



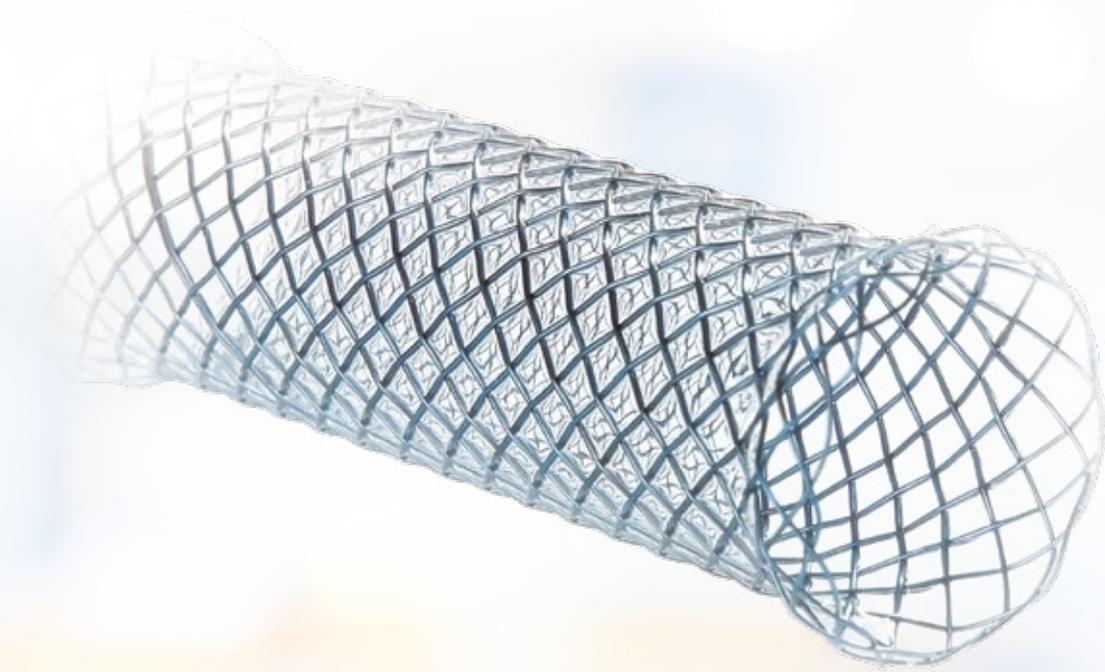
MICRO-TECH™
ENDOSCOPY



AIRWAY STENTS

TRACHEAL AND BRONCHIAL

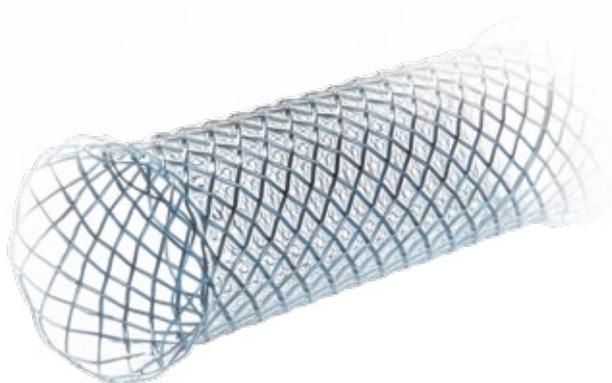
YOUR TRUSTED PARTNER IN ENDOSCOPY

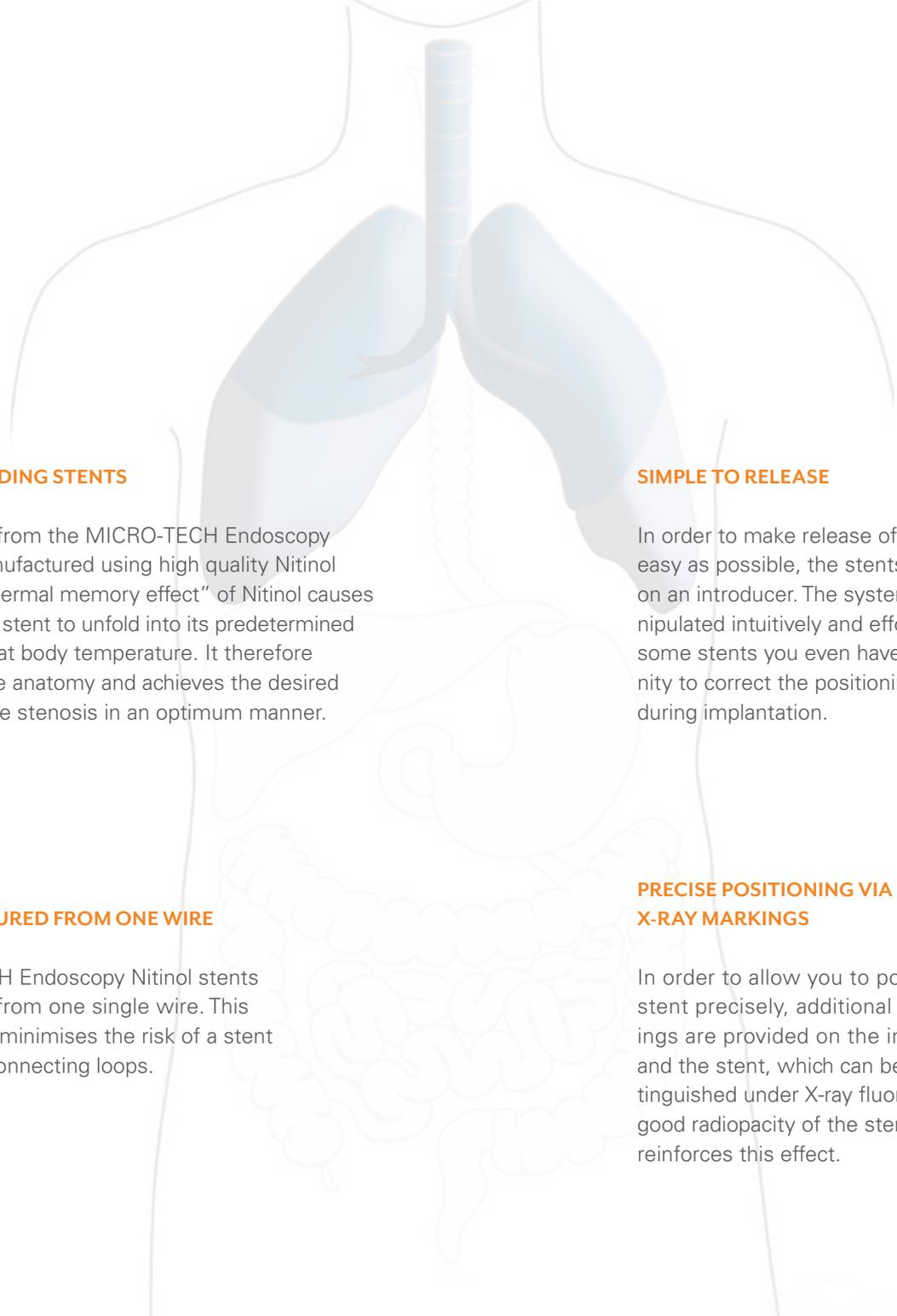


NITINOL STENTS FOR PULMONOLOGY

Reliable bypassing of stenoses in the area of the digestive or respiratory tract places high expectations on a stent. With its extensive range of stents, MICRO-TECH Endoscopy, as one of the leading international manufac-

tures, meets these requirements and offers a suitable solution for many challenges. Rely on the utmost in quality and optimum positional stability.





SELF-EXPANDING STENTS

