



MICRO-TECH

High-quality products for interventional endoscopy.



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Product number

000	Jet Cleaner
28-016	Disposable flush hose
29-100	Disposable flush hose with non-return valve
9011...	ENDOf Polypectome
9011...	FARIn Typ U
901186	HF-cable
96481	Single-use inflation-instrument

AC01	Mouthguards
AC03	Biopsy valves
AS24	Disposable biopsy valve with flush connection

BBP	Polyp trap
BDC	Dilatation balloons OTW / TTS / Achalasie
BK1	Disposable baskets, pull rope length 200 cm
BPDS	Plastic bile duct stents without stent/pre-loaded
BPDI	Plastic bile duct stents introducer-systems

C91...	Padlock Clip
CB	Cleaning brushes
CS3	Coldsnares
CYB	Cytology brushes

DSP	Papillotome
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EBF...	Eco forceps
EPC/EPK/ EPA	EndoClot

GW11	Classic guide wire
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HBFO5	Hot-biopsy forceps
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Product number

IN12	Injection-needle IN
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LT1	Disposable lithotripsy baskets, pull rope length 400 cm
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MBD	Multi-stage dilatation balloons
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MBLS	Multiband ligation-system
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MT	Disposable bougies
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MTN	Eco guide wire
-----	--------------------------------

NBF...	Biopsy forceps
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NGF	Disposable foreign body forceps
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PFS01	Polypectomy Snares
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PS1	Precision snares from bauer medical
-----	---

RA	Proctoscope
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ROCC	SureClip and EcoClip
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SN1	Safety Needle SN
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SRB-T	Stone Extraction balloons
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ST01	Oesophagus stents
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ST02	Duodenum stents
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ST03	Biliary duct stents
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ST04	Colon and rectum stents
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ST05	Tracheal and bronchial stents
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ST11	AccuraSIS
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ST33	Pseudocyst stent
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ST71	Segmented stent
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TX01	Coloshorts
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TX03	Instrument cloth
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Typ A/B/C	FARIn-Snare
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Product category**Removal**

PFS01	Polypectomy Snares
PS1	Precision snares from bauer medical
CS3	Coldsnares
9011...	ENDOx Polypectome
Typ A/B/C	FARIn-Snare
9011...	FARIn Typ U
901186	HF-cable

Reprocessing

CB	Cleaning brushes
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Balloons

MBD	Multi-stage dilatation balloons
BDC	Dilatation balloons OTW / TTS / Achalasie
MT	Disposable bougies
SRB-T	Stone Extraction balloons
96481	Single-use inflation-instrument

Biopsy and cytology

NBF...	Biopsy forceps
EBF...	Eco forceps
CYB	Cytology brushes

ERCP

DSP	Papillotome
SRB-T	Stone Extraction balloons
GW11	Classic guide wire
MTN	Eco guide wire
BK1	Disposable baskets, pull rope length 200 cm
LT1	Disposable lithotripsy baskets, pull rope length 400 cm

Foreign body removal

NGF	Disposable foreign body forceps
BK1	Disposable baskets, pull rope length 200 cm
LT1	Disposable lithotripsy baskets, pull rope length 400 cm

Guide wires

GW11	Classic guide wire
MTN	Eco guide wire

Product category**Haemostasis**

ROCC	SureClip and EcoClip
EPC/EPK/ EPA	EndoClot
IN12	Injection-needle IN
SN1	Safety Needle SN
C91...	Padlock Clip
HBF05	Hot-biopsy forceps
MBLS	Multiband ligation-system

Needles

IN12	Injection-needle IN
SN1	Safety Needle SN
HBF05	Hot-biopsy forceps

Stents Gastrointestinal

BPDS	Plastic bile duct stents without stent/pre-loaded
BPDI	Plastic bile duct stents introducer-systems
ST01	Oesophagus stents
ST02	Duodenum stents
ST03	Biliary duct stents
ST04	Colon and rectum stents
ST11	AccuraSIS
ST33	Pseudocyst stent
ST71	Segmented stent

Stents Tracheal- and bronchial

ST05	Tracheal and bronchial stents
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Miscellaneous

RA	Proctoscope
AC01	Mouthguards
TX01	Coloshorts
TX03	Instrument cloth
AC03	Biopsy valves
AS24	Disposable biopsy valve with flush connection
BBP	Polyp trap
000	Jet Cleaner
28-016	Disposable flush hose
29-100	Disposable flush hose with non-return valve



Welcome to MICRO-TECH.

Your partner for endotherapeutic accessories.

You can expect more with MICRO-TECH as your partner for high quality accessories for endotherapeutic interventions. Better quality in therapeutic endoscopy. Increased safety for your patients. Greater comfort

for you and your team. As one of the leading international specialists in endotherapeutic accessories, MICRO-TECH exclusively develops, produces and markets solutions that meet the highest quality standards.



MICRO-TECH (Nanjing) Co., Ltd.



MICRO-TECH Europe GmbH

Solutions that set standards all over the world.

MICRO-TECH was founded in China in 2000 as a supplier of high-quality stents and accessory components for flexible endoscopy. The emphasis was placed on premium quality and individual consultancy right from the outset. Today, the company is one of the leading

manufacturers and suppliers on an international level and provides physicians all over the world with products that make their work simpler, safer and more patient-friendly.



“Made in China” quality.

The MICRO-TECH name is synonymous with premium quality all over the world, be it in its home country, China, where the company dominates the market with a market share of well over 50%, or internationally, in Europe or America. 75% of overall turnover comes from overseas sales, underlining MICRO-TECH's inter-

national orientation and offering striking proof of the high level of acceptance that our products enjoy on the international markets. With an annual production volume of approx. 50,000 stents, MICRO-TECH is one of the world's largest manufacturers of self-expanding Nitinol stents for the digestive and respiratory tracts.

Cleanliness as the highest priority.

Each product is developed and produced at the MICRO-TECH head office in Nanjing. Over 700 highly qualified employees, technicians and engineers work in an area of 14,000 m². A state-of-the-art production plant with two clean rooms guarantees absolutely safe and clean manufacture. Both the class 100.000 clean room with an area of 2500 m² and the large class 10.000 clean room naturally comply with the GMP requirements (Good Manufacturing Practice Regulations) of the American FDA (Food and Drug Administration) and thereby fulfil the highest standards.



In the middle of Europe with MICRO-TECH Europe.

MICRO-TECH was the first Chinese manufacturer of endotherapeutic instruments to set up a foreign base in Europe: MICRO-TECH Europe GmbH in Germany. Since 2007, it manages from Düsseldorf, an internationally important junction, the supplies to all hospitals and private medical practices in Europe. Our steadily growing team of experts and the continual expansion

of our sales force network assure you the best-possible service, personal consultancy on site, and the delivery of high-quality products within 24 – 48 hours. This is how MICRO-TECH succeeded in becoming a leading supplier of endotherapeutic equipment in Europe within only few years.



Committed to quality.

As manufacturer of medical devices, we are fully aware of our responsibility towards you and your patients. This is why we also place the highest demands on the quality and workmanship of every single product.

In so doing, we regard the development of our solutions as a dynamic process. In other words: we control in order to optimise. We are constantly seeking new ways and means of improving the design of our products and services even further. This is the only way that both you and we can be sure that your patient's treatment will achieve the best result. In addition to

the quality of our materials, our employees' dedication and expertise that primarily guarantees the reliability of each individual product. Our team consists exclusively of competent specialists with many years of experience and is therefore able to develop unique precision solutions that both you and your patients can rely on entirely.

All solutions are naturally certified according to EN ISO 13485 and fulfil the stringent requirements of directive 93/42 EEC concerning medical devices.



Service is also customised work.

We regard our clients as business associates with whom we would like to closely collaborate. As a result, we are not only able to continue to adapt our products to the requirements of modern medicine, but also to work with you to develop customised solutions which best suit you and your patients. We focus predominantly on personal consultancy based on trust and the highest level of competence.



Strong partners.

For us to supply you with even more efficient solutions for your endoscopy applications, we collaborate with leading specialists in an international network. We call it the MICRO-TECH Group. Among them, you will find both suppliers of additional therapeutic equipment as well as experts of a rapid and safe health care provision. Besides, we are in close

contact with hospitals and purchasing associations in order to respond to the preferences of physicians with even more accuracy. We are still continuously expanding our international network and are always looking for new specialists to join us. If you want to grow with MICRO-TECH, please contact us.



Austria



Austria



Belgium,
Netherlands



Czech Republic



Estonia, Latvia, Lithuania



Finland, Denmark



France



Greece



Hungary



Ireland



Israel



Italy



Malta



Norway



Poland



Portugal



Russia



Slovenia



South Africa



Spain



Sweden



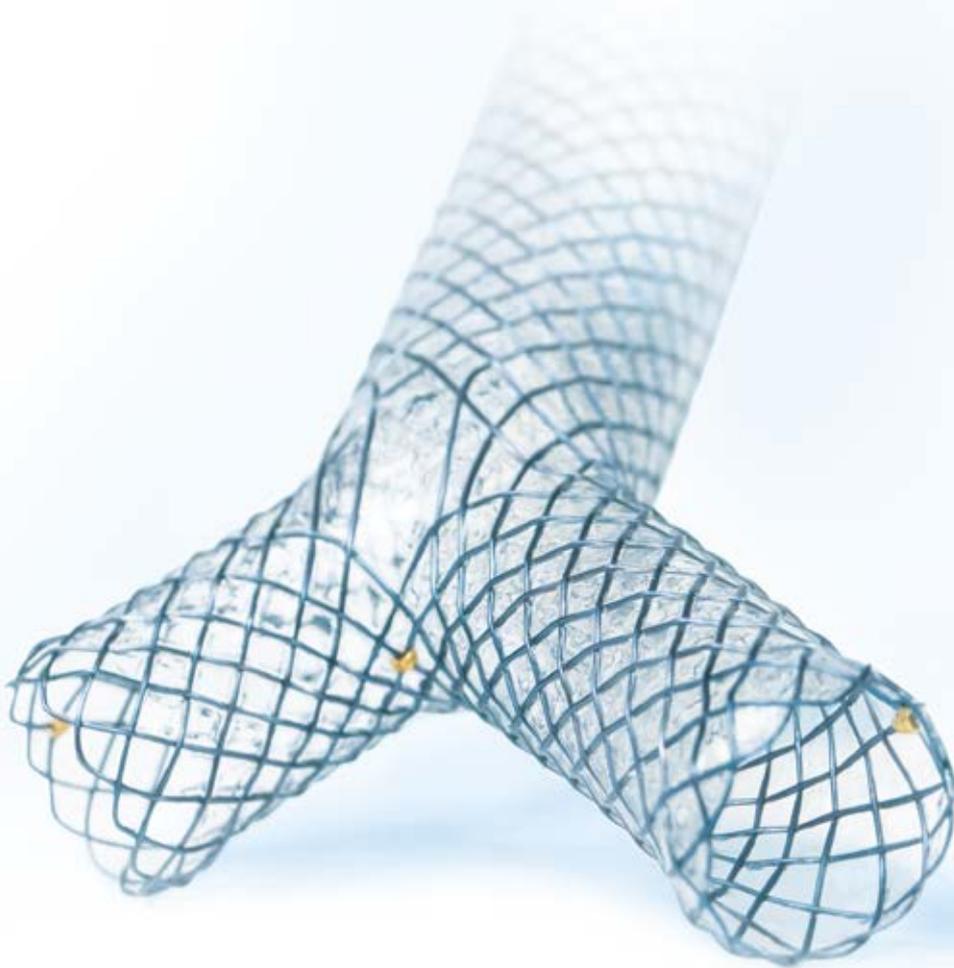
UK



Innovations for the future.

Even modern endoscopy has its limits. At least until ways of exceeding these are discovered. As an innovative company, we are relentlessly seeking to transcend medical boundaries, with considerable success. We are therefore able to offer you solutions that

were maybe conceivable up to now, but not yet feasible. The self-expanding Y-stent from MICRO-TECH is one of these international premieres. Its shape and release are unique and represent significant process in treatment of stenoses in the area around the carina.





Just as unique as your patient: customised productions from MICRO-TECH.

Each patient is different and the same applies to his/her anatomy. As a result, it is often not sufficient to resort to stents with standard shapes or sizes when bypassing stenoses. Solutions which are specifically tailored to the patient's requirements are called for in this case. MICRO-TECH has taken up this challenge and is the only manufacturer in the world to develop individual stents in addition to special sizes. Each of these stents is a genuine unique article, man-

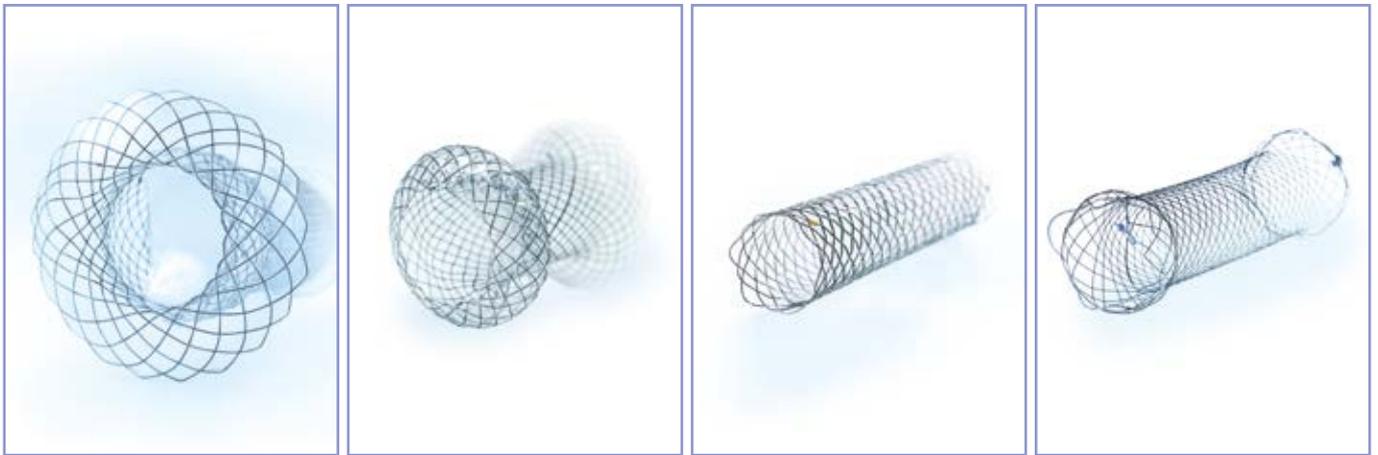
ufactured to suit the patient's specific anatomy and therefore adapt perfectly to physical dimensions and demands.

Do you have any questions, or would you like to find out more about the individual stents from MICRO-TECH? We will be pleased to provide you with detailed information. Call us on (+49 (0)211 73 27 626-0) or send an email to contact@micro-tech-europe.com.



Examples for patient-made-stents





Nitinol stents

Gastrointestinal.

[Oesophagus stents](#)

[Pseudocyst stent](#)

[Biliary duct stents](#)

[Plastic bile duct stents](#)

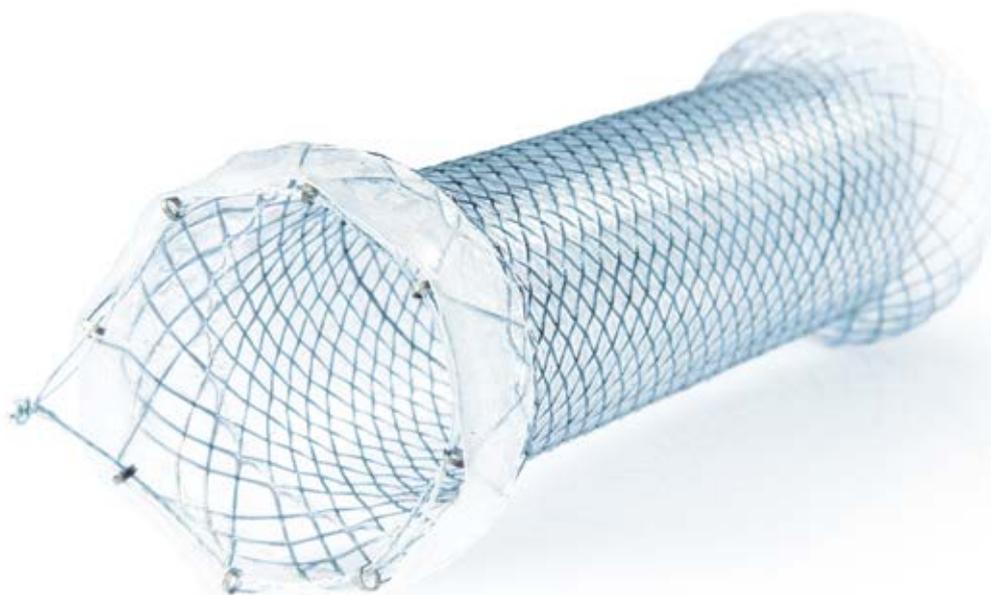
[Duodenum stents](#)



Nitinol-Stents.

Reliable bypassing of stenoses in the area of the digestive or respiratory tract places high demands on a stent. As one of the leading international manu-

facturers, MICRO-TECH more than meets the requirements with its innovative solutions. Rely on the utmost in quality and optimum positional stability.



Self-expanding stents.

Every stent from the MICRO-TECH range is manufactured using highquality Nitinol wire. The "thermal memory effect" of Nitinol causes the released stent to unfold into its predetermined dimensions at body temperature. It therefore adapts to the anatomy and achieves the desired dilation of the stenosis in an optimum manner.

Simple to release.

In order to make release of the stent as easy as possible for you, the stents are preloaded on an introducer. The system can be manipulated intuitively and effortlessly. With some stents you even have the opportunity to correct the positioning of the stent during the implantation in case its being placed too low.

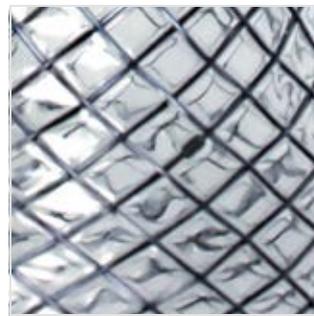


Manufactured from one wire.

MICRO-TECH Nitinol stents are - with the exception of the segmented stent - braided from one single wire. Therefore the risk of a stent fracture at connecting loops is almost impossible.

Precise positioning via X-ray markings.

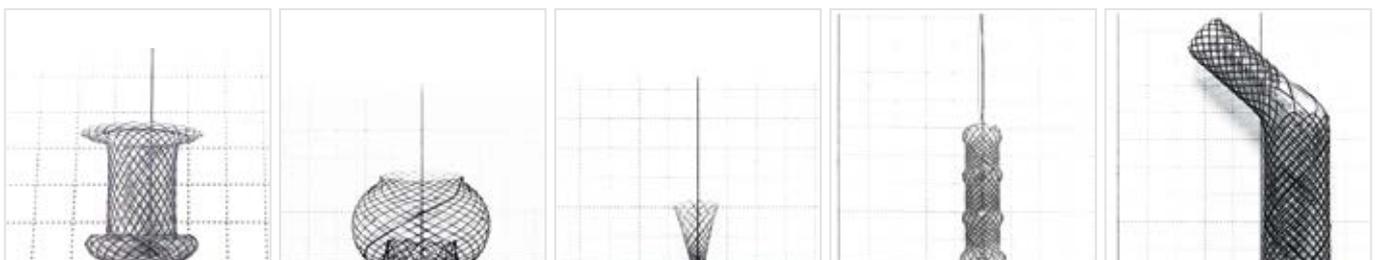
In order to allow you to position the stent precisely, additional X-ray markings are provided on the introducer and the stent, which can be easily distinguished under X-ray fluoroscopy. The excellent overall radiopacity of the stents further reinforces this effect.



X-ray markings

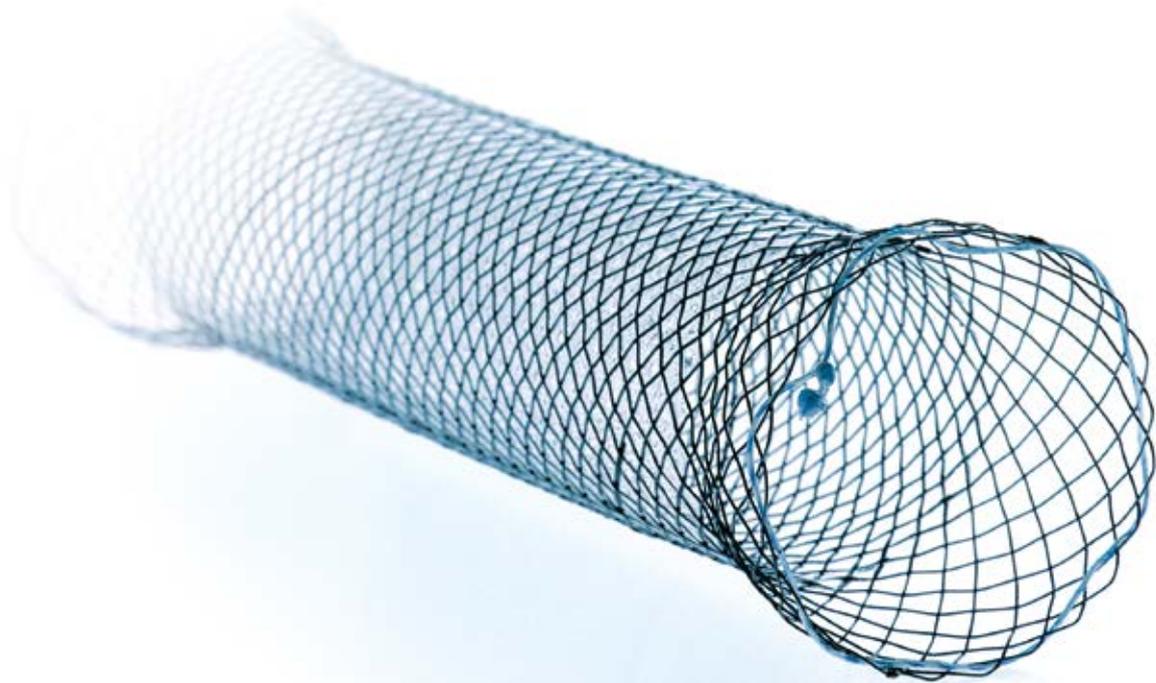
Special sizes and patient-made stents.

MICRO-TECH also supplies you with stents in special sizes in addition to stents in standard sizes. MICRO-TECH is the only manufacturer in the world to also develop individual productions specially adapted to your patients' anatomical requirements. The delivery usually only takes 10 working days.



Examples for patient-made-stents





Oesophagus stents.

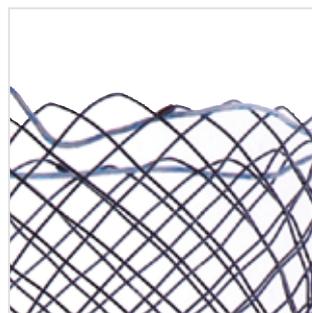
Highest quality for every indication.

MICRO-TECH provides you with a comprehensive selection of self-expanding stents for bypassing oesophageal stenoses. The stents are characterised by very high flexibility and are available with and without

covering. The working diameter of the stent is 20, 24 or 28 mm; as regards the lengths, models of between 60 and 140 mm are available. The optimum solution is therefore always at hand for every indication.

Specific characteristics:

- self-expanding
- Nitinol mesh with atraumatic ends
- excellent positional stability
- high radial force
- resistant and elastic covering
- fully covered stents available
- Parylene coated
- high radiopacity
- extraction threads for removal and repositioning
- guide wire-compatible up to 0.035 inches

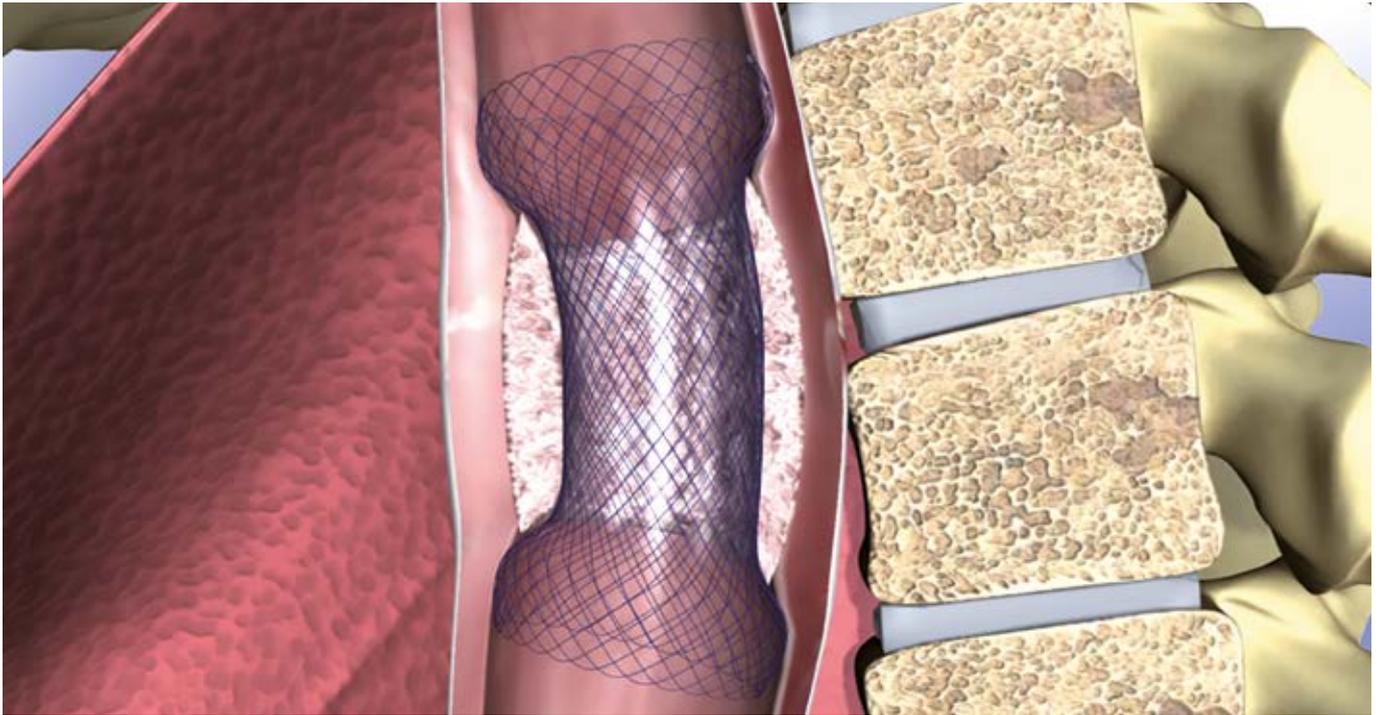


X-ray markings



Extraction thread





Successful in practical use.

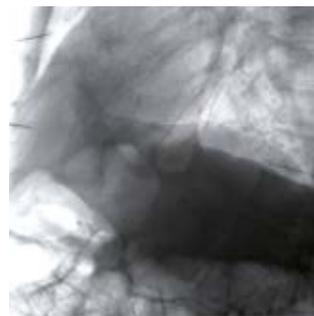
The MICRO-TECH oesophagus stent has already proved its worth thousands of times in practice owing to its reliability, positional stability, excellent handling and the wide selection of lengths.

The stent adapts to the oesophageal wall in the best possible manner thanks to its atraumatic shape and high radial force. Furthermore, the stent possesses excellent radiopacity and can be positioned with good visibility and precision at significant points with the aid of the additional X-ray markings.

X-ray markings on the introducer indicate the ultimate position of the completely opened stent and assist its precise placement.



View of the proximal tulip



Released under X-ray



Control with contrast medium



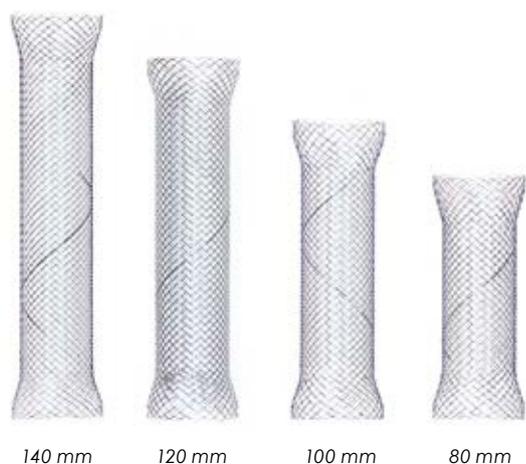
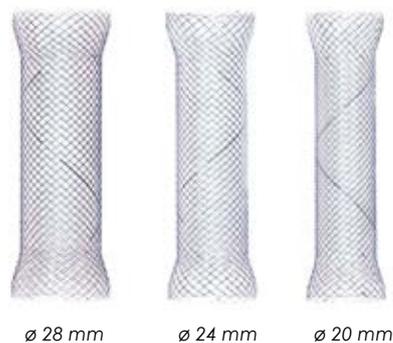
Positionally stable stent design.

The oesophagus stent is extremely positionally stable. Its self-expanding Nitinol wire adapts itself perfectly to the patient's anatomy and the atraumatic ends ensure a maximum hold.



Diameters of between 20 and 28 mm.

MICRO-TECH always offers you the appropriate solution with the oesophagus stent in three different diameters: 20, 24 or 28 mm in the central section. The stent end is 6 mm wider in each case.

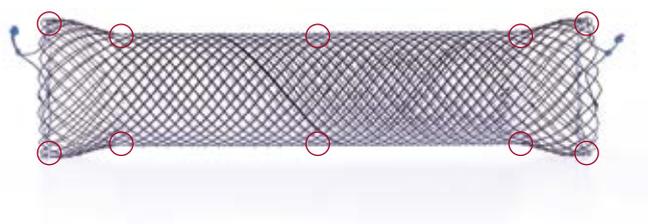


Numerous standard lengths.

Depending on the length of the site to be bypassed, you can resort to one of five standard lengths: short stents measuring 60 and 80 mm, medium lengths of 100 and 120 mm and long versions of 140 mm.

Radiopaque markers for secure insertion of stents.

All of our esophagus stents is equipped with up to 10 radiopaque markers. They are clearly visible under radiological control and thus enable a secure and precise stent release.



10 X-ray markers on all significant positions

With and without covering.

Depending on the model, the stents have a protective covering. Choose between a complete covering from one stent end to the other, a partial covering in which the ends remain free and a cover-free stent.

Introducer for precise release.

All stents are preloaded on the easy-to-manipulate introducer, which allows rapid and precise stent release. The system also allows you to still bring the stent into the desired position in the oral direction during release.



REF	Ø centre mm	Ø end mm	Length mm	Covering mm
Stents without covering				
ST01-101.20.080	20	26	80	without
ST01-101.20.100	20	26	100	without
ST01-101.20.120	20	26	120	without
ST01-101.20.140	20	26	140	without
ST01-101.24.080	24	30	80	without
ST01-101.24.100	24	30	100	without
ST01-101.24.120	24	30	120	without
ST01-101.24.140	24	30	140	without
Stents with partial covering				
ST01-102.20.060	20	26	60	30
ST01-102.20.080	20	26	80	50
ST01-102.20.100	20	26	100	70
ST01-102.20.120	20	26	120	90
ST01-102.20.140	20	26	140	110
ST01-102.24.080	24	30	80	50
ST01-102.24.100	24	30	100	70
ST01-102.24.120	24	30	120	90
ST01-102.24.140	24	30	140	110
Stents with end-to-end covering				
ST01-103.20.060	20	26	60	60
ST01-103.20.080	20	26	80	80
ST01-103.20.100	20	26	100	100
ST01-103.20.120	20	26	120	120
ST01-103.20.140	20	26	140	140
ST01-103.24.060	24	30	60	60
ST01-103.24.080	24	30	80	80
ST01-103.24.100	24	30	100	100
ST01-103.24.120	24	30	120	120
ST01-103.24.140	24	30	140	140
ST01-103.28.100	28	34	100	100
ST01-103.28.120	28	34	120	120

	Ø mm/fr.	Length mm	Guide wire	RM ^{*1}	IC ^{*2}	Lock ^{*3}
Introducer system	8/24	700	0.035 inch	2	yes	yes

Recommended guide wire: GW11-207.035.260

*1 RM – radiopaque markings / *2 IC – irrigation channel / *3 Lock – secures the introducer system during storage, transportation and introduction

Also as a special size or individual stent





AccuraSIS®.

The revolutionary introducer system: Retrievable after 100% stent release.

An exact positioning of the stent is of greatest importance to ensure successful therapy. With its new generation of introducer systems, MICRO-TECH now sets new standards for highest precision. AccuraSIS® stands for "Accurate Stent Introducer System" and

enables a yet more exact and safe stent release. Via its innovative system the stent can completely be opened and resealed up to the proximal end. Thus, an exact positioning and release is possible.

Specific characteristics:

- precise and safe stent placement
- integrated dilatation balloon
- easy handling
- enormous positioning stability
- ergonomically shaped handles
- stable stainless steel tension rod
- radiopaque olive tip, easily introducible
- minimum length reduction
- extreme flexibility of the introducer system
- 10 radiopaque markers
- calibration in cm on the metal coil



Handle with ergonomical design



Optimized olive tip for easy insertion



Ergonomic precision design.

The system can be comfortably handled owing to the optimized design of the handles. The new designed radiopaque olive tip is shaped in such a manner that it is ideally flush with the introducer catheter and safely harbors the pre-mounted stent inside the introducer catheter.

Integrated dilatation balloon.

The in-built dilatation balloon measuring 14 mm in diameter additionally supports the expansion of the stent and can also be used for the purpose of pre-dilatating the stenosis. It also facilitates the removal of the introducer system in cases of very narrow strictures in which the olive would otherwise result in the dislocation of the stent or the examiner would have to accept a prolonged waiting period to safely remove the EFB.

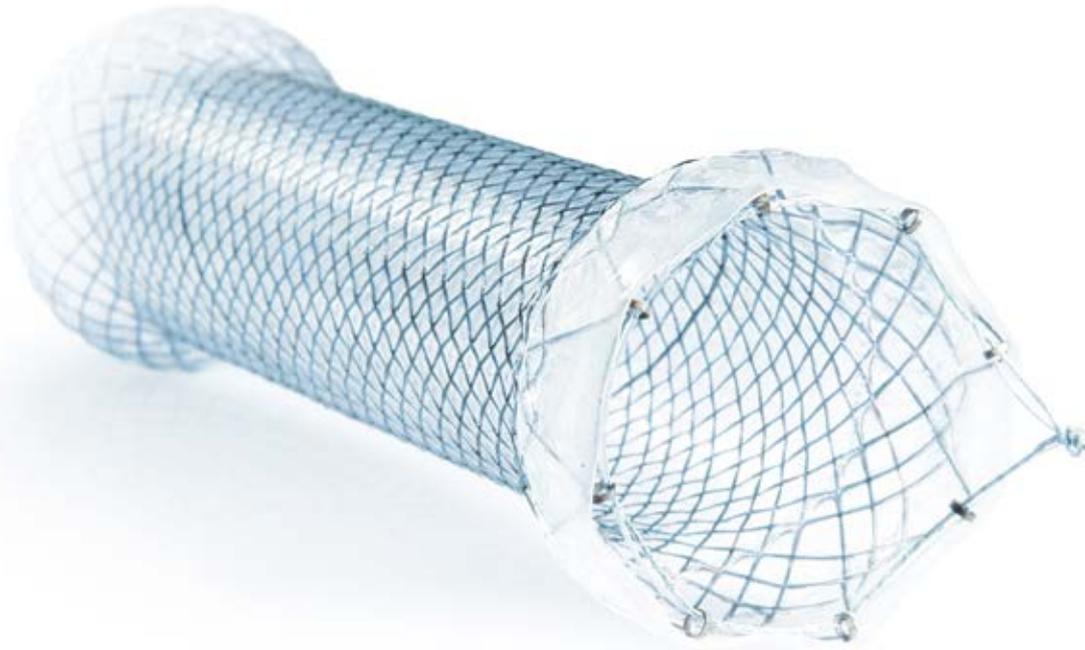


REF	Centre/end Ø mm	Length mm	RM* Stent/RM* Introducer system
Introducer system, partial silikon covering			
ST11-102.20.080	20/26	80	10 / 2
ST11-102.20.100	20/26	100	10 / 2
ST11-102.20.120	20/26	120	10 / 2
ST11-102.20.140	20/26	140	10 / 2
ST11-102.24.080	24/30	80	10 / 2
ST11-102.24.100	24/30	100	10 / 2
ST11-102.24.120	24/30	120	10 / 2
ST11-102.24.140	24/30	140	10 / 2
Introducer system, complete silikon covering			
ST11-103.20.080	20/26	80	10 / 2
ST11-103.20.100	20/26	100	10 / 2
ST11-103.20.120	20/26	120	10 / 2
ST11-103.20.140	20/26	140	10 / 2
ST11-103.24.080	24/30	80	10 / 2
ST11-103.24.100	24/30	100	10 / 2
ST11-103.24.120	24/30	120	10 / 2
ST11-103.24.140	24/30	140	10 / 2
ST11-103.28.100	28/34	100	10 / 2
ST11-103.28.120	28/34	120	10 / 2

Recommended guide wire: GW11-207.035.260 / Outer diameter of the integrated dilatation balloon: 14 mm / Guide wire extractabler 0.035 inch-GW / Introduction-system 24 Fr/8 mm

*RM – radiopaque markings





Softcup oesophagus stent.

Increased comfort for patients with high-seated stenoses.

High-seated oesophageal stenoses place special demands on the stent. Unpleasant irritative stress results for the patient owing to stent positioning in this extremely sensitive area just under the pharynx. The Softcup oesophagus stent from MICRO-TECH is equipped with a particularly soft proximal stent end, which makes the stent as pleasant as possible for the patient. In order

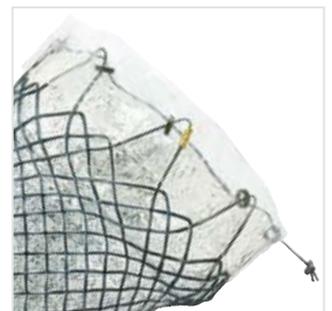
to perform positioning of the stent as precisely as possible, the stent is preloaded on the high-precision PRODIS introducer. This guarantees reliable release and simultaneously leaves the choice open to the user as to whether the stent should be released from the proximal towards the distal position (PROximal release) or from the distal towards the proximal position (DIStal release).

Specific characteristics:

- Nitinol mesh with atraumatic ends
- proximal Softcup design
- excellent positional stability, high radial force
- resistant and elastic covering
- complete covering
- high radiopacity
- extraction threads for removal and repositioning
- PRODIS introducer
- ire-compatible up to 0.035 inches



X-ray markings



Extraction thread



Successful in practical use.

