

# Lithium-powered Pipe Cleaner

## Operation Manual



**Important Notice:** For your personal safety, you must read this manual thoroughly before assembling and using this product. Understand the unique operations, applications, and potential issues of this equipment. Keep this manual properly for future reference.

### I. Safety Symbols

This operation manual and the product itself use specific safety symbols and terminology to express important safety precautions and guidelines. This section aims to help users better understand these symbols and terms.

**⚠** This is the Safety Alert Symbol – It alerts you to potential hazards that could cause personal injury. Follow the safety information provided to avoid accidents, including serious injury or death.

**⚠ DANGER** DANGER – Indicates a hazardous situation that, if not avoided, will result in death or serious injury.

**⚠ WARNING** WARNING – Indicates a hazardous situation that, if not avoided, could result in death or serious injury.

**⚠ CAUTION** CAUTION – Indicates a hazardous situation that, if not avoided, could lead to minor or moderate injury.

**NOTICE** NOTICE – Provides information related to property protection. This symbol emphasizes that users must read the operation manual before using the tool, as it contains important safety precautions and correct usage methods.

1

**⚠** This symbol means – Always wear safety goggles with side shields and stay alert while operating the tool.

**⚠** This symbol indicates – Risk of crushing hands, fingers, or other body parts.

**⚡** This symbol indicates – Risk of electric shock.

### II. Basic Safety Instructions

#### WARNING!

Read all safety warnings and instructions carefully. Failure to follow these instructions may result in electric shock, fire, and/or serious injury. Keep all safety warnings and instructions for future reference. The term "power tool" in this manual refers to both tools powered by a cord connected to an external power source and tools powered by a battery.

#### Work Area Safety

1. Do not operate the tool in explosive atmospheres, such as in the presence of flammable liquids, gases, or dust. Power tools create sparks, which may ignite the dust or fumes.

2

2. Keep your work area clean, well-lit, and organized. Cluttered or dark areas invite accidents.

3. Keep children, bystanders, and other personnel away from the work area while operating the tool. Distractions can cause you to lose control.

**Electrical Safety**

1. Avoid using the power tool in damp or wet locations. If use in a damp environment is unavoidable, use a Ground Fault Circuit Interrupter (GFCI) protected supply. Using a GFCI reduces the risk of electric shock.

2. The power tool plug must match the outlet. Never modify the plug in any way. Do not use adapter plugs with earthed (grounded) power tools. Using unmodified plugs and matching outlets will reduce the risk of electric shock.

3. Do not abuse the cord. Never use the cord for carrying, pulling, or unplugging the power tool. Keep the cord away from heat, oil, sharp edges, or moving parts. Damaged or entangled cords increase the risk of electric shock.

4. Do not expose the power tool to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.

5. When using the tool outdoors, use an outdoor-rated extension cord. Using a cord suitable for outdoor use reduces the risk of electric shock.

3

### Personal Safety

1. Use personal protective equipment. Always wear safety goggles. Protective equipment such as a dust mask, non-skid safety shoes, a hard hat, or hearing protection, used appropriately, will reduce the risk of personal injury.
2. Maintain a stable body position and proper footing. Do not overreach. This ensures you maintain better control of the tool in unexpected situations.
3. Prevent unintentional starting. Ensure the tool is switched off before connecting it to a power source or battery pack.
4. Stay alert, watch what you are doing, and use common sense when operating the tool. Do not use the tool while you are tired or under the influence of drugs, alcohol, or medication. A moment of inattention while operating the tool may result in serious personal injury.

### III. Product Overview, Specifications, Standard Configuration & Operating Instructions

#### Product Overview

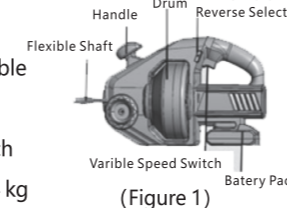
This machine is a handheld pipe cleaner designed to clear blockages in pipes ranging from 3/4 inch to 2 inches in diameter, such as kitchen sinks and bathroom drains.

This cleaner features an independent handle controlling a roller clutch mechanism with an automatic feed system, enabling the automatic forward and reverse movement of the flexible shaft, reducing manual operation.

