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› [Goodway](#) /

› [Goodway GTC-702-17 Flexible Shaft Instruction Manual for Wet Tube Cleaning \(17 Feet\)](#)

## Goodway GTC-702-17

# Goodway GTC-702-17 Flexible Shaft Instruction Manual

For Wet Tube Cleaning of 7/16" - 1/2" ID Tubes (17 Feet)

[Introduction](#)

[Setup](#)

[Operation](#)

[Maintenance](#)

[Troubleshooting](#)

[Specifications](#)

[Warranty & Support](#)

## 1. INTRODUCTION

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This manual provides essential instructions for the safe and effective use of the Goodway GTC-702-17 Flexible Shaft. This 17-foot flexible shaft is designed for wet tube cleaning applications in industrial settings, including factories, power plants, and HVAC systems. It is compatible with tubes having an internal diameter (ID) ranging from 7/16" to 1/2". Please read this manual thoroughly before operating the equipment.



Figure 1: Goodway GTC-702-17 Flexible Shaft

## 2. SETUP

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Proper setup ensures optimal performance and safety. Follow these steps before commencing cleaning operations:

1. **Inspect the Shaft:** Before each use, visually inspect the entire length of the flexible shaft, including the nylon casing and threaded coupling, for any signs of damage, wear, or kinks. Do not use a damaged shaft.
2. **Prepare the Cleaning System:** Ensure your wet tube cleaning system, including the drive unit and water supply, is ready and in good working order.
3. **Attach Cleaning Brush/Tool:** Securely attach the appropriate cleaning brush or tool to the threaded coupling at the end of the flexible shaft. Ensure it is tightened properly to prevent detachment during operation. The shaft is designed for standard threaded fittings.
4. **Connect to Drive Unit:** Connect the other end of the flexible shaft to your compatible Goodway drive unit. Refer to your drive unit's manual for specific connection instructions.
5. **Water Supply:** Verify that the water supply for wet cleaning is connected and functioning correctly. The GTC-702-17 is specifically designed for wet cleaning applications.

### 3. OPERATION

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Operating the GTC-702-17 Flexible Shaft requires attention to detail to achieve effective cleaning and prolong equipment life.

1. **Safety Precautions:** Always wear appropriate personal protective equipment (PPE), including eye protection, gloves, and hearing protection, during operation. Ensure the work area is clear and safe.
2. **Start Water Flow:** Before inserting the shaft into the tube, initiate the water flow through the system. This ensures proper lubrication and flushing of debris.
3. **Insert Shaft:** Carefully insert the cleaning brush and the flexible shaft into the tube to be cleaned. Avoid forcing the shaft.
4. **Engage Drive Unit:** Once the brush is inside the tube, engage the drive unit at a low speed. Gradually increase the speed as needed for effective cleaning.
5. **Clean Tubes:** Slowly feed the flexible shaft through the tube, allowing the rotating brush and water to remove deposits. Maintain a steady pace. The shaft is suitable for tubes with 7/16" to 1/2" ID.
6. **Withdraw Shaft:** After cleaning, slowly withdraw the shaft from the tube while the drive unit is still running and water is flowing. This helps to flush out any remaining debris.
7. **Shut Down:** Once the shaft is fully withdrawn, disengage the drive unit and turn off the water supply.

### 4. MAINTENANCE

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Regular maintenance extends the lifespan and ensures the reliability of your flexible shaft.

- **Cleaning After Use:** After each use, thoroughly rinse the flexible shaft with clean water to remove any residue or debris. This shaft is designed to be residue-free with proper cleaning.
- **Inspect for Wear:** Regularly inspect the abrasion-resistant nylon casing for cuts, abrasions, or other damage. Check the threaded coupling for wear or deformation.
- **Storage:** Store the flexible shaft coiled loosely in a clean, dry place, away from direct sunlight and extreme temperatures. Avoid sharp bends or kinks during storage, which can damage the galvanized steel core and nylon casing.
- **Strain Relief:** The unique strain relief system helps reduce unwanted breakage. Ensure this system is intact and not compromised.
- **Core Integrity:** The galvanized steel core provides unmatched performance. If you suspect any damage to the

core, discontinue use and contact Goodway Technologies for inspection or replacement.

## 5. TROUBLESHOOTING

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This section addresses common issues that may arise during the use of the GTC-702-17 Flexible Shaft.

Problem	Possible Cause	Solution
Shaft not rotating	Drive unit not engaged; shaft disconnected from drive unit; internal core damage.	Ensure drive unit is properly engaged. Check connection to drive unit. Inspect shaft for kinks or damage; if damaged, replace.
Poor cleaning performance	Incorrect brush size; insufficient water flow; excessive speed; heavy deposits.	Verify brush matches tube ID (7/16" - 1/2"). Check water supply. Adjust drive unit speed. Multiple passes may be required for heavy deposits.
Shaft difficult to insert/withdraw	Tube blockage; shaft kinked; insufficient water lubrication.	Check for tube blockages. Inspect shaft for kinks. Ensure adequate water flow. Do not force the shaft.
Water leakage from coupling	Loose coupling; damaged O-ring/seal.	Tighten threaded coupling. Inspect and replace O-rings or seals if damaged.

## 6. SPECIFICATIONS

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Key technical specifications for the Goodway GTC-702-17 Flexible Shaft:

- **Model:** GTC-702-17
- **Brand:** Goodway
- **Item Length:** 17 Feet
- **Compatible Tube ID:** 7/16" - 1/2"
- **Material:** Nylon casing, Galvanized steel core
- **Color:** Blue
- **Item Weight:** Approximately 3 Pounds
- **Nominal Wall Thickness:** 0.125 inches
- **Coupling Type:** Standard Threaded Fittings
- **Specific Uses:** Industrial tube cleaning, factories, power plants, HVAC systems
- **UPC:** 790759001136
- **Manufacturer:** Goodway Technologies
- **Special Features:** Residue Free (with proper cleaning), Unique strain relief system

## 7. WARRANTY & SUPPORT

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For information regarding the warranty of your Goodway GTC-702-17 Flexible Shaft, please refer to the warranty documentation provided at the time of purchase or visit the official Goodway Technologies website. For technical support, spare parts, or service inquiries, please contact Goodway Technologies directly through their official channels.

### Goodway Technologies Contact Information:

Please visit [www.goodway.com](http://www.goodway.com) for the most current contact details and support resources.

