

**CIRCON**

CONTRACTING AND SUPPLY



# Overview



- Circon began operating in Egypt in 2015. After years in the cable laying industry, we realized it was near impossible that the Egyptian market would thrive under its previous "old school" conditions. Traditional methods used by developers and contractors were simply too complicated, time consuming and expensive to manage and not safe for cables.
- We established Circon with the customer's interest in mind. We wanted to offer a platform that best serves the Electric power, Telecommunication, and Construction industries.
- Today, we became the executive distributors for OMAC, Fremco, and Pro-Foam in Egypt. Moreover, we became official distributor for FITEL splicing machine.
- We operate in the telecommunication industry and cable laying/ Electric distribution and electric networks (overhead and underground) industry.



- **Circon scope of supply:**

1. Supply of Wide range of Cable Laying Accessories and Winches.
  2. Supply of All types of Fire Fighting Foam.
  3. Supply Fiber cable machines and equipment
- Recently we became the exclusive distributor / sole agent of OMAC, PROFOAM and FREMCO in Egypt, and official distributor for FITEL splicing machines

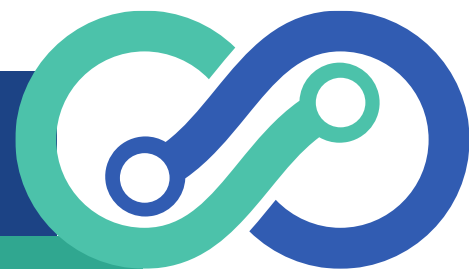
# About Pro-Foam



- PROFOAM INTERNATIONAL has been established in Paris in February 2003
- An experienced team in charge of worldwide sales assists and advises international end users in the correct choice of foam compounds and also ensures that their specific requirements conform to the relevant international standards and regulations.
- All products are Class A, NF EN 1568-2000 certified.



# Fire Fighting Foam Pro-Foam



- A full range of protein and synthetic based foam compounds have been developed by Pro-foam chemists to efficiently fight all types of hydrocarbon and polar solvent fires.
- These include:
  - Protein and Fluoroprotein based foams
  - Hi-Ex synthetic based foams
  - Film forming foams, synthetic and protein based
  - Pseudoplastic and Newtonian Alcohol-Resistant foams, protein - and synthetic based
  - Class A foams



# About FITEL



- Furukawa Electric was founded in Japan 1884
- It manufactured the world's first optical fiber cable in 1974
- Furukawa has led the development of optical fibers by establishing a total production system for products ranging from high-performance silica-based optical fibers to a variety of optical fiber cables manufactured under the brand name "FITEL".
- The Fitel brand has expanded to include not only optical components, but also , fusion splicers, connectors and various optical-related products.

**FITEL**<sup>®</sup>  
FUSION SPLICERS



**FURUKAWA**  
**ELECTRIC GROUP**

# Fiber cable Splicing machine FITEL



## FITEL® Fusion Splicer

### Features and Benefits

- Exceptional performance for fast and consistent fiber splicing
- Enhanced ease of use and portability
- High-speed splicing and heating<sup>1</sup>
- Ruggedized body design
- Easy, intuitive operation
- Compatible with Splice-On- Connectors (SOC)
- State-of-the-art communication methods
- Quick and easy maintenance



# About OMAC



- OMAC is an Italian company
- Design, produce and market the best range of stringing machines and equipment is the core business of OMAC since 1954, year of its establishment.
- One of the leading suppliers in the field of technology for the laying of cables in more than 80 countries all over the world





# Underground cable laying winches



- Pulling winch fit for underground cable installations
- Hydraulically powered by means of a diesel engine.
  - Max pull: 2-100 Tons
- Electronic instrument displays:
  - 1) The pulling force
  - 2) Meter counter
  - 3) Speed counter
  - 4) Operating hours.
- Device fit for setting of max pulling force.