Every stent from the MICRO-TECH Endoscopy range is manufactured using high quality 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

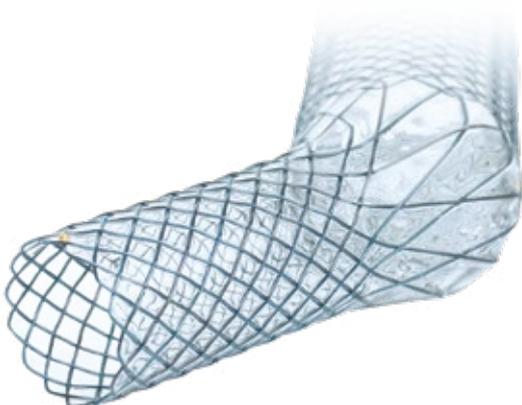
In order to make release of the stent as easy as possible, the stents are preloaded on an introducer. The system can be manipulated intuitively and effortlessly. With some stents you even have the opportunity to correct the positioning of the stent during implantation.

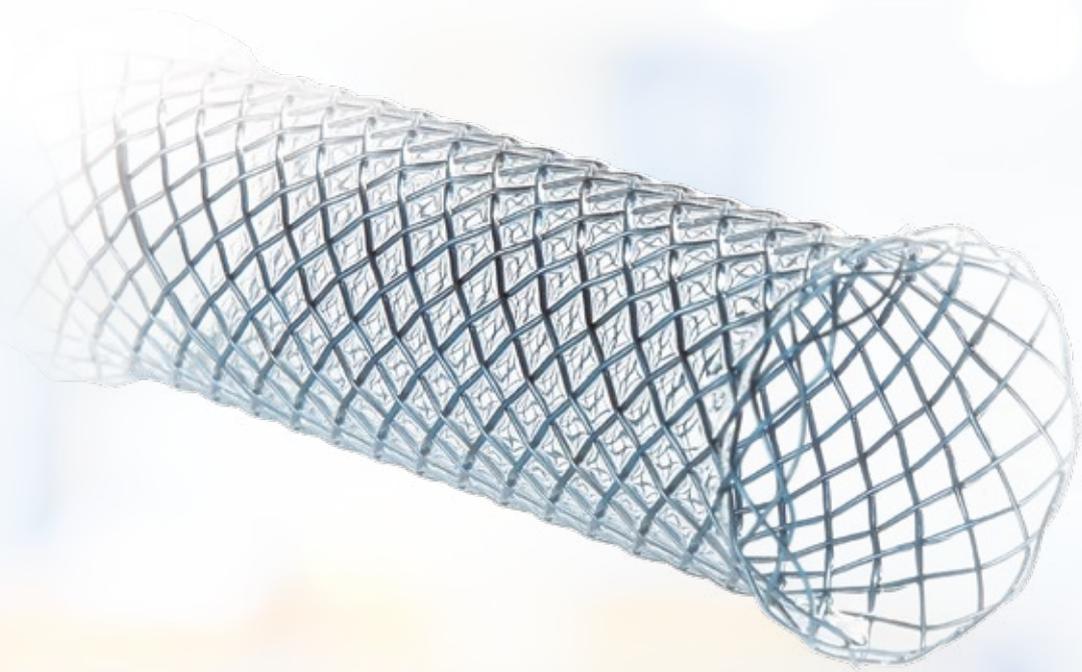
MANUFACTURED FROM ONE WIRE

MICRO-TECH Endoscopy Nitinol stents are braided from one single wire. This significantly minimises the risk of a stent fracture at connecting loops.

