

Leading the way with new technologies and products

MicroVention Product Catalog International 2016

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TERUMO
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MICROVENTION, MicroPlex, Cosmos, VFC, HyperSoft, HydroSoft, HydroFrame, HydroFill, V-Trak, V-Grip, Chaperon, Traxcess, Headway, Scepter C, Scepter XC, LVIS, FRED, ERIC, PHIL, SOFIA and CASPER are registered trademarks of MicroVenton, Inc. Scientific and clinical data related to this document are on file at MicroVenton, Inc. Refer to Instructions for Use, contraindications and warnings for additional information. ©2016 MicroVenton, Inc. MM259(I) April 2016 Rev.D





Cosmos[®] Advanced Complex Coils

For framing, filling and finishing

10 Coil Size

Recommended 2-Tip Marker Microcatheter
≥.0165" Lumen
(Stretch-Resistant)

Reference No.	Diameter (mm)	Length (cm)
100202CSSR-V	2	2
100254CSSR-V	2.5	4
100306CSSR-V	3	6
100408CSSR-V	4	8
100412CSSR-V	4	12
100515CSSR-V	5	15
100522CSSR-V	5	22
100618CSSR-V	6	18
100626CSSR-V	6	26
100722CSSR-V	7	22
100731CSSR-V	7	31
100825CSSR-V	8	25
100837CSSR-V	8	37
100933CSSR-V	9	33
101036CSSR-V	10	36

Cosmos[®] Advanced Complex Coils

For framing, filling and finishing

18 Coil Size

Recommended 2-Tip Marker Microcatheter
≥.0165" Lumen

Reference No.	Diameter (mm)	Length (cm)
180619CS-V	6	19
180723CS-V	7	23
180827CS-V	8	27
180931CS-V	9	31
181036CS-V	10	36
181139CS-V	11	39
181243CS-V	12	43
181347CS-V	13	47
181451CS-V	14	51
181652CS-V	16	52
181859CS-V	18	59
182065CS-V	20	65
182263CS-V	22	63
182468CS-V	24	68



Features

Initial Progressively-Sized Loops

Combination of Unique Variable-Diameter Loops and Innovative Deployment

Stability

Choices of Length

Benefits

Allows better controlled deployment into the aneurysm

Optimum framing provided by variable diameter loops directed towards periphery of aneurysm

As loops deploy, they brace the previously deployed loops

Loops find space along aneurysm periphery and provide excellent neck coverage

Stable basket upon subsequent coil deployment

Ability to concentrically fill

Long lengths provide greater volume fill and extensive coverage

INDICATIONS FOR USE:

The MicroPlex[®] Coil System (MCS) is intended for the endovascular embolization of intracranial aneurysms and other neurovascular abnormalities such as arteriovenous malformations and arteriovenous fistulae. The MCS is also intended for vascular occlusion of blood vessels within the neurovascular system to permanently obstruct blood flow to an aneurysm or other vascular malformation and for arterial and venous embolizations in the peripheral vasculature.

The device should only be used by physicians who have undergone pre-clinical training in all aspects of MCS procedures as prescribed by MicroVention.



MicroPlex[®] Advanced Complex Coils

For framing and filling

10 Coil Size

Recommended 2-Tip Marker Microcatheter
≥.0165" Lumen

Reference No.	Diameter (mm)	Length (cm)
100204CC-V	2	4
100307CC-V	3	7
100410CC-V	4	10
100512CC-V	5	12
100615CC-V	6	15
100718CC-V	7	18
100820CC-V	8	20
100924CC-V	9	24
101026CC-V	10	26

MicroPlex[®] Advanced Complex Coils

For framing and filling

18 Coil Size

Recommended 2-Tip Marker Microcatheter
≥.0165" Lumen for coils 12mm or smaller
≥.018" Lumen for coils 13mm or larger

Reference No.	Diameter (mm)	Length (cm)
181128CC-V	11	28
181231CC-V	12	31
181332CC-V	13	32
181434CC-V	14	34
181639CC-V	16	39
181844CC-V	18	44
182050CC-V	20	50



