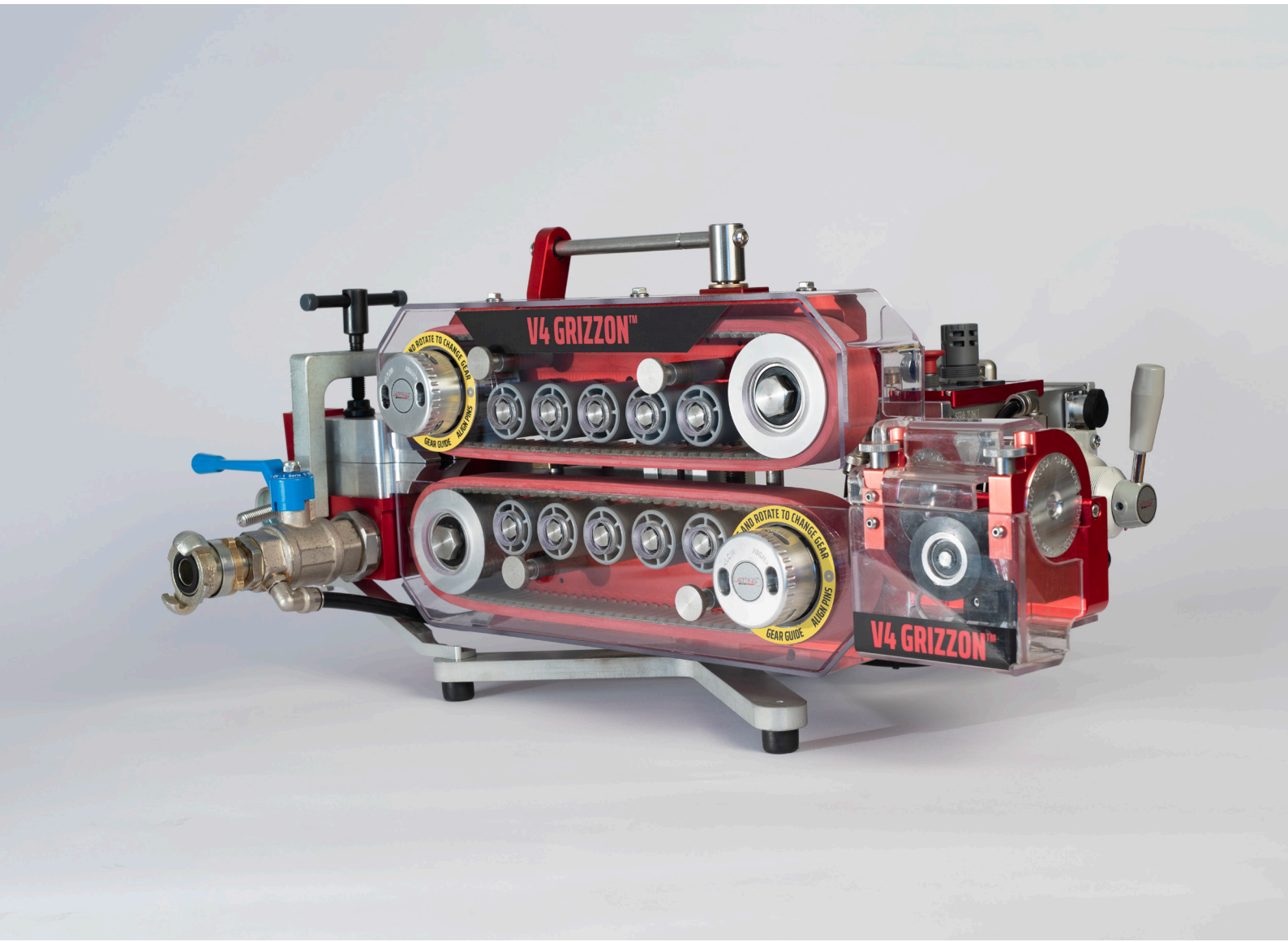
V4 GRIZZON™

Product model/type: V4



V4 GRIZZON USER GUIDE AND SAFETY MANUAL

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JETTING
DARE TO DO IT DIFFERENTLY.

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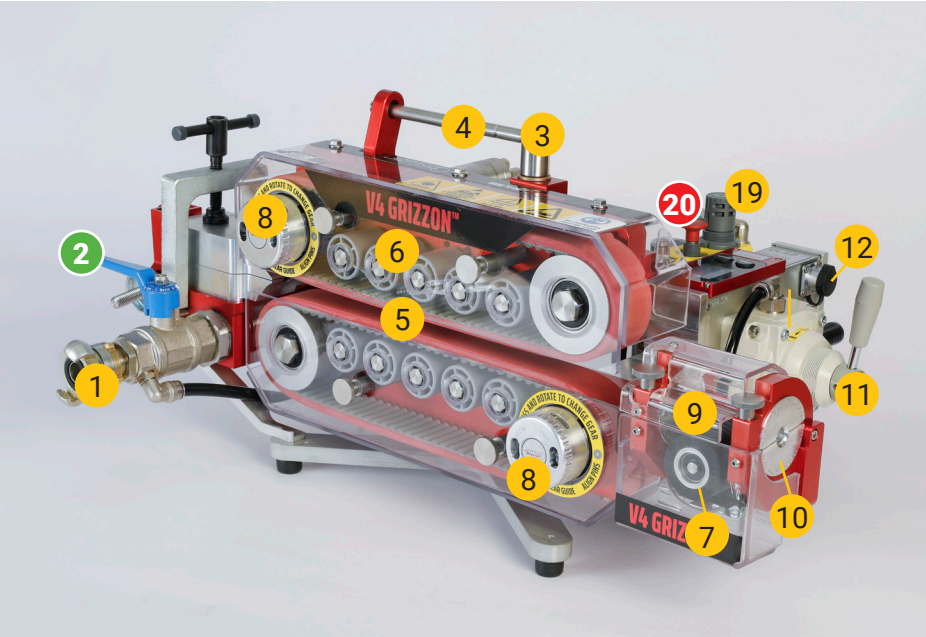