4

### Specifications

Voltage: 18V  
Switch: Variable Speed Switch, Reversible  
Speed: 0-800RPM  
Pipe Clearing Capacity: 3/4 inch - 2 inch  
Weight (with 2.0Ah battery pack): 3.34 kg



#### Pre-Operation Check

1. Check the battery pack charge level.
2. Inspect the cable plug for any damage.
3. Check that the waterproof plug on the drum is properly installed.
4. Inspect the machine components for any damage that might pose a safety risk.
5. Select the appropriate accessory for pipe cleaning to improve efficiency and quality.
6. Clean any dirt from the handle and machine body before use.
7. Check the work area to ensure adequate lighting and the absence of flammable liquids, gases, or dust. Check the connection between the power cable and socket to ensure the cable cannot be damaged.
8. Inspect the flexible shaft for wear or damage. If the flexible shaft is worn smooth, rusted, bent, or deformed, replace it immediately.
9. Never point the flexible shaft end of the tool towards the operator or other persons at any time.

5

### Operating Instructions

#### Controls

**NOTICE:** Familiarize yourself with the machine's functions and practice operation before use.

**NOTICE:** Always switch off the tool and remove the battery pack before adjusting or checking any functions.

#### Charging

Normal charging can be performed when the ambient temperature is between 0°C and 45°C.

First, insert the charger plug into the charging port of the battery pack. The red light on the charger will illuminate, indicating that normal charging is in progress. When the red light turns off and the green light illuminates, check the charge indicator on the back of the battery pack. If all four lights are lit, charging is complete. (NOTE: If the green light is on but not all four indicator lights are lit, this indicates a fault with the battery pack or charger. Stop use and refer to a qualified professional for repair.) After charging is complete, unplug the charger from the mains power socket and then disconnect the battery pack from the charger. After allowing the battery pack to cool slightly, insert it into the tool for use. This charger (included in the supply scope) is specifically designed for the lithium-ion battery in this tool. Do not use chargers from other brands.

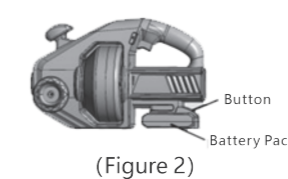
6

### Charge Indicator

To allow the operator to check the remaining battery charge, the battery pack is equipped with a charge indicator button and four LED indicator lights on its end. Press the indicator button. If all four lights illuminate, the battery charge is sufficient. If only two lights illuminate, the battery is nearly depleted and requires recharging as soon as possible.

#### Battery Pack Installation & Removal

1. Ensure the tool is switched off before inserting or removing the battery pack.
2. To install the battery pack, align the ribs on the battery pack with the grooves on the tool's housing and slide it firmly into place until it clicks and locks. Ensure it is fully inserted, otherwise the battery pack may detach unexpectedly, causing injury.
3. To remove the battery pack, press the button on its end and slide it out of the tool.
4. Do not use excessive force when inserting the battery pack. If it does not slide smoothly, it may be misaligned. (Figure 2)



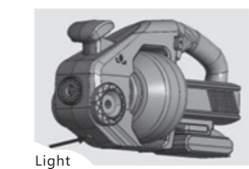
7

### Variable Speed Switch

The switch controls the speed, variable between 0 and 800 RPM. Apply pressure to the switch; greater pressure results in higher speed.

#### Work Light

**CAUTION:** DO NOT look directly into the light or the light source! The work light is activated by pulling the switch trigger. The light remains on while the trigger is pressed and turns off when the trigger is released. (Figure 3)



(Figure 3)

#### Light

Clean the lamp head with a clean cloth to prevent scratching, which can reduce brightness.

#### Forward/Reverse Switch

This switch controls the rotation direction of the flexible shaft. Press 'L' for forward rotation and 'R' for reverse rotation. The trigger cannot be pulled when the selector is in the central position.

8

Always confirm the tool's rotation direction before operation. Only change the forward/reverse selector after the tool has come to a complete stop.

When the tool is not in use, always set the forward/reverse selector to the central position to prevent accidental operation.

