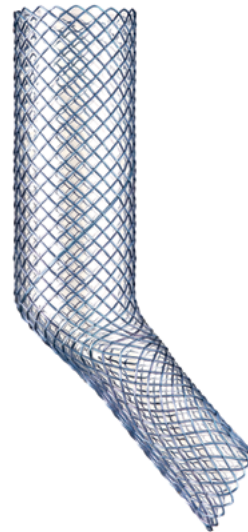




a bess group company

## Stents for Interventional Pneumology



## CONTENTS

### **aerstent® and aixstent®**

#### **self-expanding Nitinol stents**

|  |          |
|--|----------|
| <b>aerstent® TBS Trachea-Bronchus-Stent.....</b>   | <b>4</b> |
| <b>aerstent® TBY Y Carina-Stent .....</b>          | <b>5</b> |
| <b>aerstent® TBJ J Carina-Stent .....</b>          | <b>6</b> |
| <b>aerstent® GWA Guide wire .....</b>              | <b>7</b> |
| <b>aixstent® OES Esophagus-Stent .....</b>         | <b>8</b> |
| <b>aixstent® OEL Esophagus Leakage Stent .....</b> | <b>9</b> |



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## FOR YOU WE WALK THE EXTRA MILE



Inspiring solutions. Convincing quality.  
Advice that leaves no question unanswered.  
Since 2003 Leufen Medical has been offering self-expanding stents for Pulmonology.  
Our high demands on quality and functionality have earned us the trust of doctors and patients and have made us market leaders in Germany for tracheo-bronchial stents.

Not only German Doctors appreciate our products.  
Due to the high international demand, we cooperate with selected certified distributors.  
Expansion means for us: Being there. Personally.  
Professionally.

Expansion also means: driving innovation, developing new ideas and turning visions into reality. At congresses and in cooperation with our partners we present the latest developments in the field of medical device technology and their clinical application.



To manage the future and the increasing regulatory requirements for our innovative products, Leufen Medical has become a subsidiary of bess AG in 2014. The bess group is an owner-managed company located in Berlin with more than 25 years expertise in the medical device industry.

The bess group comprises of several medical device manufacturers, including Novatech SA, manufacturer of the original DUMON® / GSS™ tracheobronchial stents. A member of the bess group, Leufen Medical can now make use of highly specialized services to continue and extend our tried-and-tested product lines.

Combining forces, we look forward to improving our support and quality to you!

## CUSTOM DESIGN

Each patient has their own story. Each diagnosis is individual. Good thing Leufen Medical offers a wide range of stents in different lengths and diameters to meet the needs of each patient. In special cases, we manufacture individual stents for your patient.

Use our service form on page 11 of this catalogue!

## aerstent®

## aixstent®

In addition to the **aerstents®** contained in this catalogue, Leufen Medical provides **aixstents®**, self-expanding Nitinol stents for gastroenterology. With its optimal radial force they provide a perfect fit.  
Their handling is intuitive: Pre-loaded in a delivery system, Leufen stents can be navigated accurately and safely. Please ask for our Gastroenterology catalogue!



## aerstent® TBS Trachea-Bronchus-Stent

Leufen Medical offers a comprehensive range of self-expandable tracheal and bronchial stents with diameters from 10 to 22 mm and lengths from 20 to 80 mm.

TBS stents have design features such as atraumatic ends and a strong radial force which helps to prevent migration.

The tracheal and bronchial stents are pre-mounted on a reloadable delivery system. For a precise positioning, the stent can be retracted into the delivery system during the procedure.



