mm
Suitable Pipe Diameter	10 – 50 mm
Micro Tube Support (10/8mm)	1 – 3 tubes
Maximum Thrust	0 – 700 N
Pushing Speed	0 – 120 m/min
Working Pressure	16 bar
Power Source	Compressed Air (0.6 – 1 MPa)
Host Weight	28 kg
Host Dimensions	600×400×350 mm
Packed Dimensions	750×480×480 mm
Packed Weight	50 kg
Recommended Air Compressor	Diesel screw type, 10 – 15 m^3 /min, 12 – 15 bar

Product Features

Feature 1: Enhanced Cable Safety and Longevity

The pneumatic blowing method ensures cables are laid loosely within ducts, eliminating long-term tension and stress. This reduces micro-bends and attenuation, extending cable life and maintaining signal integrity—ideal for long-distance and high-speed network projects.

Feature 2: Increased Installation Speed and Efficiency

With a top speed of 120 meters per minute, the T700CQ drastically reduces labor time and costs. It is perfect for contractors and telecom operators looking to accelerate fiber rollout in urban, suburban, and backbone network deployments.

Feature 3: Adaptable to Various Duct and Cable Types

Whether you’re working with HDPE siliconized ducts, PE pipes, micro ducts, or standard optical cables, the T700CQ offers unmatched flexibility. Changeable cable seals, pipe plugs, and guide grooves allow quick adaptation to different job requirements.

Feature 4: Reduced Physical Strain and Operational Risk

The machine’s ergonomic design and automated blowing process minimize manual handling, lowering the risk of cable damage and worker injury. Its reliable air-driven motor also reduces electrical hazards in wet or rugged environments.

Feature 5: Cost-Effective and Future-Proof Solution

By supporting micro tube and micro cable installation, the T700CQ helps maximize duct utilization. Operators can blow empty micro tubes first and install cables later as needed, offering a scalable and economical approach for growing network demands.

Application Scenarios & Customer Pain Points Solutions

- Urban Fiber Network Deployment

Scenario: Deploying fiber optic cables in dense urban areas with existing infrastructure and limited space.
Pain Points Solved: Traditional cable pulling methods often require extensive road closures, cause traffic disruption, and risk damaging underground utilities. The T700CQ’ s precise pneumatic blowing allows fast, non-intrusive installation through existing ducts, minimizing public inconvenience and reducing restoration costs while accelerating project timelines for municipal broadband and FTTH (Fiber to the Home) projects.

- Long-Distance & Backbone Optical Cable Laying

Scenario: Installing high-count fiber cables over long distances for telecom backbone and intercity networks.
Pain Points Solved: Manual or traction-based laying over long distances is time-consuming, labor-intensive, and increases cable strain and attenuation. The T700CQ enables continuous, high-speed blowing up to 2000 meters per run, ensuring consistent cable placement, lower signal loss, and reduced labor costs—ideal for expanding network capacity and reliability in regional and national infrastructure.

- Micro Duct & Micro Cable Installation in Congested Ducts

Scenario: Upgrading or expanding network capacity by blowing micro ducts and micro cables into existing congested conduits.
Pain Points Solved: Limited duct space and the inability to add new cables easily hinder network scalability. The T700CQ can simultaneously blow multiple micro tubes (e.g., 10/8mm) into parent ducts, maximizing conduit utilization. This allows operators to defer cable installation until needed, offering a flexible, cost-effective solution for network evolution and gradual capacity expansion.

- Sensitive or Rugged Terrain Cable Installation

Scenario: Laying cables in challenging environments such as mountainous regions, wetlands, or areas with unstable soil.
Pain Points Solved: Mechanical pulling in difficult terrain often leads to cable damage, excessive friction, and higher failure rates. The T700CQ’ s air-assisted blowing reduces physical stress on the cable, adapts to uneven duct paths, and minimizes the need for heavy machinery. This results in safer, more reliable installations with extended cable lifespan in environmentally sensitive or hard-to-access locations.

- Rapid Network Restoration & Emergency Repairs

Scenario: Quickly replacing damaged optical cables after natural disasters, accidents, or network outages.
Pain Points Solved: Network downtime leads to significant service disruption and revenue loss. The T700CQ’ s portability, ease of setup, and high-speed operation enable rapid cable replacement and restoration. Its gentle blowing method ensures new cables are installed without additional stress, helping restore critical communications swiftly while maintaining long-term network integrity.

Q&A

Q1: What types of cables can the T700CQ blow?
A: The T700CQ is designed for optical cables with diameters between 6mm and 14mm, including GYTA, GCYFY, JET OUFU micro cables, and up to three 10/8mm HDPE micro tubes simultaneously.

Q2: What air compressor is recommended for this machine?
A: We recommend a diesel-powered screw air compressor with an output of 10 – 15 m^3 /min and pressure of 12 – 15 bar. This ensures optimal performance and continuous operation in field conditions.

Q3: What is the maximum cable blowing distance?
A: Under normal conditions, the T700CQ can blow cables between 600 to 2000 meters, depending on terrain, cable weight, duct quality, and operating speed (60 – 80 m/min is recommended).

Q4: Is training required to operate the T700CQ?
A: While the machine is user-friendly, we recommend basic training for optimal setup, speed adjustment, seal replacement, and maintenance to ensure safety and efficiency.

Q5: How do I maintain the T700CQ?
A: Regular maintenance includes checking the conveyor belt, cleaning cable seals, lubricating the air motor with pneumatic oil, and inspecting air filters. Detailed guidelines are provided in the manual.

Package Contents

T700CQ Host Machine ×1
Aviation Packing Case ×1
High-Pressure Air Hose (10m) ×1
Conveyor Belt ×4
Cable Plugs (M10, M16) ×2
Pipe Plugs (10 – 20mm, 32mm, 40mm) ×3
Cable Sealing Rings (Ø6 – 14mm) ×20
Quick Connectors (G1") ×2
Sealing Rings for Connectors ×4
Cable Guide Grooves (Ø10, Ø16) ×2
Hose Clamp ×1
Air Chamber Seal ×2
Hydraulic Seals ×8
Pipe Scissors ×2
Hex Key Set ×1
Pliers ×1
Pipe Union (Ø40) ×1

Blowing Lubricant (25kg) ×1
Pipe Tester (DN40) ×1
Longitudinal Scissors ×1
Caliper (150mm) ×1
Shuttles (Ø30mm) ×6
Nameplate ×1
Certificate of Conformity ×1
Factory Inspection Report ×1