DOUBLE BALLOON ENDOSCOPY SYSTEM

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DISCOVER HIGH-PRECISION DIAGNOSES AND PROCEDURES

DOUBLE BALLOON ENDOSCOPY

By developing double balloon endoscopy, Fujifilm made it possible for the first time to examine and treat the entire small intestine. The two-balloon system is revolutionary, providing an unparalleled level of detail and remains the gold standard in examination of the small intestine. It is also commonly used in ERCPs with altered post-surgical anatomy.

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CO_2 INSUFFLATOR GW-100

BALLOON CONTROLLER PB-30

ENTEROSCOPES
FOR COMMON AND SPECIAL PROCEDURES

VIDEO PROCESSORS AND LIGHT SOURCES
ELUXEO™ AND EPX-3500

ACCESSORIES
ALSO LATEX-FREE

THERAPEUTIC DOUBLE BALLOON

The well-established EN-580T double balloon endoscope has greatly contributed to accurate diagnosis and treatment for diseases of the small intestine. Featuring a large working channel of 3.2 mm in diameter, improved close focus capability and relocated balloon air feed inlet, it meets today's needs for more precise and efficient examinations and treatment. The special slim type EN-580XP with a distal end of only 7.5 mm and the newly developed short double balloon EI-580BT with a length of 155 cm and adaptive bending complete the Fujifilm portfolio – ideal for a wide variety of common and special procedures.

Oral insertion (small intestine)

Anal insertion (small intestine)

DOUBLE BALLOON ENDOSCOPY

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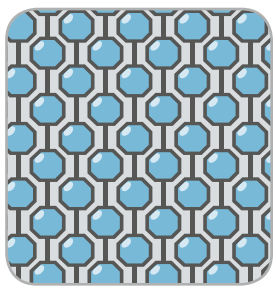
ENDOSCOPE

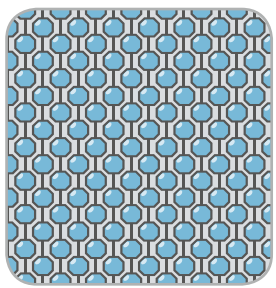
580 SUPER CCD WITH CLOSE FOCUS

Superior image quality in close focus for more detailed diagnosis

The Super CCD ensures vivid and high quality images, while the close-focus optics enhance the possibility of obtaining more detailed images, thus allowing the compilation of a wide range of data necessary for diagnosis. Used in combination with FICE, the EN-580T and EN-580XP enable easier differentiation between lesion-affected and non-affected areas.

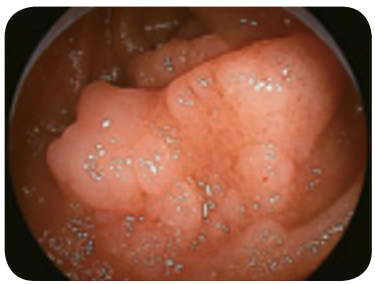


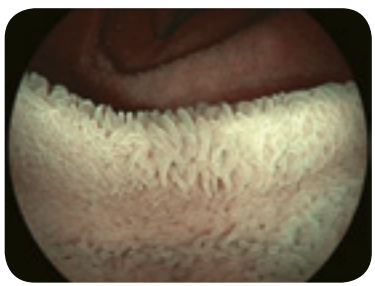
Previous Super CCD



580 Super CCD

White light image of intestinal villi





FICE image of intestinal villi

SUPPORTS A WIDE VARIETY OF PROCEDURES

THERAPEUTIC **EN-580T** ENTEROSCOPE

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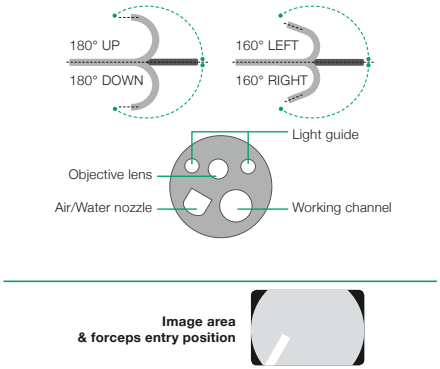
ENTEROSCOPE **EN-580T** Therapeutic Type