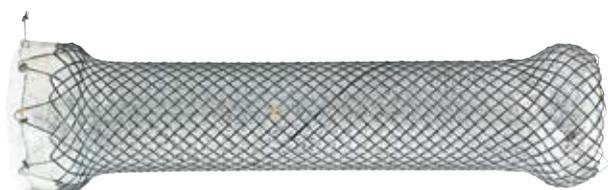
The Softcup oesophagus stent is completely covered and reduces the irritative stress for the patient with its particularly soft short proximal tulip and complete covering. Its special design and the high radial force render the stent extremely positionally stable and guarantees a very snug fit on the oesophageal wall. The good radiopacity and additional X-ray markings at significant points also facilitate orientation during stent placement.



View into the released stent



Released stent



Maximum hold, maximum comfort.

The special design of the Softcup oesophagus stent ensures excellent positional stability and is gentle on the patient at the same time: the soft end reduces the unpleasant sensation of carrying a foreign body in the oesophagus and enables a high proximal positioning.

REF	Ø centre mm	Ø end mm	Length mm	Covering mm	End design		
					proximal	distal	
Stents with end-to-end covering							
ST01-156.20.100	20	26	100	100	softcup	spherical	
ST01-156.24.100	24	30	100	100	softcup	spherical	
		Ø mm/fr.	Length mm	Guide wire	RM ^{*1}	IC ^{*2}	Lock ^{*3}
Introducer system							
PRODIS		8/24	700	0.035 inch	2	yes	yes

Recommended guide wire: GW11-207.035.260

*1 RM – radiopaque markings / *2 IC – irrigation channel / *3 Lock – secures the introducer system during storage, transportation and introduction

Also as a special size or individual stent





Segmented stent.

Flexibility redefined.

This oesophagus stent with segmented design maximizes flexibility and adaptability when stenting stenoses and leakages. In contrast to conventional one-piece stents, this design comprises several segments that are independently mobile. This enables the stent to adapt perfectly to both anatomy and peristalsis and

ensures maximum positional stability. All segmented stents have a double full-cover and two extraction threads for a safe removal and repositioning of the stents. By the segmentation the stent loses at no time the defined lumen.

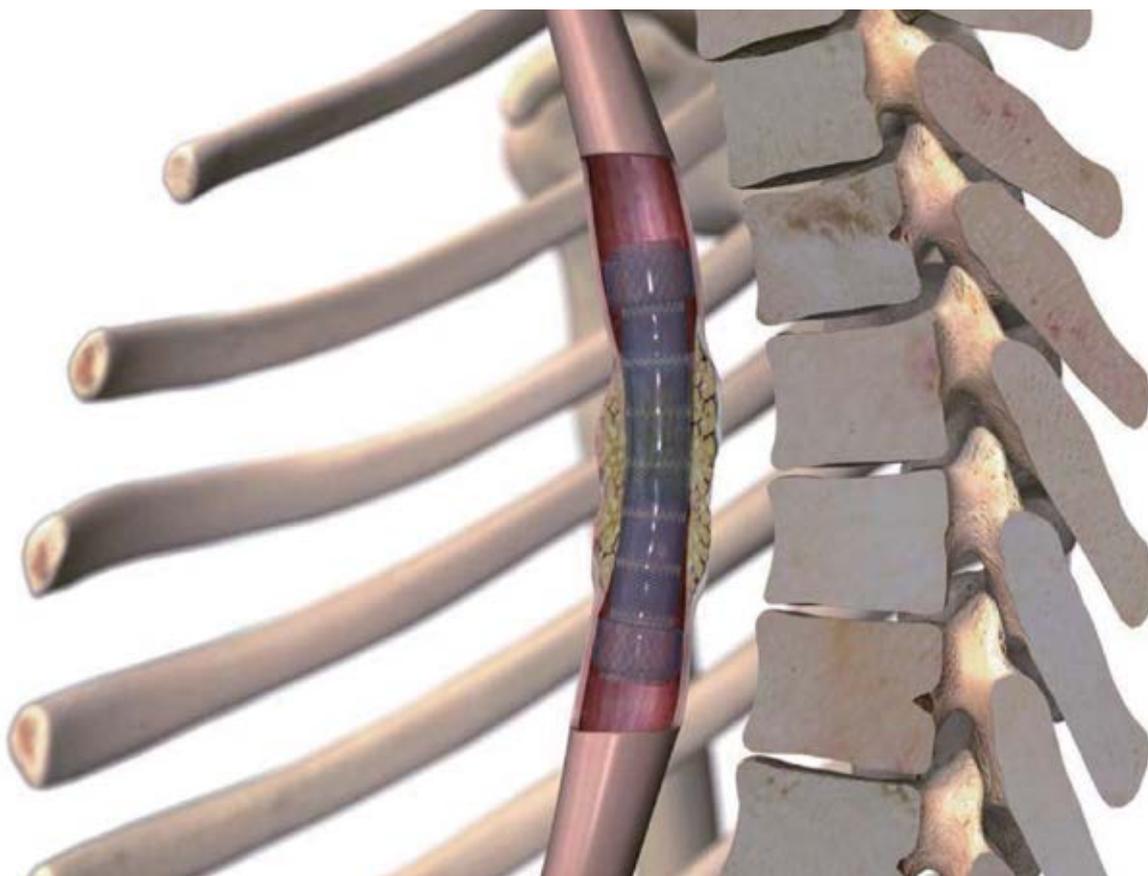
Specific characteristics:

- segmented stent design
- self-expanding nitinol fabric
- high level of radial force and positional stability
- robust, elastic covering
- guide wire passage up to 0.035 inches



Stent with eight segments





REF	Ø centre mm	Length mm	Covering mm
Segmented stent			
ST71-224-18.060	18	60	with covering, double-cup
ST71-224-18.080	18	80	with covering, double-cup
ST71-224-18.100	18	100	with covering, double-cup
ST71-224-18.120	18	120	with covering, double-cup
ST71-224-18.140	18	140	with covering, double-cup
ST71-224-22.060	22	60	with covering, double-cup
ST71-224-22.080	22	80	with covering, double-cup
ST71-224-22.100	22	100	with covering, double-cup
ST71-224-22.120	22	120	with covering, double-cup
ST71-224-22.140	22	140	with covering, double-cup

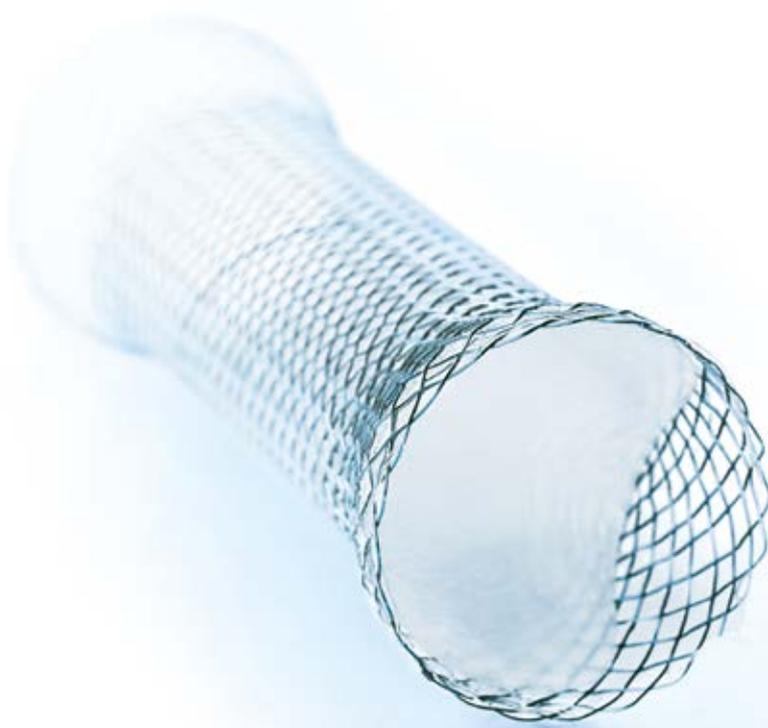
	Ø mm/fr.	Length mm	Guide wire	RM ^{*1}	IC ^{*2}	Lock ^{*3}
Introducer system	8/24	650	0,035 inch	2	yes	yes

Recommended guide wire: GW11-207.035.260

*1 RM – radiopaque markings / *2 IC – irrigation channel / *3 Lock – secures the introducer system during storage, transportation and introduction

Also as a special size or individual stent





Cardia-Valve-Stent.

The effective solution against reflux.

Bypass of the cardia with a stent results in gastro-oesophageal reflux. In order to prevent the latter and thereby minimise the risk of bronchopulmonary aspirations, the Cardia-Valve-Stent from MICRO-TECH is equipped with a unique valve system. The revolutionary aspect of the valve is its 2-way function which imitates the human protective mechanism perfectly.

On the one hand, it allows food and liquids to enter the stomach unimpeded and reliably prevents reflux. On the other, it opens in the oral direction in case of excessive pressure. The patient can therefore obtain relief by vomiting in spite of the valve. The valve is particularly flexible and, at the same time, highly resistant to gastric acid.

Specific characteristics:

- innovative 2-way valve system
- self-expanding
- Nitinol mesh with atraumatic ends
- excellent positional stability
- high radial force
- resistant and elastic covering
- high radiopacity
- extraction threads for removal and repositioning
- guide wire-compatible up to 0.035 inches



X-ray markings



Anti-reflux valve

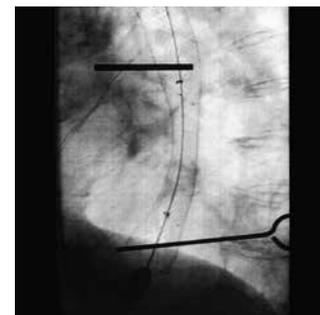


Successful in practical use.

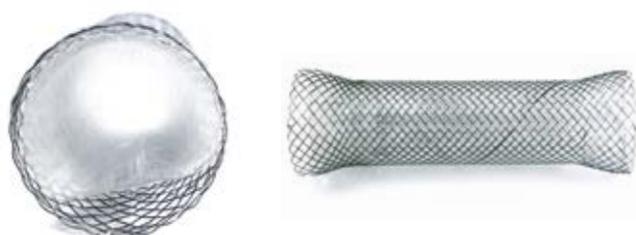
Up to now, use of anti-reflux stents, which are intended to prevent unimpeded reflux, have been controversial. With the Cardia-Valve-Stent, MICRO-TECH is offering a solution that almost perfectly imitates the natural closing mechanism. The 2-way valve, which is flat at the distal end of the stent endeavours to achieve the functional opening and closing of the sphincter.



View of the proximal tulip



Released under X-ray



Innovative stent design.

In addition to the unique 2-way valve system, the Cardia-Valve-Stent possesses a series of features that makes it very safe. The reliable covering for instance, which is available in different versions: partially covered, without covering at the proximal end and completely covered.

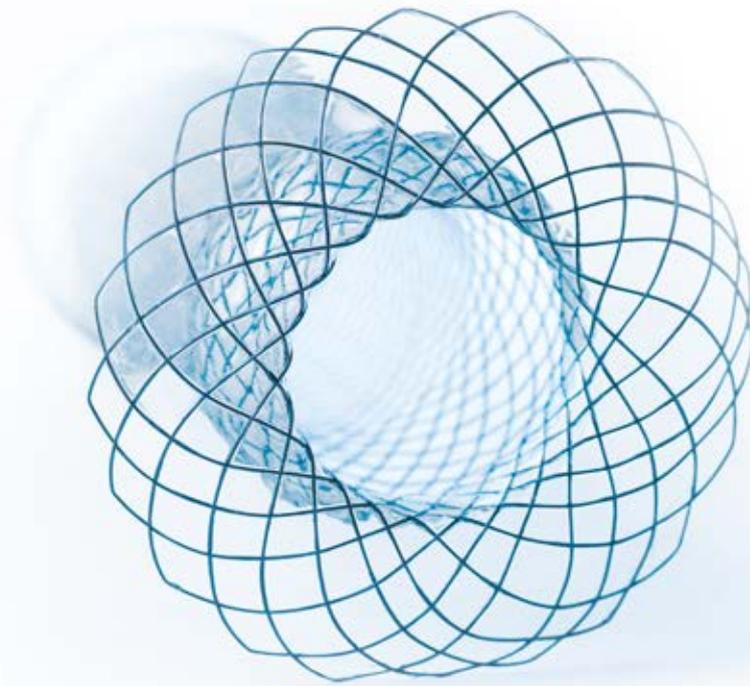
REF	Ø centre mm	Ø end mm	Length mm	Covering mm	Anti-reflux valve	
Stents with partial covering						
ST01-111.20.100	20	26	100	85	distal	
ST01-111.20.120	20	26	120	105	distal	
ST01-111.24.100	24	26	100	85	distal	
ST01-111.24.120	24	26	120	105	distal	
Stents with end-to-end covering						
ST01-112.20.100	20	26	100	100	distal	
ST01-112.24.080	24	30	100	100	distal	
ST01-112.24.100	24	26	100	100	distal	
	Ø mm/fr.	Length mm	Guide wire	RM ^{*1}	IC ^{*2}	Lock ^{*3}
Introducer system						
	8.5/25	700	0.035 inch	2	yes	yes

Recommended guide wire: GW11-207.035.260

*1 RM – radiopaque markings / *2 IC – irrigation channel / *3 Lock – secures the introducer system during storage, transportation and introduction

Also as a special size or individual stent





Cardia-Umbrella-Stent.

For a perfect hold in the cardia area.

The Cardia-Umbrella-Stent by MICRO-TECH is a specially designed stent perfectly tailored to the challenging anatomical diagnosis of the cardia. Its unique design gives the stent extremely high positional stability and prevents its migration in both the gastric and oral directions. The special feature here is the fact that the lower oesophageal sphincter lies between the

bulbous section and the distal end of the stent which is shaped like an opened umbrella. Furthermore, the stent does not protrude into the stomach as a result of this umbrella-shaped design, ending directly behind the oesophageal gastric junction. The risk of pressure necrosis is thus markedly reduced and any potential patient discomfort is decreased.

Specific characteristics:

- unique umbrella design
- self-expanding
- Nitinol mesh with atraumatic ends
- excellent positional stability
- high radial force
- resistant and elastic covering
- fully covered stents available
- high radiopacity
- extraction threads for removal and repositioning
- guide wire-compatible up to 0.035 inches

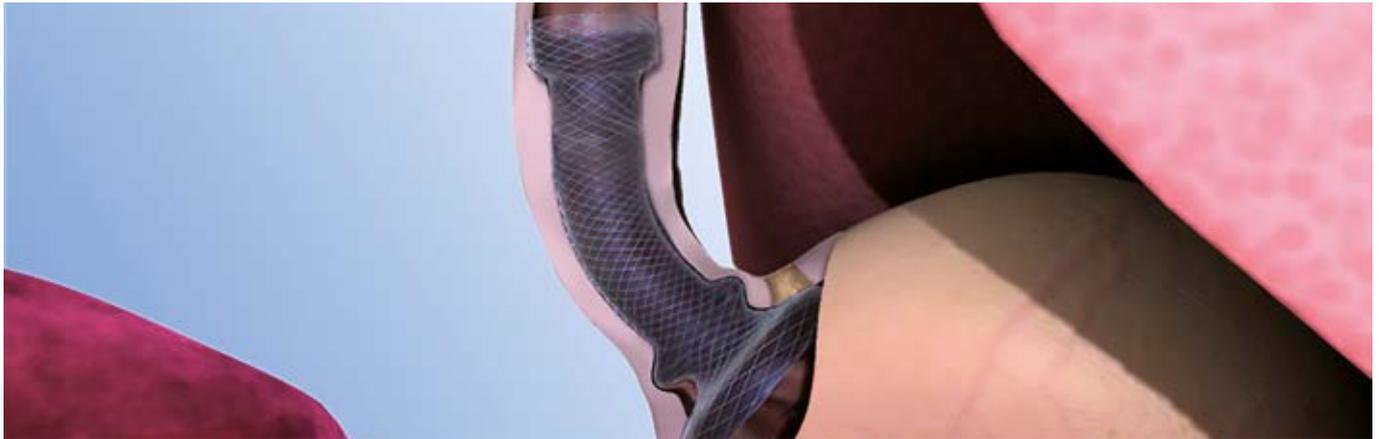


X-ray markings



Extraction thread





Successful in practical use.

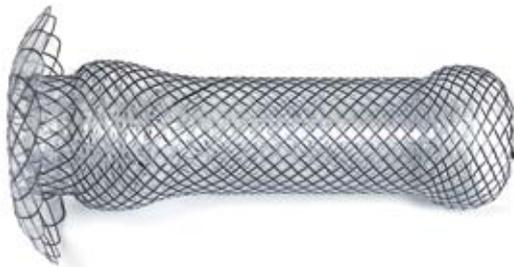
The inverse view from the stomach of the distal end of the stent shows how the umbrella end clings to the gastric mucosa directly behind the cardia without protruding into the stomach. From the perspective of the oesophagus into the stent, the bulge before the cardia and the shaping of the stent in the area of the cardia can be clearly distinguished. Both guarantee excellent positional stability for the stent.



View of the umbrella end (stomach)



View into the released stent (oesophagus)



Keeps its promises.

Together with the high radial force, the spherical proximal end and the complete covering, the innovative umbrella design guarantees ideal hold in the area of the cardia. Radiopaque markers in prominent positions ease the placement of the stent under radiological view.

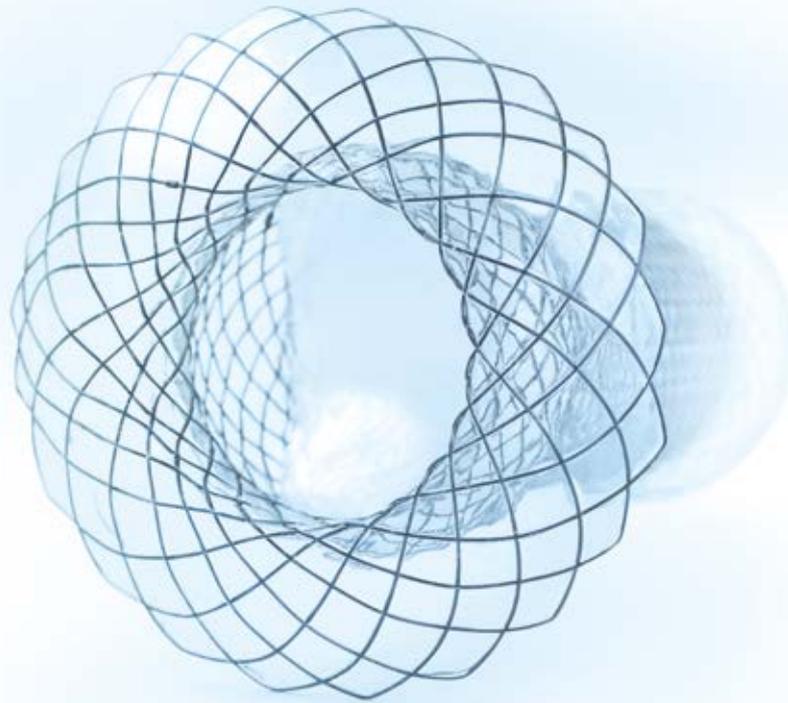
REF	Ø centre mm	Ø end prox./bulge/ end dist. mm	Length mm	Covering mm	End design		
					proximal	distal	
Stents with partial covering							
ST01-108.24.100	24	30/30/50	100	85	spherical	umbrella	
ST01-108.24.120	24	30/30/50	120	105	spherical	umbrella	
Stents with end-to-end covering							
ST01-109.24.100	24	30/30/50	100	100	spherical	umbrella	
ST01-109.24.120	24	30/30/50	120	120	spherical	umbrella	
		Ø mm/fr.	Length mm	Guide wire	RM ^{*1}	IC ^{*2}	Lock ^{*3}
Introducer system		8.5/25	700	0.035 inch	2	yes	yes

Recommended guide wire: GW11-207.035.260

*1 RM – radiopaque markings / *2 IC – irrigation channel / *3 Lock – secures the introducer system during storage, transportation and introduction

Also as a special size or individual stent





Umbrella-Valve-Stent.

The ultimate solution for perfect hold and against reflux.

With the Umbrella-Valve-Stent, MICRO-TECH combines perfect hold with effective protection against reflux. Its innovative design prevents stent migration and avoids development of pressure necroses in the stomach. For even greater patient comfort, the stent is also equipped with the unique 2-way valve system from

MICRO-TECH. Liquids and foods reach the stomach unimpeded through the latter and reflux is reliably prevented. If the pressure becomes excessive however, the valve opens in the oral direction and the patient can therefore vomit.

Specific characteristics:

- unique umbrella design
- innovative 2-way valve system
- self-expanding
- Nitinol mesh with atraumatic ends
- excellent positional stability
- high radial force
- resistant and elastic covering
- fully covered stents available
- high radiopacity
- extraction threads for removal and repositioning
- guide wire-compatible up to 0.035 inches



X-ray markings

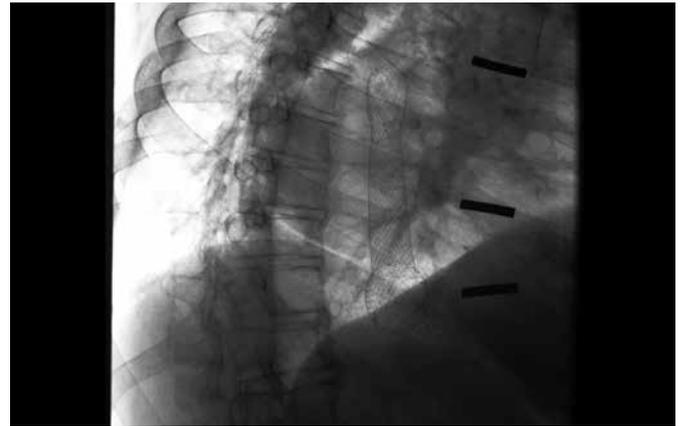


Valve



Successful in practical use.

Like every stent from MICRO-TECH, the Umbrella-Valve-Stent is characterised by excellent radiopacity which renders release of the stent easier from a radiological standpoint. Additional X-ray markings at significant points on the stent facilitate orientation and assist precise placement of the stent.



Released stent



Top form design.

The unique umbrella design prevents migration of the stent in the oral and gastric directions. Its flush fit in the area of the cardia eliminates the possibility of protruding into the stomach, which prevents development of pressure necrosis to a great extent.

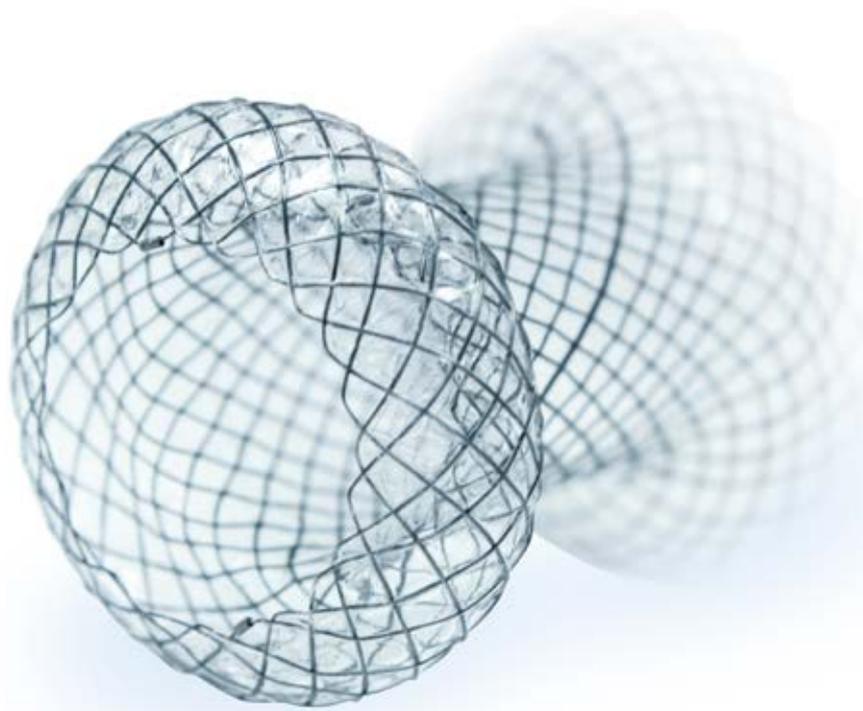
REF	Ø centre mm	Ø end prox./bulge/ end dist. mm	Length mm	Covering mm	End design		
					proximal	distal	
Stents with end-to-end covering							
ST01-115.24.080	24	30/30/50	80	80	spherical	umbrella anti-reflux-valve	
ST01-115.24.100	24	30/30/50	100	100	spherical	umbrella anti-reflux-valve	
		Ø mm/fr.	Length mm	Guide wire	RM ^{*1}	IC ^{*2}	Lock ^{*3}
Introducer system		8,5/25	700	0.035 inch	2	yes	yes

Recommended guide wire: GW11-207.035.260

*1 RM – radiopaque markings / *2 IC – irrigation channel / *3 Lock – secures the introducer system during storage, transportation and introduction

Also as a special size or individual stent





Pseudocyst stent.

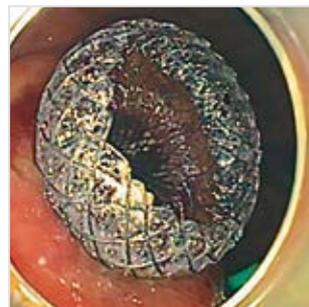
Secure hold for reliable drainages.

The Pancreas pseudocyst stent is used for reliable drainage of endoscopic removal of concrement. The design of the stent with its distal umbrella form and proximal tulip causes that during an eventual migration only a dislocation into the stomach occurs and not into the cyst. By the large diameter of 16 mm in the middle of the stent it is possible to remove concre-

ment endoscopically. The 10.5 French TTS (through-the-scope) insertion system is brought into position through the working channel of the endoscope with the aid of a guide wire. When the stent is released, 4 radiopaque markers at each end of the stent ensure excellent identification on radiological images.

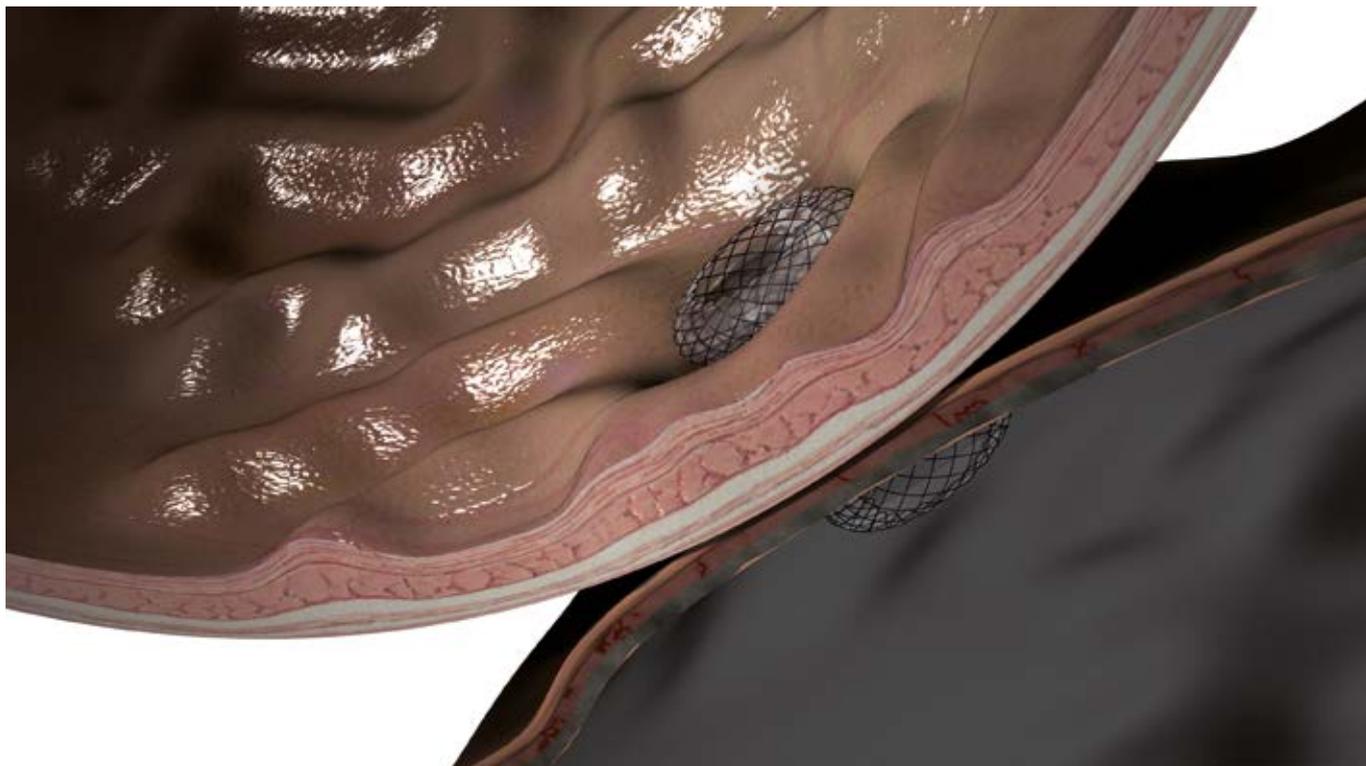
Specific characteristics:

- stent with complete silicone covering
- high degree of positional stability
- atraumatic tips
- high level of radial force
- tantalum radiomarkers
- TTS insertion system
- guide wire passage up to 0.035 inches



Transgastric access from stomach into pseudocyst





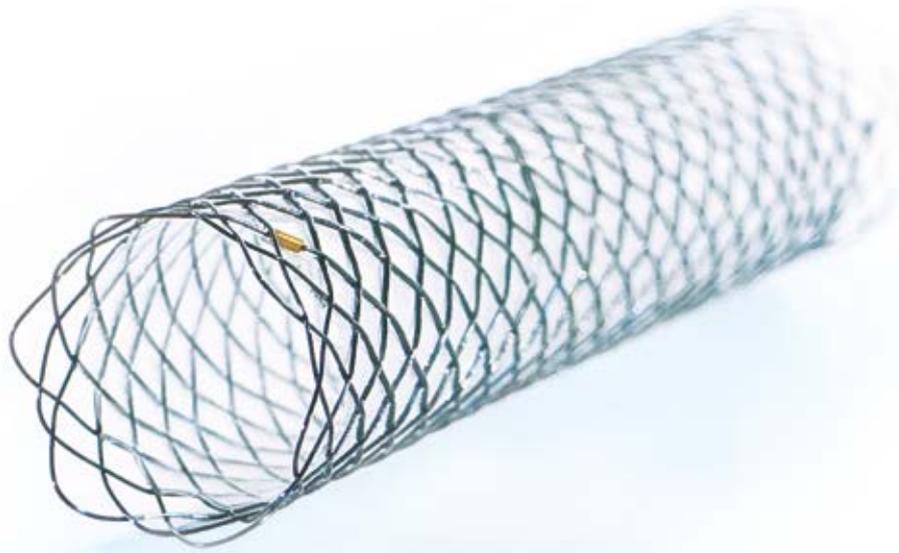
REF	Ø centre mm	Ø end mm	Total length mm	Covering mm	End design proximal	End design distal	System length mm	System Ø mm
Pseudozysten-Stent								
ST33-103.16.020	16	26	20	20	mushroom	umbrella	1800	3.5 (=10.5F)
ST33-103.16.030	16	26	30	30	mushroom	umbrella	1800	3.5 (=10.5F)
		Ø mm/fr.	Length mm	Guide wire	RM ^{*1}	IC ^{*2}	Lock ^{*3}	
Introducer system		3.5/10.5	1800	0.035 inch	2	yes	yes	

Recommended guide wire: GW11-207.035.260

*1 RM – radiopaque markings / *2 IC – irrigation channel / *3 Lock – secures the introducer system during storage, transportation and introduction

Also as a special size or individual stent





Biliary duct stents.

Always the ideal solution.

With the biliary stents manufactured by MICRO-TECH you will always make the ideal choice to bridge-graft biliary duct stenoses. The high expansion force of the Nitinol wire mesh accounts for an excellent positional stability. The resistant cover prevents the stent from

growing into the tissue. The product range comprises two stent lines and offers a first-class solution that suits all requirements: the classic line and the platinum line. The comprehensive platinum line is especially distinguished by its extraordinary high radiopacity.

Specific characteristics:

- self-expanding
- available for TTS and PTCD
- Classic- und Platinum-Line
- Nitinol wire mesh with atraumatic ends
- release under visual endoscopic control
- enormous position stability
- resistant and elastic cover
- high radiopacity
- guiding wire passable to a maximum of 0.035 inches



X-ray markings





Removal of the introducer



Endoscopic positional control



Released stent

Classic-Line. First-choice for all applications.

The Classic-Line is perfectly suited for all standard interventions. With two different approaches consisting of TTS and PTC, it perfectly meets all requirements. All stents are made of highly flexible Nitinol wire mesh. Ten additional radiopaque markers account for the good visibility of our Classic-Line stents under fluoroscopy. The product range comprises stents partially covered or uncovered.

PTCD for percutaneous access.

In case of therapeutic interventions into the biliary duct, it sometimes occurs that a transpapillary access cannot be accomplished. In such cases MICRO-TECH offers PTC systems (percutaneous transhepatic cholangio drainage) as the ideal solution.

TTS stents for routine interventions.

We offer uncovered as well as partially covered biliary duct stents in three different lengths. All stents can be placed through the working channel of the duodenoscope over the inserted guide wire (TTS – through-the-scope).

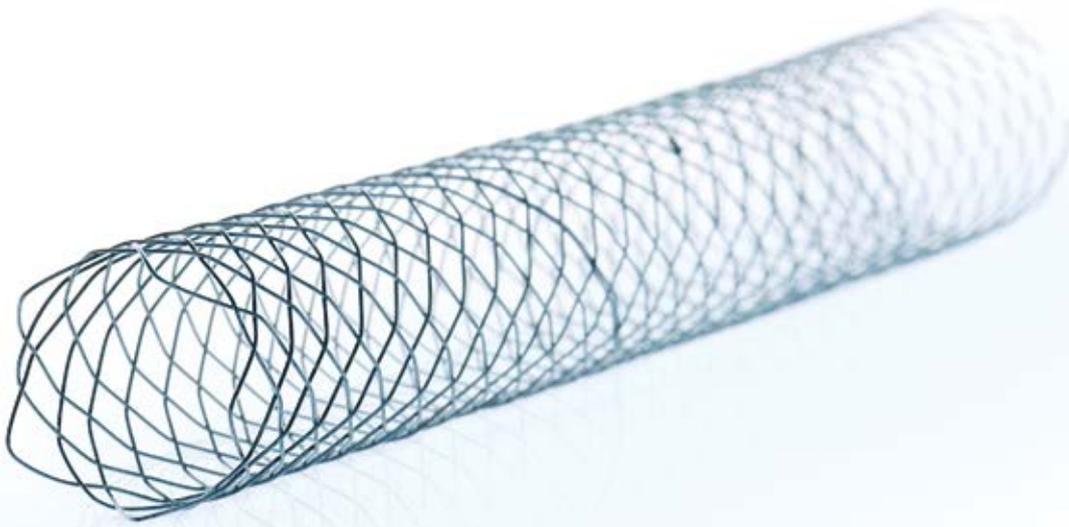
Introducer system for an exact release.

Additional radiopaque markers on the distal end of the introducer system and on the tip of the pusher catheter provide for additional orientation. In the endoscopic image, the tip of the pusher catheter can be unambiguously and easily distinguished from the proximal end of the stent. The permanent visual endoscopic control of the stent's proximal end considerably facilitates the exact release of the stent.

Ten platinum radiopaque markers.

In order to achieve an improved visibility under X-ray control each stent disposes of a total of ten radiopaque markers: four radiopaque markers are located at each end, and two in the middle of the stent. The two radiopaque markers in the middle guarantee for the controllability of the stent's optimal position while being put in place.





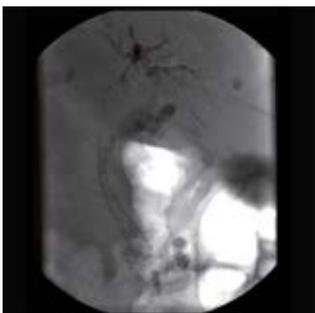
Platinum-Line. Perfect visibility for highest precision.

With its Platinum-Line, MICRO-TECH heralds a new generation of biliary duct stents. Under X-ray control, they are better visible than ever before, making their release even more safe and precise. The secret of their extremely good visibility lies in the specially de-

veloped Nitinol wire. Its special radiopacity makes the platinum stents virtually glow in X-ray images. This accounts for an extremely good visibility of the stent over its entire length under fluoroscopy.

Unchallenged: visibility under X-ray control.

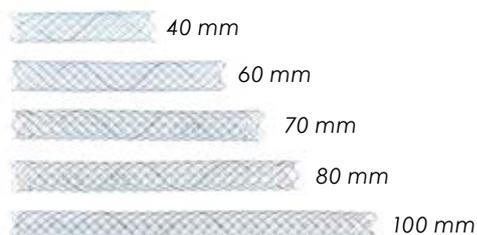
Apart from the innovative Nitinol wire, each stent of the Platinum-Line is distinguished by two additional radiopaque markers which are located in the middle of the stent. This enables pinpointing the exact position of the stent's center line while the stent is being released. Additional radiopaque markers on the introducer system also facilitate orientation.



Released Platinum-Line stent

The right choice, whether short or long.

The biliary stents from MICRO-TECH are 10 mm wide throughout and differ in length according to the indication: a choice of five lengths is available, namely 40, 60, 70, 80 and 100 mm.



