Optical Fiber & Cable Machinery

www.zttcable.com

COMPANY Profile

Shanghai Yupin Communication Technology Co., Ltd. is one optical fiber and cable special equipment R&D institute of Zhongtian Technology Co., Ltd. We are engaged in optical fiber and optical cable machine researching and manufacturing. All technicians and developers have many technology experiences in optical fiber communication machine manufacturing field. Therefore, we have strong technical renovation and innovation power. We also can give customer the turnkey project. Our products have been sold to many optical fiber and cable manufacturers of China, and also exported to many countries around the world, such as U.S.A, Netherlands, Russia, Byelorussia, Italy, Romania, Australia, Indonesia and India, etc.

We have passed ISO9001-2000 certification. All optical fiber and cable machine get CE certificate.

Under strict quality control system, we received customers' trust with supreme technology, supreme quality and supreme services. We will provide up-to-date products for customers both at home and broad.

ZTT

CONTENT

Optical fiber drawing tower

Application

This drawing tower is used to produce high quality silica optic-fibre.

Technical Data

- one tower one line or one tower two line
- Tower height 27m
- Drawing speed 1500m/min
- Preform dia Φ80~120×2800mm
- Graphite furnace temperature 2500±2℃
- Fiber diameter Φ245±3μm
- Take-up reel Φ405mm×Φ50mm×270mm

Tower configuration

- Preform feeding unit
- Graphite furnace
- Diameter gauge
- Cooling system
- Auxiliary capstan
- First coating system
- Coating concentric tester
- UV curing system
- Diameter gauge
- Second coating system
- Coating concentric tester
- UV curing system
- Diameter gauge
- Fiber PMD twister
- Tension testing device
- Capstan
- Tension dancer
- Dual automatic take up
- Electrical control system

Optical fiber special drawing tower

Application

Quartz series optical fiber drawing towers are used to manufacture polarization-maintain optical fiber, large diameter core optical fiber, metal-coated optical fiber, anti-radiation optical fiber, and also to manufacture quartz canaliculus, abnormity tube for photoelectrical parts. Drawing tower is consist of tower frame, perform feeding unit, graphite heating furnace, diameter gauge, auxiliary capstan, coating applicator, curing furnace, fiber tension gauge, capstan, take-up and electrical control system.

Technical Data

- Height of tower — about 7~14m
- Preform size — Φ50mm×1500mm
- Temperature of heating furnace — ≤2200℃
- Speed of drawing — ≤600m/min
- Diameter of product and accuracy — Φ1250—2000nm±60nm

Optical fiber proof-testing and rewinding machine

Application

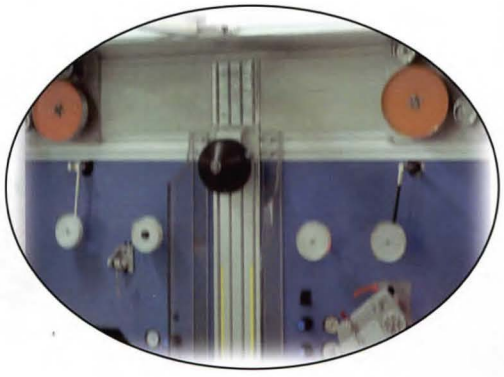
This system is used to test the optical fibre strength and rewinding the fibre.

Technical data

- Line speed — 2100m/min
- Proof tested tension — 5—20±3%N
- Proof test length — 2.5—12M
- Pay-off reel size — Φ550mm×500mm
- Take-up reel size — Φ240mm×300mm

Line configuration

- Optical fibre pay-off
- Pay-off tension dancer
- Fibre proof testing unit
- Take-up tension dancer
- Optical fibre take-up
- Electrical control system



Optical fiber coloring and rewinding machine

Application

This machine is designed for coloring and rewinding the fiber. We adopt auto-tracking traversing unit, pressure coating system, UV auto-adjust power supply, automatically take-up traversing unit. This machine occupies 40% the field of optical fiber coloring around the world.

Technical data

- Construction speed 1500m/min
- Fiber tension 0.3-1.5± 0.05N
- Traversing pitch 0.1-1.0± 0.01mm
- Reel size
  - Reel flange dia 236-300mm
  - Reel width 108-250mm
  - Shaft bore dia 25.4mm
  - Reel weight 10kg
- Metering accuracy ≤1‰
- Additional loss ≤0.02db/km (SM. Fiber)

Optical fiber ribbon machine

Application

This machine is designed for manufacturing optical fiber ribbon.