# Models



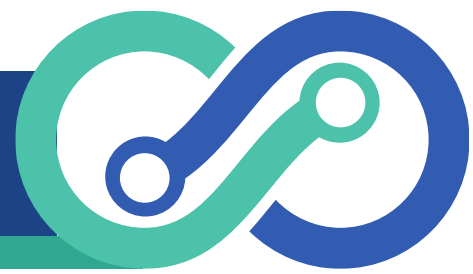
# Underground Pipe renewal winch



- Pulling winch fit for pipe renewal
- Hydraulically powered by a diesel engine
  - Max pull: 60 Tons
- Electronic instrument displays:
  - 1) The pulling force
  - 2) Meter counter
  - 3) Speed counter
  - 4) Operating hours
- Devices fit for independent settings of pulling force and constant pulling speed.



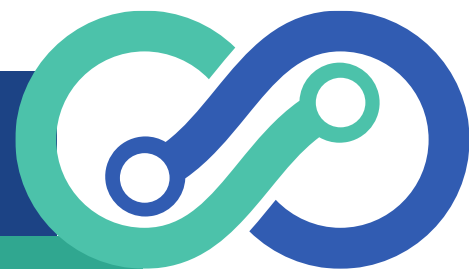
# Cable recovery hydraulic winch



- Designed to remove old or redundant armored telephone cables of up to 80 mm in diameter, mainly for duct reclamation allowing installation of fiber optic cables, but also for recovering old cables for recycling.
- The winch is driven by a diesel hydraulic power-pack which is totally enclosed within a coverage thereby limiting noise emission.
- The machine is mounted on damped trailer and it is complete with stabilizing jacks.



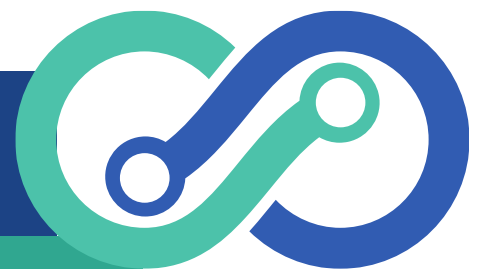
# Puller winches for overhead lines stringing



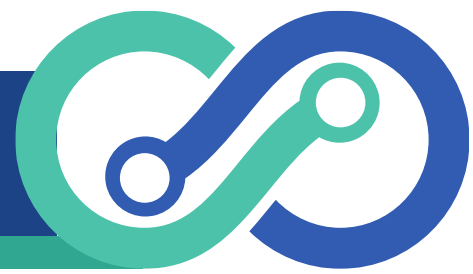
- Hydraulic puller for stringing operations of overhead transmission lines.
- Hydraulically powered by a diesel engine  
Max pull: 2-28 Tons
- One hydraulic circuit allows to continuously vary the speed in both directions by operating one control device.



# Models



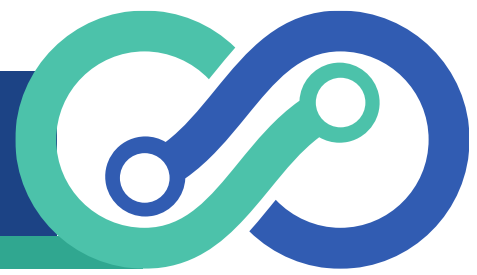
# Tensioner winches for overhead lines stringing



- Hydraulic tensioner fit to string 1, 2, 3 or 4 (up to 6 on demand) conductors or OPGW of overhead transmission lines.
- Adjust the tension of the conductors at constant force even varying the stringing speed.
- Include hand brake, front share, rear stabilizers and anchor attachments.



# Models





# Tensioners-puller winches for overhead lines stringing



- Hydraulic machine suitable to operate as a tensioner or as a puller to string or recover the conductors or OPGW of overhead transmission lines.
- The machine is powered by an hydraulic circuit which allow to adjust the tension of the conductors at constant force even varying the stringing speed.
- In puller mode, one hydraulic circuit allows to continuously vary the speed in both directions.