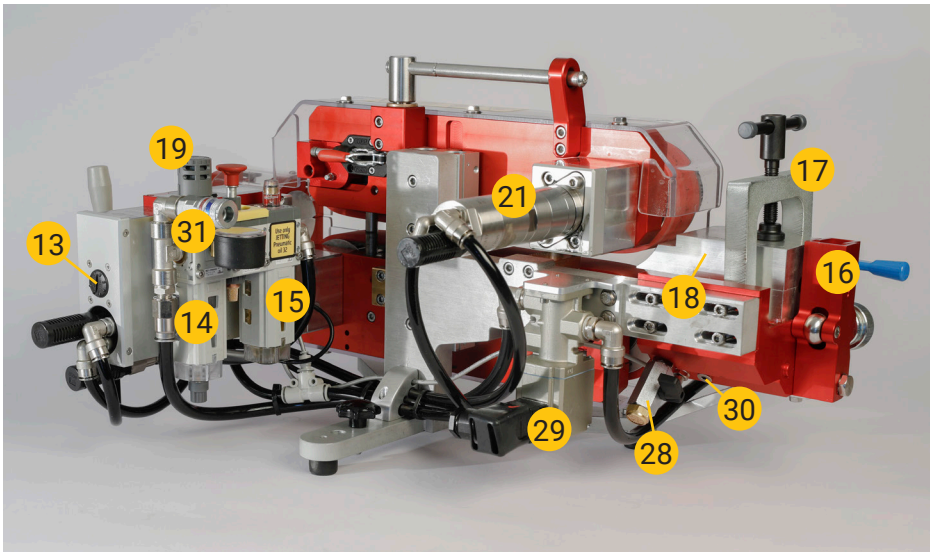

1. Claw Connector
2. **Air Valve**
3. Belt Clamping Lever
4. Handle
5. Drive Belts
6. Drive Belt Protection
7. Counting wheel
8. Dual gear
9. Cable guide housing
10. Cable guide
11. Easy Joystick Controller
12. Jetlogger socket
13. Battery Socket
14. Water Separator
15. Oil Container
16. Duct Holder
17. Clamp bracket
18. Duct Clamp
19. Regulator
20. **Security Stop**
21. Pneumatic Motor
22. Power Button
23. Reset Button
24. Display
25. Oil Adjustment Screw
26. Oil Container Screw
27. Manometer for Motors
28. Duct Air Release
29. Safety Valve (V4 JLP)
30. Outlet for Jetluber Connector
31. Air outlet

Important Safety Notice

Read and understand all procedures and safety instructions before using the V4 fiber blowing machine. Please note all safety information on this page and take note of specific safety requirements outlined in the procedures of this manual. Failure to follow these instructions may result in serious personal injury or death.

Warning: The noise level will exceed 70 dB.

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1. General Information

The V4 Grizzon is a powerful and versatile device designed for installing fiber optic cable directly into ducts. It combines a duct clamp and a belt drive system that, when used together with compressed air, efficiently installs the cable into an airtight duct.

The V4 features a dual-gear system that allows the operator to select between:

- High Gear – for maximum installation speed, up to 110 m/min (361 ft/min) with a pushing force of up to 1000 N.
- Low Gear – for maximum pushing force, up to 2000 N, with a reduced installation speed of 30 m/min (98 ft/min).

Equipped with a digital display for speed, distance, and pressure monitoring, the V4 should always be complemented with the correct duct clamps, cable seals, and cable guides, depending on the dimensions of the duct and cable for each installation.

This user manual provides a comprehensive description of the V4, designed for feeding fiber cable through ducts that have been installed either underground or aboveground. The duct must be airtight up to a pressure of 16 bar (232 psi), with a recommended working pressure of 10–16 bar (145–232 psi).

- Duct size range: 10–63 mm (0.39–2.48 in)
- Fiber optic cable size range: 4–40 mm (0.16–1.57 in)

The V4 uses a duct clamp made in two halves that securely clamp around the duct. The clamp holds a seal through which the fiber optic cable is fed before entering the duct. Both duct clamps and seals can be replaced to accommodate different duct and cable sizes.

Fiber installation is achieved through a combination of pressurized air (pulling force) and the belt drive system (pushing force). The airflow inside the duct reduces friction, allowing the belt drive system to push the cable further with minimal resistance.

The use of the V4 for purposes other than those described in this manual is considered hazardous and is strictly prohibited. The warranty and manufacturer responsibility become void in cases such as:

A. Use for applications other than those described in this manual.
B. Modifications or alterations made without written approval from the manufacturer.
C. Non-use of original manufacturer's spare parts.
D. Poor maintenance or failure to use included safety equipment.
E. Connection to unauthorized machines or parts.
F. Grounding cable not used
G. Stored incorrectly in a humid environment
H. Operating the V4 without oil in the oil container.

<u>The oil level in the container must be checked daily.</u>

Jetting AB is not responsible for damages arising from improper use of the V4.

2. Technical Information

A. Terms of Use
1. Temperature from -15°C to +40°C (5°F to 104°F)
2. Humidity from 20% to 90%
3. Weather conditions relevant to working conditions
4. Natural and/or artificial lighting of the workplace, >200 lux (>18.6 fc)

B. Air Compressor Requirements
1. Air Pressure: 16 bar max (230 psi)
2. Air Flow: 0.14–12 m³/min (5–389 cfm)
3. Connections: 1” Claw Connector
4. Max Pressure to Motors: 6 bar (87 psi)
5. Air Conditions: Dry, cool, clean, and oil-free

C. Operating Capacity V4
1. High Gear: Max speed 110 m/min, pushing force up to 1000 N (225 lbf)
2. Low Gear: Max speed 30 m/min, pushing force up to 2000 N (450 lbf)
3. Cable Sizes: 4 mm to 40 mm (0.16–1.57 in)
4. Duct Sizes: 10 mm to 63 mm (0.39–2.48 in)

D. Electrical Requirements
1. Power Supply Counter: 3 pcs AAA 1,5 V batteries
2. Power Consumption: Approximately 50 hours of operation
3. Power Connection: Battery holder

E. Physical Specifications
1. Height: 340 mm (13.4 in)
2. Width: 710 mm (28.0 in)
3. Depth: 540 mm (21.3 in)
4. Weight: 31 kg (68 lbs)

F. Drive Belts
1. Max Clamping Force: 2000 N (450 lbf)
2. Constant cable center design
3. Forward and reverse drive
4. One motor per drive belt
5. Belt protection in transparent plastic

G. Duct Clamps
1. Maximum 16 bar (230 psi)
2. Must withstand vibrations and shocks
3. Must have an exact fit
4. Duct should be cut at a 90-degree angle and the edge ground smooth
5. Duct must be positioned inside the O-ring but outside the air channel

3. Safety Regulations

Read and understand all procedures and safety instructions before using the V4. Please note all safety information on this page and take note of specific safety requirements explained by procedures outlined in this manual. Failure to follow these instructions may result in serious personal injury, property damage, or death. The equipment must only be handled by trained and authorized personnel who have read and understood all documentation. **In the event of mishaps or breakdown, see section 3.1.**

The machine is delivered in a custom hard case. When transported, the machine shall be placed in the hard case. The hard case must be locked, and when transported by car, the locked case should be strapped in a safe way, preventing it from overturning if the car brakes hard.