DOUBLE BALLOON ENDOSCOPY

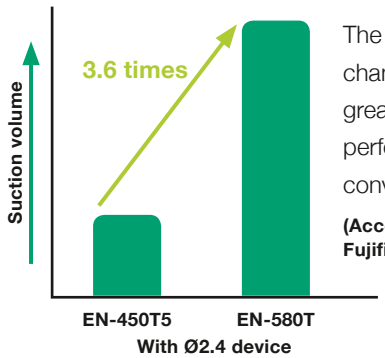
A double balloon endoscope suitable for both observation and treatment. The 3.2 mm diameter working channel enables improved suction performance and supports a wide variety of procedures including haemostasis and balloon dilatation. The High Resolution Super CCD ensures vivid and high quality images, and the new optical lens enables an observation range of 2 – 100 mm and a wide-angle 140° field of view.

Viewing direction	0° (Forward)
Field of view	140°
Observation range	2 – 100 mm
Bending capability	Up 180° / Down 180° Right 160° / Left 160°
Distal end diameter	9.4 mm
Flexible portion diameter	9.3 mm
Working channel diameter	3.2 mm
Working length	2,000 mm
Total length	2,300 mm



A large working channel of 3.2 mm in diameter for efficient treatment

The 3.2 mm diameter working channel suits various procedures like haemostasis and balloon dilation, providing greater suction performance than that of conventional models. As it enables blood or mucus to be aspirated while a therapeutic device is inserted, quicker haemostasis is possible. The large working channel allows an easier insertion and removal of the balloon catheter before and after dilatation of structures.



The 3.2 mm working channel provides greater suction performance than conventional models.

(According to Fujifilm data)

ALSO SUITABLE FOR PAEDIATRIC USE

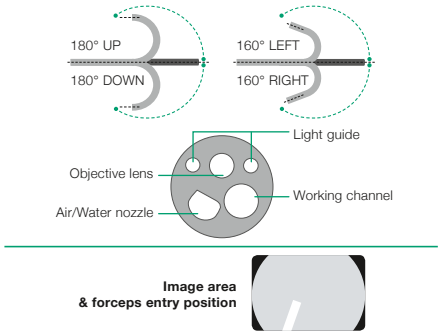
SLIM TYPE **EN-580XP** ENTEROSCOPE

ENTEROSCOPE **EN-580XP** Slim Type

Close Focus | SUPER CCD | FICE | DOUBLE BALLOON ENDOSCOPY

A slim type enteroscope with a distal end diameter of only 7.5 mm and a softer flexible portion – also for paediatric use. The working channel of 2.2 mm enables good suction functionality. The High Resolution Super CCD ensures vivid and high quality images, and the optical lens enables the observation range of 2 – 100 mm and a wide-angle 140° field of view. It should be used in combination with the silicone rubber over-tube and balloon.

Field of view	140°
Observation range	2 – 100 mm
Bending capability	Up 180° / Down 180° Right 160° / Left 160°
Distal end diameter	7.5 mm
Flexible portion diameter	7.7 mm
Working channel diameter	2.2 mm
Working length	2,000 mm
Total length	2,300 mm



EN-580XP
(Slim type)

2.2 mm working channel

ø 7.5 mm

EN-580T
(Therapeutic type)

