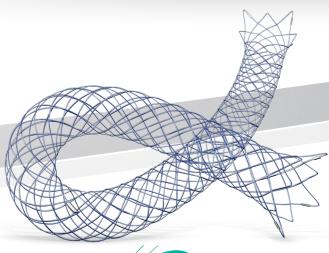


ACCERO® heal Stent





Antithrombogenic coating*

Brilliant visibility

Excellent opening behaviour and adaptability



ORDERING INFORMATION | ACCERO® heal

Labelled ACCERO® heal Dimensions (mm)	Reference Number	Stent Diameter (mm)	Stent Length (mm)	Recommended Vessel Diameter (mm)	Recommended (Required) Catheter for Delivery (Inch)
2.5 × 10	01-001800	2.5	10	1.5 – 2.5	
2.5 × 15	01-001801	2.5	15	1.5 – 2.5	
2.5 × 20	01-001802	2.5	20	1.5 – 2.5	
3.0 × 10	01-001805	3.0	10	2.0 – 3.0	
3.0 × 15	01-001806	3.0	15	2.0 – 3.0	
3.0 × 20	01-001807	3.0	20	2.0 – 3.0	
3.5 × 10	01-001810	3.5	10	2.5 – 3.5	NeuroSlider® 17 DLC (ID: 0.0165 – 0.017)
3.5 × 15	01-001811	3.5	15	2.5 – 3.5	(12. 0.0103 0.017)
3.5 × 20	01-001812	3.5	20	2.5 – 3.5	
3.5 × 25	01-001813	3.5	25	2.5 – 3.5	
4.0 × 15	01-001816	4.0	15	3.0 – 4.0	
4.0 × 20	01-001817	4.0	20	3.0 – 4.0	
4.0 × 25	01-001818	4.0	25	3.0 – 4.0	

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ACCERO®

Stent

Highly visible

Self-expanding braided stent with BlueXide® surface finishing – for the treatment of intracranial aneurysms.

The Acandis® proprietary corrosion protective BlueXide® surface finishing aims to optimise biocompatibility and facilitates stent delivery.

Adaptive

The ACCERO® Stent features an adaptive stent design.

Flared ends enable favourable wall apposition in straight and curved vessel segments.

Closed wire loops allow smooth delivery and atraumatic anchoring.

High radial resistive force ensures reliable coil retention.

Easy to use

The smooth surface ensures easy and save delivery, accurate placement, and favours excellent opening behaviour.

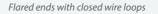
The ACCERO® Stent can be delivered through 0.0165" – 0.017" ID microcatheters and double lumen balloon catheters.

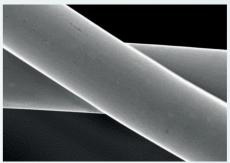
The stent is repositionable up to 95 % of its length.

Sizing Support

Acandis® offers a unique sizing support in preparation of cases with the ACCERO® Stent.

By the Acandis' 3D sizing simulation based on the Ankyras software, we assist physicians to choose the optimal stent dimension prior to treatment.





Smooth surface

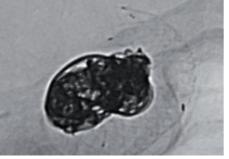


Acandis® sizing support

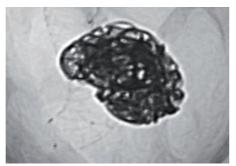
Treatment with ACCERO® Stent²



Coiling (jailing technique) with half deployed ACCERO® Stent



ACCERO® Stent fully deployed (lateral view)



ACCERO® Stent fully deployed (frontal view)

Radiopaque Marker Concept²



for additional control of stent position and opening behaviour

Proximal transport wire marker

indicating the "point of no return" up to which the stent can be repositioned securely



Radiopaque Nitinol composite wires

allow the visibility of the entire contour of the stent

One middle device marker

for accurate placement under the aneurysm neck

1 Nania, A. et al. (2020): Early experience treating intracranial aneurysms using Accero: a novel, fully visible, low profile braided stent with platinum–nitinol composite wire technology. Journal of NeuroIntervent Surgery, 2020; 0:1–5

Satisfactory

² Images are courtesy of Dr. Paul Stracke, Alfried Krupp Hospital, Essen-Rüttenscheid, Germany



ACCERO® heal Stent

Braided, self-expanding nitinol stent

- » HEAL Technology next generation antithrombogenic coating
- » Brilliant full length visibility due to nitinol composite wires with platinum core
- » Easy and accurate placement due to additional radiopaque stent markers
- » Excellent flexibility and wall apposition
- » Optimised flaring of the stent ends
- » Repositionable up to 90 % of its length
- » BlueXide® surface finishing for optimised haemocompatibility
- » CE mark approved for vessel diameters from 1.5 4.0 mm
- » Compatible with 0.0165" 0.017" ID microcatheters
- » 3D Sizing Support

Note:

The ACCERO® heal Stent is currently in Limited Market Release.

