

PRODUKTÜBERSICHT

Glasfasereinblasmaschinen



PATENT PENDING

ACCU

110/230 V

110/230 V

230 V

Model	NanoFlow MAX	MicroFlow Touch	MicroFlow LOG	EasyFlow SMART
Typ. Einsatzgebiet	NE4/NE3a	NE4/NE3	NE4/NE3	NE3/FTTA
Faser-/Kabel Ø	0,8-4,5 mm	0,8-6,5 mm	0,8-6,5 mm	4-16 mm
Röhrchen Außen Ø	3-12,7 mm	4-16 mm	4-16 mm	8-40 mm
Teile Nr. #	101-190911001	101-10051	101-171001001	101-211129001
Max Speed	125 m/min (410 ft)	90 m/min (295 ft)	90 m/min (295 ft)	80 m/min (260 ft)
Schubkraft	0-2 kg	0-12 kg	0-10 kg	0-30,6 kg
Einblas-Reichweite	Bis zu 1.200 m	Bis zu 2.500 m	Bis zu 2.500 m	Bis zu 3.500 m
Empfohlener Luftstrom	200-400 l/min (7,1- 14,1 cfm)	200-500 l/min (7,1-17,7 cfm)	200-500 l/min (7,1-17,7 cfm)	1,000-12,000 l/min (35,3-423,8 cfm)
Max. Druck	10 bar (150 psi)	16 bar (230 psi)	16 bar (230 psi)	16 bar (230 psi)
Länge Breite Höhe Gewicht	212 mm 104 mm 139 mm 2,8 kg (ohne Akku)	Maschine: Control Box: 250 mm 200 mm 150 mm 150 mm 220 mm 80 mm 10,5 kg 1,2 kg	Maschine: Control Box: 250 mm 240 mm 150 mm 250 mm 220 mm 80 mm 10.5 kg 2.9 kg	400 mm 620,5 mm 340 mm 44 kg
Servicebedarf	Jährlich	Jährlich oder alle 350000 m	Jährlich oder alle 350000 m	Jährlich
Besondere Eigenschaften	<ul style="list-style-type: none"> • Vollautomatisch • Einzigartiger zweifacher Faserschutz • Akkubetrieb • Einstellbare Klemmkraft • Werkzeuglos bedienbar • Leicht aber kraftvoll 	<ul style="list-style-type: none"> • Faserbiegeerkennung • Einstellbares Drehmoment • Voreinstellbarer automatischer Halt • Einstellbare Einblasgeschwindigkeit 	<ul style="list-style-type: none"> • Faserbiegeerkennung • Einstellbares Drehmoment • Zugang zu OptiCloud • Jobdokumentation & Wartungsplan • Einstellbarer autom. Halt • Einstellbare Einblasgeschwindigkeit 	<ul style="list-style-type: none"> • Vollautomatische Einblasmaschine • Faserschutzsystem • Vollautomatisch geregelter Luftstrom • Werkzeuglose Einrichtung

Specifications and descriptions are subject to change without prior notice. Spezifikationen und Beschreibungen können sich ohne Vorankündigung ändern.

PRODUKTÜBERSICHT

Kabel- & Röhrengroßen



Kabel-Ø mm	FTTx	ACCESS NETZ
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0-1	NanoFlow MAX Faser Ø: 0,8-4,5 mm Röhrenchen Ø: 3-12,7 mm	MicroFlow TOUCH Faser Ø: 0,8-6,5 mm RöhrenchenØ: 4-16 mm	MicroFlow LOG Faser Ø: 0,8-6,5 mm Röhrenchen Ø: 4-16 mm	 EasyFlow SMART Faser : 4-16 mm Röhrenchen Ø: 8-40 mm
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NANOFLOW MAX

Fiber blowing machine for FTTH fibers (EFBU) and micro cables up to 4.5 mm

Adjustable clamping force

Secures grip around cable/fiber during installation.

Tool free installation

Easy to open and close by hand with quick load of fiber and duct. Adjustable speed and torque. Battery-powered (independent of 100V/240V).

LED display

Showing speed, distance, fiber protection and battery information.

