

TRANSFORMING  
TOTAL  
TREATMENT

NEUROVASCULAR



## Product Catalogue

Neurovascular 2020 Edition

**Medtronic**  
Further, Together



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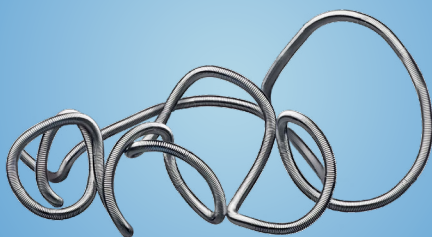
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# HEMORRHAGIC STROKE SOLUTIONS

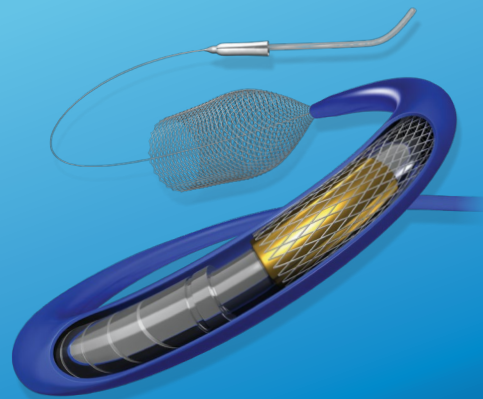
ONYX™



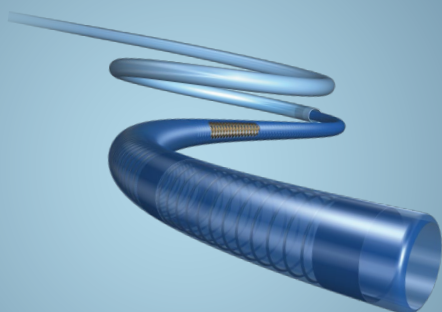
AXIUM™



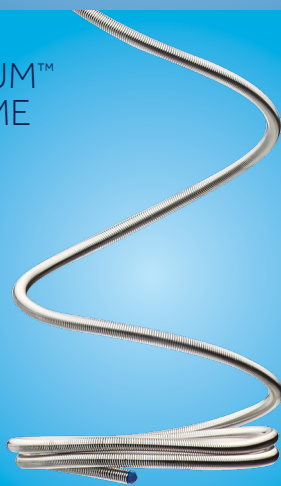
PIPELINE™ FLEX



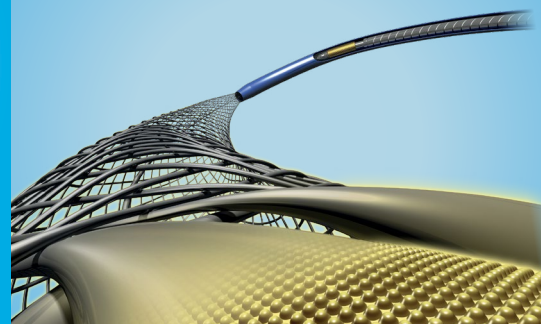
PHENOM™ MICRO  
CATHETER



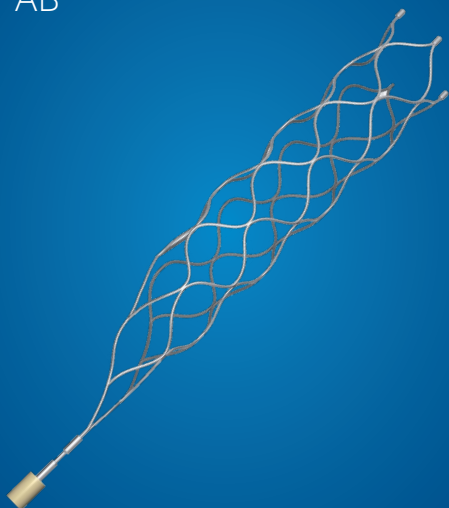
AXIUM™  
PRIME



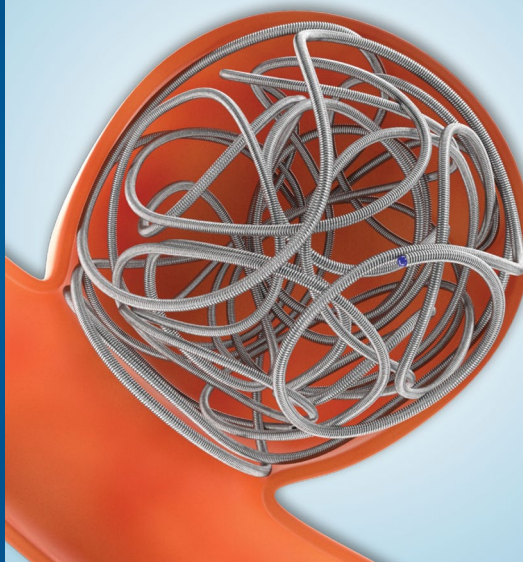
PIPELINE™ FLEX  
WITH SHIELD  
TECHNOLOGY™



SOLITAIRE™  
AB



AXIUM™ FC



AXIUM™ ES



# ONYX™ LIQUID EMBOLIC SYSTEM



## Onyx™ Liquid Embolic System

Onyx™ liquid embolic system is an EVOH co-polymer designed to provide full penetration and complete packing for the embolization of vascular lesions.

PRODUCT CATALOGUE NO.	ONYX™ FORMULATION
105-7000-060	Onyx™ 18
105-7000-065	Onyx™ 20
105-7000-080	Onyx™ 34

INDICATIONS: Embolization of lesions in the peripheral and neurovasculature, including arteriovenous malformations and hypervascular tumors.

## Onyx™ Liquid Embolic System Mixer

The Onyx™ liquid embolic system mixer (shaker) is packaged one unit per box. It contains four spaces for preparation of Onyx™ liquid embolic system vials simultaneously.

PRODUCT CATALOGUE NO.	VOLTAGE
103-1205-002	240

Onyx™ liquid embolic system mixer is an accessory to the Onyx™ liquid embolic system that allows proper suspension of the Onyx™ liquid embolic system tantalum for better visualisation prior to use.

## Onyx™ Liquid Embolic System Syringe Catheter Interface Adapter

The micro therapeutics' Onyx™ liquid embolic system syringe - catheter interface adapter is intended for use as an accessory to the Onyx™ liquid embolic system and the Marathon™/Apollo™ during Onyx™ liquid embolic system injection for the embolization of brain arteriovenous malformations.

PRODUCT CATALOGUE NO.
103-1207

INDICATIONS: The proximal end of the adapter incorporates a standard ISO, female luer design to facilitate connection to the syringe. The distal end is designed specifically to fit the hub of Marathon™ and Apollo™ micro catheter 1.5F.

# AXIUM™ DETACHABLE COIL SYSTEMS



The Axiium™ detachable coil system provides an elegant solution that addresses challenges by optimising coil delivery, deployment, and detachment. Its progressive coil diameter system vastly refines your coil selection process.

## Axiium™ 3D

PRODUCT CATALOGUE NO.	DIA. (MM)	LENGTH (CM)	COIL O.D. (IN)	O.D. (MM)	VOL. (MM)
QC-2-2-3D	2	2	0.0115	0.2921	1.34
QC-2-4-3D	2	4	0.0115	0.2921	2.68
QC-2-6-3D	2	6	0.0115	0.2921	4.02
QC-2.5-2-3D	2.5	2	0.0115	0.2921	1.34
QC-2.5-4-3D	2.5	4	0.0115	0.2921	2.68
QC-2.5-6-3D	2.5	6	0.0115	0.2921	4.02
QC-2.5-8-3D	2.5	8	0.0115	0.2921	5.36
QC-3-4-3D	3	4	0.0115	0.2921	2.68
QC-3.5-6-3D	3.5	6	0.0115	0.2921	4.02
QC-3.5-12-3D	3.5	12	0.0115	0.2921	8.04
QC-3.5-15-3D	3.5	15	0.0115	0.2921	10.05
QC-3-6-3D	3	6	0.0115	0.2921	4.02
QC-3-8-3D	3	8	0.0115	0.2921	5.36
QC-3-10-3D	3	10	0.0115	0.2921	6.7
QC-4-6-3D	4	6	0.0125	0.3175	4.75
QC-4-8-3D	4	8	0.0125	0.3175	6.33
QC-4-10-3D	4	10	0.0125	0.3175	7.92
QC-4-12-3D	4	12	0.0125	0.3175	9.5
QC-5-8-3D	5	8	0.0125	0.3175	6.33
QC-5-10-3D	5	10	0.0125	0.3175	7.92
QC-5-15-3D	5	15	0.0125	0.3175	11.88
QC-6-10-3D	6	10	0.0125	0.3175	7.92