Features

Versatile Framework

Benefits

Designed to reduce compartmentalization and provide greater neck coverage

Provides even distribution of coil loops at the periphery of the aneurysm

Enhanced Stability

Each successive loop gently rotates course, changing direction as it is deployed

Superior Conformability

Without assuming a pre-determined three-dimensional shape, the complex coil is able to frame a wide range of aneurysm morphologies

Facilitates placement of multiple consecutive complex coils

INDICATIONS FOR USE:

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V-Trak[®] Advanced Coils



VFC[®] Versatile Range Fill Advanced Coils

For filling

Recommended 2-Tip Marker Microcatheter
 ≥ 0.0165" Lumen
(Stretch-Resistant)

Reference No.	Diameter Range (mm)	Length (cm)
VFC010303-V	1 - 3	3
VFC030606-V	3 - 6	6
VFC030610-V	3 - 6	10
VFC030615-V	3 - 6	15
VFC061020-V	6 - 10	20
VFC061030-V	6 - 10	30
VFC101530-V	10 - 15	30
VFC101540-V	10 - 15	40
VFC152040-V	15 - 20	40
VFC152060-V	15 - 20	60

Features

Revolutionary Coil Design With Complex Loops And Waves

Single Coil Fills A Range Of Diameters

Long Length Options

Progressive Diameter Design

Benefits

Allows for improved coil distribution, greater packing density and easier placement

Seeks out and fills open spaces

Efficient aneurysm coiling

Simplified coil selection

May significantly reduce coil inventory levels

Greater volume fill potential with a single coil

Less microcatheter movement

Softer coil during deployment

All coils are compatible with .0165" (0.42mm) ID microcatheters



INDICATIONS FOR USE:

The MicroPlex[®] Coil System (MCS) is intended for the endovascular embolization of intracranial aneurysms and other neurovascular abnormalities such as arteriovenous malformations and arteriovenous fistulae. The MCS is also intended for vascular occlusion of blood vessels within the neurovascular system to permanently obstruct blood flow to an aneurysm or other vascular malformation and for arterial and venous embolizations in the peripheral vasculature.

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HyperSoft[®] 3D Advanced Complex Coils

For framing, filling and finishing

10 Coil Size

Recommended 2-Tip Marker Microcatheter
≥ 0.0165" Lumen

Stretch-Resistant

Reference No.	Diameter (mm)	Length (cm)
100102HS3D-V	1	2
100103HS3D-V	1	3
100152HS3D-V	1.5	2
100153HS3D-V	1.5	3
100154HS3D-V	1.5	4
100202HS3D-V	2	2
100203HS3D-V	2	3
100204HS3D-V	2	4
100254HS3D-V	2.5	4
100256HS3D-V	2.5	6
100304HS3D-V	3	4
100306HS3D-V	3	6
100355HS3D-V	3.5	5
100358HS3D-V	3.5	8
100406HS3D-V	4	6
100408HS3D-V	4	8
100510HS3D-V	5	10
100515HS3D-V	5	15

Features

All-in-One Coil

Soft Complex Shape

Wider Range in Coil Sizes and Lengths

True to Size

Benefits

Hybrid design provides ability to Frame, Fill, and Finish

Engineered to easily conform to various aneurysm morphologies

Provides optimal choices in complex aneurysm morphologies

Finish with Precision – Eliminates the need to under or oversize a coil



INDICATIONS FOR USE:

The MicroPlex[®] Coil System (MCS) is intended for the endovascular embolization of intracranial aneurysms and other neurovascular abnormalities such as arteriovenous malformations and arteriovenous fistulae. The MCS is also intended for vascular occlusion of blood vessels within the neurovascular system to permanently obstruct blood flow to an aneurysm or other vascular malformation and for arterial and venous embolizations in the peripheral vasculature.