Unique fiber protection technology

If the maximum recommended load on the fiber exceeds the preset torque, the machine stops the blowing process immediately without damaging the fiber.

Tested in accordance to IEC standards

INCLUDED

- 2 x 24V 2.0 Ah Lithium-ion battery with quick charger
- Filter and water separator
- 1 adaptor plate set. Select between the following standard sizes: 3.3, 3.8, 4.1, 4.3, 4.8 mm
- Steel drive wheel for fibers + 3 mm
- Drive wheel for fibers 0.8 - 3 mm
- Duct adaptors for 3, 5, 7, 8, 8.5, 10, 12, 12.7 mm

POSSIBLE ACCESSORY ADD-ONS

Tripod with quick adaptor

Item No.: 103-161127005

Shoulder strap

Item No.: 103-160601074

Reel holder arm for pre-connected fiber

Item No.: 103-171020001

Steel drive wheel for up to 3 mm fiber

Item No.: 103-170515001

24V 4.0 Ah Lithium-ion battery

Item No.: 103-160601043

A wide selection of adaptor plates for any fiber/duct sizes on request

SPECIFICATIONS

Item No.:	101-190911001
Cable diameter:	0.8-4.5 mm
Duct diameter:	3-12.7 mm
Blowing distance ¹ :	Up to 1200 m
Blowing speed ² :	Up to 125 m/min
Pushing force:	0-2 kg
Recommended pressure and airflow ³ :	Max. 10 bar (200 l/pr. min.)
Weight:	3.5 kg
Length:	212 mm
Width:	104 mm
Height:	139 mm

¹) Depending on type of microduct and cable size. When blowing fibers above 3 mm, blowing distance is reduced.

²) Depending on type of microduct and cable.

³) Cooled and dried air.



110/230 V

MICROFLOW TOUCH

Fiber blowing machine for FTTH fibers (EPFU) and micro cables up to 6.5 mm

Equipped with a unique protection technology

The unique protection technology that stops the machine if the fiber cable meets resistance. Any obstacles are registered by a sensor and the motor stops. The machine will also stop automatically if the motor exceeds the preset maximum torque level. In both cases, the machine stops immediately so the fiber cable does not get damaged.

User-friendly touch display

The Microflow Touch's control unit has a user-friendly touch display, which can be used to make a number of different adjustments.

Present automatic stop

The control unit can be used to presetting distance counter to stop after a certain blowing distance, making it possible to work alone.

Adjustable torque and speed control

DON'T FORGET TO ORDER

Adaptor plate set

You can choose between adaptor plates for fiber sizes 0.8-6.5 mm.

Gasket sets

You can choose between gasket sets for adaptor plates 0.8-6.5 mm.

POSSIBLE ACCESSORY ADD-ONS

Service Agreement with Extended Warranty

Valve for reverse airflow

Different variants between 5-12 mm duct.

Blowing tips

Different variants between 2-6 mm.

FlowLUB 5000

Item No.: 103-30530

A wide selection of adaptor plates for any fiber/duct sizes on request

SPECIFICATIONS

Item No.:	101-10051
Cable diameter:	0.8-6.5 mm
Duct diameter:	4-16 mm
Blowing distance ¹ :	Up to 2,500 m
Blowing speed ² :	Up to 90 m/min
Recommended pressure and airflow ² :	8-16 bar (200-500 l/pr. min.)
Voltage:	100-240 V, 50-60 Hz
Power usage:	Up to 200 W
Weight:	11.7 kg
Length:	250 mm/200 mm
Width:	150 mm/150 mm
Height:	220 mm/80 mm

A quality transport box is included in the purchase.

Powered by 24V DC electric motor. Electronic control unit and electronic meter speed/counter with presetting of blowing distance.

¹ Depending on type of microduct and cable.

² Cooled and dried air.

VALID FROM JANUARY 3, 2022

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MICROFLOW LOG

Fiber blowing machine for FTTH fibers (EPFU) and micro cables up to 6.5 mm

Compatible with OptiCloud

Access to OptiCloud data gives you: Job documentation, utilization data (how the machine is utilized and data to improve it), maintenance and service recommendation. The LOG template can be individually adapted to the specific job.

