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1. SAFETY INSTRUCTIONS

THIS EQUIPMENT MUST ONLY BE USED BY AUTHORISED PERSONNEL, WHO HAVE BEEN SUITABLY TRAINED AND COMPETENT TO DO SO.



THESE INSTRUCTIONS ARE TO BE MADE AVAILABLE TO OPERATORS OF THIS EQUIPMENT AT ALL TIMES, FAILURE TO OBSERVE THESE SAFETY INSTRUCTIONS COULD RESULT IN SERIOUS PERSONAL INJURY AND / OR PROPERTY DAMAGE.



WORK AREA AND GENERAL SAFETY

- 1) Read and understand the operation and maintenance manual supplied with this equipment. Keep it in a convenient place for future reference.
- 2) Keep children and untrained personnel away from this equipment whilst in operation.
- 3) Keep all guards and safety devices in place. Do not operate this equipment with guards removed or damaged.
- 4) Keep hands, feet and loose clothing away from moving parts, especially at cable entry points.
- 5) Always stop the machine and isolate, compressed air, electrical and hydraulic services to carry out lubrication and servicing.
- 6) Check machine before starting for worn or damaged parts. Check that all nuts and bolts are tight.
- 7) If machine is left unattended, ensure that unauthorized use is prevented.
- 8) Never leave the machine unattended whilst in use.
- 9) Use safety barriers to create an exclusion zone and prohibit access by any person(s) to the Cable Blowing Machine except the operator, this is especially important when used in public places.
- 10) Beware of pinch points involved with rotating components, e.g. screw operated tractor drive lifting mechanisms etc.
- 11) Beware of hot surfaces, machine uses compressed air and hydraulic services.
- 12) When operating or servicing the machine always wear eye protection, hard hat, approved safety foot ware and leather work gloves, machine operates with compressed air at 12 Bar and hydraulic oil at 140 Bar.





- 13) Some component and assembly parts are in excess of 25kg. When lifting care must be taken, ensure sufficient man power/lifting gear is available, to prevent personal injury and damage to the machine.
- 14) Prior to installation ensure the sub-duct route is connected properly.
- 15) Beware of exposed electrical contacts. Do not touch or allow metal objects to come into contact.
- 16) Waste hydraulic oils are to be disposed of via an environmentally acceptable method – e.g.: passed on for re-cycling.
- 17) Wear defenders if noise levels are considered high to prevent ear damage.
- 18) Machine may cause additional fire hazard if involved in an existing fire due to compressed air and hydraulic oils.
- 19) No personnel are to be in manholes or ducts when the Cable Blowing Machine is being operated.
- 20) The machine must be operated on firm ground in a level and stable condition.
- 21) Stay clear of cables or lines under tension.
- 22) Stay clear of pressurized line and sub-duct.
- 23) Only use the machine for its intended purpose, do not use the tractor drive without the air chamber to push or pull cable.
- 24) Do not place cable drum too close to the Cable Blowing Machine.
- 25) Do not tamper with pressure relief valves or pressure reducing valves.
- 26) The compressed air supply must not be allowed to enter the air chamber or sub-duct before the top tractor drive frame has been closed and the cable inserted into the intake cable guide bracket assembly.

FAILURE TO DO SO MAY RESULT IN PERSONAL INJURY, AS THE CABLE COULD BE EJECTED FROM THE CABLE BLOWING MACHINE WITH HIGH FORCE AND VELOCITY.

- 27) Do not open the air chamber until all the air has been exhausted and the air pressure gauge reads zero.
- 28) Never operate the blowing machine with the electronic control panel immersed in water.
- 29) To prevent damage to the hydraulic hoses and the emergency stop cable never leave them on the ground when not in use.
- 30) Do not allow the hoses to come in to contact with any harmful substances that may cause damage.
- 31) Do not use the Cable Blowing Machine if lighting levels are poor, such that make operation hazardous.
- 32) Do not use the Cable Blowing Machine with any component parts removed, missing or damaged.
- 33) Do not use or maneuver the Cable Blowing Machine on surfaces or in a position that is



unstable and/or inclined that could result in the Cable Blowing Machine rolling, sliding or turning over.

- 34) Avoid using the Cable Blowing Machine in thunderstorm conditions and/or where there is a risk of lightning, snow / ice or high winds.
- 35) The Cable Blowing Machine must not be used in a potentially explosive atmosphere.
- 36) The operator must take care not to trip or fall when moving the Cable Blowing Machine.
- 37) The operator should monitor the Cable Blowing Machine for potential problems and hazards when the Cable Blowing Machine is in use, these may arise slowly, quickly or suddenly. 
- 38) Only use the machine for its intended purpose.
- 39) Lift the Cable Blowing Machine with the lifting point provided adjacent to cable clamping screw handle.
- 40) The cable drum(s) should be positioned directly behind and in line with the Cable Blowing Machine.
- 41) When not required for moving the Cable Blowing Machine, the frame mounted handles should be fully retracted and secured, (when in the extended position the handles may pose a potential tripping hazard).
- 42) The Cable Blowing Machine must not be operated until full training and compliance with the directives of this Operator Instruction Manual and the Operator Instruction Manual for any equipment to be used in conjunction with has been fully completed. 

