

 **STREAMLINE** | INSTRUCTION MANUAL

# ***POWERDRIVE 3***

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## Responsibilities

### General Responsibilities

These operating instructions allows you to use the Streamline™ Powerdrive 3 System safely and efficiently. The instructional booklet must be read before setting up, starting or using your Streamline™ equipment. It is an integral part of the product itself.

Please read the warning and instructions contained in this booklet carefully. They provide important information on the safe use and maintenance of the equipment. Pay particular attention to general safety instructions.

Please keep this booklet in a safe place near your Streamline™ Powerdrive 3 system for future consultation.

Your Powerdrive 3 is constructed according to current safety standard and regulations. The latest and current edition is illustrated in this manual.

The contents of this booklet should be bought to the attention of all users.

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### Manufacturer Responsibilities

Varitech Systems Ltd, the manufacture of Streamline™, holds 12-months warranty on all machines and equipment from the date of purchased (see Warranty section 9)

Varitech Systems Ltd, the manufacture of Streamline™, is in no case responsible for failures or errors caused by modifications to the unit by customer or other persons.

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### Personnel Responsibilities

The Streamline™ Power Drive 3 is designed and manufactured to be operated in industrial applications. It is important that the operator(s) of the equipment have read through these operating instructions thoroughly, and understand all safety instructions and regulations.

The Power Drive 3 system is not intended for use by children, adolescents, persons under the influence of alcohol / drugs or simply lacking experience and knowledge.

These operating instructions are designed to educate the user, informing the operator how to carry out the task at hand successfully, whilst avoiding potential dangers that might occur.

## 2 Technical Specifications

### Technical Specifications

Specification	<i><b>POWERDRIVE 3</b></i>
Country of Origin	United Kingdom
Maximum Height	475mm
Maximum Length	546mm
Maximum Width	403mm
Dry Weight	35.5kg
Dry Weight without hose	23.5kg
Max Inlet Pressure	15bar
Max Inlet Water Flow	25lpm
Supply Voltage	11.5v-15v DC
Standard Water Inlet Connection	John Guest standard fitting
Electrical Power Supply	12V
Minimum Operating Temperature	5°C
Maximum Operating Temperature	80°C
Typical Current Draw	15-25A

Product codes	Description
PR3-01	Streamline® Powerdrive 3 Electric hose reel, no hose - Assembled
PR36002-01	Streamline® Powerdrive 3 Electric hose reel with 100m of 6mm HIVIZ hose - Assembled
PR38002-01	Streamline® Powerdrive 3 Electric hose with 100m of 8mm HIVIZ hose - Assembled

### Safety Regulations

#### Personal Safety

The Streamline™ Powerdrive 3 system is intended solely for the storage and rewind of Water fed Pole Hose application and is recommended to be used with hose provided by Streamline™.

The water cannot be used for human consumption.

Stay alert, watch what you are doing and use common sense when operating the Streamline™ Powerdrive 3. Do not use the reel while you are tired or under the influence of alcohol, drugs or medication. A moment of inattention while operating could result in serious personal injury.

#### Use personal protective equipment to avoid personal injury:



Protective Gloves



Safety Goggles



Protective Footwear

Additional protective equipment such as a dust mask, non-skid safety shoes, hard hat or hearing protection may be required depending on the safety regulations in the operator surroundings.

#### System Safety



##### Anti-Snag Protection

If the hose snags in anyway or is held back for period of time, the unit will cut out the drive motor out to prevent burn out.

It is important to keep all fingers and hands away from chain guide.



##### Overheating

If the motor overheats on the Streamline Power Drive 3 an activation switch is triggered and the system will automatically switch off.

## System Safety



### Lifting

If the Electric Reel needs moving, manual handling care should be taken.



### Pinch Hazard

When operating the electric hose reel, always be mindful of pinch hazards. Keep fingers and skin clear of the reel and moving parts while it is in motion to avoid injury. Ensure the area around the reel is free from obstructions, and never attempt to adjust or touch the hose while it is being reeled in.



### Trip Hazard

Be aware of trip hazards when using the electric hose reel. Ensure the hose is properly managed and kept out of walkways and work areas to prevent tripping. Always reel in the hose when not in use.



### Electrical Hazards

As the Streamline™ Power Drive 3 system is powered by an electrical source, never use the equipment in direct rain, snow or strong winds.

Never use the Streamline™ Powerdrive 3 system to clean people and/or animals.

