

Disposable Papillotome and Needle Electrode

1. STANDARD SET LIST

This package includes the following items:

- Heyinovo Disposable Papillotome and Needle Electrode
- Instructions for Use

NOTE:

- Read this manual before operating.
- Failure to read and thoroughly understand the information presented in this manual, as well as those developed for other endoscopic equipment, may result in serious injury to the patient and/or user. Furthermore, 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.
- Known risks and/or potential injuries associated with flexible endoscope procedures include, but are not limited to, the following: Bleeding, stone incarceration, pancreatitis, cholangitis, septicemia, perforation, and infection.

2. INTENDED USE

This device is intended to be used with a flexible endoscope for the incision in the digestive tract.

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 and electro-surgical generator.

WARNING:

- This device has been ETO sterilized for single patient use. Never reuse, reprocess, or re-sterilize. Reuse, reprocessing, or re-sterilization may lead to device failure, patient injury, and/or illness. Reuse, reprocessing, or re-sterilization may also create a risk of contamination of the device and/or cause patient infection or cross-infection. Contamination of the device may lead to injury and/or illness of the patient.
- Never attempt to repair or modify this device. The use of a repaired or modified device may result in patient injury.

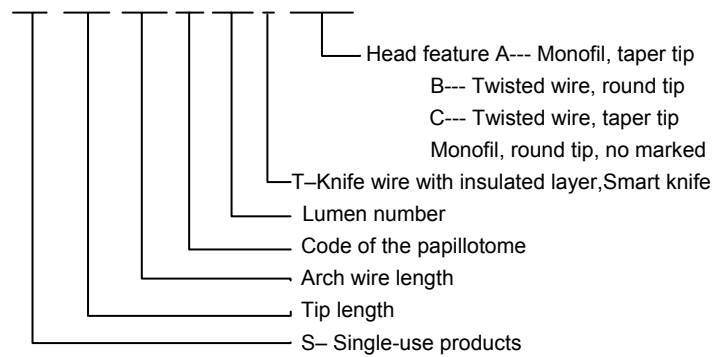
3. CONTRAINDICATIONS

Do not use the device onto patients who are implanted with cardiac pacemakers. Any contraindications for Endoscopic Retrograde Cholangiopancreatography (ERCP) should be also applied to this device.

4. NOMENCLATURE

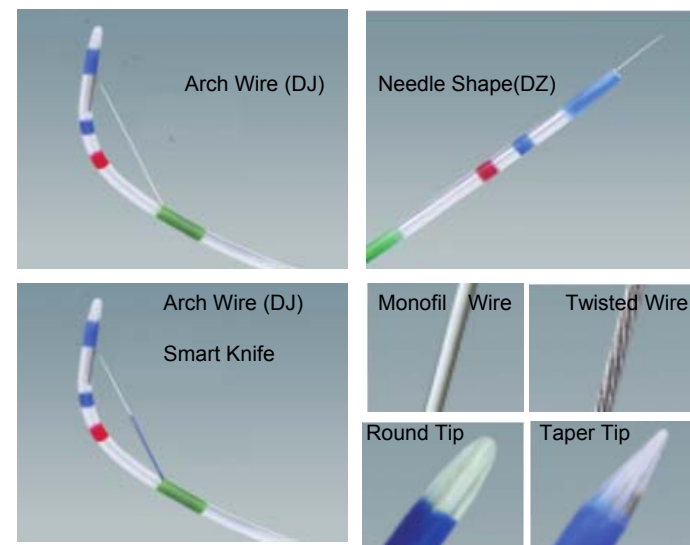
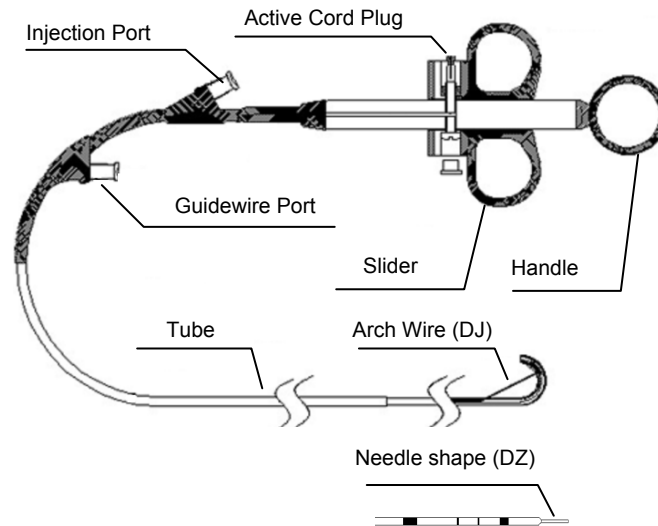
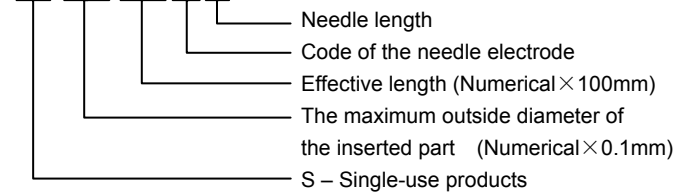
Papillotome DJ