Please contact your Acandis® representative for product availability.

Magnetic Resonance Imaging (MRI)
Information



ACCLINO® heal Stent



Antithrombogenic coating*

High visibility and flexibility

Compatible with 0.0165" – 0.021" ID microcatheters



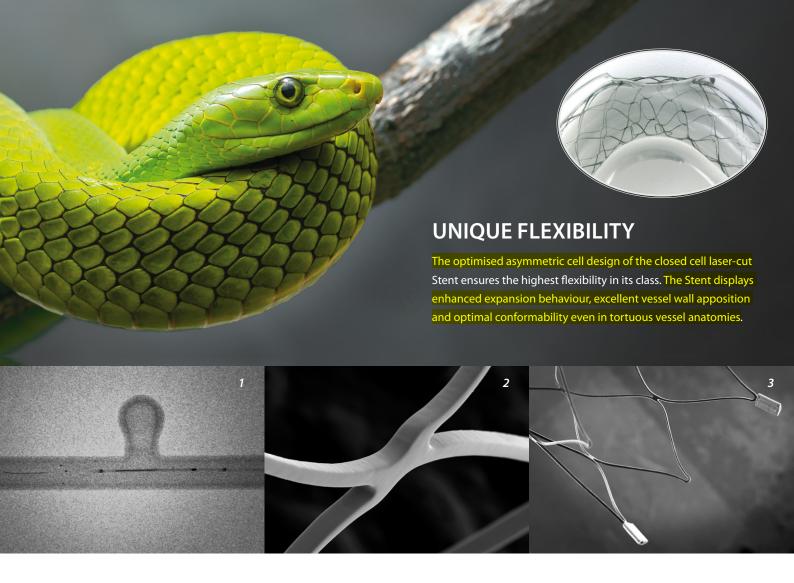
ORDERING INFORMATION | ACCLINO® heal

Labelled ACCLINO® heal Dimensions (mm)	Reference Number	Stent Diameter (mm)	Stent Length (mm)	Recommended Vessel Diameter (mm)	Recommended (Required) Catheters for Delivery (Inch)
3.5 × 15	01-003132	3.5	15	1.5 – 3.0	
3.5 × 20	01-003133	3.5	20	1.5 – 3.0	
3.5 × 25	01-003134	3.5	25	1.5 – 3.0	
3.5 × 30	01-003135	3.5	30	1.5 – 3.0	
3.5 × 35	01-003136	3.5	35	1.5 – 3.0	
4.5 × 15	01-003152	4.5	15	2.5 – 4.0	
4.5 × 20	01-003153	4.5	20	2.5 – 4.0	NeuroSlider® 17 NeuroSlider® 17 DLC
4.5 × 25	01-003154	4.5	25	2.5 – 4.0	(ID: 0.0165 – 0.017)
4.5 × 30	01-003155	4.5	30	2.5 – 4.0	
4.5 × 35	01-003156	4.5	35	2.5 – 4.0	
5.5 × 20	01-003173	5.5	20	3.5 – 5.0	
5.5 × 25	01-003174	5.5	25	3.5 – 5.0	
5.5 × 30	01-003175	5.5	30	3.5 – 5.0	
5.5 × 35	01-003176	5.5	35	3.5 – 5.0	
6.5 × 20	01-003193	6.5	20	4.0 - 6.0	
6.5 × 25	01-003194	6.5	25	4.0 - 6.0	NeuroSlider® 21
6.5 × 30	01-003195	6.5	30	4.0 - 6.0	NeuroSlider® 21 DLC (ID: 0.021)
6.5 × 35	01-003196	6.5	35	4.0 - 6.0	