Technical data

- Line speed 600m/min
- Fiber payoff qty 12
- Ribbon payoff qty 2
- Fiber payoff reel size 25km,50km
- Ribbon payoff reel size Φ4500mm×400mm
- Take-up reel size Φ4500mm×500mm

Optical fiber secondary coating line

Technical data

- Line speed 300m/min
- Tube dia Φ1.7－Φ4.0mm
- Fiber excess length range 0－3‰±0.5‰
- Optical-fiber reel size 25km,50km
- Take-up reel size 800mm

Line configuration

- Optical fiber pay-off
- Oscillating unit for optical fiber
- Jelly degassing and filling device
- Extruding group
- Hot water tank and trough system
- Over-length capstan
- Cooling water trough system
- Blowing dryer
- Diameter gauge
- Caterpillar
- Take-up dancer
- Dual automatic take-up
- Electrical control system

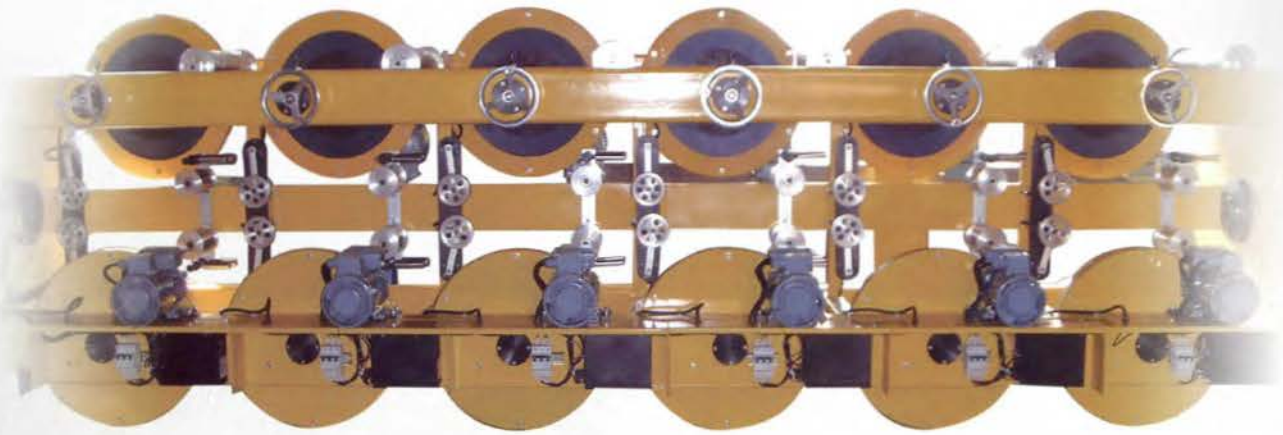
Optical fiber ribbon secondary coating line

Technical data

- Line Producing speed 60m/min
- Ribbon pay-off number 24
- Ribbon pay-off tension 2—6N
- Ribbon strander speed 120rpm
- Ribbon reel size Φ410mm × Φ50.8mm × 391mm
- Tube diameter Φ4.0—Φ10.5mm

Line configuration

- Optical fiber ribbon pay-off strander
- Jelly degassing and filling device
- Extruding group
- Hot water tank and trough system
- Over-length caterpillar
- Cooling water trough system
- Blowing dryer
- Diameter gauge
- Tension unit
- Dual wheel capstan
- Dual wheel tension unit
- Take-up
- Electrical control system



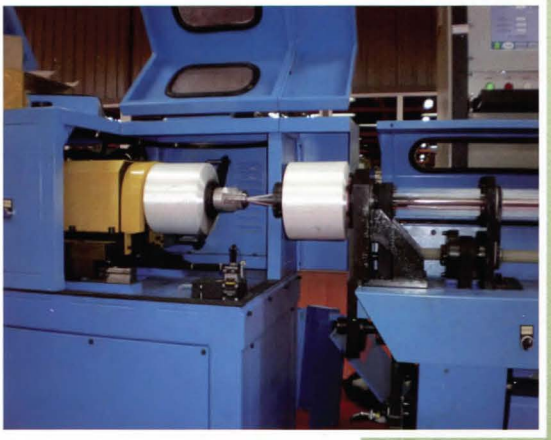
SZ stranding line for optical fiber loose tube

