

PRODUCT SAFETY & INTENDED USE STATEMENT

Cable Blowing Machines and Related Accessories

Document purpose

This statement defines the intended use, key safety conditions and product group specific operating boundaries for UPCOM cable blowing machines. It is a product safety statement, not a replacement for the user manual, CE Declaration of Conformity, training, risk assessment or project-specific method statement.

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1. Covered Product Families

This document is issued for the UPCOM cable blowing machine product group. The covered product families are listed below. Model-specific safety notes are included in Section 6 so that a single controlled document can be used for the complete product group without creating unnecessary individual certificates for each model.

Product family	Typical cable range	Main drive / use profile	Product group coverage
MikroFOK	1-6 mm	Precision micro cable / FTTH applications	Covered
DrillFOK	1-8 mm	Drill-powered compact cable installation	Covered
ElektroFOK	1-8 mm	Electric motor driven micro/mini cable installation	Covered
MiniFOK	2.5-12 mm	Handheld micro/mini cable installation	Covered
MiniFOK Genius	2.5-12 mm	Advanced micro/mini cable installation configuration	Covered
FOK Machine	9-22 mm	Medium and large cable installation	Covered
HidroFOK	9-24 mm	Heavy-duty hydraulic long-distance cable installation	Covered
Accessories	Model dependent	Pallet sets, duct connectors, seals, O-rings, aligning parts, cases and compatible accessory sets	Covered where supplied by UPCOM

2. Intended Use

UPCOM cable blowing machines are intended for the installation of fiber optic and telecommunication cables into suitable ducts, microducts or subduct systems using controlled mechanical feeding force and, where applicable, compressed air, hydraulic power, electric drive or drill-powered drive depending on the model configuration.

- Use only for cable and duct dimensions compatible with the selected machine, pallet set, duct connection tool and sealing set.
- Use only with clean, undamaged ducts and cables suitable for blowing installation.
- Use only by trained or competent personnel familiar with cable blowing methods, compressed air systems and job-site safety practices.
- Use only in accordance with the product manual, quotation configuration, accessory compatibility and project method statement.
- Use the correct cable lubricant, duct preparation and air/compressor setup where required by the installation method.

3. Misuse and Prohibited Use

- Do not use the machines for lifting, pulling people, general mechanical pulling, winching or any purpose other than cable installation.
- Do not exceed the cable diameter, duct diameter, pressure, speed, force or accessory limits specified for the selected model and configuration.
- Do not operate with missing guards, damaged belts, damaged chains/wheels, leaking hoses, damaged electrical cables or incompatible fittings.
- Do not modify the machine, bypass safety devices, use non-compatible accessories or alter electrical/hydraulic/pneumatic systems.
- Do not use the machine in explosive atmospheres, submerged conditions, heavy rain or environments outside the product configuration unless specifically approved.
- Do not direct compressed air toward people or open duct ends without proper control and exclusion zone arrangements.

4. General Safety Requirements

Safety area	Minimum requirement
Operator competence	The machine shall be operated only by trained or competent users. Operators must understand cable blowing parameters, machine controls, emergency stop/stop method and applicable site rules.
Personal protective equipment	Safety glasses, protective gloves, safety shoes and hearing protection shall be used where required by the site conditions, compressor noise level and work method.
Compressed air	Air supply must be controlled, regulated and compatible with the machine and duct system. Hoses and fittings must be pressure-rated, secure and inspected before use.
Moving parts	Hands, clothing and loose objects must be kept away from belts, wheels, chain drives and feed mechanisms during operation. Guards must remain in place.
Cable and duct compatibility	Cable diameter, duct size, cable stiffness, route condition and bend radius must be checked before operation. Wrong accessories can damage the cable or machine.
Work area	The work area must be stable, clean, illuminated and free from unnecessary personnel. Cable drums and duct ends must be secured.
Emergency response	Operators must be able to stop the drive and isolate air/electric/hydraulic power quickly. Do not restart until the cause of abnormal operation has been identified.
Documentation	The user manual and project method statement must be available to the operator. This statement does not replace model-specific instructions.