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 good radiopacity of the stents further reinforces this effect.





TRACHEAL AND BRONCHIAL STENTS

THE RIGHT SOLUTION FOR EVERY INDICATION

Through its diverse selection of self-expanding stents for the respiratory tracts, MICRO-TECH can provide the right solution for every indication. All in all, six different diameters ranging from 10 to 20 mm in addition to six

different lengths varying from 20 to 80 mm are available. The stent's spherical ends as well as their high radial force ensure a firm hold and minimize the risk of migration.

SPECIFIC CHARACTERISTICS

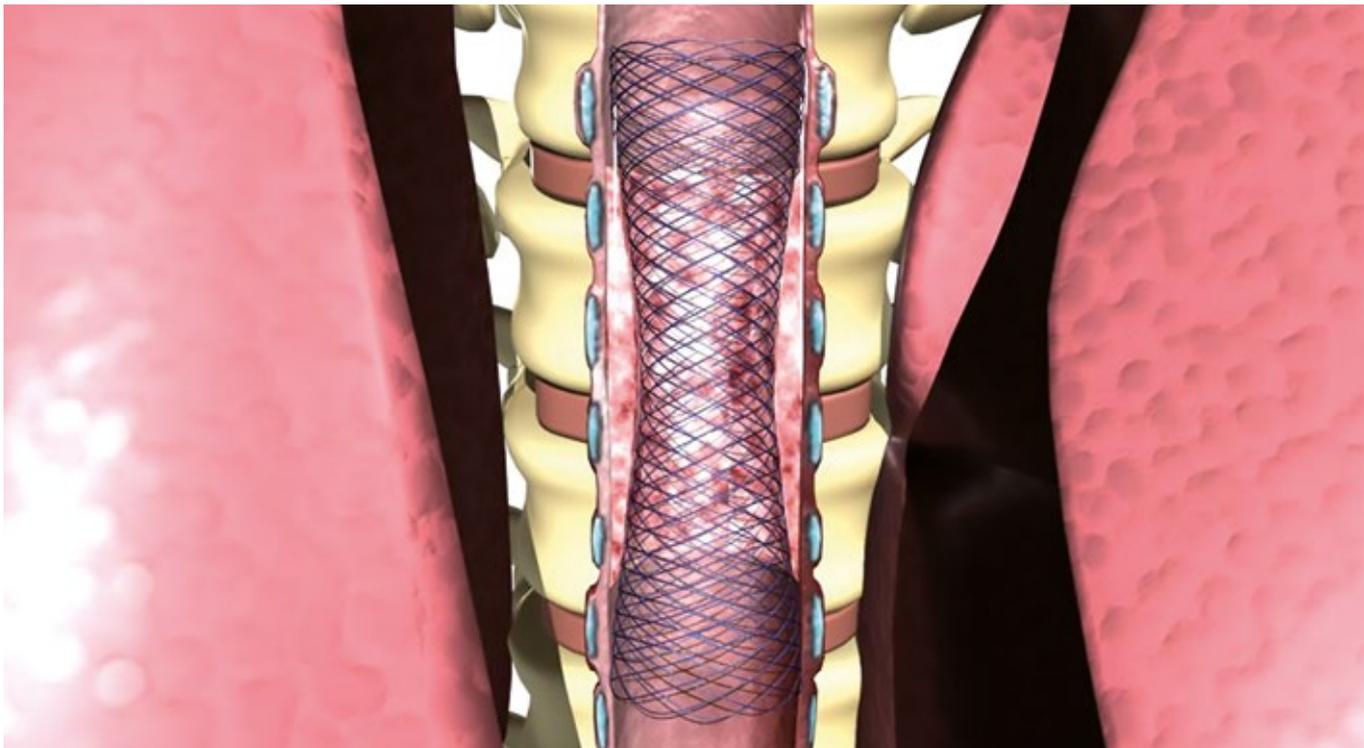
- Self-expanding
- Nitinol mesh with atraumatic ends
- Excellent positional stability
- High radial force
- Resistant and elastic covering
- Fully covered stents available
- High radiopacity
- Guide wire-compatible up to 0.035 inches



Spherical end



Elastic covering

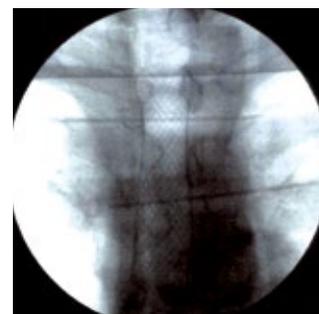


SUCCESSFUL IN PRACTICAL USE

The MICRO-TECH's standard stent ends guarantee utmost reliability when bypassing stenoses and leakages in the respiratory tract. Combined with their high radial force, these 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