PRODUCT CATALOGUE NO.	DIA. (MM)	LENGTH (CM)	COIL O.D. (IN)	O.D. (MM)	VOL. (MM)
QC-6-15-3D	6	15	0.0125	0.3175	11.88
QC-6-20-3D	6	20	0.0125	0.3175	15.83
QC-7-15-3D	7	15	0.0135	0.3429	13.85
QC-7-20-3D	7	20	0.0135	0.3429	18.47
QC-7-30-3D	7	30	0.0135	0.3429	27.7
QC-8-15-3D	8	15	0.0135	0.3429	13.85
QC-8-20-3D	8	20	0.0135	0.3429	18.47
QC-8-30-3D	8	30	0.0135	0.3429	27.7
QC-9-20-3D	9	20	0.0135	0.3429	18.47
QC-9-30-3D	9	30	0.0135	0.3429	27.7
QC-10-20-3D	10	20	0.0135	0.3429	18.47
QC-10-30-3D	10	30	0.0135	0.3429	27.7
QC-12-30-3D	12	30	0.0145	0.3683	31.96
QC-12-40-3D	12	40	0.0145	0.3683	42.61
QC-14-30-3D	14	30	0.0145	0.3683	31.96
QC-14-40-3D	14	40	0.0145	0.3683	42.61
QC-16-40-3D	16	40	0.0145	0.3683	42.61
QC-18-40-3D	18	40	0.0145	0.3683	42.61
QC-20-50-3D	20	50	0.0145	0.3683	53.27
QC-22-50-3D	22	50	0.0145	0.3683	53.27
QC-25-50-3D	25	50	0.0145	0.3683	53.27

## Axiium™ Helix

PRODUCT CATALOGUE NO.	DIA. (MM)	LENGTH (CM)	COIL O.D. (IN)	O.D. (MM)	VOL. (MM)
QC-1.5-1-HELIX	1.5	1	0.0115	0.2921	0.67
QC-1.5-2-HELIX	1.5	2	0.0115	0.2921	1.34
QC-1.5-3-HELIX	1.5	3	0.0115	0.2921	2.01
QC-1.5-4-HELIX	1.5	4	0.0115	0.2921	2.68
QC-2-1-HELIX	2	1	0.0115	0.2921	0.67
QC-2-2-HELIX	2	2	0.0115	0.2921	1.34
QC-2-3-HELIX	2	3	0.0115	0.2921	2.01
QC-2-4-HELIX	2	4	0.0115	0.2921	2.68
QC-2-6-HELIX	2	6	0.0115	0.2921	4.02
QC-2-8-HELIX	2	8	0.0115	0.2921	5.36
QC-2.5-2-HELIX	2.5	2	0.0115	0.2921	1.34
QC-2.5-4-HELIX	2.5	4	0.0115	0.2921	2.68
QC-2.5-6-HELIX	2.5	6	0.0115	0.2921	4.02
QC-2.5-8-HELIX	2.5	8	0.0115	0.2921	5.36
QC-3-4-HELIX	3	4	0.0115	0.2921	2.68
QC-3-6-HELIX	3	6	0.0115	0.2921	4.02
QC-3-8-HELIX	3	8	0.0115	0.2921	5.36
QC-4-8-HELIX	4	8	0.0125	0.3175	6.33
QC-4-10-HELIX	4	10	0.0125	0.3175	7.92
QC-4-12-HELIX	4	12	0.0125	0.3175	9.5

PRODUCT CATALOGUE NO.	DIA. (MM)	LENGTH (CM)	COIL O.D. (IN)	O.D. (MM)	VOL. (MM)
QC-5-15-HELIX	5	15	0.0125	0.3175	11.88
QC-5-20-HELIX	5	20	0.0125	0.3175	15.83
QC-6-20-HELIX	6	20	0.0125	0.3175	15.83
QC-7-20-HELIX	7	20	0.0135	0.3429	18.47
QC-7-30-HELIX	7	30	0.0135	0.3429	27.7
QC-8-20-HELIX	8	20	0.0135	0.3429	18.47
QC-8-30-HELIX	8	30	0.0135	0.3429	27.7
QC-9-20-HELIX	9	20	0.0135	0.3429	18.47
QC-9-30-HELIX	9	30	0.0135	0.3429	27.7
QC-10-20-HELIX	10	20	0.0135	0.3429	18.47
QC-10-30-HELIX	10	30	0.0135	0.3429	27.7
QC-12-30-HELIX	12	30	0.0145	0.3683	31.96
QC-12-40-HELIX	12	40	0.0145	0.3683	42.61
QC-14-30-HELIX	14	30	0.0145	0.3683	31.96
QC-14-40-HELIX	14	40	0.0145	0.3683	42.61
QC-16-30-HELIX	16	30	0.0145	0.3683	31.96
QC-16-40-HELIX	16	40	0.0145	0.3683	42.61
QC-18-40-HELIX	18	40	0.0145	0.3683	42.61
QC-20-40-HELIX	20	40	0.0145	0.3683	42.61
QC-20-50-HELIX	20	50	0.0145	0.3683	53.27

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

# AXIUM™ PRIME DETACHABLE COILS



The AxiuM™ Prime detachable coil system provides balanced softness through the progressive coil diameter concept. AxiuM™ Prime soft and extra soft coils are optimal for small and amorphic aneurysms as well as for filling small spaces during the coiling procedure.

## AxiuM™ Prime Super Soft 3D

PRODUCT CATALOGUE NO.	DIA. (MM)	LENGTH (CM)	COIL O.D. (IN)	O.D. (MM)	VOL. (MM)
APB-4-6-3D-SS	4	6	0.0115	0.2921	4.02
APB-4-8-3D-SS	4	8	0.0115	0.2921	5.36
APB-4-10-3D-SS	4	10	0.0115	0.2921	6.7
APB-4-12-3D-SS	4	12	0.0115	0.2921	8.04
APB-5-8-3D-SS	5	8	0.0115	0.2921	5.36
APB-5-10-3D-SS	5	10	0.0115	0.2921	6.7
APB-5-15-3D-SS	5	15	0.0115	0.2921	10.05
APB-6-10-3D-SS	6	10	0.0115	0.2921	6.7
APB-6-15-3D-SS	6	15	0.0115	0.2921	10.05
APB-6-20-3D-SS	6	20	0.0115	0.2921	13.4

## AxiuM™ Prime Super Soft Helix

PRODUCT CATALOGUE NO.	DIA. (MM)	LENGTH (CM)	COIL O.D. (IN)	O.D. (MM)	VOL. (MM)
APB-4-6-HX-SS	4	6	0.0115	0.2921	4.02
APB-4-8-HX-SS	4	8	0.0115	0.2921	5.36
APB-4-10-HX-SS	4	10	0.0115	0.2921	6.7
APB-4-12-HX-SS	4	12	0.0115	0.2921	8.04
APB-5-10-HX-SS	5	10	0.0115	0.2921	6.7
APB-5-15-HX-SS	5	15	0.0115	0.2921	10.05
APB-5-20-HX-SS	5	20	0.0115	0.2921	13.4
APB-6-12-HX-SS	6	12	0.0115	0.2921	8.04
APB-6-20-HX-SS	6	20	0.0115	0.2921	13.4

## AxiuM™ Prime Extra Soft 3D

PRODUCT CATALOGUE NO.	DIA. (MM)	LENGTH (CM)	COIL O.D. (IN)	O.D. (MM)	VOL. (MM)
APB-1-2-3D-ES	1	2	0.0108	0.2743	1.34
APB-1-3-3D-ES	1	3	0.0108	0.2743	2.01
APB-1-4-3D-ES	1	4	0.0108	0.2743	2.68
APB-1.5-2-3D-ES	1.5	2	0.0108	0.2743	1.34
APB-1.5-3-3D-ES	1.5	3	0.0108	0.2743	2.01
APB-1.5-4-3D-ES	1.5	4	0.0108	0.2743	2.68
APB-2-2-3D-ES	2	2	0.0108	0.2743	1.34
APB-2-3-3D-ES	2	3	0.0108	0.2743	2.01
APB-2-4-3D-ES	2	4	0.0108	0.2743	2.68
APB-2.5-4-3D-ES	2.5	4	0.0108	0.2743	2.68
APB-2.5-6-3D-ES	2.5	6	0.0108	0.2743	4.02
APB-3-4-3D-ES	3	4	0.0108	0.2743	2.68
APB-3-6-3D-ES	3	6	0.0108	0.2743	4.02
APB-3-8-3D-ES	3	8	0.0108	0.2743	5.36
APB-3.5-6-3D-ES	3.5	6	0.0108	0.2743	4.02
APB-3.5-8-3D-ES	3.5	8	0.0108	0.2743	5.36
APB-3.5-10-3D-ES	3.5	10	0.0108	0.2743	6.7

INDICATIONS: 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™ Prime Extra Soft Helix

PRODUCT CATALOGUE NO.	DIA. (MM)	LENGTH (CM)	COIL O.D. (IN)	O.D. (MM)	VOL. (MM)
APB-1-1-HX-ES	1	1	0.0108	0.2743	0.67
APB-1-2-HX-ES	1	2	0.0108	0.2743	1.34
APB-1-3-HX-ES	1	3	0.0108	0.2743	2.01
APB-1.5-1-HX-ES	1.5	1	0.0108	0.2743	0.67
APB-1.5-2-HX-ES	1.5	2	0.0108	0.2743	1.34
APB-1.5-3-HX-ES	1.5	3	0.0108	0.2743	2.01
APB-1.5-4-HX-ES	1.5	4	0.0108	0.2743	2.68
APB-2-1-HX-ES	2	1	0.0108	0.2743	0.67
APB-2-2-HX-ES	2	2	0.0108	0.2743	1.34
APB-2-3-HX-ES	2	3	0.0108	0.2743	2.01
APB-2-4-HX-ES	2	4	0.0108	0.2743	2.68
APB-2-6-HX-ES	2	6	0.0108	0.2743	4.02
APB-2-8-HX-ES	2	8	0.0108	0.2743	5.36
APB-2.5-3-HX-ES	2.5	3	0.0108	0.2743	2.01
APB-2.5-4-HX-ES	2.5	4	0.0108	0.2743	2.68
APB-2.5-6-HX-ES	2.5	6	0.0108	0.2743	4.02
APB-2.5-8-HX-ES	2.5	8	0.0108	0.2743	5.36
APB-3-4-HX-ES	3	4	0.0108	0.2743	2.68
APB-3-6-HX-ES	3	6	0.0108	0.2743	4.02
APB-3-8-HX-ES	3	8	0.0108	0.2743	5.36
APB-3-10-HX-ES	3	10	0.0108	0.2743	6.7

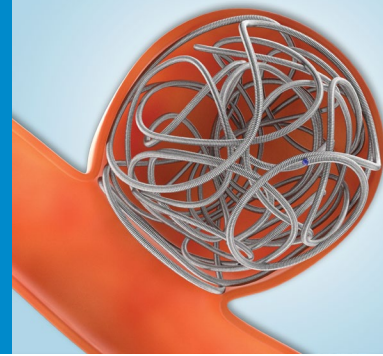
## I.D. Instant Detacher

One detacher required per procedure.

