

Unique X-Ray Visibility

## DERIVO<sup>®</sup> Embolisation Device



SMOOTH.  
RELIABLE.  
PRECISE.

**xcandis<sup>®</sup>**

ENGINEERING STROKE SOLUTIONS



## ADVANCED TECHNOLOGY FOR THE TREATMENT OF INTRACRANIAL ANEURYSMS

### SMOOTH.

- **Less friction during delivery and expansion** due to
  - BlueXide® Surface Finishing
  - Closed distal ends
- **Good vessel wall conformability** based on
  - Special braiding properties

### RELIABLE.

- **Secure wall apposition** because of
  - Flared ends
  - Closed distal ends
- **Better corrosion resistance and lower thrombogenicity** related to
  - BlueXide® Surface Finishing

### PRECISE.

- **Enhanced visualisation** as a result of
  - Nitinol Composite Wires with Platinum core
  - Three Platinum-Iridium X-Ray markers on both ends
- **Accurate placement** thanks to
  - Nitinol transport wire with s.e.c.u.r.e. GP Technology
  - Resheathability

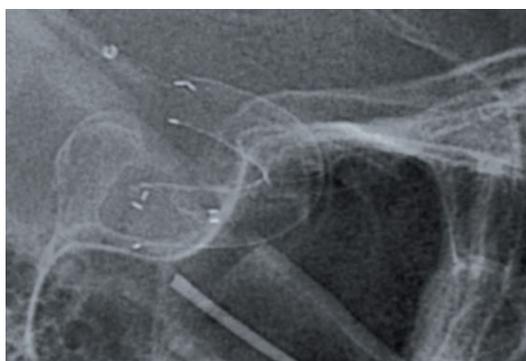
## PROVEN TECHNOLOGY – SAFE AND EFFICIENT

### New composite wire concept for outstanding visibility of the DERIVO® contour

Treatment of left saccular ICA aneurysm with DERIVO® 5.0 mm x 20 mm



Excellent visibility of DERIVO® contour even in front of dense bone structures. View inside the lumen is possible.

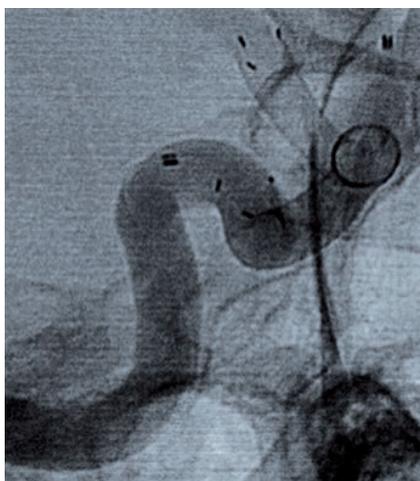


Opening of DERIVO® in tight curve is clearly visible.

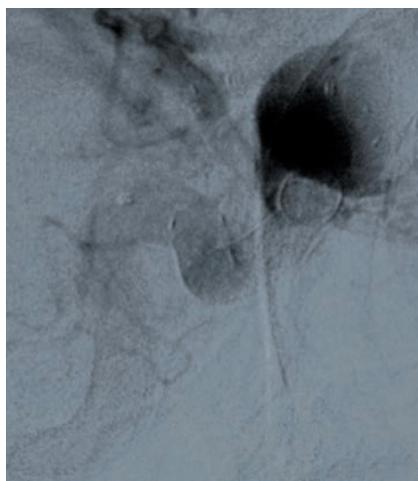
*Images by courtesy of: Prof. Reith, Department of Neuroradiology, Saarland University Hospital, Homburg, Germany*

### Balanced mechanical properties for excellent clinical performance

Treatment of large right ICA aneurysm with DERIVO® 4.0 mm x 30 mm



Perfect wall apposition: DERIVO® contour follows exactly the tortuous shape of the vessel.