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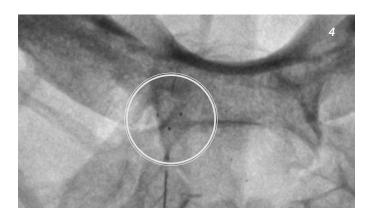


MORE TREATMENT OPTIONS

The new ACCLINO® flex plus Stent provides an increased range and is suitable for vessel diameters from 1.5 to 6.0 mm. For an easy handling all sizes from 3.0-5.5 mm are deliverable through microcatheters with 0.0165"-0.017" ID. This allows a sequential stent and coil placement without the changing of the microcatheter. The 6.5 mm diameter devices are deliverable through microcatheters with 0.021" ID.

NEW X-RAY MARKER

Visibility leads to maximum safety. The three flat Platinumlridium X-ray markers on each end of the ACCLINO® flex plus Stent and the two golden transport wire markers support a safe and precise placement under fluoroscopy.



Captions:

- 1 Improved visibility
- 2 SEM (scanning electron microscope) image of the surface
- 3 Three low profile Platinum-Iridium X-ray markers
- 4 Good visibility even behind solid bone structures



Antithrombogenic coating*

Class leading visibility

For vessel diameters from 1.5 – 8.0 mm

Compatible with 0.0165" – 0.039" ID (micro)catheters



ORDERING INFORMATION | DERIVO® 2heal®

Labelled DERIVO® 2heal® Dimensions (mm)	Reference Number	Device Diameter (mm)	Device Length (mm)	Recommended Vessel Diameter (mm)	Recommended (Required) Catheters for Delivery (Inch)
2.5 × 10	01-104001	2.5	10	1.5 – 2.5	
2.5 × 15	01-104002	2.5	15	1.5 – 2.5	
2.5 × 20	01-104003	2.5	20	1.5 – 2.5	
3.0 × 10	01-104005	3.0	10	2.0 – 3.0	
3.0 × 15	01-104006	3.0	15	2.0 – 3.0	
3.0 × 20	01-104007	3.0	20	2.0 – 3.0	NeuroSlider® 17 DLC (ID: 0.0165 – 0.017)
3.0 × 25	01-104008	3.0	25	2.0 – 3.0	(10. 0.0103 0.017)
3.5 × 10	01-104009	3.5	10	2.5 – 3.5	
3.5 × 15	01-104010	3.5	15	2.5 – 3.5	
3.5 × 20	01-104011	3.5	20	2.5 – 3.5	
3.5 × 25	01-104012	3.5	25	2.5 – 3.5	
3.5 × 30	01-104013	3.5	30	2.5 – 3.5	
3.5 × 40	01-104035	3.5	40	2.5 – 3.5	
4.0 × 15	01-104014	4.0	15	3.0 – 4.0	
4.0 × 20	01-104015	4.0	20	3.0 – 4.0	
4.0 × 25	01-104016	4.0	25	3.0 – 4.0	
4.0 × 30	01-104017	4.0	30	3.0 – 4.0	
4.0 × 40	01-104039	4.0	40	3.0 – 4.0	
4.5 × 15	01-104018	4.5	15	3.5 – 4.5	
4.5 × 20	01-104019	4.5	20	3.5 – 4.5	
4.5 × 25	01-104020	4.5	25	3.5 – 4.5	
4.5 × 30	01-104021	4.5	30	3.5 – 4.5	
4.5 × 40	01-104043	4.5	40	3.5 – 4.5	
5.0 × 15	01-104022	5.0	15	4.0 – 5.0	
5.0 × 20	01-104023	5.0	20	4.0 – 5.0	
5.0 × 25	01-104024	5.0	25	4.0 – 5.0	NeuroSlider® 27 (DLC)
5.0 × 30	01-104025	5.0	30	4.0 – 5.0	(ID: 0.027)
5.0×40	01-104047	5.0	40	4.0 – 5.0	
5.0 × 50	01-104048	5.0	50	4.0 – 5.0	
5.5 × 15	01-104026	5.5	15	4.5 – 5.5	
5.5 × 20	01-104027	5.5	20	4.5 – 5.5	
5.5 × 25	01-104028	5.5	25	4.5 – 5.5	
5.5 × 30	01-104029	5.5	30	4.5 – 5.5	
5.5 × 40	01-104052	5.5	40	4.5 – 5.5	
5.5 × 50	01-104053	5.5	50	4.5 – 5.5	
6.0 × 15	01-104030	6.0	15	5.0 – 6.0	
6.0 × 20	01-104031	6.0	20	5.0 – 6.0	
6.0 × 25	01-104032	6.0	25	5.0 - 6.0	
6.0×30	01-104033	6.0	30	5.0 - 6.0	
6.0×40	01-104057	6.0	40	5.0 - 6.0	
6.0 × 50	01-104058	6.0	50	5.0 – 6.0	
7.0 × 20	01-104059	7.0	20	6.0 – 7.0	
7.0 × 25	01-104060	7.0	25	6.0 – 7.0	
7.0 × 30	01-104061	7.0	30	6.0 – 7.0	
7.0 × 40	01-104068	7.0	40	6.0 – 7.0	
7.0 × 40	01-104069	7.0	50	6.0 – 7.0	Name Clinton and Disc
8.0 × 20	01-104069	8.0	20	7.0 – 8.0	NeuroSlider® 39 DLC (ID: 0.039)
8.0 × 25	01-104062	8.0	25	7.0 – 8.0	(15.0.009)
8.0 × 30	01-104064	8.0	30	7.0 – 8.0	
	01-104064	8.0	40		
8.0 × 40				7.0 – 8.0	
8.0 × 50	01-104074	8.0	50	7.0 – 8.0	

