



**BN Products - USA, LLC.**

A Division of Benner-Nawman, Inc. - Wickenburg, AZ

# MODEL: BNEFT

## Electric Fish Tape Puller

### OPERATIONS MANUAL



December 19, 2022

BNEFT Fish Tape Puller Manual.indd

Warning! Read the user manual carefully, especially the Tool Safety Warnings, before using this tool. Failure to understand and follow the instructions may result in electrical shock, fire and/or serious personal injury.

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*thank you*

Thank you for choosing our BNEFT Electric Fish Tape Puller. This manual covers the proper operation and maintenance. Before operating, please read this manual carefully for important procedures and safety.

All technical data and drawings in this manual are consistent with the information on this product. However, as a result of revisions and other ongoing updates, the contents of this manual may be slightly different from the actual product. BN Products reserves the right to make changes at any time, without notice and without incurring any obligation.

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This manual is a permanent part of this wire pulling tool and should accompany the product if it is resold.

## **WORK AREA SAFETY**

- Keep work area clean and well lit. Cluttered or dark areas invite accidents.
- Do not operate power tools 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.
- Do not use the device in wet or humid environment.
- Keep children and by-standers away while operating the Threading machine. Distractions may cause you to make lose control of the device.

## **ELECTRICAL SAFETY**

Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools. Grounded tools must be plugged into an outlet properly installed and grounded in accordance with all codes and ordinances. Never remove the grounding prong or modify the plug in any way. Check with a qualified electrician if you are in doubt as to whether the outlet is properly grounded. Unmodified plugs and matching outlets will reduce risk of electric shock.

- Avoid body contact with earthed or grounded surfaces such as pipes, radiators, ranges and refrigerators. There is an increased risk of electrical shock if your body is earthed or grounded.
- Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electrical shock.
- Do not abuse the cord. Never use the cord to carry the tool or pull the plug from an outlet. Keep cord away from heat, oil, sharp edges or moving parts. Replace damaged cords immediately. Damaged cords increase the risk of electric shock.
- When operating a power tool outside, use an outdoor extension cord marked “W-A” or “W”. These cords are rated for outdoor use and reduce the risk of electric shock.
- If operating a power tool in a damp location is unavoidable, use a ground fault circuit interrupter (GFCI) protected supply. Use of a GFCI reduces the risk of electric shock.

## **PERSONAL SAFETY**

Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication. A moment of inattention while operating power tools may result in serious personal injury.

- Use personal protective equipment. Always wear eye protection. Protective equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.
- Prevent unintentional starting. Ensure the switch is in the off-position before connecting to power source and/or battery pack.
- Carrying power tools with your finger on the switch or energizing power tools that have the switch on invites accidents.
- Remove any adjusting key or wrench before turning the power tool on. A wrench or a key left attached to a rotating part of the power tool may result in personal injury.
- Do not overreach. Keep proper footing and balance at all times. This enables better control of the power tool in unexpected situations.
- Dress properly. Do not wear loose clothing or jewelry. Keep your hair, clothing and gloves away from moving parts. Loose clothes, jewelry or long hair can be caught in moving parts.

## POWER TOOL USE AND CARE

- Use the correct power tool for your application. The correct power tool will do the job better and safer at the task for which it was designed.
- Do not use the power tool if the switch does not turn it on and off. Any power tool that cannot be controlled with the switch is dangerous and must be repaired.
- Remove the battery pack before making any adjustments, changing accessories, or storing power tools. Such preventive safety measures reduce the risk of starting the power tool accidentally.
- Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool. Power tools are dangerous in the hands of untrained users.
- Maintain power tools and accessories. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tool's operation. If damaged, have the power tool repaired before use. Many accidents are caused by poorly maintained power tools.
- Use the power tool, accessories and tool bits etc. in accordance with these instructions, taking into account the working conditions and the work to be performed. Use of the power tool for operations different from those intended could result in a hazardous situation.
- Keep handles and grasping surfaces dry, clean and free from oil and grease. Slippery handles and grasping surfaces do not allow for safe handling and control of the tool in unexpected situations.

## 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.

## BNEFT Safety Instructions

- Make sure you are balanced before using the device. If the fish tape or cable snaps, you could fall or be injured.
- Do not use on or near live circuits. When working near electrical equipment, use extreme caution. Make sure all power to nearby wires is turned off or disconnected.
- When using the device, avoid leaning on the drum or stopping it from turning.
- When operating the device, use one hand on the trigger grip and one on the handle.
- Do not insert your fingers or try to touch the drum or the fish tape shaft when the battery is connected.
- Make sure to remove the battery before service or maintenance.
- Before operating the device, make sure all parts are secure and in place.
- Disconnect the battery before storing the device.