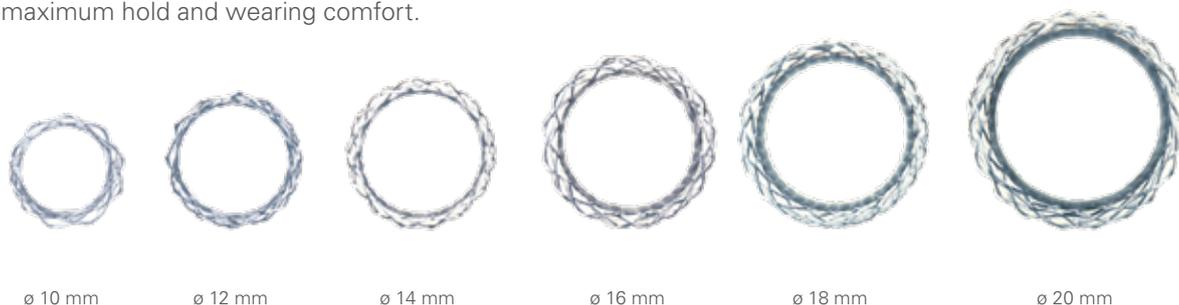


COVERING ACCORDING TO REQUIREMENTS

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

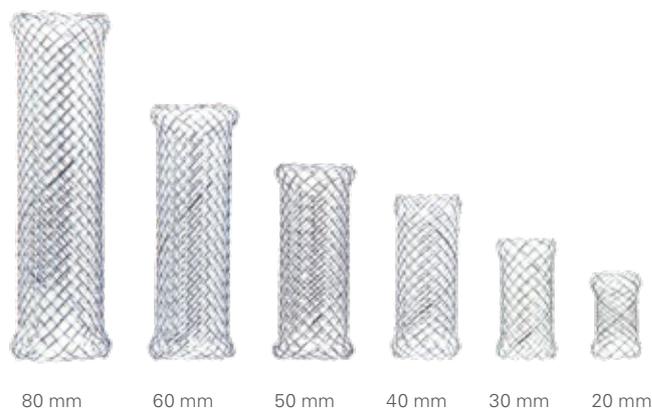
SIX DIFFERENT DIAMETERS

With a total of six 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 varying from 20 to 80 mm, guaranteeing the right solution is always at hand for every intervention.



EASILY MANEUVERABLE INTRODUCER

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

SPECIFICATIONS

| REF | Ø centre mm | Ø end mm | Length mm | Covering mm |
|-------------------------------------|-------------|----------|-----------|-------------|
| STENTS WITH PARTIAL COVERING | | | | |
| ST05-102.10.020 | 10 | 12 | 20 | 10 |
| ST05-102.10.030 | 10 | 12 | 30 | 20 |
| ST05-102.12.020 | 12 | 14 | 20 | 10 |
| ST05-102.12.030 | 12 | 14 | 30 | 20 |
| ST05-102.12.040 | 12 | 14 | 40 | 30 |
| ST05-102.14.020 | 14 | 16 | 20 | 10 |
| ST05-102.14.030 | 14 | 16 | 30 | 20 |
| ST05-102.14.040 | 14 | 16 | 40 | 30 |
| ST05-102.16.040 | 16 | 18 | 40 | 30 |
| ST05-102.16.050 | 16 | 18 | 50 | 40 |
| ST05-102.16.060 | 16 | 18 | 60 | 50 |

| REF | Ø centre mm | Ø end mm | Length mm | Covering mm |
|-----------------|-------------|----------|-----------|-------------|
| ST05-102.16.080 | 16 | 18 | 80 | 70 |
| ST05-102.18.040 | 18 | 20 | 40 | 30 |
| ST05-102.18.050 | 18 | 20 | 50 | 40 |
| ST05-102.18.060 | 18 | 20 | 60 | 50 |
| ST05-102.18.080 | 18 | 20 | 80 | 70 |
| ST05-102.20.040 | 20 | 22 | 40 | 30 |
| ST05-102.20.060 | 20 | 22 | 60 | 50 |
| ST05-102.20.080 | 20 | 22 | 80 | 70 |