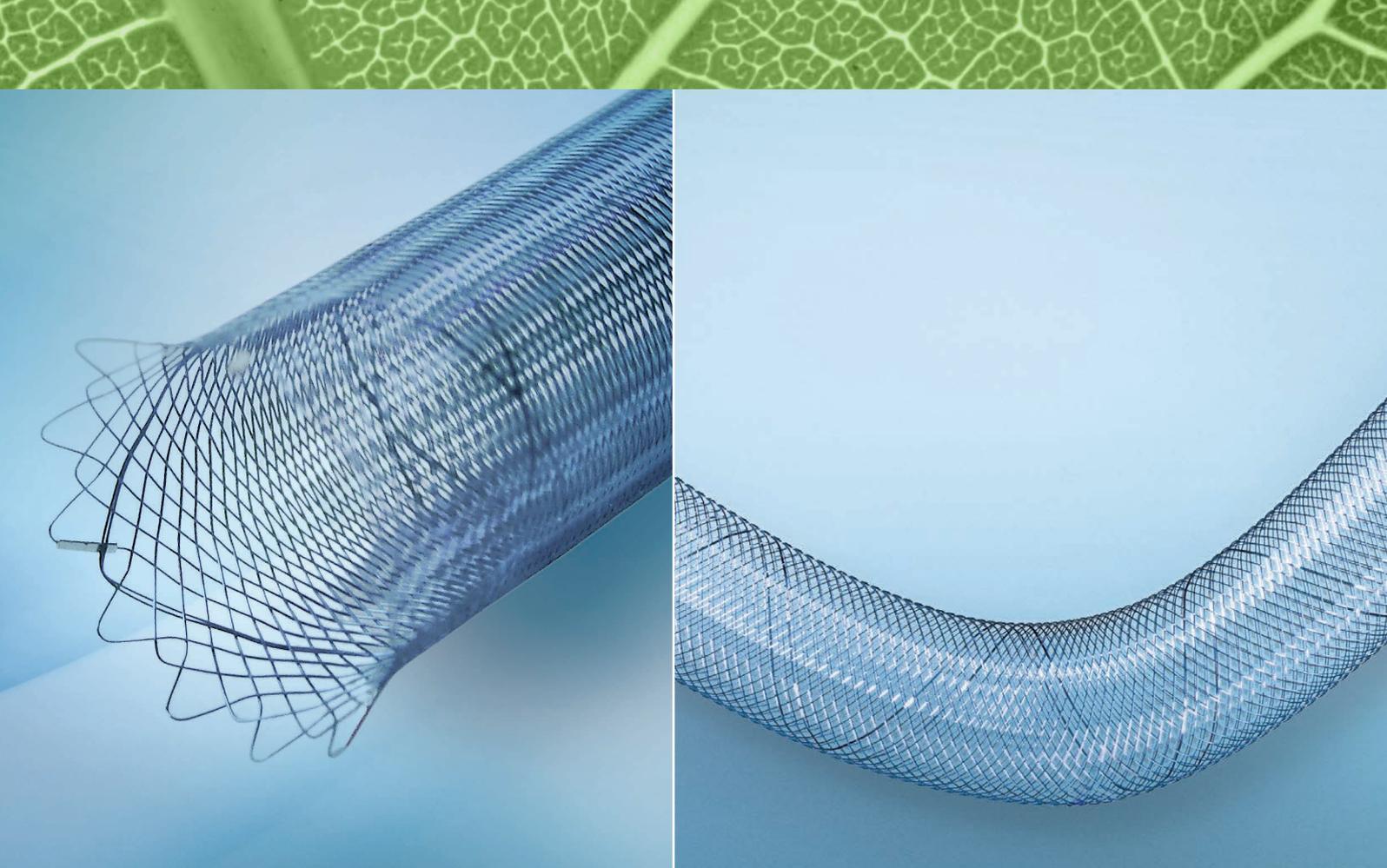


Immediate flow diversion effect after DERIVO® placement.



Excellent visibility of fully released DERIVO®.

*Images by courtesy of: Dr. Prothmann, Klinikum rechts der Isar, Department of Diagnostic and Interventional Neuroradiology, Technical University Munich, Germany*



## FLOW – WHERE IT SHOULD BE

Acandis® is using the latest technological developments to ensure a smooth, reliable and precise treatment of intracranial aneurysms with the DERIVO® Embolisation Device.

### **BlueXide® Surface Finishing**

The Acandis® proprietary BlueXide® Surface Finishing Technology ensures less friction during delivery through the microcatheter as well as during expansion, making the opening of the device smooth and reliable. This finishing contributes to better corrosion resistance which might lead to lower thrombogenicity.