PRODUCT CATALOGUE NO.	NUMBER BY BOX
ID-1-5	5

INDICATIONS: The I.D instant detacher is intended for use with all versions of the AxiuM™ detachable coil systems: AxiuM™, AxiuM™ Prime and AxiuM™ MicroFX™.

# AXIUM™ PRIME DETACHABLE FRAMING COILS



## Axium™ Prime Frame 3D

PRODUCT CATALOGUE NO.	DIA. (MM)	LENGTH (CM)	O.D. (MM)	VOL. (MM)
FC-3-6-3D	3	6	0.0115 (0.29mm)	4.02
FC-3-8-3D	3	8	0.0115 (0.29mm)	5.36
FC-3-10-3D	3	10	0.0115 (0.29mm)	6.70
FC-3.5-6-3D	3.5	6	0.0115 (0.29mm)	4.02
FC-3.5-8-3D	3.5	8	0.0115 (0.29mm)	5.36
FC-3.5-10-3D	3.5	10	0.0115 (0.29mm)	6.70
FC-4-6-3D	4	6	0.0125 (0.32mm)	4.75
FC-4-8-3D	4	8	0.0125 (0.32mm)	6.33
FC-4-10-3D	4	10	0.0125 (0.32mm)	7.92
FC-4-12-3D	4	12	0.0125 (0.32mm)	9.50
FC-4-15-3D	4	15	0.0125 (0.32mm)	11.88
FC-5-8-3D	5	8	0.0125 (0.32mm)	6.33
FC-5-10-3D	5	10	0.0125 (0.32mm)	7.92
FC-5-15-3D	5	15	0.0125 (0.32mm)	11.88
FC-5-20-3D	5	20	0.0125 (0.32mm)	15.83
FC-6-10-3D	6	10	0.0125 (0.32mm)	7.92
FC-6-15-3D	6	15	0.0125 (0.32mm)	11.88
FC-6-20-3D	6	20	0.0125 (0.32mm)	15.83
FC-6-25-3D	6	25	0.0125 (0.32mm)	19.79
FC-7-12-3D	7	12	0.0135 (0.34mm)	11.08
FC-7-15-3D	7	15	0.0135 (0.34mm)	13.85
FC-7-20-3D	7	20	0.0135 (0.34mm)	18.47
FC-7-30-3D	7	30	0.0135 (0.34mm)	27.70
FC-8-15-3D	8	15	0.0135 (0.34mm)	13.85
FC-8-20-3D	8	20	0.0135 (0.34mm)	18.47
FC-8-30-3D	8	30	0.0135 (0.34mm)	27.70
FC-9-20-3D	9	20	0.0135 (0.34mm)	18.47
FC-9-30-3D	9	30	0.0135 (0.34mm)	27.70
FC-10-20-3D	10	20	0.0135 (0.34mm)	18.47
FC-10-30-3D	10	30	0.0135 (0.34mm)	27.70
FC-10-40-3D	10	40	0.0135 (0.34mm)	36.94
FC-12-30-3D	12	30	0.0145 (0.37mm)	31.96
FC-12-40-3D	12	40	0.0145 (0.37mm)	42.61
FC-12-50-3D	12	50	0.0145 (0.37mm)	53.27
FC-14-30-3D	14	30	0.0145 (0.37mm)	31.96
FC-14-40-3D	14	40	0.0145 (0.37mm)	42.61
FC-14-50-3D	14	50	0.0145 (0.37mm)	53.27
FC-16-40-3D	16	40	0.0145 (0.37mm)	42.61
FC-16-50-3D	16	50	0.0145 (0.37mm)	53.27
FC-18-40-3D	18	40	0.0145 (0.37mm)	42.61
FC-18-50-3D	18	50	0.0145 (0.37mm)	53.27
FC-20-50-3D	20	50	0.0145 (0.37mm)	53.27
FC-22-50-3D	22	50	0.0145 (0.37mm)	53.27
FC-25-50-3D	25	50	0.0145 (0.37mm)	53.27

**INDICATIONS:** The Axium™ and Axium™ Prime detachable coils are not intended for all patients and may not be the appropriate treatment for all clinical scenarios. See Instructions for Use for a complete list of warnings, precautions, and contraindications. The Axium™ Prime detachable coil system is indicated for the endovascular embolization of intracranial aneurysms and other neurovascular abnormalities, such as arteriovenous malformations and arteriovenous fistulae. The Axium™ Prime detachable coils are also indicated for arterial and venous embolizations in the peripheral vasculature.

# AXIUM™ MICROFX™ DETACHABLE COIL SYSTEMS



The Axiium™ detachable coil system utilizes an enlaced microfilament technology called LatticeFX™ and provides an ideal balance of softness, stability and volume through the progressive coil diameter and a single complete coil line.

## Axiium™ MicroFX™ PGLA 3D

PRODUCT CATALOGUE NO.	DIA. (MM)	LENGTH (CM)	COIL O.D. (IN)	O.D. (MM)	VOL. (MM)
PC-2-2-3D	2	2	0.0115	0.314159	1.34
PC-2-4-3D	2	4	0.0115	0.314159	2.68
PC-2-6-3D	2	6	0.0115	0.314159	4.02
PC-3-4-3D	3	4	0.0115	0.314159	2.68
PC-3-6-3D	3	6	0.0115	0.314159	4.02
PC-3-8-3D	3	8	0.0115	0.314159	5.36
PC-4-6-3D	4	6	0.0125	0.314159	4.75
PC-4-8-3D	4	8	0.0125	0.314159	6.33
PC-4-10-3D	4	10	0.0125	0.314159	7.92
PC-4-12-3D	4	12	0.0125	0.314159	9.5
PC-5-8-3D	5	8	0.0125	0.314159	6.33
PC-5-10-3D	5	10	0.0125	0.314159	7.92
PC-5-15-3D	5	15	0.0125	0.314159	11.88
PC-6-10-3D	6	10	0.0125	0.314159	7.92
PC-6-15-3D	6	15	0.0125	0.314159	11.88
PC-6-20-3D	6	20	0.0125	0.314159	15.83

PRODUCT CATALOGUE NO.	DIA. (MM)	LENGTH (CM)	COIL O.D. (IN)	O.D. (MM)	VOL. (MM)
PC-7-15-3D	7	15	0.0135	0.314159	13.85
PC-7-20-3D	7	20	0.0135	0.314159	18.47
PC-7-30-3D	7	30	0.0135	0.314159	27.7
PC-8-15-3D	8	15	0.0135	0.314159	13.85
PC-8-20-3D	8	20	0.0135	0.314159	18.47
PC-8-30-3D	8	30	0.0135	0.314159	27.7
PC-9-20-3D	9	20	0.0135	0.314159	18.47
PC-9-30-3D	9	30	0.0135	0.314159	27.7
PC-10-20-3D	10	20	0.0135	0.314159	18.47
PC-10-30-3D	10	30	0.0135	0.314159	27.7
PC-12-30-3D	12	30	0.0145	0.314159	31.96
PC-12-40-3D	12	40	0.0145	0.314159	42.61
PC-14-30-3D	14	30	0.0145	0.314159	31.96
PC-14-40-3D	14	40	0.0145	0.314159	42.61
PC-16-40-3D	16	40	0.0145	0.314159	42.61
PC-18-40-3D	18	40	0.0145	0.314159	42.61

## Axiium™ MicroFX™ PGLA Helix

PRODUCT CATALOGUE NO.	DIA. (MM)	LENGTH (CM)	COIL O.D. (IN)	O.D. (MM)	VOL. (MM)
PC-2-1-HELIX	2	1	0.0115	0.314159	0.67
PC-2-2-HELIX	2	2	0.0115	0.314159	1.34
PC-2-3-HELIX	2	3	0.0115	0.314159	2.01
PC-2-4-HELIX	2	4	0.0115	0.314159	2.68
PC-2-6-HELIX	2	6	0.0115	0.314159	4.02
PC-2-8-HELIX	2	8	0.0115	0.314159	5.36
PC-3-4-HELIX	3	4	0.0115	0.314159	2.68
PC-3-6-HELIX	3	6	0.0115	0.314159	4.02
PC-3-8-HELIX	3	8	0.0115	0.314159	5.36
PC-4-8-HELIX	4	8	0.0125	0.314159	6.33
PC-4-10-HELIX	4	10	0.0125	0.314159	7.92
PC-4-12-HELIX	4	12	0.0125	0.314159	9.5