WS - □□ □□ DJ 1/2/3 T - A/B/C

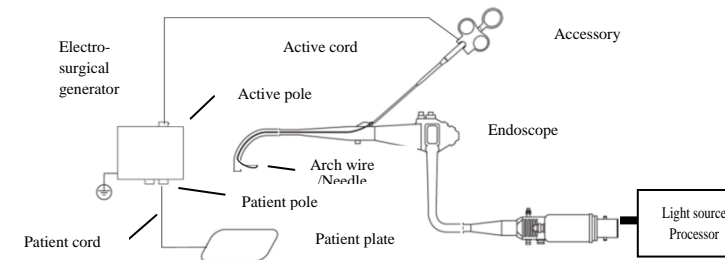


Needle shape DZ

WS - □□ □□ DZ □



5. SYSTEM CONFIGURATION



WARNING:

To avoid burns to the patient and user, use only a floating type electro-surgical generator. Do not use non-floating (B type) electro-surgical systems.

Use of the correct active cord is required to connect different brands of electro-surgical generators (such as: ERBE® brand generator) to this device. For details, please consult the electro-surgical generator manufacturer.

6. PREPARATION AND INSPECTION BEFORE USE

CAUTION:

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

- 1) Prior to use, the endoscope with which this device will be used must be carefully and thoroughly inspected for cleanliness and proper function to determine that it is appropriate for patient use. Please refer to the manual supplied with the endoscope.
- 2) Select an appropriate device to satisfy the technical characteristics as well as the intended application of the endoscopic accessory.

Disposable Papillotome and Needle Electrode
 See attached.

*There is no guarantee that instruments selected solely using this minimum instrument channel width will be compatible in combination.

- These accessories comply with IEC60601-1, IEC60601-2-2, IEC60601-2-18.
- Degree of protection against electric shock: type BF
- Ingress Protection Rating/Waterproof Rating: IPX0

CAUTION:

Use of this device with an incompatible endoscope can result in endoscope and/or accessory damage/failure.

- 3) Check the expiration date printed on the package/label and confirm that the product has not expired. Make sure that there are no signs of abnormalities such as stains, wetness, tears, or any other indications that the packaging has previously been opened or compromised.

WARNING:

Do not use this device if it is expired or if the sterilization package is opened damaged, or displays any normalities. In such cases, sterility can't be guaranteed, and clinical use of the device can result in patient infection or allergic reaction.

- 4) Remove the device from the packaging.
- 5) Open the device and confirm that there are no loose and kinked wires.

- 6) Gently run your gloved fingertips over the entire length of the insertion portion to check for any crushed areas, excessive bends, broken areas, or other damage.