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Not available for sale in the United States.





DERIVO® 2

Embolisation Device

Proven technology combined with sophisticated design for best flow diversion effect



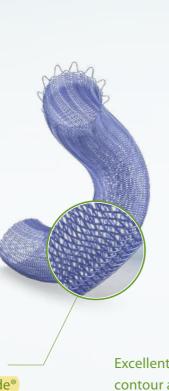
The Acandis® proprietary

corrosion protective BlueXide®

surface finishing aims to

optimise biocompatibility

and facilitates stent delivery.



Excellent visibility of device contour and shape thanks to Nitinol composite wires with higher Platinum proportion.*

Broad Portfolio

Broad variety of sizes allows the treatment of vessel diameters from 1.5 to 8.0 mm with 0.0165" – 0.039" ID microcatheters.

With device lengths from 10 mm up to 50 mm (depending on device diameter) and different transport wire configurations the DERIVO® 2 Embolisation Device is suitable for various anatomical situations.

Highest Adaptability

Atraumatic closed end together with an open end featuring a constant braiding angle, assure reliable and easy deployment as well as optimal wall apposition.

Optimal adjusted braiding design ensures homogeneous porosity for best flow diversion effect as well as good vessel wall adaptability, even in highly variable vessel diameters and in tortuous anatomies.

Utmost Accuracy

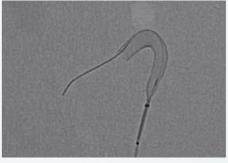
Acandis® offers an unique sizing support in preparation of cases with the DERIVO® 2 Embolisation Device.

By the Acandis' 3D sizing simulation based on the Ankyras software, we assist physicians in choosing the optimal device dimension prior to treatment.

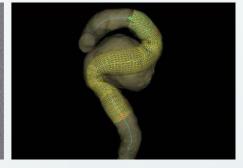
The DERIVO® 2 Embolisation Device is repositionable up to 90 % of its lengths for precise and secure device placement.







Excellent flexibility and vessel wall adaptability

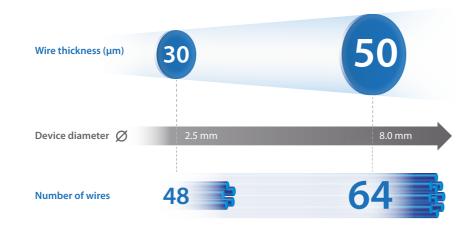


Simulation of DERIVO® 2 Embolisation Device (2.5 x 15 mm) with Ankyras

Sophisticated Design

Perfect match of design parameters (braiding angle, wire thickness and number of wires) for each device ensures...