**NOTICE:** Reverse rotation should ONLY be used to retract the flexible shaft if it becomes stuck. (Figure 4)



#### Automatic Flexible Shaft Feed

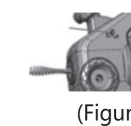
1. With the Forward/Reverse button set to 'L':

- 1) Gently press the variable speed switch and pull the operating handle forward to the 'F' position to feed the flexible shaft forward. (Figure 5)

- 2) Gently press the variable speed switch and pull the operating handle backward to the 'R' position to retract the flexible shaft. (Figure 6)

9

2. **⚠ DANGER** With the Forward/Reverse button set to 'R', the flexible shaft feed direction is reversed. (SPECIAL NOTE: Operation of the machine in reverse (with the selector set to 'R') is PROHIBITED. Operating in 'R' will damage the flexible shaft. 'R' should ONLY be used to retract the flexible shaft if it becomes stuck.)
3. When the operating handle is in the 'C' position (neutral), the flexible shaft will not feed forward or reverse, regardless of the rotation direction. (Figure 7)



(Figure 7)

#### Pipe Cleaning (Familiarize yourself with the automatic flexible shaft feed operation before starting, otherwise personal injury or tool damage may occur)

1. Position the tool head less than 150 mm (6 inches) from the pipe opening. A greater distance may cause the flexible shaft to tangle or knot. Do not place the tool head directly against the pipe opening, as this hinders observation of the flexible shaft. (Figure 8)



(Figure 8)

10

2. Set the Forward/Reverse button to 'L'. Gently press the variable speed switch and pull the operating handle to the 'F' position to feed the flexible shaft forward and begin cleaning. After clearing the blockage, pull the operating handle to the 'R' position to retract the flexible shaft.
3. If you encounter a stubborn blockage or resistance in a bend, pull the operating handle back to retract the flexible shaft slightly, then feed it forward again. Repeatedly switch the handle between 'F' and 'R' to clear the blockage or navigate the bend. NEVER force the flexible shaft forward, as this can cause it to tangle, knot, break, and cause serious injury.
4. If the blockage is particularly stubborn, use this method: Gently press the variable speed switch and alternate the operating handle between the 'F' and 'C' positions. Proceed slowly according to the situation, closely watching the flexible shaft feed. If the flexible shaft shows signs of resistance, tangling, or knotting, immediately release the switch to stop the tool. Do not force the flexible shaft.
5. **SPECIAL ATTENTION!** If the flexible shaft becomes stuck in the pipe (unable to clear the blockage or retract), set the Forward/Reverse button to 'R' and pull the operating handle forward to retract the flexible shaft.

**NOTE: Pipe blockages vary. Always observe the flexible shaft condition closely during use. If twisting or resistance occurs, stop the machine immediately and adopt the appropriate operation method based on the situation. If the pipe cannot be cleared, seek help from a qualified professional. Do not force operation, which may cause unnecessary complications.**

11

#### How to Replace the Flexible Shaft

Ensure the battery pack is removed before replacement! The lithium-powered pipe cleaner features a convenient flexible shaft replacement system.

Move the operating handle to the 'C' (neutral) position. Manually pull the old flexible shaft out of the drum. Then, manually feed the new flexible shaft into the drum. NEVER activate the tool to retract the flexible shaft. An exposed flexible shaft can lead to unpredictable personal injury, tool damage, property damage, fire, or electric shock. If the flexible shaft cannot be replaced normally, send the tool to an authorized service center for repair.

### IV. Battery Use and Maintenance

1. Use only the specifically designated battery pack with your power tool. Using other battery packs may cause personal injury or fire.
2. Charge the battery pack only with the charger specified by the manufacturer. Using a charger designed for one type of battery pack to another type may cause a fire.
3. When not in use, keep the battery pack away from metal objects such as paper clips, coins, keys, nails, screws, or other small metal items that could make a connection from one terminal to another. Shorting the battery terminals together may cause burns or a fire.

12

4. Under abusive conditions, liquid may be ejected from the battery. Avoid contact with this liquid. If accidental contact occurs, rinse with water. If the liquid contacts your eyes, seek medical attention. Leaking battery fluid can cause skin irritation or burns.

#### Important Safety Instructions for Battery Pack

1. Before using the battery pack, read all instructions and heed all warnings on (1) the charger, (2) the battery pack, and (3) the product using the battery pack.
2. If operating time becomes excessively long, stop operation immediately. Overheating may, potentially cause burns, fire, or explosion.
3. Do not disassemble the battery pack.
4. If battery fluid gets into your eyes, rinse them immediately with clean water and seek medical attention. Failure to do so could risk eye damage.
5. Do not short-circuit the battery pack.
6. Always keep the battery terminals covered when the battery pack is not in use.
7. Charge the battery pack in an ambient temperature range of 0°C to 45°C (32°F to 113°F). Allow a hot battery to cool down before charging.
8. If the lithium-ion battery pack has not been used for more than six months, charge it.