WARNING:

If the abnormal conditions of the insertion portion are noticed, do not use the device as it may cause the damage of the mucosal or burn of the non-target tissue of the patient. It may also cause the damage and burn of the user.

- 7) While the insertion portion is maintained in a 20-30 cm loop, move the handle several times to open and close the device to confirm that it has no disconnected or loose parts.

CAUTION:

Avoid tight coiling or bending of the insertion portion into a diameter less than 15cm. Doing so can damage the insertion portion of the device.

- 8) Expose and inspect the device to make sure that it maintains its proper shape.
- 9) Using a 10mL syringe, inject sterile water into injection port and ensure that it flows smoothly. Make sure that the sterile water is not discharged from any areas other than the distal end of the device. Flush air to force residual water out of the tube.
- 10) This device should be slowly inserted through the channel inlet with the endoscope in a straight position. There should be no resistance encountered. If resistance is encountered, do not attempt to advance the device further, as the endoscope channel may be damaged. Remove the endoscope from service for inspection and repair.
- 11) After the device exits the distal tip of the endoscope, connect the device and electro-surgical generator.
- 12) Connect the active cord securely to the active cord plug of the device. Confirm that it has been clicked into the place and is seated. Avoid leaving any metal parts of the active cord and active cord plug exposed. Insert the other end of the active cord into generator. Always operate the device in compliance with the generator manufacturer's instructions so as to avoid injury to operators and/or patients.
- 13) Ensure that related equipment functions properly (according to the operating manuals supplied with each device).
- 14) Turn off the electro-surgical generator.
- 15) Withdraw the device with its head fully retracted.

CAUTION:

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

WARNING:

Do not use a device that shows any signs of damage or operational difficulty. Any malfunction of the device during a patient procedure can result in serious injury to the patient.

7. OPERATION

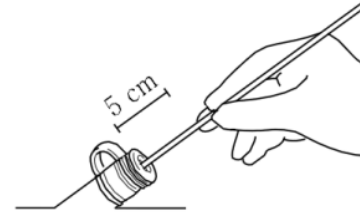
⚠ WARNING:

- The user must carefully read and follow all instructions in the operating manuals supplied with all related equipment. The equipment should be carefully and thoroughly inspected to determine that it is appropriate for patient use.
- Never use this device in the presence of a high concentration of oxygen, flammable explosive gases, or chemicals.
- To avoid burns to the patient and user, use only a floating type electro-surgical generator. Do not use a non-floating (B type) electro-surgical generator.
- Technical criteria, clinical applications, and accompanying risks must be well understood before using this device.
- Physicians and assistants should wear personal protective equipment such as gloves, gowns, face masks, goggles, etc. to minimize the risk of cross contamination.
- A rubber eye-shield should be placed on the eyepiece of a fibroscope to avoid burns.
- When an electro-surgical generator and physiological monitoring equipment are used simultaneously on the same patient, any monitoring electrodes should be placed as far as possible from the arch wire / needle. Needle monitoring electrodes are not recommended. In all cases, monitoring systems incorporating high-frequency current limiting devices are recommended.
- Do not use the device on patients who have implanted cardiac pacemakers. High-frequency signals or spark discharge may cause ventricular fibrillation or damage electronic components of pacemakers.
- 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.
- The device must be used in compliance with technical guidelines for ERCP.

- Slowly insert the endoscope under direct vision.
- When an endoscope equipped with a device elevator is used, raise the elevator mechanism.
- The device should already be appropriately connected with an active cord to a suitable electro-surgical generator.
- A patient plate should already be appropriately positioned under the patient.
- Insert the device through the slit in the rubber inlet seal with the endoscope in a straight position. Be certain to hold the slider in such a way to ensure that the device is in a closed position during insertion.

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.
- During insertion, if the device becomes difficult to advance, decrease the deflection of the bending section to a level suitable for smooth insertion, and insert the device again. Alternately, withdraw the device, and then attempt to insert it again.