3.1. Machine Safety Shutdown

1. Activate the Emergency Stop by pushing down the red knob.
2. Close the air valve.
3. Turn off the compressor.
4. Open the duct air release valve.
5. Disassemble the unpressurized air hose from the Machine.

To deactivate the Emergency Stop, pull up the red knob.

3.2. Workplace Safety

1. Wear personal protective equipment: ear protection, hard hat, safety glasses, steel reinforced safety shoes, and light leather work gloves (OSHA-approved or Personal Protective Equipment Directive 89/686/EEC-compliant).
2. The operator is responsible that no children or unauthorized persons are close to the machine while in operation.
3. Do not operate this equipment with guards removed or damaged.
4. The machine has rotating gears and moving drive belts; it is strictly forbidden to wear loose clothing, hanging strings (e.g., hoodie drawstrings), scarves, jewelry, or anything that could get caught in the rotating parts.
5. Check machine before starting for worn or damaged parts, loose nuts and bolts etc.
6. If machine is left unattended, ensure that unauthorized use is prevented.
7. Keep long hair securely tied back.
8. The safe use of this equipment requires operators to stand on stable ground.
9. Be careful when handling cables and live wires
10. Be careful when handling pressurized lines and hoses.
11. Stay clear of cables or lines under tension.
12. Use the machine only for its intended purpose.
13. Do not place cable drums too close to the unit. Position the drum minimum 2 meters from machine.
14. Keep hands away from drive wheels and moving parts during operation.
15. Beware of hot and cold surfaces, machine uses compressed air.
16. The machine is equipped with a handle; use this when lifting or handling the machine.
    The machine weighs more than 31 kg (68 lbs). When lifting, be careful and avoid personal injury and machine damage.
17. Beware of exposed electrical contacts. Do not touch, or allow metal objects to come into contact.
18. Machine may cause additional fire hazard if involved in an existing fire due to compressed air.
19. No personnel are to be in manholes or ducts when the Fiber Blowing Machine is being operated
20. Ensure no personnel are in the manhole at the far end of the cable run.
    Severe personal injury may result.
21. The machine must be operated on firm ground.

22. Only use the machine for its intended purpose, do not use the belt drive without the air chamber to push or to retrieve cable, blow air in the far end to help cable recovery.
23. Do not tamper with pressure relief valves or pressure reducing valves.
24. The compressed air supply must not be allowed to enter the air chamber or duct before the belts have been closed on to the cable. Do not turn the air on until a reasonable length of cable 100 m (300 ft) has been installed into the duct.
    FAILURE TO DO SO MAY RESULT IN PERSONAL INJURY, AS THE CABLE COULD BE EJECTED FROM THE FIBER BLOWING MACHINE WITH HIGH FORCE AND VELOCITY.
25. Ensure the cable drum rotates freely on its stand; the cable should leave from the top of the drum.
26. The cable should enter the machine in a clean and dry condition. In damp, dusty atmospheres, the cable should be cleaned continuously as it enters the machine.
27. Do not open the air chamber until all the air has been exhausted and the air pressure gauge reads zero.
28. The machine must not be operated without belt protection covers.

3.3. Pneumatic Devices

The V4 Grizzon is a pneumatic device that utilizes compressed air to install cables at high speeds.
Please observe the following precautions when using the machine:

1. Compressed air generates flying debris. Always wear personal protective equipment.
2. Serious personal injuries can occur. Always wear personal protective equipment.
3. Never open the air chamber when pressurised. ⚠️ **Do not open until the air pressure gauge read zero.**
4. Only AUTHORIZED, fully trained personnel should operate the V4 and air compressor.

3.4. Electrical Devices

The control unit and the digital display are electrical devices. There are risks of electrical shocks that can lead to serious personal injury or death. Please note the following precautions to avoid electrical hazards:

1. Do not place the unit on a wet surface.
2. Do not use when there is thunder, lightning, or extreme weather conditions. A grounding rod driven into the ground as an additional protection is recommended if there is any risk of extreme weather conditions.
3. Do not remove the cover of the digital display. There are no user-serviceable parts inside.
   Leave servicing to qualified service personnel.
4. The machine has electrical monitoring and safety circuits. Observe the following precautions to avoid electrical hazards:
   - Do not operate in or near water.
   - Do not expose the machine to rain.

3.5. Working in Darkness

1. The operator must provide portable lighting that achieves a light intensity of at least 200 lux (lumen/ m²).

Improper use voids the warranty

CRITICAL POINTS THAT DRAMATICALLY AFFECT THE OPERATION OF THE FIBER BLOWING MACHINE

- Pressure on the cable should be set as per the instructions (cable specifications).
- Belts to be closed at all times when cable is installed into the machine.
- Cord seals in the air chamber in good condition and correctly fitted to provide good sealing.
- Correct cable seal fitted.
- Duct/inner-duct fully connected and pressure tested.
- Duct and connecting fittings are suitable for operating at 232 psi (16 bar) air pressure.
- Duct clamp securely tightened.
- Compressor capacity suitable for the diameter of inner-duct being used up to 232 psi (16 bar). Higher pressure gives better performance.
- Cable drum must be located in line and minimum 2 meters (6.5 ft) from the blowing machine.
- Air chamber, drive belts and pulleys, cable guides must be clean and free from debris, sludge, dirt, water, and lubricant.
- The cable must be hand-guided into the blowing machine through a dry, clean cloth by the operator wearing work gloves.
- Ensure the compressed air supply is not applied to the cable until approximately 300” (100 meters) of cable have been installed.
- Check the duct, duct clamp, cable, and cable seals before starting the installation.

DISCLAIMER

Jetting takes care in the design of its products to help 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, Jetting cannot accept liability for any damage to the cable.

4. Transport box

Components

Each V4 STD Kit includes the following items:

- V4 main unit
- Machine mount
- Jetting Lubrication, Duct Lube, Micro Duct Lube
- Duct clamps (vary depending on the order)
- Cable seal kit (vary depending on the order)
- Hex key
- 12 mm cable guide
- Assortment box
- Clamp bracket
- O-ring cord
- Manual
- Ground cable
- O-ring

5. Set Up the Machine

This user manual provides installation and operating instructions for the V4 Grizzon.

Do not connect the air supply until the installation is complete.
The machine should always be anchored in the machine fixture.
The fixture should be mounted on a stable, flat surface.
The machine must always be grounded using the supplied grounding cable.

5.1 Determine Fiber Cable Size

1. Determine the size of the cable to be installed.

5.2 Select Cable Sealing, Cable Guide and Duct

1. Choose the appropriate cable sealing, cable guide and duct clamp for the specific application based on the duct and cable size.