| aerstent® TBS<br>complete silicone cover |                      |                      |                     |                  |
|--|----------------------|----------------------|---------------------|------------------|
| REF                                      | Total length<br>(mm) | Cover length<br>(mm) | Ø<br>middle<br>(mm) | Ø<br>end<br>(mm) |
| 503-10-020                               | 20                   | 20                   | 10                  | 12               |
| 503-10-030                               | 30                   | 30                   | 10                  | 12               |
| 503-12-020                               | 20                   | 20                   | 12                  | 14               |
| 503-12-040                               | 40                   | 40                   | 12                  | 14               |
| 503-14-020                               | 20                   | 20                   | 14                  | 16               |
| 503-14-030                               | 30                   | 30                   | 14                  | 16               |
| 503-14-040                               | 40                   | 40                   | 14                  | 16               |
| 503-16-030                               | 30                   | 30                   | 16                  | 18               |
| 503-16-040                               | 40                   | 40                   | 16                  | 18               |
| 503-16-050                               | 50                   | 50                   | 16                  | 18               |
| 503-16-060                               | 60                   | 60                   | 16                  | 18               |
| 503-16-080                               | 80                   | 80                   | 16                  | 18               |
| 503-18-030                               | 30                   | 30                   | 18                  | 20               |
| 503-18-040                               | 40                   | 40                   | 18                  | 20               |
| 503-18-050                               | 50                   | 50                   | 18                  | 20               |
| 503-18-060                               | 60                   | 60                   | 18                  | 20               |
| 503-18-080                               | 80                   | 80                   | 18                  | 20               |
| 503-20-040                               | 40                   | 40                   | 20                  | 22               |
| 503-20-050                               | 50                   | 50                   | 20                  | 22               |
| 503-20-060                               | 60                   | 60                   | 20                  | 22               |
| 503-20-080                               | 80                   | 80                   | 20                  | 22               |
| 503-22-060                               | 60                   | 60                   | 22                  | 24               |

### CHARACTERISTICS

- Stent with complete silicone cover
- Atraumatic ends
- High radial force due to Nitinol
- Reloadable delivery system  
Working length 600 mm, OTW  
Ø 6 mm / 18 French:  
(for stent Ø 10, 12 und 14 mm)  
Ø 8 mm / 24 French:  
(for stent Ø 16, 18, 20 und 22 mm)

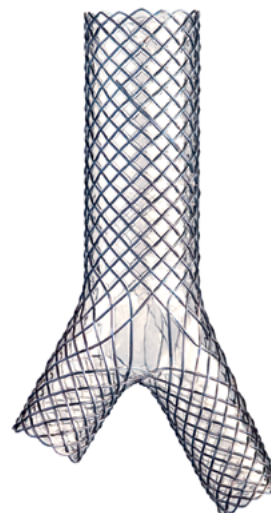
## aerstent® TBY Y-Carina-Stent

The Y carina-stent is used to bridge benign or malignant stenoses in the trachea and in the right or left main bronchus.

Y carina stents are available with diameters of 16 to 20 mm in the tracheal section.

The Y carina-stent is preloaded on an 8 mm delivery system.

For the implantation of the Y carina stent, rigid intubation using a tracheoscope or a bronchoscope with an inner diameter of at least 10 mm is recommended.



### CHARACTERISTICS

- Stent with partial PU cover (right bronchus 5 mm uncovered)
- Atraumatic ends
- Anatomically correct, conical design
- High radial force due to Nitinol
- Radiopaque tantalum markers
- Delivery system  
Working length 600 mm, OTW  
Ø 8 mm/ 24 French  
Accepts guide wire 0.035 inch

#### aerstent® TBY

partially PU covered (right bronchus 5 mm uncovered)

| REF        | Trachea (mm) |      | Bronchus right (mm) |      | Bronchus left (mm) |      |
|------------|--------------|------|---------------------|------|--------------------|------|
| 512-16-040 | Ø 16         | L 40 | Ø 12                | L 20 | Ø 12               | L 30 |
| 512-18-040 | Ø 18         | L 40 | Ø 12                | L 20 | Ø 12               | L 30 |
| 512-18-050 | Ø 18         | L 50 | Ø 14                | L 20 | Ø 14               | L 30 |
| 512-20-050 | Ø 20         | L 50 | Ø 14                | L 20 | Ø 14               | L 30 |
| 522-16-040 | Ø 16         | L 40 | Ø 12                | L 15 | Ø 12               | L 30 |
| 522-18-040 | Ø 18         | L 40 | Ø 12                | L 15 | Ø 12               | L 30 |
| 522-18-050 | Ø 18         | L 50 | Ø 14                | L 15 | Ø 14               | L 30 |
| 522-20-050 | Ø 20         | L 50 | Ø 14                | L 15 | Ø 14               | L 30 |