13

7. Do not incinerate the battery pack, even if it is severely damaged or completely worn out. The battery pack can explode in a fire.
8. Never store the machine or battery pack in locations where the temperature may exceed 50°C (122°F).
9. Take care not to drop or subject the battery pack to strong impacts.

#### RETAIN THIS MANUAL

#### ⚠ WARNING:

Improper tool use or failure to follow the safety rules listed in this manual can result in serious personal injury.

Tips for Maintaining Maximum Battery Pack Service Life.

1. Never charge a battery pack that is already fully charged. Overcharging shortens battery life.
2. Charge the battery pack before it is completely discharged. If you notice a drop in tool power, stop work and charge the battery pack.
3. Charge the battery pack in an ambient temperature range of 0°C to 45°C (32°F to 113°F). Allow a hot battery to cool down before charging.
4. If the lithium-ion battery pack has not been used for more than six months, charge it.

14

### V. Service

Have your power tool serviced by a qualified repair person using only identical replacement parts. This will ensure that the safety of the power tool is maintained.

### VI. Product Safety Notices

This section contains important safety information specific to this tool. Read these instructions carefully before use to reduce the risk of electric shock or serious personal injury. Retain these safety instructions for future reference!

#### Pipe Cleaner Safety Guidelines

- This operating manual contains specific machine safety information and operating instructions to prevent the following serious personal injuries:
- (1) Injury to fingers, hands, arms, or other parts of the body if clothing or gloves become entangled in rotating parts.
  - (2) Electric shock or burns from contact with the motor or other electrical components.
  - (3) Eye injury caused by the flexible shaft, power cord, or flying debris.

15

Read and obey the safety labels on the machine. Familiarize yourself with the location and function of all controls before using the machine.

#### ⚠ WARNING

The flexible shaft can wrap around or break, causing injury to fingers, hands, or other body parts.

#### Machine Safety:

1. Wear close-fitting gloves and protective goggles.
2. Do not use loose gloves or cloth to grip a rotating flexible shaft, as they can become entangled, causing serious injury.
3. Do not force the flexible shaft. Forcing a blocked flexible shaft can cause it to coil/kink or break, resulting in serious injury.
4. Keep the tool as close to the pipe opening as possible. When it is difficult to get the tool close to the pipe, use the front guide tube. Excessive distance can cause the flexible shaft to break or coil/kink. (Figure 9)



(Figure 9)

16

5. Using a transparent guide tube can help prevent the flexible shaft from whipping and throwing debris.

6. **SPECIAL NOTE:** Operation of the machine in reverse (with the selector set to 'R') is PROHIBITED. Operating in 'R' will damage the flexible shaft. 'R' should ONLY be used to retract the flexible shaft if it becomes stuck.

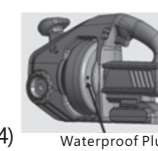
7. When chemicals have been used in the drain, avoid contact with skin or eyes. Some chemicals can cause severe burns.
8. Do not use the tool if the operating handle, switch, power plug, or fuse is damaged. A poorly maintained tool can cause serious injury.
9. This tool is intended for cleaning and clearing drain pipes. Use it only as described in this manual. Incorrect use can lead to hazardous situations.

### VII. Machine Storage and Maintenance

Always switch off the tool and remove the battery pack before performing any inspection or maintenance!

17

After each use: 1) Manually rotate the drum until the waterproof plug is accessible; 2) Remove the waterproof plug by hand; 3) Stand the tool upright to allow any liquid inside the drum to drain completely; 4)



(Figure 10)

Reinstall the waterproof plug. (Figure 10) Thoroughly clean the flexible shaft and drum. If the tool will not be used for an extended period, apply anti-rust oil or grease to the flexible shaft surface to prevent corrosion. Store the tool in a dry, well-ventilated place. Avoid damp environments to prevent the motor from moisture damage or metal parts from corroding. Periodically check the battery pack contacts to ensure they are clean and free of dust, which can affect performance. For long-term storage, it is recommended to perform a charge-discharge cycle on the battery every three months, maintaining the charge level at approximately 50%. Before storage, ensure the flexible shaft is thoroughly cleaned of dirt and residue, and its surface is lubricated. After any maintenance, confirm all components are securely reinstalled before putting the equipment back into service.

18

#### Product Service and Warranty Card:

Name:		Phone:	
Address:			
Product Name:		Model:	
Purchase Date:	Year	Month	Day
Invoice/Receipt Number:			
Dealer Contact:	Name	Phone	
Description of Fault:			

19