- Use this device only with the original accessories provided, or with replacement parts provided by an authorized service provider.

## CHARGING THE BATTERY

**Before using the battery charger, read all warnings and instructions.**

- To reduce risk of injury, use only a BN rechargeable battery. Other type of batteries may burst, causing personal injury and/or damage.
- Before you plug the battery charger in, make sure the voltage matches the voltage rating label on the charger.
- Do not expose the battery charger to moisture, rain, or snow.
- Use of any attachment not recommended or sold by the battery charger manufacturer may result in a risk of fire, electric shock, or injury to persons.
- To reduce risk of damage, use the plug to disconnect the charger. Do not pull on the cord.
- Make sure the cord is placed so that it will not be stepped on, tripped over, or otherwise create a safety hazard.
- Do not use with an extension cord.
- Do not operate the battery charger with damaged cord or plug. Return to an authorized service provider for replacement.
- Do not use the charger if you see anything broken, hear an abnormal sound or notice other suspicious operation.
- Do not disassemble the battery charger. If needed, contact an authorized service provider to have it repaired. Incorrect reassembly may result in a risk of electric shock or fire.
- To reduce risk of electric shock, unplug the charger from the receptacle before attempting any cleaning. Simply removing the battery will not reduce this risk.

## LITHIUM BATTERY MAINTENANCE

- To reduce risk of injury, use only a BN brand rechargeable battery with the BN charger.
- The battery has a mechanism that protects it from overcharging when used with the BN charger. Other brands, imitations, or refurbished batteries can result in fatal injuries and heavy workspace damage due to battery explosions.
- When the battery pack is not in use, keep it away from small metal objects, such as paper clips, coins, keys, nails, or screws. They can make a connection from one terminal to another, and shorting the battery terminals may cause burns or a fire.
- If the battery is mishandled or abused, liquid could be ejected from the battery. Avoid contact, as it may cause irritation or burns. If contact with skin

accidentally occurs, flush with water. Seek medical help if you get the liquid in your eyes.

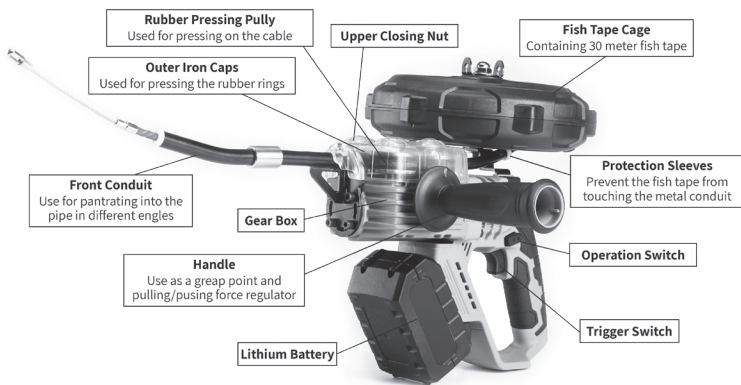
- Do not use a battery pack or tool that is damaged or modified. Damaged or modified batteries may exhibit unpredictable behavior, resulting in fire, explosion, or risk of injury.
- Do not expose a battery pack or tool to fire or excessive temperature.

### **Exposure to fire or high temperature may cause an explosion.**

Follow all charging instructions and do not charge the battery pack or tool outside the temperature range specified in the instructions. Charging improperly or at temperatures outside the specified range may damage the battery and increase the risk of fire.

The BNEFT provides an easy solution for both high and low-voltage cable threading, making your life easier and saving you time and money. The tool is equipped with a powerful brushless motor and gear box that can quickly feed and retract the 30-meter polymer fish tape installed on its drum.

#### **Drawing and Functional Description**



### **SETTING UP THE BNEFT**

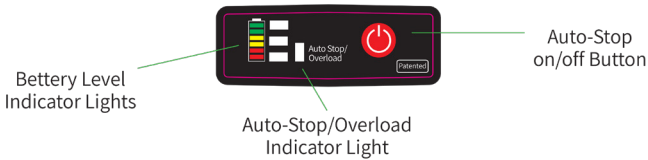
Before your first use, remove everything from the packaging. Ensure that all parts are included and the battery is disconnected. Then follow the steps below.

- Attach the handle by screwing it into the threads on the side of the body. It is your grip on the handle that allows you to regulate the cable pull and thrust power.
- Make sure the battery is fully-charged.
- Insert the battery until you hear a click.
- The device is ready to use.

- Please read all instructions that follow before using it.

## AUTO-STOP FUNCTION

### Drawing and Functional Description



With the Auto-Stop function, the threading machine will remember the length of the fish tape inserted into the tube. Then, when you pull the tape back, it will stop a few inches short of its original setting point. The Auto-Stop function is a red button, located near the battery level indicator light on the control panel.