⚠ CAUTION:

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

- When an endoscope with a device elevator is used (such as a duodenoscope), the previously raised elevator mechanism will stop advancement of the device before it exists the distal tip of the endoscope. Once the device reaches the elevator, the mechanism should be lowered to allow the device to advance approximately 1cm. The elevator may then be maneuvered as needed to bring the device into view and to aid in the application of the device.
- When the device becomes visible in the viewing field, always slowly and carefully advance it onto the target area.

⚠ CAUTION:

Always maintain a view of the device during its advancement beyond the endoscope tip.

- Expose the head and turn on the electro-surgical generator to incise the tissue.

	Cutting mode	Coagulation mode
Maximum Rated Voltage	1600Vp (3200Vp-p)	2900VP (5800Vp-p)

⚠ WARNING:

To avoid patient and user burn, follow the instructions below before electro-surgical-energy is delivered.

- The position of the target area, the tube and arch wire/needle of the device should be visible.
- The arch wire / needle of the device should not touch the metallic distal portion of the endoscope or via fluids.
- Physicians and assisting personnel should avoid contact with the patient while high frequency energy is delivered.
- Electro-surgical energy should be delivered for as short a time period as necessary to accomplish the desired clinical effect.
- According to the medical literature, the typical power shall be set at 40~50W. If you are not aware of the proper setting for the generator, set the device below the recommended power range, and increase the power carefully until you get the desired effect.
- Peak voltages exceeding those identified in the chart above should never be applied during electro-surgical procedures with the equipment.
- When repeating delivery of electro-surgical energy, ensure that coagulated tissue and/or blood is not attached to the arch wire / needle to avoid conductivity failure.
- Select a high frequency output power setting suitable for the particular intended procedure in order to avoid thermal invasion of the tissue, or insufficient coagulation, each of which can result in excessive bleeding.
- Use with adequate ventilation. Surgical smoke might be generated during electro-surgical procedures.
- Do not use a patient return electrode in surgery that utilizes a bipolar electrode endoscopic accessory.

- The injection port is located at the proximal handle. If necessary, use a 10mL syringe attached to this port to inject contrast medium through the tube.
- After the procedure has been completed, turn off the electro-surgical generator before unplugging the active cord from this device.
- Slowly withdraw the device with it in a closed position and the elevator mechanism lowered.

⚠ WARNING:

Do Not turn off the electro-surgical generator while the active portion touches the target area. The active portion may stick to the target area and separation from the target area may damage the tissue.

8. CARE AFTER USE

⚠ WARNING:

This device is for single patient use. Never reuse or resterilize 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.

Heyinovo

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EC REP

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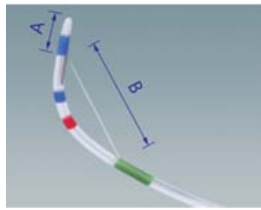
CE 0197

Manufacturer	Date of manufacture	EU authorized rep	Batch code	Catalogue number
Do not resterilize	Sterilized using ethylene oxide	Do not reuse	Use by	Do not use if damaged
Warning	Caution	Consult instructions for use	Keep away from sunlight	Keep dry
Type BF applied part				

USA

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

Papillotome DJ



Product:

- Working Length: 2100 mm ,
- Insertion Portion Width: Φ 2.5 mm ,
- Guide Wire Diameter: 0.035inch .

Compatible Endoscope:

- Min. Insetion Channel Width : Φ 2.8 mm ,
- Working Length: 1600 mm or less

Model	A(mm)	B (mm)	Lumen Number	Tip Shape	Wire Type	Smart Knife Y/N
WS-0020DJ1	0	20	1	Round	Monofil	N
WS-0025DJ1	0	25	1	Round	Monofil	N
WS-0030DJ1	0	30	1	Round	Monofil	N
WS-0020DJ1-B	0	20	1	Round	Twisted	N
WS-0025DJ1-B	0	25	1	Round	Twisted	N
WS-0030DJ1-B	0	30	1	Round	Twisted	N
WS-0020DJ1T	0	20	1	Round	Monofil	Y
WS-0025DJ1T	0	25	1	Round	Monofil	Y
WS-0030DJ1T	0	30	1	Round	Monofil	Y
WS-0020DJ1T-B	0	20	1	Round	Twisted	Y
WS-0025DJ1T-B	0	25	1	Round	Twisted	Y
WS-0030DJ1T-B	0	30	1	Round	Twisted	Y
WS-0320DJ2	3	20	2	Round	Monofil	N
WS-0325DJ2	3	25	2	Round	Monofil	N
WS-0330DJ2	3	30	2	Round	Monofil	N
WS-0720DJ2	7	20	2	Round	Monofil	N
WS-0725DJ2	7	25	2	Round	Monofil	N
WS-0730DJ2	7	30	2	Round	Monofil	N
WS-1520DJ2	15	20	2	Round	Monofil	N
WS-1525DJ2	15	25	2	Round	Monofil	N
WS-1530DJ2	15	30	2	Round	Monofil	N
WS-2520DJ2	25	20	2	Round	Monofil	N
WS-2525DJ2	25	25	2	Round	Monofil	N
WS-2530DJ2	25	30	2	Round	Monofil	N
WS-0320DJ2-A	3	20	2	Tapering	Monofil	N
WS-0325DJ2-A	3	25	2	Tapering	Monofil	N
WS-0330DJ2-A	3	30	2	Tapering	Monofil	N
WS-0720DJ2-A	7	20	2	Tapering	Monofil	N
WS-0725DJ2-A	7	25	2	Tapering	Monofil	N
WS-0730DJ2-A	7	30	2	Tapering	Monofil	N
WS-1520DJ2-A	15	20	2	Tapering	Monofil	N
WS-1525DJ2-A	15	25	2	Tapering	Monofil	N
WS-1530DJ2-A	15	30	2	Tapering	Monofil	N

Disposable Papillotome and Needle Electrode

Model	A(mm)	B (mm)	Lumen Number	Tip Shape	Wire Type	Smart Knife Y/N
WS-2520DJ2-A	25	20	2	Tapering	Monofil	N
WS-2525DJ2-A	25	25	2	Tapering	Monofil	N
WS-2530DJ2-A	25	30	2	Tapering	Monofil	N
WS-0320DJ2-B	3	20	2	Round	Twisted	N
WS-0325DJ2-B	3	25	2	Round	Twisted	N
WS-0330DJ2-B	3	30	2	Round	Twisted	N
WS-0720DJ2-B	7	20	2	Round	Twisted	N
WS-0725DJ2-B	7	25	2	Round	Twisted	N
WS-0730DJ2-B	7	30	2	Round	Twisted	N
WS-1520DJ2-B	15	20	2	Round	Twisted	N
WS-1525DJ2-B	15	25	2	Round	Twisted	N
WS-1530DJ2-B	15	30	2	Round	Twisted	N
WS-2520DJ2-B	25	20	2	Round	Twisted	N
WS-2525DJ2-B	25	25	2	Round	Twisted	N
WS-2530DJ2-B	25	30	2	Round	Twisted	N
WS-0320DJ2-C	3	20	2	Tapering	Twisted	N
WS-0325DJ2-C	3	25	2	Tapering	Twisted	N
WS-0330DJ2-C	3	30	2	Tapering	Twisted	N
WS-0720DJ2-C	7	20	2	Tapering	Twisted	N
WS-0725DJ2-C	7	25	2	Tapering	Twisted	N
WS-0730DJ2-C	7	30	2	Tapering	Twisted	N
WS-1520DJ2-C	15	20	2	Tapering	Twisted	N
WS-1525DJ2-C	15	25	2	Tapering	Twisted	N
WS-1530DJ2-C	15	30	2	Tapering	Twisted	N
WS-2520DJ2-C	25	20	2	Tapering	Twisted	N
WS-2525DJ2-C	25	25	2	Tapering	Twisted	N
WS-2530DJ2-C	25	30	2	Tapering	Twisted	N
WS-0320DJ2T	3	20	2	Round	Monofil	Y
WS-0325DJ2T	3	25	2	Round	Monofil	Y
WS-0330DJ2T	3	30	2	Round	Monofil	Y
WS-0720DJ2T	7	20	2	Round	Monofil	Y
WS-0725DJ2T	7	25	2	Round	Monofil	Y
WS-0730DJ2T	7	30	2	Round	Monofil	Y
WS-1520DJ2T	15	20	2	Round	Monofil	Y
WS-1525DJ2T	15	25	2	Round	Monofil	Y
WS-1530DJ2T	15	30	2	Round	Monofil	Y
WS-2520DJ2T	25	20	2	Round	Monofil	Y
WS-2525DJ2T	25	25	2	Round	Monofil	Y