# Models



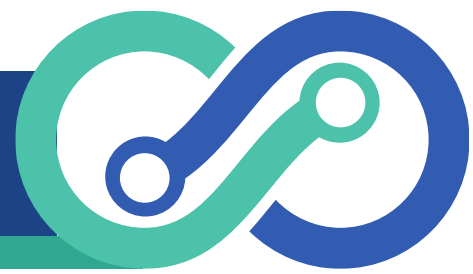
# Civilian Cable Laying Systems



- Fiberglass Rod: 3-6 mm (10-80 m)
- Cable duct rodding system: 4–4.5-5.2 mm (10-30 m)
- Polyester spare rod: 4 – 4.5 -5.2 mm (10-30 m)
- Nylon fishtape: 3-4 mm (5-30 m)
- PERLON fish-tape: 4 mm (5-30 m)
- Flat steel fish-tape/rod: (5-60 m)
- Steel wire rod: 4-5 mm (5-60 m)



# Industrial Cable Laying Systems

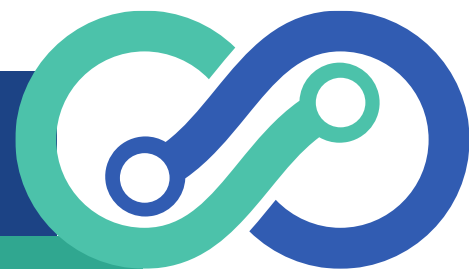


- Fiber glass rod (Band/ Snack) : 4.5-5.8-6-7.5-9-11-15 mm (20-450 m)
- Cable duct rodding system: 4–4.5-5.2 mm (10-30 m)

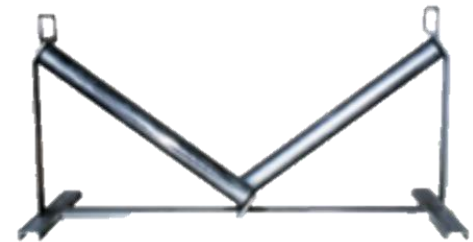
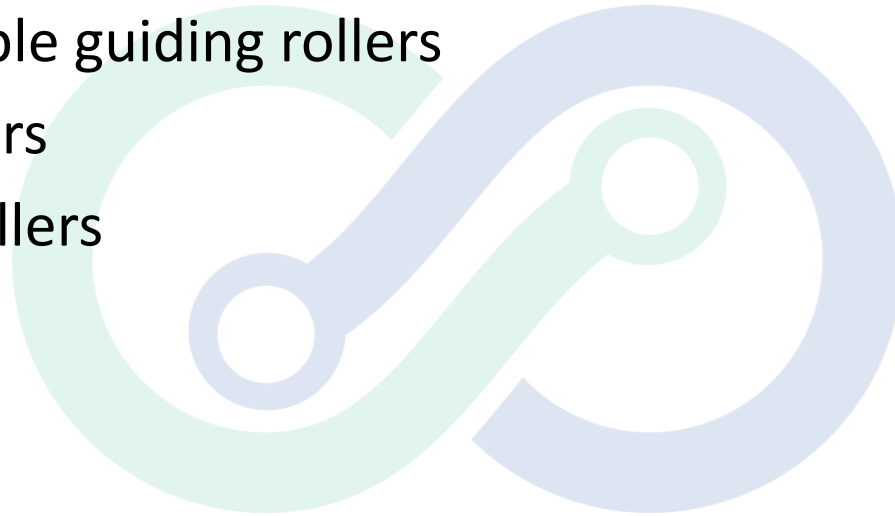


# Cable Laying Accessories

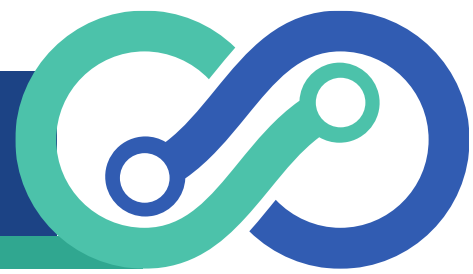
## Rollers



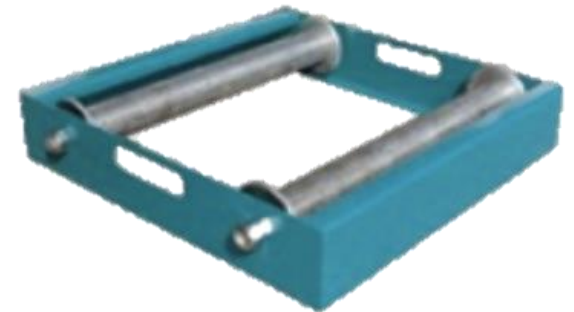
- Ground Rollers
- Multiple Cable guiding rollers
- Corner Rollers
- Manhole Rollers