5.3 Connect Grounding Cable

1. Connect the machine to the grounding spike or directly to the drum holder.

5.4 Install Cable Sealing & Fiber Cable in the Duct Clamp

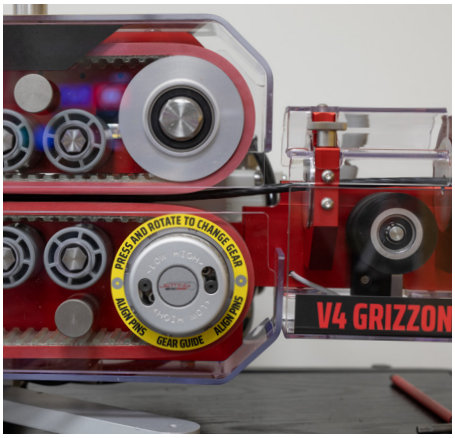
1. Loosen the clamp bracket on the duct clamp. Open the duct clamp.
2. Install the appropriate cable sealing on the fiber. Ensure that the direction of the seal on the fiber is correct so that it fits securely in the duct clamp. The sealing lip of the cable sealing should face toward the end of the duct.
3. Once the cable sealing is correctly positioned on the cable, install the cable sealing into the lower half of the appropriate duct clamp.

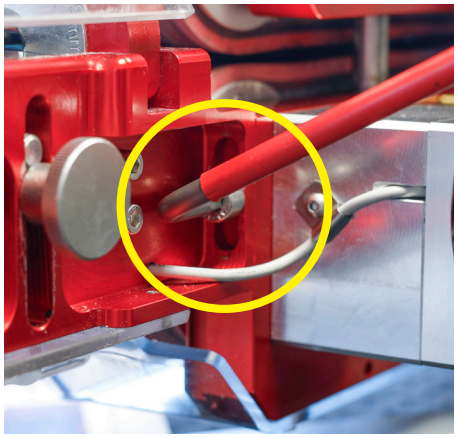
5.5 Install Duct

1. Place the duct securely in the lower duct clamp.
2. Ensure there is sufficient length available on the duct to avoid unnecessary strain on the duct.
3. Once the duct is in place, close the duct clamp and tighten by screwing the clamp bracket.
   It should be airtight.

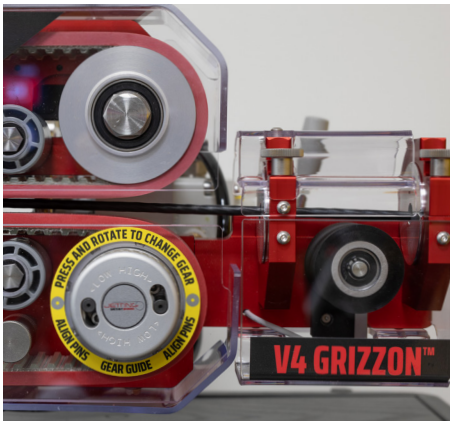
5.6. Install Fiber in Belt Drive and Tighten

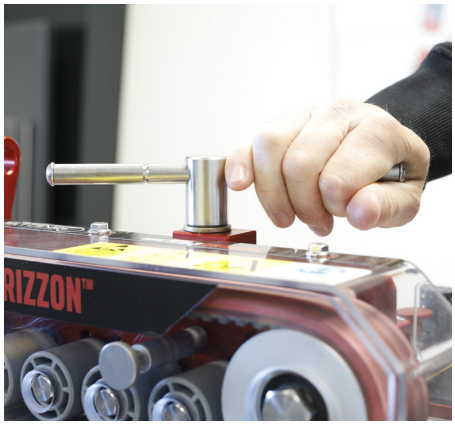
1. Adjust the Cable Guide Housing so that the fiber cable enters the machine in a straight line. Adjustment is done by loosening the marked hex screw.

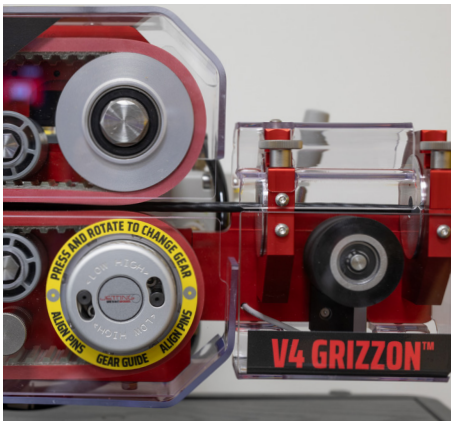




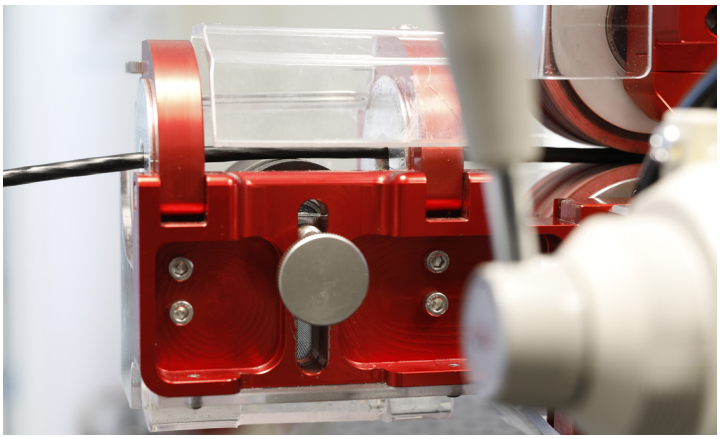
2. Thread the cable through the rear cable guide and between the belt drives to check mobility.
3. Tighten the upper and lower drive units with the Belt Clamping Lever to ensure even pressure on the cable.
4. Tighten so that the belt drives do not slip at the pressure setting determined in the cable crash test procedure. Do not overtighten.







5. Position the counting wheel so that it has proper contact with the fiber cable



Always use clean, oil-free, and dry air.
Route all hoses in a safety way to prevent tripping hazards.
To avoid creating tripping hazards, Place the air hose away from the work area and secure it to a stable object.

5.7. Connect to the Air Compressor

Note: Ensure that the regulator is set to 0/off and that the Easy Joystick Control is in the STOP position before connecting the air hose.

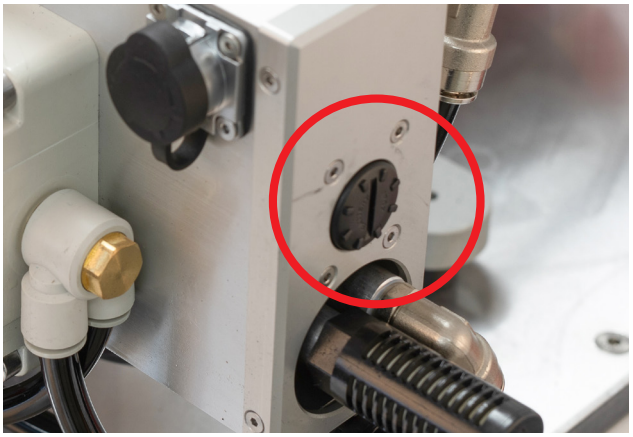
1. Connect the air hose to the air compressor.
2. Connect the air hose to the machine. The unit uses a Claw Connector.