Before each use, undertake a visual check on all pipes/ cables for damage. Never use the Streamline™ Power Drive 3 with a damaged components.



### Mechanical Hazards

To avoid all mechanical hazards, place the Streamline™ Power Drive 3 on an even surface only, and ensure sufficient stability.

### Important:

Use only original accessories that come with the Streamline Electric Reel System, offering maximum quality and security. Failure to use original accessories absolves Varitech Systems Ltd, the manufacturer from all liability.

## Electrical Specifications & Safety

- Electrical connections must be carried out in respect of current legislation (in compliance with the provisions of the IEC 60364-1 standard) and in accordance with the manufacturer's instructions.
- Please check that the installation and sockets are adequate for the maximum power of the appliance indicated on the rating plate. If in doubt, consult a qualified electrician. The correct plug should be fitted by a qualified electrician.
- Short term and long term storage is an important issue. The Streamline Electric Reel System must be protected from algae and bacteria growth in the pressure vessels caused by stagnant water.
- Vartitech Systems Ltd, the manufactures of Streamline™, declines all liability for damage caused by faulty earthing of the appliance.
- Vartitech Systems Ltd, the manufacture of Streamline™ declines all liability for damage to persons, animals or things caused by faulty or incorrect connection.

**Important:** When using any electrical appliance, certain fundamental rules should be respected

- **Do not** touch the appliance with wet hands or feet;
- Storage of the Streamline™ Powerdrive 3 system when not in use, should be in a clean dry place, away from water supply or temperature drop.

## 4 Operating The Power Drive Reel

### Operating The Power Drive Reel

When purchasing the product, make sure it has an identification plate. If this is missing, notify the distributor / manufacturer where you purchased the unit from.

Use of an appliance without an Identification plate absolves the Manufacturer from all liability. Products without an identification plate should be considered as anonymous and potentially dangerous.



#### Important:

- The unit must always be protected from freezing. Warranty is void if parts are found to have been damaged by frost

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### Storage of the Streamline™ Electric Reel System

- Your Streamline™ Powerdrive 3 System has been carefully manufactured, checked through QC and packaged as a kit.
- Carefully unpack your new Streamline™ Powerdrive 3 and carry out a thorough visual check on all parts. If in doubt, do not use the system. Contact your supplier and/or manufacturer.
- Packaging (bags, boxes, nails, tape etc.) should be kept out of reach of children as they may represent a potential hazard. Packaging can be recycled according to your local legislation.



## Assembling your system

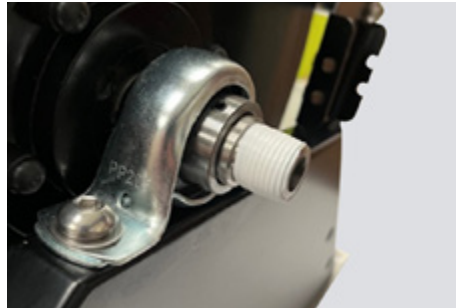
1. Fix the Reel in place using the mount holes provided.



2. Choose the side where you want to install the water inlet pipe, then wrap the threaded end with PTFE thread sealing tape to ensure a watertight seal.



3. Here is an example of a correctly prepared rotary joint connection with PTFE tape applied to the threads, ready for fitting.



## Assembling your system

4. Now screw the water inlet connection onto the rotary joint by hand to ensure proper alignment.

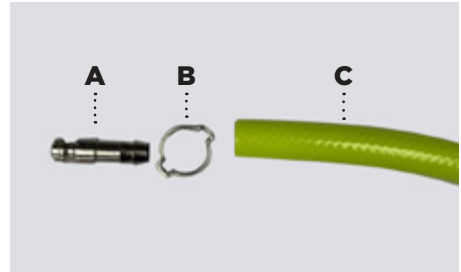


5. Finally, hold the drum steady and use a spanner to tighten the rotary joint by turning it clockwise until secure.



## Connecting your hose for the first time

1. The end of your hose consists of three main components: the 21 Series male adapter (labelled A), the O Clip (labelled B), and the hose pipe itself (labelled C).



2. Slide the O Clip (B) onto the hose (C).

Push the hose onto the barb of the adapter (A) until it reaches the Shoulder.

Slide the O Clip (B) over the barb area.

Crimp the O Clip securely with a Suitable crimping tool.