Equipped with protection technology

The unique well-known protection technology that stops the machine if the fiber cable meets resistance. Any stop is registered by a sensor and the motor stops.

Verification of blowing quality

Each job will end with a full report that ensures that the quality is 100% documented. This will minimize the risk of costly errors.

Adjustable torque and speed control

DON'T FORGET TO ORDER

Adaptor plate set

You can choose between adaptor plates for fiber sizes 0.8-6.5 mm.

Gasket sets

You can choose between gasket sets for adaptor plates 0.8-6.5 mm.

POSSIBLE ADD-ONS

Service Agreement with Extended Warranty

Valve for reverse airflow

Different variants between 5-12 mm duct.

Blowing tips

Different variants between 2-6 mm.

FlowLUB 5000

Item No.: 103-30530

A wide selection of adaptor plates for any fiber/duct sizes on request

SPECIFICATIONS

Item No.:	101-171001001
Cable diameter:	0.8-6.5 mm
Duct diameter:	4-16 mm
Blowing distance ¹ :	Up to 2,500 m
Blowing speed ² :	Up to 90 m/min
Recommended pressure and airflow ² :	8-16 bar (200-500 l/pr. min.)
Voltage:	100-240 V, 50-60 Hz
Power usage:	Up to 200 W
Weight:	13.5 kg
Length:	250 mm/240 mm
Width:	150 mm/250 mm
Height:	220 mm/80 mm

A quality transport box is included in the purchase.

Powered by 24V DC electric motor. Electronic control unit and electronic meter speed/counter with presetting of blowing distance.

¹ Depending on type of microduct and cable.

² Cooled and dried air.

VALID FROM JANUARY 3, 2022

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Do not forget your service agreement.



Learn more on page 26-27



PATENT PENDING



230 V

EASYFLOW SMART

Automatic fiber blowing machine for micro cables and cables up to 16 mm

Fully automatic fiber blowing machine

Based on 25 years of experience in the fiber blowing market, EasyFlow SMART includes all the experience of a fiber blowing expert. The automatic mode protects the cable all the way during the fiber blowing job, minimizing costly errors and significantly loss of cable.

Equipped with a cable protection system

With the cable protection system, the machine will never exceed cable push force, thereby significantly reducing possible damage on the cable. This means you save costs on new cable and extraction of damaged cable plus labour cost.

Fully automatic air supply

The automatic air supply means that you do not have to invest in a large compressor, but can do with a smaller one, as the machine takes full advantage of the available air pressure and volume. This also maximizes the fiber blowing distance resulting in fewer manholes required and improved profits.

Tool free configuration

Configuring the machine can be done without any tools. With the tool free interchangeable chain, the replacement of chains is also extremely easy and quickly done. This saves time during configuration making it possible to do multiple jobs a day.

SPECIFICATIONS

Item No.:	101-211129001
Cable diameter ¹ :	4-16 mm
Duct diameter:	8-40 mm
Blowing distance ² :	3,500 m
Blowing speed ³ :	Up to 80 m/min
Max. pressure:	Max. 16 bar
Recommended airflow ³ :	Up to 12,000 l/pr. min.
Voltage:	230 V, 50 Hz
Power usage ⁴ :	Up to 600 W
Weight:	44 kg
Length:	400 mm
Width:	621 mm
Height:	340 mm

¹ Depending on type of cable, duct and installation method.

² Depending on type of microduct and cable.

³ Cooled and dried air.

⁴ Recommended power supply min. 1000W.

DON'T FORGET TO ORDER

Sponges

Cleaning the duct prior to blowing the fiber create a smoother fiber blow. The sponges can both be used for cleaning and for lubricating the duct.

Lubrication

You can improve blowing length as the FlowLUB reduces friction and static electricity in the duct.

Service agreement

The most expensive machine is the one not in use. Order a service agreement with your machine and ensure extra piece of mind.