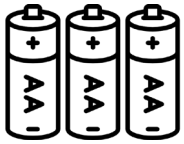
5.8. Placement of Cable Drum

The cable drum should be positioned in line and at least 2 meters away from V4. The fiber should not enter the V4 at an angle greater than 10 degrees from the intended direction of travel.

5.9. Connect battery to the Unit

Turn the lid of the battery socket counterclockwise and insert 3 x 1.5V AA lithium batteries.





⚠️ If the machine will not be in use for a longer period, please remove the batteries to prevent corrosion and potential damage caused by oxidation.

5.10. Display

1. Activate the display by pressing the POWER button. Reset values by pressing RESET.
2. The V4 display shows the number of meters of blown fiber cable in the duct (m) and the current speed (m/m meters/minute).
3. For the V4-JLP version, the connection to the JetLogger documentation system is shown in the lower image to the right.
4. The display will enter sleep mode when not in use.
5. The display can be inverted from a dark to a light background by pressing and holding RESET while pressing POWER during startup.

V4 Grizzon (STD/JLP)

Battery Power

Installed length in meters/ft

Speed (m/min) or (ft/min)

V4 Grizzon JLP (With Jetlogger connected)

Battery Power Jetlogger

Battery Power

Duct Pressure

High Gear Newtons

Low Gear Newtons

Installed length in meters/ft

Speed (m/min) or (ft/min)

Menu Options

5.11. How to Navigate the Configuration Menu

To access the configuration menu: While holding the Power button down, quickly press and release the Reset button.

How to navigate the menu:

• Browse: Press the ”Reset” button to scroll down the menu. The options loop around (0 › 5 › 0 again).

• Select: Press the ”Power” button to select an option.

5.12. Menu Options

1. Metric/Imperial
Switch between meters and feet for the machine's measurements.
You can also switch between Metric and Imperial by holding down the Power button and pressing the Reset button.

2.Update Firmware on the Machine
You can update the machine's firmware in two ways:
– via a mobile hotspot (e.g. Android phone)
– via the machine's web interface

Method 1: Update via Mobile Hotspot (Android)
Step 1: Set up a Mobile Hotspot
On your Android phone:
Open Settings › Connections › Mobile Hotspot & Tethering
Turn on Mobile Hotspot
Set:
- SSID: jettingfiber
- Password: jettingfiber

Step 2: Connect the Machine to the Hotspot
Hold the power button and briefly press the reset button
Scroll using the reset button and select SSID: jettingfiber
Confirm with the power button

Step 3: Update the Firmware
Once connected, the machine will try to reach the firmware server.
If a new version is available, it will be displayed like following:
- Select 1. Update Firmware using the reset button
- Confirm with the power button
- The machine will download, install the firmware, and reboot automatically

Method 2: Update via the Machine's Web Interface
Step 1: Enable Jet-Network (machine's own Wi-Fi network)
- Hold the power button and briefly press the reset button
- Select Option 2: Jet-Network
- The machine will start a Wi-Fi access point and web server

Step 2: Connect to the Machine's Wi-Fi
- SSID: ESP32Jetting_AP
- Password: jettingfiber

Note: This network has no internet access

Step 3: Open the Web Interface
- Open a browser and go to: 192.168.4.1

Step 4: Upload Firmware
- Click "Choose File" and select the firmware file (.bin)
- Click "Upload Firmware"
- Wait for the upload to complete – the machine will reboot automatically after the update

6. Cable Crash Test

Cable crash test is a very quick and straightforward step that should be completed before attempting to install fiber cable with V4. This test is necessary to set the regulator's position for the motors below the breaking point (tension force) where V4 could cause fiber cable damage due to over-tension or encountering an obstacle in the duct/conduit system. Each fiber cable has different tension values based on size and design.

Always wear protective equipment: a safety helmet, safety glasses, steel-reinforced safety shoes, and work gloves.

IMPORTANT
For the crash test to work correctly, use the same size of cable and duct that will be used for the job. Jetting cannot be held responsible for any cable damage.

Crash Test: For all cable types > 4 mm diameter
Set the pressure between the drive belts and fiber cable at the lowest possible setting that allows for a desirable installation speed.

1. Insert the fiber cable and seal inside the duct as it would be for the actual installation.
2. Install a 2-3 m test length of duct into the V4 clamp and secure the clamp.
3. Block the end of the test length of duct.
4. Tighten the drive belts against the fiber cable with the drive belt drive engaged in the forward direction until the fiber begins to be installed.
5. Insert the fiber cable into the blocked end of the duct.
6. The drive belt slip should occur on the fiber before the fiber bends over.
7. Tighten the drive belts against the fiber cable half a turn.
8. Repeat steps 6-7 until the fiber cable bends. This is your tension slip limit.
9. Loosen the drive belts on the fiber cable a quarter turn and perform the test again to confirm that no bending has occurred. KEEP THIS SETTING FOR THE FIBER CABLE FOR ACTUAL INSTALLATION!
10. Replace the test length of duct with the actual installation duct and proceed to section 7. Operation of V4.

7. Machine Operation

7.1. Verify Adjustable Tension Force
Verify that the adjustable tension force is set to the established crash test value, and the speed is at a minimum. Turn the regulator to 0 bar by lifting and turning the ring and turning it fully counterclockwise. Ensure that the Easy Joystick Controller is in the STOP position.

7.2. Engage Drive Belts
The drive belt drive can be operated forward and backward with the Easy Joystick Controller. For installation, engage the drive belts by first increasing the regulator to the desired air pressure for the motors, e.g., 1-6 bars. For forward motion, move the Easy Joystick Controller to the forward position. This operates smoothly and also regulates speed. Install the cable in the duct with motor power alone until the speed begins to slow down (approximately 30-100 m). Then, compressed air is added. Do not exceed air pressure more than 6 bars to the motors. Micro cables up to 5 mm should never exceed 3 bars of air pressure to the motors.

7.3. Activate Air Pressure

Slowly open the ball valve to allow airflow to the duct clamp. Do not apply maximum air pressure and flow at the first air engagement. Do not open the air supply until the desired speed slows down (approximately 30-100 m). Then gradually increase the air pressure in increments of about 10-20% at a time. Follow the speed of the cable installation and balance air pressure carefully against drive belt speed. Too much air can slow down or stop the installation.

Do not exceed 16 bars when using the device. Compressed air generates flying debris. Always wear personal protective equipment.