3. Thread the hose pipe through the hole located at the cross section in the center of your PowerDrive 3 hose reel.



4. Now attach and secure the hose pipe to the hose connection point.



## Connecting/Adjusting your wiring

**Important:** Please note to follow proper safety precautions when adjusting the wiring to the battery and ensure you are using PPE. Do not connect both the **POSITIVE** and **NEGATIVE** wires to the terminals simultaneously as this can lead to an electric shock. Additionally Do not under any circumstances allow the **NEGATIVE** cable to come into contact with the **POSITIVE** terminal of the battery as this will cause significant damage to the controller within the reel.

1. Wiring loom with anderson connector that connects into the back of your reel. This consists of 3 parts.

1. **POSITIVE RED CABLE**
2. **NEGATIVE BLACK CABLE**
3. **ANDERSON CONNECTOR**



2. Connect the Anderson connector from the wiring loom to the matching Anderson connector at the back of your Powerdrive reel. Ensure it is firmly inserted and has a secure connection.

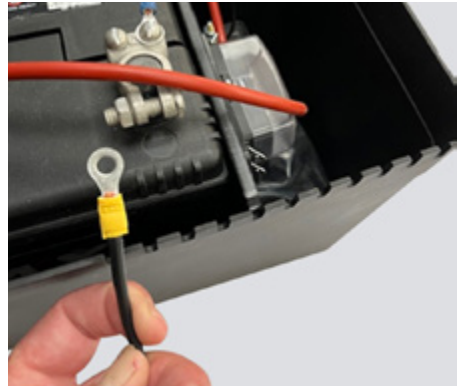


## Connecting/Adjusting your wiring

3. Connect your **POSITIVE RED** cable to the battery terminal. The positive battery terminal is clearly marked with a **+** symbol.



4. Connect your **NEGATIVE BLACK** cable to the battery terminal. The negative battery terminal is clearly marked with a **-** symbol.





5. Here is an Example of a fitted battery terminal with the correct setup of the cables.



## Operating your system

1. Turn on the controller by pressing the  button



2. Now you can adjust the speed of the Reel by using the  and  arrows on the controller. (1 is slow and 4 is fast)



3. To switch off the controller, press the  button and hold for 2 seconds.



4. To activate the hose reel, press and hold the green button on your pendant controller.



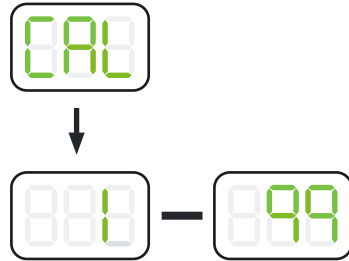
## Controller settings

### Controller snag sensitivity calibration

Press and hold the  and  buttons to enter CAL (calibration).



This can be set between 1 and 99, and adjusts how sensitive the SNG (snag) is.


Use the  or  button to adjust this setting accordingly.  
Press  to set.

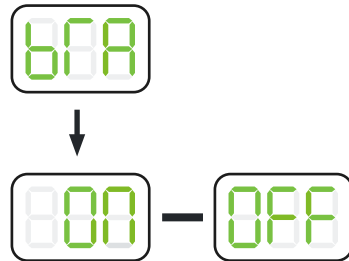


### Controller brake settings

Press and hold the  and  buttons to enter the brake settings.

brA will be displayed. The brake can be switched On or Off by using the  and  buttons.

Set the break option by pressing the  button.



## 5 Malfunctions & Troubleshooting

### Malfunctions & Troubleshooting

#### Low water pressure or poor water production

1. Check water supply is good and consistent.
  2. Air has not been bled from system.
- .....

#### Controller Error Codes



**DSC** - The motor wires have been disconnected. Check wiring the wiring if the message persists

Contact the distributor.



**SNG** - An obstruction has been detected during a rewind. The reel has been stopped for safety reasons, release the operator push button.

Remove the obstruction, then press the push button to restart.



**OC** - An over current has been detected, the controller has shut down the motor to protect itself.

Contact the distributor.

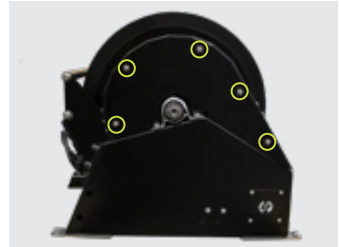


## Chain Tension Adjustment

### 1. **IMPORTANT**

Unplug the power source before making any adjustments to the chain tension.

2. Using a 4mm allen key, unscrew the five bolts securing the front plate on the motor side panel, then remove the side panel.