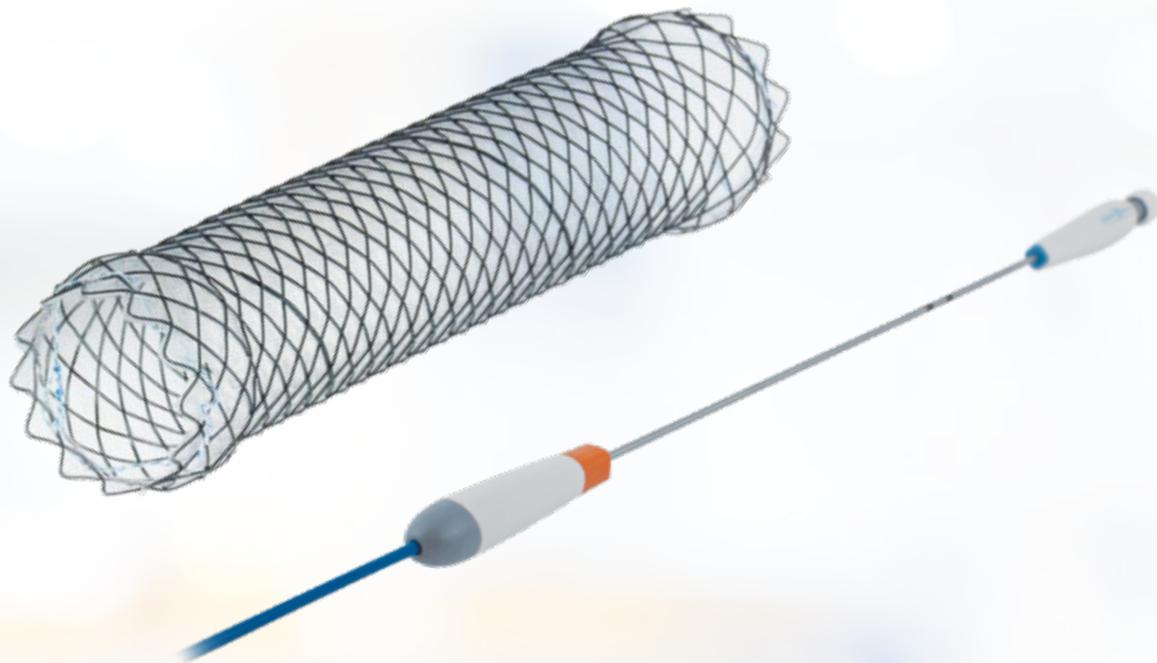
STENTS WITH END-TO-END COVERING

| | | | | |
|-----------------|----|----|----|----|
| 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: 600365-5 Alternative: 600366-5

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



TTS TRACHEAL AND BRONCHIAL STENTS

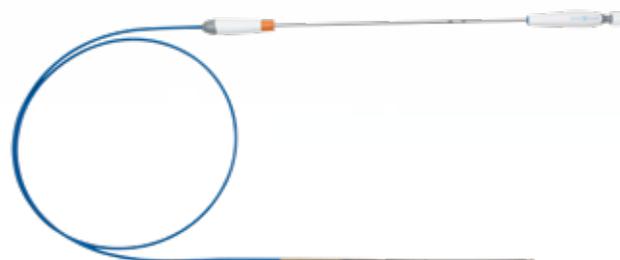
PRECISE CONTROL DURING BRONCHOSCOPY

Our through-the-scope (TTS) tracheal and bronchial stents expand the MICRO-TECH range of self-expanding stents. Unlike over-the-wire models, TTS stents allow easy and safe stent placement when viewed directly through a bronchoscope. Five different diameters and six different

lengths are available. Each stent features a self-expanding Nitinol wire. Together with the uniquely braided stent ends, this ensures maximum hold and minimizes the risk of migration.

SPECIFIC CHARACTERISTICS

- TTS (through the scope)
- Thin application system for 2.8 mm working channels
- Excellent positional stability
- High radial force
- Resistant and elastic silicone coating
- Fully covered stents available
- High radiopacity, but no X-ray required
- Integrated guide wire with atraumatic end
- No rigid bronchoscopy required



Complete system with pre-loaded stent and working length of 120 cm

SUCCESSFUL APPLICATION IN PRACTICE

The signature TTS stent ends provide secure bridging of stenoses and leaks in the trachea. The slightly spherical design ensures a firm hold in any position, which is reinforced by the radial expansion force of the Nitinol wire, enabling the flexible adaptation of the stent to the patient's anatomy.



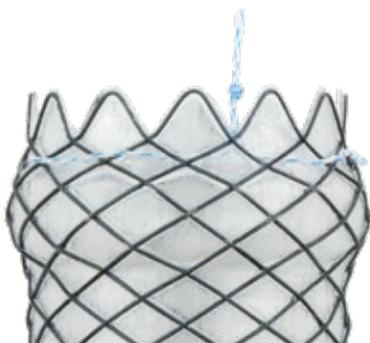
View into the released tracheal stent



Position control during bronchoscopy



Released tracheal stent

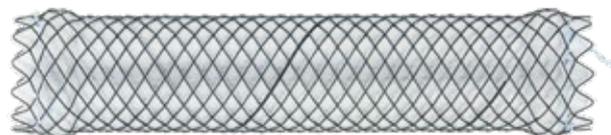


SPECIALLY BRAIDED STENT ENDS

The stent is made from Nitinol wire, which is both highly flexible and retains its shape. The tips at the stent ends have an angle of less than 90° , which holds them in place inside the tissue and minimizes migration. The extraction thread also allows the stent to be repositioned for ideal placement in any situation.

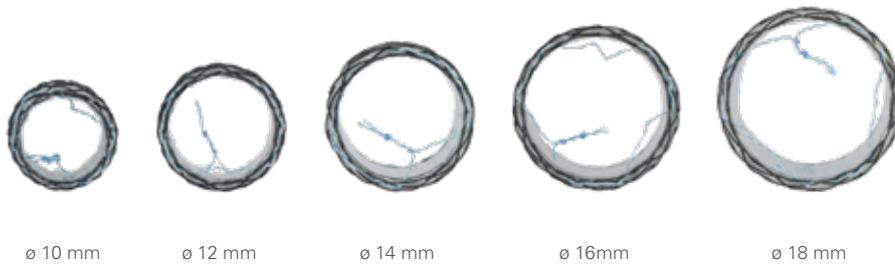
FULLY COVERED

The high-quality covering is particularly resilient and elastic. It fits perfectly to the tracheal wall and ensures reliable ventilation.



