ElectroFOK

Drillfok Fiber Optic Cable Blowing Machine

HISTORY

Our company has been in the machinery and machinery spare parts manufacturing sector since 1994. Since 1999, almost all of the fiber cable blowing works in Turkey have been done using fiber optic cable blowing machines produced .
It continues its R&D activities on fiber blowing machines and revisions are made according to customer requests.
Fiber optic cable blowing machines produced are used in many countries of the world, especially in Italy, the Netherlands, Uruguay, Holland, Germany, England, African Countries, Canada, USA, Syria, Iraq, Romain, Bulgaria, Kazakhistan, Libya and Suudi Arabia.

OUR UNDERSTANDING OF QUALITY;

Based on the principle of customer satisfaction first, our focus is to fully perceive customer demands and expectations and provide complete products and services accordingly,
To achieve this goal;
-Continuously improving product quality, reducing costs while increasing product qualities,
-To fully meet technological infrastructure and personnel information needs,
-Aiming for continuous improvement as a whole with the participation of employees.

OUR MISSION

To be the first choice of our customers with our products, solutions, after-sales services, reliability and high business ethics.

OUR VISION

To be a leader in its country and a preferred company in the world with its organization that that makes makes a name for itself in the technological developments in the sector in which it produces products and services, adds value to the lives of its customers and the society in which it operates, is admired for its performance in the solution partnerships it establishes with its customers, and adopts sustainable development as its working culture.

ELECTROFOK MACHINE

ElectroFOK has an electrical motor. This electric motor enables variable speed and torque adjustment for different cable diameters.In this way, you can perform your cable blowing process with high efficiency

The ElectroFOK installs micro cable with a diameter range of Ø1 to Ø8 mm and up to 1000 m with a speed of 90 m/min depending on your electrical motor.

Its compact design makes your business incredibly easy. The cable blowing system structure ensures a fast and simple change of components for various cable diameter or duct diameters.Ergonomic design and mobility features make the ElectroFOK is ideal for either outside or in-building use.

The ElectroFOK uses compressed air to install the cable.

There is a piece HDMI Panel for you to follow the work done in the ElectroFOK. In this panel the electric motor is directed to push or pull the cable. In additional, You can follow on this panel; the cable lenght blowen, cable blowing torque and cable blowing speed.

ELECTROFOK CONTENT

CONSIST OF:

- 1set (2pcs) of Rubber Coated Roll
- 1pcs 4,3” Touchscreen HDMI PANEL
- 1pcs 24V DC Electrical Motor

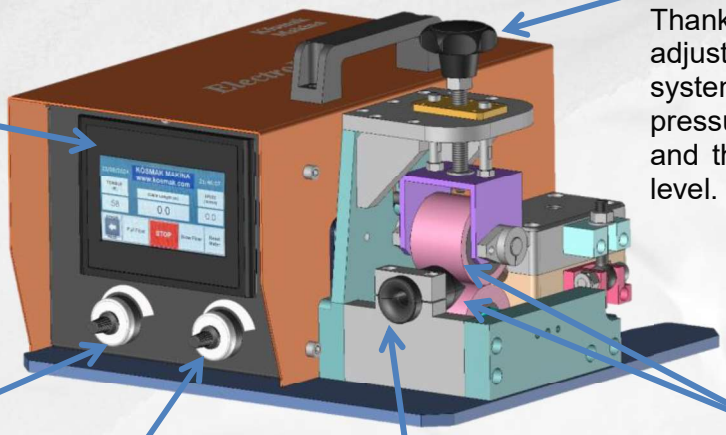
NOT INCLUDING WITH MACHINE:

- Lubricant Oil
- Air Compressor

INCLUDING WITH MACHINE:

- 1pcs Operator Guide
- 1pcs Cable Inserts: Options Ø1,5mm to Ø8mm
- 1set Duct Inserts
- 30pcs Blue Nutring (6pcs per Cable Dia)
- 2m Black Rubber O-Ring
- 1pcs Protected Wooden Case with holder
- 1pcs Quick Insert AirJack

SPECIFICATIONS OF ELECTROFOK



Roll Pressure System

Thanks to the manually adjusted Roll pressure system, you can adjust the pressure between the rolls and the cable at the desired level.

HDMI Panel

HDMI Panel has been added to the ElectroFOK so that you can follow the work done with the machine digitally.

Drive Rollers

There are two rubber coated drive rollers to blow the micro cables.