REF	Ø centre mm	Ø end mm	Length mm	Covering mm
Classic-Line TTS				
ST03-101.10.040	10	10	40	without
ST03-101.10.060	10	10	60	without
ST03-101.10.080	10	10	80	without
ST03-101.10.100	10	10	100	without
ST03-102.10.060	10	10	60	50
ST03-102.10.080	10	10	80	70
ST03-102.10.100	10	10	100	90
Classic-Line PTCD				
ST03-111.10.060	10	10	60	without
ST03-111.10.080	10	10	80	without
ST03-112.10.060	10	10	60	50
ST03-112.10.080	10	10	80	70
Platinum-Line TTS				
ST03-104.10.040	10	10	40	without
ST03-104.10.060	10	10	60	without
ST03-104.10.080	10	10	80	without
ST03-104.10.100	10	10	100	without
ST03-105.10.040	10	10	40	30
ST03-105.10.060	10	10	60	50
ST03-105.10.080	10	10	80	70
ST03-105.10.100	10	10	100	90
ST03-106.10.040	10	10	40	40
ST03-106.10.060	10	10	60	60
ST03-106.10.080	10	10	80	80
Platinum-Line TTS, extended ends, extraction threads pre-papillary				
ST03-126.10.040	10	10	40	30
ST03-126.10.060	10	10	60	50
ST03-126.10.080	10	10	80	70
ST03-127.10.040	10	10	40	40
ST03-127.10.060	10	10	60	60
ST03-127.10.070	10	10	70	70
ST03-127.10.080	10	10	80	80

	Ø mm/fr.	Length mm	Guide wire	RM ^{*1}	IC ^{*2}	Lock ^{*3}
Introducer system						
ST03-101... (TTS)	2.7/8	1,800	0.035 inch	2	yes	yes
ST03-102 + 103... (TTS)	3.0/9	1,800	0.035 inch	2	yes	yes
ST03-111... (PTCD)	2.7/8	500	0.035 inch	2	yes	yes
ST03-112... (PTCD)	2.8/8.5	500	0.035 inch	2	yes	yes
ST03-126... (TTS)	3.0/9	1,800	0.035 inch	2	yes	yes
ST03-127... (TTS)	3.3/10	1,800	0.035 inch	2	yes	yes

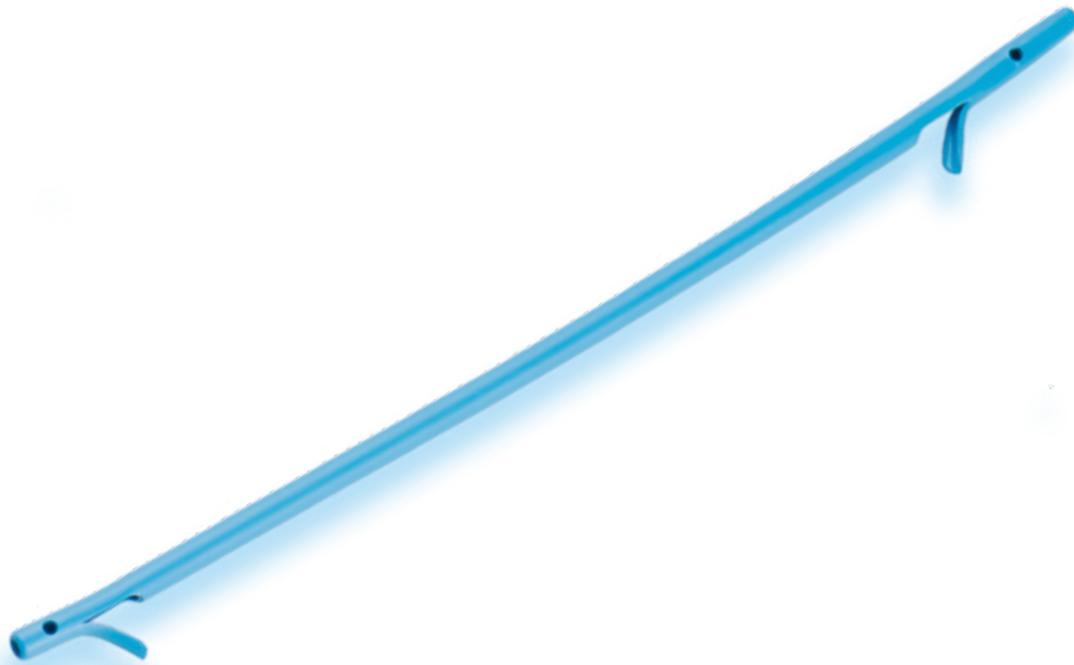
Recommended guide wire (TTS): GW11-225.035.450 Alternative: GW11-222.035.450 with a longer tip

Recommended guide wire (Perkutan): GW11-225.035.260

*1 RM – radiopaque markings / *2 IC – irrigation channel / *3 Lock – secures the introducer system during storage, transportation and introduction

Also as a special size or individual stent





Plastic bile duct stents.

Maximum drainage, maximum hold.

MICRO-TECH offers a comprehensive range of plastic stents for short and medium-term drainage in the bile duct. The stents are available in different shapes, lengths and diameters. Thus, the ideal stent is available for each indication. The high-quality PE-/PTFE-material of the stents ensures reliable drainage and

adapts optimally to the anatomy of the patient. Flaps at the ends of the stents also ensure a secure hold with minimal migration. For rapid and safe implantation, the stents are available both individually and on pre-loaded systems. In addition, MICRO-TECH also offers introduction-systems in all relevant sizes.

Special features:

- Different shapes: straight, curved, angled, pigtail, double-pigtail and christmas tree
- Optimum flow rate
- Ideal adaptation to anatomy
- Safe hold, minimal migration
- Available single-packed or pre-loaded on introduction-system
- High x-ray visibility

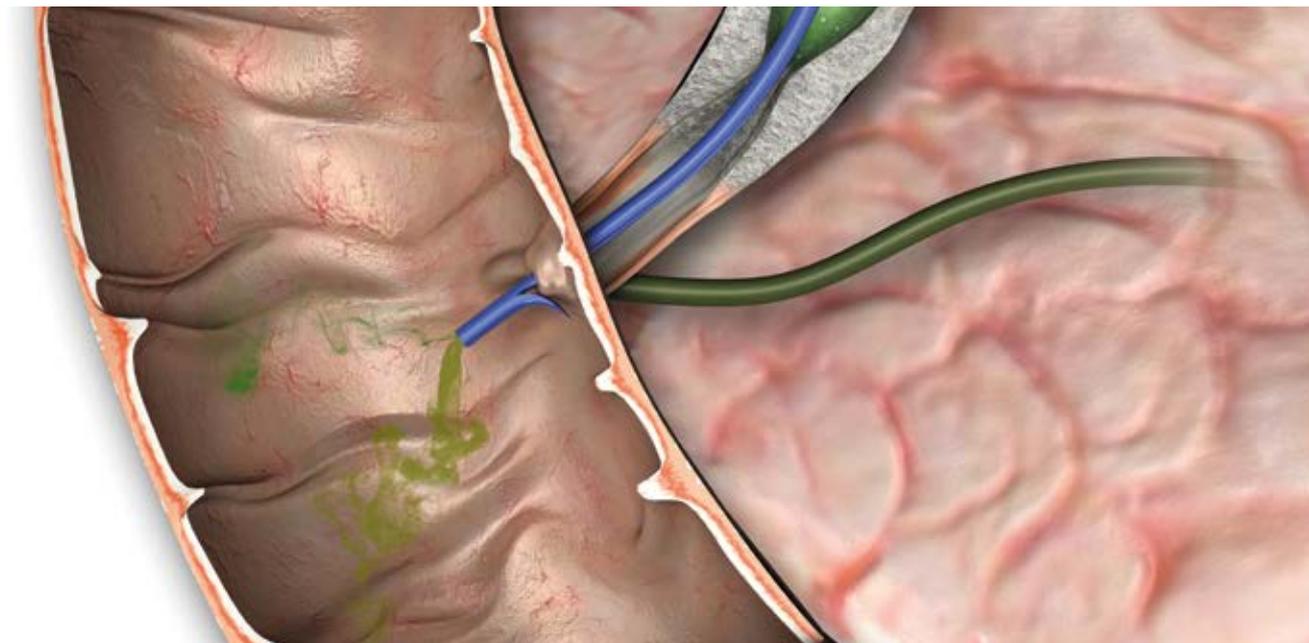


Pre-loaded stent



System handle





Stent straight



- Shape: straight
- 2 flaps
- 2 side-holes
- X-ray visible
- Material: PE

Working length	Diameter bile duct prosthesis			
	7FR	8.5FR	10FR	11.5FR
5 cm	BPDS-31114-0705	BPDS-31114-0805	BPDS-31114-1005	BPDS-31114-1105
6 cm	BPDS-31114-0706	BPDS-31114-0806	BPDS-31114-1006	BPDS-31114-1106
7 cm	BPDS-31114-0707	BPDS-31114-0807	BPDS-31114-1007	BPDS-31114-1107
8 cm	BPDS-31114-0708	BPDS-31114-0808	BPDS-31114-1008	BPDS-31114-1108
9 cm	BPDS-31114-0709	BPDS-31114-0809	BPDS-31114-1009	BPDS-31114-1109
10 cm	BPDS-31114-0710	BPDS-31114-0810	BPDS-31114-1010	BPDS-31114-1110
11 cm	BPDS-31114-0711	BPDS-31114-0811	BPDS-31114-1011	BPDS-31114-1111
12 cm	BPDS-31114-0712	BPDS-31114-0812	BPDS-31114-1012	BPDS-31114-1112
13 cm	BPDS-31114-0713	BPDS-31114-0813	BPDS-31114-1013	BPDS-31114-1113
14 cm	BPDS-31114-0714	BPDS-31114-0814	BPDS-31114-1014	BPDS-31114-1114
15 cm	BPDS-31114-0715	BPDS-31114-0815	BPDS-31114-1015	BPDS-31114-1115



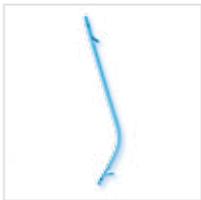
Stent curved



- Shape: 15° curved
- 2 flaps
- 2 side-holes
- X-ray visible
- Material: PE

Working length	Diameter bile duct prosthesis			
	7FR	8.5FR	10FR	11.5FR
5 cm	BPDS-32114-0705	BPDS-32114-0805	BPDS-32114-1005	BPDS-32114-1105
6 cm	BPDS-32114-0706	BPDS-32114-0806	BPDS-32114-1006	BPDS-32114-1106
7 cm	BPDS-32114-0707	BPDS-32114-0807	BPDS-32114-1007	BPDS-32114-1107
8 cm	BPDS-32114-0708	BPDS-32114-0808	BPDS-32114-1008	BPDS-32114-1108
9 cm	BPDS-32114-0709	BPDS-32114-0809	BPDS-32114-1009	BPDS-32114-1109
10 cm	BPDS-32114-0710	BPDS-32114-0810	BPDS-32114-1010	BPDS-32114-1110
11 cm	BPDS-32114-0711	BPDS-32114-0811	BPDS-32114-1011	BPDS-32114-1111
12 cm	BPDS-32114-0712	BPDS-32114-0812	BPDS-32114-1012	BPDS-32114-1112
13 cm	BPDS-32114-0713	BPDS-32114-0813	BPDS-32114-1013	BPDS-32114-1113
14 cm	BPDS-32114-0714	BPDS-32114-0814	BPDS-32114-1014	BPDS-32114-1114
15 cm	BPDS-32114-0715	BPDS-32114-0815	BPDS-32114-1015	BPDS-32114-1115

Stent lateral angled



- Form: 45° lateral angled
- 2 flaps
- 2 side-holes
- X-ray visible
- Material: PE

Working length	Diameter bile duct prosthesis			
	7FR	8.5FR	10FR	11.5FR
5 cm	BPDS-33114-0705	BPDS-33114-0805	BPDS-33114-1005	BPDS-33114-1105
6 cm	BPDS-33114-0706	BPDS-33114-0806	BPDS-33114-1006	BPDS-33114-1106
7 cm	BPDS-33114-0707	BPDS-33114-0807	BPDS-33114-1007	BPDS-33114-1107
8 cm	BPDS-33114-0708	BPDS-33114-0808	BPDS-33114-1008	BPDS-33114-1108
9 cm	BPDS-33114-0709	BPDS-33114-0809	BPDS-33114-1009	BPDS-33114-1109
10 cm	BPDS-33114-0710	BPDS-33114-0810	BPDS-33114-1010	BPDS-33114-1110
11 cm	BPDS-33114-0711	BPDS-33114-0811	BPDS-33114-1011	BPDS-33114-1111
12 cm	BPDS-33114-0712	BPDS-33114-0812	BPDS-33114-1012	BPDS-33114-1112
13 cm	BPDS-33114-0713	BPDS-33114-0813	BPDS-33114-1013	BPDS-33114-1113
14 cm	BPDS-33114-0714	BPDS-33114-0814	BPDS-33114-1014	BPDS-33114-1114
15 cm	BPDS-33114-0715	BPDS-33114-0815	BPDS-33114-1015	BPDS-33114-1115



Stent central angled



- Shape: 90° central angled
- 2 flaps
- 2 side-holes
- X-ray visible
- Material: PE

Working length	Diameter bile duct prosthesis			
	7FR	8.5FR	10FR	11.5FR
5 cm	BPDS-34114-0705	BPDS-34114-0805	BPDS-34114-1005	BPDS-34114-1105
6 cm	BPDS-34114-0706	BPDS-34114-0806	BPDS-34114-1006	BPDS-34114-1106
7 cm	BPDS-34114-0707	BPDS-34114-0807	BPDS-34114-1007	BPDS-34114-1107
8 cm	BPDS-34114-0708	BPDS-34114-0808	BPDS-34114-1008	BPDS-34114-1108
9 cm	BPDS-34114-0709	BPDS-34114-0809	BPDS-34114-1009	BPDS-34114-1109
10 cm	BPDS-34114-0710	BPDS-34114-0810	BPDS-34114-1010	BPDS-34114-1110
11 cm	BPDS-34114-0711	BPDS-34114-0811	BPDS-34114-1011	BPDS-34114-1111
12 cm	BPDS-34114-0712	BPDS-34114-0812	BPDS-34114-1012	BPDS-34114-1112
13 cm	BPDS-34114-0713	BPDS-34114-0813	BPDS-34114-1013	BPDS-34114-1113
14 cm	BPDS-34114-0714	BPDS-34114-0814	BPDS-34114-1014	BPDS-34114-1114
15 cm	BPDS-34114-0715	BPDS-34114-0815	BPDS-34114-1015	BPDS-34114-1115

Pigtail double



- Shape: Pigtail
- Double
- 2 side-holes
- X-ray visible
- Material: PE

Working length	Diameter bile duct prosthesis			
	7FR	8.5FR	10FR	11.5FR
5 cm	BPDS-31993-0705	BPDS-31993-0805	BPDS-31993-1005	BPDS-31993-1105
6 cm	BPDS-31993-0706	BPDS-31993-0806	BPDS-31993-1006	BPDS-31993-1106
7 cm	BPDS-31993-0707	BPDS-31993-0807	BPDS-31993-1007	BPDS-31993-1107
8 cm	BPDS-31993-0708	BPDS-31993-0808	BPDS-31993-1008	BPDS-31993-1108
9 cm	BPDS-31993-0709	BPDS-31993-0809	BPDS-31993-1009	BPDS-31993-1109
10 cm	BPDS-31993-0710	BPDS-31993-0810	BPDS-31993-1010	BPDS-31993-1110
11 cm	BPDS-31993-0711	BPDS-31993-0811	BPDS-31993-1011	BPDS-31993-1111
12 cm	BPDS-31993-0712	BPDS-31993-0812	BPDS-31993-1012	BPDS-31993-1112
13 cm	BPDS-31993-0713	BPDS-31993-0813	BPDS-31993-1013	BPDS-31993-1113
14 cm	BPDS-31993-0714	BPDS-31993-0814	BPDS-31993-1014	BPDS-31993-1114
15 cm	BPDS-31993-0715	BPDS-31993-0815	BPDS-31993-1015	BPDS-31993-1115



Pigtail distal



- Shape: Pigtail
- Distal
- 2 side-holes
- X-ray visible
- Material: PE

Working length	Diameter bile duct prosthesis	
	8.5FR	10FR
5 cm	BPDS-31196-0805	BPDS-31196-1005
6 cm	BPDS-31196-0806	BPDS-31196-1006
7 cm	BPDS-31196-0807	BPDS-31196-1007
8 cm	BPDS-31196-0808	BPDS-31196-1008
9 cm	BPDS-31196-0809	BPDS-31196-1009
10 cm	BPDS-31196-0810	BPDS-31196-1010
11 cm	BPDS-31196-0811	BPDS-31196-1011
12 cm	BPDS-31196-0812	BPDS-31196-1012
13 cm	BPDS-31196-0813	BPDS-31196-1013
14 cm	BPDS-31196-0814	BPDS-31196-1014
15 cm	BPDS-31196-0815	BPDS-31196-1015

Pigtail proximal



- Shape: Pigtail
- Proximal
- 2 side-holes
- X-ray visible
- Material: PE

Working length	Diameter bile duct prosthesis	
	8.5FR	10FR
5 cm	BPDS-31916-0805	BPDS-31916-1005
6 cm	BPDS-31916-0806	BPDS-31916-1006
7 cm	BPDS-31916-0807	BPDS-31916-1007
8 cm	BPDS-31916-0808	BPDS-31916-1008
9 cm	BPDS-31916-0809	BPDS-31916-1009
10 cm	BPDS-31916-0810	BPDS-31916-1010
11 cm	BPDS-31916-0811	BPDS-31916-1011
12 cm	BPDS-31916-0812	BPDS-31916-1012
13 cm	BPDS-31916-0813	BPDS-31916-1013
14 cm	BPDS-31916-0814	BPDS-31916-1014
15 cm	BPDS-31916-0815	BPDS-31916-1015

Christmas Tree



- Shape: Christmas Tree
- 4 flaps per end
- 2 side-holes
- X-ray visible
- Material: PTFE

Working length	Diameter bile duct prosthesis	
	8.5FR	10FR
5 cm	BPDS-13442-0805	BPDS-13442-1005
6 cm	BPDS-13442-0806	BPDS-13442-1006
7 cm	BPDS-13442-0807	BPDS-13442-1007
8 cm	BPDS-13442-0808	BPDS-13442-1008
9 cm	BPDS-13442-0809	BPDS-13442-1009
10 cm	BPDS-13442-0810	BPDS-13442-1010
11 cm	BPDS-13442-0811	BPDS-13442-1011
12 cm	BPDS-13442-0812	BPDS-13442-1012
13 cm	BPDS-13442-0813	BPDS-13442-1013
14 cm	BPDS-13442-0814	BPDS-13442-1014
15 cm	BPDS-13442-0815	BPDS-13442-1015



Introducer-systems without stent



- One step introducer-system
- X-ray visible

REF	Ø catheter	Stent fitting	Introducer length
BPDI-0720/22	7 FR	Bis 20 cm	220 cm
BPDI-0820/22	8.5 FR	Bis 20 cm	220 cm
BPDI-1020/22	10 FR	Bis 20 cm	220 cm
BPDI-1120/22	11.5 FR	Bis 20 cm	220 cm

Introducer-systems with pre-loaded stent



- One step introducer-system
- X-ray visible

Stent straight



- Shape: straight
- 2 flaps
- 2 side-holes
- X-ray visible
- Material: PE

REF	Ø catheter	Stent working/ total length	Introducer length
BPDS-3114-0805/22	8.5 FR	5 / 7 cm	220 cm
BPDS-3114-0807/22	8.5 FR	7 / 9 cm	220 cm
BPDS-3114-0809/22	8.5 FR	9 / 11 cm	220 cm
BPDS-3114-0811/22	8.5 FR	11 / 13 cm	220 cm
BPDS-3114-1005/22	10 FR	5 / 7 cm	220 cm
BPDS-3114-1007/22	10 FR	7 / 9 cm	220 cm
BPDS-3114-1009/22	10 FR	9 / 11 cm	220 cm
BPDS-3114-1011/22	10 FR	11 / 13 cm	220 cm

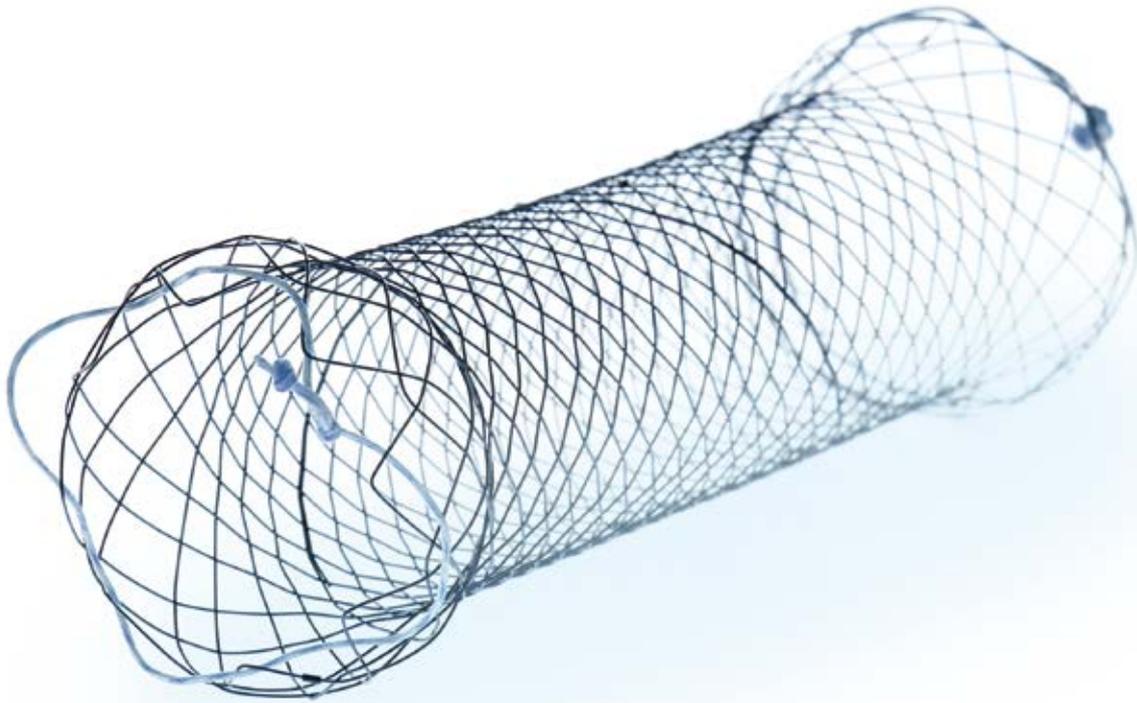
Stent curved



- Shape: 15° curved
- 2 flaps
- 2 side-holes
- X-ray visible
- Material: PE

REF	Ø catheter	Stent working/ total length	Introducer length
BPDS-3214-0805/22	8,5 FR	5 / 7 cm	220 cm
BPDS-3214-0807/22	8,5 FR	7 / 9 cm	220 cm
BPDS-3214-0809/22	8,5 FR	9 / 11 cm	220 cm
BPDS-3214-0811/22	8,5 FR	11 / 13 cm	220 cm
BPDS-3214-1005/22	10 FR	5 / 7 cm	220 cm
BPDS-3214-1007/22	10 FR	7 / 9 cm	220 cm
BPDS-3214-1009/22	10 FR	9 / 11 cm	220 cm
BPDS-3214-1011/22	10 FR	11 / 13 cm	220 cm





Duodenum stents.

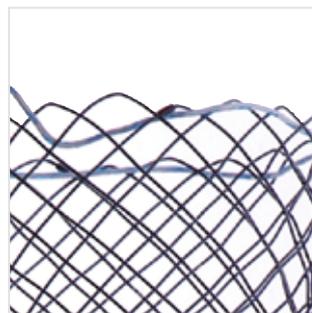
High level of positional stability via anatomical design.

The self-expanding Nitinol stents are used to bypass stenoses in the duodenum. Their spherical ends adapt perfectly to the anatomy of the duodenum, thereby guaranteeing maximum positional stability. Stents with and without covering are available depending on the indication. The duodenum stent is preloaded

on a TTS introducer (through-the-scope) as standard. Insertion can therefore be performed through the working channel of the endoscope and the stent can be released under endoscopic observation. X-ray markings on the introducer and on the stent ensure optimum radiological visualisation.

Specific characteristics:

- spherical ends
- self-expanding
- Nitinol mesh with atraumatic ends
- release under endoscopic observation
- excellent positional stability
- resistant and elastic covering
- high radiopacity
- extraction threads for removal and repositioning
- guide wire-compatible up to 0.035 inches



X-ray markings

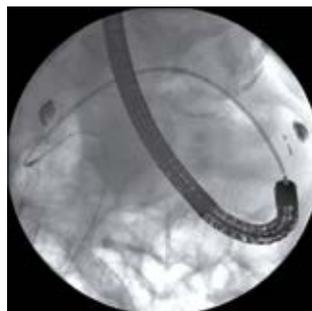


Extraction thread

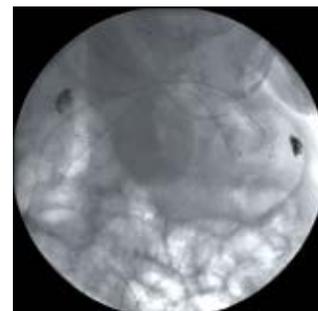


Successful in practical use.

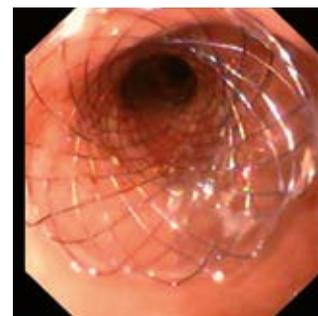
The X-ray images show the release process under radiological monitoring. The good radiopacity plus additional X-ray markings on the stent assist orientation and facilitate the release of the duodenum stent. The endoscopic position control clarifies the stent's optimum expansion.



Stent during release



Released stent



View into the released stent



100 mm

80 mm

60 mm

Always the appropriate solution.

With a diameter of 20 mm and different lengths of 60, 80, 100 or 120 mm, the range of duodenum stents always offers you the right size for your patient.

REF	Ø centre mm	Ø end mm	Length mm	Covering mm
Stents without covering				
ST02-101.20.060	20	26	60	without
ST02-101.20.080	20	26	80	without
ST02-101.20.100	20	26	100	without
ST02-101.20.120	20	26	120	without
Stents with partial covering				
ST02-102.20.060	20	26	60	40
ST02-102.20.080	20	26	80	60
ST02-102.20.100	20	26	100	80

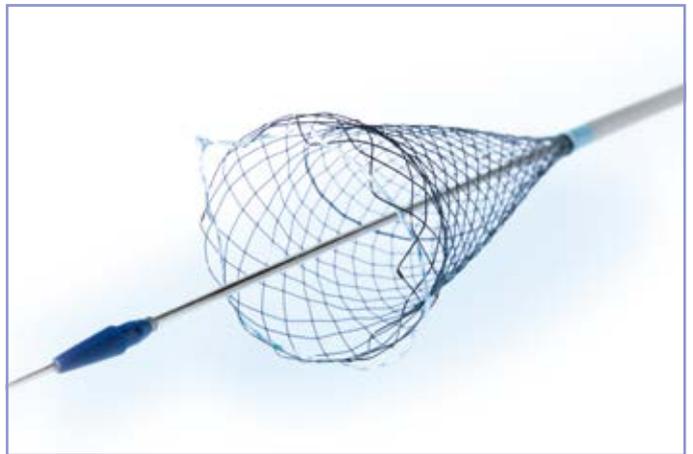
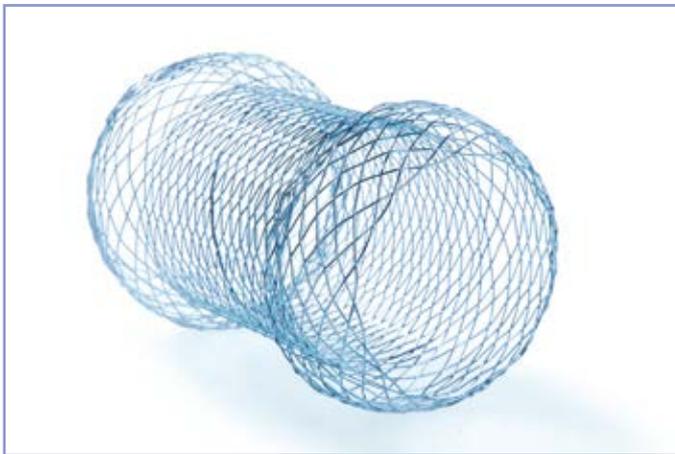
	Ø mm/fr.	Length mm	Guide wire	RM ^{*1}	IC ^{*2}	Lock ^{*3}
Introducer system	3.3/10	1,800	0.035 inch	2	yes	yes

Recommended guide wire: W11-225.035.450 Alternative: GW11-222.035.450 with a longr tip or GW11-207.035.420 extra stiff

*1 RM – radiopaque markings / *2 IC – irrigation channel / *3 Lock – secures the introducer system during storage, transportation and introduction

Also as a special size or individual stent





Nitinol stents

Colon and rectum.

[Colon and rectum stents OTW](#)

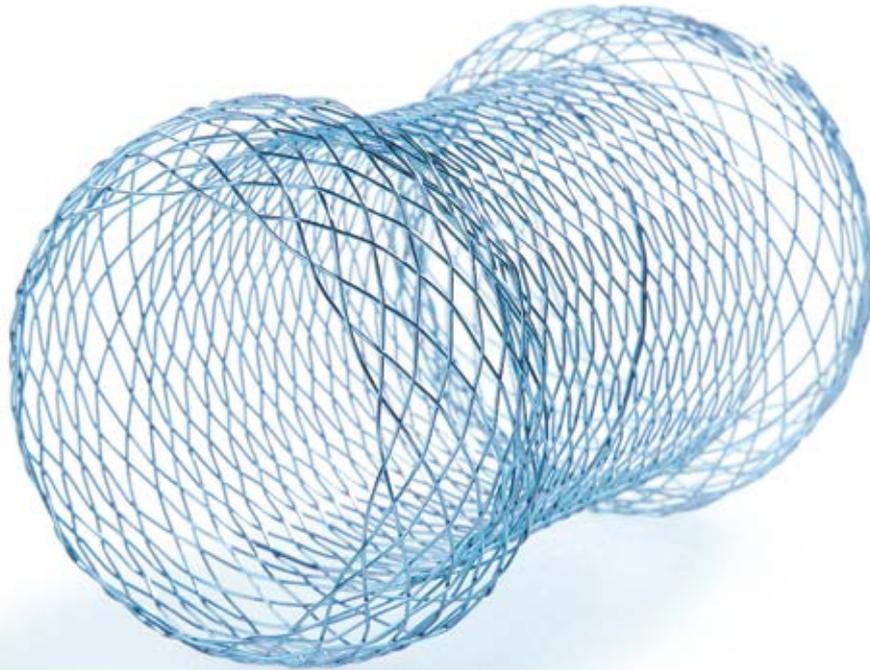
[Colon stents TTS](#)



Nitinol stents.

Reliable bypassing of stenoses in the area of the digestive or respiratory tract places high demands on a stent. As one of the leading international manu-

facturers, MICRO-TECH more than meets the requirements with its innovative solutions. Rely on the utmost in quality and optimum positional stability.



Self-expanding stents.

Every stent from the MICRO-TECH range is manufactured using highquality Nitinol wire. The "thermal memory effect" of Nitinol causes the released stent to unfold into its predetermined dimensions at body temperature. It therefore adapts to the anatomy and achieves the desired dilation of the stenosis in an optimum manner.

Simple to release.

In order to make release of the stent as easy as possible for you, the stents are preloaded on an introducer. The system can be manipulated intuitively and effortlessly. With some stents you even have the opportunity to correct the positioning of the stent during the implantation in case its being placed too low.

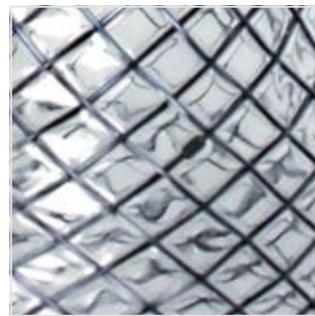


Manufactured from one wire.

MICRO-TECH Nitinol stents are - with the exception of the segmented stent - braided from one single wire. Therefore the risk of a stent fracture at connecting loops is almost impossible.

Precise positioning via X-ray markings.

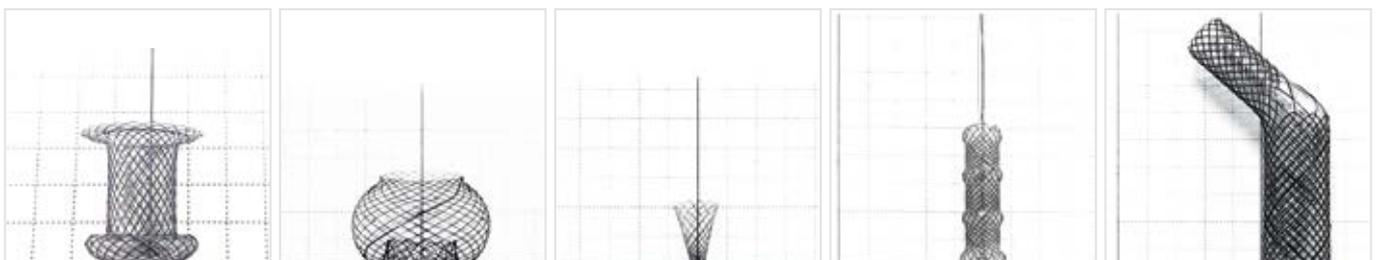
In order to allow you to position the stent precisely, additional X-ray markings are provided on the introducer and the stent, which can be easily distinguished under X-ray fluoroscopy. The excellent overall radiopacity of the stents further reinforces this effect.



X-ray markings

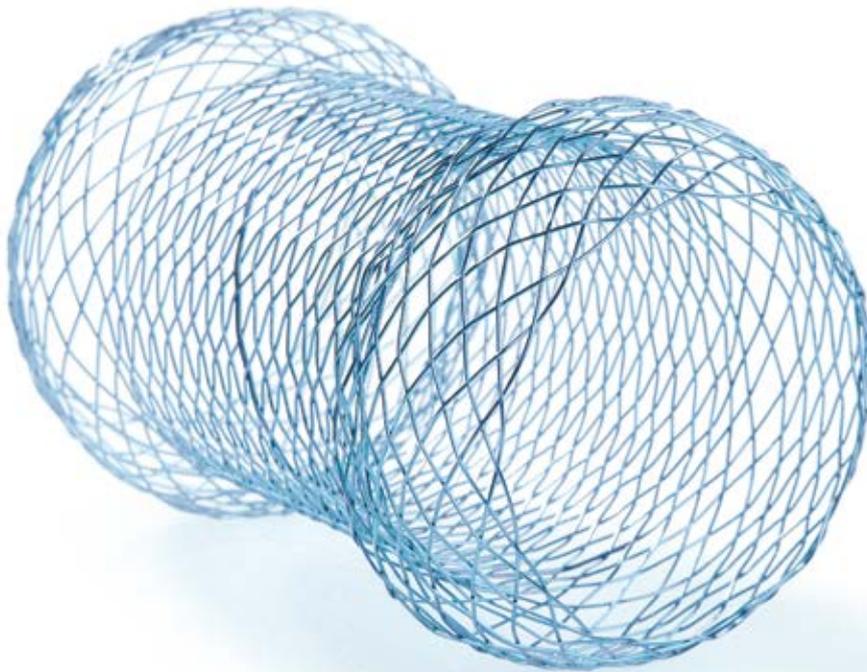
Special sizes and patient-made stents.

MICRO-TECH also supplies you with stents in special sizes in addition to stents in standard sizes. MICRO-TECH is the only manufacturer in the world to also develop individual productions specially adapted to your patients' anatomical requirements. The delivery usually only takes 10 working days.



Examples for patient-made-stents





Colon and rectum stents OTW.

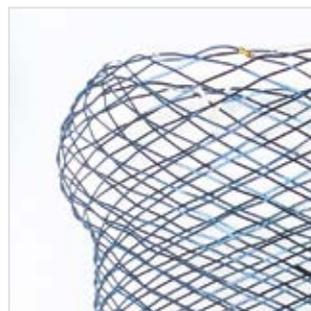
Maximum hold for maximum patient comfort.

The OTW colon and rectum stents of MICRO-TECH have a particularly high positional stability. This is achieved with the OTW colonic stents by a square-edged transition situated near each end of the stent. This virtually anchors the stent inside the lumen and adapts it optimally to the anatomy and peristalsis of the colon. In contrast, rectum stents are less stimulating

and ball-shaped. This ensures that the patient senses less irritations in this sensitive area, thus distinctly increasing the quality of life. The partially sheathed OTW colon and rectum stents produce very high radial forces. They should therefore be placed into straight segments of the colon, and not into the bent segments, such as the right and left flexure of the colon.

Specific characteristics:

- Nitinol mesh with atraumatic ends
- anatomical design
- excellent positional stability, high radial force
- resistant and elastic covering
- high radiopacity
- extraction threads for removal and repositioning
- guide wire-compatible up to 0.035 inches



Spherical end



Mushroom design

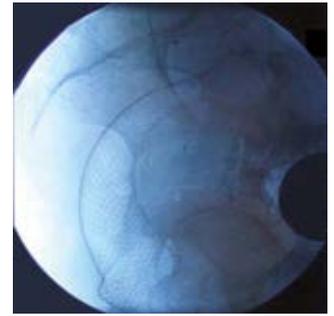


Successful in practical use.

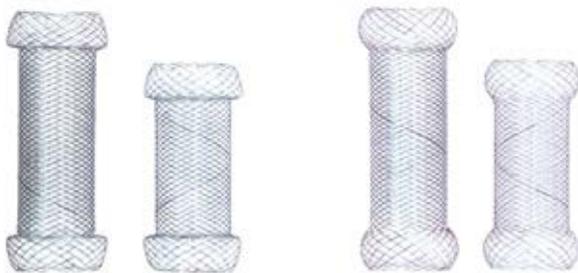
The stents are convincing in practice by the good opening behaviour and the special distinctive end shape of the colon stent with which the stents can be firmly anchored in the semilunar folds of the colon. In order to facilitate orientation during release, the stents have additional X-ray markings at all significant points.



Control with contrast medium



Released colon stent



Colon stents

Rectum stents

Positionally stable in all sizes.

The colon and rectum stents are available in a length of either 80 mm or 100 mm. The anastomosis stents have a length of 60 mm. You can choose between non-covered, partially covered and end-to-end covered versions.