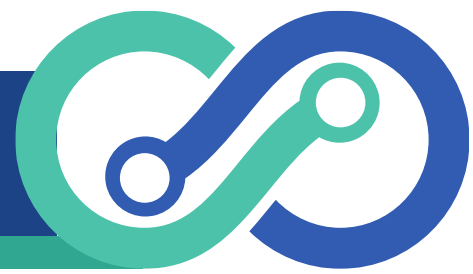
# Reel Stands



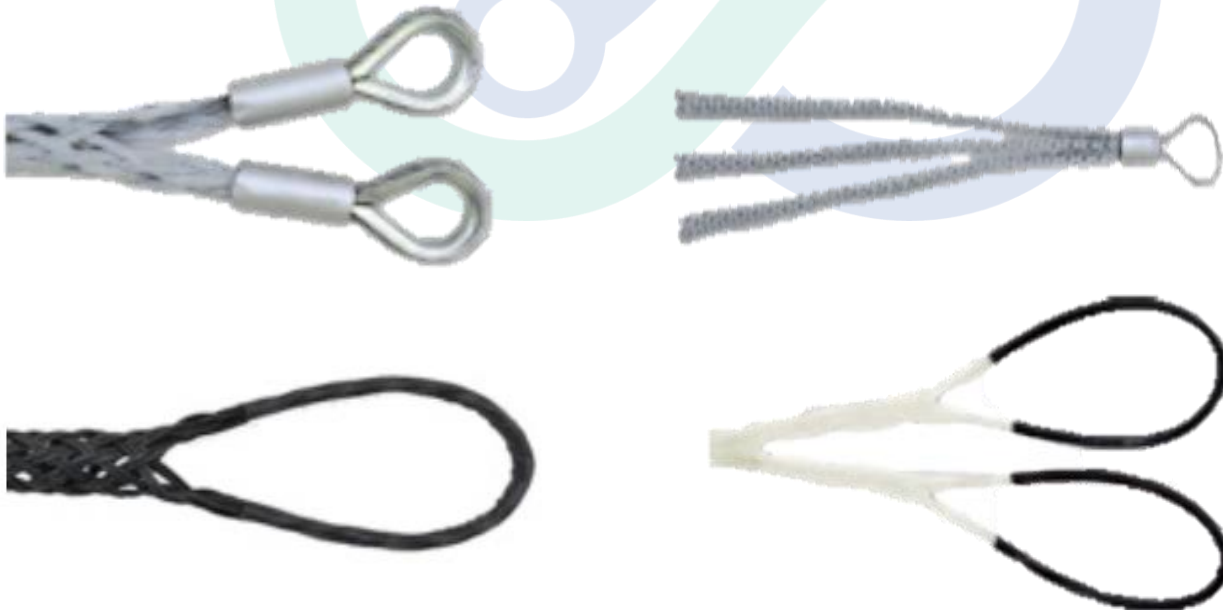
- Stands fit for steel or wooden reels, used for lifting a reel and braking it while stringing the conductor/cable.
- The reel stands, as an option, can be hydraulically driven by a hydraulic power unit.



# Cable Socks



- Cord grips are used to pass a cord or cable into an enclosure, through a bulkhead or into a control device like a switch.
- They are used in industrial and commercial settings to control arc of bend or prevent a cable from being pulled out of a system.
- They also prevent cable damage and failure.