Torque Control Key

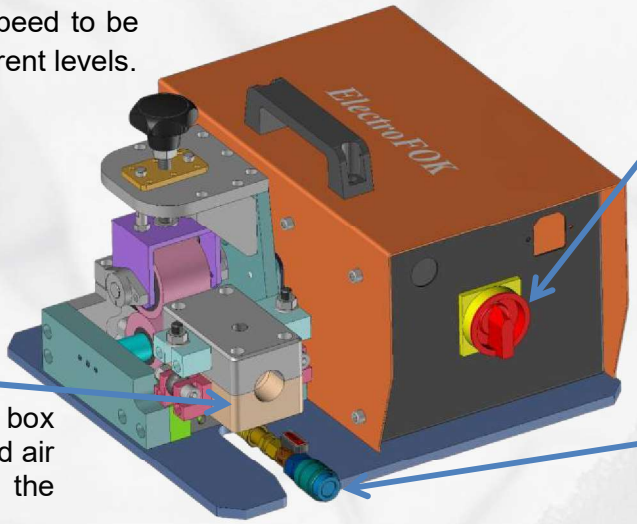
This button allows the cable blowing speed to be adjusted at different levels.

Cable Aligning Parts

These parts help the micro cable to enter the drive rollers smoothly.

Speed Control Key

This button allows the cable blowing speed to be adjusted at different levels.



Main Switch

Used to turn the machine on/off and energize/de-energize the electric motor.

Automatic Quick Coupler

Thanks to the quick coupler, the compressor hose can be easily connected and removed from the machine.

Exit Box

The specially designed exit box ensures that the compressed air is directed efficiently into the HDPE pipe.

Remote Control

This remote control allows the machine to be controlled remotely. There are 4 buttons on it:

1R : Operates the machine in the cable pushing direction
2R : Operates the machine in the cable pulling direction
3R/4R : Used to stop pushing or pulling the cable

TECHNICAL DATA

Operating with	Electrical Motor
Micro Duct Diameter (mm)	Ø4 to Ø18
Cable Diameter (mm)	Ø1 to Ø8
Max. Operating Pressure	15 Bar
Meter Indicator	Digital
Blowing Direction	Forward & Backward
Quick Connection	Pipe from Compressor
Max. Blowing Distance (m)	1000m
Blowing Speed (m/min)	90 (depends on external motor's speed capacity)
Weight without Package (kg)	17,8
Weight with Package (kg)	24,1
Dimensions with Package (cm)	41 x 41 x 32