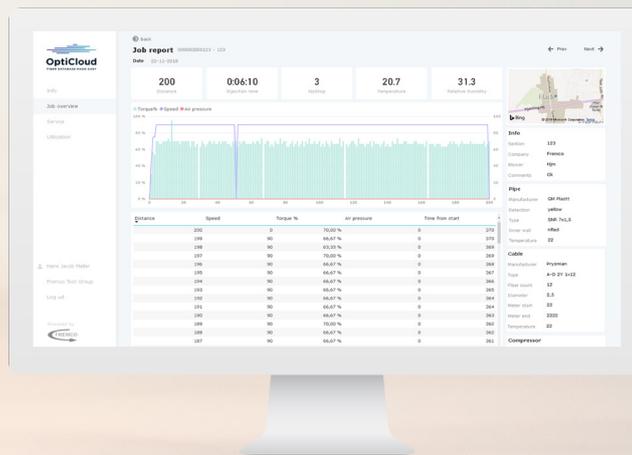
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OptiCloud

FIBER DATABASE MADE EASY

User-friendly Data Management Tool

OptiCloud is a cloud based management tool included in the purchase of the Microflow LOG.



With OptiCloud, you get:

- A complete overview of your fiber blowing machines and the performed jobs.
- Possibility of planned service, minimizing the risk of having a machine that suddenly does not work.
- Easy access to a utilization overview of all machines, giving you the possibility to detect low performance.

Gain overview, create quality documentation in minutes and eliminate unnecessary high costs.

Learn more on www.opticloud.dk.

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THE MOST EXPENSIVE MACHINE IS THE ONE *NOT* IN USE...

This is why it pays off signing a service agreement, securing quality service of your machine from day one.

Our service agreements ensure your machine gets serviced when it's necessary - not before or after.

A preventative service and maintenance reduces the risk of downtime and prolongs the machine lifespan.

Your benefits

Financial safety with a service agreement You save money compared to the actual price on service.	No unexpected expenses Repair in case of machine malfunction is included within the warranty. Standard parts for an annual service are also included* (*no wear and tear parts included).
Fixed monthly, annual or onetime payment available creating total overview of expenses.	Quality machine service ... performed at an authorized service center.
Minimal downtime Access to a loan unit in case of unplanned breakdown or planned service.	

How secure the best performance of your machine?



You receive your new machine.



Go to fremco.dk/products/service-agreement/



Enter your details. You will be invoiced monthly, annually or by a onetime fee.



Congratulations! You are now covered.

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EXTENDED WARRANTY AND SERVICE AGREEMENT OPTIONS IN DETAILS



Extended warranty options	36-month warranty period	36-month service agreement with warranty	60-month service agreement with warranty
Available where?	EU countries	EU countries	EU countries
Payment options Prices available for: NanoFlow MAX, MicroFlow TOUCH/LOG	One time fee: €945 (for 36 months)	Monthly fee: €68 Annual fee: €760 Onetime fee: €2.100 (for 36 months)	Monthly fee: €68 Annual fee: €760 Onetime fee: €3.625 (for 60 months)
Payment options Prices available for: EasyFlow SMART	One time fee: €1,600 (for 36 months)	Monthly fee: €159 Annual fee: €1.800 Onetime fee: €4.800 (for 36 months)	
Benefits	<ul style="list-style-type: none"> • Free repair of machine malfunction within the Agreement² • Return freight covered by the Service Center 	<ul style="list-style-type: none"> • One free annual service (labour cost included)¹ • One free annual service kit/spare part kit (value up to €430) • Extended warranty up to 60 months¹ • Access to a loan unit sent from Fremco within 48 hours¹ • Free repair of machine malfunction within the Agreement² • Return freight covered by the Service Center 	

¹ Special conditions apply. Learn more about these conditions in the general Terms and Conditions for service agreement. Excluding wear and tear parts. Spare parts kits/service kit are included.

² Claims caused by incorrect usage of the Machine, not in accordance with the operating manual, maintenance guide, Fremco e-learning, or current regulations, is not covered by the Agreement.

You can buy a service agreement or extended warranty within a month of your machine purchase.

Learn more about the service agreement and warranty offers on www.fremco.dk.

Terms and conditions

For more insight into the terms and conditions of the agreement, we refer to the General Terms and Conditions of Service agreement. This is forwarded to you by your Fremco service center.



Your Best Fiber Blowing Solution



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