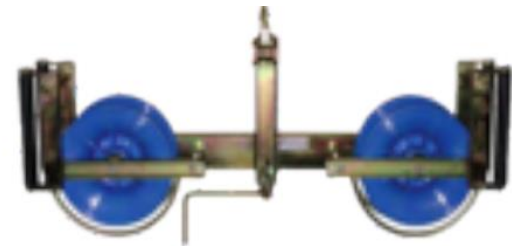


# Pulley's

## Pulley blocks fit for stringing



- Copper or aluminum LV aerial conductors -insulated twisted cables LV
- Insulated twisted cables LV - insulated aerial MV conductors
- Aerial telephone cables
- Aerial copper, aluminum, aluminum /steel conductors
- Aerial aluminum or aluminum /steel conductors of HV lines





# About Fremco

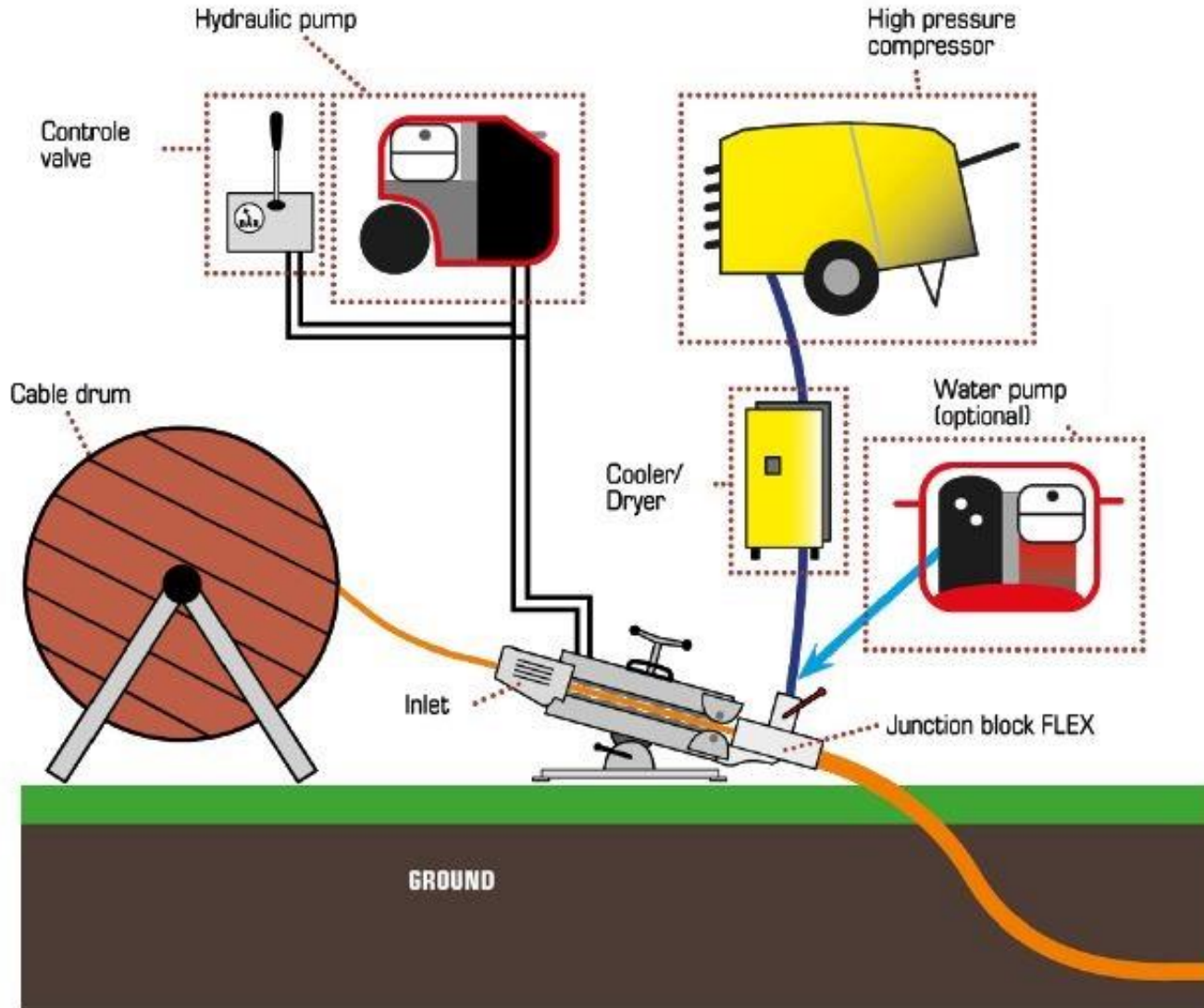


- Fremco is an innovative 100% Danish company.
- Since the mid '90s Fremco has specialized in the development and production of fiber blowing machines of exquisite quality.
- This means that Fremco today offers a range of products covering all dimensions of fibercables and ducts.



# Power source overview

## FRESCO



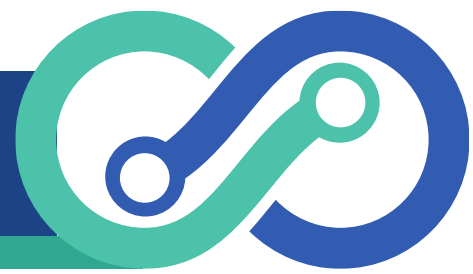
# Pulling vs Blowing FREMCO



## PULLING VS BLOWING



# Pulling vs Blowing FREMCO



- Less man power required: ex. 1-2 men to fiber blowing and 6-10 men for the same job by pulling
