

# Disposable Cleaning Brushes

## 1. STANDARD SET LIST

This package includes the following items:

- Heyinovo Disposable Cleaning Brushes
- Instructions for Use

### NOTE:

- Read this manual before operating.
- Failure to follow the instructions in this manual may result in damage to, and/or malfunction of, this equipment.
- It is the responsibility of each medical facility to ensure that only well-educated and appropriately trained personnel, who are competent and knowledgeable about endoscopic equipment, antimicrobial agents/processes, and hospital infection control protocol be involved in the use of these medical devices.

## 2. INTENDED USE

This device is intended to be used to remove dirt or debris from the working channels and irregular surface of the endoscope prior to disinfection and sterilization.

### CAUTION:

Never use this device for any purpose other than that for which it has been designed. Since endoscopic accessories are designed to be used in conjunction with other medical devices, the effectiveness of an accessory is dependent upon a number of factors, including the condition of the endoscope.

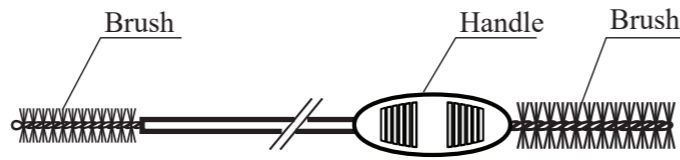
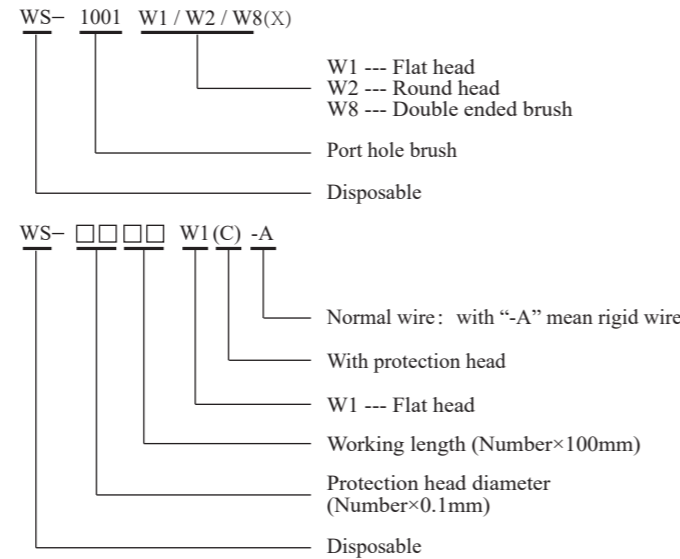
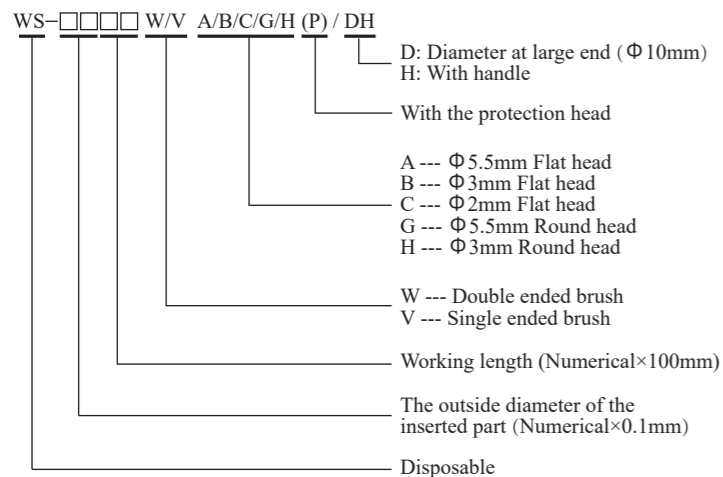
### WARNING:

Never reuse, reprocess. Reuse, reprocessing may lead to contamination of the endoscope. Contamination of the endoscope may lead to injury and/or illness of the patient.

## 3. CONTRAINDICATIONS

Do not use these devices for any purpose other than that for which they are intended.

## 4. NOMENCLATURE



## 5. PREPARATION AND INSPECTION BEFORE USE

### CAUTION:

Wear sterile surgical gloves when performing the pre-use inspection.

- 1) Select an appropriate device to satisfy the technical characteristics as well as the intended application of the endoscopic accessory.

Disposable Cleaning Brushes Application Table  
See Attached

### CAUTION:

- Use of this device with an incompatible endoscope can result in endoscope and/or accessory damage/failure.
- Do not fold the tubing close to the brush or handle with hard pressure before use.
- Please do not fold the tube with big strength.