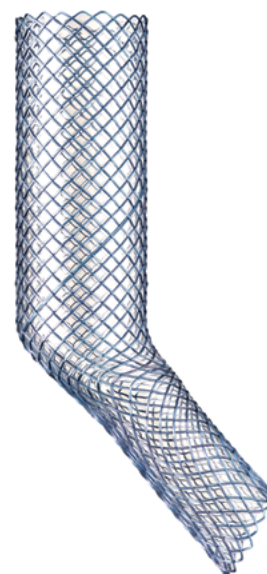
## aerstent® TBJ J-Carina-Stent

The aerstent® TBJ is used to bridge an anastomotic leakage or to cover a fistula after pneumonectomy.

The J-carina-stent is pre-mounted on a reloadable delivery system. For correction of the stent position, the stent can be reloaded into the delivery system during the procedure.

### CHARACTERISTICS

- Stent with complete silicone cover
  - Atraumatic ends
  - High radial force due to Nitinol
  - Radiopaque tantalum markers
  - Reloadable delivery system
- Working length 600 mm, OTW  
Ø 8 mm / 24 French  
Accepts guide wire 0.035 inch



### aerstent® TBJ

#### complete silicone cover

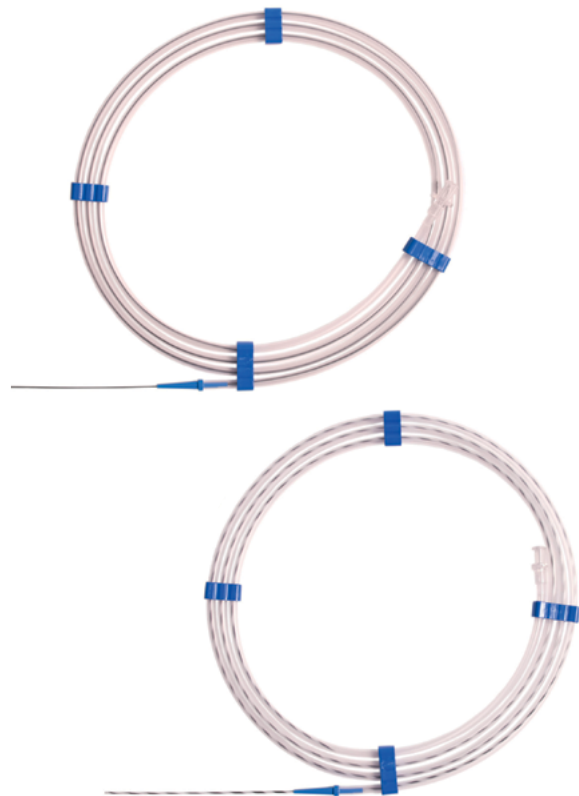
| REF        | Trachea Ø<br>(mm) | Trachea<br>length (mm) | Bronchus Ø<br>(mm) | Bronchus<br>length (mm) |
|------------|-------------------|------------------------|--------------------|-------------------------|
| 533-16-030 | 16                | 30                     | 12                 | 30                      |
| 533-18-040 | 18                | 40                     | 14                 | 30                      |
| 533-20-050 | 20                | 50                     | 14                 | 30                      |

## aerstent® GWA Guide Wire

The 0.035 inch single use guide wire is used to complement the delivery systems of the **aerstent®** product line. The PTFE (polytetrafluoroethylene) coating of the guide wire significantly reduces friction resistance.

For the distinction of the right and left main bronchus during the procedure, the guide wires are color coded. Their high stability is achieved by an inner core made of a Nitinol monofilament. The distal wire tip forms a flexible, atraumatic coil, characterized by excellent radiopacity.

The 0.035 inch guide wire is pre-loaded into a spiral dispenser. The gliding properties of the guide wire can be further improved significantly by flushing the dispenser with sterile saline solution, covering the guide wire with liquid.