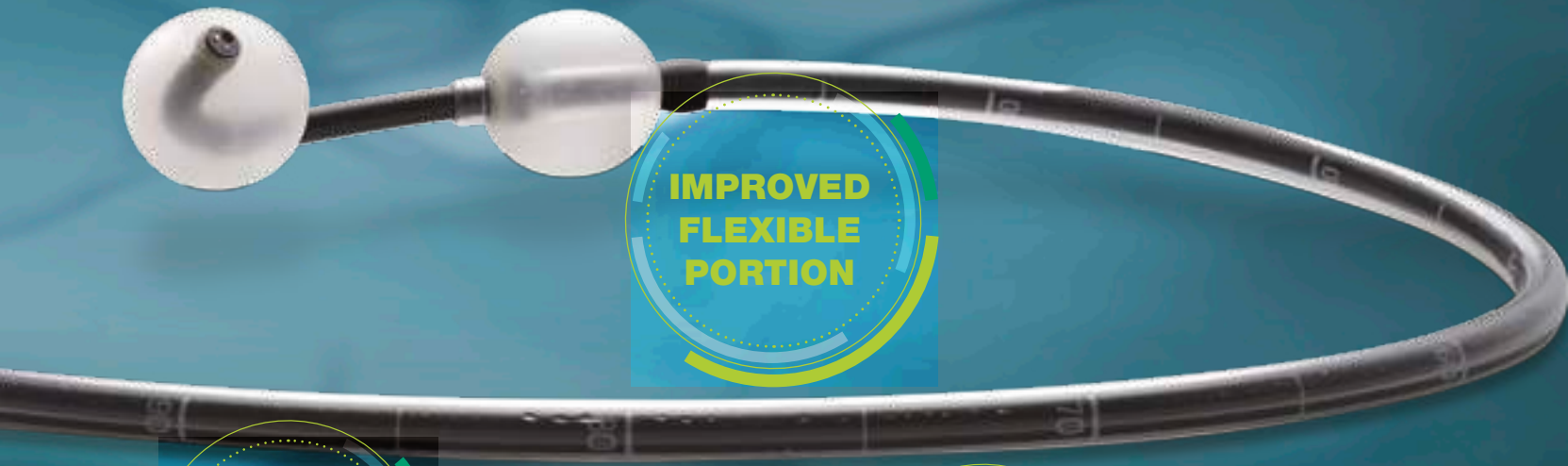
3.2 mm working channel

ø 9.4 mm

NEW

OVERCOME TECHNICALLY-CHALLENGING THERAPEUTIC ERCP PROCEDURES

EI-580BT "SHORT" DOUBLE BALLOON



IMPROVED FLEXIBLE PORTION

3.2 MM WORKING CHANNEL

SMALL TURNING RADIUS

G7 GRIP

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ENDOSCOPE

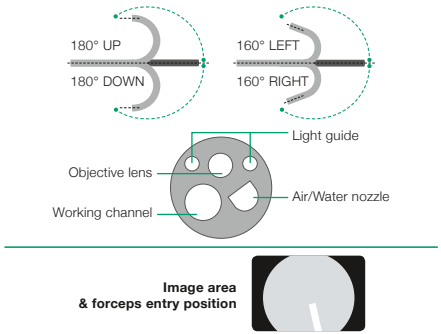
NEW

„SHORT“ DOUBLE BALLOON ENDOSCOPE **EI-580BT**

DBE 3.2mm | Close Focus | FICE | DOUBLE BALLOON ENDOSCOPY

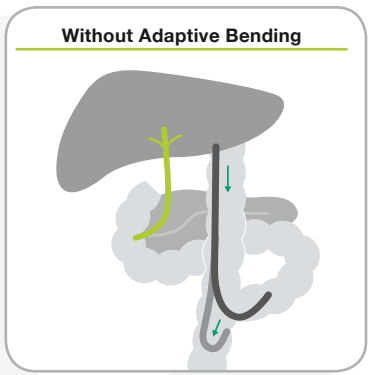
The newly-developed “short” Double Balloon Endoscope (sDBE) is engineered to overcome technically-challenging therapeutic ERCP procedures in patients with surgically-altered anatomy such as Roux-en-Y reconstruction or hepaticojejunostomy anastomosis. The “short” Double Balloon Endoscope‘s length of 155 cm is optimum in these procedures; it provides compatibility with most standard ERCP devices as well as superior manoeuvrability for smoother insertion in situations of complex anatomy.

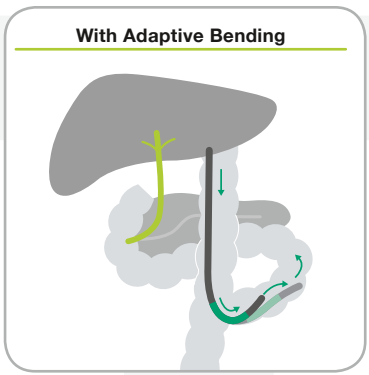
Field of view	140°
Observation range	2–100 mm
Bending capability	Up 180°/Down 180° Right 160°/Left 160°
Distal end diameter	9.4 mm
Flexible portion diameter	9.3 mm
Working channel diameter	3.2 mm
Working length	1,550 mm
Total length	1,850 mm