7.4. Adjust Speed

Use the regulator to adjust the belt drive speed in combination with the Easy Joystick Controller to ensure smooth installation and match the amount of air pressure used so that the forces cooperate.

7.5. Install Cable

The cable must be dry and clean of dirt.

7.6. Stop Belt Drive

To stop the belt drive, reduce the air pressure on the regulator or move the Easy Joystick Controller to the STOP position. The emergency stop is activated by pressing the red emergency stop knob.

7.7.Gear Selection

⚠️ **Important: The machine has two gear knobs. Both gear knobs must always be set to the same gear before operating the machine. The machine cannot run with one knob in Low Gear and the other in High Gear.**

Low Gear:

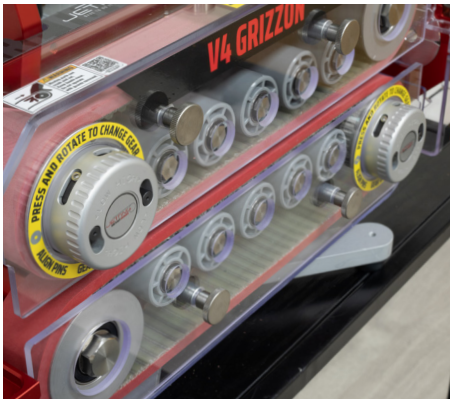
Perform the following steps on both gear knobs:

1. Stop the machine.
2. Open the drive belts.
3. Make sure the pins on the gear knob are aligned at 9 and 3.
4. Press the gear knob inward and turn it to the left (counterclockwise).
5. Ensure that it locks into the Low Gear position.
6. Confirm engagement by rotation the belts by hand with high resistance as result.
   Low Gear = high resistance when rotating the belts by hand.

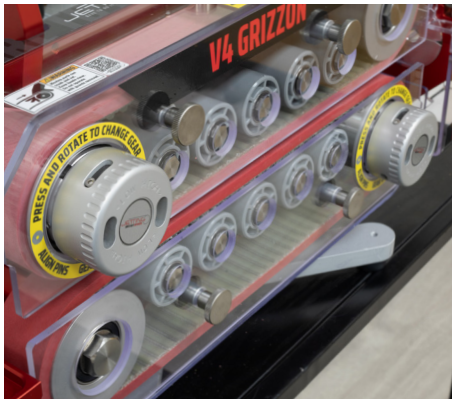
High Gear:

Perform the following steps on both gear knobs:

1. Stop the machine.
2. Open the drive belts.
3. Make sure the pins on the gear knob are aligned at 9 and 3.
4. Press the gear knob inward and turn it to the right (clockwise).
5. Ensure that it locks into the High Gear position.
6. Confirm engagement by rotation the belts by hand with low resistance as result.
   High Gear = low resistance when rotating the belts by hand.



Low Gear



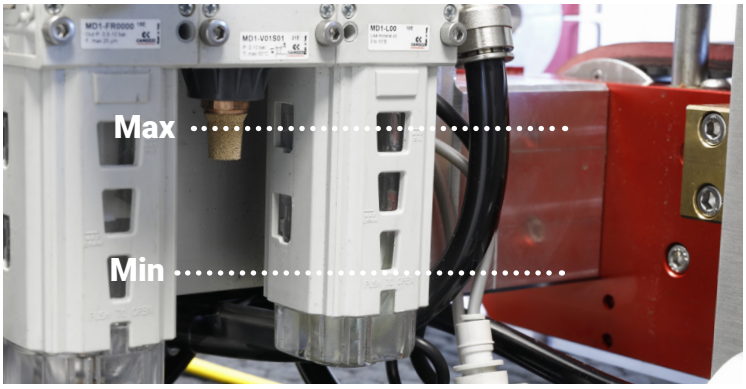
High Gear

Make sure the pins are aligned vertically (9 and 3 positions) before shifting gears.

Do not run motors with an empty or malfunctioning oil container!

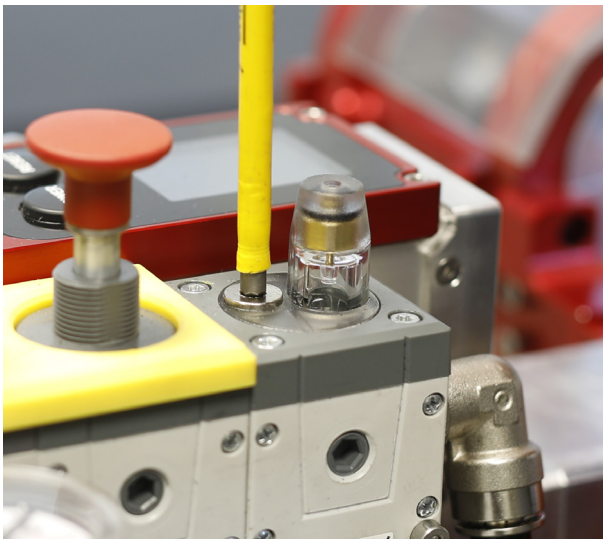
7.8. Check Oil Level

Check the pneumatic oil container to ensure continuous oil mist lubrication to the motors.
The oil level must always be above the hose in the oil container.



7.9. Refill Oil

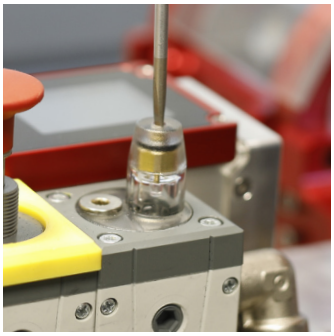
Fill oil by loosening the hex screw on top of the oil container. Use only Jetting Pneumatic oil 32.
You can also refill oil by releasing the oil container, pressing the marked points, and turning it counterclockwise.



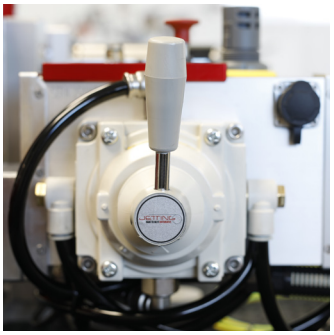
7.10. Calibration of mist lubrication

1. Start the process by activate Machine Safety Shutdown (see 3.1).
2. Use a small flathead screwdriver to turn the adjustment screw clockwise to the bottom.
3. Place the Easy Joystick Controller controller in stop position.
4. Deactivate the emergency stop by pulling the emergency stop knob upwards.
5. Turn the regulator to 0.2 MPa.
6. Position the Easy Joystick Controller controller to 'Forward'.
7. Rotate the adjustment screw counterclockwise
8. Count the number of drops from the tap inside the adjustment screw.
   The correct amount should be **1 drop every 20 seconds.**
9. If necessary, turn the adjustment screw counterclockwise to increase or clockwise to decrease the amount of oil.

