

## Instructions for Use: Tube Brushes

<b>Brand Name of Product</b>	Tube Brushes
<b>Generic Name of Product</b>	Tube Brushes, Reamer Brushes, Trumpet Valve Brush
<b>Product Code Number(s)</b>	4030, 4031, 52003-35, 4032, 4033, 4034, 4042, TR350109, TR350232, TR350233, BRS-12-4, TR350354, TR350429, TR150483, TR150221, TR360231, TR160617, TR52003-21-S, 10-1660, TR03020, 52003-27, 4035, 4041, 4036, 4037, 4038, 4039, 10-1664, 10-1668, ICB-007-1, ICB-007-50, ICB-008-1, ICB-008-50, ICB-009-1, ICB-009-50, ICB-013-1, ICB-013-50, ICB-010-1, ICB-010-50, ICB-011-1, ICB-011-50, ICB-012-1, ICB-012-50, ICB-014-1, ICB-014-50, ICB-001-1, ICB-001-50, ICB-002-1, ICB-002-50, ICB-003-1, ICB-003-50, ICB-004-1, ICB-004-50, ICB-005-1, ICB-005-50, ICB-006-1, ICB-006-50, 86-0340-1206, 86-1234-0006, 86-0516-1212, 86-00004-0009, 86-02120-1234, RB300105, RB310306, RB310307, BRS-TV, 130-38, BRK-SHVR. 3770-50, 3770, 00711610.
<b>Purpose of Product</b>	To assist in cleaning of the channels and lumens of cannulated items in conjunction with a suitable cleaning solution according to the manufacturer's IFU of that specific item.
<b>Range of Applications for Product</b>	Any cannulated item for which brushing of internal channels is a recommended step in the cleaning process by the item manufacturer's IFU.
<b>Key Specifications of Product</b>	<ul style="list-style-type: none"> <li>● Reusable</li> <li>● Nylon bristles</li> <li>● Stainless-steel twisted wire</li> <li>● Variety of lengths and diameters</li> </ul>

### Shipping & Storage

<b>Shipping Conditions &amp; Requirements</b>	
<b>Storage Conditions</b>	
<b>Packaging Contents</b>	
<b>Shelf Life</b>	

### Instructions for Using Product

<b>Description of Use(s)</b>	
<b>Preparation for Use</b>	<ul style="list-style-type: none"> <li>● Cleaning any cannulated item requires the use of the proper size cleaning brush in accordance with manufacturers' IFUs.</li> <li>● It is important to match the diameter size of the brush with the channel being cleaned.</li> <li>● The Healthmark Brush Sizing Chart or similar type of tool may be used to select the proper diameter brush.</li> <li>● It is also critical to select a brush that is longer than the channel to ensure that the entire channel receives cleaning action.</li> <li>● Ensure the material composition of the brush bristles is suitable for the item to be cleaned. This should be in compliance with the manufacturer's IFU for the item.</li> <li>● Brushes should be inspected prior to each use to be certain they are not worn, frayed or damaged. If discrepancies are noted, the brush should be discarded and not used.</li> <li>● Brushes should also be inspected between uses for any residual organic soil that may cross-contaminate the next device cleaned. If there is visual soil, the brush should be cleaned in accordance with the method(s) described below.</li> </ul>
<b>Diagrams (drawings, pictures)</b>	
<b>Steps for Use of Product</b>	Consult the manufacturer's IFU for the item you are cleaning and follow the instructions closely.
<b>Interpretation of Results</b>	
<b>Contraindications of Test Results</b>	
<b>Documentation</b>	
<b>Special Warnings and Cautions</b>	<ul style="list-style-type: none"> <li>● Tube style brushes are intended for use as cleaning tools only. They are not for use in patient care or aseptic techniques.</li> <li>● Healthmark recommends that brushes are thoroughly cleaned during and between uses and disinfected at least daily, preferably between each use. See instructions for reprocessing below.</li> </ul>