REF	Ø centre mm	Ø end mm	Length mm	Covering mm	Application	End design
Stents without covering						
ST04-101.30.080	30	36	80	without	colon	mushroom
ST04-101.30.100	30	36	100	without	colon	mushroom
ST04-111.30.080	30	36	80	without	rectum	spherical
ST04-111.30.100	30	36	100	without	rectum	spherical
Stents with partial covering						
ST04-102.30.080	30	36	80	50	colon	mushroom
ST04-102.30.100	30	36	100	70	colon	mushroom
ST04-112.30.080	30	36	80	50	rectum	spherical
ST04-112.30.100	30	36	100	70	rectum	spherical
Anastomosis stents with end-to-end covering						
ST04-109.20.060	20	26	60	60	colon	spherical
ST04-109.26.060	26	32	60	60	colon	spherical
ST04-109.30.060	30	36	60	60	colon	spherical

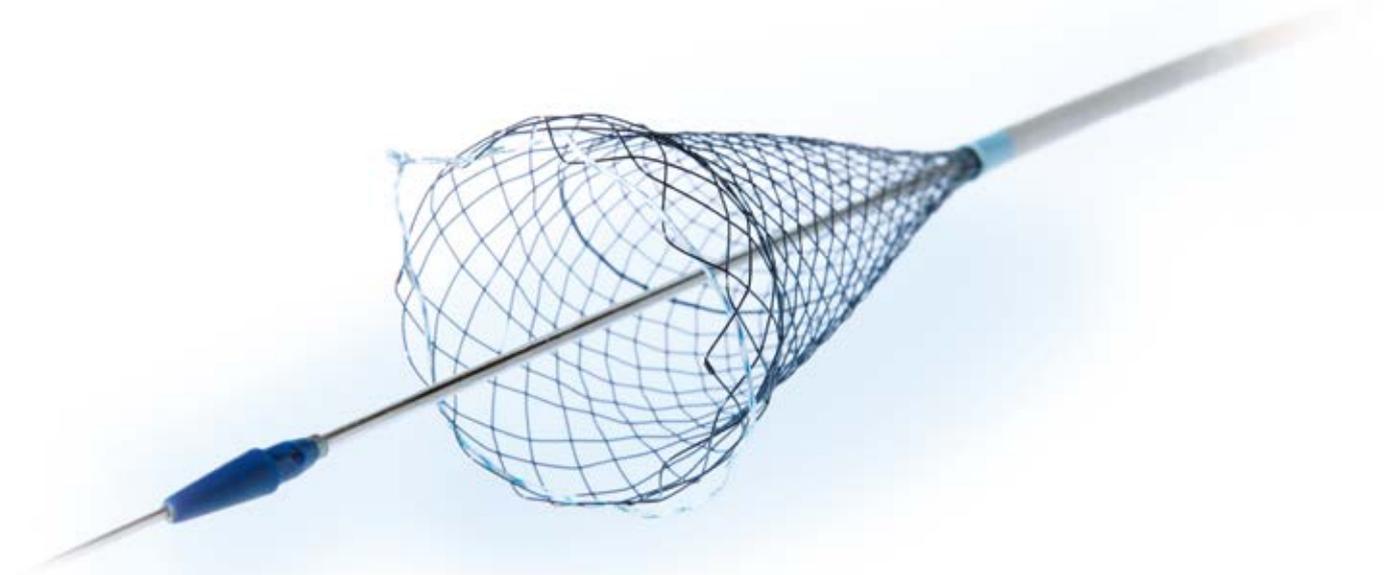
	Ø mm/fr.	Length mm	Guide wire	RM ^{*1}	IC ^{*2}	Lock ^{*3}
Introducer system						
ST04-111 + 112...	8/24	700	0.035 inch	2	yes	yes
ST04-101 + 102 + 109...	8/24	1,100	0.035 inch	2	yes	yes

Recommended guide wire: (colon): GW11-207.035.420; (rectum): GW11-207.035.260

*1 RM – radiopaque markings / *2 IC – irrigation channel / *3 Lock – secures the introducer system during storage, transportation and introduction

Also as a special size or individual stent





Colon stents TTS.

Secure placement under visual endoscopic control.

Whereas OTW systems can be placed over-the-wire, TTS colon stents can be delivered through the working channel of the colonoscope. This way, they can be brought much faster and easier to the affected colon segments. Owing to the visible endoscopic control

during placement of the stent, release happens in an even more controlled fashion. In comparison with OTW colon and rectum stents, TTS stents are especially flexible and better suited for the curved segments of the colon, e.g. the right and left flexure of the colon.

Specific characteristics:

- self-expanding
- Nitinol wire mesh with atraumatic ends
- flexible and positionally stable
- high radiopacity owing to 10 additional radiopaque markers
- extraction filaments for removal and repositioning
- guide wire passable up to 0.035 inches



X-ray markings

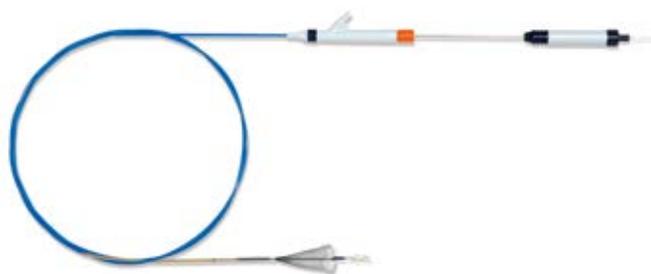


Dispenser for guide wires



Always in ideal shape.

As a standard among TTS colon stents, you can choose from four different lengths: 60, 80, 100, and 120 mm in case of stents without covering. In all other versions the working diameter amounts to 25 mm and to 30 mm at the ends. The introducer system for MICRO-TECH TTS colon stents has a diameter of 10 fr. (= 3.3 mm). It therefore fits to all working channels having a diameter of at least 3.6 mm.



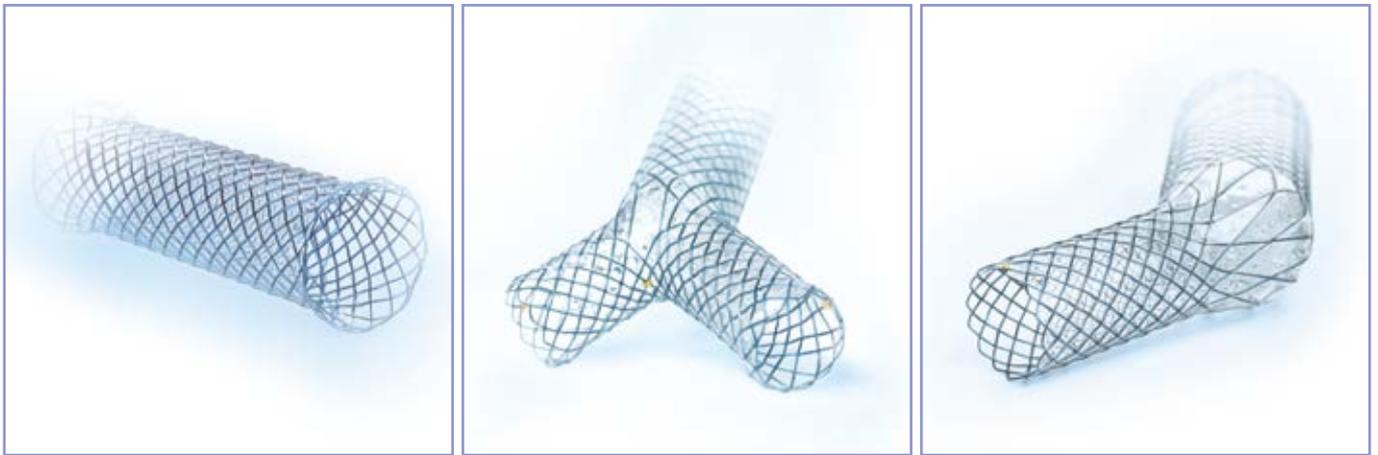
REF	Ø centre mm	Ø end mm	Length mm	Covering mm	Application	End design
Stents without covering						
ST04-104.25.060	25	30	60	without	colon	spherical
ST04-104.25.080	25	30	80	without	colon	spherical
ST04-104.25.100	25	30	100	without	colon	spherical
ST04-104.25.120	25	30	120	without	colon	spherical
Introducer system						
	Ø mm/fr.	Length mm	Guide wire	RM ^{*1}	IC ^{*2}	Lock ^{*3}
	3.3/10	2,300	0.035 inch	2	yes	yes

Recommended guide wire: GW11-207.035.420 extra stiff

*1 RM – radiopaque markings / *2 IC – irrigation channel / *3 Lock – secures the introducer system during storage, transportation and introduction

Also as a special size or individual stent





Nitinol stents

Tracheal and bronchial.

[Tracheal and bronchial stents](#)

[Carina-Y-Stent](#)

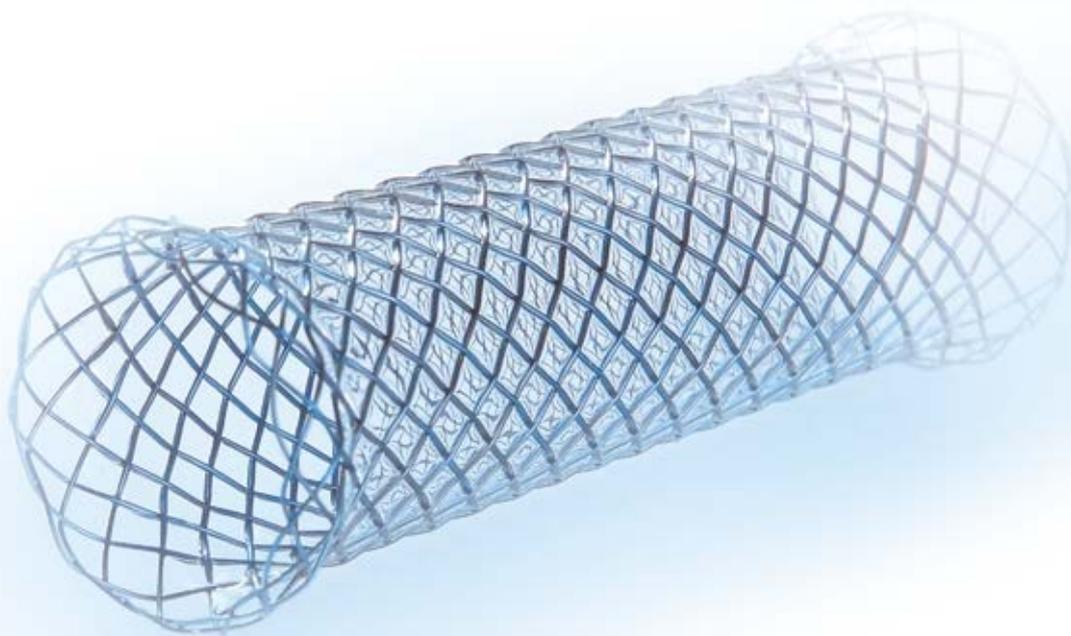
[Carina-J-Stent](#)



Nitinol stents.

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Self-expanding stents.

Every stent from the MICRO-TECH range is manufactured using highquality Nitinol wire. The "thermal memory effect" of Nitinol causes the released stent to unfold into its predetermined dimensions at body temperature. It therefore adapts to the anatomy and achieves the desired dilation of the stenosis in an optimum manner.

Simple to release.

In order to make release of the stent as easy as possible for you, the stents are preloaded on an introducer. The system can be manipulated intuitively and effortlessly. With some stents you even have the opportunity to correct the positioning of the stent during the implantation in case its being placed too low.

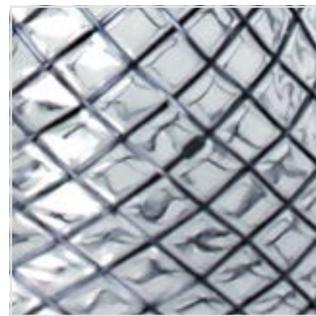


Manufactured from one wire.

MICRO-TECH Nitinol stents are - with the exception of the segmented stent - braided from one single wire. Therefore the risk of a stent fracture at connecting loops is almost impossible.

Precise positioning via X-ray markings.

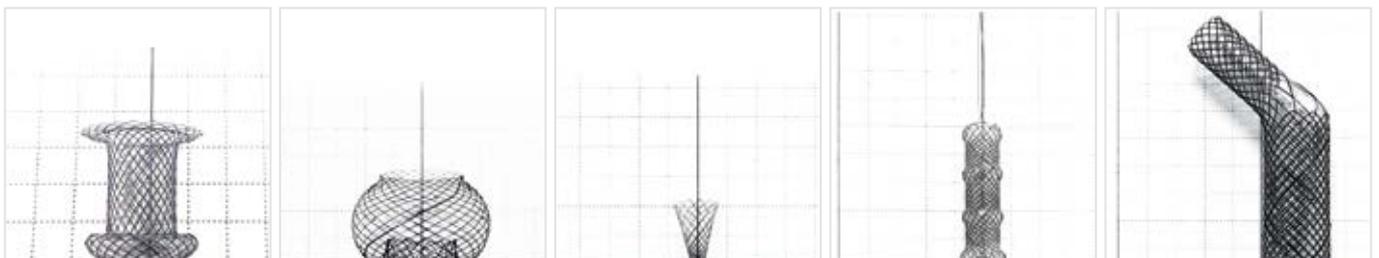
In order to allow you to position the stent precisely, additional X-ray markings are provided on the introducer and the stent, which can be easily distinguished under X-ray fluoroscopy. The excellent overall radiopacity of the stents further reinforces this effect.



X-ray markings

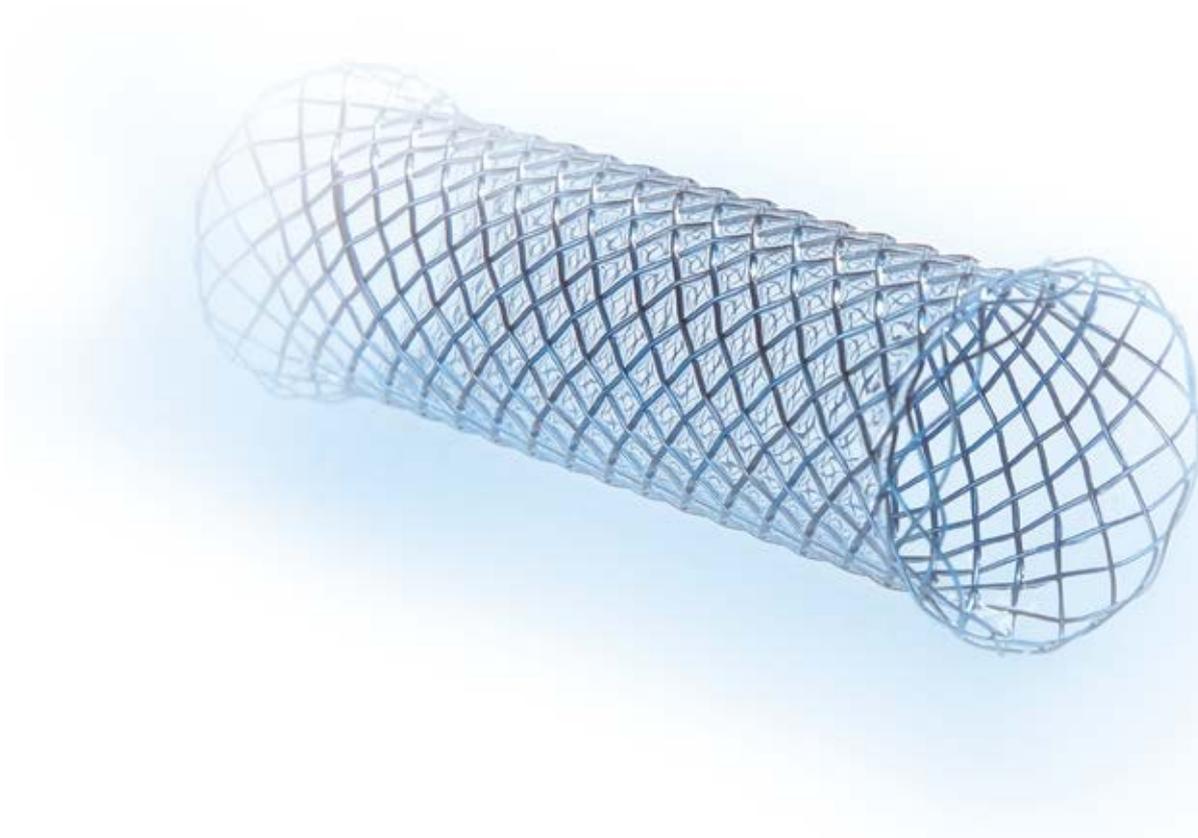
Special sizes and patient-made stents.

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Examples for patient-made-stents





Tracheal and bronchial stents.

Simply magnificent in terms of quality and variety.

The highly varied selection of self-expanding stents for the respiratory tracts offers you the right solution for every indication. All in all, seven different diameters between 8 and 20 mm in addition to six different

lengths of between 20 to 80 mm are available. Spherical ends in addition to the high radial force of the stent ensure a firm hold and minimise migration risk.

Specific characteristics:

- self-expanding
- Nitinol mesh with atraumatic ends
- excellent positional stability
- high radial force
- resistant and elastic covering
- fully covered stents available
- high radiopacity
- guide wire-compatible up to 0.035 inches

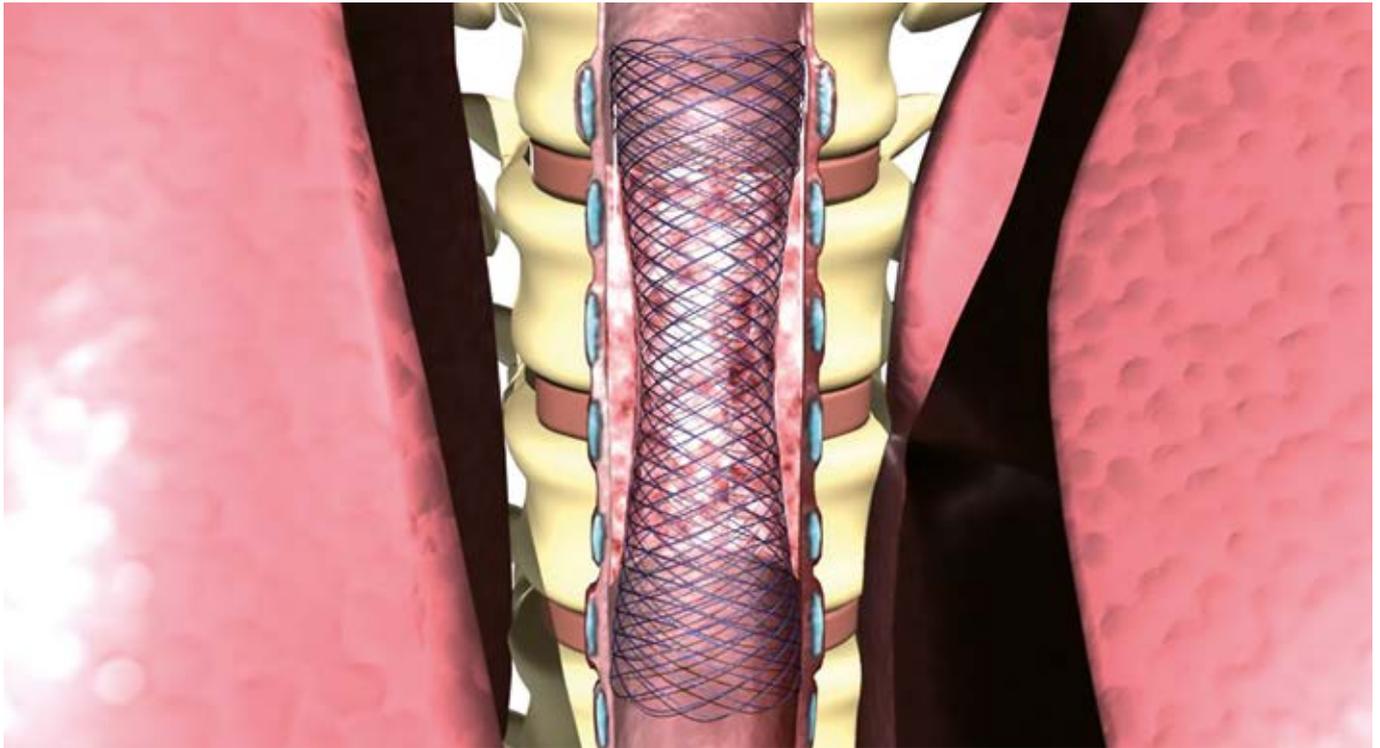


Spherical end



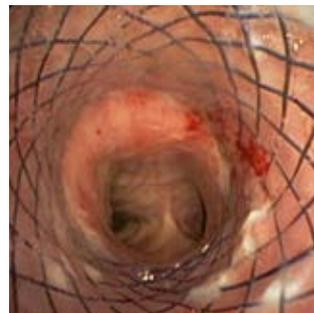
Elastic covering





Successful in practical use.

The MICRO-TECH typical stent ends guarantee utmost reliability when bypassing stenoses and leakages in the respiratory tracts: when combined with the high radial force, the distinctive spherical ends, which measure just 2.5 mm, guarantee excellent positional stability. The radiological image, acquired at a water depth of 10 cm, demonstrates the excellent radiopacity of the stent.



View into the released tracheal stent



Test image of radiopacity



Position monitoring with X-ray



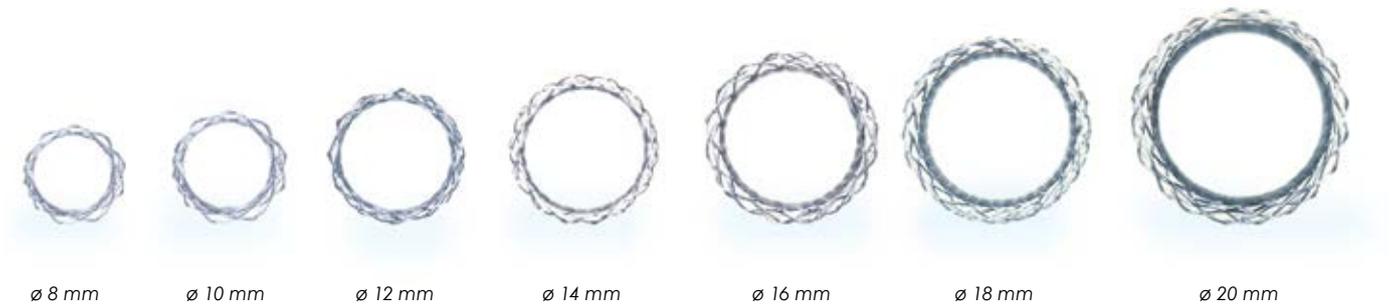
Covering according to requirements.

The stents are completely or partially covered according to requirements. The covering is particularly resistant and elastic.



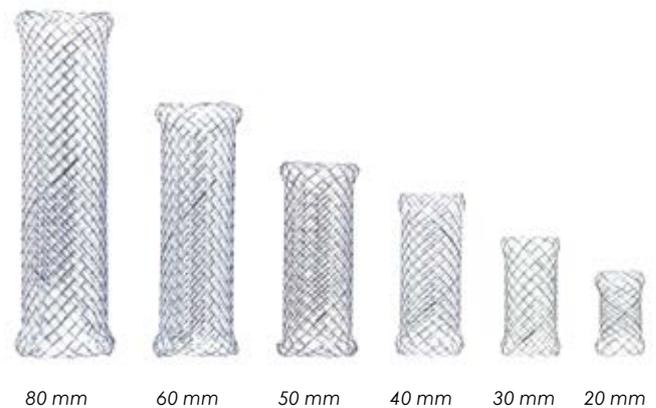
Seven different diameters.

With a total of seven different diameters, the stent size can be precisely adapted to the patient's anatomy. This ensures maximum hold and wearing comfort.



For long and short bypasses.

A selection of six different lengths is available between 20 and 80 mm, ensuring that the right solution is always to hand for every intervention.



Easy to manipulate introducer.

Each stent is preloaded on an easy-to-manipulate introducer which guarantees you rapid and precise stent release. If the stent has been placed too deeply, it can still be positioned at the desired point in the oral direction during release.

REF	\varnothing centre mm	\varnothing end mm	Length mm	Covering mm
Stents with partial covering				
ST05-102.08.020	8	10	20	15
ST05-102.08.030	8	10	30	25
ST05-102.10.020	10	12	20	15
ST05-102.10.030	10	12	30	25
ST05-102.12.020	12	14	20	15
ST05-102.12.030	12	14	30	25
ST05-102.12.040	12	14	40	35
ST05-102.14.020	14	16	20	15
ST05-102.14.030	14	16	30	25



REF	Ø centre mm	Ø end mm	Length mm	Covering mm
ST05-102.14.040	14	16	40	35
ST05-102.16.040	16	18	40	35
ST05-102.16.050	16	18	50	45
ST05-102.16.060	16	18	60	55
ST05-102.16.080	16	18	80	75
ST05-102.18.040	18	20	40	35
ST05-102.18.050	18	20	50	45
ST05-102.18.060	18	20	60	55
ST05-102.18.080	18	20	80	75
ST05-102.20.040	20	22	40	35
ST05-102.20.060	20	22	60	55
ST05-102.20.080	20	22	80	75

Stents with end-to-end covering

ST05-103.08.020	8	10	20	20
ST05-103.08.030	8	10	30	30
ST05-103.10.020	10	12	20	20
ST05-103.10.030	10	12	30	30
ST05-103.12.020	12	14	20	20
ST05-103.12.030	12	14	30	30
ST05-103.12.040	12	14	40	40
ST05-103.14.020	14	16	20	20
ST05-103.14.030	14	16	30	30
ST05-103.14.040	14	16	40	40
ST05-103.16.040	16	18	40	40
ST05-103.16.050	16	18	50	50
ST05-103.16.060	16	18	60	60
ST05-103.16.080	16	18	80	80
ST05-103.18.040	18	20	40	40
ST05-103.18.050	18	20	50	50
ST05-103.18.060	18	20	60	60
ST05-103.18.080	18	20	80	80
ST05-103.20.040	20	22	40	40
ST05-103.20.060	20	22	60	60
ST05-103.20.080	20	22	80	80

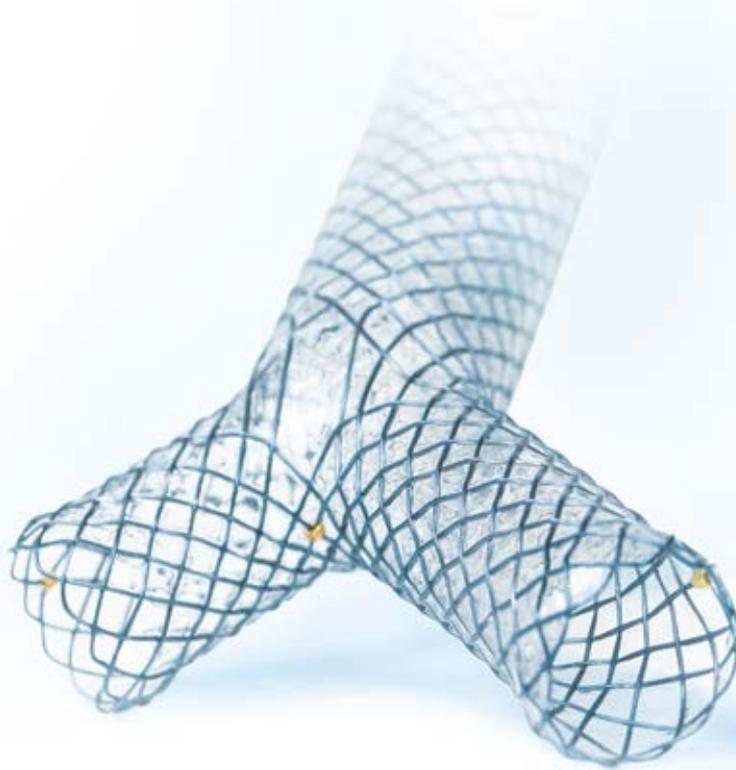
	Ø mm/fr.	Length mm	Guide wire	RM ^{*1}	IC ^{*2}	Lock ^{*3}
Introducer system						
ST05-10x.08 – 10	4/12	600	0.035 inch	2	yes	yes
ST05-101.12–20 / ST05-102.12–1 ST05-103.12–16	6/18	600	0.035 inch	2	yes	yes
ST05-102.18–20 / ST05-103.18–20	7/21	600	0.035 inch	2	yes	yes

Recommended guide wire: GW11-210.035.200 Alternative: GW11-213.035.200

*1 RM – radiopaque markings / *2 IC – irrigation channel / *3 Lock – secures the introducer system during storage, transportation and introduction

Also as a special size or individual stent





Carina-Y-Stent.

A world innovation.

MICRO-TECH is the world's first company to present a self-expanding Y-stent for bypassing respiratory tract stenoses in the area around the carina. Its innovative design ensures a stable position and guarantees significant treatment advances in the trachea and in both main bronchi. The specially developed

introducer allows you to place the complex stent simply and precisely. Release occurs atraumatically and safely. In order to assist you during manipulation, the handle has additional inscriptions in addition to colour-coded olive tips.

Specific characteristics:

- Y-design
- self-expanding
- Nitinol mesh with atraumatic ends
- excellent positional stability
- high radial force
- resistant and elastic covering
- high radiopacity
- compatible for 2 guide wires of up to 0.035 inches

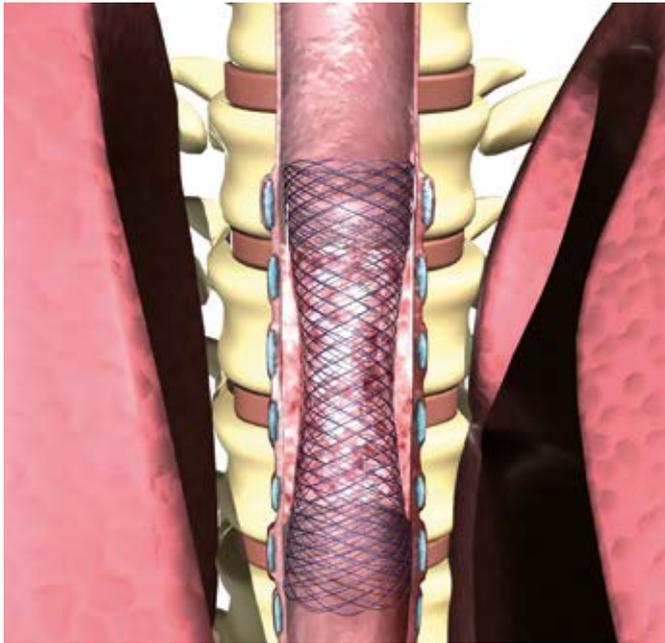


X-ray marking and covering



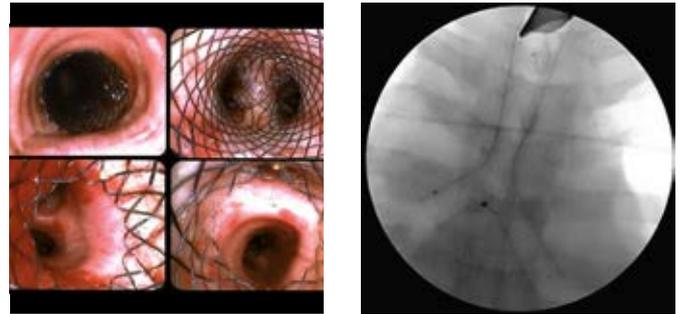
Introducer system for easy positioning





Successful in practical use.

Using the Y-stent from MICRO-TECH, the trachea, both main bronchi and the carina area can be reliably bypassed and sealed. In so doing, the covered Nitinol mesh adapts to the anatomy very well. The excellent radiopacity of the stent plus the additional X-ray markings at significant orientation points ensure precise positioning.



Photos: Positional control of released Y-stent
(Dr. Dutau, Hôpital Sainte-Marguerite, Marseille)



New system for easy release.

A specially developed and innovative delivery system facilitates the precise placement. A new ergonomically design makes the handling even more comfortable and safe. Differently colored olive tips and pull rings facilitate the orientation during the release of the two bronchial arms of the Carina Y-stent.

REF	Ø trachea mm	Length traches mm	Ø main bronchi mm	Length main bronchi mm right (no. covering) / left
ST05-152.16.040	16	40	12	20 (5) / 30
ST05-152.18.045	18	45	12	20 (5) / 30
ST05-152.20.050	20	50	14	20 (5) / 30
ST05-155.16.040	16	40	12	15 (5) / 30
ST05-155.18.045	18	45	12	15 (5) / 30
ST05-155.20.050	20	50	14	15 (5) / 30

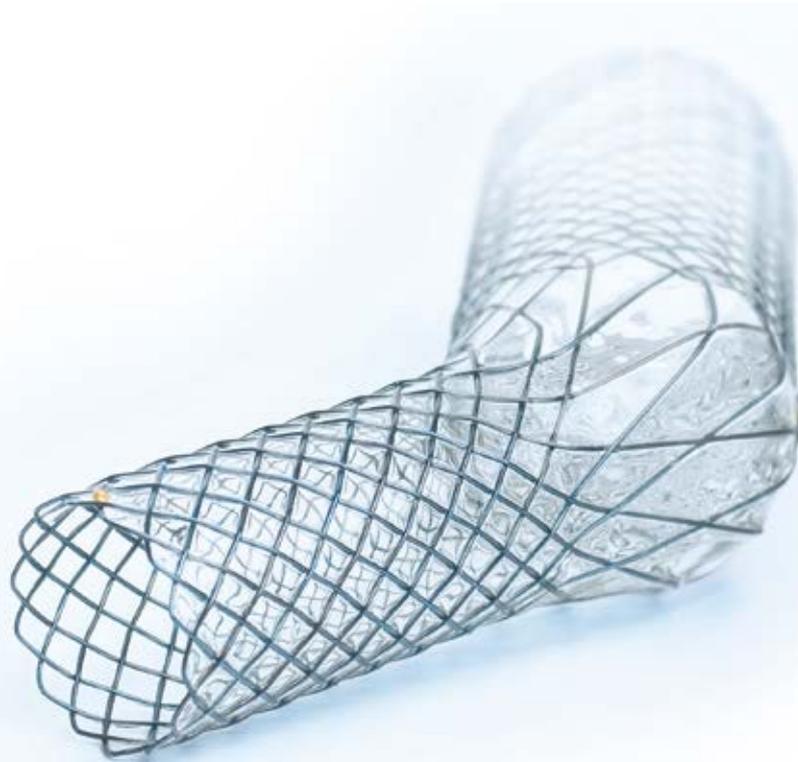
	Ø mm/fr.	Length mm	Guide wire	RM ^{*1}	IC ^{*2}	Lock ^{*3}
Introducer system						
ST05-15x.16.040	8/24	600	2 x 0.035 inch	1	yes	2
ST05-15x.18.050	8/25	600	2 x 0.035 inch	1	yes	2
ST05-15x.20.050	8/25	600	2 x 0.035 inch	1	yes	2

Recommended guide wire: Set GW11-210.035.200 and GW11-213.035.200

*1 RM – radiopaque markings / *2 IC – irrigation channel / *3 Lock – secures the introducer system during storage, transportation and introduction

Also as a special size or individual stent





Carina-J-Stent.

Successful risk management following pneumectomy.

MICRO-TECH would like to introduce an additional special stent designed specifically for treatment of the respiratory tracts in the shape of the selfexpanding Carina-J-Stent. Owing to its angled design in the form of a J, the stent can be perfectly placed in the trachea and the remaining main bronchus after pneumec-

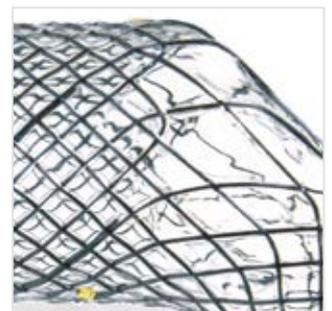
tomy has been performed. The completely covered stent protects the surgical suture. At the same time, it seals any existing suture insufficiencies and effectively prevents suture stenoses. You can therefore reduce the risk of complications with the J-stent and assist the patient's healing process.

Specific characteristics:

- angled J-design
- self-expanding
- Nitinol mesh with atraumatic ends
- excellent positional stability
- high radial force
- resistant and elastic covering
- complete covering
- high radiopacity
- guide wire-compatible up to 0.035 inches

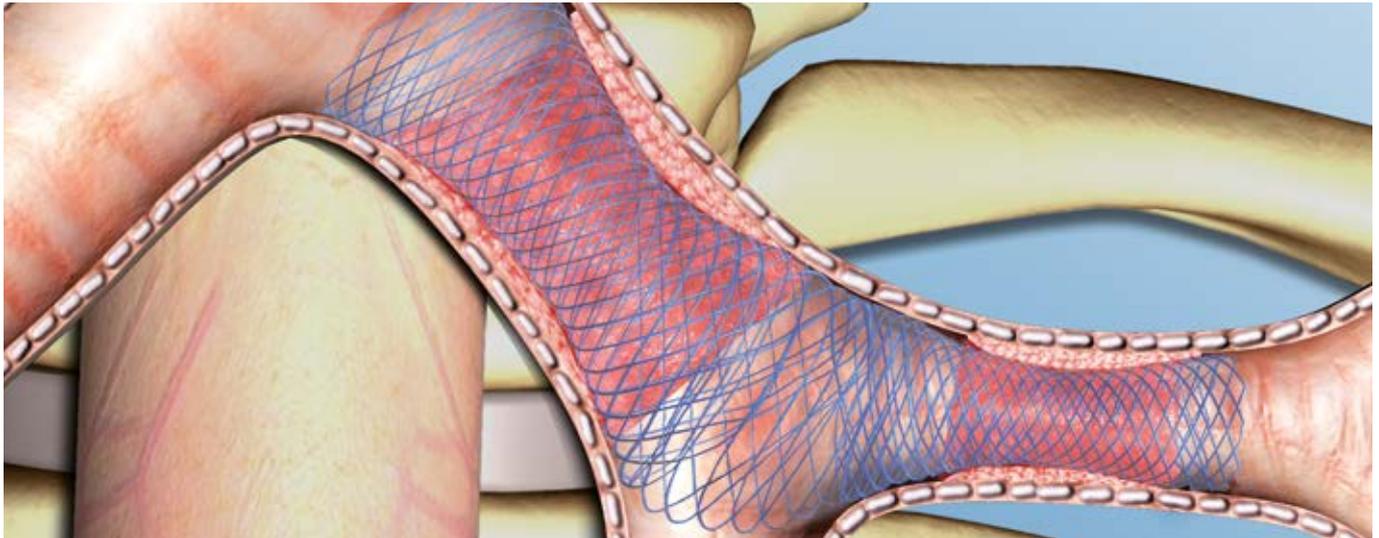


X-ray markings



Covering



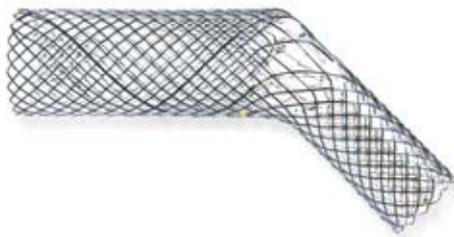


Successful in practical use.

The self-expanding J-stent made of Nitinol is characterised by its excellent radiopacity, as proven by the radiological images. X-ray markings at prominent positions on the stent also improve orientation during release. Once released, the stents convince by their efficient expansion, so that the desired therapeutic success is rapidly initiated.



Released J-stent



Innovative stent design.

The special J-shape, the complete covering and the excellent radial force – with a large number of characteristics, the J-stent makes bypassing after lobectomy safer than ever.