- Longer distance per day: from 2 -8 km per day by fiber blowing vs from 100 m up to 500 m a day by pulling
- No stress on the cable by fiber blowing-less risk of expensive claims

# Fiber optic Machines

## FRESCO



- **Nano Flow**

- For cables OD 0.8 - 3 mm , For Ducts OD 3 - 10 mm
- Fully Automatic
- Blowing distance up to 1,200 m
- Max speed: 150 m/min
- Unique double fiber protection



- **Nano Flow Max**

- For cables OD 0.8 - 4.5 mm , For Ducts OD 3 - 12.7 mm
- Fully Automatic
- Blowing distance up to 1,200 m
- Max speed: 125 m/min
- Unique double fiber protection

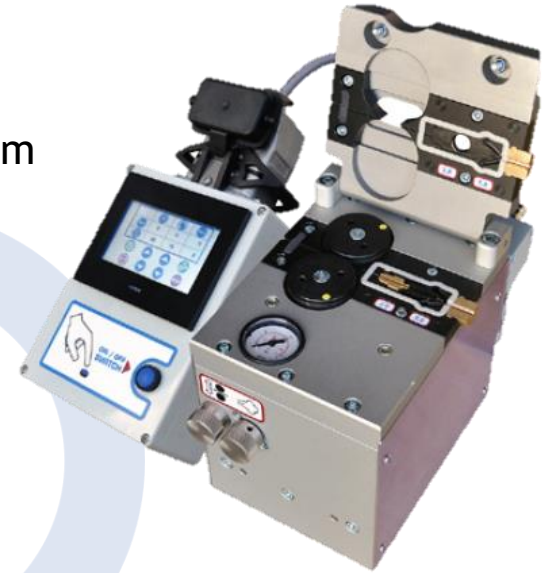


# Fiber optic Machines

## FRESCO



- **Micro Flow**
  - For cables OD 0.8 - 6.5 mm , For Ducts OD 4 - 16 mm
  - Blowing distance up to 2,500 m
  - Max speed: 90 m/min
  - Auto-Buckle detection
- **Mini Flow Rapid**
  - For cables OD 3 - 12 mm , For Ducts OD 7 - 20 mm
  - Blowing distance up to 3,500 m
  - Hydraulically Driven with pushing Force 40 kg
  - Max speed: 100 m/min