PRODUCT CATALOGUE NO.	DIA. (MM)	LENGTH (CM)	COIL O.D. (IN)	O.D. (MM)	VOL. (MM)
PC-5-15-HELIX	5	15	0.0125	0.314159	11.88
PC-5-20-HELIX	5	20	0.0125	0.314159	15.83
PC-6-20-HELIX	6	20	0.0125	0.314159	15.83
PC-7-20-HELIX	7	20	0.0135	0.314159	18.47
PC-7-30-HELIX	7	30	0.0135	0.314159	27.7
PC-8-20-HELIX	8	20	0.0135	0.314159	18.47
PC-8-30-HELIX	8	30	0.0135	0.314159	27.7
PC-9-20-HELIX	9	20	0.0135	0.314159	18.47
PC-9-30-HELIX	9	30	0.0135	0.314159	27.7
PC-10-20-HELIX	10	20	0.0135	0.314159	18.47
PC-10-30-HELIX	10	30	0.0135	0.314159	27.7

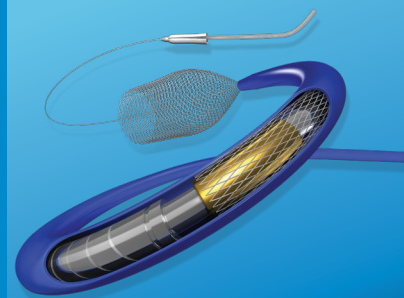
## Axiium™ MicroFX™ Nylon Helix

PRODUCT CATALOGUE NO.	DIA. (MM)	LENGTH (CM)	COIL O.D. (IN)	O.D. (MM)	VOL. (MM)
NC-2-1-HELIX	2	1	0.0115	0.2921	0.67
NC-2-2-HELIX	2	2	0.0115	0.2921	1.34
NC-2-3-HELIX	2	3	0.0115	0.2921	2.01
NC-2-4-HELIX	2	4	0.0115	0.2921	2.68
NC-2-6-HELIX	2	6	0.0115	0.2921	4.02
NC-2-8-HELIX	2	8	0.0115	0.2921	5.36

PRODUCT CATALOGUE NO.	DIA. (MM)	LENGTH (CM)	COIL O.D. (IN)	O.D. (MM)	VOL. (MM)
NC-3-4-HELIX	3	4	0.0115	0.2921	2.68
NC-3-6-HELIX	3	6	0.0115	0.2921	4.02
NC-3-8-HELIX	3	8	0.0115	0.2921	5.36
NC-4-8-HELIX	4	8	0.0125	0.3175	6.33
NC-4-10-HELIX	4	10	0.0125	0.3175	7.92

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

# PIPELINE™ FLEX EMBOLIZATION DEVICE



## PIPELINE™ IS OPTIMAL DELIVERED WITH PHENOM™

The Pipeline™ Flex embolization device redefines the scope of treatment for large, giant, wide-necked, failed-treatment, and fusiform aneurysms by reconstructing the parent artery and restoring its natural course with or without the use of adjunctive embolic devices.

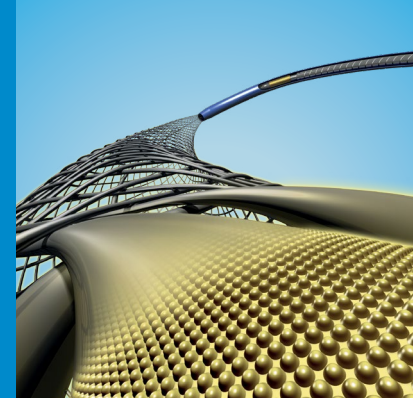
PRODUCT CATALOGUE NO.	DIAMETER (MM)	LENGTH (MM)
PED-250-10	2.5	10
PED-250-12	2.5	12
PED-250-14	2.5	14
PED-250-16	2.5	16
PED-250-18	2.5	18
PED-250-20	2.5	20
PED-300-10	3	10
PED-300-12	3	12
PED-300-14	3	14
PED-300-16	3	16
PED-300-18	3	18
PED-300-20	3	20
PED-300-25	3	25
PED-300-30	3	30
PED-300-35	3	35
PED-350-12	3.5	12
PED-350-14	3.5	14
PED-350-16	3.5	16
PED-350-18	3.5	18
PED-350-20	3.5	20
PED-350-25	3.5	25
PED-350-30	3.5	30
PED-350-35	3.5	35
PED-400-10	4	10
PED-400-12	4	12
PED-400-14	4	14
PED-400-16	4	16
PED-400-18	4	18
PED-400-20	4	20
PED-400-25	4	25
PED-400-30	4	30
PED-400-35	4	35
PED-450-12	4.5	12
PED-450-14	4.5	14
PED-450-16	4.5	16
PED-450-18	4.5	18
PED-450-20	4.5	20
PED-450-25	4.5	25
PED-450-30	4.5	30
PED-450-35	4.5	35
PED-500-14	5	14
PED-500-16	5	16
PED-500-18	5	18
PED-500-20	5	20
PED-500-25	5	25
PED-500-30	5	30
PED-500-35	5	35

**INDICATIONS:** The Pipeline™ Flex embolization device is intended for endovascular embolization of cerebral aneurysms. The Pipeline™ Flex embolization device redefines the scope of treatment for large, giant, wide-necked, failed-treatment, and fusiform aneurysms by reconstructing the parent artery and restoring its natural course with or without the use of adjunctive embolic devices.

# PIPELINE™ FLEX

## EMBOLIZATION DEVICE WITH SHIELD TECHNOLOGY™

PIPELINE™ IS OPTIMAL DELIVERED WITH PHENOM™



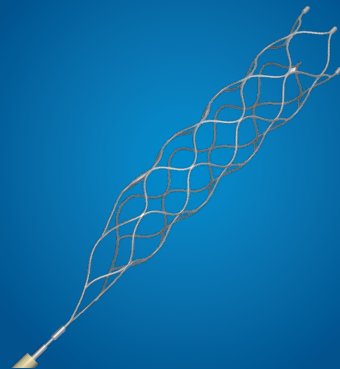
The Pipeline™ Flex embolization device with Shield Technology™ redefines the scope of treatment for large, giant, wide-necked, failed-treatment, and fusiform aneurysms by reconstructing the parent artery and restoring its natural course with or without the use of adjunctive embolic devices. Shield Technology™ reduces the material thrombogenicity of Pipeline™ device as per the Thrombogram test.

PRODUCT CATALOGUE NO.	DIAMETER (MM)	LENGTH (MM)
PED2-250-10	2.5	10
PED2-250-14	2.5	14
PED2-250-16	2.5	16
PED2-250-20	2.5	20
PED2-275-12	2.75	12
PED2-275-14	2.75	14
PED2-275-16	2.75	16
PED2-275-18	2.75	18
PED2-275-20	2.75	20
PED2-300-10	3	10
PED2-300-12	3	12
PED2-300-14	3	14
PED2-300-16	3	16
PED2-300-18	3	18
PED2-300-20	3	20
PED2-300-25	3	25
PED2-300-30	3	30
PED2-300-35	3	35
PED2-325-10	3.25	10
PED2-325-12	3.25	12
PED2-325-14	3.25	14
PED2-325-16	3.25	16
PED2-325-18	3.25	18
PED2-325-20	3.25	20
PED2-325-25	3.25	25
PED2-325-30	3.25	30
PED2-325-35	3.25	35
PED2-350-10	3.5	10
PED2-350-12	3.5	12
PED2-350-14	3.5	14
PED2-350-16	3.5	16
PED2-350-18	3.5	18
PED2-350-20	3.5	20
PED2-350-25	3.5	25
PED2-350-30	3.5	30
PED2-350-35	3.5	35
PED2-375-10	3.75	10
PED2-375-12	3.75	12
PED2-375-14	3.75	14
PED2-375-16	3.75	16
PED2-375-18	3.75	18
PED2-375-20	3.75	20
PED2-375-25	3.75	25
PED2-375-30	3.75	30
PED2-375-35	3.75	35

PRODUCT CATALOGUE NO.	DIAMETER (MM)	LENGTH (MM)
PED2-400-10	4	10
PED2-400-12	4	12
PED2-400-14	4	14
PED2-400-16	4	16
PED2-400-18	4	18
PED2-400-20	4	20
PED2-400-25	4	25
PED2-400-30	4	30
PED2-400-35	4	35
PED2-425-10	4.25	10
PED2-425-12	4.25	12
PED2-425-14	4.25	14
PED2-425-16	4.25	16
PED2-425-18	4.25	18
PED2-425-20	4.25	20
PED2-425-25	4.25	25
PED2-425-30	4.25	30
PED2-425-35	4.25	35
PED2-450-10	4.5	10
PED2-450-12	4.5	12
PED2-450-14	4.5	14
PED2-450-16	4.5	16
PED2-450-18	4.5	18
PED2-450-20	4.5	20
PED2-450-25	4.5	25
PED2-450-30	4.5	30
PED2-450-35	4.5	35
PED2-475-10	4.75	10
PED2-475-12	4.75	12
PED2-475-14	4.75	14
PED2-475-16	4.75	16
PED2-475-18	4.75	18
PED2-475-20	4.75	20
PED2-475-25	4.75	25
PED2-475-30	4.75	30
PED2-475-35	4.75	35
PED2-500-10	5	10
PED2-500-12	5	12
PED2-500-14	5	14
PED2-500-16	5	16
PED2-500-18	5	18
PED2-500-20	5	20
PED2-500-25	5	25
PED2-500-30	5	30
PED2-500-35	5	35

INDICATIONS: The Pipeline™ Flex embolization device with Shield Technology™ is intended for endovascular embolization of cerebral aneurysms.

# SOLITAIRE™ AB NEUROVASCULAR REMODELING DEVICE



The Solitaire™ AB neurovascular remodeling device is the first fully deployable and retrievable device of its kind. Solitaire™ AB is a self-expanding stent that is designed for bridging the neck of aneurysms to support the coil mass. It can be delivered and deployed by a single operator. The Solitaire™ AB neurovascular remodeling device is electrolytically detached using the Solitaire™ AB detachment system.

PRODUCT CATALOGUE NO.	VESSEL DIAMETER RANGE (MM)	DEVICE DIAMETER (MM)	MINIMUM MICROCATETER I.D. (IN)	DISTAL MARKERS	PROXIMAL MARKERS
SAB-3-20	2.2-3.0	3	0.021	3	1
SAB-3-30	2.2-3.0	3	0.021	3	1
SAB-4-15	3.0-4.0	4	0.021	3	1
SAB-4-20	3.0-4.0	4	0.021	3	1
SAB-4-30	3.0-4.0	4	0.021	3	1
SAB-4-40	3.0-4.0	4	0.021	3	1
SAB-5-20	4.0-5.0	5	0.027	4	1
SAB-5-30	4.0-5.0	5	0.027	4	1
SAB-5-40	4.0-5.0	5	0.027	4	1
SAB-6-20	5.0-6.0	6	0.027	4	1
SAB-6-30	5.0-6.0	6	0.027	4	1

INDICATIONS: The Solitaire™ AB neurovascular remodeling device is designed for use as an adjunctive device in the treatment of intracranial aneurysms.

## Vessel Diameter Sizing Chart

PRODUCT CATALOGUE NO.	USEABLE LENGTH (MM)					TOTAL LENGTH (MM)				
	VESSEL DIAMETER (MM)					VESSEL DIAMETER (MM)				
	2.2	3	4	5	6	2.2	3	4	5	6
SAB-3-20	24.2	21.7	-	-	-	32.2	31.1	-	-	-
SAB-3-30	36.6	32.1	-	-	-	44.8	41.7	-	-	-
SAB-4-15	-	17.6	15.6	-	-	-	27.7	27.3	-	-
SAB-4-20	-	22.5	20.6	-	-	-	33.1	32.1	-	-
SAB-4-30	-	33.1	31.1	-	-	-	43.5	42.3	-	-
SAB-4-40	-	44.3	40.2	-	-	-	54.2	51.6	-	-
SAB-5-20	-	-	23.2	20.1	-	-	-	33.6	32.6	-
SAB-5-30	-	-	32.4	29.1	-	-	-	42.9	41.8	-
SAB-5-40	-	-	42.1	38.3	-	-	-	52.4	50.9	-
SAB-6-20	-	-	-	19.6	17.9	-	-	-	32.7	32.3
SAB-6-30	-	-	-	30.9	28.3	-	-	-	43.9	42.8

## Solitaire™ AB Detachment System

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.

### Detachment Box

PRODUCT CATALOGUE NO.	DESCRIPTION
NDS-2X	Solitaire™ Detachment Box

### Cable Set

PRODUCT CATALOGUE NO.	LENGTH (M)	QUANTITY
CSS-2.75-1X	2.75	1
CSS-2.75-5X	2.75	5

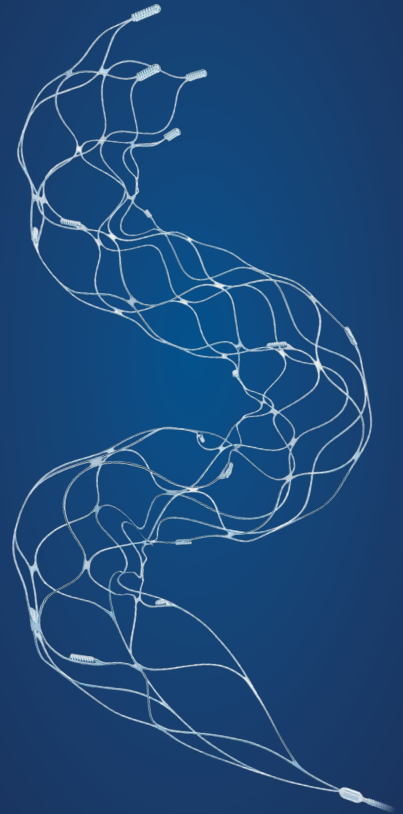


# ACUTE ISCHEMIC STROKE SOLUTIONS

CELLO™ BALLOON  
GUIDE CATHETER



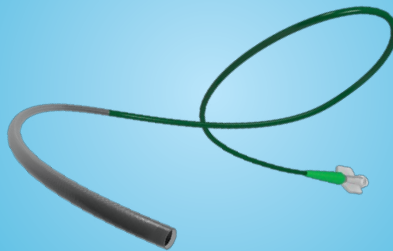
SOLITAIRE™ X  
REVASCULARIZATION  
DEVICE



FAMILY OF  
MICRO CATHETERS



REACT™ 68/71 FAMILY  
OF ASPIRATION  
CATHETERS



AVIGO™  
GUIDEWIRE



RIPTIDE™  
ASPIRATION  
SYSTEM



## React™ Aspiration Catheters for Acute Ischemic Stroke

The React™ 68 Catheter and the React™ 71 Catheter feature a coil and braid design along with end-to-end Nitinol construction - easing navigation to the M1 and M2 segments. Combined with the Riptide™ Aspiration System, these catheters are designed to revascularize patients experiencing acute ischemic stroke.

PRODUCT CATALOGUE NO.	ID	MAX OD	WORKING LENGTH
REACT-68	0.068"	0.083"	132 cm
REACT-71	0.071"	0.0855"	132 cm

INDICATIONS: The React™ 68 and React™ 71 Catheter is indicated for the introduction of interventional devices into the peripheral and neuro vasculature.

## Riptide™ Aspiration System

The Riptide™ Aspiration System is designed to remove occlusive thrombus from the cerebral vasculature using continuous aspiration. The catheter is connected to the Riptide™ Aspiration Pump through the aspiration tubing. The Intermediate Tubing connects the Riptide™ Collection Canister to the Riptide™ Aspiration Pump. The Riptide™ Aspiration System in this configuration may be used to aspirate thrombus from the occluded vessel.

PRODUCT NAME	CFNS	PRODUCT NAME	CFNS	VOLUME
Riptide™ Aspiration Pump	MAP-1000EU	Riptide™ Collection Canister with Intermediate Tubing	MAC-1200	1200ml

PRODUCT NAME	CFNS	INNER DIAMETER	TUBING LENGTH	DISTAL LENGTH
Riptide™ Large Bore Aspiration Tubing	MAT-110-110	0.110"	112"	7"

## Solitaire™ X Revascularization Device

The Solitaire™ X revascularization device is the latest generation of Solitaire family of devices, featuring Parametric™ design, a unique overlapping stent retriever-based technology, restores blood flow and retrieves clots from occluded blood vessels in the brain for patients experiencing acute ischemic stroke (AIS) due to a large vessel occlusion (LVO).

PRODUCT CATALOGUE NO.	REC. VESSEL DIAMETER (MM)	MINIMUM MICRO CATHETER I.D. (IN)	PUSH WIRE LENGTH (CM)	STENT DIA. (MM)	TOTAL LENGTH (MM)	PROXIMAL MARKER TO DISTAL MARKER LENGTH (MM)	DISTANCE FROM DISTAL TIP TO FLUOROSAFE MARKER (CM)	RADIOPAQUE MARKERS		RADIOPAQUE STENT MARKERS SPACING (MM)
								DIST.	PROX.	
SFR4-4-20-05	2.0 - 4.0	0.021	200	4.0	20.0	31.0	<130	3	1	5
SFR4-4-40-10	2.0 - 4.0	0.021	200	4.0	40.0	50.0	<130	3	1	10
SFR4-6-24-06	2.0 - 5.5	0.021	200	6.0	24.0	37.0	<130	4	1	6
SFR4-6-40-10	2.0 - 5.5	0.021	200	6.0	40.0	47.0	<130	4	1	10

### INDICATIONS:

The Solitaire™ X Revascularization Device is indicated for use to restore blood ow in the neurovasculature by removing thrombus for the treatment of acute ischemic stroke to reduce disability in patients with a persistent, proximal anterior circulation, large vessel occlusion, and smaller core infarcts who have rst received intravenous tissue plasminogen activator (IV t-PA). Endovascular therapy with the device should be started within 6 hours of symptom onset. The Solitaire™ X Revascularization Device is indicated to restore blood ow by removing thrombus from a large intracranial vessel in patients experiencing ischemic stroke within 8 hours of symptom onset. Patients who are ineligible for IV t-PA or who fail IV t-PA therapy are candidates for treatment. The Solitaire™ X Revascularization Device is indicated for use to restore blood ow in the neurovasculature by removing thrombus for the treatment of acute ischemic stroke to reduce disability in patients with a persistent, proximal anterior circulation, large vessel occlusion of the internal carotid artery (ICA) or middle cerebral artery (MCA)-M1 segments with smaller core infarcts (<70 cc by CTA or MRA, <25 cc by MR-DWI). Endovascular therapy with the device should start within 6-16 hours of time last seen well in patients who are ineligible for intravenous tissue plasminogen activator (IV t-PA) or who fail IV t-PA therapy.

## Solitaire™ Platinum Revascularization Device

The Solitaire™ Platinum Revascularization Device is the next generation into the Solitaire™ family which has an enhanced visibility that provides feedback during the treatment of stroke patients. The Solitaire™ Platinum Revascularization Device is designed to restore blood flow in patients experiencing ischemic stroke due to large intracranial vessel occlusion. The device is designed for use in the neurovasculature such as the internal carotid artery, M1 and M2 segments of the middle cerebral artery, basilar, and the vertebral arteries.

PRODUCT CATALOGUE NO.	REC. VESSEL DIAMETER (MM)	MINIMUM MICRO CATHETER I.D. (IN)	PUSH WIRE LENGTH (CM)	STENT DIA. (MM)	TOTAL LENGTH (MM)	PROXIMAL MARKER TO DISTAL MARKER LENGTH (MM)	DISTANCE FROM DISTAL TIP TO FLUOROSAFE MARKER (CM)	RADIOPAQUE MARKERS		RADIOPAQUE STENT MARKERS SPACING (MM)
								DIST.	PROX.	
SRD3-4-20-10	2.0-4.0	0.021	180	4.0	20.0	31.0	<130	3	1	10
SRD3-4-40-10	2.0-4.0	0.021	180	4.0	40.0	50.0	<130	3	1	10
SRD3-6-20-10	3.0-5.5	0.027	180	6.0	20.0	31.0	<130	4	1	10
SRD3-6-40-10	3.0-5.5	0.027	180	6.0	40.0	47.0	<130	4	1	10

INDICATIONS: The Solitaire™ Platinum Revascularization Device is intended to restore blood flow by removing thrombus from a large intracranial vessel in patients experiencing ischemic stroke within 8 hour of symptom onset. Patients who are ineligible for intravenous tissue plasminogen activator (IV t-PA) or who fail IV t-PA therapy are candidates for treatment.

# NEURO RADIOLOGY ACCESS AND DELIVERY DEVICES

BALLOONS



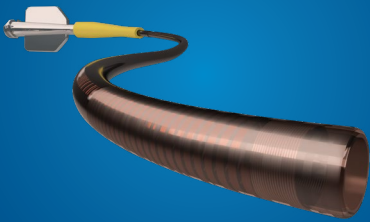
GUIDEWIRES



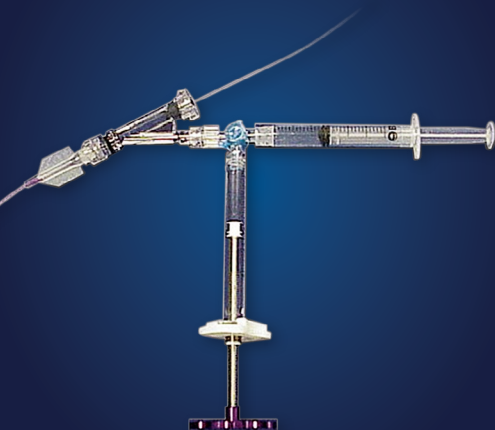
BALLOON GUIDE  
CATHETER



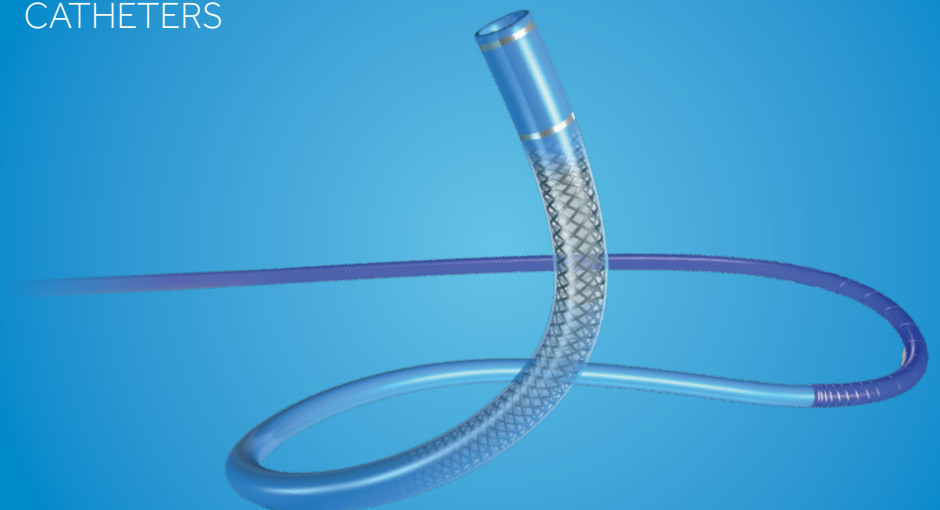
INTRACRANIAL  
CATHETERS



ACCESSORIES



MICRO  
CATHETERS



# BALLOONS



A single lumen design balloon catheter with a complete line of sizes of compliant and super compliant neurovascular balloons for the optimal support of neurovascular procedures. Hyper balloons are DMSO compatible.

## HyperForm™ Occlusion Balloon System Line Extension

The HyperForm™ occlusion balloon system is a single lumen balloon catheter that requires the insertion of the 0.010" guidewire to occlude the central lumen to allow inflation of the balloon. When the distal 10 cm platinum coil tip of the guidewire is advanced to or past the catheter tip, it occludes the inflation holes allowing the balloon to inflate through catheter sideholes.

PRODUCT CATALOGUE NO.	PROXIMAL O.D. (F)	DISTAL O.D. (F)	USABLE LENGTH (CM)	BALLOON DIAMETER (MM)	BALLOON LENGTH (MM)	TIP LENGTH (MM)
104-4370	2.8	2.2	150	3	7	2
104-4153	2.8	2.2	150	3	15	2
104-4470	2.8	2.5	150	4	7	2
104-4415	2.8	2.5	150	4	15	2
104-4420	2.8	2.5	150	4	20	2
104-4770	2.8	3	150	7	7	2
104-4715	2.8	3	150	7	15	2

INDICATIONS: The HyperForm™ occlusion balloon catheter is designed for the use in the blood vessels of the peripheral and neurovasculature where temporary occlusion is desired. The HyperForm™ occlusion balloon catheter offers a vessel selective technique of temporary vascular occlusion which is useful in selectively stopping or controlling blood flow.

## HyperGlide™ Occlusion Balloon System

The HyperGlide™ occlusion balloon system is a single lumen balloon catheter that requires the insertion of the 0.010" guidewire to occlude the central lumen to allow inflation of the balloon. When the distal 10 cm platinum coil tip of the guidewire is advanced to or past the catheter tip, it occludes the inflation holes allowing the balloon to inflate through catheter sideholes. All systems packaged with an X-pedion™ hydrophilic guidewire (103-0605-200).

PRODUCT CATALOGUE NO.	PROXIMAL O.D. (F)	DISTAL O.D. (F)	USABLE LENGTH (CM)	BALLOON DIAMETER (MM)	BALLOON LENGTH (MM)	TIP LENGTH (MM)
104-4310	2.8	2.2	150	3	10	4
104-4315	2.8	2.2	150	3	15	4
104-4113	2.8	2.2	150	4	10	4
104-4112	2.8	2.2	150	4	15	4
104-4127	2.8	2.2	150	4	20	4
104-4132	2.8	2.2	150	4	30	4
104-4515	2.8	2.2	150	5	15	4
104-4520	2.8	2.2	150	5	20	4
104-4530	2.8	2.2	150	5	30	4

INDICATIONS: The HyperGlide™ occlusion balloon catheter is designed for the use in the blood vessels of the peripheral and neurovasculature where temporary occlusion is desired. The HyperGlide™ occlusion balloon catheter offers a vessel selective technique of temporary vascular occlusion which is useful in selectively stopping or controlling blood flow.

# GUIDEWIRES



## Avigo™ Hydrophilic Guidewire

The Avigo™ 0.014" hydrophilic guidewire offers ultimate support for tracking robust systems, crossing clot, and maintaining catheter position.

PRODUCT CATALOGUE NO.	DIAMETER (IN)	TOTAL LENGTH (CM)	COIL LENGTH (CM)	TIP SHAPE
103-0606-200	0.014	205	5	Straight

INDICATIONS: The Avigo™ hydrophilic guidewire is indicated for general intravascular use to aid in the selective placement of catheters in the peripheral and cerebral vasculature during diagnostic and/or therapeutic procedures. The device is not intended for use in the coronary arteries.

## Mirage™ 0.008" Hydrophilic Guidewire

The Mirage™ hydrophilic guidewire is a stainless steel guidewire with a radiopaque, platinum distal coil. The guidewire is hydrophilically coated on the distal portion.

PRODUCT CATALOGUE NO.	DIAMETER (IN)	TOTAL LENGTH (CM)	COIL LENGTH (CM)
103-0608	0.008	200	10

INDICATIONS: The Mirage™ hydrophilic guidewire is indicated for general intravascular use to aid in the selective placement of catheters in the peripheral, visceral and cerebral vasculature during diagnostic and/or therapeutic procedures.

## X-pedion™ Hydrophilic Guidewire

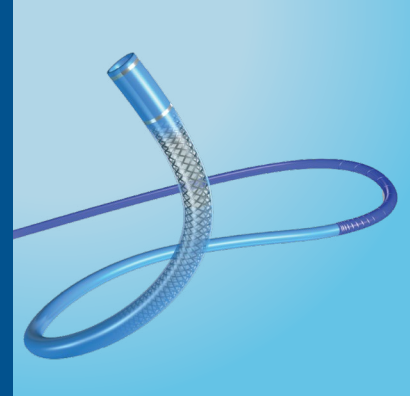
The X-pedion™ hydrophilic guidewire is a stainless steel guidewire with a radiopaque, platinum distal coil. The guidewire is hydrophilically coated on the distal portion.

PRODUCT CATALOGUE NO.	DIAMETER (IN)	TOTAL LENGTH (CM)	COIL LENGTH (CM)
103-0605-200	0.010	200	10

INDICATIONS: The X-pedion™ hydrophilic guidewire is indicated for general intravascular use to aid in the selective placement of catheters in the peripheral, visceral and cerebral vasculature during diagnostic and/or therapeutic procedures.

A torque device to assist in guidewire manipulation and a guidewire introducer to ease the introduction of the guidewire into the catheter hub and/or hemostatic valve is provided in the sterile pouch of every guidewire.

# MICRO CATHETERS



## Marathon™ Micro Catheter

Marathon™ is a flow directed micro catheter with a proximal stainless steel coil for great proximal support and a nitinol distal braiding for high kink resistance for optimised delivery of Onyx™ liquid embolic system.

PRODUCT CATALOGUE NO.	OUTER DIAMETER (FR)	DISTAL INNER DIAMETER (IN)	TOTAL LENGTH (CM)	USABLE LENGTH (CM)	DISTAL LENGTH (CM)	MAX. GUIDEWIRE (IN)
105-5056	2.7-1.5	0.013	170	165	25	0.01

INDICATIONS: The Marathon™ micro catheter is intended to access peripheral and neurovasculature for the controlled selective infusion of physician-specified therapeutic agents such as embolization catheter materials and diagnostic materials such as contrast media.

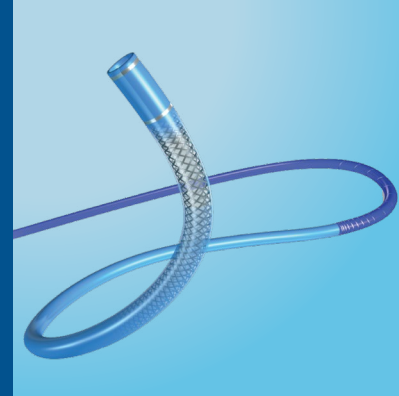
## Apollo™ Onyx™ Delivery Micro Catheter

Apollo™ Onyx™ delivery micro catheter is designed with a stainless steel proximal coil for high kink resistance and distal nitinol braiding for reinforcement.

PRODUCT CATALOGUE NO.	DISTAL OUTER DIAMETER (FR)	PROXIMAL DIAMETER (FR)	INNER DIAMETER (IN)	TOTAL LENGTH (CM)	TIP LENGTH (CM)	TIP SHAPE	WIRE COMPATIBILITY (IN)
105-5095-000	1.5	2.7	0.013	165	1.5	Straight	≤ 0.01
105-5096-000	1.5	2.7	0.013	165	3	Straight	≤ 0.01
105-5097-000	1.5	2.7	0.013	165	5	Straight	≤ 0.01

INDICATIONS: Apollo™ Onyx™ delivery micro catheter is intended to access the neurovasculature for the controlled selective infusion of physician-specified therapeutic such as embolization materials and diagnostic materials such as contrast media.

# MICRO CATHETERS



## Echelon™ Micro Catheter

The Echelon™ micro catheter is a steam shapeable micro catheter with variable nitinol braiding and a flexible distal tip for optimal device delivery. The Echelon™ micro catheter is DMSO compatible.

PRODUCT NAME	PRODUCT CATALOGUE NO.	OUTER DIAMETER (FR)	DISTAL INNER DIAMETER (IN)	TOTAL LENGTH (CM)	USABLE LENGTH (CM)	MAX GUIDEWIRE (IN)	TIP LENGTH (MM)	TIP SHAPE
Echelon™ 10	105-5091-150	2.1-1.7	0.017	155	150	0.014	-	Straight
	145-5091-150	2.1-1.7	0.017	155	150	0.014	2.5	45°
	190-5091-150	2.1-1.7	0.017	155	150	0.014	5	90°
Echelon™ 14	105-5092-150	2.4-1.9	0.017	155	150	0.014	-	Straight
	145-5092-150	2.4-1.9	0.017	155	150	0.014	2.5	45°
	190-5092-150	2.4-1.9	0.017	155	150	0.014	5	90°

INDICATIONS: The Echelon™ micro catheter is intended to access peripheral and neurovasculature for the controlled selective infusion of physician-specified therapeutic agents such as embolization materials and of diagnostic materials such as contrast media.

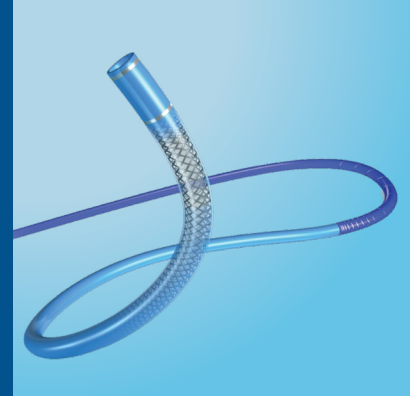
## Marksman™ Micro Catheter

All Marksman™ micro catheters are specially designed for the optimal and safe delivery of the Pipeline™ embolization device except Marksman™ 160 micro catheter specially designed for Stroke. Proximally the design is offering a stainless steel coil and a stainless steel braiding for optimised handling and support. The Marksman™ catheter has a high kink resistant stainless steel braiding for a smooth device delivery.

PRODUCT CATALOGUE NO.	OUTER DIAMETER DISTAL/PROXIMAL (FR)	INNER DIAMETER (IN)	WORKING LENGTH (CM)	DISTAL FLEXIBLE LENGTH (CM)
FA-55105-1015	2.8/3.2	0.027	105	10
FA-55135-1030	2.8/3.2	0.027	135	10
FA-55150-1030	2.8/3.2	0.027	150	10
FA-55160-1030	2.8/3.2	0.027	160	10

INDICATIONS: The Marksman™ micro catheter is intended for the introduction of interventional and infusion of diagnostic or therapeutic agents into the neuro, peripheral, and coronary vasculature.

# MICRO CATHETERS



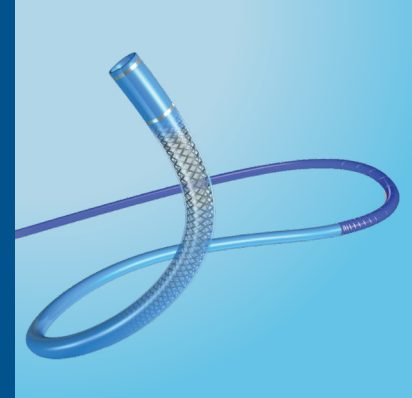
## Rebar™ Reinforced Micro Catheter

Rebar™ micro catheter is a stainless steel coil reinforced micro catheter offering high kink resistance for optimal device delivery. Rebar™ micro catheter is compatible with Onyx™ liquid embolic system.

PRODUCT NAME	PRODUCT CATALOGUE NO.	OUTER DIAMETER (FR)	DISTAL INNER DIAMETER (IN)	TOTAL LENGTH (CM)	USABLE LENGTH (CM)	MAX GUIDEWIRE (IN)	MARKER BANDS
Rebar™ 18	105-5081-153	2.7-2.4	0.021	158	153	0.018	2
Rebar™ 27	105-5082-130	2.8-2.8	0.027	135	130	0.021	1

INDICATIONS: The Rebar™ micro catheter is intended for the controlled selective infusion of physician-specified therapeutic agents or contrast media into the vasculature of the peripheral and neuro anatomy.