- Perfect opening behaviour
- Optimal vessel wall adaptability
- Highest flexibility
- Balanced radial force
- Homogenous porosity (~ 70 %)
- Best flow diversion effect in treatment



Radiopaque Marker Concept



for perfect visualisation of the entire contour and shape of the device

Additional attachment point

Distal transport wire marker

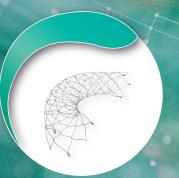
indicating the "point of no return" up to which the device can be repositioned securely

Proximal transport wire marker

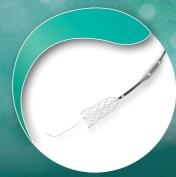


ACCERO® heal

DERIVO® 2heal® Embolisation Device



ACCLINO® heal Stent



CREDO® heal Stent



CARESTO® heal Stent



Next Generation of Antithrombogenic Coating

Antithrombogenic

Anti-inflammatory

Endothelialisation-promoting





An entirely new approach for rapid healing of vascular lesions after device implantation

The HEAL Technology imitates the last step of natural haemostasis by forming a thin and fully cured fibrin network on the implant surface.

In conjunction with covalently bound heparin to the fibrin network, the HEAL coating exhibits an unique combination of antithrombogenic, anti-inflammatory and endothelialisation-promoting properties.



Prof. Dr. Meltem Avci-Adali Research Director Thoracic and Cardiovascular Surgery, University Hospital Tübingen, Germany

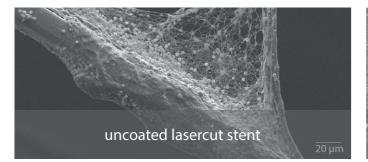
"In preclinical studies, HEAL coated devices have shown significant minimisation of thrombogenic and inflammatory responses. Together with the simultaneous potential to promote endothelialisation, HEAL technology represents a promising strategy to improve the treatment of patients with endovascular diseases, such as intracranial aneurysms."



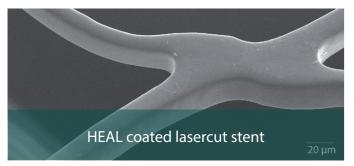
- reduced risk of device thrombosis

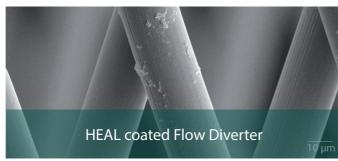
The fibrin-heparin coating passivates the surface and reduces platelet activation and coagulation cascade.

Deposits from the blood and thrombogenicity of vascular devices are significantly reduced. Thereby the coating is non-eluting and has no pharmacological effect.









SEM images of uncoated and HEAL coated devices after incubation in a Chandler Loop with human blood



- reduced risk of inflammatory reactions

Fibrin network

Heparin

Natural fibrin network before endothelialisation

SC5b-9 is a plasma protein from the complement system. *In vitro* investigations indicate a very low activation of the immune system with HEAL coated devices comparable to the control group (blood without device).

The complement system is significantly less activated by DERIVO® 2heal® compared to other commercially available coated flow diverters.



Endothelialisation-promoting

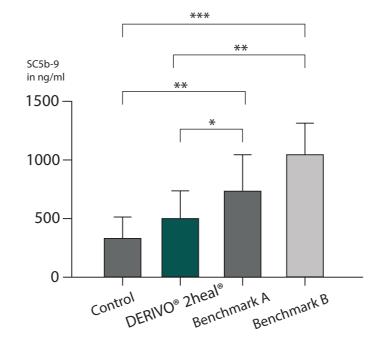
Atomic Force

Microscope image

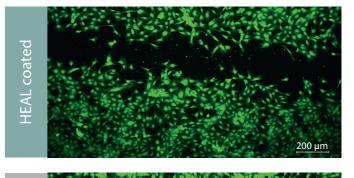
of HEAL coated glass

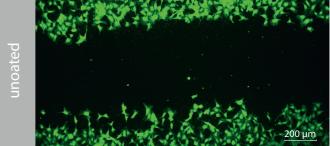
Wound healing assay using HUVECs* indicate that HEAL coated nitinol surfaces do not impede endothelial cell proliferation compared to an uncoated TiO2 surface. Moreover, the fibrin-heparin coating promotes endothelial cell covering.

*Human Umibical Vein Endothelial Cells.