1. To set the starting point, press and release the trigger switch to turn on the battery level indication light. Then press the red button. The vertical green light will turn on, indicating the Auto-Stop function is on.
2. To cancel the Auto-Stop function, press the red button again while the battery level indicator light is on. The vertical green light will turn off.
3. If you choose not to use the Auto-Stop function, always watch the upper window on the front conduit and stop pulling when you see the orange tip. Continuing to pull can cause damage to the gear or the fish tape when it reaches the end.

## USING THE BNEFT

1. To push the fish tape, set the operation switch to the left. To pull the fish tape out, set it to the right.
2. Adjust the front conduit to fit the fish tape threading direction.
3. Insert the front conduit into the tube, tighten the handle and start pushing the fish tape. Important: The drum must be free to turn, or it can damage the device. Do not ever lean on the fish tape drum or stop it from turning.
4. Keep pushing the fish tape until it comes out the other end of the tube.
5. Connect the wires and tie them tightly to the tip of the fish tape.
6. Set the operation switch to the right. Start pulling the tape and wires. Adjust the thrust and speed as necessary by turning the handle.
7. The Auto-Stop function will stop the device when the fish tape has retracted back to the starting point.
8. If the Auto-Stop function is turned off, you should manually stop the device when the orange end of the fish tape is visible in the front conduit.
9. Pull the device back manually to expose more wire from the tube.

**Note: Use the handle with care. Don't apply too much force to sensitive cable, or you may break it.**

## **CLEANING AND STORAGE**

- After each use, disconnect the battery and wipe any oil, grease, or dirt from the device.
- To store, unscrew the handle and place the device in the fabric bag.
- Store the device in a cool indoor space with no direct exposure to sunlight.
- Handle the batteries with care
- Insert the tip of the lubrication tube (provided in the replacement parts kit) and squeeze twice in each hole.
- Replace and tighten the two nuts.

## **REPLACING THE FISH TAPE AND PROTECTION SLEEVES**

When replacing the fish tape, make sure the new tape measurements don't exceed the device specifications.

## **REMOVING THE FISH TAPE**

- Place the threading machine on a flat surface. You will need the replacement parts kit for this operation.
- Push the operation switch to the left.
- Press the trigger switch, pushing the fish tape to its end.
- Push the operation switch to the right.
- Press the trigger switch and pull the fish tape back a bit.
- Remove the battery.
- Unscrew the nuts from the top of the fish tape drum and remove the bolts holding the drum.
- Remove the drum from its bracket and disconnect it from the fish tape.
- Unscrew the gear protection cover and remove it.
- Unscrew the front conduit bolts.
- Use the Hex key from the replacement parts kit to remove the screws that hold the protection sleeve to the front conduit.
- Loosen the handle until the rubber pulleys are not applying pressure to the fish tape.
- Unscrew and remove the two nuts, metal caps, and rubber pulleys located at the back of the gear box.
- Remove the protection sleeve that is located just behind the rubber pulleys.
- Use the Hex key from the replacement parts kit to release the screw and remove the protection sleeve located on the back of the rear conduit.



- Remove the fish tape completely through the front conduit.

## **REPLACING THE FISH TAPE**

1. Insert the new fish tape through the front conduit.
2. Insert the two protection sleeves back into the front conduit and fasten the screws.
3. Insert the fish tape into the rear conduit, feeding it from the front to the back.
4. Replace the front conduit and tighten the bolts that hold it.
5. Insert the two protection sleeves into the rear conduit. Fasten the sleeve screw on the one at the back.
6. Replace the two rubber pulleys and the caps. Tighten the nuts.
7. Tighten the handle, making sure the fish tape is centered between the four rubber pulleys.
8. Replace the gear protection cover and tighten the screws.
9. Insert the fish tape into the drum. Feed it from the bottom of the drum, out through upper left hole, and then back into the upper right hole to lock it.
10. Place the drum on its bracket and fasten the nuts and bolts to secure it.
11. Insert the battery
12. Push the operation switch to the right.
13. Press the trigger switch and pull the fish tape until the orange tip of the fish tape appears in the front conduit.