Technical data

- Line speed 80m/min
- Product dia Φ30mm
- Loose tube payoff qty 12
- SZ stranding manner elastic torsion bar
- SZ stranding angle ±18 π
- Binding manner concentric cross-binding
- Binding speed 3000rpm
- Loose tube payoff reel size 800mm
- Payoff/Take-up reel size 1800mm

Line configuration

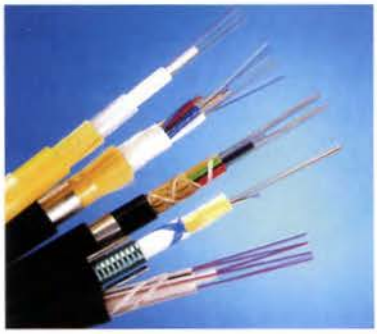
- Strength member pay-off
- Dual wheel tension unit
- Loose tube pay-off
- SZ oscillator
- Concentric cross-binder
- Anti-twisting device
- Jelly-filling device
- Dual tape pay-off and concentric binder
- Dual wheel belt capstan
- Take-up tension
- Take-up
- Electrical control system



Sheathing line

Technical data

- Line construction speed 100m/min
- Cable core dia Φ3.0—Φ25mm
- Product outer dia 30mm
- Pay-off reel size 2000mm
- Take-up reel size 2000mm



Line configuration

- Pay-off
- Tension control unit for central loose tube
- Dual wheel tension unit
- Steel-Aluminum tape pay-off
- Steel-Aluminum tape welder
- Steel-Aluminum tape accumulator
- Jelly filling system
- Swellable tape pay-off
- Steel wire pay-off
- Steel wire alignment device
- Steel tape corrugator
- Steel-Aluminum longitudinal tape applicator
- Extruding group
- Hot water tank and trough system
- Cooling water trough system
- Blowing dryer
- Diameter gauge
- Sparkle test instrument
- Length counter and character printer
- Caterpillar
- Take-up tension dancer
- Take-up
- Electrical control system

Stainless steel optical fiber loose tube welding line

Application

This stainless steel optical fiber loose tube welding line is used for producing special optical fiber loose tube, like OPGW, submarine cables or metal sheath protected cables.

Technical data

- Line speed 45 m/min
- Tube dia Φ2.0—Φ4.2mm
- Optical fiber qty 48
- Fibre overlength 0.05-0.7 % ±0.1 %
- Take-up reel size 1250 mm

Line configuration

- Optical fiber pay-off
- Jelly degassing and filling device
- Stainless steel tape payoff
- Stainless steel tape traversing welding machine
- Stainless steel tape payoff tension
- Stainless steel tape accumulator
- Stainless steel tape longitudinal welding machine
- Stainless steel tape forming table
- Cleaning station
- A flaw detector
- 1200kg Caterpillar
- Tension control unit
- Tube alignment device
- Over-length control unit
- 200kg Caterpillar
- Take-up
- Electrical control system

Tight buffer line

Line configuration

- Optic-fiber pay-off
- Fiber preheater
- Extruding group
- Hot water tank and trough system
- Cooling water trough system
- Blow dryer
- Diameter gauge
- Capstan
- Take-up
- Electrical control system

Technical data

• Line speed	300m/min
• Product dia	Φ0.6—Φ1.0mm
• Optical fiber payoff reel size	25km, 50km
• Take-up reel size	400mm

Premise Jacketing Line

Technical data

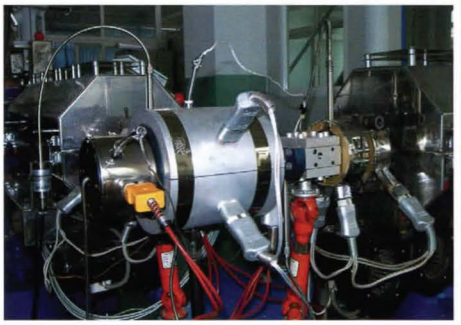
• Line speed	200m/min
• Pay-off for tight buffer fiber qty	24 reels
• Payoff reel	400mm
• SZ oscilating angle	±8 π
• Kevlar pay-off qty	20 reels
• Take-up reel size	1000mm

Line configuration

- Tight buffer fiber pay-off
- SZ oscillator.
- Parallel Kevlar pay-off
- Tight fiber divided and combining device
- Extruding group
- Hot water tank and trough system
- Cooling water trough system
- Blowing dryer
- Diameter gauge
- Wheel capstan
- Take-up tension unit
- Take-up
- Electrical control system