- 2) Remove the device from the packaging.
- 3) With the gloves on, check the surface of the brush and the insertion portion for any sign of the brush loss, crushed surfaces, excessive bends, broken areas, or other damages.

### CAUTION:

As a precaution, always have an extra device available for use in the event that the original device becomes inoperable. If a spare device is used, the above preparation and inspection steps should be followed.

## 6. OPERATION

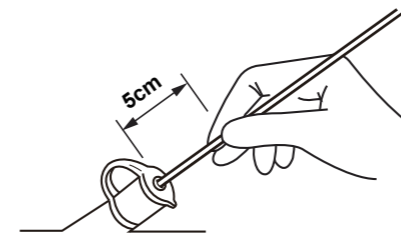
### WARNING:

- The user must carefully read and follow all instructions in the operating manuals supplied with all related equipment. Technical criteria, clinical applications, and accompanying risks must be well understood before using this device.
- The user should wear personal protective equipment such as gloves, gowns, face masks, goggles, etc. to minimize the risk of cross contamination.
- To avoid damaging the device when inserting or withdrawing it through the instrument channel inlet of an endoscope, keep the endoscope in a straight position and slowly insert, advance, or withdraw the device. Never apply excessive force. Do NOT twist, rotate, or bend any of the rubber strain reliefs of an endoscope, as these areas are particularly susceptible to damage.

- 1) Insert the device through the slit in the rubber inlet seal with the endoscope in a straight position.

### NOTE:

- When the distal end of the device is first passed through the inlet seal, temporary resistance will be encountered. Overcome this resistance by holding the tube tightly at about 5cm from the distal end and pushing it past the area of resistance.
- Please change a new one if the cleaning brush is blocked during cleaning process.



### CAUTION:

Never apply excessive pressure when introducing any device, since the instrument channel or the device may be damaged.

- 2) In order to facilitate cleaning the working channels and port hole, push and pull the cleaning brush. The cleaning will have more effect when the digestive enzymes and other cleaning agents are added.
- 3) After having completed the cleaning, withdraw the brush from the endoscope slowly.

### WARNING:

Never withdraw the device quickly. This can result in endoscope and/or accessory damage.

## 7. CARE AFTER USE

### WARNING:

This device is for single use. Never reuse the device. For disposal, follow the applicable protocol at your medical facility, as well as local or national regulations.

	Operation Environment	Storage Environment
Ambient temperature	10 C ~ 40 C	-40 C ~ 70 C
Relative humidity	30% ~ 85%	10% ~ 95%
Atmospheric pressure	700hPa ~ 1060hPa (0.7atm ~ 1.05atm)	700hPa ~ 1060hPa (0.7atm ~ 1.05atm)

### WARNING:

Store the packaged device in a clean and dry place. Avoid storage areas with high humidity, high temperature, and exposure to direct sunlight.



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USA  
Federal (USA) law restricts this device to sale by or on the order of a physician or other appropriately licensed medical professional.

Attached:

Disposable Cleaning Brushes Application Table \*

Table (1)

Disposable Double Ended Cleaning Brushes				
Product Type	No.	Item No.	Brush Diameter & Working Length (mm)	Working Channel Diameter (mm)
	1	WS-1811WA	Φ5.5×1100	2.8~4.2
	2	WS-1818WA	Φ5.5×1800	2.8~4.2
	3	WS-1822WA	Φ5.5×2200	2.8~4.2
	4	WS-1823WA	Φ5.5×2300	2.8~4.2
	5	WS-1510WB	Φ3.0×1000	2.0~2.2
	6	WS-1523WB	Φ3.0×2300	2.0~2.2
	7	WS-0910WC	Φ2.0×1000	1.2~1.6
	8	WS-0923WC	Φ2.0×2300	1.2~1.6
	9	WS-1523WG	Φ5.5×2300	2.0~4.2
	10	WS-1810WG	Φ5.5×1000	2.8~4.2
	11	WS-1818WG	Φ5.5×1800	2.8~4.2
	12	WS-1823WG	Φ5.5×2300	2.8~4.2
	13	WS-1510WH	Φ3.0×1000	2.0~2.2
	14	WS-1523WH	Φ3.0×2300	2.0~2.2
	15	WS-1818WA(P)	Φ5.5×1800	2.8~4.2
	16	WS-1822WA(P)	Φ5.5×2200	2.8~4.2
	17	WS-1823WA(P)	Φ5.5×2300	2.8~4.2
	18	WS-1510WB(P)	Φ3.0×1000	2.0~2.2
	19	WS-1518WB(P)	Φ3.0×1800	2.0~2.2
	20	WS-1523WB(P)	Φ3.0×2300	2.0~2.2
	21	WS-0910WC(P)	Φ2.0×1000	1.2~1.6
	22	WS-0923WC(P)	Φ2.0×2300	1.2~1.6
	23	WS-1823WG/D	Φ5.5/10×2300	2.8~4.2
	24	WS-1523WA(P)/D	Φ5.5/10×2300	2.0~4.2
	25	WS-1823WA(P)/D	Φ5.5/10×2300	2.8~4.2
	26	WS-1523WA(P)/DH	Φ5.5/10×2300	2.0~4.2