3. Using a wrench, loosen the top securing nut.



4. Using a 4mm Allen key, loosen the bottom two bolts to allow for chain Adjustment.

Be sure to re-tighten them after completing the chain adjustment.



5. Using a spanner loosen or tighten the bottom nut to adjust the chain tension,

We recommend having 5mm - 10mm of slack on your chain.



## 6 Service & Maintenance

### Service & Maintenance

Care and maintenance of your electric reel will ensure it is well looked after and running smoothly every time.

It is recommended to run a weekly examination on the Streamline™ Electric Reel system to ensure the components and connections are adequate for use, check the tension of the chain monthly to ensure longevity.

We recommend that you lubricate your chain at least once every two months to maximise performance.

Routine maintenance once a year, will add to the life of your reel and we recommend lance seals, pumps and battery are inspected and replaced accordingly to ensure proper rinse clean.

All parts are available from Streamline™ for this service.

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#### Weekly inspection

- Check Streamline™ Electric Reel system is kept clean and chemical free.
- Check all connections are leak free.
- Check all electrical connections for damage.

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#### Disposal of components & machine

Streamline™ Powerdrive 3 is classified as special waste. It must be taken apart and divided into uniform sections which should be disposed of according to current legislation.

Do not use the components removed as spare parts.

## Declaration Of Conformity

EC Declaration of Conformity according to the, RoHS Directive 2011/65/EC. The Power Drive Reel system has been designed and produced by Streamline™ in accordance with the above mentioned EC Directives.

The technical documents are complete. The complete EC Declaration of Conformity with all standards applied can be requested on the Streamline™ Website or directly from Streamline™

Signed by:



Dean Scott  
Director of Streamline™ Europe

## 8 Why Streamline™?

### Why Streamline™?

#### Flexibility

- Streamline™ systems can be built according to customers' exact requirements
- For non-standard systems, the user's needs or specifications are listened to and turned into reality.

#### Quality

- Whilst price is important, quality is remembered long after price is forgotten
- We insist on sourcing brand name products from around the world, only of a reputable quality, and bring them together under the Streamline™ name
- All Streamline™ products carry a full one year's warranty, according to the manufacturers' standard terms and conditions of sale.

#### Service

- We have an in-house technical helpline able to answer most of your questions relating to the capabilities and functionalities of all Streamline™ products
- If we get it wrong, we will put it right. If you are sent a wrong item, we will immediately attend to sending you the correct item and arrange a collection of the wrong item without any quibbles.
- Streamline™ is backed by a comprehensive range with massive stocks providing you with a 'one stop shop' for all your requirements.



**Manufactured In  
The United Kingdom**



**Checked & Tested  
By Quality Control**

### Streamline™ Warranty

The warranty on all machines and equipment is for 1 year (12-months) from RECORDED DATE OF PURCHASE.

THIS WARRANTY EXCLUDES NORMAL MAINTENANCE ITEMS, including but not limited to HOSES, FILTERS, O-RINGS, DIAPHRAGMS, VALVES, GASKETS, CARBON BRUSHES and damage to motors and other components as a result of failure to replace normal maintenance items. THIS LIST IS NOT EXHAUSTIVE.

If Streamline™ receives notice of such defects during the warranty period, Streamline™ will either, at its opinion, repair or replace components which prove to be defective.

Replacement parts will only be supplied under warranty, upon the inspection and approval of the defective parts by Streamline™.

Should it be necessary to supply replacement parts before the opportunity to inspect, these will be charged at current prices and credit will only be issued upon subsequent inspection and warranty approval by Streamline™.

The customer is responsible for the cost of return of the defective part. If warranty is approved, Streamline™ will pay for the cost of the repaired or replacement part.

This warranty excludes the following conditions and circumstances which are at the discretion of Streamline™.

Wear and tear, misuse, abuse improper maintenance, frost damage, the use of chemicals other than those supplied or approved by Streamline™, improper installation or repair, unauthorised modification, incidental or consequential costs, loss or damage, service, labour or third party charges, the cost of returning defective parts to Streamline™.

This warranty constitutes the exclusive remedy of any purchaser of a Streamline™ unit and is in lieu of all other warranties, express or implied, including without limitation any implied warranty of merchantability or fitness for use, to the fullest extent permitted by law. In no event shall any implied warranty of merchantability or fitness for use exceed the term of the applicable warranty stated above and Streamline™ shall have no other obligation or liability.

#### Important

Unfortunately these rights cannot be transferred to a third party.



Notes

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# ***POWERDRIVE 3***

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