GENERAL HYDRAULICS SAFETY INSTRUCTIONS



Escaping fluids under pressure can penetrate the skin and cause serious personal injury. Observe the following precautions to avoid hydraulic hazards: -

- 1) Ensure all hydraulic connections are securely tightened before operating the machine.
- 2) Check for leaks with a piece of cardboard. **Do not use your hands!**
- 3) Do not exceed working pressure of hydraulic hoses.
- 4) Visually inspect hoses regularly and replace if damaged.



GENERAL PNEUMATIC SAFETY INSTRUCTIONS

The MiniFOK Fiber Cable Blowing Machine is a pneumatic device, using pressurized air to project cable at high velocities. Please observe the following precautions when operating the Cable Blowing Machine: -

- 1) Compressed air can cause flying debris. This could cause personal injury. Always wear personal protective equipment.

- 2) Ensure no personnel are in the manhole at the far end of the cable run. Severe personal injury may result.
- 3) Never open the air chamber when pressurized.
- 4) Only authorized, fully trained personnel should operate the air compressor.



GENERAL ELECTRICAL SAFETY INSTRUCTIONS

The electronic control assembly and power supply are electrical devices. Electric shock hazards exist that could result in severe personal injury. Observe the following precautions to avoid electrical hazards:

- 1) Do not operate in or near water. This includes setting the electronic control assembly on a wet surface or exposing them to rain.
- 2) Do not remove cover of electronic control assembly. There are no user serviceable parts inside. Refer servicing to qualified service personnel.
- 3) Check the condition of the emergency stop lead. Replace if worn or damaged.
- 4) Never run the blowing machine without the emergency stop cable being connected to the Blowing Machine and Power Pack.



2. CRITICAL POINTS THAT DRAMATICALLY AFFECT THE OPERATION OF THE CABLE BLOWING MACHINE

- ❑ 1 TURN ON THE CABLE CLAMPING SCREW
- ❑ TRACTOR DRIVE TO BE CLOSED AT ALL TIMES WHEN CABLE IS INSTALLED INTO MACHINE.
- ❑ AIR CHAMBER HEIGHT ADJUSTMENT CORRECTLY SET.
- ❑ CABLE INFEED BRACKET HEIGHT ADJUSTMENT CORRECTLY SET.
- ❑ CORD SEALS IN AIR CHAMBER CORRECTLY FITTED TO PROVIDE GOOD SEALING.
- ❑ CORRECT CABLE SEALS FITTED.
- ❑ SUB-DUCT FULLY CONNECTED AND PRESSURE-TESTED.
- ❑ SUB-DUCT CABLE EXIT RETAINING DEVICE FITTED.
- ❑ COMPRESSOR CAPACITY 12 BAR AND SUITABLE FOR SIZE OF SUB-DUCT BEING USED.
- ❑ CABLE DRUM MUST BE LOCATED DIRECTLY BEHIND AND IN LINE WITH THE BLOWING MACHINE.
- ❑ AIR CHAMBER, TRACTOR DRIVE BELTS/CHAINS, HOUSING FRAMES AND CABLE GUIDE INTAKE ASSEMBLY MUST BE CLEAN AND FREE FROM DEBRIS, SLUDGE, DIRT, WATER AND LUBRICANT. (EACH TIME THE BLOWING MACHINE IS USED).
- ❑ THE CABLE MUST BE HAND GUIDED INTO THE BLOWING MACHINE THROUGH A DRY CLEAN CLOTH BY THE OPERATOR WEARING WORK GLOVES. THIS WILL REMOVE ANY DIRT, DEBRIS AND WATER ON THE CABLE.
- ❑ ENSURE THE COMPRESSED AIR SUPPLY IS NOT APPLIED TO THE CABLE UNTIL APPROXIMATELY 200 METRES OF CABLE HAVE BEEN INSTALLED OR THE HYDRAULIC PRESSURE BEGINS TO RISE.
- ❑ THE HYDRAULIC PRESSURE SHOULD BE BETWEEN 20-40 BAR AT THE START OF A BLOWING INSTALLATION. *IF GREATER DO NOT PROCEED.* CHECK, CABLE CLAMPING SCREW SETTING, SUB-DUCT, CABLE, CABLE SEALS, CABLE COLLETT SIZES, AIR CHAMBER / INFEED GUIDE HEIGHT SETTING. RECTIFY BEFORE RE- COMMENCING THE INSTALLATION.
- ❑ LUBRICATE THE DRIVE CHAINS BEFORE USE.
- ❑ DO NOT REPEATEDLY PRESS THE ON/OFF BUTTON ON THE LENGTH / SPEED READOUT, THIS MAY RESULT IN IRRELEVANT DIGITS BEING DISPLAYED OR MAY ALTER THE PROGRAMME.
- ❑ ALWAYS FIT THE HYDRAULIC HOSE DUST CAPS WHEN THE HOSE IS NOT IN USE, CLEAN AND CHECK THE QUICK RELEASE COUPLINGS BEFORE USE.

DISCLAIMER

Upcom take care in the design of its products to ensure that the cable is protected during installation. Due to the variety and different methods of cable manufacture the responsibility of checking the cable compatibility with the equipment lies with the operator. Therefore, Upcom cannot accept liability for any damage to the cable.