In vitro investigation of SC5b-9





Wound healing assay using HUVECs



 $\label{eq:Antithrombogenic coating*} For vessel diameters from 2.0 - 4.5 \ mm$ $\label{eq:Approved for acute (LVO) and elective stenting}$ Balanced radial force especially for the treatment of intracranial stenoses



ORDERING INFORMATION | CREDO® heal with NeuroSpeed®

Labelled CREDO® heal Dimensions (mm)	Reference Number	Stent Diameter (mm)	Stent Length (mm)	Recommended Vessel Diameter (mm)	Required Catheters for Delivery
3.0 × 15	01-001930	3.0	15	2.0-2.5	
3.0 × 20	01-001931	3.0	20	2.0 – 2.5	
3.0 × 25	01-001932	3.0	25	2.0 – 2.5	
3.0 × 30	01-001933	3.0	30	2.0 – 2.5	
4.0 × 15	01-001940	4.0	15	2.5 – 3.5	
4.0 × 20	01-001941	4.0	20	2.5 – 3.5	NeuroSpeed®
4.0 × 25	01-001942	4.0	25	2.5 – 3.5	PTA Balloon Catheter
4.0 × 30	01-001943	4.0	30	2.5 – 3.5	
5.0 × 15	01-001950	5.0	15	3.5 – 4.5	
5.0 × 20	01-001951	5.0	20	3.5 – 4.5	
5.0 × 25	01-001952	5.0	25	3.5 – 4.5	
5.0 × 30	01-001953	5.0	30	3.5 – 4.5	

Labelled NeuroSpeed® Dimensions (mm)	Reference Number	Balloon Diameter (mm)	Balloon Working Length (mm)	ID (Inch)	OD dist. / prox. (French)	Usable Length (cm)
1.5 × 8	01-000605	1.5	8	0.0165	2.7 / 3.7	150
2.0 × 8	01-000600	2.0	8	0.0165	2.7 / 3.7	150
2.5 × 8	01-000601	2.5	8	0.0165	2.7 / 3.7	150
3.0 × 8	01-000602	3.0	8	0.0165	2.7 / 3.7	150
3.5 × 8	01-000603	3.5	8	0.0165	2.7 / 3.7	150
4.0 × 8	01-000604	4.0	8	0.0165	2.7 / 3.7	150

Inflation Pressure	NeuroSpeed® Diameter (mm)					
(bar)	1.5	2.0	2.5	3.0	3.5	4.0
2.0	1.21	1.72	2.09	2.42	3.06	3.26
4.0	1.37	1.84	2.33	2.78	3.25	3.72
6.0	1.50*	2.00*	2.50*	3.00*	3.50*	4.00*
8.0	1.67	2.16	2.65	3.22	3.69	4.23
10.0	1.85	2.27	2.75	3.38	3.83	4.37
12.0	2.02	2.39	2.87	3.54	3.97**	4.53**
14.0	2.20**	2.52**	2.98**	3.73**	-	-

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Not available for sale in the United States.





ORDERING INFORMATION | ACCERO® Rex

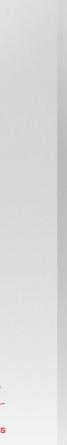
Labelled ACCERO® Rex Dimensions (mm)	Reference Number	Stent Diameter (mm)	Stent Length (mm)	Recommended Vessel Diameter (mm)	Recommended (Required) Catheter for Delivery (Inch)
7.0 × 30	01-000847	7.0	30	5.5 – 7.0	
7.0 × 40	01-000848	7.0	40	5.5 – 7.0	
7.0 × 50	01-000849	7.0	50	5.5 – 7.0	
7.0 × 60	01-000850	7.0	60	5.5 – 7.0	
8.0 × 30	01-000852	8.0	30	6.5 – 8.0	
8.0 × 40	01-000853	8.0	40	6.5 – 8.0	
8.0 × 50	01-000854	8.0	50	6.5 – 8.0	
8.0 × 60	01-000855	8.0	60	6.5 – 8.0	NeuroSlider® 39 DLC
9.0 × 30	01-000856	9.0	30	7.5 – 9.0	(ID: 0.039)
9.0 × 40	01-000857	9.0	40	7.5 – 9.0	
9.0 × 50	01-000858	9.0	50	7.5 – 9.0	
9.0 × 60	01-000859	9.0	60	7.5 – 9.0	
10.0 × 30	01-000860	10.0	30	8.5 – 10.0	
10.0 × 40	01-000861	10.0	40	8.5 – 10.0	
10.0 × 50	01-000862	10.0	50	8.5 – 10.0	
10.0 × 60	01-000863	10.0	60	8.5 – 10.0	

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Please contact your local Acandis® representative for product availability and information on compatible (micro)catheters.