<b>Disposal</b>	Because tube brushes are used to clean patient-used items, it is recommended to dispose of them in the biohazard container with other contaminated items.
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<b>Reprocessing Instructions</b>	
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<b>Point of Use</b>	
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<b>Preparation for Decontamination</b>	<ol style="list-style-type: none"> <li>1. Rinse gross contaminants from the brush in a deep sink and with a spray apparatus.</li> <li>2. Use the facility's cold-water supply for this rinsing.</li> </ol>
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<b>Disassembly Instructions</b>	
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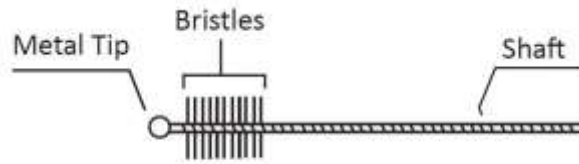
<b>Cleaning – Manual</b>	<ul style="list-style-type: none"> <li>• Brushes may be cleaned manually utilizing a high alkaline instrument detergent or an enzymatic detergent with the suitable enzymes for cleaning the types of soil the brush may come in contact with during use (i.e. protease, lipase, etc.).</li> <li>• The IFU for the cleaning agent should be followed closely to ensure sufficient exposure time is allowed for the cleaning solution to work.</li> <li>• It is recommended that agitation accompany the cleaning process to improve results. This is accomplished by swishing the brush and physically rubbing the bristle in the cleaning solution between gloved fingers.</li> </ul>
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<b>Cleaning – Automated</b>	<ul style="list-style-type: none"> <li>• Machine cleaning is recommended in a washer disinfector cleared by the FDA.</li> <li>• Products should be positioned in the washer to allow maximum water penetration and drainage.</li> <li>• No overlapping – partially covered items will not be washed properly</li> <li>• Brushes should be secured in some way, such as the use of a wire or perforated tray that has a wire or perforated lid and bottom, to prevent brushes from blowing around in the wash chamber during cleaning. A container, such as the brush cleaning tube from Healthmark, is a suitable solution.</li> <li>• Brushes can be cleaned with the facility's approved cleaning solution used in the department's washer disinfector.</li> <li>• For the final rinse, critical water is recommended.</li> <li>• The standard program should include: <ol style="list-style-type: none"> <li>1. Pre-wash with cold water (&lt;38°C) rinse for a minimum of 2 minutes.</li> <li>2. Washing cycle with alkaline or enzymatic detergent at temperature recommended by the detergent manufacturer for a minimum of 4 minutes.</li> <li>3. Washing cycle with neutral pH or neutralizing detergent at temperature recommended by the detergent manufacturer for a minimum of 2 minutes.</li> <li>4. Rinse cycle for a minimum of 1 minute with critical water.</li> <li>5. Thermal disinfection of up to 93°C in compliance with the washer manufacturer's recommendations for time and temperature.</li> <li>6. Drying cycle at a temperature not to exceed 116°C.</li> <li>7. Use caution when unloading machines as products will be hot.</li> <li>8. Visual inspection is required to ensure complete removal of soil.</li> <li>9. If the product still shows soil, repeat the program.</li> </ol> </li> </ul>
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<b>Disinfection</b>	<ul style="list-style-type: none"> <li>• The thermal disinfection stage of an automated washer is sufficient for disinfection of the cleaning brushes. Minimum temperature should be 82°C and not exceed 93°C.</li> <li>• Brushes may be disinfected with liquid chemical disinfectants in accordance with the disinfection manufacturer's IFUs. Be sure to check material compatibility information from the disinfectant manufacturer. Should be compatible with nylon and stainless steel.</li> </ul>
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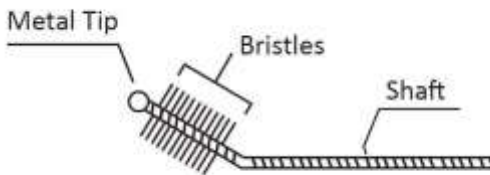
<b>Drying</b>	
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<b>Maintenance, Inspection and Testing</b>	<ul style="list-style-type: none"> <li>• Inspect for wear, fraying, damaged bristles, and the twisted wire shaft. If observed, the brush should be discarded in compliance with the disposal instructions described above.</li> <li>• Brushes should also be inspected between devices for any residual organic soil that might contaminate the next device cleaned. If there is visual soil, the brush should be cleaned in accordance with the method(s) described above.</li> <li>• If bristles are missing in spots/locations from the original position, do not use. Another method of inspecting a brush is to compare the used brush to a non-used (new brush) and if they are different (bent shaft, missing bristles, etc.) do not use the brush and get a new brush to continue the cleaning process.</li> <li>• Examples of normal brush and brush damage:</li> </ul>
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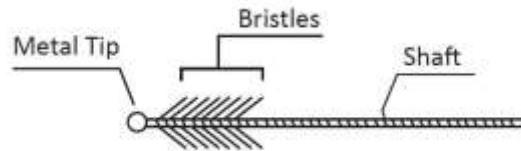
**Normal Brush**

Damaged brushes should not be used if your brush looks like the examples below, when compared to a new brush.



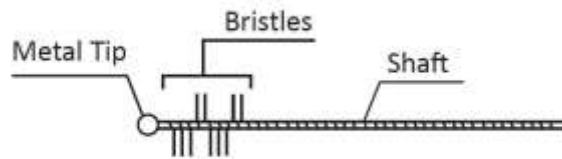
**Damage to the shaft**

If the shaft is bent in any way from the original position, do not use.



**Fallen bristles**

If bristles are fallen and not upright compared to the original position, do not use.



**Loose or missing bristles**

If bristles are missing in spots/location from the original position, do not use.

<b>Reassembly Instructions</b>	
<b>Packaging</b>	
<b>Sterilization</b>	<ul style="list-style-type: none"> <li>• Recommended US cycles for steam sterilization: 132°C for 4 minutes, 135°C for 3 minutes.</li> <li>• Maximum temperature and time: 135°C for 30 minutes.</li> </ul>
<b>Storage</b>	
<b>Additional Information</b>	Follow all manufacturers' directions for proper usage and disposal of all cleaning agents and chemical disinfectant agents.

<b>Related Healthmark Products</b>	Brush Cleaning Tools
<b>Other Product Support Documents</b>	ProSys™ Brochure, ProSys™ Price List
<b>Reference Documents</b>	
<b>Customer Service Contact</b>	Healthmark Industries Company, Inc. 18600 Malyn Blvd. Fraser, MI 48026 1-586-774-7600 <a href="mailto:healthmark@hmark.com">healthmark@hmark.com</a>