ADAPTIVE BENDING

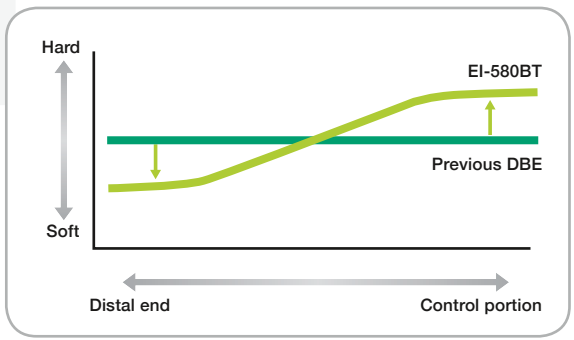
- Enables easy insertion into the afferent limb with the soft flexible end portion.
- Supports deeper insertion even through post-surgical adhesions of the intestinal tract.





ADVANCED FORCE TRANSMISSION

Enhances procedural control in a looped position, allowing stable scope manoeuvrability with responsive torque. Better transmits pushing force even in tortuous anatomy.



ELUXEO™ AND EPX-3500HD

4-LED MULTI LIGHT™ TECHNOLOGY

LOW ENERGY CONSUMPTION

ANTI-BLUR FUNCTION

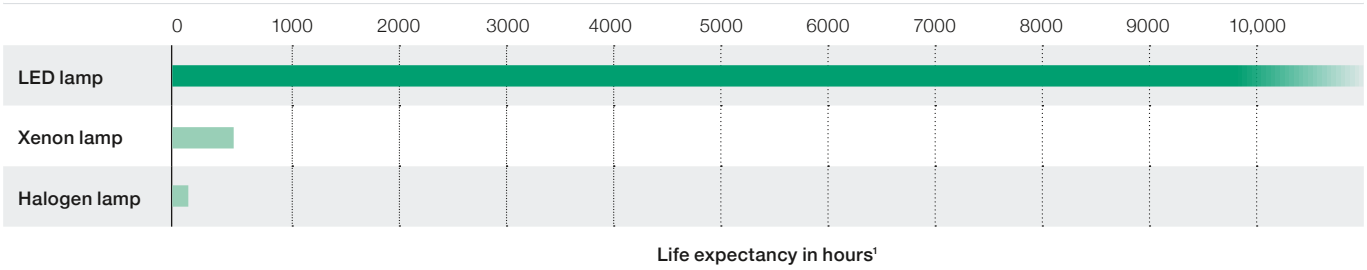
ELUXEO LIGHT SOURCE **BL-7000**

4-LED Multi Light™ Source with high durability

To achieve the highest standards, the eco-friendly ELUXEO™ 7000 system features the innovative 4-LED Multi Light™ Source, which is outstanding in terms of longevity and low energy consumption. The new LED light source reduces frequent and time-consuming changes of light bulbs. The average life expectancy of LED lamps is 10,000 hours[1].

Light source	LED maximum light output: 1400 lm
Light control	Automatic light control by the control signal from video processor
Light cooling method	Forced air cooling
Air supply pump	Available at 4 levels (Hi/Mid/Low/ Off)
Power rating	100–240V 50/60Hz 1.2–0.7 A
Dimensions (W x H x D)	390 x 155 x 485mm (including projection)
Weight	12kg
Optical radiation safety	Class 1 LED product

FUJIFILM group
Green Policy



[1] **Based on Fujifilm's recommended conditions.**

VIDEO PROCESSOR **VP-7000**

ELUXEO VIDEO PROCESSOR **VP-7000**

High Performance Video Processor

The ELUXEO™ video processor VP-7000 enables you to make use of the many features provided by Fujifilm's wide range of scopes along with the innovative 4-LED Multi Light™ illumination system and its innovative visualisation modes BLI and LCI. It is compatible with the 700, 600 and 500 series of scopes. The processor creates high quality images and videos displayed in full HD.
An automatic back-up mode for data storage is integrated and the processor is also DICOM compatible.