Disposable Single Ended Cleaning Brushes




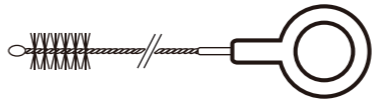
Product Type	No.	Item No.	Brush Diameter & Working Length (mm)	Working Channel Diameter (mm)	
	27	WS-1523VA	Φ5.5×2300	2.0~4.2	
	28	WS-1818VA	Φ5.5×1800	2.8~4.2	
	29	WS-1823VA	Φ5.5×2300	2.8~4.2	
	30	WS-1510VB	Φ3.0×1000	2.0~2.2	
	31	WS-1523VB	Φ3.0×2300	2.0~2.2	
	32	WS-0910VC	Φ2.0×1000	1.2~1.6	
	33	WS-0918VC	Φ2.0×1800	1.2~1.6	
	34	WS-0923VC	Φ2.0×2300	1.2~1.6	
		35	WS-1803VG	Φ5.5×300	2.8~4.2
		36	WS-1818VG	Φ5.5×1800	2.8~4.2
37		WS-1822VG	Φ5.5×2200	2.8~4.2	
38		WS-1823VG	Φ5.5×2300	2.8~4.2	
39		WS-1510VH	Φ3.0×1000	2.0~2.2	
40		WS-1523VH	Φ3.0×2300	2.0~2.2	
		41	WS-1818VA(P)	Φ5.5×1800	2.8~4.2
	42	WS-1823VA(P)	Φ5.5×2300	2.8~4.2	
	43	WS-1826VA(P)	Φ5.5×2600	2.8~4.2	
	44	WS-1510VB(P)	Φ3.0×1000	2.0~2.2	
	45	WS-1523VB(P)	Φ3.0×2300	2.0~2.2	
	46	WS-0910VC(P)	Φ2.0×1000	1.2~1.6	
	47	WS-0918VC(P)	Φ2.0×1800	1.2~1.6	
	48	WS-0923VC(P)	Φ2.0×2300	1.2~1.6	
	49	WS-0937VC(P)	Φ2.0×3700	1.2~1.6	
		50	WS-0909W1(C)	Φ2.4×950	1.0~1.5
51		WS-0912W1(C)	Φ2.4×1200	1.0~1.5	
52		WS-0916W1(C)	Φ2.4×1650	1.0~1.5	
53		WS-0909W1(C)-A	Φ2.4×950	1.0~1.5	
54		WS-0912W1(C)-A	Φ2.4×1200	1.0~1.5	
55		WS-0916W1(C)-A	Φ2.4×1650	1.0~1.5	

Table (3)





Disposable Port Hole Cleaning Brushes			
Product Type	No.	Item No.	Brush Diameter & Working Length (mm)
	56	WS-1001W1	Φ10.0×60
	57	WS-1001W2	Φ10.0×60
	58	WS-1001W8	Φ5.5/10.0×40/60
	59	WS-1001W8(a)	Φ3.0/10.0×40/55

Table (4)

Disposable Cleaning Brushes Kits		
No.	Item No.	Kit List
1	Kits-A	WS-1823WG, WS-1001W1, TOOTHBRUSH
2	Kits-B	WS-1823VA(P), WS-1001W1
3	Kits-C	WS-1823WA(P), WS-1001W1
4	Kits-D	WS-1823WA(P), WS-1001W8
5	Kits-E	WS-1823WG, WS-1001W1
6	Kits-H	WS-0910VC(P), WS-1001W1, WS-1803VG, TOOTHBRUSH
7	Kits-I	WS-1510VH, WS-1001W1, WS-1803VG, TOOTHBRUSH
8	Kits-J	WS-1510WB(P), WS-1001W1
9	Kits-K	WS-1823WA(P), WS-1001W1, WS-0923WC(P)
10	Kits-L	WS-1823VA(P), WS-1001W1, WS-0923VC(P)
11	Kits-M	WS-1823VA(P), WS-1001W1, WS-0937VC(P)
12	Kits-N	WS-1823VA(P), WS-1001W8
13	Kits-O	WS-0923VC(P), WS-1001W1
14	Kits-P	WS-1823WA(P), WS-1001W8, TOOTHBRUSH

\* The above product specifications are only partial, just for reference.