### **Nitinol Composite Wires**

The entire device consists of Nitinol Composite Wires with Platinum core leading to an outstanding visualisation of the contour and shape of the device under fluoroscopy.

### **X-Ray Markers**

Three Platinum-Iridium X-Ray markers are positioned on each end of the DERIVO® Embolisation Device for an accurate placement.

### **Closed Distal Ends**

The closed distal ends of the DERIVO® Embolisation Device help in delivering the device smoothly and releasing it simply, as they create less friction during the delivery through the microcatheter. Additionally these ends are less traumatic, even if the implant is oversized in the distal part of the vessel.

### **Flared Ends**

The DERIVO® Embolisation Device has flared ends for a secure wall apposition immediately after the initial distal opening, while the foreshortening on the proximal end is reduced.



### Flow Diversion

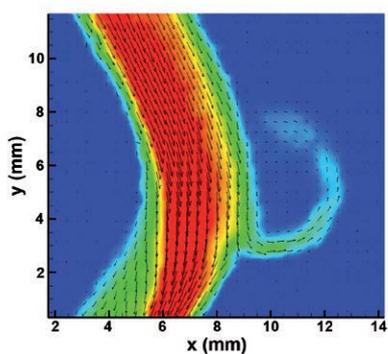
The mesh density enables flow diversion away from the aneurysm while maintaining the flow into the side branches. Particle Image Velocimetry (PIV) proves the effectiveness of the DERIVO® Embolisation Device flow diversion properties.

### Vessel Wall Conformability

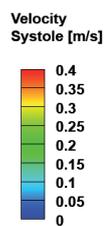
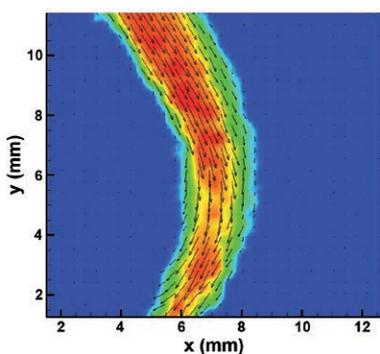
The braiding design ensures a good vessel wall conformability, even in highly variable vessel diameters and in tortuous anatomies.

### Velocity during Systole

Reference without Derivo® Embolisation Device

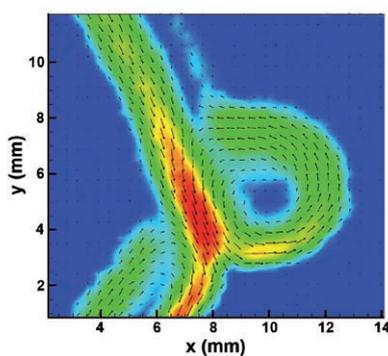


With Derivo® Embolisation Device

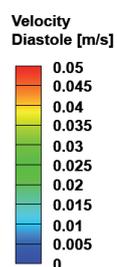
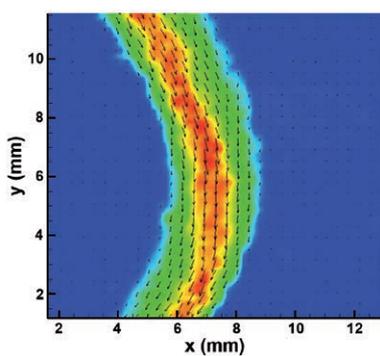


### Velocity during Diastole

Reference without Derivo® Embolisation Device



With Derivo® Embolisation Device



Particle Image Velocimetry (PIV) by courtesy of:  
Dept. of Cardiovascular Engineering RWTH  
Aachen (CVE/AME)

## PROCEDURE – RELIABLE AND EFFECTIVE

### s.e.c.u.r.e. GP Technology

The DERIVO® Embolisation Device is equipped with a Nitinol transport wire using the s.e.c.u.r.e. GP Technology engineered to meet the demands of a reliable and effective procedure.