Light Source BL-7000 and Video Processor VP-7000

Digital output	DVI (resolution 1280 x 1024 px, 1920 x 1080 px) HD-SDI (resolution 1920 x 1080 px)
Input/Output connector	DVI-D: 2 channel S VIDEO DVI-I: 2 channel VIDEO HD-SDI: 2 channel RGB TV Input Connector: 1 channel PoP
Control connector	Light Source I/F (37P): 1 channel Light Source I/F (Mini D-Sub 15P): 1 channel Remote (Bnc): 2 channel Peripherals (D-Sub 9P): 2 channel Keyboard: 1 channel Card reader: 1 channel Digital printer: 1 channel Footswitch: 1 channel Network: 1 channel
Type of colour	NTSC/PAL
Iris	Average/Peak/Auto
Applicable endoscope	700/600/500 series
Power rating	100 - 240 V 50/60 Hz 0.8 - 0.5 A
Dimensions (W x H x D)	390 x 110 x 485 mm (including projection)
Weight	9.0 kg

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EPX-3500HD

VIDEO PROCESSOR **EPX-3500HD**

Advanced Endoscopic Diagnostics and Therapies

The EPX-3500HD with its advanced image processing technology facilitates endoscopic diagnostics and therapies. It provides clear images by using superior functions such as structure enhancement (FICE), automatic light control and anti-blur. The EPX-3500HD is compatible with our full range of 500 and 600 series endoscopes. Three patterns of FICE, which enhances the colour tone of endoscopic images by image processing, are pre-defined and can be easily operated by pressing the scope switch button. Thanks to the anti-blur function, all captured images are documented in razor-sharp detail. During the archiving stage, the video processor automatically selects and saves the cleanest image.

VP-3500HD Processor

Digital output	2 x DVI: 1280 x 1024 p or 1920 x 1080 px
Analog output	1 x RGB TV (PAL, RGB+SYNC), 1 x S-VIDEO (Y/C), 1 x VIDEO (Composite)
Control terminal	2 x Remote, 2 x Peripheral, 1 x Keyboard, 1 x Card reader, 1 x Aux, 1 x Digital printer, 1 x Foot switch, 1 x Ethernet (100/1O Base)
Colour adjustment	Brightness, Red, Green, Blue, R-Hue, Chroma, 9 steps
Contrast	3 steps
Structure emphasis	High, Mid, Low, Off
Color emphasis	High, Mid, Low, Off
FICE	3 presets (FICE 0, 1, 8)
Iris	Average / Peak / Auto
Image storage	USB Flash Drive
Power rating	AC 100–240 V ± 10 % 50/60 Hz 1.0–0.3 A*
Dimensions (W x H x D)	390 x 105 x 460 mm
Weight	8 kg

*less than 90 VA

XL-4450 Light source

Lamp rated value	Main lamp: 300 W xenon lamp LMP-002 Emergency Lamp: 75 W halogen lamp
Light control	Automatic light control
Lamp cooling method	Forced air cooling
Air supply pump	High, Mid, Low, Off
Light save	On, Off
Transmitted illumination	On, Off
Power rating	230 V ± 10 % 50 Hz 1.7 A / 120 V ± 10 % 60 Hz 3.3 A
Dimensions (W x H x D)	390 x 155 x 450 mm
Weight	15 kg

THREE PRESET FICE PATTERNS AVAILABLE

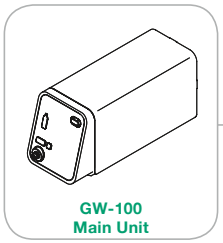
ACCESSORIES

CO_2 INSUFFLATOR **GW-100**

Fast resorption of insufflated CO_2 for timesaving and patient-friendly examinations. Our latest GW-100 CO_2 insufflator offers clinicians an optimised and easy-to-handle procedure as well as maximum patient comfort.

FEATURES

- Direct connection to hospital's medical CO_2 pipeline as well as to a medical CO_2 cylinder
- Easy-to-use CO_2 flow rate switching function and compact design
- Two controlled flow rate settings



GW-100
Main Unit

CT-11G Gas Tube
Standard Accessory

WT-04G Gas/Water Tank
Standard Accessory

Tube sets for the connection of GW-100 to the medical gas pipeline and medical gas cylinders are available.

BALLOON CONTROL UNIT **PB-30**

Used to control the pressure inside the balloons that are inflated and deflated during DBE examinations.