### CHARACTERISTICS

- Kink free and stable Nitinol core
- Very good gliding properties due to PTFE-coating
- Highly flexible, radiopaque tip
- Individually sealed in a sterile peel-pack
- Supplied in a dispenser with insertion aid

| aerstent® GWA · Guide Wire |                             |                      |         |        |
|----------------------------|-----------------------------|----------------------|---------|--------|
| REF                        | Characteristics             | Diameter             | Length  | PU     |
| 901-35-180                 | Nitinol / color black       | 0.035 inch / 0,89 mm | 1800 mm | 01 pce |
| 902-35-180                 | Nitinol / color black/white | 0.035 inch / 0,89 mm | 1800 mm | 01 pce |

## **aixstent® OES** **Esophageal Stent**

Leufen Medical offers a wide range of self-expandable esophageal stents with diameters of 20 and 24 mm and lengths from 60 to 140 mm.

OES stents have design features such as atraumatic ends and a strong radial force which helps to prevent migration.

OES Esophageal Stents are pre-mounted on their reloadable delivery system. For correction of the stent position, the stent can be reloaded into the delivery system during the procedure.

Strategically placed radiopaque tantalum markers make the stents clearly visible in fluoroscopy.



| aixstent® OES<br>partial silicone cover |                      |                      |                  |               |
|---|----------------------|----------------------|------------------|---------------|
| REF                                     | total length<br>(mm) | cover length<br>(mm) | Ø middle<br>(mm) | Ø end<br>(mm) |
| 102-20-060                              | 60                   | 30                   | 20               | 26            |
| 102-20-080                              | 80                   | 50                   | 20               | 26            |
| 102-20-100                              | 100                  | 70                   | 20               | 26            |
| 102-20-120                              | 120                  | 90                   | 20               | 26            |
| 102-20-140                              | 140                  | 110                  | 20               | 26            |
| 102-24-080                              | 80                   | 50                   | 24               | 30            |
| 102-24-100                              | 100                  | 70                   | 24               | 30            |
| 102-24-120                              | 120                  | 90                   | 24               | 30            |
| 102-24-140                              | 140                  | 110                  | 24               | 30            |

| aixstent® OES<br>complete silicone cover |                      |                      |                  |               |
|--|----------------------|----------------------|------------------|---------------|
| REF                                      | total length<br>(mm) | cover length<br>(mm) | Ø middle<br>(mm) | Ø end<br>(mm) |
| 103-20-080                               | 80                   | 80                   | 20               | 26            |
| 103-20-100                               | 100                  | 100                  | 20               | 26            |
| 103-20-120                               | 120                  | 120                  | 20               | 26            |
| 103-20-140                               | 140                  | 140                  | 20               | 26            |
| 103-24-080                               | 80                   | 80                   | 24               | 30            |
| 103-24-100                               | 100                  | 100                  | 24               | 30            |
| 103-24-120                               | 120                  | 120                  | 24               | 30            |
| 103-24-140                               | 140                  | 140                  | 24               | 30            |

### **CHARACTERISTICS**

- Stent with partial or complete silicone cover
- Atraumatic ends
- Extraction threads of high tensile strength on both ends
- High radial force due to Nitinol
- Radiopaque tantalum markers
- Reloadable delivery system  
Working length 700 mm, OTW  
Ø 8 mm / 24 French  
Accepts guide wire 0.035 inch



## **aixstent® OEL** **Esophageal Leakage Stent**

To cover tracheo- or broncho-esophageal fistulas or in case of spontaneous or iatrogenic ruptures (such as Boerhaave syndrome), we offer 80, 100 and 120 mm stents with a diameter of 28 mm.

OEL stents have design features such as atraumatic ends and a strong radial force which helps to prevent migration.

OEL Esophageal Leakage Stents are pre-mounted on their reloadable delivery system. For correction of stent position, the stent can be reloaded into the delivery system during the procedure.

Strategically placed radiopaque tantalum markers make the stents clearly visible in fluoroscopy.