1.

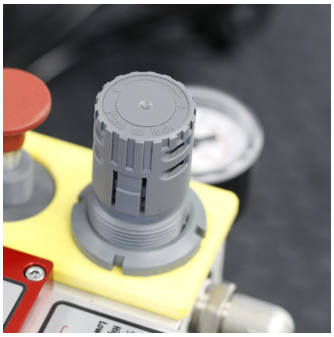


2.



3.

4.



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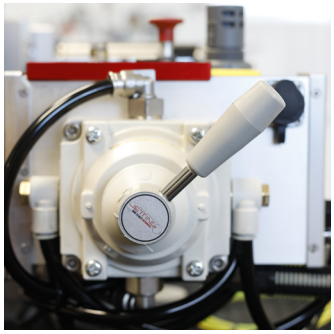

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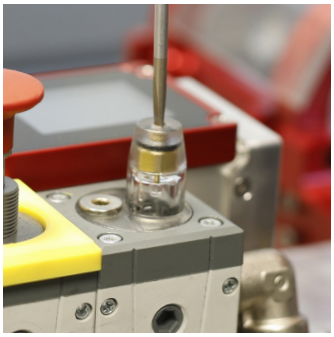

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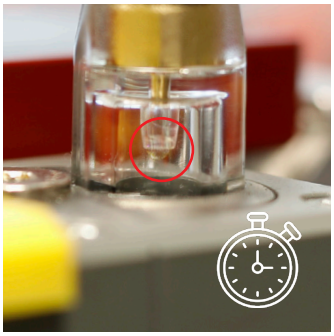
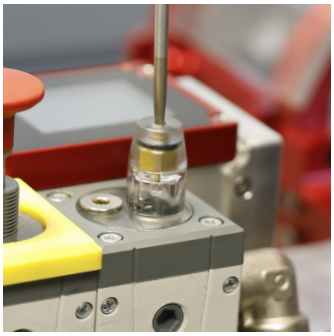


8.



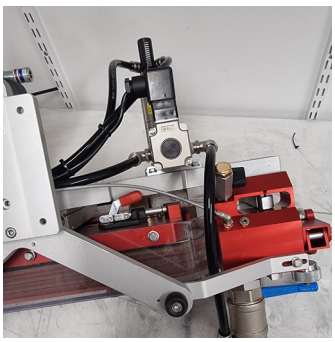
9.

7.11. Motor Lubrication for machines not in use

⚠️**Must be done if the machine is not in use for 2/3 days or longer.**

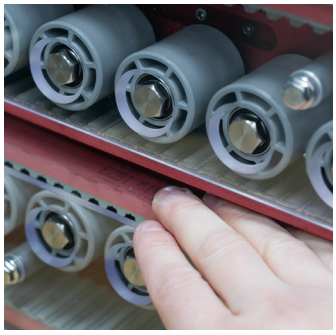
1. Start the process by activate Machine Safety Shutdown (see 3.1).
2. Place V4 upside down. The quick connectors on both motors are now easily accessible.
3. Disconnect one of the air hoses. Pour 10 ml of oil into the coupling. Reconnect the hose. Repeat the same procedure for the second motor.
4. Turn the machine back and rotate the upper and lower drive belts by hand. Rotate a full turn to ensure full lubrication of the motor.

1.



2.

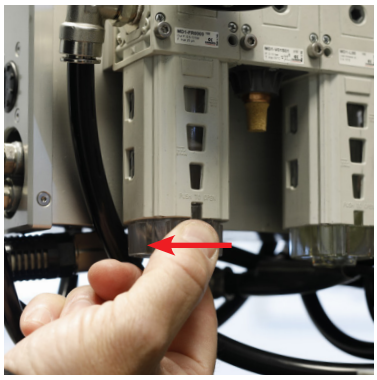
3.



4.

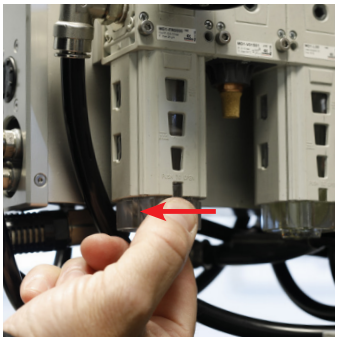
7.12. Drain water separator

To empty the water separator, press the marked points and turn the container to the left. Reattach it by doing the same, then turn it to the right.



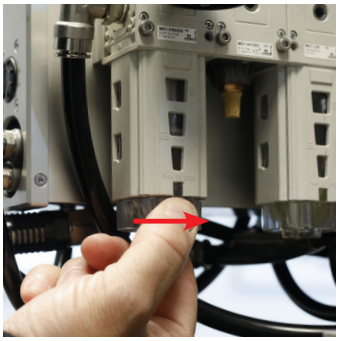
7.13. Replace Water Filter

Replace the water filter once a month, or sooner if it is very dirty.
To change the filter, press firmly at the marked points and turn the container to the left.
Replace the filter, then reattach the container by turning it to the right.



1.

2.

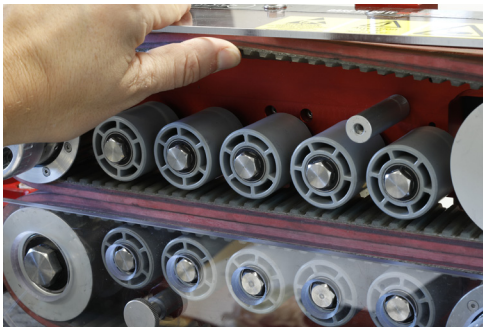


3.

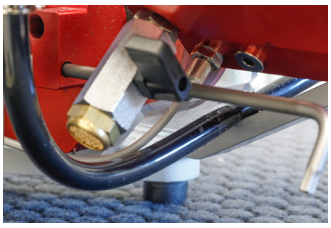
Disconnect the air supply and release any air pressure before inspecting or servicing the V4.

8.1. Drive Belts – Tension Control.

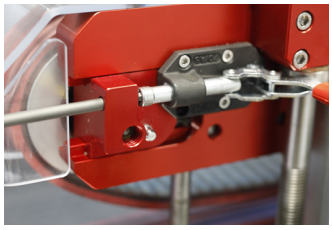
Check the wear of the drive belts. Verify the tension of the drive belts. Properly tensioned drive belts can be checked by folding the drive belt approximately 45 degrees. Ensure that the slide rails are clean and lubricated. WD40 or 5-56 lubricant can be used.



