



Instruction for use

Disposable Endoscope Cleaning Brushes



Educational recommendation:
Please read this IFU carefully before the first application of the product and keep it safe for later consultations.

1.0 General information:

Manufacturer:

Key Surgical GmbH
Zum Windpark 1
23738 Lensahn
phone: + 49 4363 905900
telefax: + 49 4363 90590590

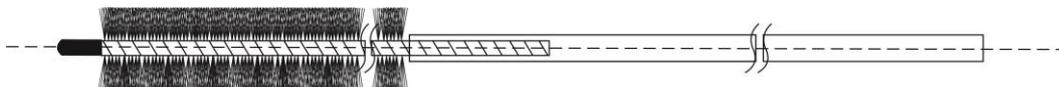
2.0 Intended use / product description

For cleaning all accessible endoscope / biopsy channels and biopsy valves.

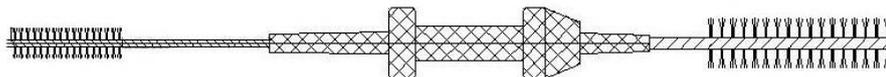
The disposable endoscope cleaning brushes are constructed as follows:



The cleaning brush with pipe cleaner is constructed as follows:



The Valve cleaning brush is constructed as follows:



3.0 Measurements of the disposable endoscope cleaning brushes

Model	DM Tube (mm)	Length (mm)	DM Brush (mm)	DM Working channel (mm)	Brush style
26022	1.8	2300	3	≥ 2.0	straight
26020	1.8	2300	5	≥ 2.8	straight
26021	1.8	2300	6	≥ 2.8	straight
26024	1.2	2300	2.5	≥ 1.4	straight
26025	1.8	2300	3-5 / 4-6	≥ 2.8	conical
26026	1.8	2650	5	≥ 2.8	straight
26027	1.65 / 1.85	156	5.2 / 11	valves	straight
26028	1.8	2300	5.5 / 10	≥ 2.8 / valves	straight

26090	1.0	2300	2.5	≥ 1.2	straight
26305	1.8	2300	3	≥ 2.0	straight
26482	1.8	3600	6	≥ 2.8	straight
09352	1.0	1000	2	≥ 1.2	straight
09353	1.6	1000	3	≥ 2.0	straight
09356	1.8	2570	6.5	≥ 2.8	straight
	1.65 / 1.85	150	4.5 / 10	valves	straight

4.0 Composition / Product specification

- The brush tubes are smooth, without unevenness.
- The nylon bristles are soft, clear, bright, clean and without obvious impurities, debris or sharp bends.
- The pipe cleaner is soft, white, bright, clean and without obvious impurities or debris.

4.1 Tensile strength:

- The single nylon bristles can withstand a tensile strength of at least 0,1kg (die bristles do not fall out and do not break).
- The shrink connection between brush head and brush tube can withstand a tensile strength of at least 5 kg (the brush head will not fall off).

4.2 Corrosion resistance:

The used raw materials have a high corrosion resistance (Stainless steel).

5.0 Materials

The following raw materials are used for the disposable endoscope cleaning brushes:

Nr.	Brush component	Material description	Standard Nr.
1	Bristles	PA6	GB16331-1996
2	Wire	06Cr19Ni10	GB18457-2001
3	Tube	POM	GB/T 22271-2008
4	Pipe cleaner	PA6	GB16331-1996

6.0 Advices before first application

1. Examine the packaging for any possibility of damage and the brushes for usability.
2. Examine the brushes for damages, contaminations etc. Do not use the brushes in case of irregularities.

7.0 Handling and Operation

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 Telefon +49 4363 9059000, Fax +49 4363 90590590, Email info@interlockmed.com, Homepage www.interlockmed.com

7.1 Channel cleaning brush:

a) Always use suitable cleaning brushes according to the manufacturer's instruction of your scope. Insert the nylon cleaning brush into the endoscope channel. Always hold the brush close to the channel inlet when advancing it through the endoscope. Holding the brush too far away from the channel inlet may cause bending of the brush or the tube. Always advance the brush through the entire length of the endoscope. Reversing direction inside the endoscope could cause the brush to expand, which could potentially damage the endoscope channel.

b) Using the cleaning solution of choice, pass the channel cleaning brush through the valve stem openings.

7.2 Valve cleaning brush:

a) Clean valve cylinder, valves, connector plug, distal end cap and all other detachable components with the cleaning brush. Avoid twisting or torque of the brush handle and the wire. The brush handle will prevent the brush from being pushed too deeply in the valve openings.

7.3 Pipe cleaning brush:

a) Always use suitable cleaning brushes according to the manufacturer's instruction of your scope. Please note: Always insert the nylon cleaning brush at first into the endoscope channel and hold the brush close to the channel inlet when advancing it through the endoscope. Holding the brush too far away from the channel inlet may cause bending of the brush or the tube. Always advance the brush through the entire length of the endoscope pulling the pipe cleaner through the distal end. Do not reverse direction inside the endoscope which could expand the brush or bend the pipe cleaner and cause potential damages to the endoscope channel.

b) Using a validated cleaning solution, pass the channel cleaning brush through the valve stem openings.

8.0 Hazard note



1. Do not use the disposable endoscope cleaning brushes as cytology brushes.
2. Consult and follow closely the IFU from the endoscope manufacturer and the cleaning agent manufacturer before using the brushes.
3. The endoscope cleaning brushes are for single use only. Dispose the brushes after the use, as the mechanic tensile strength of the bristles can not be guaranteed in case of multiple applications. We do not take any responsibilities for the safety and usability of the product if the brushes are reprocessed or sterilized by users or third parties.
4. Dispose the brushes if you should notice sharp edges or bends on tube or wire to avoid damages on the endoscope.
5. Do not use the same brush for different endoscopes to avoid cross-contaminations and possible complications. The brushes are used to gently loosen debris which can adhere and remain on the bristle structure.
6. Brushes are intended for single use. We assume no responsibility for the safety and functionality of this single-use product in the event of multiple use, processing or sterilisation by users and third parties.
7. Do not force a brush into a channel if it is clogged or a resistance is perceived to avoid possible damage to the endoscope. Check the brush for completeness after removal.

8. Insure that the size of brush chosen is the correct size for the target endoscope according to the manufacturer's instruction. Select appropriate brush size to clean the endoscope.
9. Straigten the channel of the washing endoscope hose to avoid distortion.

9.0 Packaging and storage

Single packaging in PE pouch. 50 pouches in protective carton. Store cool and dry . Do not expose the product to direct or indirect sunlight or other ultra-violet rays!

10.0 Explanation of used symbols



Keep away from sunlight



Store dry



Attention (reference to warning notices / preventive measures in the IFU)



Attend to the information for use



Manufacturer



Single-use



Non-sterile