5. Pre-Operation Checklist

- Confirm machine model, cable diameter and duct diameter match the selected accessory/pallet/seal set.
- Inspect machine body, drive system, hoses, fittings, electrical cables, seals, O-rings and connectors for visible damage.
- Confirm cable drum rotates freely and is positioned to prevent uncontrolled movement or cable twisting.
- Confirm duct route is suitable, clean and prepared for blowing; route condition must be assessed before installation.
- Confirm compressor/air supply and regulator setup are compatible with the machine and installation method.
- Verify that all guards, covers and safety-related parts are fitted and secure.
- Establish communication between operators at the machine, cable drum and receiving end where required.
- Keep a clear exclusion area around rotating cable drums, moving parts, compressed air connections and duct ends.

6. Model-Specific Safety Notes

The product group can be covered in a single document because the machines share the same intended use. The following model-specific notes identify the additional attention points that must be applied according to the selected machine.

Model / family	Specific risk focus	Required control
MikroFOK	Small cable and microduct damage from wrong force, speed or seal selection.	Use the correct microduct/cable accessory set and apply controlled low-force operation according to the application.
DrillFOK	External drill rotation, torque reaction and incompatible drill settings.	Use a suitable drill, stable grip and correct speed/torque setting. Do not use hammer mode. Follow drill manufacturer safety rules.
ElektroFOK	Electrical drive, rotating drive components and electrical isolation during service.	Operate in dry/suitable conditions, inspect cables/connectors and isolate power before cleaning, adjustment or service.
MiniFOK / MiniFOK Genius	Handheld/compact machine handling, moving feed parts and micro/mini cable sensitivity.	Keep hands clear of feed area, use compatible pallets/seals and avoid excessive force on small-diameter cables.
FOK Machine	Medium/large cable feed force, compressed air and route resistance.	Check route, air settings, cable drum control and cable/duct compatibility before operation.
HidroFOK	Hydraulic system, high feed force, long-distance operation and pressurised hoses.	Inspect hydraulic hoses/fittings, avoid leak contact, control feed force and maintain clear communication along the route.
Accessory sets	Incorrect pallet, guide, seal or duct connector can cause cable damage, air leakage or unsafe release.	Use only compatible UPCOM accessory sets for the machine, cable and duct size. Replace worn seals and O-rings before operation.

7. Maintenance, Cleaning and Inspection

- Routine inspection and cleaning shall be performed before and after use, especially around drive wheels, belts, chain components, cable guides, seals and duct connectors.
- Worn or damaged O-rings, seals, belts, wheels, pallets, duct connection tools and air fittings shall be replaced before further use.
- Hydraulic, electrical and pneumatic systems shall be serviced only by competent personnel.
- The machine shall be isolated from electrical power, drill drive, compressed air and hydraulic pressure before adjustment, cleaning or maintenance.
- Only compatible spare parts and accessories shall be used. Substitution with non-compatible parts may create unsafe operation and void product support.

8. Storage, Transport and Handling

- Store the machine in a dry, clean and protected environment when not in use.
- Protect the machine from impact, moisture, dust accumulation and uncontrolled movement during transport.
- Where a protected case or transport case is supplied, use it to reduce transport damage risk.
- Do not transport the machine with pressurised air/hydraulic lines connected or unsecured accessories attached.
- Cables, seals, pallets and small accessories should be stored in a way that avoids deformation, contamination or loss of size identification.

9. Product Support and Documentation

UPCOM can provide model-specific technical information, spare part guidance, accessory compatibility information and quotation-based configuration support. For safe use, the customer must ensure that the selected machine package matches the actual cable diameter, duct diameter, route condition and installation environment.

Configuration note


A cable blowing machine is a configurable product. Safety and performance depend on the selected machine, pallet set, duct connector, seal set, compressor/air supply and cable route. The quotation and supplied accessory list should be checked before operation.

10. Limitations of This Statement

- This statement is a general product group safety and intended use document for UPCOM cable blowing machines.
- It does not replace the CE Declaration of Conformity, user manual, technical file, risk assessment, training or local site safety requirements.
- It does not certify a specific installation result, blowing distance, route performance or compatibility with all cable/duct combinations.
- Project-specific requirements, special environments, customer modifications or non-standard accessories must be reviewed separately.
- UPCOM is not responsible for unsafe use, incorrect installation method, incompatible accessories, unauthorised modification or operation outside the intended product configuration.

11. Declaration

UPCOM declares that the cable blowing machines listed in this document are intended for controlled fiber optic and telecommunication cable installation by trained or competent users, subject to correct model selection, correct accessory configuration, suitable duct/cable route conditions and compliance with the applicable operating instructions.

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