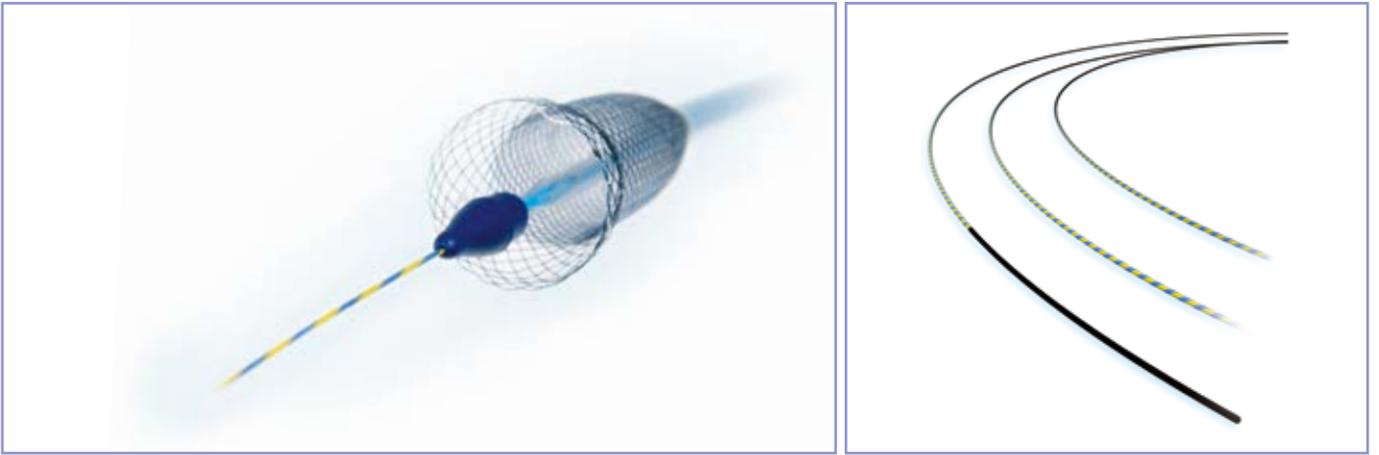
REF	Tracheal arm Ø mm	Tracheal arm Length mm	Bronchial arm Ø mm	Bronchial arm Length mm	Covering mm	
Stents with end-to-end covering						
ST05-143.16.040	16	40	12	30	end-to-end	
ST05-143.20.050	20	50	14	30	end-to-end	
	Ø mm/fr.	Length mm	Guide wire	RM ^{*1}	IC ^{*2}	Lock ^{*3}
Introducer system						
	7/21	600	0.035 inch	2	yes	yes

Recommended guide wire: GW11-210.035.200 Alternative: GW11-213.035.200

*1 RM – radiopaque markings / *2 IC – irrigation channel / *3 Lock – secures the introducer system during storage, transportation and introduction

**Also as a special size or individual stent,
with partial or without covering**

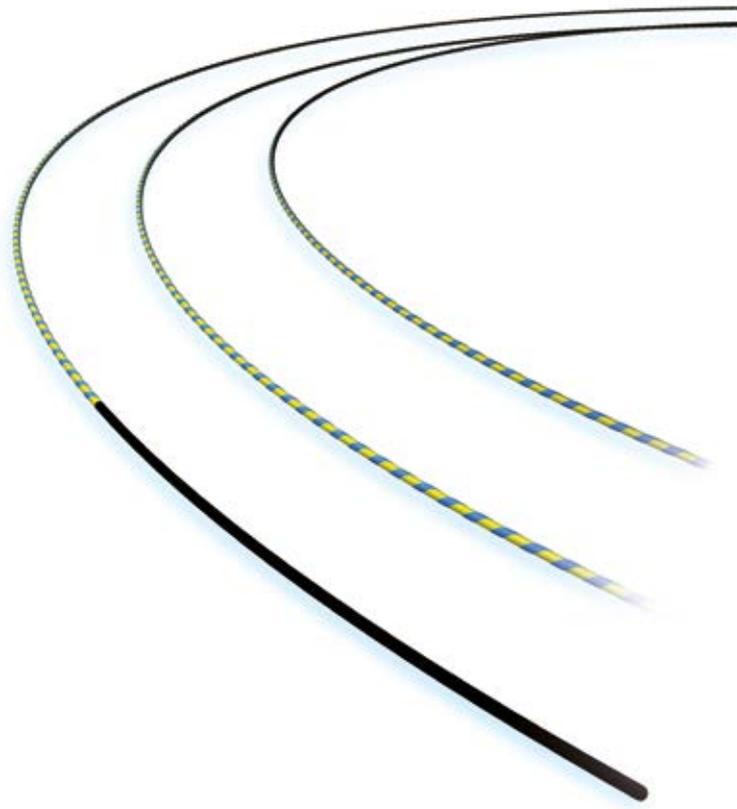




Guide wires

For stent placements and ERCP.





Guide wires.

The reliable choice for stent placements and ERCP.

All guide wires are manufactured out of bending-resistant and torsion-proof Nitinol. Owing to their hydrophilic tips, the wires safely find their way even into areas and stenoses which are hard to reach. This is supported by the wire's high rigidity and controllability. Hence the guide wires cannot only be applied in sophisticated stent placements, they are also per-

fectly suited for ERCP. The high radiopacity of the flexible hydrophilic tip ascertains an exact placement of stents under visual radiological control. Two different series are available: the Classic-series made in Germany and the Eco-series from MICRO-TECH as a cost-efficient alternative.

Specific characteristics:

- non-kinking nitinol wire
- high level of rigidity and guidability
- hydrophilic, atraumatic tip
- special design for OTW and Y-stents
- high level of radiopacity



Wire with straight tip



Wire with J-tip



Successful in practical routine work.

Bending resistance and rigidity account for the very good feeding properties of guide wires. In daily applications they convince by their precision, which is primarily guaranteed by the efficient transmission of the rotatory and translatory motion all the way to the tip of the wire, as applied by the surgical assistant. This makes it possible to reach into even anatomically difficult passages with ease. In addition, the tip of each wire can be perfectly seen in the X-ray control image, allowing for optimal stent positioning.



Endoscopic view



X-ray

Dispenser for easy operation.

The wire can be easily ejected and retracted by means of this innovative dispenser. Owing to its compact design, the dispenser is handy and easy to operate. Rinsing the wire is also easy and fast when using the dispenser.



Dispenser Classic guide wires



Dispenser Eco guide wires

REF	Ø inches	Total length mm	Tip length mm	Tip form	Set-up	Covering
Classic guide wire						
GW11-207.035.260	0,035"	2600	130	straight	hydrophilic, radiopaque	extra stiff
GW11-207.035.420	0,035"	4200	130	straight	hydrophilic, radiopaque	extra stiff
GW11-210.035.200	0,035"	2000	50	straight	radiopaque	black covering
GW11-213.035.200	0,035"	2000	50	straight	radiopaque	black-yellow covering
GW11-216.025.450	0,035"	4500	65	straight	hydrophilic, radiopaque, marks	black covering
GW11-222.035.450	0,035"	4500	85	straight	hydrophilic, radiopaque	blue-yellow covering
GW11-223.035.450	0,035"	4500	85	J-tip	hydrophilic, radiopaque	blue-yellow covering
GW11-225.035.450	0,035"	4500	50	straight	hydrophilic, radiopaque	blue-yellow covering
GW11-226.035.450	0,035"	4500	50	J-tip	hydrophilic, radiopaque	blue-yellow covering
Eco guide wire						
MTN-BM-89/45-A	0,035"	4500	60	straight	hydrophilic, radiopaque	blue-yellow covering
MTN-BM-89/45-A-J	0,035"	4500	60	J-form	hydrophilic, radiopaque	blue-yellow covering
MTN-BM-89/26-A	0,035"	2600	60	straight	hydrophilic, radiopaque	blue-yellow covering
MTN-BM-89/26-A-J	0,035"	2600	60	J-form	hydrophilic, radiopaque	blue-yellow covering
MTN-BM-63/45-A	0,025"	4500	60	straight	hydrophilic, radiopaque	blue-yellow covering
MTN-BM-63/45-A-J	0,025"	4500	60	J-form	hydrophilic, radiopaque	blue-yellow covering
MTN-BM-63/26-A	0,025"	2600	60	straight	hydrophilic, radiopaque	blue-yellow covering
MTN-BM-63/26-A-J	0,025"	2600	60	J-form	hydrophilic, radiopaque	blue-yellow covering
MTN-BM-53/45-A	0,021"	4500	60	straight	hydrophilic, radiopaque	blue-yellow covering
MTN-BM-45/45-A	0,018"	4500	60	straight	hydrophilic, radiopaque	blue-yellow covering

Packaging unit: GW11: 1 piece, MTN-BM: 2 pieces

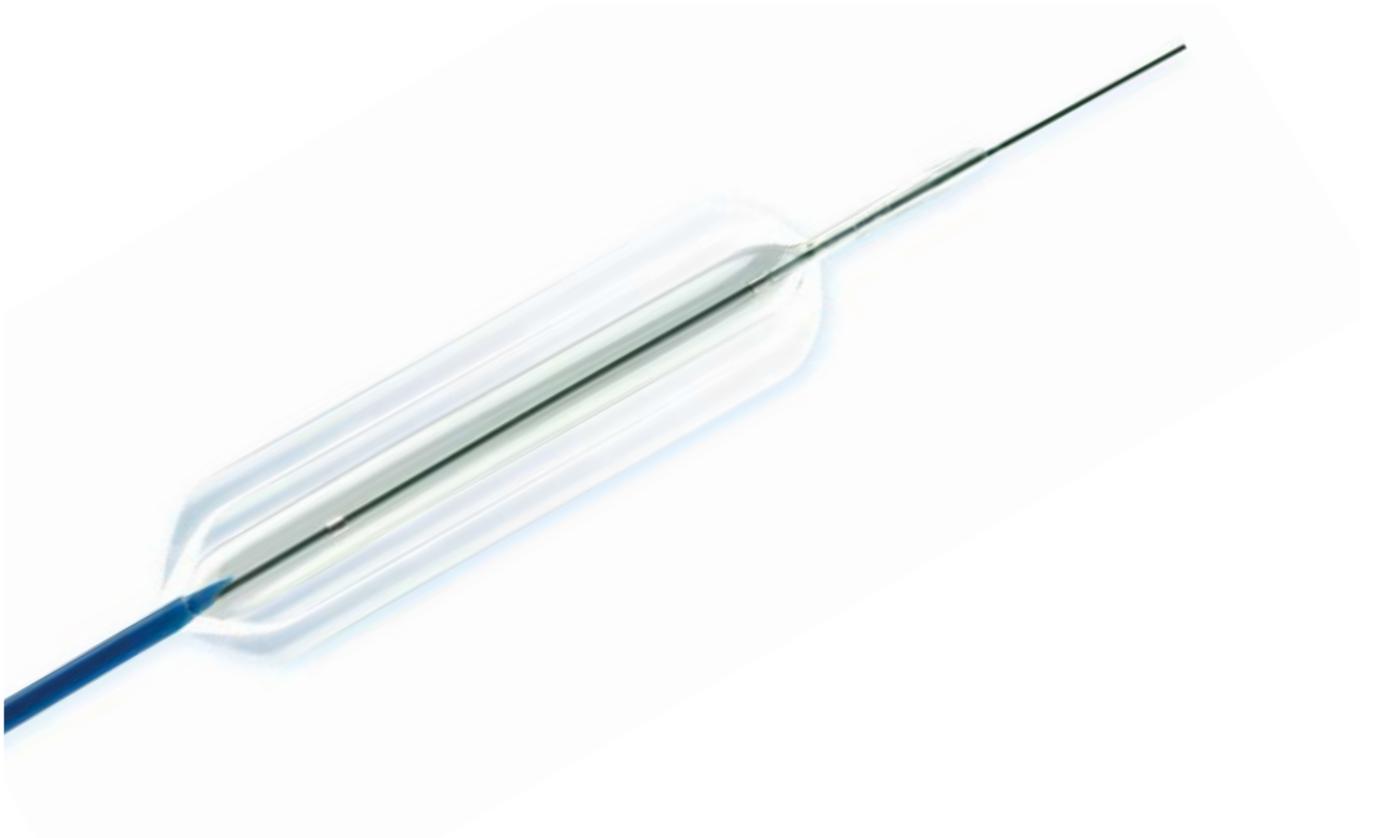




Balloons

Dilation and stone extraction.





Multi-stage dilation balloons.

Three diameters, one balloon.

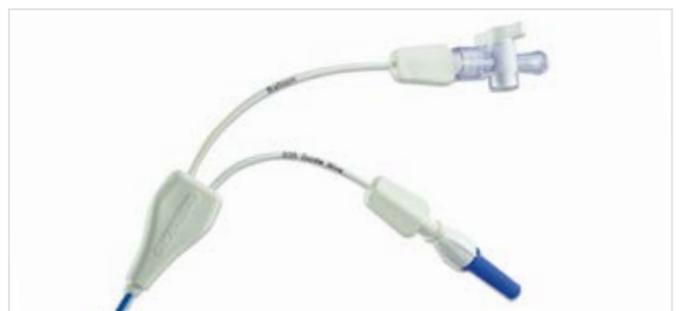
The multi-stage dilation balloon from MICRO-TECH facilitates simple and reliable dilation of stenoses. Each balloon can be expanded to three different, pre-defined fixed diameters for progressive dilation of stenosis in three defined stages. The pressure is distributed evenly over the entire working length of the balloon at every diameter. The rounded tips enable a good

endoscopic view of the stenosis, even during dilation, ensuring controlled, safe intervention and good therapeutic success. Thanks to the preloaded stiffed wire with its flexible, hydrophilic, radiopaque tip, the balloons are readily introduced and are then rapidly deflated after successful dilation.

Specific characteristics:

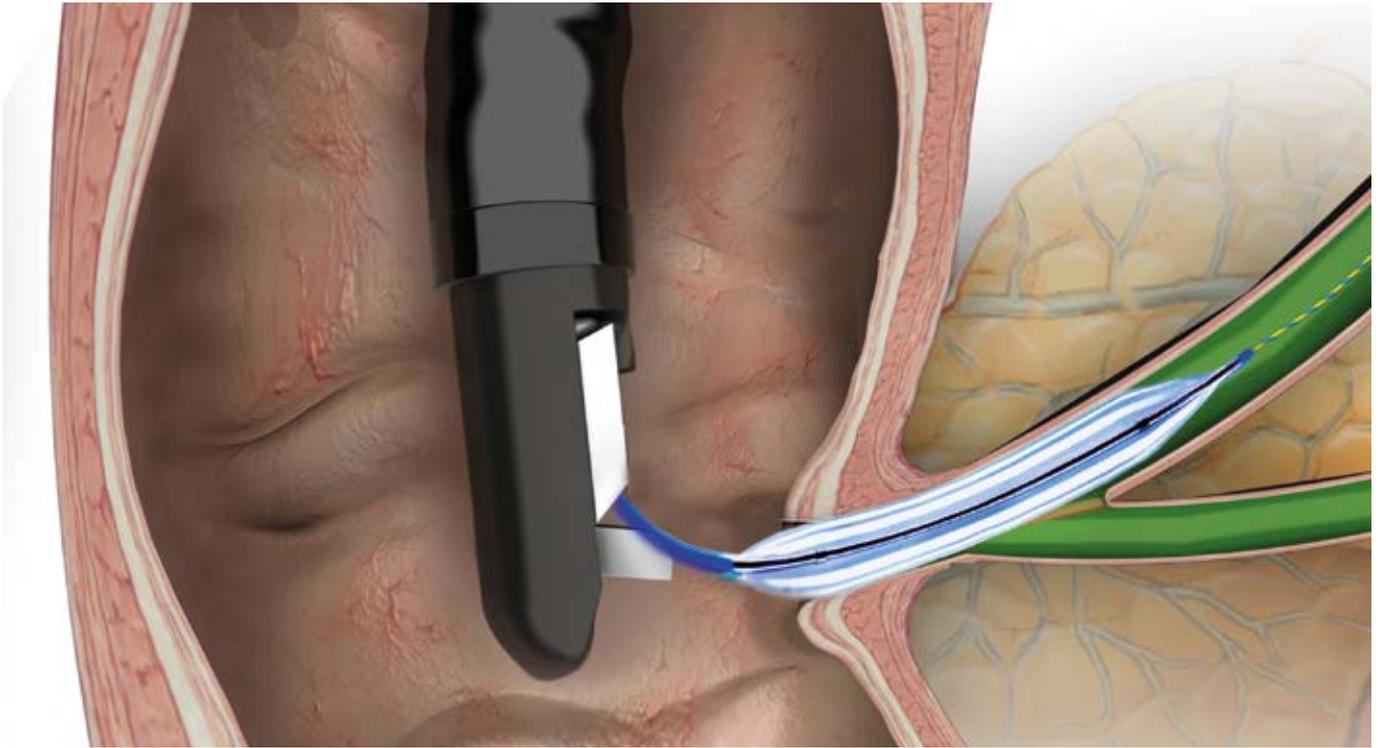
- three different diameters with three separate pressure levels
- 2 x-ray marks
- balloon tips for good endoscopic view
- conical, atraumatic catheter tip
- preloaded stiffed wire with hydrophilic, radiopaque tip

Details about the pump on page 63



Separated openings for stiffed wire and insufflation





REF	Balloon Ø mm	Balloon 3-stage-dilation pressure (atm)	Balloon length mm	Catheter Ø fr.	Catheter length mm
Multi-stage dilation balloons					
MBD-AS-BB-2	6 / 7 / 8	3 / 6 / 10	30	7	2300
MBD-AM-BA-2	6 / 7 / 8	3 / 6 / 10	55	7	1800
MBD-AM-BB-2	6 / 7 / 8	3 / 6 / 10	55	7	2300
MBD-AL-BA-2	6 / 7 / 8	3 / 6 / 10	80	7	1800
MBD-BS-BB-2	8 / 9 / 10	3 / 5.5 / 9	30	7	2300
MBD-BM-BA-2	8 / 9 / 10	3 / 5.5 / 9	55	7	1800
MBD-BM-BB-2	8 / 9 / 10	3 / 5.5 / 9	55	7	2300
MBD-BL-BA-2	8 / 9 / 10	3 / 5.5 / 9	80	7	1800
MBD-CS-BB-2	10 / 11 / 12	3 / 5 / 8	30	7	2300
MBD-CS-BB-2	10 / 11 / 12	3 / 5 / 8	55	7	1800
MBD-CM-BB-2	10 / 11 / 12	3 / 5 / 8	55	7	2300
MBD-CL-BA-2	10 / 11 / 12	3 / 5 / 8	80	7	1800
MBD-DS-BB-2	12 / 13.5 / 15	3 / 4.5 / 8	30	7	2300
MBD-DM-BA-2	12 / 13.5 / 15	3 / 4.5 / 8	55	7	1800
MBD-DM-BB-2	12 / 13.5 / 15	3 / 4.5 / 8	55	7	2300
MBD-DL-BA-2	12 / 13.5 / 15	3 / 4.5 / 8	80	7	1800
MBD-EM-BA-2	15 / 16.5 / 18	3 / 4.5 / 7	55	7	1800
MBD-EM-BB-2	15 / 16.5 / 18	3 / 4.5 / 7	55	7	2300
MBD-EL-BA-2	15 / 16.5 / 18	3 / 4.5 / 7	80	7	1800
MBD-FM-BA-2	18 / 19 / 20	3 / 4.5 / 6	55	7	1800
MBD-FM-BB-2	18 / 19 / 20	3 / 4.5 / 6	55	7	2300
MBD-FL-BA-2	18 / 19 / 20	3 / 4.5 / 6	80	7	1800

Packaging unit: 1 piece / suitable for guidewires with 0,035"





Dilation balloons.

Simply expand reliably and effectively.

The dilation balloons from MICRO-TECH stand for maximum quality. MICRO-TECH produces all the dilation balloons itself – using state-of-the-art European and American production technology. Two x-ray markings indicate the precise working length of the balloon, thereby ensuring its precise positioning. Under application of pressure, the balloon very rapid-

ly acquires its precisely predefined expansion width. Furthermore, the high-pressure design ensures that the balloon retains its shape over the entire working length, thereby allowing optimum dilation success. All balloons are available as TTS (through-the-scope) systems up to a balloon diameter of 18 mm and a catheter length of 1800 mm.

Specific characteristics:

- dimensionally stable high pressure design
- 2 X-ray markings
- separate guide wire and insufflation lumens
- conical shaped catheter tip
- very rapid expansion
- constant dilation over the entire length
- guide-wire compatible up to 0.035 inches

Details about the pump on page 63



X-ray marking



Conical tip



Successful in practical use.

Stenoses are effectively dilated using the MICRO-TECH dilation balloons. The balloon dilates the stenosis safely and gently and prepares the area to be treated in an optimum manner. The uniform distribution of pressure over the entire working length of the balloon and the outstanding dimensional stability during dilation guarantee excellent therapeutic success over the entire length of the stenosis.

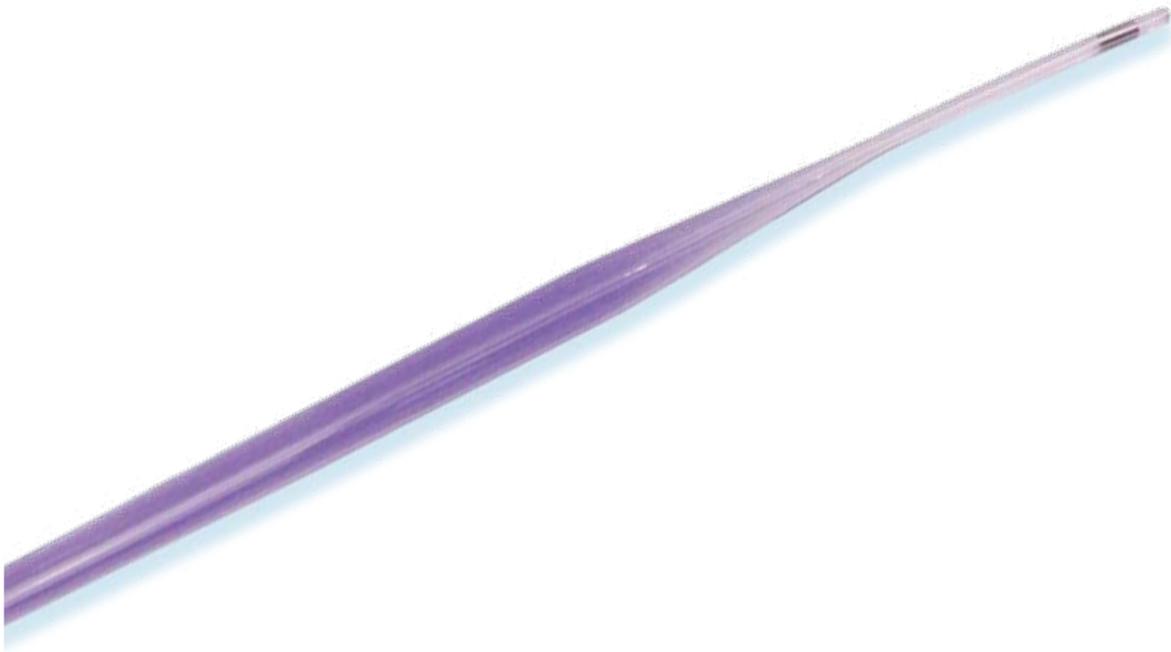


Endoscopic control during dilation therapy

REF	Balloon Ø mm	Balloon length mm	Catheter Ø fr.	Catheter length mm	Channel Ø mm	Application
OTW – Dilation balloons						
BDC-8/55-7/10	8	55	7	1000	–	oesophagus
BDC-10/55-7/10	10	55	7	1000	–	oesophagus
BDC-12/55-7/10	12	55	7	1000	–	oesophagus
BDC-16/55-7/10	16	55	7	1000	–	oesophagus
BDC-18/55-7/10	18	55	7	1000	–	oesophagus
BDC-20/55-7/10	20	55	7	1000	–	oesophagus
BDC-12/80-7/10	12	80	7	1000	–	oesophagus
BDC-16/80-7/10	16	80	7	1000	–	oesophagus
BDC-18/80-7/10	18	80	7	1000	–	oesophagus
BDC-20/80-7/10	20	80	7	1000	–	oesophagus
TTS – Dilation balloons						
BDC-8/55-7/18	8	55	7	1800	2.8	oesophagus/bile duct
BDC-8/55-7/24	8	55	7	2400	2.8	pylorus/colon
BDC-10/55-7/18	10	55	7	1800	2.8	oesophagus/bile duct
BDC-10/55-7/24	10	55	7	2400	2.8	pylorus/colon
BDC-12/55-7/18	12	55	7	1800	2.8	oesophagus
BDC-12/55-7/24	12	55	7	2400	2.8	pylorus/colon
BDC-16/55-7/18	16	55	7	1800	2.8	oesophagus
BDC-16/55-7/24	16	55	7	2400	2.8	pylorus/colon
BDC-18/55-7/18	18	55	7	1800	2.8	oesophagus
BDC-18/55-7/24	18	55	7	2400	2.8	pylorus/colon
BDC-20/55-7/18	20	55	7	1800	4.2	oesophagus
BDC-20/55-7/24	20	55	7	2400	4.2	pylorus/colon
BDC-12/80-7/18	12	80	7	1800	2.8	oesophagus
BDC-12/80-7/24	12	80	7	2400	2.8	pylorus/colon
BDC-16/80-7/18	16	80	7	1800	2.8	oesophagus
BDC-16/80-7/24	16	80	7	2400	2.8	pylorus/colon
BDC-18/80-7/18	18	80	7	1800	2.8	oesophagus
BDC-18/80-7/24	18	80	7	2400	2.8	pylorus/colon
BDC-20/80-7/18	20	80	7	1800	4.2	oesophagus
BDC-20/80-7/24	20	80	7	2400	4.2	pylorus/colon
Achalasia-Balloons						
BDC-26/80-7/10	26	80	7	1000	–	Achalasia
BDC-30/80-7/10	30	80	7	1000	–	Achalasia
BDC-34/80-7/10	34	80	7	1000	–	Achalasia

Packaging unit: 1 piece / suitable for guidewires with 0,035"





Bougie Dilators.

Safe, easy and economical dilatation.

The reprocessing of a reusable bougie results in a lot of effort and high costs. In contrast, the disposable bougies from MICRO-TECH are immediately ready for use and very economical. Sterile packed they are durable for up to 2 years and minimize the risk of cross-contamination considerably. During the usage

the bougies convince via their reliable dilatation. You can choose from twelve sizes with a diameter of 5 to 19 mm and a length of 850 mm. Helpful for easy orientation in the dilatation process, in addition to the flexibility of the material, are especially the practical graduation-marks on the bougie.

Specific characteristics:

- sterile disposable bougies for direct use
- elimination of reprocessing costs
- twelve diameters from 5 to 19 mm
- working length: 850 mm
- markings on the bougie
- guidewire capable up to 0.038 inch



High quality bougie tip for precise insertion



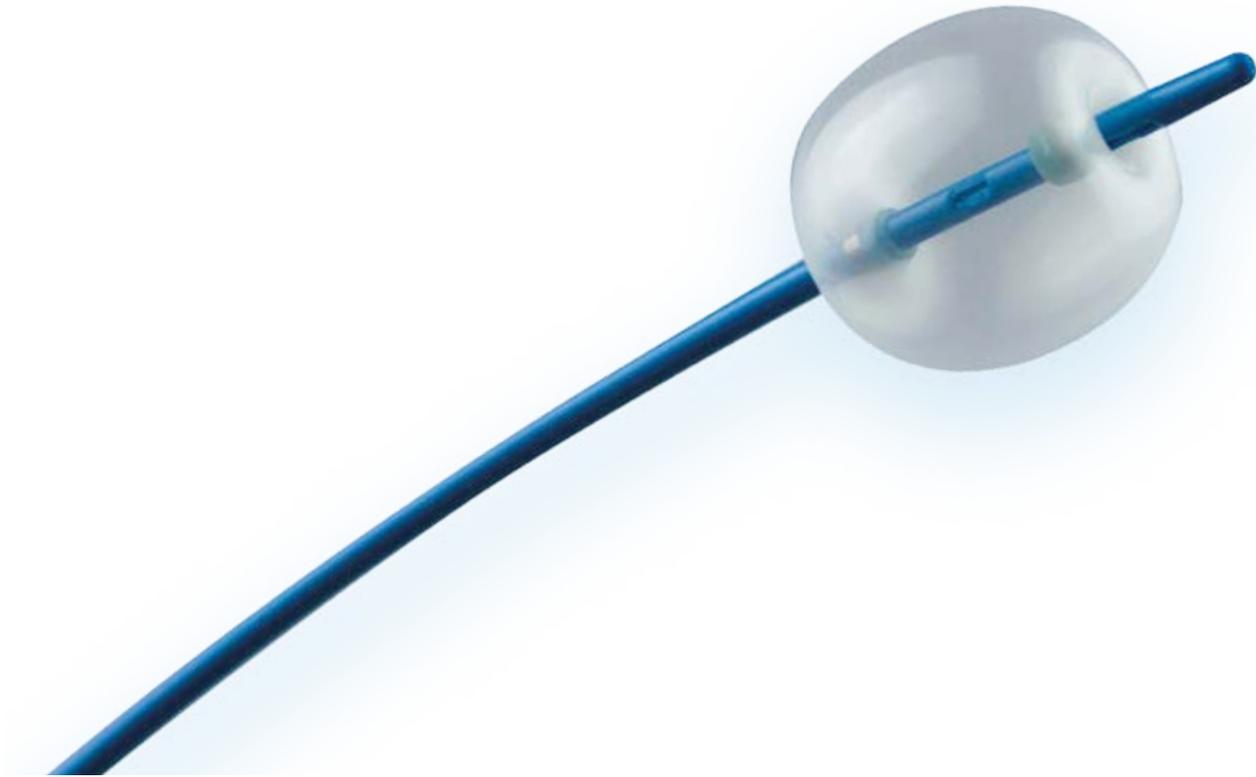
Bougie with lengths-marking in cm



REF	Ø mm	Length mm
Bougie dilators		
MT-05850	5	850
MT-06850	6	850
MT-07850	7	850
MT-08850	8	850
MT-09850	9	850
MT-10850	10	850
MT-11850	11	850
MT-12850	12	850
MT-13850	13	850
MT-15850	15	850
MT-17850	17	850
MT-19850	19	850

Packaging unit: 1 piece





Stone Extraction Balloons.

One balloon, three diameters.

The product range from MICRO-TECH includes high-quality 3-lumen extraction balloons for reliable removal of small stones and sludge from the bile duct. The conical, atraumatic tip of the catheter makes for easy, precise positioning using the two x-ray marks. The cylindrical balloon itself is made of high-quality latex and can be expanded to three different diam-

eters. A specially calibrated single-use syringe is supplied for each balloon diameter. Following insufflation, the balloon surface lies flat against the bile duct wall, enabling efficient and complete cleaning of the bile duct. A separate lumen for an 0.035 Inch guidewire and one for the contrast agent provide for ease of handling and contrast agent dosing.

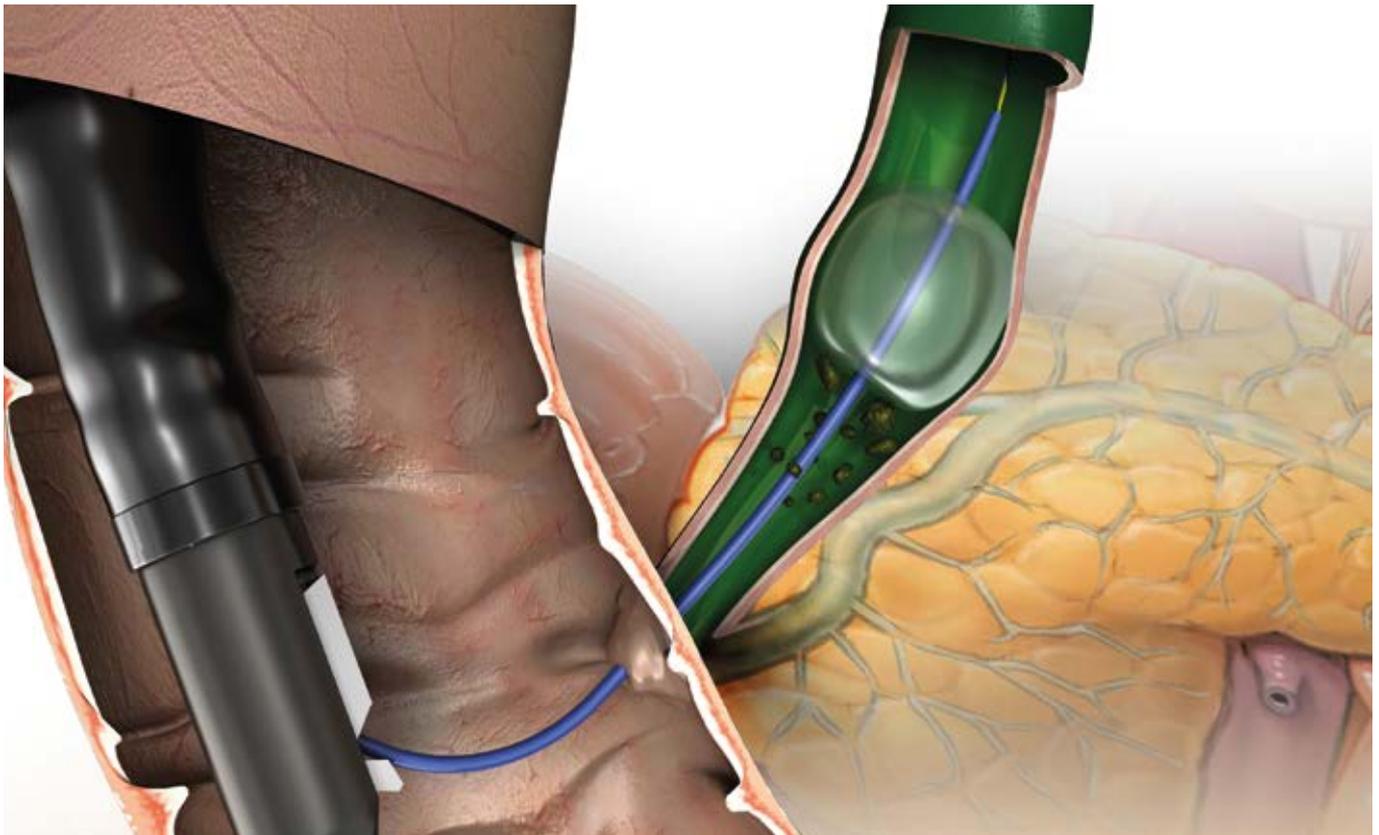
Specific characteristics:

- 3-stage balloons
- one calibrated tip per diameter
- high-quality latex
- 3 lumens for insufflation, guidewire and contrast agent
- good x-ray visibility (radiopacity)



3-lumen stone extraction balloon from MICRO-TECH





Single-use inflation-instrument.

Sturdy construction and an ergonomic handle for easy control. With quick-lock mechanism for one-handed deflation, even under full pressure. The clear cylinder and the easy to read scale allow for a close look at the content and the amount. The exact gauge guarantees reliable pressure measurement.

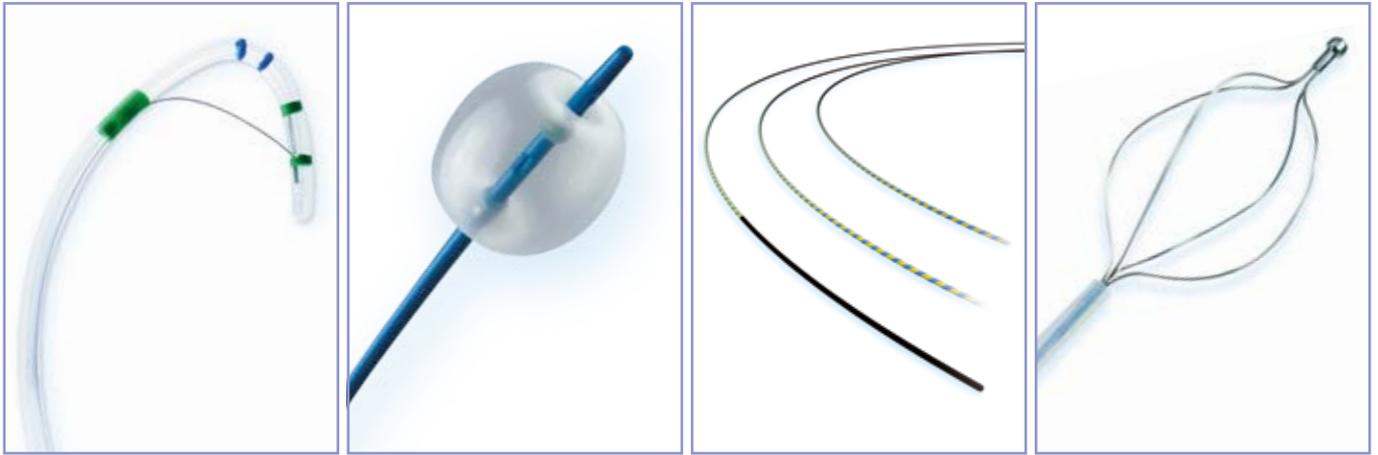


REF	Content ml air/liquid	Max. pressure ATM	Feature
Single-use inflation-instrument			
96481	60	15	3-way-stopcock

REF	Injection	Lumens	Ø catheter Fr.	Ø ballon mm	Working length mm
Stone Extraction Balloons					
SRB-T-9/12/15-20	Above (distal end of catheter)	3	7	9 / 12 / 15	2000
SRB-T-12/15/18-20	Above (distal end of catheter)	3	7	12 / 15 / 18	2000
SRB-T-15/18/21-20	Above (distal end of catheter)	3	7	15 / 18 / 21	2000
SRB-T-9/12/15-20-B	Below (towards handle-side)	3	7	9 / 12 / 15	2000
SRB-T-12/15/18-20-B	Below (towards handle-side)	3	7	12 / 15 / 18	2000
SRB-T-15/18/21-20-B	Below (towards handle-side)	3	7	15 / 18 / 21	2000

Recommended guidewires: MTN-BM 89/45-A (0.035 straight) und GW11-222.035.450 (0.035 straight)
 Packaging unit: 1 piece

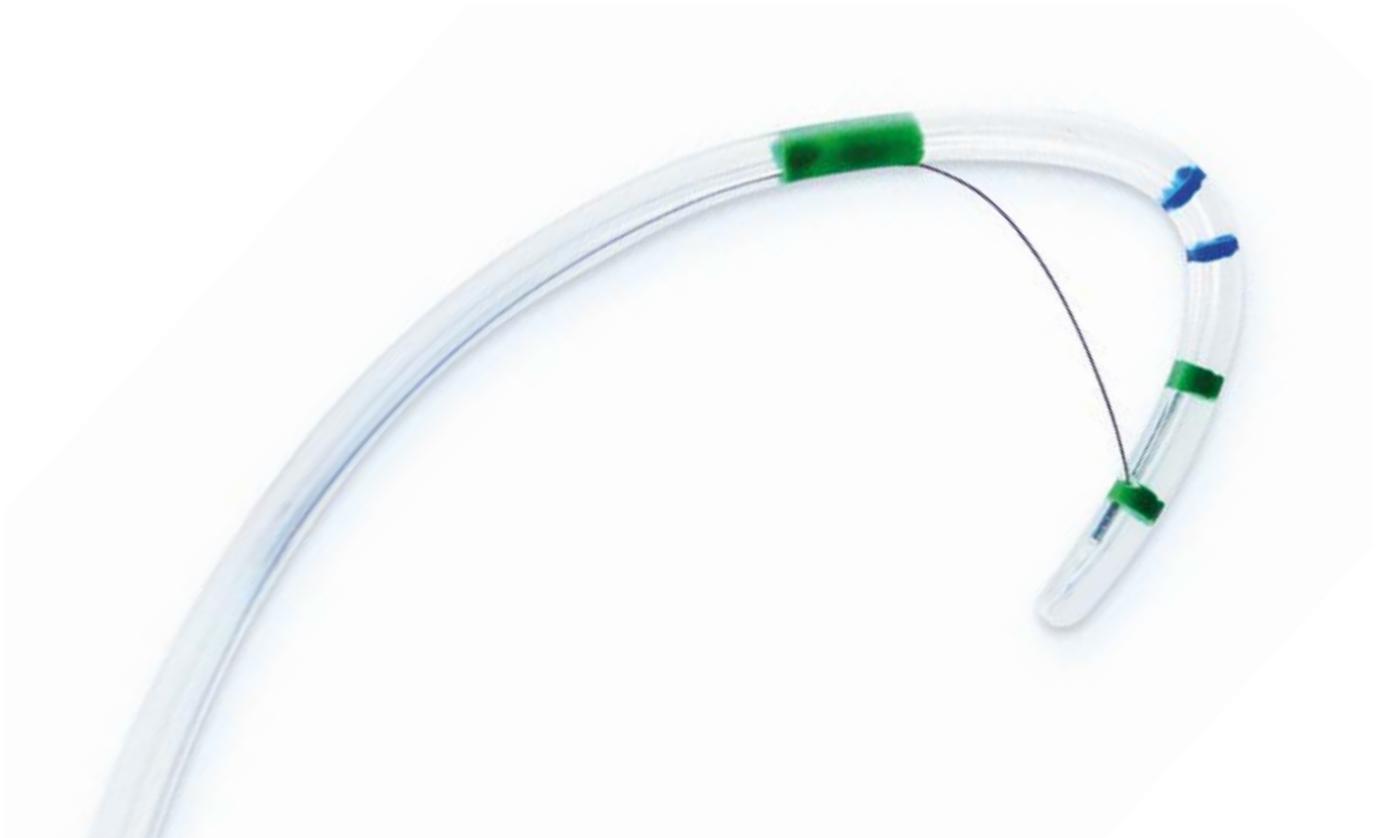




ERCPC

Papillotomes, balloons, guide wires and baskets.