Model	A(mm)	B (mm)	Lumen Number	Tip Shape	Wire Type	Smart Knife Y/N
WS-2530DJ2T	25	30	2	Round	Monofil	Y
WS-0320DJ2T-A	3	20	2	Tapering	Monofil	Y
WS-0325DJ2T-A	3	25	2	Tapering	Monofil	Y
WS-0330DJ2T-A	3	30	2	Tapering	Monofil	Y
WS-0720DJ2T-A	7	20	2	Tapering	Monofil	Y
WS-0725DJ2T-A	7	25	2	Tapering	Monofil	Y
WS-0730DJ2T-A	7	30	2	Tapering	Monofil	Y
WS-1520DJ2T-A	15	20	2	Tapering	Monofil	Y
WS-1525DJ2T-A	15	25	2	Tapering	Monofil	Y
WS-1530DJ2T-A	15	30	2	Tapering	Monofil	Y
WS-2520DJ2T-A	25	20	2	Tapering	Monofil	Y
WS-2525DJ2T-A	25	25	2	Tapering	Monofil	Y
WS-2530DJ2T-A	25	30	2	Tapering	Monofil	Y
WS-0320DJ2T-B	3	20	2	Round	Twisted	Y
WS-0325DJ2T-B	3	25	2	Round	Twisted	Y
WS-0330DJ2T-B	3	30	2	Round	Twisted	Y
WS-0720DJ2T-B	7	20	2	Round	Twisted	Y
WS-0725DJ2T-B	7	25	2	Round	Twisted	Y
WS-0730DJ2T-B	7	30	2	Round	Twisted	Y
WS-1520DJ2T-B	15	20	2	Round	Twisted	Y
WS-1525DJ2T-B	15	25	2	Round	Twisted	Y
WS-1530DJ2T-B	15	30	2	Round	Twisted	Y
WS-2520DJ2T-B	25	20	2	Round	Twisted	Y
WS-2525DJ2T-B	25	25	2	Round	Twisted	Y
WS-2530DJ2T-B	25	30	2	Round	Twisted	Y
WS-0320DJ2T-C	3	20	2	Tapering	Twisted	Y
WS-0325DJ2T-C	3	25	2	Tapering	Twisted	Y
WS-0330DJ2T-C	3	30	2	Tapering	Twisted	Y
WS-0720DJ2T-C	7	20	2	Tapering	Twisted	Y
WS-0725DJ2T-C	7	25	2	Tapering	Twisted	Y
WS-0730DJ2T-C	7	30	2	Tapering	Twisted	Y
WS-1520DJ2T-C	15	20	2	Tapering	Twisted	Y
WS-1525DJ2T-C	15	25	2	Tapering	Twisted	Y
WS-1530DJ2T-C	15	30	2	Tapering	Twisted	Y
WS-2520DJ2T-C	25	20	2	Tapering	Twisted	Y
WS-2525DJ2T-C	25	25	2	Tapering	Twisted	Y
WS-2530DJ2T-C	25	30	2	Tapering	Twisted	Y