**S-** safe

**E-** enhanced

**C-** controlled

**U-** unique

**R-** reliable

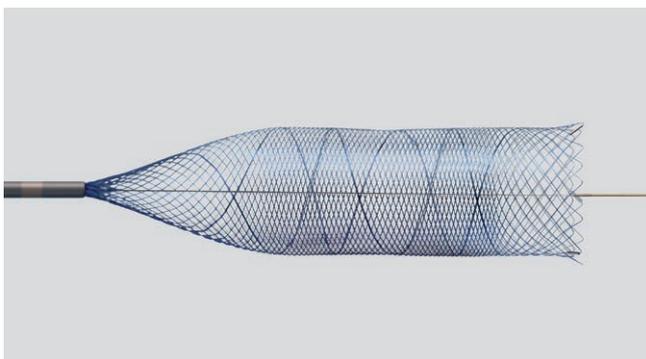
**E-** effective

The sleek surface of the transport wire changes into a unique – optically and tactile perceptible – checkered surface at the fluoroscopy marker point, to enhance the grip and push for a controlled and safe placement of the DERIVO® Embolisation Device.

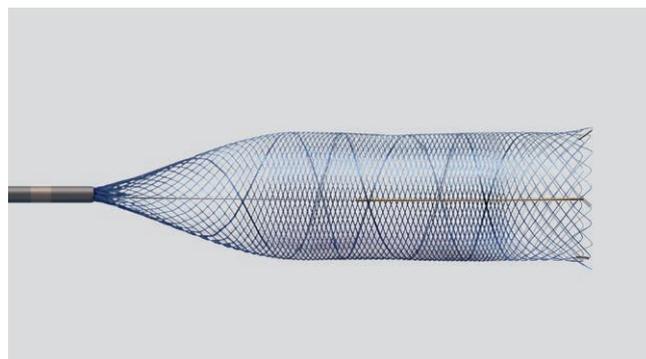
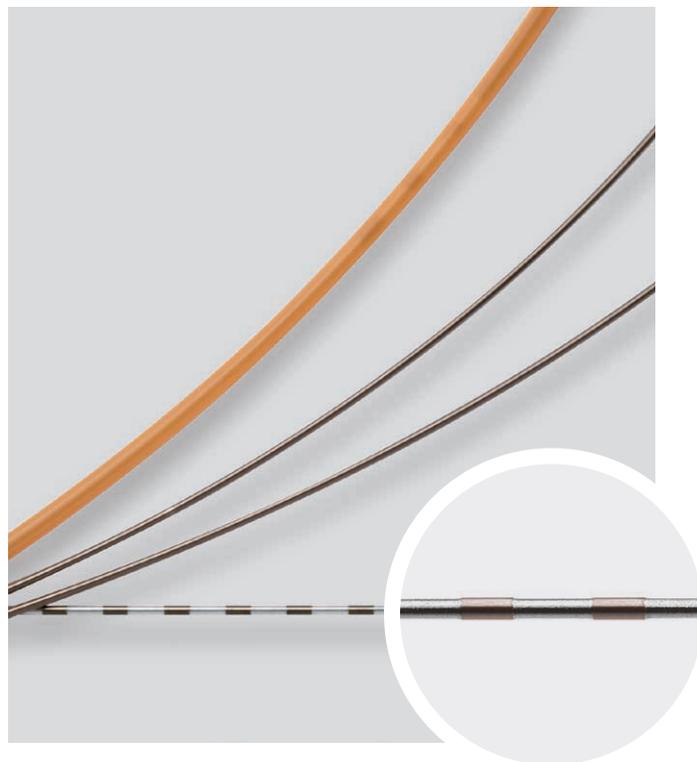
### Resheathability

The device can be safely recaptured and repositioned if an adjustment and superior placement is needed.