3-lumen Papillotome.

The excellent alternative from MICRO-TECH.

Positioning, canalization and resection are the decisive features of a safe and successful papillotomy. The 3-lumen papillotome from MICRO-TECH meets these requirements in every way: Emergence from the working channel in the correct position, the atraumatic tip is tapered to 5 Fr, supports canalization and the resection is done reliably in the 11 o'clock direction.

Maximum safety during resection is also provided by optional proximal insulation of the cutting wire. The three lumens for cutting wire, guide wire and contrast agent provide for a high level of safety and efficient contrast agent dosing. Thanks to the ergonomic 3-ring grip, this papillotome is highly user-friendly and easily controlled.

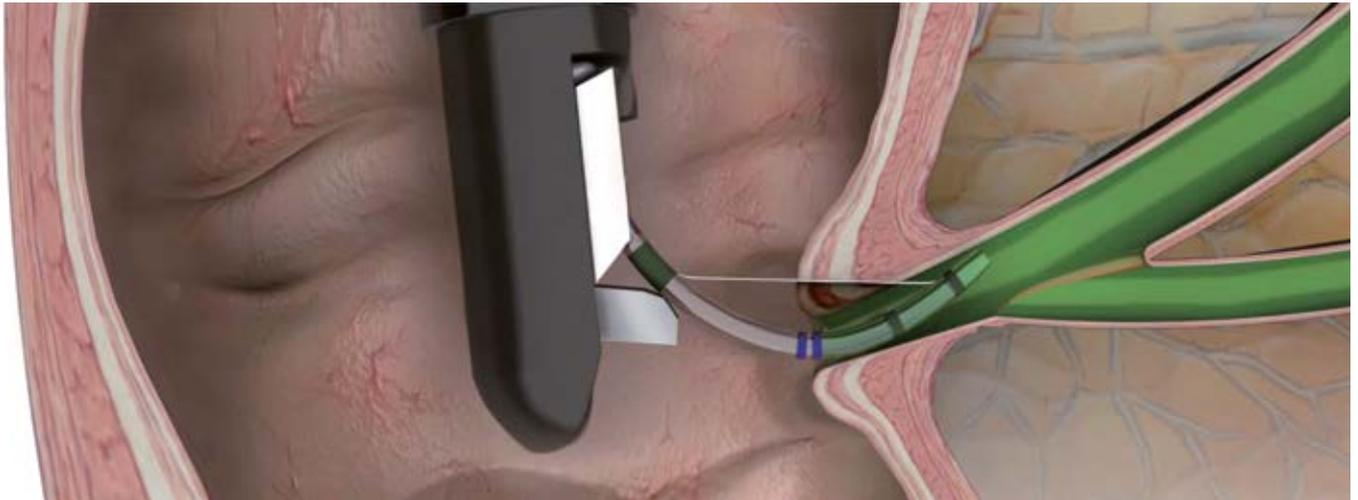
Specific characteristics:

- 3 lumens for guide wire, cutting wire and CA injection
- proximal insulation of cutting wire optional
- cutting direction 11 o'clock
- filiform tip, tapered to 5 Fr
- ergonomic 3-ring grip
- guide wire fully mobile up to 0.035 inch



Papillotome with grip





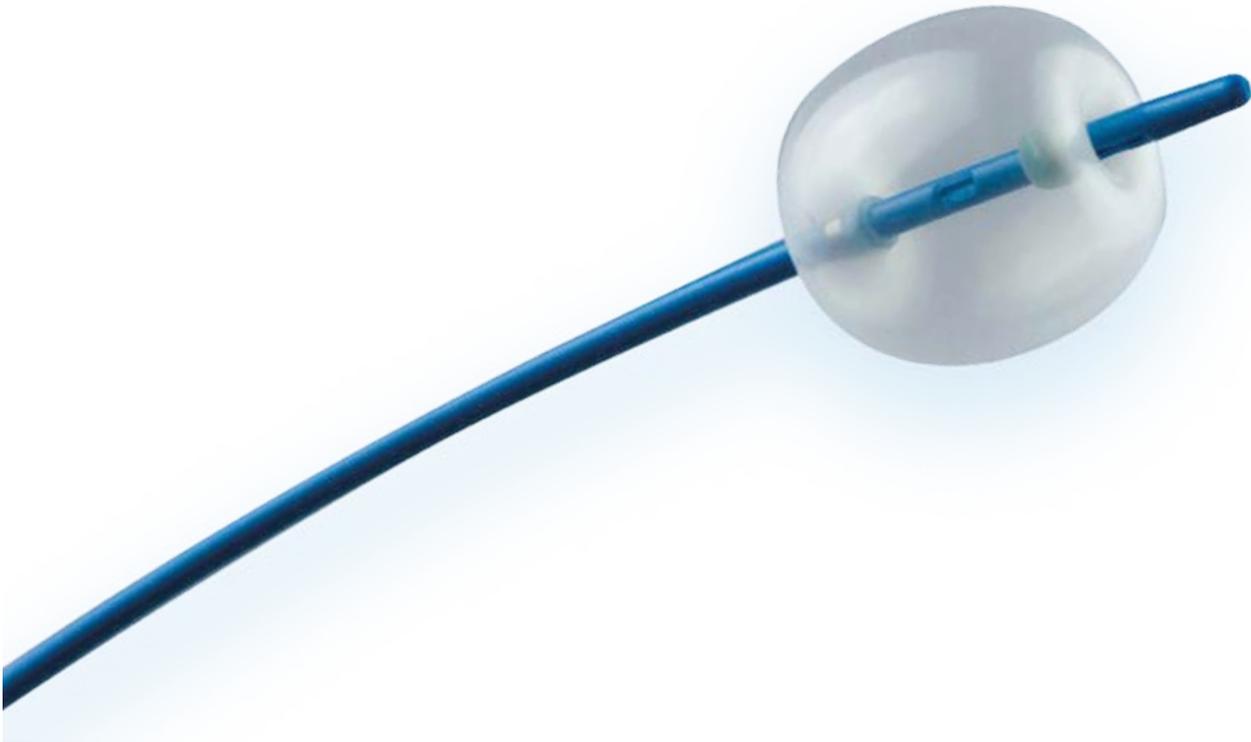
REF	Lumens	Tip length mm	Working length mm	Cutting wire length mm	Partly insulated cutting wire
Papillotome					
DSP-30525-111111	3	5	2000	25	no
DSP-30225-111111	3	2	2000	25	no
DSP-30025-111111	3	0	2000	25	no
DSP-30525-111211	3	5	2000	25	yes

Recommended guide wires 0.035": MTN-BM 89/45-A (straight), GW11-222.035.450 (straight), GW11-223.035.450 (J-tip)

Recommended guide wires 0.025": MTN-BM 63/26-A (straight), GW11-216.025.450 (straight)

Packaging unit: 2 pieces





Stone Extraction Balloons.

One balloon, three diameters.

The product range from MICRO-TECH includes high-quality 3-lumen extraction balloons for reliable removal of small stones and sludge from the bile duct. The conical, atraumatic tip of the catheter makes for easy, precise positioning using the two x-ray marks. The cylindrical balloon itself is made of high-quality latex and can be expanded to three different diam-

eters. A specially calibrated single-use syringe is supplied for each balloon diameter. Following insufflation, the balloon surface lies flat against the bile duct wall, enabling efficient and complete cleaning of the bile duct. A separate lumen for an 0.035 Inch guide wire, and one for the contrast agent, provide for ease of handling and contrast agent dosing.

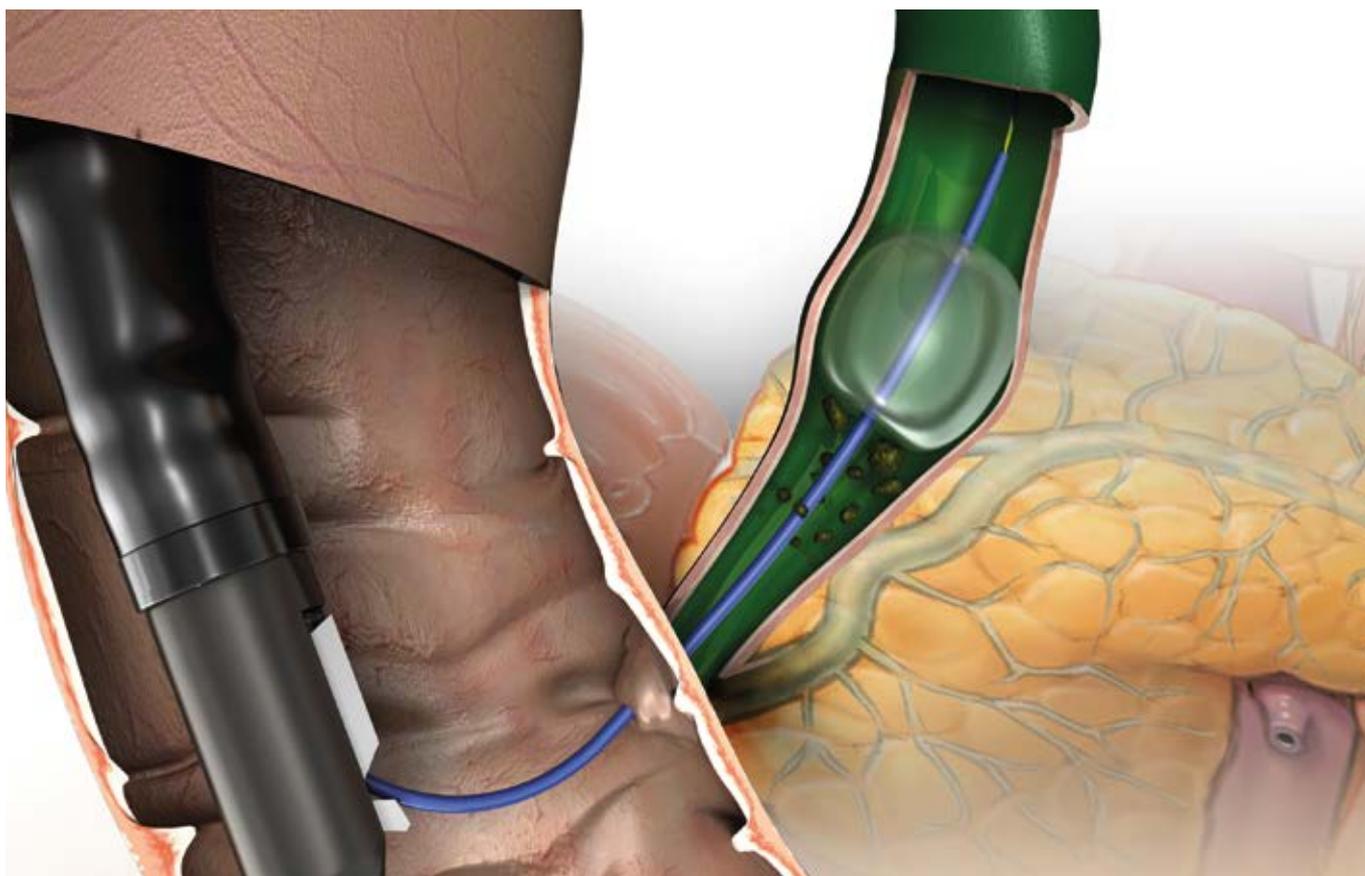
Specific characteristics:

- 3-stage balloons
- one calibrated tip per diameter
- high-quality latex
- 3 lumens for insufflation, guide wire and contrast agent
- good x-ray visibility (radiopacity)



3-lumen stone extraction balloon from MICRO-TECH





REF	Content ml air/liquid	Max. pressure ATM	Feature
Single-use inflation-instrument			
96481	60	15	3-way-stopcock

REF	Injection	Lumens	Ø catheter Fr.	Ø ballon mm	Working length mm
Stone Extraction Balloons					
SRB-T-9/12/15-20	Above (distal end of catheter)	3	7	9 / 12 / 15	2000
SRB-T-12/15/18-20	Above (distal end of catheter)	3	7	12 / 15 / 18	2000
SRB-T-15/18/21-20	Above (distal end of catheter)	3	7	15 / 18 / 21	2000
SRB-T-9/12/15-20-B	Below (towards handle-side)	3	7	9 / 12 / 15	2000
SRB-T-12/15/18-20-B	Below (towards handle-side)	3	7	12 / 15 / 18	2000
SRB-T-15/18/21-20-B	Below (towards handle-side)	3	7	15 / 18 / 21	2000

Recommended guidewires: MTN-BM 89/45-A (0.035 straight) und GW11-222.035.450 (0.035 straight)
 Packaging unit: 1 piece





Guide wires.

First choice for ERCP.

All guide wires are manufactured out of bending-resistant and torsion-proof Nitinol. Owing to their hydrophilic tips, they safely find their way. This is supported by the wire's high rigidity and controllability. Therefore they are perfectly suited for ERCP. The high radiopac-

ity of the flexible hydrophilic tip ascertains an exact placement under visual radiological control. Two series are available: the Classic-series made in Germany and the Eco-series from MICRO-TECH as a cost-efficient alternative.

Specific characteristics:

- non-kinking nitinol wire
- high level of rigidity and guidability
- hydrophilic, atraumatic tip
- working length: 4500 mm
- high level of radiopacity



Wire with straight tip



Wire with J-tip



Successful in practical routine work.

Bending resistance and rigidity account for the very good feeding properties of Medgic Wire. In daily applications they convince by their precision, which is primarily guaranteed by the efficient transmission of the rotatory and translatory motion all the way to the tip of the wire, as applied by the surgical assistant. This makes it possible to reach into even anatomically difficult passages with ease. In addition, the tip of each wire can be perfectly seen in the X-ray control image, allowing for optimal stent positioning.



Endoscopic view



X-ray

Dispenser for easy operation.

The wire can be easily ejected and retracted by means of this innovative dispenser. Owing to its compact design, the dispenser is handy and easy to operate. Rinsing the wire is also easy and fast when using the dispenser.



Dispenser Classic guide wires



Dispenser Eco guide wires

REF	Ø inches	Total length mm	Tip length mm	Tip form	Configuration	Design
Classic guide wire						
GW11-207.035.420	0.035"	4200	130	straight	hydrophilic, radiopaque	extra stiff
GW11-216.025.450	0.035"	4500	65	straight	hydrophilic, radiopaque, marks	black covering
GW11-222.035.450	0.035"	4500	85	straight	hydrophilic, radiopaque	blue-yellow covering
GW11-223.035.450	0.035"	4500	85	J-tip	hydrophilic, radiopaque	blue-yellow covering
GW11-225.035.450	0.035"	4500	50	straight	hydrophilic, radiopaque	blue-yellow covering
GW11-226.035.450	0.035"	4500	50	J-tip	hydrophilic, radiopaque	blue-yellow covering
Eco guide wire						
MTN-BM-89/45-A	0.035"	4500	60	straight	hydrophilic, radiopaque	blue-yellow covering
MTN-BM-89/45-A-J	0.035"	4500	60	J-tip	hydrophilic, radiopaque	blue-yellow covering
MTN-BM-63/45-A	0.025"	4500	60	straight	hydrophilic, radiopaque	blue-yellow covering
MTN-BM-63/45-A-J	0.025"	4500	60	J-tip	hydrophilic, radiopaque	blue-yellow covering
MTN-BM-53/45-A	0.021"	4500	60	straight	hydrophilic, radiopaque	blue-yellow covering
MTN-BM-45/45-A	0.018"	4500	60	straight	hydrophilic, radiopaque	blue-yellow covering

Packaging unit: GW11: 1 piece, MTN-BM: 2 pieces





Stone and Lithotripsy Basket Extractor.

Reliable management of bile duct stones.

With this high-quality, lithotripsy-capable basket from bauer medical, stones can be removed rapidly and reliably. The pre-determined breaking point provides a maximum level of safety in lithotripsy. The quality of the Vario Stone and Lithotripsy Basket Extractor is unique, with a continuous opening range from 15 to 25 mm or 20 to 30 mm. 150 degree rotation for inser-

tion and withdrawal both facilitates and accelerates gallstone retrieval. Whereas the atraumatic tip of the stone basket extractor supports insertion into the bile duct and minimizes mucosal injuries, the pull-through lithotripsy baskets can be brought into position exactly, and reliably, behind the stone.

Specific characteristics:

- fixed pre-determined breaking point
- smooth wire with optimized gliding quality
- ergonomic grip for improved tactile feeling
- stone extractor basket with atraumatic tip
- vario basket



Atraumatic tip gentle to working channel and mucosa



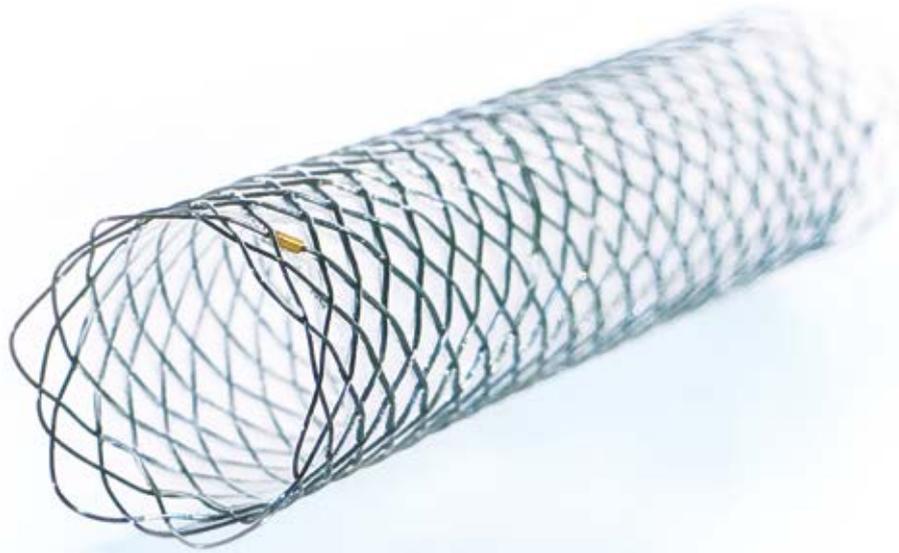
Highly mobile grip for precision insertion and extraction



REF	Form	Specification	Ø Basket mm
Disposable baskets, pull rope-length 200 cm			
BK1-B10-25-23-200	vario	multifilament, 150°-rotation, protection head	15 / 25
BK1-B10-30-23-200	vario	multifilament, 150°-rotation, protection head	20 / 30
BK1-B20-20-23-200	hexagonal	multifilament, 4 rope, protection head	20
BK1-B20-25-23-200	hexagonal	multifilament, 4 rope, protection head	25
BK1-B20-30-23-200	hexagonal	multifilament, 4 rope, protection head	30
BK1-B20-35-23-200	hexagonal	multifilament, 4 rope, protection head	35
BK1-B21-35-23-200	hexagonal	4 rope, half coiled	35
BK1-B22-20-23-200	hexagonal	4 rope, full coiled	20
BK1-B22-25-23-200	hexagonal	4 rope, full coiled	25
BK1-B22-30-23-200	hexagonal	4 rope, full coiled	30
BK1-B22-35-23-200	hexagonal	4 rope, full coiled	35
Disposable guide wire baskets, pull rope-length 200 cm			
BK1-B90-25-27-200	combi- hexagonal	multifilament, retractable tip	15 / 25
Disposable lithotripsy baskets, pull rope-length 400 cm			
LT1-B10-25-23-400	vario	multifilament, 150°-rotation, retractable tip	15 / 25
LT1-B10-30-23-400	vario	multifilament, 150°-rotation, retractable tip	20 / 30
LT1-B20-20-23-400	hexagonal	multifilament, retractable tip	20
LT1-B20-25-23-400	hexagonal	multifilament, retractable tip	25
LT1-B20-30-23-400	hexagonal	multifilament, retractable tip	30
LT1-B20-35-23-400	hexagonal	multifilament, retractable tip	35

Packaging unit: 5 pieces





Biliary duct stents.

Always the ideal solution.

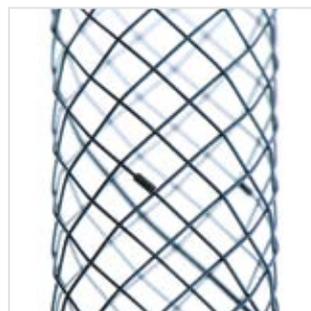
With the biliary stents manufactured by MICRO-TECH you will always make the ideal choice to bridge-graft biliary duct stenoses. The high expansion force of the Nitinol wire mesh accounts for an excellent positional stability. The resistant sheath prevents the stent from

growing into the tissue. The product range comprises two stent lines and offers a first-class solution that suits all requirements: the classic line and the platinum line. The comprehensive platinum line is especially distinguished by its extraordinary high radiopacity.

Specific characteristics:

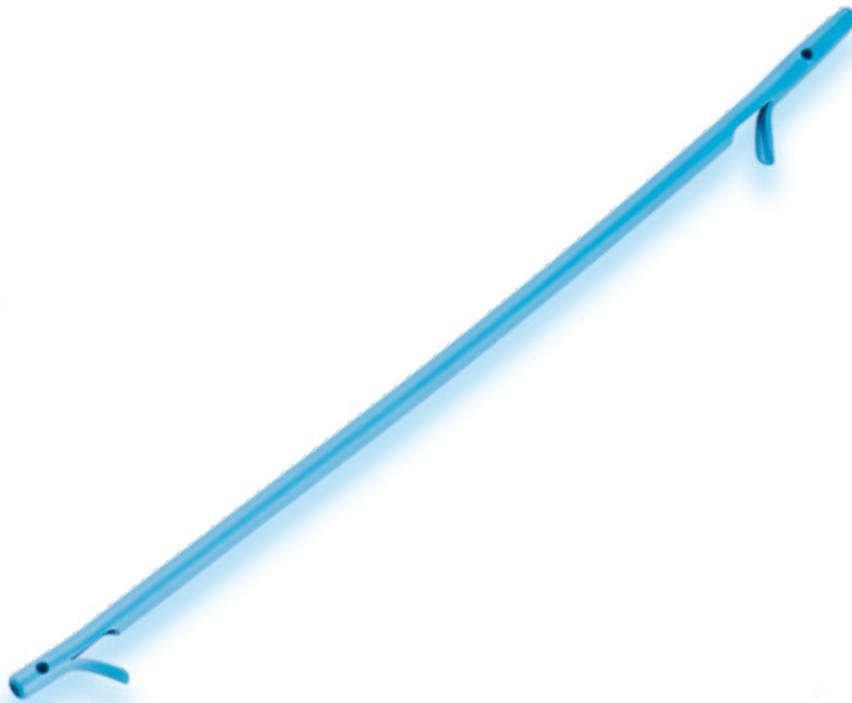
- self-expanding
- available for TTS and PTCD
- Classic- und Platinum-Line
- Nitinol wire mesh with atraumatic ends
- release under visual endoscopic control
- enormous position stability
- resistant and elastic cover
- high radiopacity
- guiding wire passable to a maximum of 0.035 inches

Please find more details about the biliary duct stents in the catalog "Stents gastrointestinal"



X-ray marking





Plastic biliary stents.

Maximum drainage, minimum migration.

For the short and medium term drainage in the bile duct MICRO-TECH keeps ready a comprehensive range of plastic stents. The stents are available in different shapes, lengths and diameters. Thus the ideal stent is at disposal for each indication. The high quality material (PE or PTFE) of the stent ensures reliable drainage and

adapts perfectly to the patient's anatomy to. Flaps at the ends of the stents also ensure a secure fit with minimal migration. For a quick and easy introduction the stents are also available preloaded on an introducer system and have tapered distal ends.

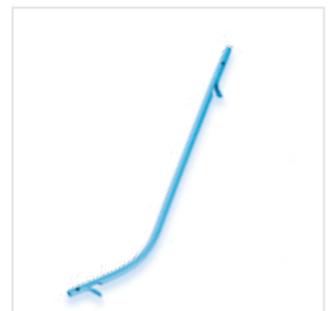
Specific characteristics:

- different shapes: straight, curved, angled, pigtail and double-pigtail
- optimum flowrate
- ideal adaptation to the anatomy
- secure grip, minimal migration
- many stents are available preloaded on introducer system
- good radiopacity

More details on page 36



Pigtail



Lateral angled

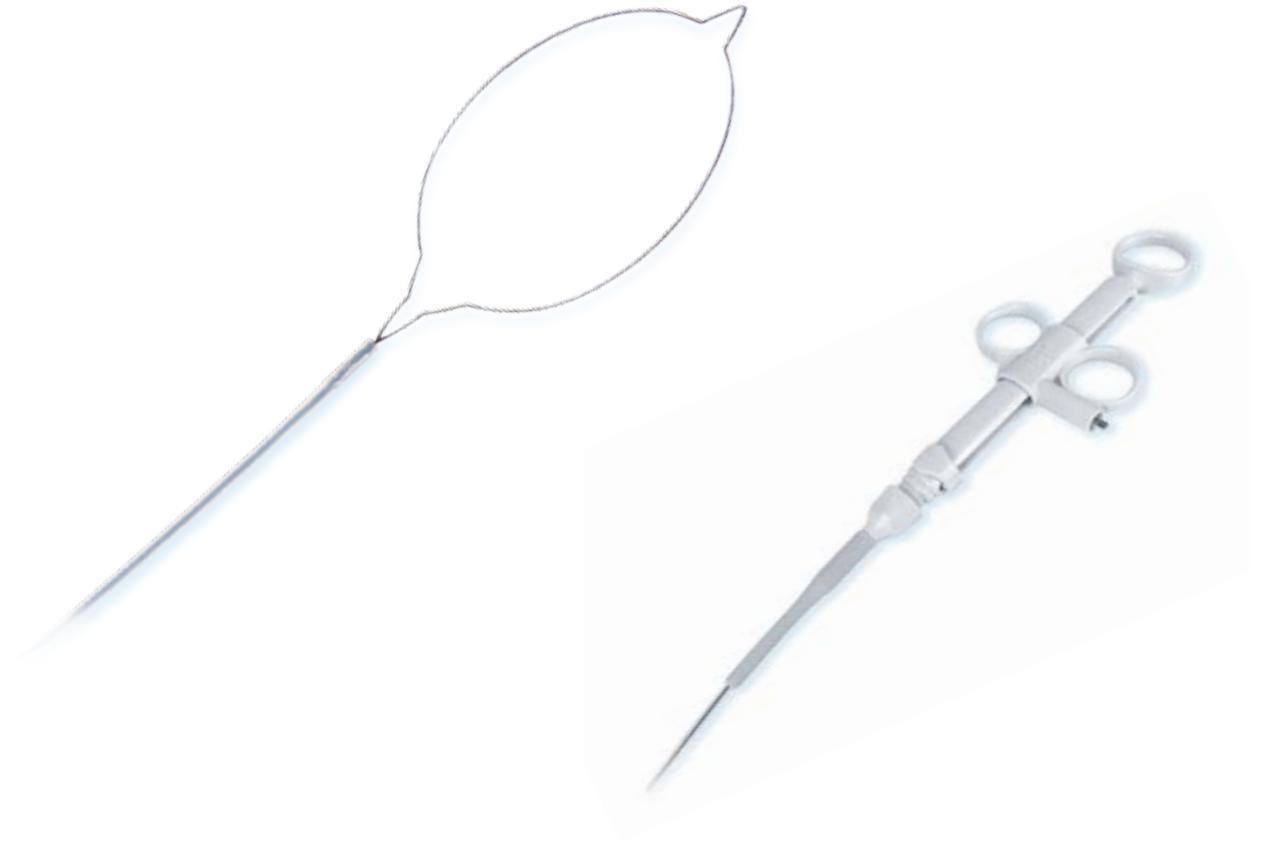




Polypectomy, ESD, EMR

Snare, needles and forceps.





DailySnare.

More comfort and reliability in everyday hospital routine.

In order to make the removal of polyps in everyday hospital routine as efficient as possible, MICRO-TECH has developed a program of disposable polypectomy snares which perfectly combines quality with cost effectiveness. Each oval snare is made of spe-

cially stranded wire, which convinces by its good radial force, high dimensional stability and precise cutting properties. The 3-ring-handle gives you a secure hold and transmits every movement reliably to the snare.

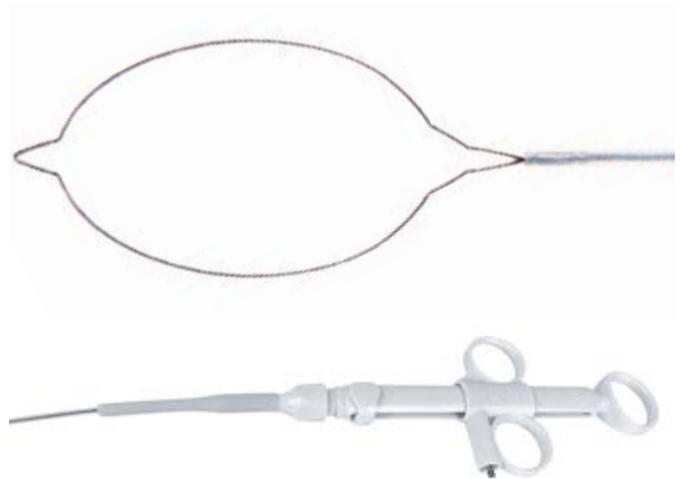
Specific characteristics:

- very comfortable to use
- reliable and safe
- innovative HF-connection
- ergonomic 3-ring handle
- excellent cutting characteristics
- high strength of shape



Successful in practical use.

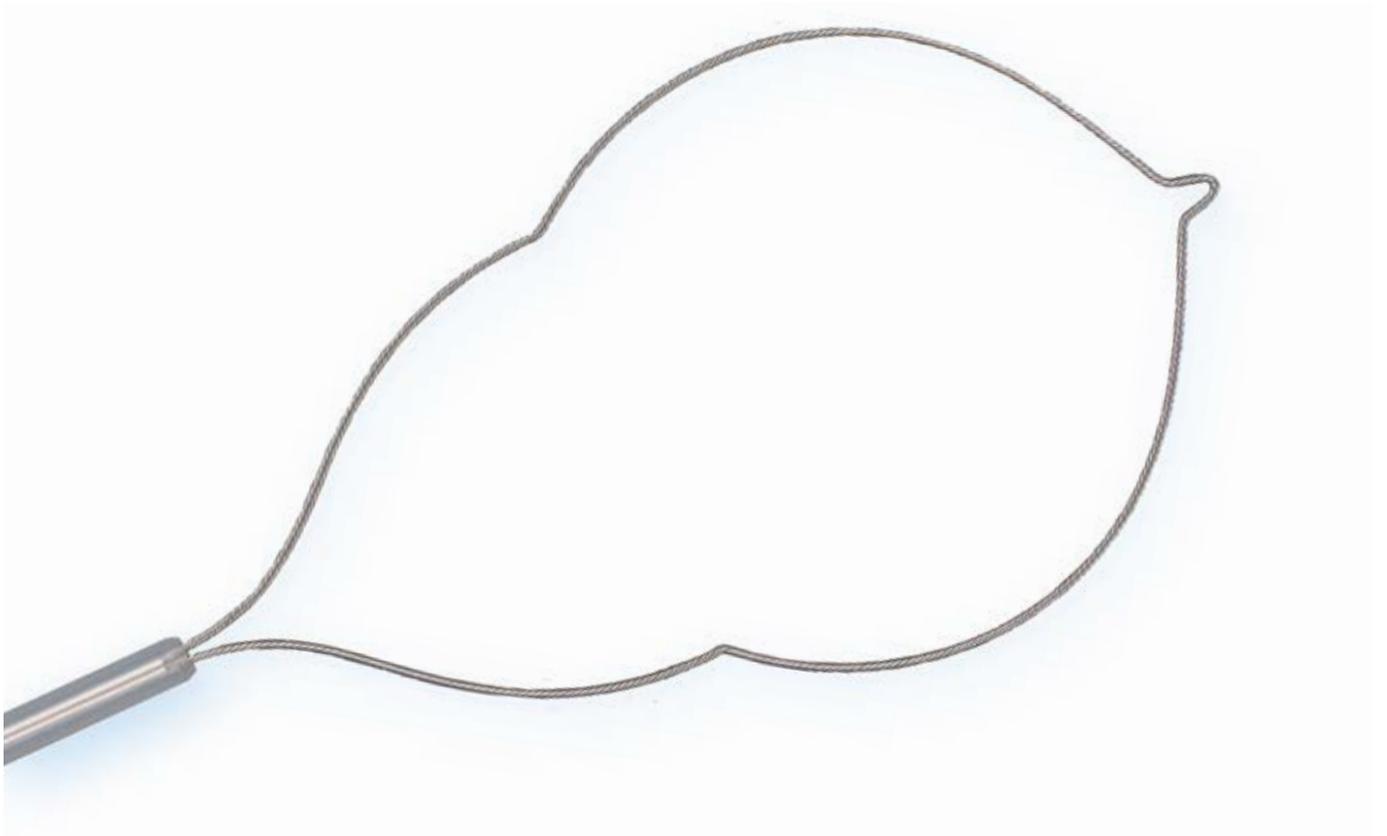
The special stranded wire of DailySnare endows the snare with the radial force it needs to open and be controlled in any position, easily and reliably. DailySnare has proved its worth as a reliable solution in daily routine work owing to its enormous dimensional stability and good cutting properties. Thanks to the new handle the snare can easily be opened and closed even if connected to the HF-cable.



REF	Catheter Ø mm	Length mm	Snare Ø mm	Snaretype
Polypectomy Snares				
PFS01-01023230	2.3	2300	10	oval
PFS01-01523230	2.3	2300	15	oval
PFS01-02023230	2.3	2300	20	oval
PFS01-02423230	2.3	2300	24	oval
PFS01-03623230	2.3	2300	36	oval
PFS01-12423230	2.3	2300	24	hexagonal
PFS01-22423230	2.3	2300	24	crescent
PFS01-33023230	2.3	2300	10/ 20/ 30	3 in 1 vario

Packaging unit: 10 pieces





Precision snares from bauer medical.

Monofil, combi, rotatable.

With the high-quality combi snares by bauer medical you always make the first choice for polypectomies. Thanks to the stepless one-handed operation, the removal of polyps is more reliable and easier. A slight twist from the wrist of the assistant is enough and the movement is passed exactly to the snare. During the

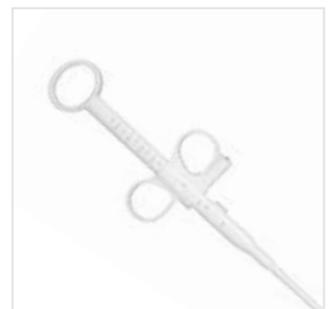
examination, the variable loop head can be adjusted from 25 mm to 15 mm and also has an atraumatically rounded catheter tip. The high expansion force of the snare in combination with the particularly balanced coagulation and cutting behavior ensures first-class results of the polypectomies.

Specific characteristics:

- ergonomic 3-ring handle
- stepless rotation through 360°
- for combi snares: variably adjustable loop sizes
- optimum adaptation even to the most difficult polyp localisations
- high expansion force
- precise coagulation and cutting behaviour



Snare partially and fully extended



Handle with HF connection for precise cutting



REF	Catheter Ø mm	Length mm	Snare Ø mm	Snaretype	Features
Snares from bauer medical					
PS1-A11-10-23-220-OL	2.3	2200	10	oval	wire; rotatable
PS1-A11-15-23-220-OL	2.3	2200	15	oval	wire; rotatable
PS1-A11-25-23-220-OL	2.3	2200	25	oval	wire; rotatable
PS1-A20-15-23-220-OL	2.3	2200	15	oval	monofil
PS1-A20-25-23-220-OL	2.3	2200	25	oval	monofil
PS1-A22-25-23-220-OL	2.3	2200	10/25	oval	monofil combi
PS1-A23-25-23-220-OL	2.3	2200	10/25	oval	monofil combi; rotatable
PS1-A31-20-23-220-OL	2.3	2200	10/20	oval	wire combi; rotatable
PS1-A31-30-23-220-OL	2.3	2200	15/30	oval	wire combi; rotatable
PS1-A60-30-23-220-OL	2.3	2200	30	TYPE ERLANGEN	flat wire/braided
PS1-A61-30-23-220-OL	2.3	2200	30	TYPE ERLANGEN	flat wire/braided; rotatable

Packaging unit: 10 pieces





Coldsnare.

Reliable resection of polyps < 10 mm.

The Coldsnare from MICRO-TECH is an instrument that is suitable above all for cold resection of polyps < 10 mm. This thin, braided cutting wire was specially developed for cold resection and make for a highly precise, clean cut in combination with the snare

design optimized for excision of small polyps. The excised polyp is free of thermal defects and ensures that the histological assessment will provide valuable information.

Specific characteristics:

- developed for polyps < 10 mm
- special cutting wire
- optimized snare design
- precise, uniform cut
- high level of control
- ergonomic grip



Precision grip with ergonomic design

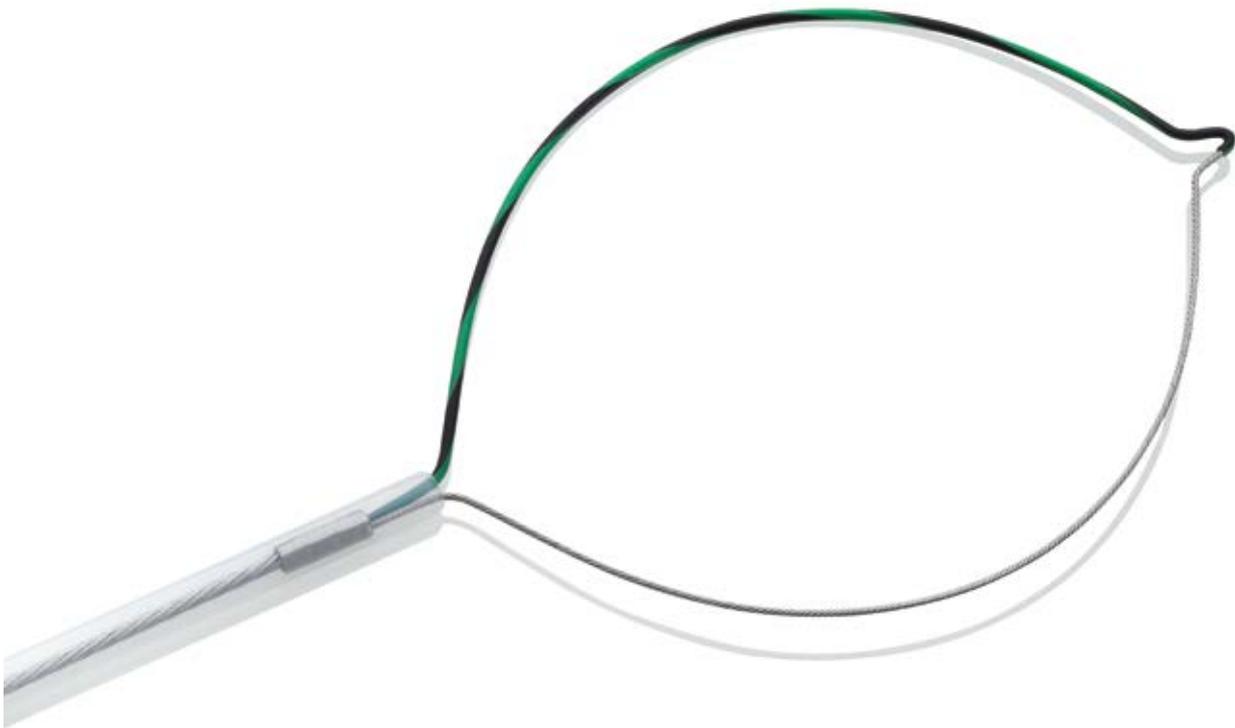




REF	Tube Ø mm	Length mm	Snare Ø mm	Snaretype	Wire Ø mm
Coldsnare					
CS3-11023230	2.3	2300	10	rhombus	0.23
CS3-11523230	2.3	2300	15	rhombus	0.23

Packaging unit: 10 pieces





ENDOx Polypectome.

Precise removal without organ damage.

The ENDOx Polypectomy Snare is characterized mainly by a cutting wire insulated on one side and the insulated nose. This makes it possible to reduce the use of HF-current by half. The system ensures reliable removal of polyps lying close to the organ wall

and makes the initial incision and cutting phases particularly efficient. Thermal damage of the muscularis propria and serosa are prevented, as are thermal artifacts on the resectate. The ergonomic 3-ring handle with tactile handling ensures controlled cutting.

Specific characteristics:

- minimization of initial incision delay
- minimum perforation risk
- endoscopic control
- precise snare-guiding
- ergonomic handle
- connection for the HF-cable



Ergonomical 3-ring handle with connection for Olympus HF-cable

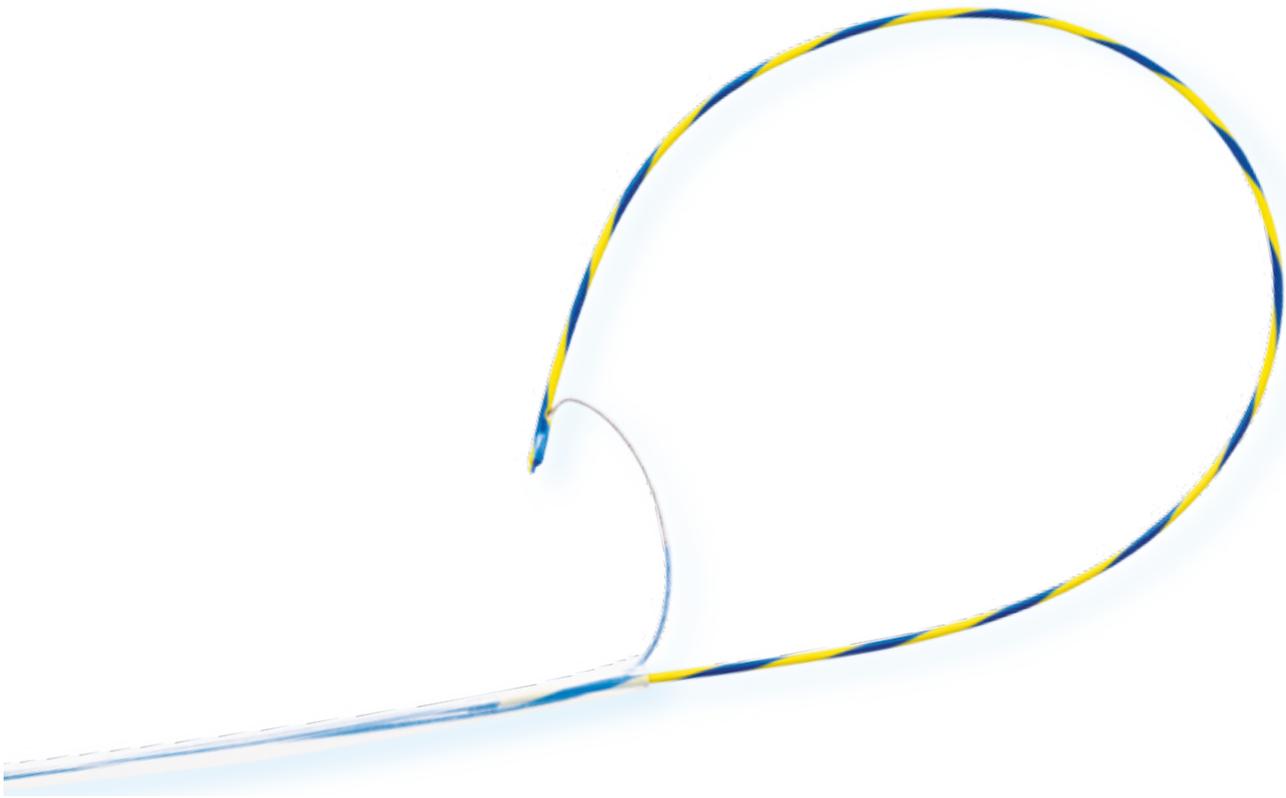


Removal

REF	Snaretype	Snare Ø mm	Length mm	Catheter Ø mm
ENDOx Polypectome				
901193	oval	20	2160	2.3
901107	oval	30	2160	2.3

Packaging unit: 2 pieces





FARIn-Instrument ESD/EMR.

For resections without thermal damage.

En bloc removal of larger lesions using conventional polypectomy snares incurs a risk of initial incision delay or failure of the cutting effect. This may result in thermal damage to the organ wall. The "Flat Adenoma Resection Instrument" (FARIn) takes a new approach. It is comprised of an effector loop that can be opened and closed like a polypectomy snare. The

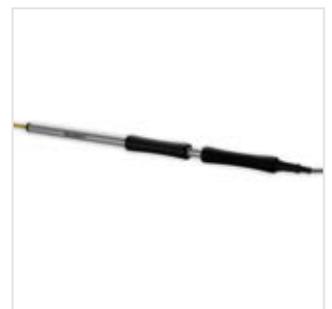
unique instrument design combines a spring-loaded, electrically insulated tensioning bow with a short, HF-activated surgical cutting wire. With this design, even large mucosal polyps or lesions can be removed reliably at low current strength levels – without initial incision delay or thermal damage to the organ wall.

Specific characteristics:

- symmetrical and asymmetrical instrument
- low intensity of effective HF-current
- short, HF-activated surgical cutting wire
- shorter duration of resections
- controlled cut with marking on the cutting wire and transparent catheter



Type C: Symmetrical design with insulated nose

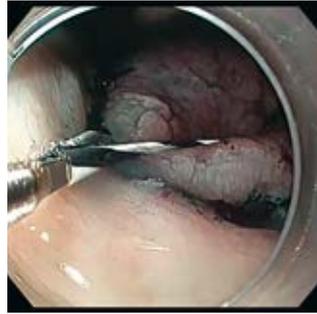


Handle with HF-connection for precise incision





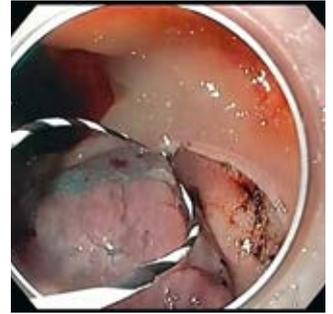
Positioning of the FARIn type "C" snare for resection



Start of the positioning of the FARIn type "C" snare



FARIn type "C" snare optimally positioned for the resection



Positioning of the FARIn type "C" after incision of the lesion

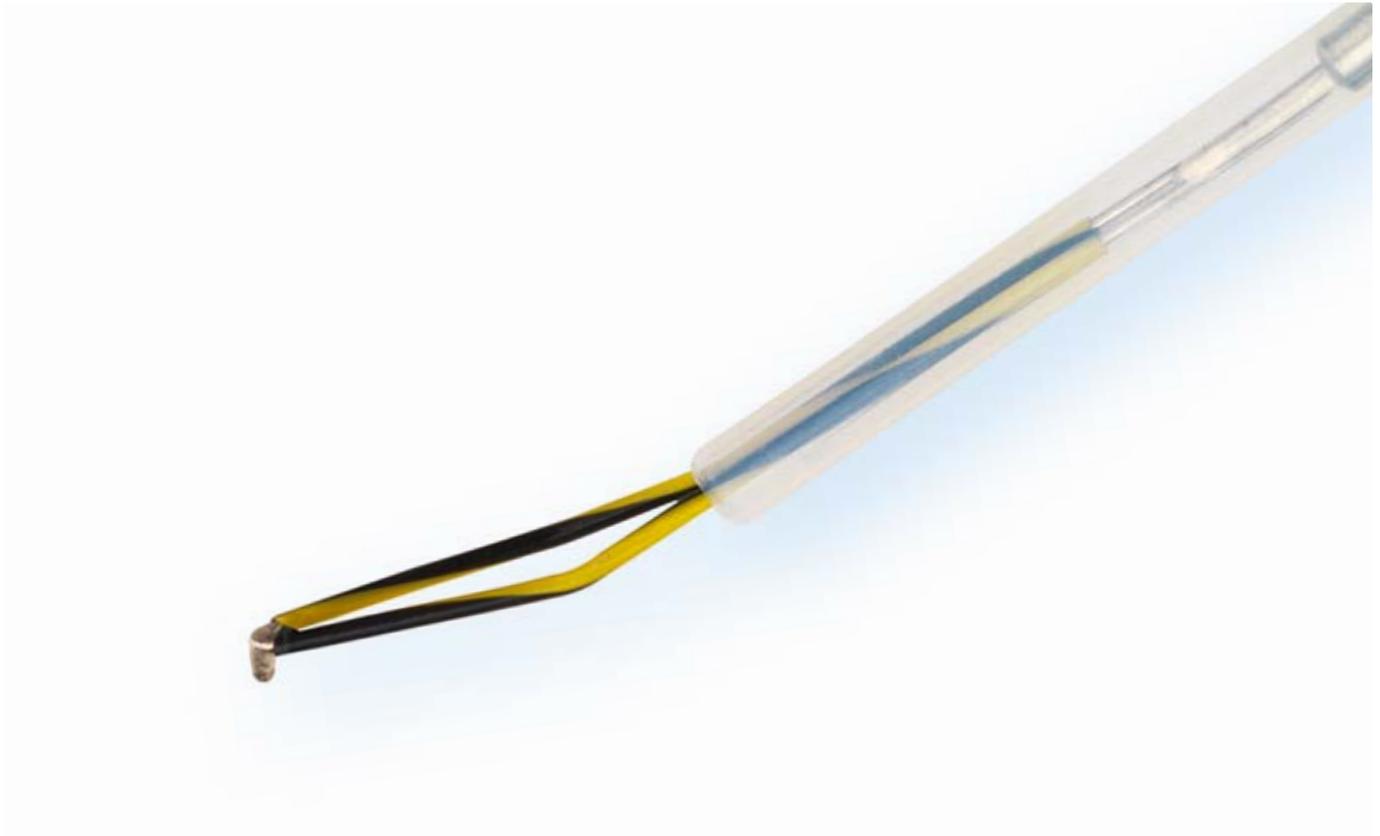
REF	Form	Max. diameter of instrument mm	Length cutting wire mm	Length mm	Catheter Ø mm
FARIn-Snare Type A/B/C					
Typ A: 901066	asymmetrical	25	15	2000	2.3
Typ B: 900698	asymmetrical	45	15	2000	2.3
Typ C: 900991	symmetrical	30	15	2000	2.3
Typ C: 901113	symmetrical	20	15	2000	2.3

Packaging unit: 1 piece

REF	Description
HF-cable	
901186	Monopolar cable, Ø connector 4 mm, length 400 cm

Packaging unit: 1 piece





FARIn type U.

Secure excision of the mucosa before ESD and ESR.

The "Flat Adenoma Resection Instrument" (FARIn) type U is for safe endoscopic excision of lesions of the mucosa prior to an endoscopic submucosal dissection (ESD) or an endoscopic submucosal resection (ESR). By applying low pressure, the electrically insulated glide-skid of the FARIn instrument type U auto-

matically aims against the tissue surface so that the cutting needle is oriented vertically to the tissue. The vertical depth of the cut is limited by the glide-skid and corresponds to the length of the HF-surgical cutting needle of 1-2 mm. Deeper cuts may be achieved by multiple incisions in the same kerf.

Specific characteristics:

- safe excisions
- incision possible in all directions
- insulated glide-skid
- cutting depth of between 1 and 2 mm

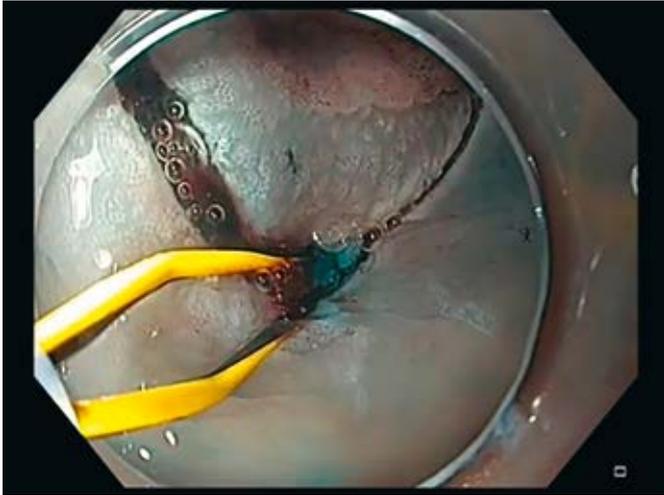


Ergonomic handle with axial HF-cable



Isolated glide-skid with electro-surgical cutting needle





Incision with FARIn type "U"

REF	Length cutting needle mm	Catheter Ø mm	Length mm
FARIn Type U			
901117	1.0	2.3	2000
901171	1.5	2.3	2000
901172	2.0	2.3	2000

Packaging unit: 1 piece

REF	Description
HF-cable	
901186	Monopolar cable, Ø connector 4 mm, length 400 cm

Packaging unit: 1 piece





Injection needle IN.

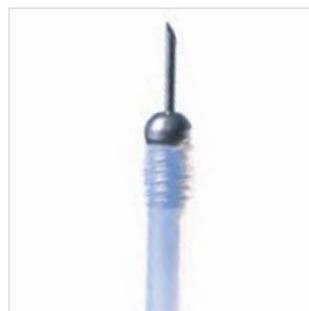
Reliable and safe to the tip.

The disposable MICRO-TECH injection needles facilitate clinical practice due to its ergonomic handle and especially sharp needle. The anti-skid design guarantees convenient control with just one hand.

For even more precise punctures the needle can be locked in several stages. When the needle is released, it snaps back into the catheter to avoid damage to the working channel.

Specific characteristics:

- ergonomic anti-slip handle
- adjustable pressure pad
- automatic needle-feed
- atraumatic distal metal head
- needle with extremely sharp, precision cut
- different needle diameters
- LL needle connector

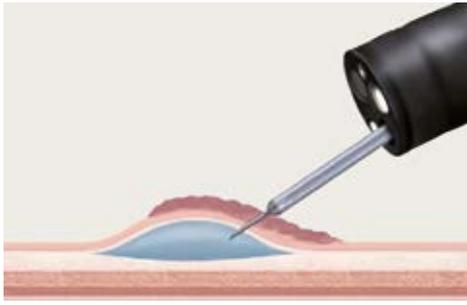


Metal head with precise needle



Compact ergonomical design





REF	Ø mm	Length mm	Ø Needle mm	Needle stroke mm
Injection-needle IN				
IN12-195232302	2.3	2300	19 G = 0.9 mm	5
IN12-225232302	2.3	2300	22 G = 0.7 mm	5
IN12-255232302	2.3	2300	25 G = 0.5 mm	5

Packaging unit: 10 pieces

Injection-needle Safety Needle SN.

Precision with a unique safety concept.

With the injection needles from bauer medical, punctions become safer and more precise than ever. On one hand, it is the newly developed handle with a particularly ergonomic shape which ensures more tactile feel and an audible locking. On the other hand, it is the special bevel-style grinding of the needle, allowing for highly precise punctions, even under difficult

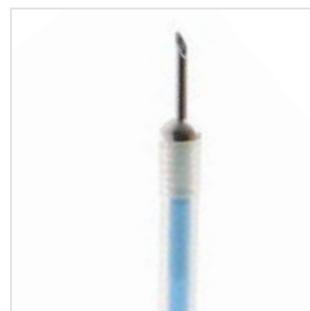
conditions. Matching the specifications of the UVV for enhanced safety, this injection needle provides even more protection: Upon completion of the application the proximal handle can be kinked at a defined breaking point. The forced retention of the needle in the tip of the catheter helps to avoid injuries.

REF	Needle stroke mm	Ø Needle mm	Ø Tube mm	Length mm
Injection-needle Safety Needle SN				
SN1-I10-505-18-120	5	0.5	1.8	1200
SN1-I10-505-18-180	5	0.5	1.8	1800
SN1-I10-507-23-230	5	0.7	2.3	2300
SN1-I10-509-23-230	5	0.9	2.3	2300

Packaging unit: 10 pieces, relay prices on request

Specific characteristics:

- handle with tactile ergonomics
- needle with special bevel-style grinding
- distal protector head for needle tip
- CLICK noise when inserting and retracting the needle
- unique safety concept for non-injurious disposal
- needle diameter of 0.5 / 0.7 / 0.9 mm



Catchable needle with metal protector head



Ergonomical handle with defined breaking point





Hot biopsy forceps.

Take biopsates and stop bleeding.

MICRO-TECH unites several therapeutic working steps with its practical 2-in-1 solution. On one hand, the hot biopsy forceps serve as a conventional hot forceps, removing small colonic polyps precisely and safely in active mode and taking diagnostically conclusive tissue samples in non-active mode. On the other hand,

they serve as an urgent measure for stopping bleeding, since the smallest lesions can be closed again at any time via coagulation current. The hot biopsy forceps are unparalleled by other forceps in their suitability for treatment of patients with an increased risk of bleeding.

Specific characteristics:

- reliability
- safety
- very comfortable to use
- high quality riveted scissors joints
- puncture-proof PTFE insulation
- 3-ring handle with Olympus HF-connection
- excellent cutting characteristics



HF-connection

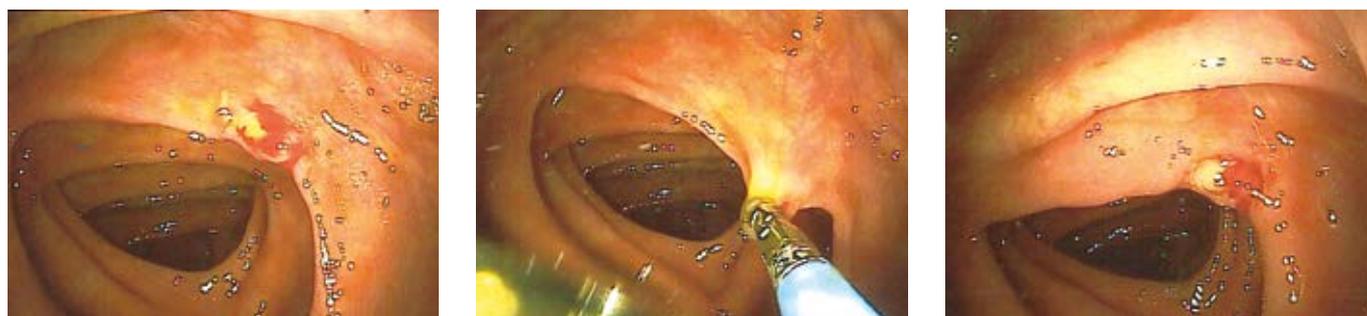


Scissors joint

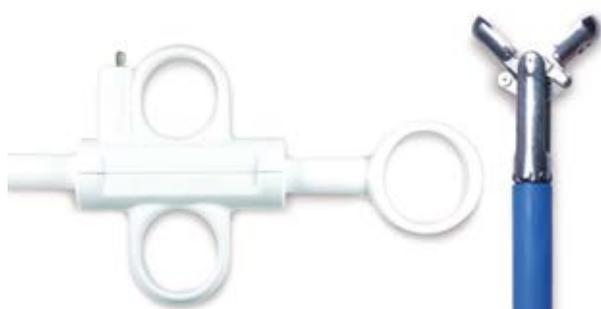


Successful in practical use.

The hot biopsy forceps from MICRO-TECH are particularly suitable for use in patients with an increased risk of bleeding. If bleeding occurs during tissue sampling or polyp removal, this can be treated immediately and stopped via coagulation current.



Hot biopsy forceps in endoscopic use



Target-oriented use of power.

The 3-ring handle is equipped with an Olympus HF-connection for safe and controlled power supply. The PTFE insulation of the metal coil is impact-resistant and prevents current conductive contact with the tissue.

REF	Ø mm	Length mm	Spike	Insulated	Jaw
Hot-biopsy forceps with coating					
HBF05-11018120	1.8	1200	no	yes	standard
HBF05-11018180	1.8	1800	no	yes	standard
HBF05-11023180	2.3	1800	no	yes	standard
HBF05-11023230	2.3	2300	no	yes	standard

Packaging unit: 10 pieces

Please find our range of standard forceps in the dedicated catalog





Haemostasis

Clips, EndoClot, needles, forceps
and ligation-systems.





SureClip™.

With spans of 16, 11 and 8 mm.

The innovative SureClips™ from MICRO-TECH combine precise positioning with a reliable holding force. Thus, the system is equally well suited for effective hemostasis as for endoscopic marking. The clip can be rotated 360° and be repeatedly opened and closed, which facilitates enormously the exact repositioning of the clips. Three versions are available: The SureClip™ Plus model with a span of 16 mm and fenestrated jaws and two other versions with 11 or 8 mm wingspan.

Another advantage of the SureClip™ is the length of the remaining segment. Compared to all other available clip systems, the remaining segment with only 5 or 6 mm is up to 60% shorter than with other clips. This is particularly advantageous in the case of the application of more than one clip because the brevity of the segment facilitates an additional application significantly.

Specific characteristics:

- 360° rotation for precise placement
- maximum span of 16 mm
- repeated opening and closing possible
- very good holding force
- smooth handling, also in difficult anatomy
- ease of operation



Short stem lengths



The clips allow reopening and closing





Colored handles for easy recognition.

To recognize the different sizes SureClip™ quickly and easily, each size has uniquely colored handles and coating.



Eco-Clip as a cost-saving alternative.

The uncovered Eco-Clips with a one-ring handle, left-hand-only rotation, reclosable and repositionable are a cost-saving alternative to the SureClips™ and multi-clip systems.



REF	Clip opened mm	Length mm	Clip angle	Clip Ø mm	Covering
SureClip™ Plus					
ROCC-F-26-195-C	16	1950	135°	2.6	yellow
ROCC-F-26-230-C	16	2300	135°	2.6	yellow
SureClip™					
ROCC-D-26-195-C	11	1950	135°	2.6	blue
ROCC-D-26-230-C	11	2300	135°	2.6	blue
SureClip™ Small					
ROCC-C-26-195-C	8	1950	135°	2.6	pink
ROCC-C-26-230-C	8	2300	135°	2.6	pink
Eco-SureClip™					
ROCC-D-26-195	11	1950	135°	2.6	without
ROCC-D-26-230	11	2300	135°	2.6	without

Packaging unit: 10 pieces





EndoClot™.

The revolutionary solution for hemostasis.

EndoClot™ PHS is the innovative technique for hemostasis in endoscopy. The AMP® particles obtained in a patented manufacturing process extract water from blood extremely fast. Thus the clotting process

is accelerated and the protective gel matrix enables a reliable hemostasis - especially in cases where conventional methods can not be applied.

Specific characteristics:

- for gastroscopy and colonoscopy
- also for new therapeutical solutions
- application under endoscopical sight
- easy set-up and handling
- direct application to the bleeding site
- natural degradation of the particles



Direct and precise application

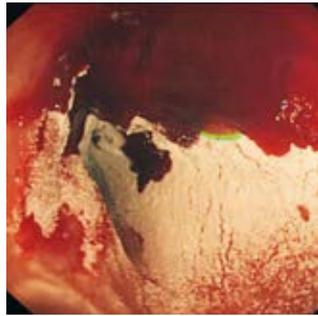


Complete system with air compressor

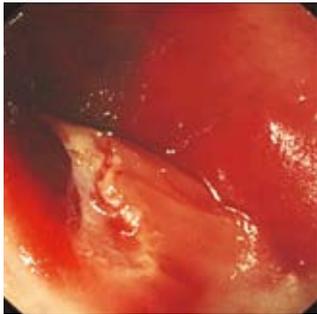




A



B

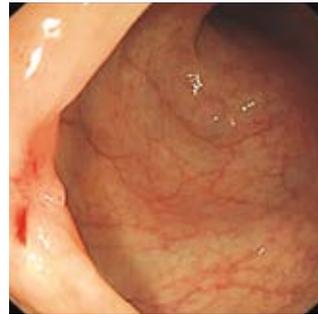


C



D

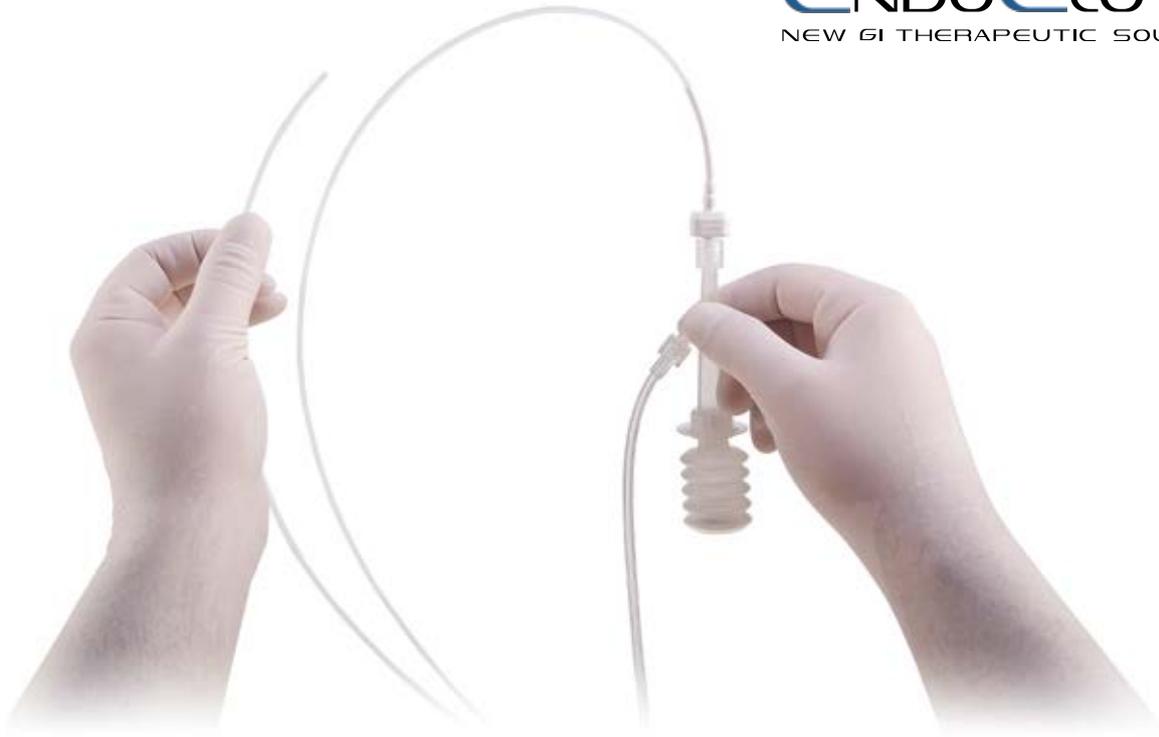
- A EMR was applied to remove the colon adenoma
- B AMP® particles were applied to control heavy postoperative bleeding
- C A gel-like barrier formed to "seal" the bleeding wound
- D 48 hour reexamination – clean wound
- E 1 month reexamination – wound healed completely



E

REF	AMP® Particles	Catheter length mm	Catheter Ø mm	Packaging unit
EndoClot™ Set (Catheter + Particles)				
EPK2303	3g	2300	2.3	1 Set/PU
EndoClot™ Catheter				
EPAA230	-	2300	2.3	5 pc./PU
EndoClot™ Compressor				
EPAC-1	-	-	-	1 pc./PU
EndoClot™ Compressor connecting tube				
EPAC-1T	-	1550	-	10 pc./PU





New Generation

EndoClot™ Adhesive.

Synthetic. Quick acting. Long lasting.

With EndoClot™ Adhesive MICRO-TECH expands the range for reliable hemostasis in endoscopy. The system enables to spray adhesive haemostatic polymers (AHP) in powder form efficient, safe and directly onto the wound. The particles form a protective gel matrix

in a very short time, that stops bleeding and seals lesions. In comparison to the established EndoClot™ AMP the new EndoClot™ AHP adheres to the wound for a particularly long time and is resistant to acids and bases thanks to its synthetic composition.

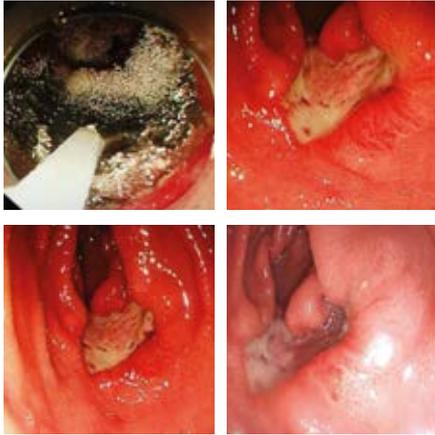
Specific characteristics:

- Synthetic polymer
- Forms an adhesive gel matrix to protect the wound
- Waterproof and resistant to acids and bases
- Lasts up to several days on the wound
- Successful haemostasis also in anticoagulated patients



Direct and precise application





Versatile in use.

EndoClot™ AHP can be used to effectively control bleeding in the upper and lower gastrointestinal tract. Even then, when conventional methods cannot be used.

- After interventions such as EMR/ESD
- For ulcer bleeding
- For significant reduction of secondary bleeding
- Post polypectomy
- Tumor bleedings Mallory-Weiss bleedings

Successful hemostasis according to ESD and EMR.

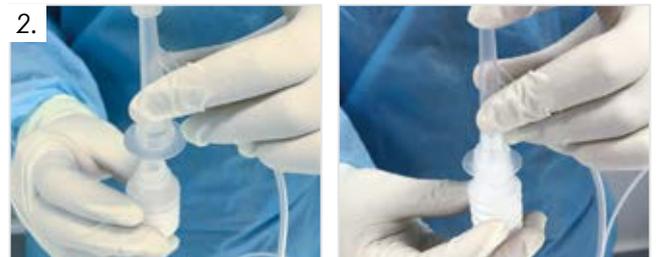
EndoClot™ AHP is particularly suitable for prophylaxis. After ESD, it was sprayed onto the wound. Four days after the operation, a gastroscopy was performed for diagnosis. At this point, the gel matrix still adhered to the lesion and protected it reliably. EndoClot™ Adhesive should always be used after the intervention.

Easy preparation and handling.

Before performing the procedure, please ensure that the air compressor for dispensing the AHP particles is switched on and ready for operation.



1. Connect the application system to the air compressor. Make sure that the air compressor is set to „H“.



2. Attach the AHP particle container firmly to the end of the mixing chamber and keep it upright.



3. Insert the catheter through the working channel of the endoscope and position the catheter in the direction of the bleeding. Avoid direct contact of the catheter tip with liquids and/or mucosa.



4. Position the catheter in front of the bleeding site and tilt the particle container for application at a 45° angle. Tap gently on the container to apply the particles to the bleeding by means of the air flow.



5. When hemostasis is achieved, turn off the air compressor and remove the catheter from the endoscope.



REF	AHP® Particles	Catheter length mm	Catheter Ø mm	Packaging unit
EndoClot™ Set (Catheter + Particles)				
ECA2303	3g	2300	2.3	1 Set/PU
EndoClot™ Catheter				
ECA230	-	2300	2.3	5 pc./PU
EndoClot™ Compressor				
EPAC-1	-	-	-	1 pc./PU
EndoClot™ Compressor connecting tube				
EPAC-1T	-	1550	-	10 pc./PU





Injection needle IN.

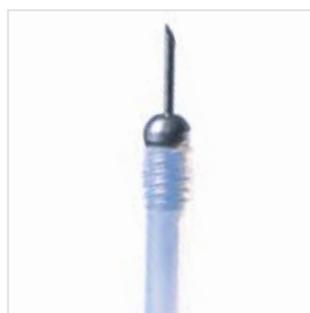
Reliable and safe to the tip.

The disposable MICRO-TECH injection needles facilitate clinical practice due to its ergonomic handle and especially sharp needle. The anti-skid design guarantees convenient control with just one hand.

For even more precise punctures the needle can be locked in several stages. When the needle is released, it snaps back into the catheter to avoid damage to the working channel.

Specific characteristics:

- ergonomic anti-slip handle
- adjustable pressure pad
- automatic needle-feed
- atraumatic distal metal head
- needle with extremely sharp, precision cut
- different needle diameters
- LL needle connector



Metal head with precise needle



Compact ergonomical design





REF	Ø mm	Length mm	Ø Needle mm	Needle stroke mm
Injection-needle IN				
IN12-195232302	2.3	2300	19 G = 0.9 mm	5
IN12-225232302	2.3	2300	22 G = 0.7 mm	5
IN12-255232302	2.3	2300	25 G = 0.5 mm	5

Packaging unit: 10 pieces

Injection-needle Safety Needle SN.

Precision with a unique safety concept.

With the injection needles from bauer medical, punctions become safer and more precise than ever. On one hand, it is the newly developed handle with a particularly ergonomic shape which ensures more tactile feel and an audible locking. On the other hand, it is the special bevel-style grinding of the needle, allowing for highly precise punctions, even under difficult

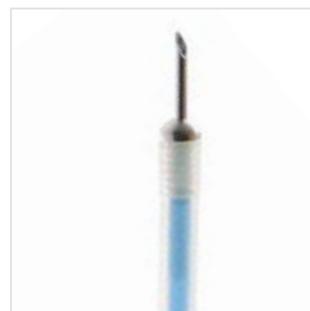
conditions. Matching the specifications of the UVV for enhanced safety, this injection needle provides even more protection: Upon completion of the application the proximal handle can be kinked at a defined breaking point. The forced retention of the needle in the tip of the catheter helps to avoid injuries.

REF	Needle stroke mm	Ø Needle mm	Ø Tube mm	Length mm
Injection-needle Safety Needle SN				
SN1-I10-505-18-120	5	0.5	1.8	1200
SN1-I10-505-18-180	5	0.5	1.8	1800
SN1-I10-507-23-230	5	0.7	2.3	2300
SN1-I10-509-23-230	5	0.9	2.3	2300

Packaging unit: 10 pieces, relay prices on request

Specific characteristics:

- handle with tactile ergonomics
- needle with special bevel-style grinding
- distal protector head for needle tip
- CLICK noise when inserting and retracting the needle
- unique safety concept for non-injurious disposal
- needle diameter of 0.5 / 0.7 / 0.9 mm



Catchable needle with metal protector head



Ergonomical handle with defined breaking point





Padlock-Clip.

360° solution for haemostasis and compression.

With the Padlock Clip, MICRO-TECH offers a highly effective haemostasis and tissue compression solution for the GI tract. The clip, made of flexible, biocompatible nitinol, expands to resume its original form immediately upon release and creates a large-area 360° enclosure of the tissue. Its circumferential

design further accelerates the healing process. The system is ready to use within one minute. It is mounted and fixed on the distal tip of the endoscope. The release mechanism runs parallel to the endoscope. Therefore the working channel remains free for additional endoscopic instruments.

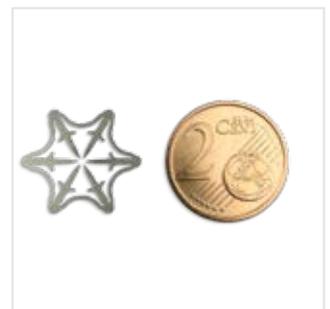
In selected markets only! Please check with your MICRO-TECH dealer for availability.

Specific characteristics:

- uniform 360° tissue closure
- for haemostasis and tissue compression
- simple and rapid assembly
- intuitive operation
- very high x-ray visibility
- can be used with all conventional endoscopes



System with preloaded clip and guide wire



Large-area tissue enclosure, approx. 1x1 cm





Colon



Serial clipping for long lesions



Oesophagus



Stomach



Colon



Compressed tissue therefore self-closing

REF	Clip Ø mm	Length mm	Endoscope distal end Ø mm
Padlock Clip			
C 9100001	11	1830	9.5-11
C 913131 (ProSelect)	11	1830	11.5-14
Packaging unit: 1 piece			

Attention:

The Padlock system cannot be used with a tissue grasping device without the approval of the Ovesco Endoscopy AG.





Hot biopsy forceps.

Take biopsates and stop bleeding.

MICRO-TECH unites several therapeutic working steps with its practical 2-in-1 solution. On one hand, the hot biopsy forceps serve as a conventional hot forceps, removing small colonic polyps precisely and safely in active mode and taking diagnostically conclusive tissue samples in non-active mode. On the other hand,

they serve as an urgent measure for stopping bleeding, since the smallest lesions can be closed again at any time via coagulation current. The hot biopsy forceps are unparalleled by other forceps in their suitability for treatment of patients with an increased risk of bleeding.