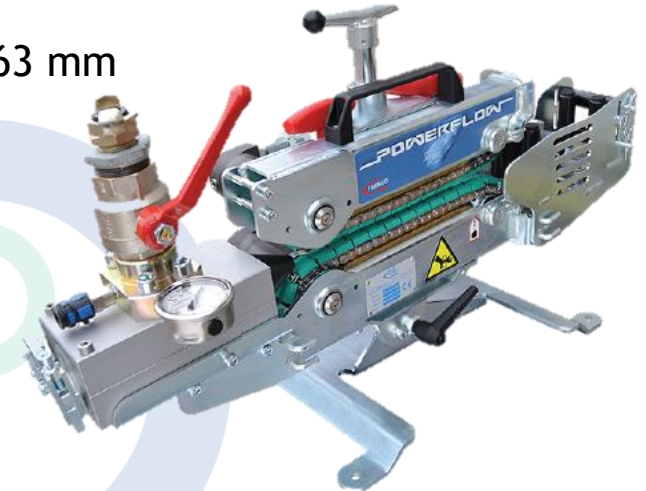
# Fiber optic Machines

## FRESCO



- **Power Flow**

- For cables OD 5.5 - 25 mm , For Ducts OD 10 - 63 mm
- Blowing distance up to 10,000 m
- Hydraulically Driven with pushing Force 125 kg
- Max speed: 80 m/min
- Used for single cables



- **Multi Flow**

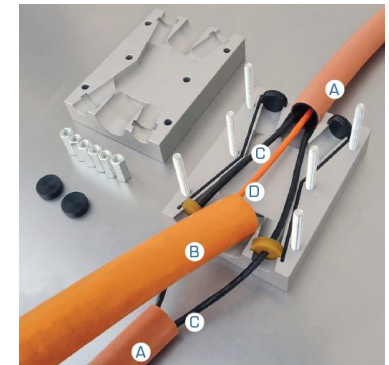
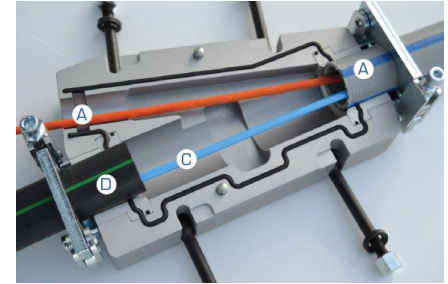
- For cables OD 5.5 - 32 mm , For Ducts OD 10 - 63 mm
- Blowing distance up to 10,000 m
- Used for relining or single cable
- Possibility to install Mirco-ducts
- Hydraulically Driven with pushing Force 200 kg
- Max speed: 80 m/min



# Fiber optic Accessories



- Y-Connector
  - Used for installing a cable into an occupied duct
- X-Connector
  - Used for installing a cable into an occupied duct
- Hydro-cab
  - Accessory for cable installation with water (floating)





# Fiber optic Accessories



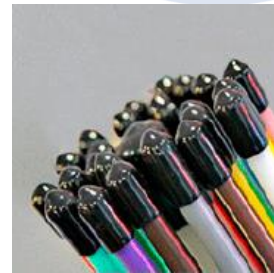
- Mirco-duct
  - Primary used to protect tele-communication cables
  - Available as single pipe (Microduct mono) OD 5 - 20 mm or as a bundle pipes (Microduct multi) OD up to 66.8 mm
- Macro-duct multi : 32 - 50 mm



# Fiber optic Accessories



- Connector
- Reducer
- End-stop
- Endcaps
- Divisible duct seals
- Micro duct cutter



# Products we supplied



1. Heavy Equipment import and supply.
2. Safety Equipment import and supply.
3. Gland Spanners
4. Reel Stands
5. Minirator
6. Impedience Meter
7. Loop checker cable tracer
8. Live line maintenance tools
9. Fire fighting Suits, Helmets, Gloves and Boots
10. Hydraulic Cable pulling winches (Diesel Engine).
11. Hydraulic Reel stands.
12. Anti-falling material
13. FFFP Foam concentrate 3%
14. Light current patches
15. Cable laying rollers
16. Air Fiber Blowing Machines
17. FITEL Splicing Machines

# References



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**Thank You**