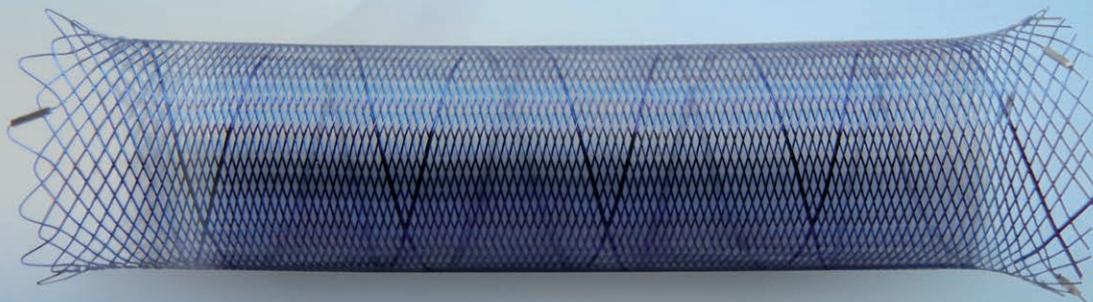
### Tip Design



**With tip** – for additional distal support and retention of device access after release.



**Without tip (only applicable for 40 mm and 50 mm device lengths)** – for more flexibility and tip control in the treatment of long lesions.



## SIZING SUPPORT CHART – DERIVO® EMBOLISATION DEVICE

| Labelled DERIVO® Dimensions (mm) | Reference Number |               | Unconstrained DERIVO® Dimensions (mm) | DERIVO® Lengths in corresponding Intended Use Diameters (mm) |     |     |  |
|----------------------------------|------------------|---------------|---------------------------------------|--|-----|-----|--|
|                                  |                  | Ø             | 3.7                                   | 3.5  | 3.0 | 2.5 |  |
| 3.5 × 15                         | 01-000408        | Device Length | 10                                    | 15   | 20  | 25  |  |
| 3.5 × 20                         | 01-000409        |               | 13                                    | 20   | 27  | 32  |  |
| 3.5 × 25                         | 01-000410        |               | 16                                    | 25   | 35  | 41  |  |
| 3.5 × 30                         | 01-000411        |               | 19                                    | 30   | 41  | 48  |  |
| 3.5 × 40                         | 01-000415        |               | 25                                    | 40   | 53  | 66  |  |
|                                  |                  | Ø             | 4.2                                   | 4.0  | 3.5 | 3.0 |  |
| 4.0 × 15                         | 01-000381        | Device Length | 11                                    | 15   | 20  | 25  |  |
| 4.0 × 20                         | 01-000330        |               | 14                                    | 20   | 27  | 32  |  |
| 4.0 × 25                         | 01-000335        |               | 17                                    | 25   | 35  | 41  |  |
| 4.0 × 30                         | 01-000340        |               | 20                                    | 30   | 41  | 48  |  |
| 4.0 × 40                         | 01-000360        |               | 26                                    | 40   | 53  | 66  |  |
|                                  |                  | Ø             | 4.7                                   | 4.5  | 4.0 | 3.5 |  |
| 4.5 × 15                         | 01-000382        | Device Length | 11                                    | 15   | 20  | 25  |  |
| 4.5 × 20                         | 01-000331        |               | 14                                    | 20   | 27  | 32  |  |
| 4.5 × 25                         | 01-000336        |               | 17                                    | 25   | 35  | 41  |  |
| 4.5 × 30                         | 01-000341        |               | 20                                    | 30   | 41  | 48  |  |
| 4.5 × 40                         | 01-000361        |               | 26                                    | 40   | 53  | 66  |  |
|                                  |                  | Ø             | 5.2                                   | 5.0  | 4.5 | 4.0 |  |
| 5.0 × 15                         | 01-000383        | Device Length | 11                                    | 15   | 20  | 23  |  |
| 5.0 × 20                         | 01-000332        |               | 14                                    | 20   | 27  | 32  |  |
| 5.0 × 25                         | 01-000337        |               | 17                                    | 25   | 35  | 41  |  |
| 5.0 × 30                         | 01-000342        |               | 20                                    | 30   | 41  | 48  |  |
| 5.0 × 40                         | 01-000362        |               | 26                                    | 40   | 53  | 62  |  |
| 5.0 × 50                         | 01-000363        | 34            | 50                                    | 68   | 82  |     |  |
|                                  |                  | Ø             | 5.7                                   | 5.5  | 5.0 | 4.5 |  |
| 5.5 × 15                         | 01-000384        | Device Length | 11                                    | 15   | 20  | 23  |  |
| 5.5 × 20                         | 01-000333        |               | 14                                    | 20   | 27  | 32  |  |
| 5.5 × 25                         | 01-000338        |               | 17                                    | 25   | 35  | 41  |  |
| 5.5 × 30                         | 01-000343        |               | 20                                    | 30   | 41  | 48  |  |
| 5.5 × 40                         | 01-000364        |               | 26                                    | 40   | 53  | 62  |  |
| 5.5 × 50                         | 01-000365        | 34            | 50                                    | 68   | 82  |     |  |
|                                  |                  | Ø             | 6.2                                   | 6.0  | 5.5 | 5.0 |  |
| 6.0 × 15                         | 01-000385        | Device Length | 11                                    | 15   | 20  | 23  |  |
| 6.0 × 20                         | 01-000334        |               | 14                                    | 20   | 27  | 32  |  |
| 6.0 × 25                         | 01-000339        |               | 17                                    | 25   | 35  | 41  |  |
| 6.0 × 30                         | 01-000344        |               | 20                                    | 30   | 41  | 48  |  |
| 6.0 × 40                         | 01-000366        |               | 26                                    | 40   | 53  | 62  |  |
| 6.0 × 50                         | 01-000367        | 34            | 50                                    | 68   | 82  |     |  |