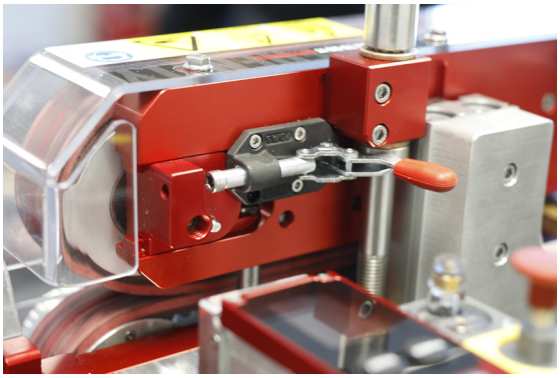
8.2. Adjustment of Drive Belt Tension (Version from 09.2023)

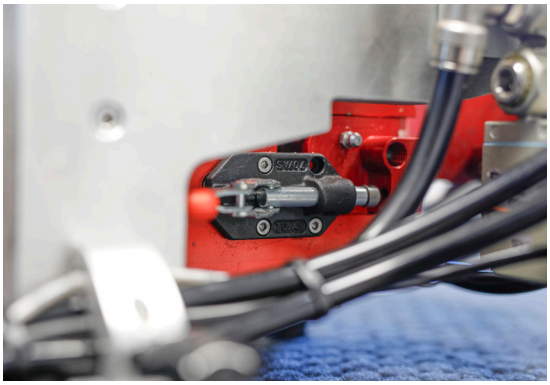


To adjust the drive belt tension: turn the adjustment screw (hex screw M6) counterclockwise to tighten the drive belts or clockwise to reduce tension. The expansion arm increases tension when placed in position. Check the tension of the drive belts until the correct tension is achieved.



8.3. Belt Replacement





Release the tension arms for belt replacement.

8. Maintenance

Disconnect the air supply and vent any air pressure before servicing any component on the V4. Avoid handling leaking connections, valve seals, or inadequately sealed duct clamps. DANGER! Risk of compressed air penetrating the skin causing air embolism. In case of suspicion, immediately contact emergency medical care.

Procedure	Daily	Weekly	Monthly	60 days	90 days
Clean all units and components thoroughly with a dry cloth.	✓				
Inspect hoses, cables, connections, fastening elements, couplings and screws for any signs of damage or looseness.	✓				
Inspect the belt drives. Replace them if excessive wear has occurred. Excessive wear is evident when the belt drives can no longer grip the fiber optic cable effectively.	✓				
Check the oil level. The oil level should never be completely empty. (See section 7.8-7.9)	✓				
Verify the operation of the mist lubricator (See section 7.10)	✓				
Inspect the duct seals (O-rings).					✓
Replace water filter (See section 7.13)			✓		
Motor Lubrication for machines not in use. (See section 7.12)	⚠ **Must be done if the machine is not in use for 2/3 days or longer.**				
Belt Replacement	Every 50 kilometers unless excessive wear occurs.				
Replacement of Cable Seals	Every 10 kilometers unless excessive wear occurs.				
Always use clean, dry, and oil-free air.	Use a compressor with a water separator/dryer.				
Long term storage	Always store the machine in its case when not in use. The machine must be clean and dry before storage. Avoid humid environments and areas with large temperature changes. For storage periods longer than 1–2 months, it is recommended to: • Perform a humidity/environmental check • Rotate the motor shafts and drive wheels manually • Do a visual inspection for corrosion or wear • If possible, run the machine at least once a month Neglecting these maintenance and storage guidelines may void the warranty.				

9. Repair & Service

Repair & Service should be performed by Authorized Jetting Service Center or Jetting AB.
See Authorized Jetting Service Center at www.jetting.se.

10. Troubleshooting

Cable stuck in the duct/conduit	1. Inform the people at the other end of the duct/conduit that an issue has occurred, and the operator will be shutting down the system. 2. Turn off the pneumatic air supply using the air control valve to reduce air pressure from the duct/conduit and duct clamp. 3. Use the counter or measure on the cable to determine where the blockage may be. 4. Notify the supervisor of the issue and work together to determine a solution accordingly.
The drive belts are not feeding the fiber cable.	1. Assist the cable reel by pulling the cable to the machine.
Difficulty restarting cable installation after air to the system has been stopped.	1. The operation can be restarted after the air pressure has increased and stabilized.
Drive belt feed not starting	1. Emergency stop may still be engaged. Reset the emergency stop by pulling the emergency stop knob upwards after turning the regulator counterclockwise to zero and ensuring the Easy Joystick Controller is in the STOP position. 2. Check the oil reservoir.

11. Documentation and Recycling

Order Documentation
For documentation, user manuals, and technical information, please visit www.jetting.se. Alternatively, contact your local distributor for assistance.

Disposal
Follow your country's regulations regarding recycling and disposal of the product.

12. EC Declaration of Conformity

EC DECLARATION OF CONFORMITY OF THE MACHINERY

Original

Directive 2006/42/EC, Annex II 1A

Manufacturer (and where appropriate his authorised representative):

Company:	Jetting AB
Address:	Murgatan 1 522 35 TIDAHOLM SWEDEN

Hereby declares that:

Type of machinery:	Fibre blowing machine
No. of machinery:	V4 Grizzon

Complies with the requirements of Machinery Directive 2006/42/EC.

Complies also with applicable requirements of the following EC directives:

2014/30/EU, EMC

The following harmonized standards have been applied:

EN ISO 12100:2010 Safety of machinery - General principles for design - Risk assessment and risk reduction
EN 60204-1:2018 Safety of machinery - Electrical equipment of machines - Part 1: General requirements

The following other standards and specifications have been applied:

Authorized to compile the technical file:

Name:	Håkan Johansson
Address:	Murgatan 1, 522 35 TIDAHOLM

Signature:

Place and date:	Tidaholm 2025-11-28
Signature:	ted josefsson
Name:	Ted Josefsson
Position:	CEO

13. Warranty

Warranty Period
This product is covered by a warranty for 12 months from the date of purchase. A valid receipt must be presented to claim the warranty.

Warranty Conditions
Damage and defects, which have occurred by improper use, unauthorized modifications or unauthorized repairs, are not covered by the warranty.

Items Not Included in the Warranty
The warranty does not cover normal wear and tear, including but not limited to:

- Drive belts
- Cable guides
- Drive wheels
- Duct clamps
- Sealings
- Accessories

Motor Maintenance Requirements
Regular lubrication of motors is required to maintain warranty coverage.
See 7.11. Motor Lubrication for machines not in use.

Signature:

Place and date:	Tidaholm 2025-12-01
Signature:	ted josefsson
Name:	Ted Josefsson
Position:	CEO

14. Notes

14. Notes

JETTING

DARE TO DO IT DIFFERENTLY.

V4 GRIZZON USER GUIDE AND SAFETY MANUAL

Version 2026-04