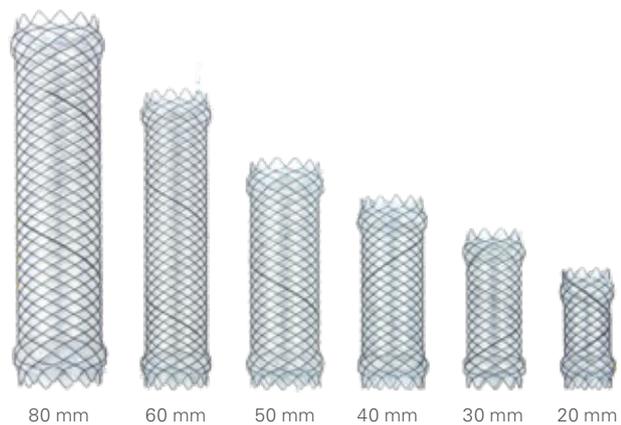
FIVE DIAMETERS TO CHOOSE FROM

To ensure that the stent is ideally adapted to the patient's anatomy, it is available in five different diameters, guaranteeing maximum hold as well as patient comfort.



STENT LENGTHS FROM 20 TO 80 MM

Our TTS stent portfolio includes six lengths ranging from 20 mm to 80 mm. You thus have the ideal solution at your disposal, depending on the distance that needs to be bridged.



INSERTION SYSTEM FOR PRECISE CONTROL



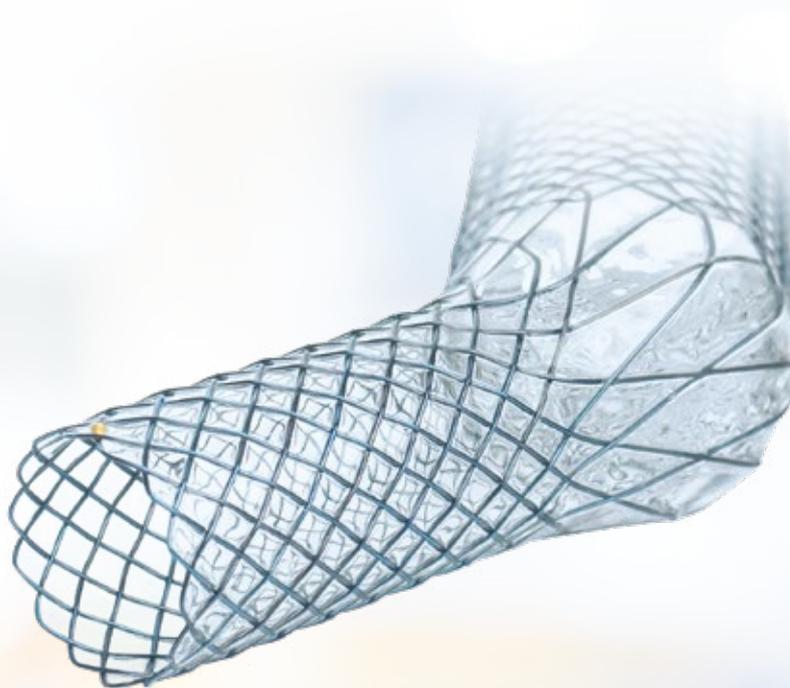
The TTS stent comes pre-loaded in an innovative delivery system and is suitable for bronchoscopes with a working channel of 2.8 mm. The ergonomic design ensures user-friendly operation and accurate placement during bronchoscopy.

SPECIFICATIONS

| REF | Ø mm | Length mm | Working channel mm | Working length mm | End design |
|-------------------|------|-----------|--------------------|-------------------|------------|
| TTS STENTS | | | | | |
| NST12-334-10.020 | 10 | 20 | 2.8 | 1200 | Spherical |
| NST12-334-10.030 | 10 | 30 | 2.8 | 1200 | Spherical |
| NST12-334-10.040 | 10 | 40 | 2.8 | 1200 | Spherical |
| NST12-334-12.020 | 12 | 20 | 2.8 | 1200 | Spherical |
| NST12-334-12.030 | 12 | 30 | 2.8 | 1200 | Spherical |
| NST12-334-12.040 | 12 | 40 | 2.8 | 1200 | Spherical |
| NST12-334-14.020 | 14 | 20 | 2.8 | 1200 | Spherical |
| NST12-334-14.030 | 14 | 30 | 2.8 | 1200 | Spherical |
| NST12-334-14.040 | 14 | 40 | 2.8 | 1200 | Spherical |
| NST12-334-16.040 | 16 | 40 | 2.8 | 1200 | Spherical |
| NST12-334-16.050 | 16 | 50 | 2.8 | 1200 | Spherical |
| NST12-334-16.060 | 16 | 60 | 2.8 | 1200 | Spherical |
| NST12-334-16.080 | 16 | 80 | 2.8 | 1200 | Spherical |
| NST12-334-18.040 | 18 | 40 | 2.8 | 1200 | Spherical |
| NST12-334-18.050 | 18 | 50 | 2.8 | 1200 | Spherical |
| NST12-334-18.060 | 18 | 60 | 2.8 | 1200 | Spherical |
| NST12-334-18.080 | 18 | 80 | 2.8 | 1200 | Spherical |

| | Ø mm/Fr. | Length mm | Guide wire | RM ^{*1} | SA ^{*2} | Lock ^{*3} |
|-------------------------|----------|-----------|---------------------|------------------|------------------|--------------------|
| INSERTION SYSTEM | | | | | | |
| NST12-334-xx.0xx | 2.7/8 | 1200 | No guide wire lumen | 3 | No | Yes |

*1 XM: X-ray marking / *2 RA: rinsing attachment / *3 Lock: secures the insertion system during transport, storage and insertion



CARINA-J-STENT

SUCCESSFUL RISK MANAGEMENT AFTER PNEUMONECTOMY

MICRO-TECH introduces an additional special stent designed specifically for treatment of the respiratory tracts in the shape of the self-expanding Carina-J-Stent. Due to its angled design in the form of a J, the stent can be perfectly placed in the trachea and main bronchus after pneumonectomy has been performed. The fully covered

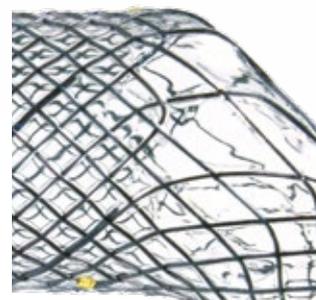
stent protects the surgical suture. At the same time, it seals any existing suture insufficiencies and effectively prevents suture stenoses. You can therefore reduce the risk of complications with the J-stent and accelerate the patient's healing process.