## **REPLACING THE RUBBER PULLEYS**

1. Remove the battery.
2. Unscrew the nuts from the top of the fish tape drum and remove the bolts holding the drum.
3. Remove the drum from its bracket and disconnect it from the fish tape.
4. Unscrew the gear protection cover and remove it.
5. Loosen the handle until the rubber pulleys are not applying pressure to the fish tape.
6. Unscrew and remove the nuts from the four pulleys.
7. Remove the four metal caps and rubber pulleys.
8. Place the new rubber pulleys in an upright position, making sure the parallel lines on the rubber pulleys are aligned to the bottom pulleys.
9. Replace the metal caps and nuts. Tighten the nuts.
10. Tighten the handle, making sure the fish tape is centered between the four rubber pulleys.
11. Replace the gear protection cover and tighten the screws.
12. Insert the fish tape into the drum. Feed it from the bottom of the drum, out through upper left hole, and then back into the upper right hole to lock it.
13. Place the drum back on its bracket and fasten the nuts and bolts to secure it.

## **Troubleshooting Table**

Problem	Possible Reason	Solution
The device will not run	<ol style="list-style-type: none"> <li>1. The battery is discharged.</li> <li>2. The battery is disconnected.</li> </ol>	<ol style="list-style-type: none"> <li>1. Press the trigger and check the battery level display. If no light, charge the battery or replace it with a charged one.</li> <li>2. Remove the battery and reconnect it till you hear a click.</li> </ol>
The device won't retract the fish tape. Pull function stops responding .	<ol style="list-style-type: none"> <li>1. Auto-stop function is on.</li> <li>2. The fish tape is stuck and the overload protection stopped the operation.</li> </ol>	<ol style="list-style-type: none"> <li>1. Press the trigger to see if the vertical green light is on. If so, press the red button on the control panel, so the vertical light turns off. This will set the device to manual mode, enabling you to resume pulling the fish tape.</li> <li>2. To release overload protection, press the trigger and then the red button until the vertical green light turns off.</li> </ol>
The device is working, but it won't feed the fish tape.	<ol style="list-style-type: none"> <li>1. The fish tape is bent, blocked, or stuck inside the tube.</li> <li>2. The handle is too loose, and the rubber pulleys are not applying enough pressure on the fish tape.</li> <li>3. The rubber pulleys are worn out. No pressure on the fish tape even though the handle is tight.</li> </ol>	<ol style="list-style-type: none"> <li>1. Try pushing the fish tape back and forth to release it. Push two meters of fish tape out of the insert point. Remove the battery and carefully place the device on the floor. Manually try to feed the fish tape.</li> <li>2. Tighten the handle till you have enough thrust power. Make sure the fish tape is centered between the rubber pulleys.</li> <li>3. Replace the rubber pulleys as described in the manual or instruction video.</li> </ol>
The device is working, but it won't retract the fish tape.	<ol style="list-style-type: none"> <li>1. The fish tape is stuck inside the tube. This usually means the tube is bent or there is some kind of blockage.</li> <li>2. The handle is too loose, and the rubber pulleys are not applying enough pressure on the fish tape.</li> <li>3. The rubber pulleys are worn out. No pressure on the fish tape even though the handle is tight.</li> </ol>	<ol style="list-style-type: none"> <li>1. Try pushing the fish tape back and forth to release it. Push two meters of fish tape out of the insert point. Remove the battery and carefully place the device on the floor. Manually try to feed the fish tape.</li> <li>2. Tighten the handle till you have enough thrust power. Make sure the fish tape is centered between the rubber pulleys.</li> <li>3. Replace the rubber pulleys as described in the manual or instruction video.</li> </ol>

<p>A protection sleeve falls out.</p>	<p>1. The protection sleeve screws are not tight enough.</p>	<p>1. Tighten the screw using the Hex key in the replacement parts kit. If it is broken, replace it with a new one, as described in the manual or instruction video.</p>
<p>The fish tape snaps.</p>	<p>1. The fish tape is worn out and needs to be replaced. 2. One of the protection sleeves is missing, causing the fish tape to chafe.</p>	<p>1. Replace the protection sleeves as described in the manual or instruction video. 2. Replace the fish tape as described in the manual or instruction video.</p>
<p>The fish tape tip falls down or snaps.</p>	<p>1. Normal wear and tear.</p>	<p>1. The fish tape has a double sided tip. Disconnect the fish tape from the drum and replace it from the other direction.</p>
<p>The fish tape comes out of the drum.</p>	<p>1. If the drum cannot spin the fish tape may come out or be damaged. Do not lean on the fish tape drum or interfere with the spinning of the drum.</p>	<p>1. Make sure the drum is loose. Push all the wire to the end, so only the tip is connected to the drum. Then pull it back, making sure nothing interferes or stops the drum from spinning.</p>
<p>The front conduit falls out.</p>	<p>1. The conduit is not properly tightened.</p>	<p>1. Screw the front conduit clockwise and tighten.</p>
<p>The charger won't charge the battery.</p>	<p>1.. The battery is not properly connected 2. The battery needs to be replaced.</p>	<p>1. When placing the battery in the charger, make sure the red charging light turns on. 2. Replace the battery.</p>