### **CHARACTERISTICS**

- Stent with complete silicone cover
  - Atraumatic ends
  - Extraction threads of high tensile strength on both ends
  - High radial force due to Nitinol
  - Radiopaque tantalum markers
  - Reloadable delivery system
- Working length 700 mm, OTW  
Ø 8 mm / 24 French  
Accepts guide wire 0.035 inch

| aixstent® OEL<br>complete silicone cover |                      |                      |                  |               |
|--|----------------------|----------------------|------------------|---------------|
| REF                                      | total length<br>(mm) | cover<br>length (mm) | Ø middle<br>(mm) | Ø end<br>(mm) |
| 103-28-080                               | 80                   | 80                   | 28               | 34            |
| 103-28-100                               | 100                  | 100                  | 28               | 34            |
| 103-28-120                               | 120                  | 120                  | 28               | 34            |



## REQUEST FOR CUSTOMIZATION Nitinol Stent for Pneumology



**Leufen Medical GmbH**  
Gustav-Krone-Straße 7  
D-14167 Berlin

Tel +49-30 816 90 93 00  
Fax +49-30 816 90 93 93  
contact@leufen-medical.eu



Unique patient identifier / Patient number

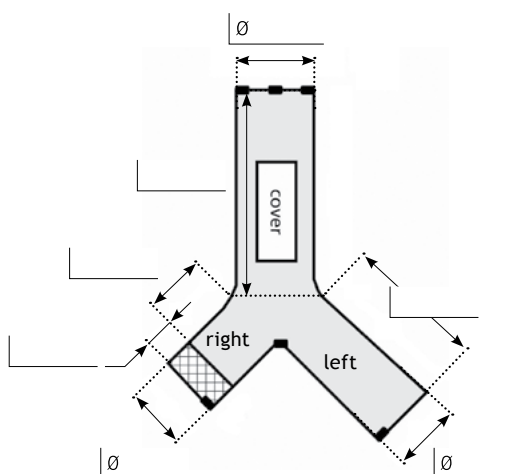
O R

Surname, first name

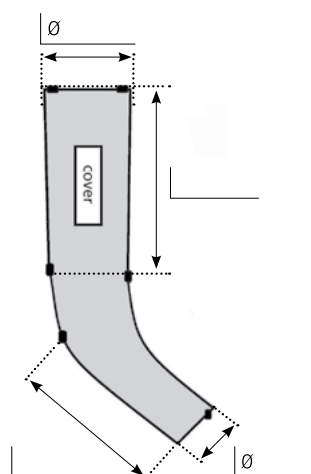
Date of birth

Indication

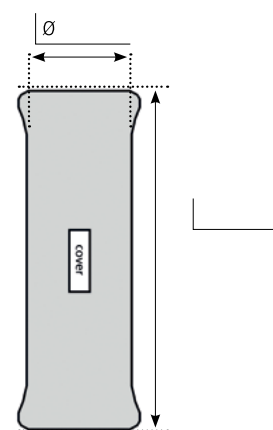
Please tick and provide dimensions!



☐ Y Carina



☐ J Carina



☐ Bronchus  
☐ Trachea

It is in the prescribing doctor's responsibility to determine whether this custom made stent is suitable for the patient.

Doctor's name

Address / stamp

Telephone

Doctor's signature

Order by purchasing department

Order number

Signature

Leufen Medical internal: checked and approved

Medical device consultant Leufen

Date / Signature

Cover

☐ partial Cover (Please mark in drawing,  
Y Carina: right main bronchus 5 mm without cover)


☐ complete Cover

☐ without cover

Extraction thread ☐ Proximal ☐ Distal

X-ray marker if applicable, draw differing position of x-ray marker

The manufacturer of the stent (bess pro gmbh – Leufen Division) confirms, that the customized stent described above will be manufactured in strict compliance with the Council Directive 93/42/EEC annex VIII.

The products in this catalog are -marked.



Please note that only the instructions for use enclosed with the respective product apply. Details in this catalogue about the use of products serve as a guide only and reflect the information available at the time of print. If necessary, please request a current version!



bess pro gmbh — Leufen Division, Berlin, Germany

Your local contact:

