PAGINA 0

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Axium™

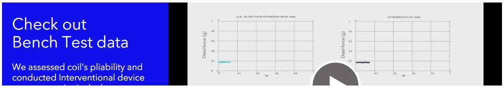
Detachable Coils

The Axium™ coils family offers an optimized packing volume and provides a stable frame and soft finish.

Its delivery is smooth thanks to the instant detacher, enabling less microcatheter kick-back[1], and a fast, reliable mechanical detachment[2].

Download brochure

Important Safety Information



Check out
Bench Test data

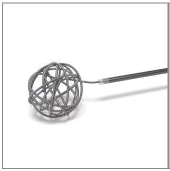
We assessed coil's pliability and conducted Interventional device

Explore the Axium™ Detachable Coils family

Axium™ Prime FC: stable & conformable framing coils

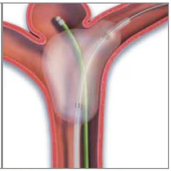
Axium™ Prime SS: soft filling coils (3D & helical)

Axium™ Prime ES: soft finishing coils (3D & helical)



Axium™ Micro FX: fibered coils (3D & helical)

Axium™ Bare: conformable & utility coils (3D & helical)



Assisted delivery of Axium™ coils

Axium™ family

99.7% PROVEN reliability of the detachment system

(in a study including 205 Axium™ coils*)

Better trackability through tortuous anatomy

Tapered pusher with Contour® technology at the distal segment of pusher enhances trackability through tortuous anatomy[3]

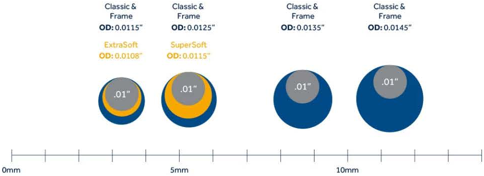
Minimal microcatheter kick-back

Ball & socket design allows for 360° axial rotation[4] which facilitates coil delivery with less microcatheter kick-back[5]

Progressive & Optimized Packing Volume

The entire Axium™ family features a progressive outer diameter matched to the implant size optimizes stability and volume throughout the entire coil line.

Progressive coil design: less coils, more volume



Axium™ Prime Frame

Axium™ Prime Frame (FC)

Axium™ Prime Frame are coils with a unique loop configuration, hybrid of open & closed loops.

Versatility to conform to different aneurysm morphologies with the flexible OMEGA open loops[6].

Stability enhanced with OMEGA closed-loop patterns for the first and last loops[7].

Consistent and dense neck coverage as the successive loops change directions[8].

OOP DELIVERY
NECK COVERAGE
OMEGA

Characteristics

Coil O.D. (in)	0.0115	0.0125	0.0135	0.0145
Diameter (mm)	3.0 - 3.5	4.0 - 6.0	7.0 - 10.0	12.0 - 25.0
Length (cm)	6 - 10	6.0 - 25.0	12.0 - 40.0	30.0 - 50.0
Vol. (mm^3)	1.18 - 5.9	0.59 - 5.9	4.02 - 13.4	4.02 - 13.4

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Axium™ Prime Super Soft and Extra Soft

Axium™ Prime Extra Soft and Super Soft are one of the softest coils on the market. This softness is achieved with a thinner filar and thinner stretch resistant stranders.

What are the key benefits of Axium™ Prime ES and SS coils?

- Conformability and random loops
- Optimal softness for filling and finishing

Characteristics

	ES-3D	ES-Helix	SS-3D	SS-Helix
Diameter (mm)	1 - 3.5	1 - 3	4 - 6	4 - 6
Length (cm)	2 - 10	1 - 10	6 - 20	6 - 20
Coil O.D. (in)	0.0108	0.0108	0.0115	0.0115
Vol. (mm^3)	1.18 - 5.9	0.59 - 5.9	4.02 - 13.4	4.02 - 13.4

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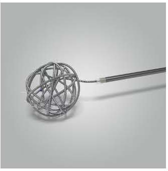
Axium™ MicroFX™

Axium™ MicroFX™ coils with LatticeFX™ technology have overlapped individual nylon or PGLA microfilaments between coil loops, forming an intra-aneurysmal surface area for stable scar tissue formation and high thrombogenicity.

These coils provide the acute performance of an Axium™ Bare coil with the added benefit of LatticeFX™ technology.

- Flow reduction across the neck[9]
- Increased thrombogenicity[9]
- 33% less flow through MicroFX™ coils vs. standard Axium™ coils[10]



For various situations

Axium™ MicroFX™ coils are particularly indicated for aneurysms that have a high likelihood of rupture or are already ruptured given their high thrombogenicity and filling capacity. They should also be considered for vessel take down and fistulae as the increased filling capacity will likely reduce the procedure time and cost.

Finally, they can assist a flow diversion procedure where a quick thrombus formation inside the aneurysm is needed.

Characteristics

	PGLA 3D	PGLA Helix	Nylon Helix
Coil O.D. (in)	0.0115 - 0.0145	0.0115 - 0.0135	0.0115 - 0.0125
Diameter (mm)	2 - 18	2 - 10	2 - 4
Length (cm)	2 - 40	1 - 30	1 - 10
Vol. (mm³)	1.34 - 42.61	0.67 - 27.7	0.67 - 7.92

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Axium™ Bare (QC)

Axium™ Bare coils pioneered the Axium™ family's benefits of high volumetric filling, progressive coil diameter as well as a highly reliable smooth and instant detachment system. The system offers the optimal balance with the softness of a "10" coil and the stability/volume of an "18" coil.

Since 2007, several product enhancements have been made to optimize the design of Axium™ Bare (QC) coils. Their unique combination of softness and stability is obtained by balancing the size of the primary wire and the outer diameter.

The 3D design has a large loop diameter to sphere diameter ratio and infinite, random break points.

For various situations

In sizes 1-6mm, QC coils have a larger OD than our Axium™ Prime line making it an ideal choice to frame and fill smaller a-morphic aneurysm where a robust coil is required and less softness is desired.

- Enhanced conformability and reduced compartmentalization
- Deflected into aneurysm spaces more effectively for better packing
- Reduced "tumbling"
- Facilitated repositioning
- Small first loop (~70% of nominal loop diameter) anchors coil in aneurysm

Characteristics

	3D	Helix
Coil O.D. (in)	0.0115 - 0.0145	0.0115 - 0.0145
Diameter (mm)	2 - 25	1.5 - 20
Length (cm)	2 - 50	1 - 50
Vol. (mm³)	1.34 - 53.27	0.67 - 53.27

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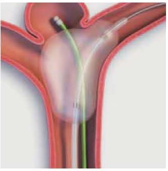
Delivering Axium™ Coils

Balloon-Assisted coiling

With our neuro-balloons, apply supple conformity to complex structures. Our neuro-balloons are ideal for distal access, and unique and irregular anatomies, such as bifurcation geometries. They provide stability in large and small vessels. Discover dependable coverage specifically designed to create stable occlusion across the challenging diameters encountered in large and small vessels.

Our HyperForm™ occlusion balloons are created with extra softness to conform to asymmetrical, irregular and complex vasculature geometries.

Our HyperGlide™ occlusion balloons are oblong compliant balloons designed for sidewall aneurysms and reliable occlusions.



Indications

The Occlusion Balloon Catheters are indicated for use in blood vessels of the peripheral and neuro vasculature where temporary occlusion is desired. These catheters offer a vessel selective technique of temporary vascular occlusion, which is useful in selectively stopping or controlling blood flow; the Occlusion Balloon Catheters may also be used in balloon-assisted embolization of intracranial aneurysms and treatment of vasospasm.

See the device manual for detailed information regarding the instructions for use, indications, contraindications, warnings, precautions, and potential adverse events.

IFU

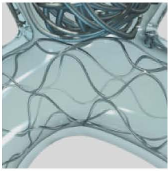
View full instructions for use

Hyper Balloon IFU (pdf)

Characteristics

Usable Length (cm): 150

	Hyperform™	HyperGlide™
Proximal Outer Diameter (F)	2.8	2.8
Distal Outer Diameter (F)	2.2 - 3.0	2.2
Balloon Diameter (mm)	3.0 - 7.0	3.0 - 5.0
Balloon Length (mm)	7.0 - 15.0	10.0 - 30.0
Tip Length (mm)	2.0	4.0



Stent-Assisted coiling

Solitaire™ AB device is a self-expanding stent with a unique design to bridge the neck of aneurysms that can be completely retrieved, even when fully deployed for unmatched procedural control.

The Solitaire™ AB neurovascular remodeling device, with the unique Parametric™ technology, is the adequate solution for assisting coiling procedures by acting as a physical barrier in wide-neck and blister aneurysms to trap coils and prevent coil herniation into the parent artery.

Indications

The Solitaire™ AB Neurovascular Remodeling Device is designed for use as an adjunctive device in the treatment of intracranial aneurysms.

See the device manual for detailed information regarding the instructions for use, indications, contraindications, warnings, precautions, and potential adverse events.

Available CFNs

CFN	Vessel Diameter Range (mm)	Stent Diameter (mm)	Min. Microcatheter Inner Diameter (in)	Usable Length (mm)	Distal Markers	Proximal Markers
SAB-3-20	2.0 - 3.0	3.0	0.021	20	3	1
SAB-3-30	2.2 - 3.0	3.0	0.021	30	3	1
SAB-4-15	3.0 - 4.0	4	0.021	15	3	1
SAB-4-20	3.0 - 4.0	4	0.021	20	3	1
SAB-4-30	3.0 - 4.0	4	0.021	30	3	1
SAB-4-40	3.0 - 4.0	4	0.021	40	3	1
SAB-5-20	3.0 - 4.0	4	0.027	20	4	1
SAB-5-30	3.0 - 4.0	4	0.027	30	4	1
SAB-5-40	3.0 - 4.0	4	0.027	40	4	1
SAB-6-20	3.0 - 4.0	4	0.027	20	4	1
SAB-6-30	3.0 - 4.0	4	0.027	30	4	1

The Solitaire™ AB detachment system is a battery operated device working with detachment cables designed to initiate and control the detachment of the Solitaire™ AB neurovascular remodeling device.

CFN	Product
NDS-2X	Solitaire™ Detachment Box
CSS-2.75-1X	Cable Set, Length: 2.75M, Quantity 1
CSS-2.75-5X	Cable Set, Length: 2.75M, Quantity 5

Specifications

Axium™ and Axium™ Prime detachable coil systems are indicated for the endovascular embolization of intracranial aneurysms and other neurovascular abnormalities, such as arteriovenous malformations and arteriovenous fistulae.

Axium™ and Axium™ MicroFX™ detachable coil systems are indicated for the endovascular embolization of intracranial aneurysms and other neurovascular abnormalities, such as arteriovenous malformations and arteriovenous fistulae.

IFU

View full instructions for use for Axium™ Prime Framing Coils, Super Soft and Extra Soft.

Axium™ Prime IFU (PDF)

IFU

View full instructions for use for Axium™ Bare and Axium™ MicroFX™.

Axium™ QC & MicroFX™ IFU (PDF)

Sizing chart

View full list of available CFNs.

Axium™ Wall Chart (PDF)

Related pages

- Phenom™ Catheters
- Aneurysm Treatment Products
- Access & Delivery Products for Neurovascular

Any questions?

Do you need support for procedures? Or information on our products and solutions?

Our team is happy to help answer any questions you may have.

Contact us

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Go to Neurovascular

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[1] Data on file. TR-NV12481A /

[2] Data on file TR-07-053A & TR-09-218A

[3] TR-NV12481A; TR10-126A

[4] TR-NV12481A; FD3117A; FD3118A. Based on bench test comparing axial rotation of Axium™ Prime coil versus Target® coils.1 unit of each coil were tested.
Bench testing is not indicative of clinical performance

[5] Data on file. TR-NV12481A /

[6] Data on file Top Level Drawing 92566A. Ref: MP1936B & RE00046057 Data on file. TR-NV13289A & Addendum

[7] Ref: Data on file Top Level Drawing & RE00046057

[8] Data on file Top Level Drawing 92566A. MP1936B & RE00046057

[9] Fargen KM, Blackburn S, Carpenter JS, et al. J NeuroIntervent Surg Published Online First: doi:10.1136/neurintsurg-2013-010887

[10] Girdhar G, et al, In-vitro thrombogenicity assessment of polymer filament modified and native platinumembolic coils, J Neurol Sci (2014)

* RE00032057; TR-NV13164; TR09-218A. In a study including 205 Axium™ coils, 100% detached on the first attempt. The initial detachment reliability is at least 98.5% reliable with 95% confidence

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