SPECIFIC CHARACTERISTICS

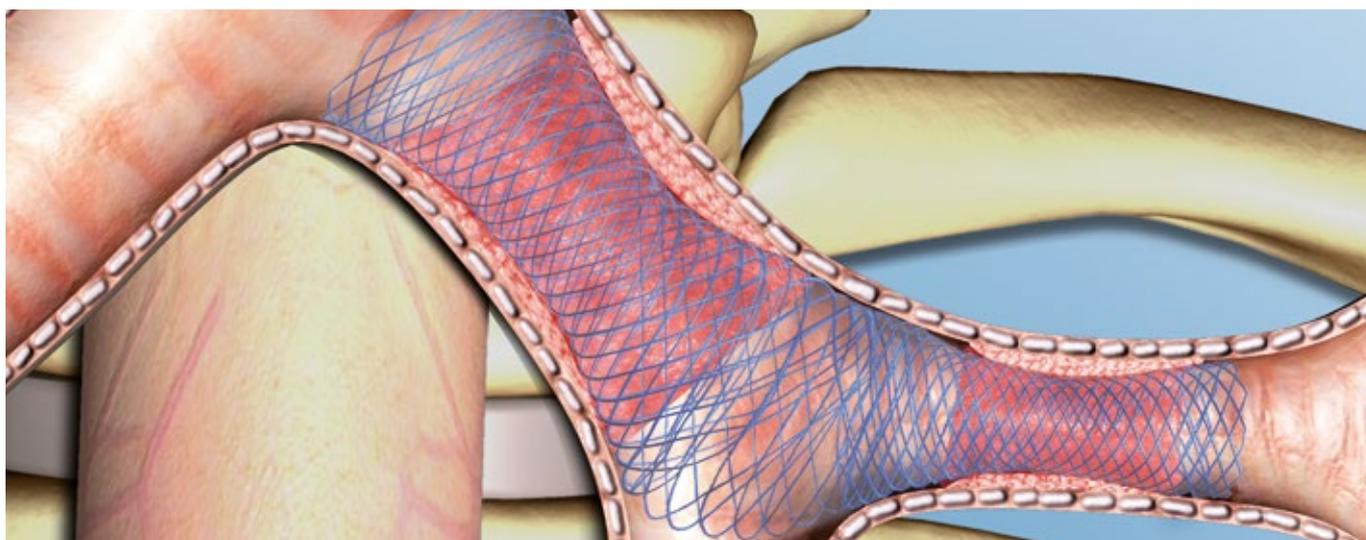
- Angled J-design
- Self-expanding
- Nitinol mesh with atraumatic ends
- Excellent positional stability
- High radial force
- Resistant and elastic covering
- Complete covering
- High radiopacity
- Guide wire-compatible up to 0.035 inches



X-ray marking



Covering

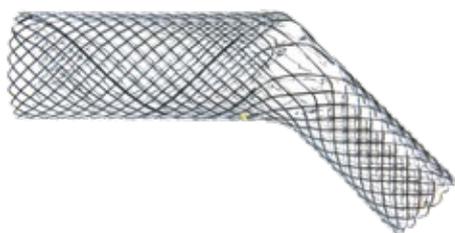


SUCCESSFUL IN PRACTICAL USE

The self-expanding J-stent made of Nitinol is characterized by its excellent radiopacity, as proven by the radiological images. X-ray markings at prominent positions on the stent also improve orientation during release. After deployment, J stents assume efficient expansion which in turn initiates their therapeutic success.