Note: all indicated lengths can vary within a tolerance range of +/- 1mm

# ORDERING INFORMATION

| Labelled DERIVO® Diameter (mm) | Labelled DERIVO® Length (mm) | Reference Number | Recommended Vessel Diameter (mm) | Required Microcatheter for Delivery ** (inch) |
|--------------------------------|------------------------------|------------------|----------------------------------|---|
| 3.5                            | 15                           | 01-000408        | 2.5 – 3.5                        | 0.027   |
|                                | 20                           | 01-000409        |                                  |   |
|                                | 25                           | 01-000410        |                                  |   |
|                                | 30                           | 01-000411        |                                  |   |
|                                | 40                           | 01-000415*       |                                  |   |
| 4.0                            | 15                           | 01-000381        | 3.0 – 4.0                        |   |
|                                | 20                           | 01-000330        |                                  |   |
|                                | 25                           | 01-000335        |                                  |   |
|                                | 30                           | 01-000340        |                                  |   |
|                                | 40                           | 01-000360*       |                                  |   |
| 4.5                            | 15                           | 01-000382        | 3.5 – 4.5                        |   |
|                                | 20                           | 01-000331        |                                  |   |
|                                | 25                           | 01-000336        |                                  |   |
|                                | 30                           | 01-000341        |                                  |   |
|                                | 40                           | 01-000361*       |                                  |   |
| 5.0                            | 15                           | 01-000383        | 4.0 – 5.0                        |   |
|                                | 20                           | 01-000332        |                                  |   |
|                                | 25                           | 01-000337        |                                  |   |
|                                | 30                           | 01-000342        |                                  |   |
|                                | 40                           | 01-000362*       |                                  |   |
|                                | 50                           | 01-000363*       |                                  |   |
| 5.5                            | 15                           | 01-000384        | 4.5 – 5.5                        |   |
|                                | 20                           | 01-000333        |                                  |   |
|                                | 25                           | 01-000338        |                                  |   |
|                                | 30                           | 01-000343        |                                  |   |
|                                | 40                           | 01-000364*       |                                  |   |
|                                | 50                           | 01-000365*       |                                  |   |
| 6.0                            | 15                           | 01-000385        | 5.0 – 6.0                        |   |
|                                | 20                           | 01-000334        |                                  |   |
|                                | 25                           | 01-000339        |                                  |   |
|                                | 30                           | 01-000344        |                                  |   |
|                                | 40                           | 01-000366*       |                                  |   |
|                                | 50                           | 01-000367*       |                                  |   |

\* Indicated on package as „without Tip“ as the tip always stays inside the stent for the 40 mm and 50 mm length

\*\* Please contact your local Acandis® representative for information on compatible microcatheters

All changes or modifications, may they be technical or other, or changes in the availability of products are expressly reserved.

Distributed by:



**ACANDIS GmbH & Co. KG**  
Theodor-Fahrner-Str. 6  
75177 Pforzheim  
Germany



Tel: +49 7231 155 00 0  
Fax: +49 7231 155 00 129  
E-Mail: info@acandis.com  
[www.acandis.com](http://www.acandis.com)