POF co-extrusion Line

Technical data



- Line speed 200m/min
- Material for POF core PMMA
- Material for POF skin resin including fluorine
- Product diameter 0.5—2mm
- Precision of diameter 2%
- Skin ovality 1%

Line configuration

- Extruding group for core plastic
- Co-extruding group
- Vacuum device
- Hot water tank and trough system
- Cooling water trough system
- Blowing dryer
- Diameter gauge
- Wheel capstan
- Take-up
- Electrical control system

Filler extruding line

Technical data

- Line speed 300m/min
- Product dia Φ1.5—Φ3.5mm
- Extruding material PE, LDPE
- Take-up reel 800mm

Line configuration

- Extruding group
- Hot water tank and trough system
- Cooling water trough system
- Blowing dryer
- Diameter gauge
- Capstan
- Accumulator
- Dual automatic take-up
- Electrical control system

Line individual components

Optical fiber payoff

Jelly degassing machine

Parallel Kevlar payoff

Steel/Aluminum tape longitudinal applicator

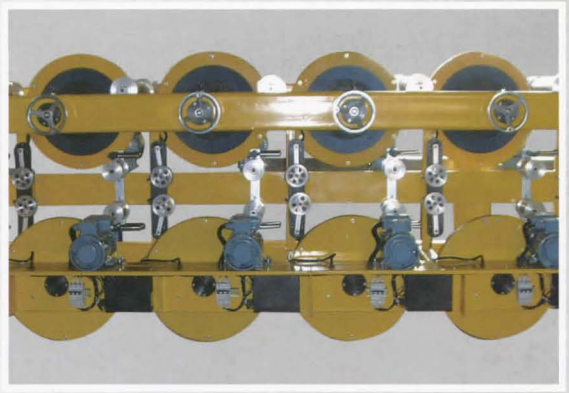
Tight buffer fiber payoff

Stranding Kevlar server

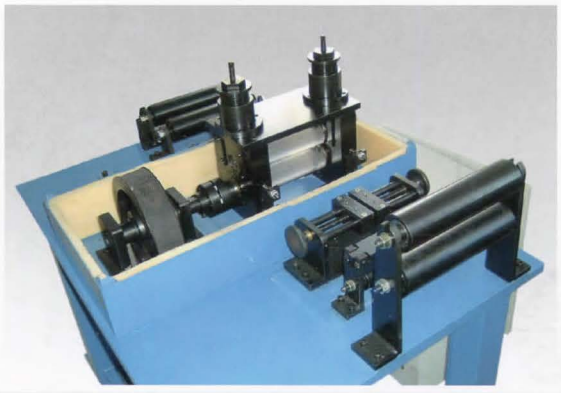
Pay-off/Take-up

Caterpillar

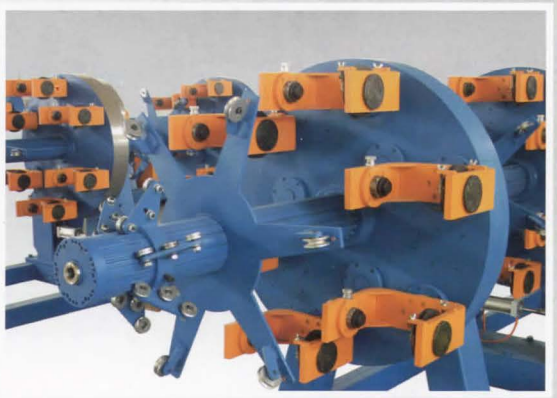
Dual automatic take-up



Optical fiber ribbon strander



Steel/Aluminium tape corrugator



Steel wire armoring cage

ZTT CABLE

ZTT is a leading and global manufacturer of cable systems, which provides package solutions for telecommunication and power applications around the world. With its rich heritage of highly advanced R&D results, ZTT owns the cutting-edge technology within the industry.

ZTT was established in 1992 and became a listed company in 2002. Up to now, ZTT has developed to be a Group Company with 26 subsidiaries in China. Our products are widely used in telecommunication industry, power transmission industry, mining cable industry, marine and submarine cable industry, railway industry, cable manufacturing and so on.

ZTT has always committed to be market-oriented, meeting various demands of our customers and providing economical & reliable solutions. With innovative product design, ZTT can also guarantee the high-end engineering capabilities and life cycle maintenance services.

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