COMPRESSOR CAPACITY RECOMMENDATION

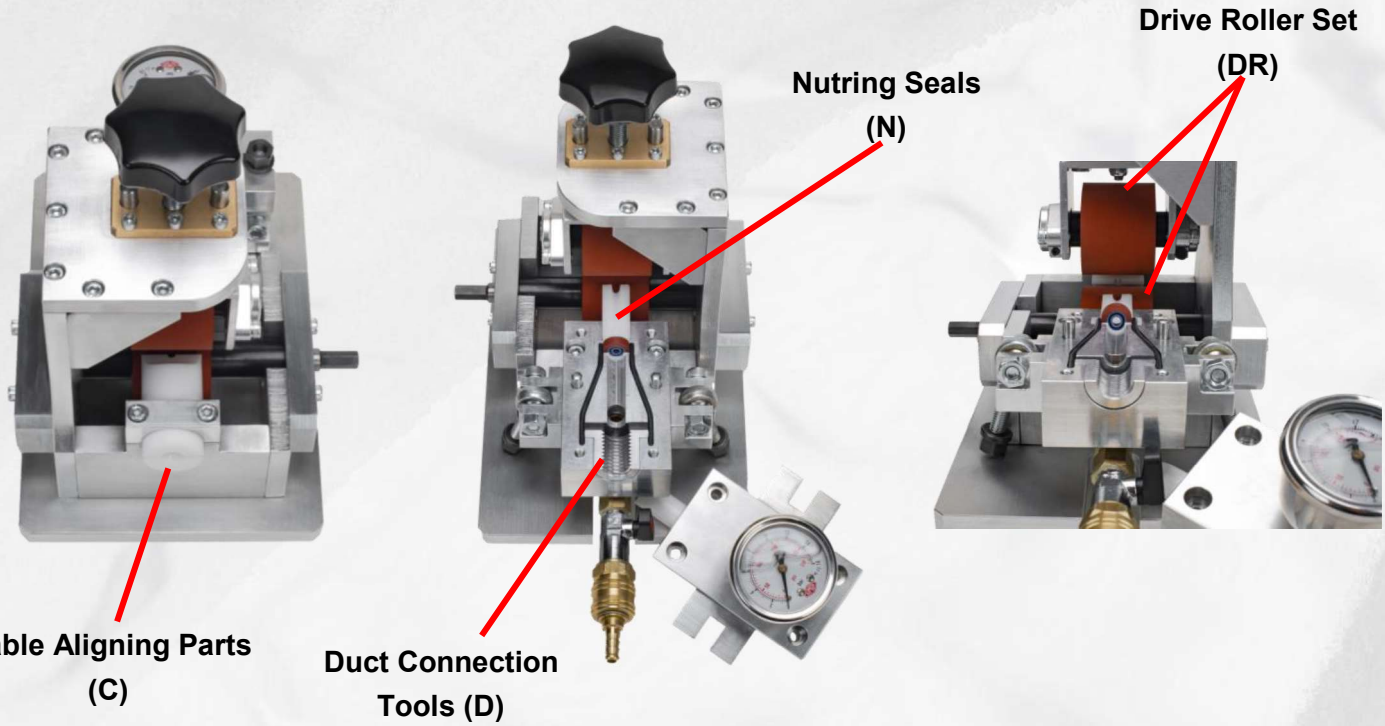
Ducts upto 8mm – 0,8 m^3/min

Ducts upto 8-12mm – 1,0 m^3/min

Ducts upto 12-15mm – 1,5 m^3/min

These are minimum compressor requirements. You may use higher capacity of compressor which can increase the effectiveness. You can overcome the handicap of inproperly installed ducts.

ELECTROFOK ACCESSORIES



Drive Rollers (mm)	Cable Aligning Parts (mm)
DR1 : Ø1 - Ø2	C1 : Ø1 – Ø2
DR2 : Ø2,5 - Ø4	C2 : Ø3 – Ø4
DR3 : Ø5 - Ø8	C3 : Ø5 – Ø6
	C4 : Ø7 – Ø8

Nutring Seals (mm)	Duct Connection Tools (mm)
N1 : Ø1	D1 : Ø4
N2 : Ø2 - Ø2,5	D2 : Ø8
N3 : Ø3	D3 : Ø10
N4 : Ø4	D4 : Ø12
N5 : Ø5	D5 : Ø14
N6 : Ø6	D6 : Ø16
N7 : Ø7	D7 : Ø18
N8 : Ø8	

1 set of Drive Roller Set + 1 set of Cable Aligning Tools + 1 set of Nutring Seals + 1 pcs Duct Connection Tool is included.

OPERATION MANUAL

1) Selection Nutring

Figure 1

Figure 2

Figure 3

Figure 4

First measure cable diameter with callipes (figure 1). The inside diameter of cable's seal's (figure 2) must be same with cable's outside diameter also cable seal need to work slippery on cable to not to make air leakage.Cut cable seals as you see on figure 4 to not to make air leakage.

Note: You need to inform us cable diameter with machine order. Canals of the selected cable seals must locate to the installing way of cable. If not ,you can not use compressed air productively. Touch faces of black o-rings with cable seals must be cutted angular (figure 4)

2) Selection of micro cable blowing apparatus

Figure 5

Figure 6

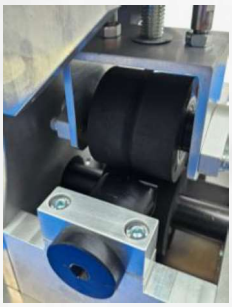


Figure 7

Figure 8

Step 1 : Choose the Nutring Seal for cable diameter that you will blow (figure 6) and set in to the exit box correctly.(figure 5)

Step 2 : Chose the cable aligning part for cable diameter that you will blow (figure 8) and set in to the entry side of machine correctly (figure 7)

3) Montaging the HDPE pipes on machine

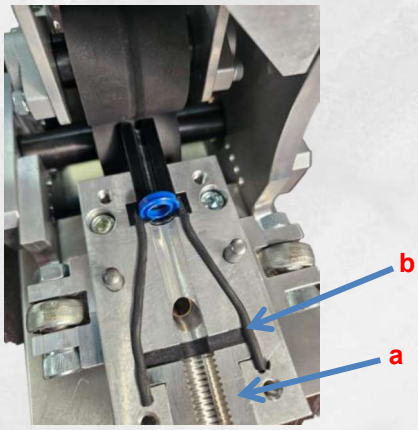


Figure 9

Figure 10

Note: You must inform us your HDPE diameter that you will install with your Drillfok order.