Maximum flow rate of pump	170 ml ± 50 ml / 10 sec
Set pressure accuracy	± 2 kpa
Set pressure of balloon	5.6 kpa
Weight	7 kg (Main unit), 0.4 kg (Remote switch)
Power	AC 100–240 V 50/60 Hz 0.8 A
Dimensions (W x H x D)	145 x 170 x 410 mm

NEW

OVERTUBE **TS-1114B / 1214B / 1314B** LATEX FREE

Silicone overtube, sterile, single-use, with expiration date (contains silicone rubber)

Overtube model	TS-1114B	TS-1214B	TS-1314B
Applicable endoscopes	EN-580XP	EN-450P520	EN-450T5 EN-580T

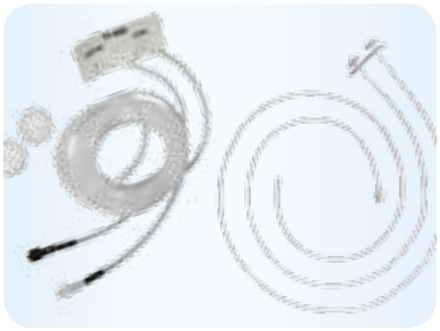
OVERTUBE **TS-12140 / 13140 / 13101**

Latex overtube, sterile, single use, with expiration date (contains natural rubber latex)

Overtube model	TS-12140	TS-13140	TS-13101
Applicable endoscopes	EN-450P520	EN-450T5 EN-580T	EC-450BI5 EI-580BT

NEW

CONNECTION TUBE **TY-400 / TY-500** LATEX FREE



TY-400:
Connection tube kit for silicone overtube, PB-20/30 and 450 series – exchange once every month or once every 10 cases

TY-500:
Connection tube kit for silicone overtube, PB-20/30 and 500 series – exchange once every month or once every 10 cases

Latex-free tubes and balloons now available. For further information please see our guidebook on DBE accessories.

ACCESSORIES

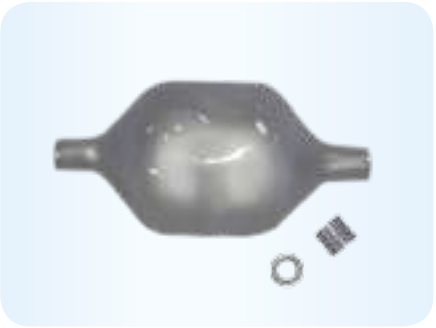
CONNECTION TUBE **TY-04 / TY-06**

TY-04:
Connection tube kit for latex overtube, PB-20/30 and 450 series – exchange once every month or once every 10 cases

TY-06:
One-touch-connector set (2 tubes) for latex overtube, PB-20/30 and 500 series

NEW

BALLOON **BS-4** LATEX FREE

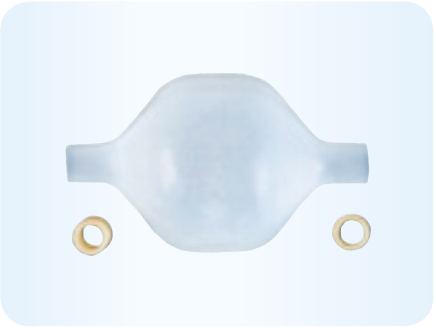


Endoscope balloon Ø 35 mm, single-use, with expiration date (contains silicone rubber)

(10 pcs balloon + 20 pcs rubber band/pack)

ST-10 is needed to attach

BALLOON **BS-2**

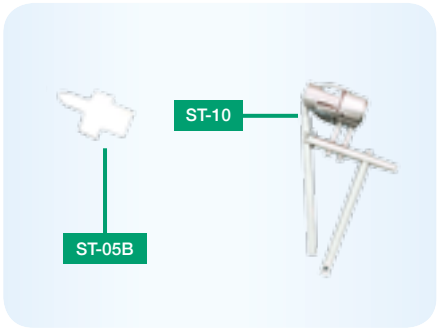


Endoscope balloon Ø 35 mm, single-use, with expiration date (contains natural rubber latex)

(10 pcs balloon + 20 pcs rubber band/pack)

Latex-free tubes and balloons now available. For further information please see our guidebook on DBE accessories.

BALLOON SETTING TOOLS **ST-05B / ST-10**



To set the balloon and rubber bands

DISTAL END HOOD **DH-17EN**

Hood for EN-580T and EI-580BT

VALVES FOR G7 GRIP

SB-605
Suction valve

AW-603
Air/Water valve

AW-604G
Gas/Water valve

For further information please see our guidebook on DBE accessories.

ADVANCING DEEPER INSIGHTS IN ENDOSCOPY

FUJIFILM

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