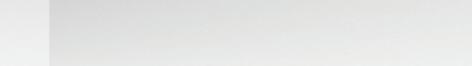
Not available for sale in the United States.







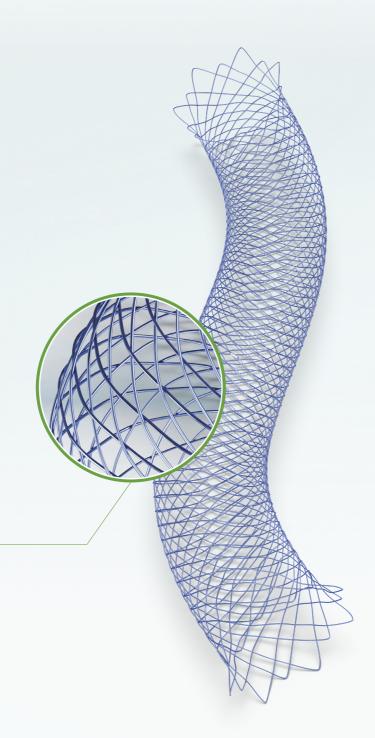
Brilliant visibility and adaptability For vessel diameters from 5.5 – 10.0 mm Deliverable through 0.039" ID catheters



ACCERO® Rex Stent

Self-expanding braided stent for the treatment of intracranial aneurysms offering new approaches for large vessels with up to 10 mm in diameter.

The Acandis® proprietary BlueXide® surface finishing aims to optimise biocompatibility and facilitates stent delivery.



Perfect adaptability

The ACCERO® Rex Stent features an adaptive stent design.

Flared ends enable favourable wall apposition in straight and curved vessel segments.

Closed wire loops allow smooth delivery and atraumatic anchoring.

Radial resistive force ensures reliable coil retention.

Excellent visibility

Thanks to nitinol composite wires with platinum core the contour and shape of the ACCERO® Rex Stent is perfectly visible leading to maximum control during procedure.

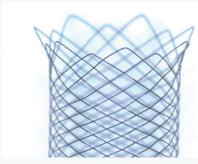
An additional device center marker indicates the middle of the stent for an easy and accurate placement under the aneurysm neck.

Sizing Support

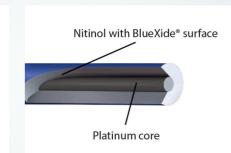
We offer our help in preparing cases in complex and challenging anatomies.

With a 3D sizing simulation, we assist physicians to choose the optimal stent dimension prior to treatment.

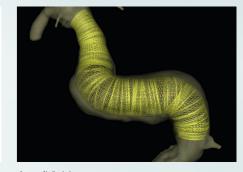
Additionally we offer training in patient specific models to simulate and train the procedure in advance of the intervention.



Flared ends with closed wire loops

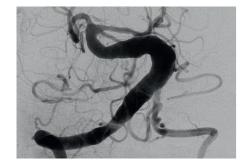


Nitinol composite wire with platinum core



Acandis® sizing support

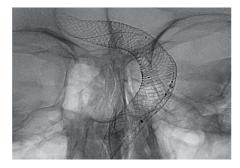
Treatment with ACCERO® Rex Stent¹



Fusiform vertebrobasilar aneurysm with a diameter up to 10 mm



First ACCERO® Rex Stent 10.0 x 60 mm partly deployed



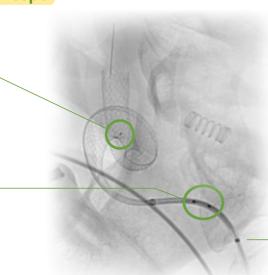
Second ACCERO® Rex Stent fully deployed (Telescoping) with excellent wall adaption

Radiopaque Marker Concept²



Point of no return

indicating the point up to which the stent can be repositioned securely



Proximal transport wire marker

1 Images are courtesy of Prof. Dr. René Chapot, Alfried Krupp Hospital, Essen-Rüttenscheid, Germany 2 Images are courtesy of Prof. Dr. André Kemmling, University Hospital Gießen & Marburg, Germany