Choose and place inside the block, the duct adapter of appropiate size (figure 9-a)

Canals of the selected cable seals must locate to install way of cable. If not, we can not use compressed air productive which comes from compressor (figure 9-b).

Touch faces of black o-rings with cable seals must be cutted angular.

4) Output box axis line setting for using different cables

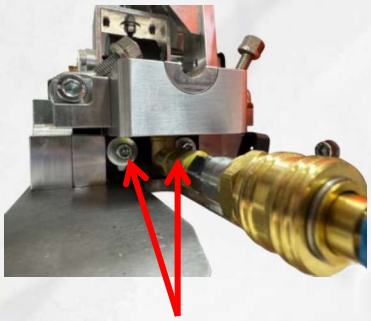


Figure 11

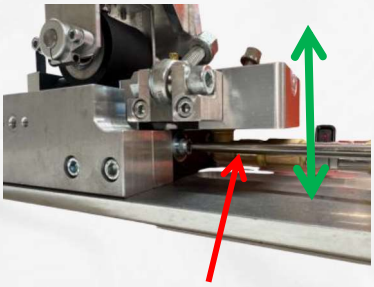


Figure 12

For adjusting the height of the exit box axis according to the diameter of chosen cable:

1) Loosen the to bolts (figure 11) with an allen werench (figure 12).

2) Adjust the cable blowing axis by moving the exit box up or down in the direction of the green arrow (micro cable should be straight).

3) After adjusting the axis, tighten the bolts again to complete the installation

Note: If you inform our company about your cable diameter before you buy machine, machine axis will the setted by our company. When you will blow different cable diameter, you will have to set axis as we explained up wrench set will be given with machine.

5) Last Step for Cable Blowing

Figure 13

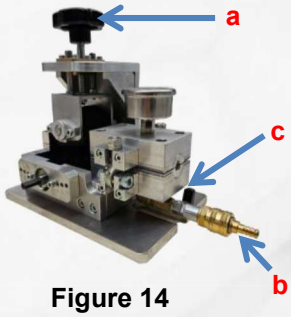


Figure 14

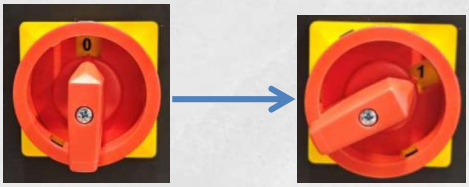
1) Connect, quick connect, part b; supplied as standart with the machine (figure 13-b) to the compressor. Make connections with the compressor off. On the body of the machine is assembled the quick coupling part Figure 14-b. Connect the two parts that figure 13-a and figure 14-b. To introduce air and thus pressurize the hose, open the air key on the compressor.

2) Slide the cable forward with your hand. (If the electric motor activated before this, the cable can be driven into the duct by operating the electric motor in the forward direction)

3) Through the use of the adjustment knob (figure 14-a), set the cable pressure

4) Next, open the valve (figure 14-c) to help blow the cable inside the tube.

6) Operating The Machine with HDMI Panel



Turn the main switch from position “0” to position “1” to power the machine and open the HDMI panel. (Figure 15)

Figure 15 – Main Switch

Figure 16 – HDMI Panel Homepage

The work done on the machine and the motor are controlled through this panel.(Figure 16)

Buttons

Blow Fiber : Used for blowing Micro Cable into HDPE pipe

Pull Fiber : Used to pull micro cable back through HDPE pipe

Stop : Used to stop the machine
Reset Meter: Press 3 seconds for reset the “Cable Lenght”.

Cable Lengh : Indicates how many meters of cable is blown into HDPE pipe

Speed : Shows your instant cable blowing speed. The speed can be adjustable by using right button (Figure 16 – a)

Torque : Shows your instant cable blowing torque. The torque can be adjustable by using left button (Figure 16 – b)

Other Page : Allows you to switch to the parameter settings page

Figure 17 – Parameter Settings Page

Various parameter settings of the machine are made on this screen (language, sensor setting, clock and time setting, etc.)

Buttons

Date-Time : Used to set the date and time

System Menu : This is where the basic software settings of the machine are located. Do not click unless necessary.

English-Türkçe : Allows you to change the system language to English or Turkish.

Distance Measuring : This sensor is activated when the rollers in the machine skid and the cable stops blowing. You can deactivate this sensor by clicking on the green icon (the green icon will turn red).

Turnback Button(figure 17-a) **:** Allows you to return to the HDMI panel homepage