Specific characteristics:

- reliability
- safety
- very comfortable to use
- high quality riveted scissors joints
- puncture-proof PTFE insulation
- 3-ring handle with Olympus HF-connection
- excellent cutting characteristics



HF-connection

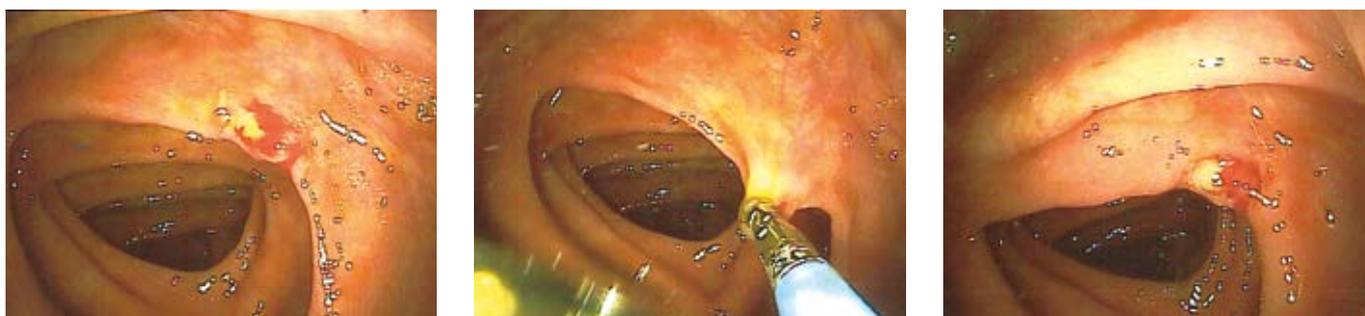


Scissors joint

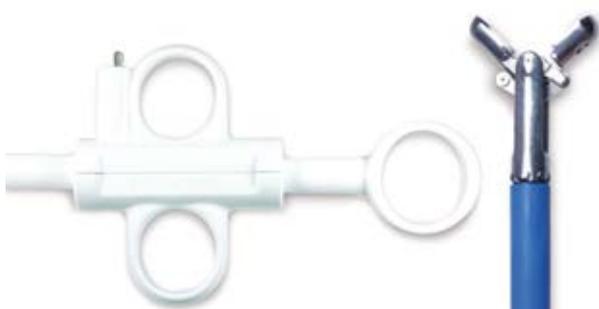


Successful in practical use.

The hot biopsy forceps from MICRO-TECH are particularly suitable for use in patients with an increased risk of bleeding. If bleeding occurs during tissue sampling or polyp removal, this can be treated immediately and stopped via coagulation current.



Hot biopsy forceps in endoscopic use



Target-oriented use of power.

The 3-ring handle is equipped with an Olympus HF-connection for safe and controlled power supply. The PTFE insulation of the metal coil is impact-resistant and prevents current conductive contact with the tissue.

REF	Ø mm	Length mm	Spike	Insulated	Jaw
Hot-biopsy forceps with coating					
HBF05-11018120	1.8	1200	no	yes	standard
HBF05-11018180	1.8	1800	no	yes	standard
HBF05-11023180	2.3	1800	no	yes	standard
HBF05-11023230	2.3	2300	no	yes	standard

Packaging unit: 10 pieces

Please find our range of standard forceps in the dedicated catalog





Multiband ligation-system.

Easy. Reliable. Latex free.

The MICRO-TECH multiband ligating system is suitable for the effective treatment of bleedings in esophageal varices and anorectal hemorrhoids. The complete system is preloaded for 4 or 6 ligations and can be easily

installed. The silicone cap provides a clear view and a reliable suction of tissue. It is the only system also available in a latex-free variant. Thus the risk of an allergic reaction is significantly reduced in sensitive patients.

Specific characteristics:

- easy assembly and handling
- suitable for endoscopes of 9.4 to 14.0 mm in diameter
- for working channels as of 2.8 mm diameter
- with flush attachment
- preloaded for 4/6 ligations
- ligation-design with or without latex



Silicone cap with release thread



REF	Soft Cap Ø mm	Endoscope Ø mm	X-Shooter	Threadlength mm	Threadcolor
Latex					
MBLS-6F	8.8	9.4 – 13.0	6	1450	blue/ transparent
MBLS-4F	8.8	9.4 – 13.0	4	1450	blue/ transparentt
MBLS-XL-6F	9.8	11.0 – 14.0	6	1900	blue/ transparent
MBLS-XL-4F	9.8	11.0 – 14.0	4	1900	blue/ transparent
Latex free					
MBLS-6F-NL	8.8	9.4 – 13.0	6	1450	yellow/black
MBLS-4F-NL	8.8	9.4 – 13.0	4	1450	yellow/black
MBLS-XL-6F-NL	9.8	11.0 – 14.0	6	1900	yellow/black
MBLS-XL-4F-NL	9.8	11.0 – 14.0	4	1900	yellow/black

Packaging unit: 1 piece, relay prices on request





Biopsy and cytology

Forceps and brushes.





Disposable biopsy forceps.

No compromises: Quality meets comfort.

The wide choice of disposable biopsy forceps ensures that you are perfectly equipped for every application. MICRO-TECH offers forceps with diameters of 1.8 mm, 2.3 mm and 3.0 mm in addition to lengths of 120, 180, 230 and 260 cm. Regardless of whether they are with or without a spike, coated or uncoated and

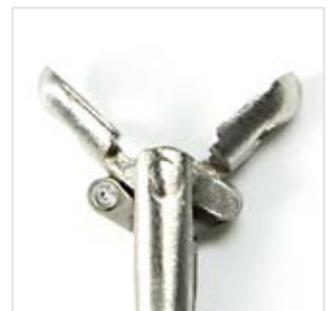
with standard or toothed spoons – all models are characterised by their high reliability. The excellent cutting edge of the biopsy forceps allows you to take diagnostically conclusive tissue samples in a safe, easy manner. In addition the comfort-forceps with softgrip our range also includes cost-efficient eco-forceps.

Specific characteristics:

- reliability
- very comfortable to use
- diagnostically conclusive biopsies
- wide product variety
- high quality riveted scissors joints
- working channel-friendly design



Toothed spoon



Scissors joint



Successful in practical use.

The biopsy forceps perform in practice thanks to their ease of insertion and excellent mobility. The area to be examined can therefore be reached easily and rapidly. During tissue sampling, the forceps are outstanding for their accurate control and precise cut.

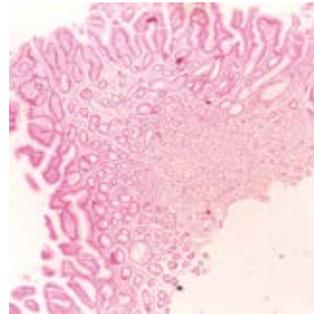
Owing to the particularly sharp cutting edge, the forceps allow precise removal of biopsates. The expenditure of effort in this case is minimal. The biopsates taken are large and therefore provide sufficient tissue for diagnostically conclusive findings.



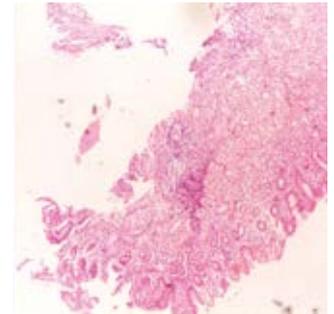
Biopsy removal



After biopsy removal



Biopsate removed with a toothed cutting edge



Biopsate removed with a smooth cutting edge



Grip in a comfort- or eco-version.

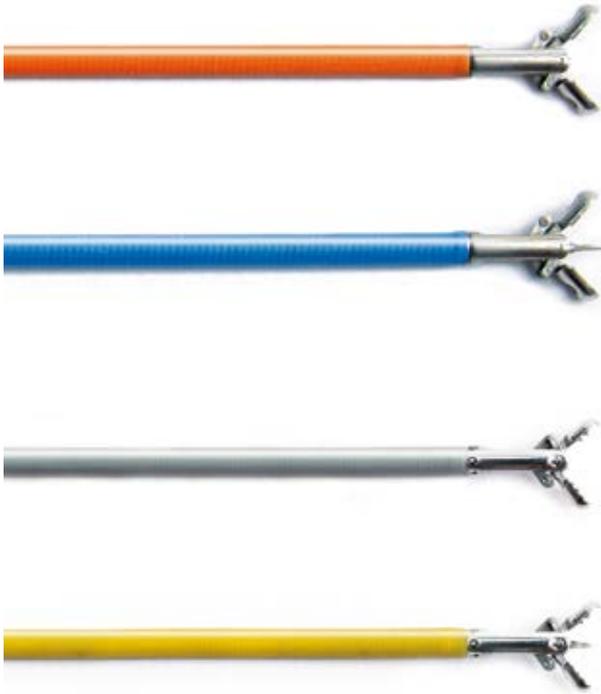
With the grip of the forceps, the jaw section is perfectly under control. It offers you precise guidance even with sharply angled endoscopes. The soft, non-slip rubber coating handle rings makes work safe and pleasant. Two different handles are available:

The comfort-version with the soft antiskid rubber makes the handling safe and convenient. Or the eco-version with plastic handle as a cost-efficient alternative with a very good price-performance ratio.

Jaw sections for every intervention.

Whether for biopsies or for removal of small polyps – the disposable biopsy forceps are perfectly equipped for any task with different jaw sections: with a smooth or a toothed cutting edge and with or without a spike. The jaw section can be precisely controlled and opened extremely widely.





High quality coating.

A choice of an uncoated and coated metal coil is available. Additional markings are provided on the coating to facilitate orientation during use.

Rapid identification.

The forceps components have different colour codes so you can identify them more rapidly and distinguish their field of application at a glance:

Handle:

- white – toothed cutting edge
- grey – smooth cutting edge

Jaw section protective cap:

- red – with spike
- yellow – without spike

Coating:

- grey – bronchial forceps
Ø 1.8 mm, 120 cm long
- yellow – paediatric forceps
Ø 1.8 mm, 180 cm long
- orange – gastric forceps
Ø 2.3 mm, 180 cm long
- blue – colon forceps
Ø 2.3 mm, 230 cm long
- orange or blue – macro forceps
Ø 3.0 mm, 180 und 230 cm long

Also available as hot-biopsy-forceps

REF	Ø mm	Length mm	Spike	Covering	Jaw
Bronchial forceps					
NBF01-11018120	1.8	1200	no	without	standard
NBF11-11018120	1.8	1200	no	without	serrated
NBF01-11118120	1.8	1200	yes	without	standard
NBF02-11018120	1.8	1200	no	grey	standard
NBF12-11018120	1.8	1200	no	grey	serrated
NBF02-11118120	1.8	1200	yes	grey	standard
NBF01-11023120	2.3	1200	no	without	standard
NBF01-11123120	2.3	1200	yes	without	standard
NBF03-11023120	2.3	1200	no	grey	standard
NBF03-11123120	2.3	1200	yes	grey	standard



REF	Ø mm	Length mm	Spike	Covering	Jaw
Gastric forceps					
NBF01-11023180	2.3	1800	no	without	standard
NBF11-11023180	2.3	1800	no	without	serrated
NBF01-11123180	2.3	1800	yes	without	standard
NBF03-11023180	2.3	1800	no	orange	standard
NBF13-11023180	2.3	1800	no	orange	serrated
NBF03-11123180	2.3	1800	yes	orange	standard
NBF13-11123180	2.3	1800	yes	orange	serrated
Paediatric forceps					
NBF01-11018180	1.8	1800	no	without	standard
NBF11-11018180	1.8	1800	no	without	serrated
NBF01-11118180	1.8	1800	yes	without	standard
NBF02-11018180	1.8	1800	no	yellow	standard
NBF12-11018180	1.8	1800	no	yellow	serrated
NBF02-11118180	1.8	1800	yes	yellow	standard
Colon forceps					
NBF01-11023230	2.3	2300	no	without	standard
NBF11-11023230	2.3	2300	no	without	serrated
NBF01-11123230	2.3	2300	yes	without	standard
NBF11-11123230	2.3	2300	yes	without	serrated
NBF03-11023230	2.3	2300	no	blue	standard
NBF13-11023230	2.3	2300	no	blue	serrated
NBF03-11123230	2.3	2300	yes	blue	standard
NBF13-11123230	2.3	2300	yes	blue	serrated
Makro forceps					
NBF01-01030180	3.0	1800	no	without	standard
NBF01-01030230	3.0	2300	no	without	standard
NBF01-01130180	3.0	1800	yes	without	standard
NBF01-01130230	3.0	2300	yes	without	standard
NBF03-01030180	3.0	1800	no	orange	standard
NBF03-01030230	3.0	2300	no	blue	standard
NBF03-01130180	3.0	1800	yes	orange	standard
NBF03-01130230	3.0	2300	yes	blue	standard
REF	Ø mm	Length mm	Spike	Covering	Jaw
Eco forceps					
EBF51-11023180	2.3	1800	no	without	standard
EBF51-11023230	2.3	2300	no	without	standard
EBF51-11123180	2.3	1800	yes	without	standard
EBF51-11123230	2.3	2300	yes	without	standard
EBF53-11023180	2.3	1800	no	blue	standard
EBF53-11023230	2.3	2300	no	blue	standard
EBF53-11123180	2.3	1800	yes	blue	standard
EBF53-11123230	2.3	2300	yes	blue	standard

Packaging unit: 10 pieces





Cytology brushes.

The solution for easy and safe cytologic smears.

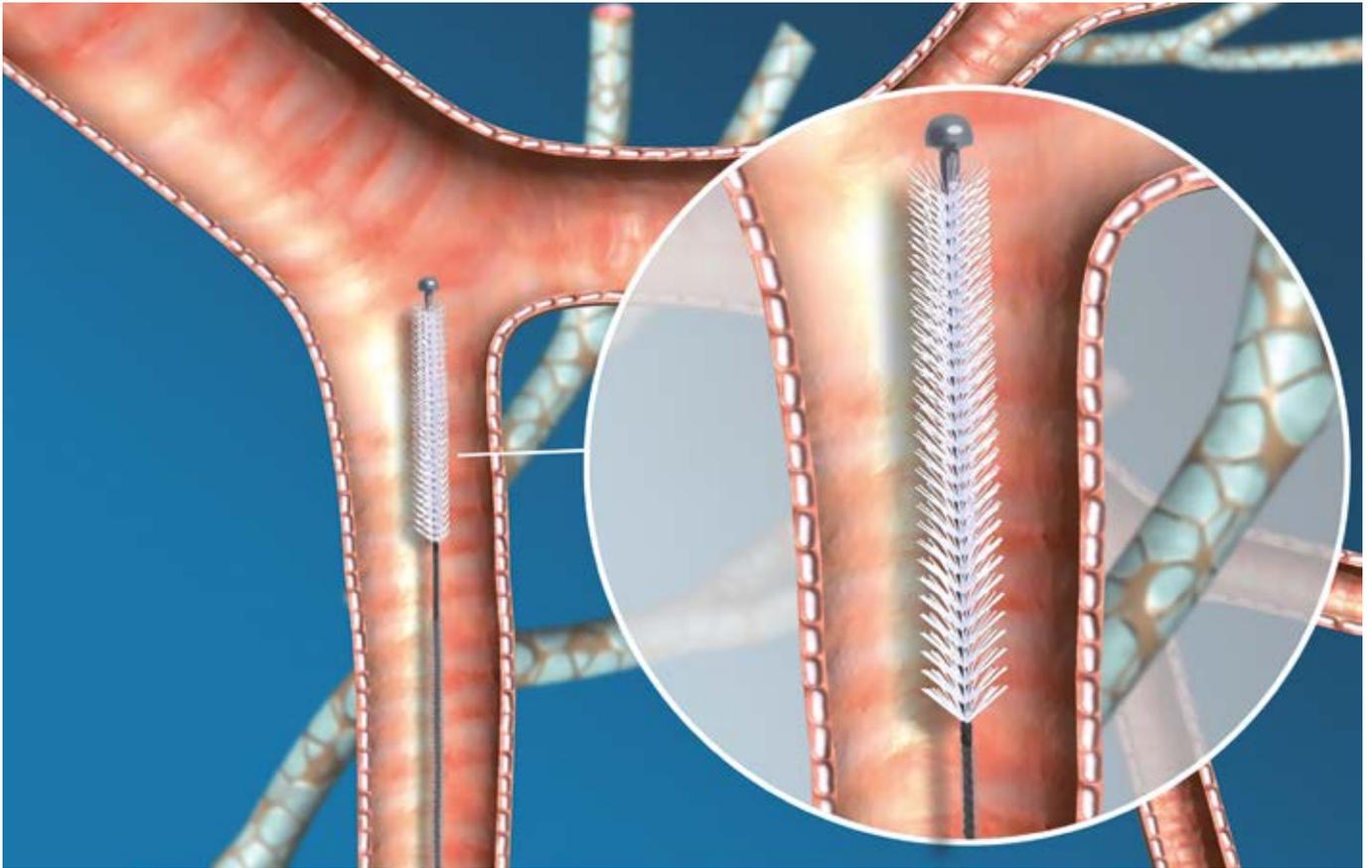
One established method to remove tissue specimens consists in taking cytologic smears with cytology brushes: MICRO-TECH makes tissue sampling efficient and safe, owing to a series of cytology brushes which are especially adapted to clinical requirements. The MICRO-TECH cytology brush can be very easily pushed forward to the desired site through the endo-

scope and the cytological smear can be easily extracted. The thin bristles enable a tissue-sparing cytologic smear. The plastic tube and the distal ball for closure protect the tissue sample when the device is retracted. A potential contamination of the sample or even a loss of sample is thus excluded.

Specific characteristics:

- thin brushes for an optimal collection of cells
- includes plastic tube and metal head for closure
- for endoscopes with a working channel diameter above 2.0 mm
- sterile single packaging





Safe and controlled introduction.

By using MICRO-TECH cytology brushes you can even access lesions hard to reach, easily and safely. The ergonomically shaped 3-ring handle also gives the user a secure and comfortable grip. Every movement is conveyed to the brush head, directly and with precision.



Ergonomically handle

Comprehensive range of products.

MICRO-TECH offers a great variety of cytology brush models which are suited for many application fields and comply with clinical specifications.

REF	Brush Ø mm	Length mm	Catheter Ø mm
Single-use cytology brush			
CYB-24S-12C	2.4	1200	1.8
CYB-30S-12C	3.0	1200	1.8
CYB-30S-24C	3.0	2400	2.3
CYB-40S-12C	4.0	1200	1.8
CYB-40S-24C	4.0	2400	2.3

Packaging unit: 20 pieces





Foreign body and stent removal

Forceps and baskets.





Foreign body forceps.

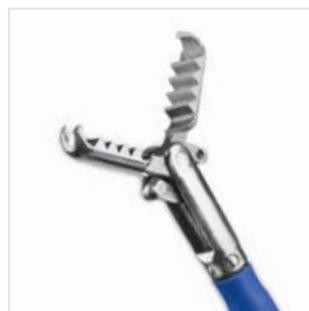
Quality crafted for high precision control.

Due to the ergonomic 3-ring handle the one-time foreign body forceps can be used with ease and comfort. Each movement is passed exactly to the forceps – even in angled body regions. The calipers themselves are made of high quality material and are

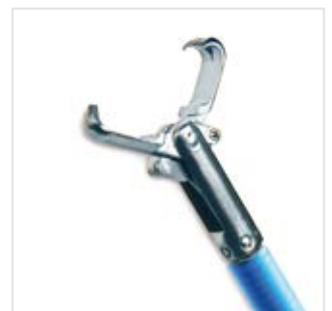
perfectly manufactured. These qualities allow you to grab firmly, guaranteeing safe foreign body retrievals. The range includes forceps for gastroenterology, pneumology, paediatrics and urology.

Specific characteristics:

- high-quality processing
- covering with markings
- ergonomic 3-ring handle
- easy and safe operation
- different areas of application
- 3 types: Alligator, 2-1 teeth and Griffin
- sterile and individually wrapped
- Type Griffin also for stent-extraction and -repositioning



Type Griffin: long alligator jaw with 2:1 teeth



Type: 2-1 teeth

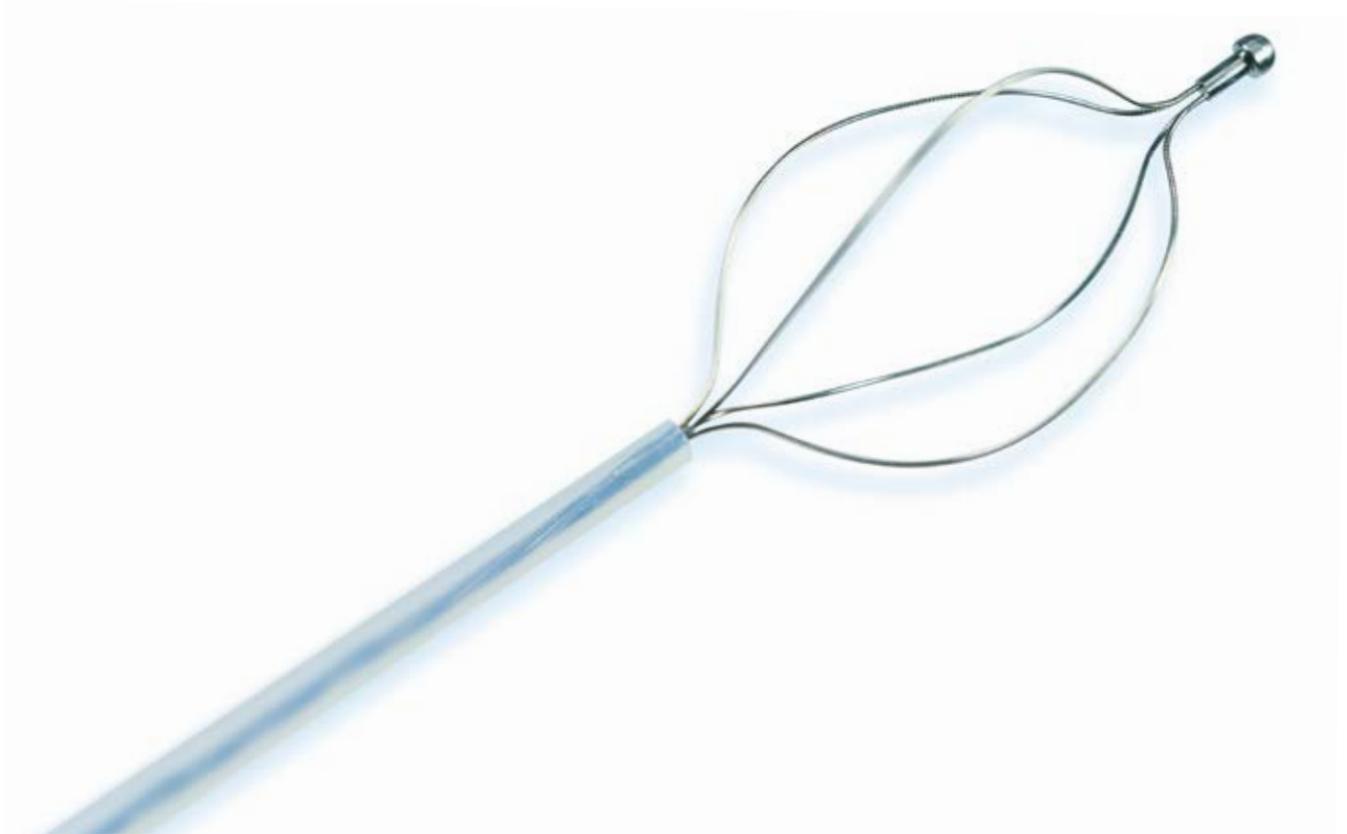


REF	Type	Length mm	Ø mm
Disposable Foreign Body Forceps - Gastroenterology			
NGF03-11023230	2-1 teeth	2300	2.3
NGF13-11023230	Alligator	2300	2.3
NGF33-11023230	Griffin	2300	2.3
Disposable Foreign Body Forceps - Pneumology, Paediatrics, Urology			
NGF32-11018180	Griffin	180	1.8
NGF32-11018120	Griffin	120	1.8

Packaging unit: 10 pieces

Type Griffin is ideal and our recommendation for stent-extraction and -repositioning.





Basket extractor.

Remove foreign objects safely and specifically.

The extraction baskets from bauer medical are not only suitable for stone extraction in the bile duct, but also for use in the upper and lower intestinal tract for the safe recovery and removal of foreign bodies such

as marbles or batteries. The rotation of the Vario basket ensures safe and reliable recovery of the foreign body.

Specific characteristics:

- fixed pre-determined breaking point
- smooth wire with optimized gliding quality
- ergonomic grip for improved tactile feeling
- stone extractor basket with atraumatic tip
- vario basket



Atraumatic tip gentle to working channel and mucosa



Highly mobile grip for precision insertion and extraction



REF	Form	Features	Ø basket mm
Disposable baskets, pull rope-length 200 cm			
BK1-B10-25-23-200	vario	multifilament, 150°-rotation, protection head	15 / 25
BK1-B10-30-23-200	vario	multifilament, 150°-rotation, protection head	20 / 30
BK1-B20-20-23-200	hexagonal	multifilament, 4 rope, protection head	20
BK1-B20-25-23-200	hexagonal	multifilament, 4 rope, protection head	25
BK1-B20-30-23-200	hexagonal	multifilament, 4 rope, protection head	30
BK1-B20-35-23-200	hexagonal	multifilament, 4 rope, protection head	35
BK1-B21-35-23-200	hexagonal	4 rope, half coiled	35
BK1-B22-20-23-200	hexagonal	4 rope, full coiled	20
BK1-B22-25-23-200	hexagonal	4 rope, full coiled	25
BK1-B22-30-23-200	hexagonal	4 rope, full coiled	30
BK1-B22-35-23-200	hexagonal	4 rope, full coiled	35
Disposable guide wire baskets, pull rope-length 200 cm			
BK1-B90-25-27-200	combi-hexagonal	multifilament, retractable tip	15 / 25
Disposable lithotripsy baskets, pull rope-length 400 cm			
LT1-B10-25-23-400	vario	multifilament, 150°-rotation, retractable tip	15 / 25
LT1-B10-30-23-400	vario	multifilament, 150°-rotation, retractable tip	20 / 30
LT1-B20-20-23-400	hexagonal	multifilament, retractable tip	20
LT1-B20-25-23-400	hexagonal	multifilament, retractable tip	25
LT1-B20-30-23-400	hexagonal	multifilament, retractable tip	30
LT1-B20-35-23-400	hexagonal	multifilament, retractable tip	35

Packaging unit: 5 pieces





Reprocessing

Brushes and combination brushes.





Combination cleaning brush solutions.

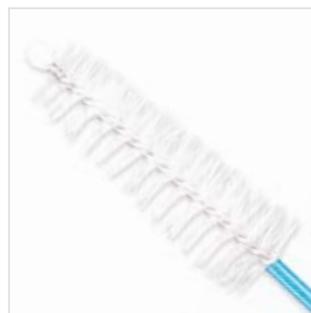
The 2 in 1 solution for the daily practice.

The cleaning of both the endoscope channels and its air-water valve requires a different kind of brush. MICRO-TECH offers smart devices for this purpose that makes the daily practice easier and more efficient.

The dual cleaning brush and valve brush combination set made by MICRO-TECH is such a solution for the reprocessing of the endoscope.

Specific characteristics:

- double cleaning brush for air-water valve/control head
- intensive and efficient cleaning
- protective beads on the brush heads
- brushes made of resistant nylon
- individually hygienically packed sets available



Tapered



Protective bead



One brush fits all valves.

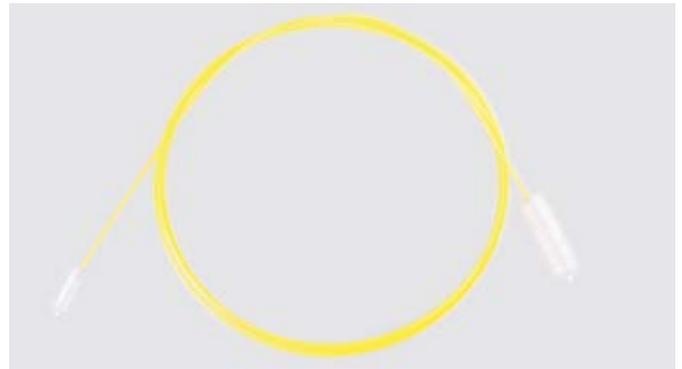
MICRO-TECH offers the all inclusive solution for the thorough brushing of the air-water valve vents and ports. The double header brush combines a 40 mm long and 11 mm thick port brush with a 20 mm long and 5 mm thin vent brush. Both brushes are flexible and have protective distal beads to help prevent damage to the endoscope.



Double headed cleaning brush for air-water valve

Combination dual function brush.

A cleaning brush with a conical brush head for the endoscope channels and a large calibre and long brush head for the airwater valve- ports allow channel and valve-port brushing with a single cleaning brush. This saves time and reduces costs.



Combination cleaning brush

Smart and efficient: Cleaning brush sets.

The MICRO-TECH cleaning brush set includes all necessary brushes for a thorough and easy cleaning of the endoscope. It contains one cleaning brush for the endoscope channels and one double header cleaning brush for the valve vents and ports. The sets are alternatively available with one single or one double headed cleaning endoscope channel brush. Each set is delivered individually hygienically packed.

REF	Catheter Ø mm	Total length mm	Brushes Ø mm	Brush length mm
Cleaning brush for valve vent				
CB13-50120-01	1.3	160	5/12	20/40
Combination cleaning brush				
CB18-T50110-23	1.8	2300	5-7 tapered/ 11	20/40
Cleaning brush set				
CB18-T0050-23-B				
CB18-T0050-23	1.8	2300	5-7 tapered	20
CB13-50120-01	1.3	-	5/12	20/40
CB18-T5050-23-B				
CB18-T5050-23	1.8	2300	5-7 tapered	20/20
CB13-50120-01	1.3	-	5/12	20/40

Packaging unit: 100 pieces





Disposable cleaning brushes.

The standard in dependable hygiene.

The disposable cleaning brushes from MICRO-TECH ensure a perfectly cleaned endoscope, thus reducing the risk of cross-contamination to a minimum. The brushes also protect your endoscope. Spherical beads on the brush ends prevent the endoscope's working channel from being damaged during clean-

ing. If you wish to make your work even safer, more rapid and more efficient, the disposable double cleaning brushes with 2 heads are recommended. Two cleaning processes can therefore be performed simultaneously in a single working step.

Specific characteristics:

- 2 brush heads for time-saving cleaning
- protective beads on the brush heads
- brushes made of resistant nylon
- individually hygienically packed



Handle

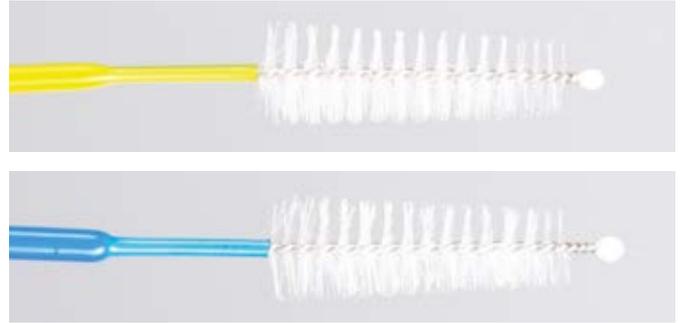


Nylon brushes



Conical brush heads.

The product range has also been supplemented with disposable cleaning brushes with tapered brush heads. According to preference, brushes with constant and decreasing brush diameters are available. Conical brush heads are indicated by a T in the product number.



Your choice: 1 or 2 brush heads.

An ergonomic fingering on the single head brush supports easy removal of the cleaning brush from the endoscope channel. Alternatively the use of a double headed cleaning brush can be recommended - a catheter with a brush at each end that is pulled through the channel thus allowing greater cleaning efficiency with its double brush action.



Precisely fitting diameter.

Whether a bronchoscope or a therapeutic endoscope with a large working channel is involved – you can obtain ideal cleaning brushes for all endoscopes with diameters ranging from 3 mm to 11 mm.



REF	Catheter Ø mm	Total length mm	Brushes Ø mm	Brush length mm
Cleaning brushes with one head				
CB18-0050-18	1.8	1800	5	20
CB18-0050-23	1.8	2300	5	20
CB18-T0050-23	1.8	2300	5-7 tapered	20
Cleaning brushes with two heads				
CB02-021018B	1.0	1800	2/2	20/20
CB18-3030-18	1.8	1800	3/3	20/20
CB18-5050-23	1.8	2300	5/5	20/20
CB18-T5050-23	1.8	2300	5-7/ 5-7 tapered	20/20
CB23-5050-18	2.3	1800	5/5	20/20
CB23-5050-23	2.3	2300	5/5	20/20

Packaging unit: 100 pieces (at CB02-021018B: 50 pieces)





Miscellaneous

Accessories and technical equipment.



Accessories.

Clever equipment for smart endoscopy.

MICRO-TECH has a close cooperation with the company Medgic – a member of the MICRO-TECH Group. The brand Medgic represents useful instruments of a high quality making daily routine endoscopy convenient and more safe. The product range includes de-

vices that offer work protection to doctors and nurses as well as textiles which increase the patient comfort. All Medgic solutions are naturally certified according to EN ISO 13485 and fulfill the stringent requirements of directive 93/42 EEC concerning medical devices.



Disposable Mouthguards

Different models are available: standard, pediatric and mouthguards with a special a traumatic design



Disposable Coloshorts

Soft and absorbent dark blue material, rear opening that can be closed by Velcro strips, rubber waistband for easy fit



Disposable sterile instrument cloth

Light blue water resistant and absorbent cloth with either 4 transparent instrument pockets – rear adhesive tape for fixation



Disposable biopsy valve with flush connection

Suitable for Olympus and Fujifilm endoscopes



Disposable channel valves

The channel valves fit on Olympus and Pentax endoscopes



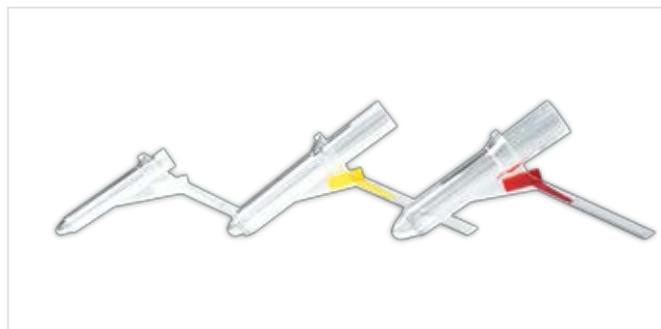
Polyp trap

The 4-chamber system enables the separate capture of up to 4 polyps or biopsy material



Single-use proctoscope.

For a reliable diagnosis of the rectum MICRO-TECH disposes different proctoscopes in a disposable variant. The proctoscopes are made of high quality clear acrylic, which ensures a clear view of the intestinal wall and avoids cold sensations for the patient during insertion. The smooth surface facilitates the examination and prevents potential injuries.



REF	Description	Length mm	Ø outside mm	Ø inside mm
Proctoscope				
RA1480	Size S for paediatrics, color: white	80	14	12
RA2295	Size M, color: yellow	95	22	20
RA2695	Size L, color: red	95	26	24
RA0001	Adapter for cold-light-source			

Packaging unit: Proctoscopes: 100 pieces / Cold-light-adapter: 1 piece

REF	Description	Measurements
Mouthguards		
AC01-101.M	Disposable mouthguard, yellow, latex free rubber strap	Medium (M)
AC01-102.M	Disposable mouthguard, yellow, NO strap	Medium (M)
AC01-103.A	Disposable mouthguard, atraumatic design, blue, latex free textile strap	Atraumatic (A)
AC01-103.M	Disposable mouthguard, blue, textile strap	Medium (M)
AC01-103.P	Disposable pediatric mouthguard, latex free textile strap	Pediatric (P)
Coloshorts		
TX01-101.L	Dark blue, Valcro strips at back, rubber waistband, size L	50/132/29 cm (waistband*/bottom/leg) Leg length 60 cm
TX01-101.XL	Dark blue, Valcro strips at back, rubber waistband, size XL	56/144/35 cm (waistband*/bottom/leg) Leg length 64 cm
Instrument cloth		
TX03-101.M4	Light blue, 4 pockets (l x w: 20 x 25 cm each)	90 x 70 cm
Biopsy valves		
AC03-101.O	Blue, for Olympus and Fujifilm endoscopes (G5 and higher)	
AC03-101.P	Red, for Pentax endoscopes	
AS2450000	Disposable biopsy valve with flush connection, suitable for Olympus and Fujifilm endoscopes	
Polyp trap		
BBP-50	Polyp trap with 4-chamber	

*cm of relaxed waistband, stretchable up to bottom size





Jet Cleaner Type III

Safe and variable rinsing.

The Jet Cleaner Type III from Wieser Medizintechnik und Geräte GmbH allows you apply rinsing-fluid safely through the working channel of the endoscope. With this device you can rinse intestinal bleedings and clots away or establish an optimal view in a polluted intestinal tract. The rinsing fluid can be applied in two ways: Via the standard working channel or through

the existing endoscope jet channel. The Jet Cleaner Type III can be connected to all standard endoscopes with a working channel. For the endoscope brands Olympus, Fujinon, Pentax and Storz, when using the instrumented-/flush adapter (available as an accessory), simultaneous rinsing and instrumentation is possible with correspondingly large working channels.

Specific characteristics:

- variable flushing 700-1600 ml/min
- for all common endoscope brands
- flushing via working channel or jet channel
- simultaneous rinsing and instrumentation
- complete with foot switch, liquid tank, hose and adapter



Product number	Description	Feature
Jet Cleaner Type III		
000.548003	Jet Cleaner Type III complete	Power cable for, Transformer, pneumatic foot switch, fluid reservoir 2 L, flush hose, instrument rinsing adapter, variable flushing rate 700 – 1600 ml / min
000.540035	Rinsing-Adapter	Olympus / Storz and Fujinon G5-series endoscope, autoclavable
000.540037	Rinsing-Adapter	Pentax, autoclavable
000.540041	Rinsing-Adapter	with screw thread for Olympus / Storz and Fujinon (G5) endoscope, autoclavable
29-1007RV	Disposable flush hose with non-return valve	Length: 250 cm, with double-sided LLM-attachment, incl. non-return valve, 1 VE = 20 pieces / Graduated price on request
29-1007	Disposable flush hose	Length: 250 cm, with double-sided LLM-attachment, 1 VE = 20 pieces / Graduated price on request
28-0165D	Disposable flush hose with bottle lid	Length: 110 cm, with double-sided LLM-attachment, incl. non-return valve
28-0166D	Disposable flush hose with bottle lid	Length: 200 cm, with double-sided LLM-attachment
28-0166RVD	Disposable flush hose with bottle lid	Length: 200 cm, with double-sided LLM-attachment, incl. non-return valve