# PHENOM™ FAMILY OF CATHETERS



Phenom™ 017 Catheter: select your tip shape for optimal coil delivery

PRODUCT CATALOGUE NO.	SIZE	DISTAL O.D. (IN)	PROXIMAL O.D. (IN)	CATHETER I.D. (IN)	WORKING LENGTH (CM)	COIL LENGTH (CM)	DISTAL LENGTH (CM)	TIP SHAPE	TIP MARKERS
FG11150-0615-2S	17	0.024	0.029	0.017	150	15	6	Straight	2
FG11150-0615-2J	17	0.024	0.029	0.017	150	15	6	J Curve	2
FG11150-0615-2X	17	0.024	0.029	0.017	150	15	6	45 Curve	2
FG11150-0615-2R	17	0.024	0.029	0.017	150	15	6	90 Curve	2

Phenom™ 021 Catheter: Purposefully designed for Pipeline™

PRODUCT CATALOGUE NO.	SIZE	DISTAL O.D. (IN)	PROXIMAL O.D. (IN)	CATHETER I.D. (IN)	WORKING LENGTH (CM)	COIL LENGTH (CM)	DISTAL LENGTH (CM)	TIP SHAPE	TIP MARKERS
FG13150-0615-S2	21	0.024	0.029	0.021	150	15	6	Straight	2

Phenom™ 021 Catheter: Ultimate Delivery Platform for Solitaire™

Phenom™ 160 cm microcatheters are the ultimate delivery platform for stent deployment. The soft and rounded distal tip is designed to reduce the risk of vessel trauma. The flexibility of the distal shaft allows the catheters to track well in tortuous anatomy while maintaining stability during stent delivery. The lumen is strategically engineered to prevent ovalization and provide durability for delivering stents with minimal friction.

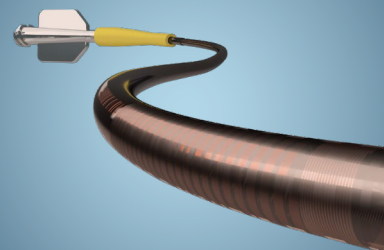
PRODUCT CATALOGUE NO.	SIZE	DISTAL O.D. (IN)	PROXIMAL O.D. (IN)	CATHETER I.D. (IN)	WORKING LENGTH (CM)	COIL LENGTH (CM)	DISTAL LENGTH (CM)	TIP SHAPE	TIP MARKERS
FG13160-0615-1S	21	0.030	0.034	0.021	160	15	6	Straight	1

Phenom™ 027 Catheter: Purposefully designed for Pipeline™

Phenom™ 027 microcatheter was precisely engineered for Pipeline™ Flex Embolization Device with Shield Technology, to achieve a symbiotic function. Designed to reach the aneurysm and secure access, thereby enhancing trackability and an inner lumen engineered to prevent ovalization for a fully controlled and smooth delivery. Robust proximal pushability from composite shaft with optimal flexibility for complex procedures.

PRODUCT CATALOGUE NO.	SIZE	DISTAL O.D. (IN)	PROXIMAL O.D. (IN)	CATHETER I.D. (IN)	WORKING LENGTH (CM)	COIL LENGTH (CM)	DISTAL LENGTH (CM)	TIP SHAPE	TIP MARKERS
FG15150-0615-1S	27	0.036	0.040	0.027	150	15	6	Straight	1
FG15150-0630-1S	27	0.036	0.040	0.027	150	30	6	Straight	1

# INTRACRANIAL CATHETERS



## Navien™ A+ Intracranial Support Catheter

Navien™ intracranial support catheter with a variable pitch nitinol coil offering a very flexible and supportive catheter with minimal ovalization for controlled device delivery. Optimal aspiration and durability for AIS interventions.

PRODUCT CATALOGUE NO.	OUTER DIAMETER (FR/IN)	INNER DIAMETER (IN)	TOTAL LENGTH (CM)	TIP SHAPE	WIRE COMPATIBILITY (IN)
RFXA058-105-08	5/0.07 max	0.058	105	Straight	0.035/0.038
RFXA058-115-08	5/0.07 max	0.058	115	Straight	0.035/0.038
RFXA058-125-08	5/0.07 max	0.058	125	Straight	0.035/0.038
RFXA058-130-08	5/0.070 max	0.058	130	Straight	0.035/0.038
RFXA072-95-08	6/0.084 max	0.072	95	Straight	0.035/0.038
RFXA072-95-08MP	6/0.084 max	0.072	95	Multi-Purpose 25°	0.035/0.038
RFXA072-105-08	6/0.084 max	0.072	105	Straight	0.035/0.038
RFXA072-115-08	6/0.084 max	0.072	115	Straight	0.035/0.038
RFXA072-125-08	6/0.084 max	0.072	125	Straight	0.035/0.038
RFXA072-105-08MP	6/0.084 max	0.072	105	Multi-Purpose 25°	0.035/0.038
RFXA072-115-08MP	6/0.084 max	0.072	115	Multi-Purpose 25°	0.035/0.038
RFXA072-125-08MP	6/0.084 max	0.072	125	Multi-Purpose 25°	0.035/0.038
RFXA072-130-08	6/0.084 max	0.072	130	Straight	0.035/0.038
RFXA072-130-08MP	6/0.084 max	0.072	130	Multi-Purpose 25°	0.035/0.038

Distal Flexible Length for all sizes = 8cm

INDICATIONS: The Navien™ intracranial catheter is indicated for the introduction of interventional/diagnostic devices into the peripheral, coronary, and neuro vasculature. The Navien™ intracranial catheter is also indicated for the removal/aspiration of fresh, soft emboli and thrombi from selected blood vessels in the arterial system, including neurovasculature.

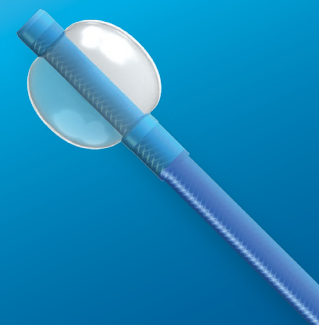
## Phenom™ Plus Catheter

With features such as an elite composite shaft, proprietary inner lining, and a rounded distal tip, the PHENOM™ FAMILY OF CATHETERS are the ultimate delivery platform for coil and stent delivery.<sup>1</sup> Different clinical scenarios require variations in levels of support and navigation. With Phenom™ catheters, we provide various catheter specifications to meet your needs.

PRODUCT CATALOGUE NO.	SIZE	DISTAL O.D. (IN)	PROXIMAL O.D. (IN)	CATHETER I.D. (IN)	WORKING LENGTH (CM)	COIL LENGTH (CM)	DISTAL LENGTH (CM)	TIP SHAPE	TIP MARKERS
FG19105-0630-1S	45	0.055	0.061	0.0445	105	30	6	Straight	1
FG19120-1030-1S	45	0.055	0.061	0.0445	120	30	10	Straight	1

INDICATIONS: Phenom™ catheters are intended for the introduction of interventional devices and infusion of diagnostic or therapeutic agents into the neuro, peripheral, and coronary vasculatures.

# BALLOON GUIDE CATHETERS



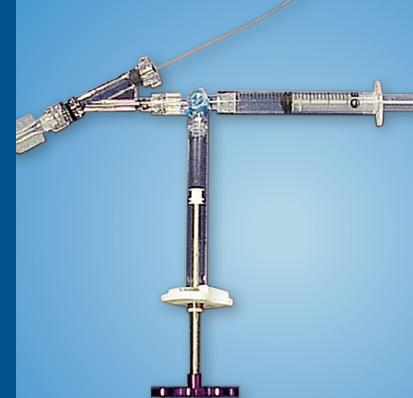
## Cello™ Balloon Guide Catheter

The Cello™ balloon guide catheter is indicated for use in facilitating the insertion and guidance of intravascular catheters into a selected blood vessel in the peripheral and neuro vascular systems. The balloon provides temporary vascular occlusion during these and other angiographic procedures.

PRODUCT NAME	PRODUCT CATALOGUE NO.	CONFORMABLE SHEATH (F)	OUTER DIAMETER (IN)	INNER DIAMETER (IN)	TIP LENGTH (MM)	BALLOON LENGTH (MM)	EFFECTIVE LENGTH (CM)	TOTAL LENGTH (CM)
Cello 6F+	1610060	7	6F+ (0.079)	0.051	3	7	95	103
Cello 7F+	1610070	8	7F+ (0.094)	0.067	3	7	95	103
Cello 8F	1610080	8	8F (0.106)	0.075	3	10	95	103
Cello 9F	1610090	9	9F (0.114)	0.085	3	10	92	100

INDICATIONS: The Cello™ balloon guide catheter is intended to temporarily block blood flow by expanding a balloon inside blood vessels during operations, such as: urgent hemostasis, hemostasis for surgery, perfusion of blood to peripheral vessel and arterial injection for chemotherapy.

# ACCESSORIES



## Cadence™ Precision Injector

Cadence™ precision injector syringe with threaded plunger.

PRODUCT CATALOGUE NO.	CAPACITY (ML)	SYRINGES/BOX
103-0304	1	5

INDICATIONS: The Cadence™ precision injector is intended for the delivery of fluids.

## 1ml Luer-Lock Injection Syringe

PRODUCT CATALOGUE NO.	CAPACITY (ML)	SYRINGES/BOX
103-1203	1	10

INDICATIONS: The Luer-Lock injector syringe is intended for the delivery of fluids.





See the device manual for detailed information regarding the instructions for use, indications, contraindications, warnings, precautions, and potential adverse events. For further information, contact your local Medtronic representative and/or consult the Medtronic website at [medtronic.eu](https://www.medtronic.eu).

## Reference

<sup>1</sup> Cathera Document ML-0001.A Phenom is a trademark of Cathera, In.

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