Released J-stent



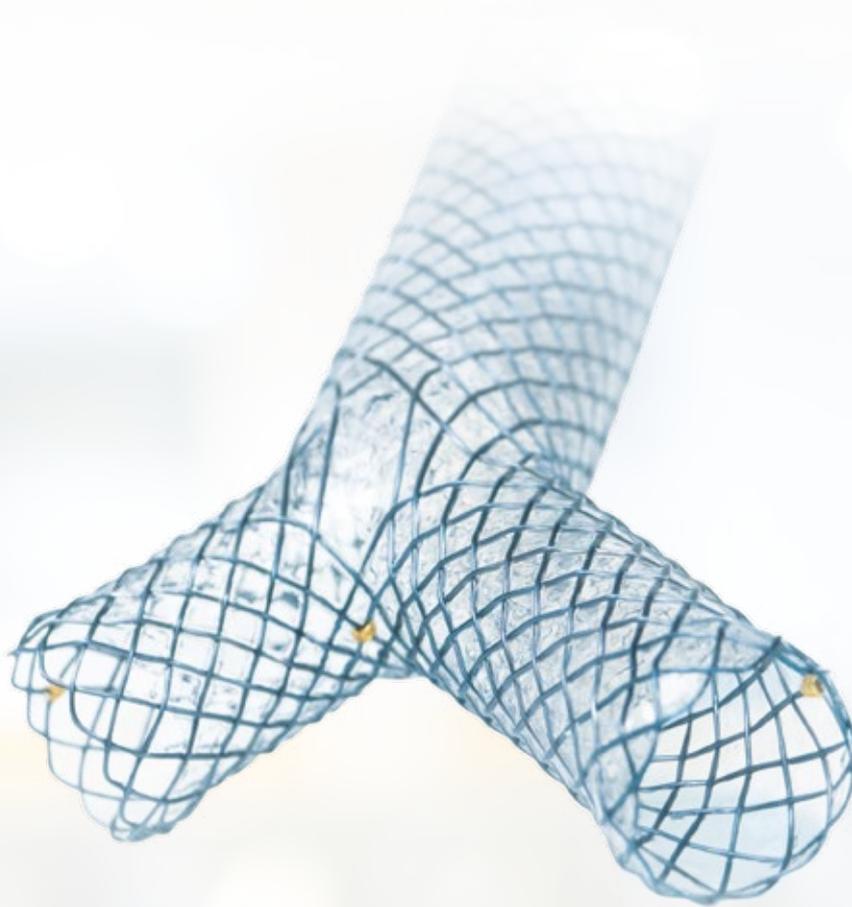
INNOVATIVE STENT DESIGN

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

SPECIFICATIONS

| REF | Tracheal arm | | Bronchial arm | | Covering mm | |
|--|--------------|-----------|---------------|------------------|------------------|--------------------|
| | Ø mm | Length mm | Ø mm | Length 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 |

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



CARINA-Y-STENT

THE ORIGINAL

When it comes to bridging airway stenoses around the Carina, rely on the original Y stent: the Carina Y stent from MICRO-TECH. In 2006, MICRO-TECH was the first company worldwide to develop a self-expanding Y-Stent. and is now the only manufacturer able to offer you fully developed solutions and many years of experience. Thus the innovative Y-design guarantees you a uniquely high

reliability and position stability. The newly developed insertion system also allows you to place the complex stent even more easily and precisely. With six different sizes, the extended range offers you the ideal solution for every need. In addition to stents with a trachea diameter of 16 and 20 mm, you also get stents with a diameter of 18 mm.

SPECIFIC CHARACTERISTICS

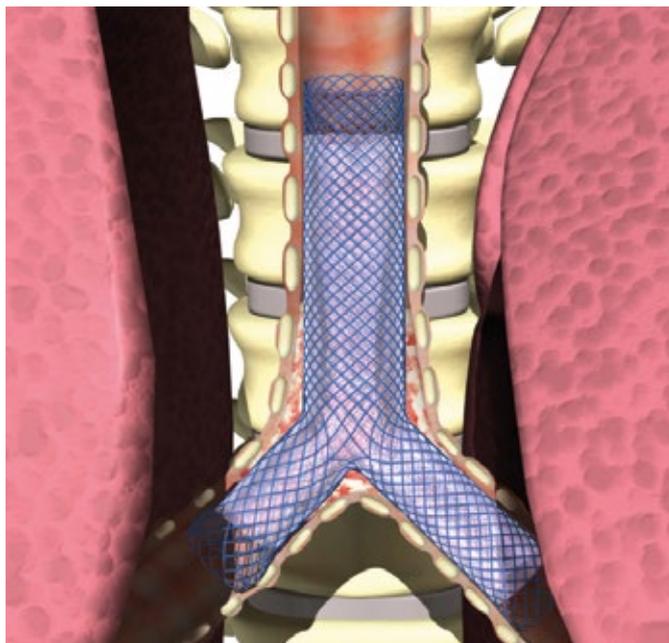
- Y-design
- Self-expanding
- Nitinol mesh with atraumatic ends
- Excellent positional stability
- High radial force
- Resistant and elastic covering
- High radiopacity
- Compatible for 2 guide wires of up to 0.035 inches



X-ray marking and covering

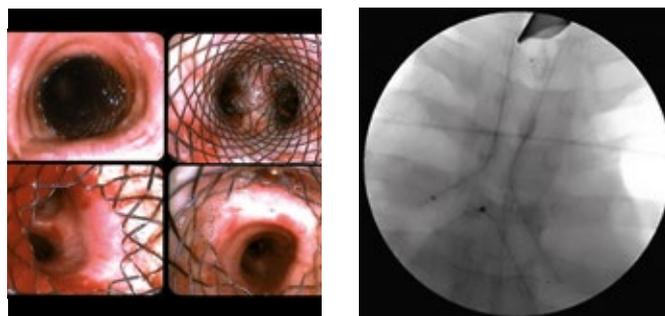


Introducer system for easy positioning



SUCCESSFUL IN PRACTICAL USE

When using the Y-stent from MICRO-TECH, the trachea, both main bronchi and the carina area can be reliably by-passed and sealed. In doing so, the covered Nitinol mesh adapts to the anatomy ideally. The excellent radiopacity of the stent and 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 precise placement. The new ergonomic 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.

SPECIFICATIONS

| REF | Ø trachea mm | Length trachea mm | Ø main bronchi mm | Length main bronchi mm right (no. covering) / left | | |
|--------------------------|--------------|-------------------|-------------------|---|------------------|--------------------|
| CARINA-Y-STENT | | | | | | |
| 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 |

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