Model	A(mm)	B (mm)	Lumen Number	Tip Shape	Wire Type	Smart Knife Y/N
WS-0320DJ3	3	20	3	Round	Monofil	N
WS-0325DJ3	3	25	3	Round	Monofil	N
WS-0330DJ3	3	30	3	Round	Monofil	N
WS-0720DJ3	7	20	3	Round	Monofil	N
WS-0725DJ3	7	25	3	Round	Monofil	N
WS-0730DJ3	7	30	3	Round	Monofil	N
WS-1520DJ3	15	20	3	Round	Monofil	N
WS-1525DJ3	15	25	3	Round	Monofil	N
WS-1530DJ3	15	30	3	Round	Monofil	N
WS-2520DJ3	25	20	3	Round	Monofil	N
WS-2525DJ3	25	25	3	Round	Monofil	N
WS-2530DJ3	25	30	3	Round	Monofil	N
WS-0320DJ3-A	3	20	3	Tapering	Monofil	N
WS-0325DJ3-A	3	25	3	Tapering	Monofil	N
WS-0330DJ3-A	3	30	3	Tapering	Monofil	N
WS-0720DJ3-A	7	20	3	Tapering	Monofil	N
WS-0725DJ3-A	7	25	3	Tapering	Monofil	N
WS-0730DJ3-A	7	30	3	Tapering	Monofil	N
WS-1520DJ3-A	15	20	3	Tapering	Monofil	N
WS-1525DJ3-A	15	25	3	Tapering	Monofil	N
WS-1530DJ3-A	15	30	3	Tapering	Monofil	N
WS-2520DJ3-A	25	20	3	Tapering	Monofil	N
WS-2525DJ3-A	25	25	3	Tapering	Monofil	N
WS-2530DJ3-A	25	30	3	Tapering	Monofil	N
WS-0320DJ3-B	3	20	3	Round	Twisted	N
WS-0325DJ3-B	3	25	3	Round	Twisted	N
WS-0330DJ3-B	3	30	3	Round	Twisted	N
WS-0720DJ3-B	7	20	3	Round	Twisted	N
WS-0725DJ3-B	7	25	3	Round	Twisted	N
WS-0730DJ3-B	7	30	3	Round	Twisted	N
WS-1520DJ3-B	15	20	3	Round	Twisted	N
WS-1525DJ3-B	15	25	3	Round	Twisted	N
WS-1530DJ3-B	15	30	3	Round	Twisted	N
WS-2520DJ3-B	25	20	3	Round	Twisted	N
WS-2525DJ3-B	25	25	3	Round	Twisted	N
WS-2530DJ3-B	25	30	3	Round	Twisted	N
WS-0320DJ3-C	3	20	3	Tapering	Twisted	N
WS-0325DJ3-C	3	25	3	Tapering	Twisted	N

Model	A(mm)	B (mm)	Lumen Number	Tip Shape	Wire Type	Smart Knife Y/N
WS-0330DJ3-C	3	30	3	Tapering	Twisted	N
WS-0720DJ3-C	7	20	3	Tapering	Twisted	N
WS-0725DJ3-C	7	25	3	Tapering	Twisted	N
WS-0730DJ3-C	7	30	3	Tapering	Twisted	N
WS-1520DJ3-C	15	20	3	Tapering	Twisted	N
WS-1525DJ3-C	15	25	3	Tapering	Twisted	N
WS-1530DJ3-C	15	30	3	Tapering	Twisted	N
WS-2520DJ3-C	25	20	3	Tapering	Twisted	N
WS-2525DJ3-C	25	25	3	Tapering	Twisted	N
WS-2530DJ3-C	25	30	3	Tapering	Twisted	N
WS-0320DJ3T	3	20	3	Round	Monofil	Y
WS-0325DJ3T	3	25	3	Round	Monofil	Y
WS-0330DJ3T	3	30	3	Round	Monofil	Y
WS-0720DJ3T	7	20	3	Round	Monofil	Y
WS-0725DJ3T	7	25	3	Round	Monofil	Y
WS-0730DJ3T	7	30	3	Round	Monofil	Y
WS-1520DJ3T	15	20	3	Round	Monofil	Y
WS-1525DJ3T	15	25	3	Round	Monofil	Y
WS-1530DJ3T	15	30	3	Round	Monofil	Y
WS-2520DJ3T	25	20	3	Round	Monofil	Y
WS-2525DJ3T	25	25	3	Round	Monofil	Y
WS-2530DJ3T	25	30	3	Round	Monofil	Y
WS-0320DJ3T-A	3	20	3	Tapering	Monofil	Y
WS-0325DJ3T-A	3	25	3	Tapering	Monofil	Y
WS-0330DJ3T-A	3	30	3	Tapering	Monofil	Y
WS-0720DJ3T-A	7	20	3	Tapering	Monofil	Y
WS-0725DJ3T-A	7	25	3	Tapering	Monofil	Y
WS-0730DJ3T-A	7	30	3	Tapering	Monofil	Y
WS-1520DJ3T-A	15	20	3	Tapering	Monofil	Y
WS-1525DJ3T-A	15	25	3	Tapering	Monofil	Y
WS-1530DJ3T-A	15	30	3	Tapering	Monofil	Y
WS-2520DJ3T-A	25	20	3	Tapering	Monofil	Y
WS-2525DJ3T-A	25	25	3	Tapering	Monofil	Y
WS-2530DJ3T-A	25	30	3	Tapering	Monofil	Y
WS-0320DJ3T-B	3	20	3	Round	Twisted	Y
WS-0325DJ3T-B	3	25	3	Round	Twisted	Y
WS-0330DJ3T-B	3	30	3	Round	Twisted	Y
WS-0720DJ3T-B	7	20	3	Round	Twisted	Y

Model	A(mm)	B (mm)	Lumen Number	Tip Shape	Wire Type	Smart Knife Y/N
WS-0725DJ3T-B	7	25	3	Round	Twisted	Y
WS-0730DJ3T-B	7	30	3	Round	Twisted	Y
WS-1520DJ3T-B	15	20	3	Round	Twisted	Y
WS-1525DJ3T-B	15	25	3	Round	Twisted	Y
WS-1530DJ3T-B	15	30	3	Round	Twisted	Y
WS-2520DJ3T-B	25	20	3	Round	Twisted	Y
WS-2525DJ3T-B	25	25	3	Round	Twisted	Y
WS-2530DJ3T-B	25	30	3	Round	Twisted	Y
WS-0320DJ3T-C	3	20	3	Tapering	Twisted	Y
WS-0325DJ3T-C	3	25	3	Tapering	Twisted	Y
WS-0330DJ3T-C	3	30	3	Tapering	Twisted	Y
WS-0720DJ3T-C	7	20	3	Tapering	Twisted	Y
WS-0725DJ3T-C	7	25	3	Tapering	Twisted	Y
WS-0730DJ3T-C	7	30	3	Tapering	Twisted	Y
WS-1520DJ3T-C	15	20	3	Tapering	Twisted	Y
WS-1525DJ3T-C	15	25	3	Tapering	Twisted	Y
WS-1530DJ3T-C	15	30	3	Tapering	Twisted	Y
WS-2520DJ3T-C	25	20	3	Tapering	Twisted	Y
WS-2525DJ3T-C	25	25	3	Tapering	Twisted	Y
WS-2530DJ3T-C	25	30	3	Tapering	Twisted	Y

Needle shape DZ

Model	Max. Insertion Portion Width (mm)	Working Length (mm)	Needle Length (mm)	Compatible Endoscope	
				Minimum Channel Width (mm)	Working Length (mm)
WS-2416DZ	Φ2.5	1600	/	Φ2.8	1350 or less
WS-2421DZ05	Φ2.5	2100	5	Φ2.8	1600 or less
WS-2421DZ07	Φ2.5	2100	7	Φ2.8	1600 or less
WS-2421DZ10	Φ2.5	2100	10	Φ2.8	1600 or less

The above product specifications are only partial, just for reference