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MicroPlex[®] Advanced Helical Coils		
For filling		
10 Coil Size		
Recommended 2-Tip Marker Microcatheter ≥.0165" Lumen (Stretch-Resistant)		
Reference No.	Diameter (mm)	Length (cm)
Soft		
100202HCSR-S-V	2	2
100204HCSR-S-V	2	4
100206HCSR-S-V	2	6
100208HCSR-S-V	2	8
100306HCSR-S-V	3	6
100308HCSR-S-V	3	8
100310HCSR-S-V	3	10
100408HCSR-S-V	4	8
100410HCSR-S-V	4	10
Regular		
100515HCSR-R-V	5	15
100520HCSR-R-V	5	20
100620HCSR-R-V	6	20
100730HCSR-R-V	7	30
100830HCSR-R-V	8	30
100930HCSR-R-V	9	30
101030HCSR-R-V	10	30

MicroPlex[®] Advanced Helical Coils		
For filling		
18 Coil Size		
Recommended 2-Tip Marker Microcatheter ≥.0165" Lumen		
Reference No.	Diameter (mm)	Length (cm)
Soft		
180204HC-S-V	2	4
180208HC-S-V	2	8
180304HC-S-V	3	4
180308HC-S-V	3	8
180406HC-S-V	4	6
180410HC-S-V	4	10
180512HC-S-V	5	12
180615HC-S-V	6	15
Regular		
180520HC-R-V	5	20
180620HC-R-V	6	20
180730HC-R-V	7	30
180830HC-R-V	8	30
180930HC-R-V	9	30
181030HC-R-V	10	30
181230HC-R-V	12	30
181430HC-R-V	14	30
181630HC-R-V	16	30
181830HC-R-V	18	30
182030HC-R-V	20	30



Features

Versatile Framework

Available in Wide Range of Sizes

Benefits

Exceptionally soft for easy deployment and repositioning

10 and 18 systems with 10 system stretch-resistant available

Provides efficient packing

INDICATIONS FOR USE:

The MicroPlex[®] Coil System (MCS) is intended for the endovascular embolization of intracranial aneurysms and other neurovascular abnormalities such as arteriovenous malformations and arteriovenous fistulae. The MCS is also intended for vascular occlusion of blood vessels within the neurovascular system to permanently obstruct blood flow to an aneurysm or other vascular malformation and for arterial and venous embolizations in the peripheral vasculature.

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**MicroPlex[®] HyperSoft[®]
Advanced Coils**

For finishing

10 Coil Size

Recommended 2-Tip Marker Microcatheter
≥.0165" Lumen
(Stretch-Resistant)

Reference No.	Diameter (mm)	Length (cm)
100151HS-V	1.5	1
100152HS-V	1.5	2
100153HS-V	1.5	3
100154HS-V	1.5	4
100201HS-V	2	1
100202HS-V	2	2
100203HS-V	2	3
100204HS-V	2	4
100206HS-V	2	6
100254HS-V	2.5	4
100256HS-V	2.5	6
100304HS-V	3	4
100306HS-V	3	6
100308HS-V	3	8
100406HS-V	4	6
100408HS-V	4	8
100508HS-V	5	8
100608HS-V	6	8

Features

Soft and Conformable Coil

Softer Pusher

Benefits

Greater packing density and easier placement

Ability to place coil in confined spaces

Less microcatheter movement or deflection for better control placing the coil into the aneurysm

Designed to reduce microcatheter kickback



INDICATIONS FOR USE:

The MicroPlex[®] Coil System (MCS) is intended for the endovascular embolization of intracranial aneurysms and other neurovascular abnormalities such as arteriovenous malformations and arteriovenous fistulae. The MCS is also intended for vascular occlusion of blood vessels within the neurovascular system to permanently obstruct blood flow to an aneurysm or other vascular malformation and for arterial and venous embolizations in the peripheral vasculature.

The device should only be used by physicians who have undergone pre-clinical training in all aspects of MCS procedures as prescribed by MicroVention.



HydroFrame® Advanced Complex Coils		
For framing and filling		
10 Coil Size		
Recommended 2-Tip Marker Microcatheter ≥.0165" Lumen (Stretch-Resistant)		
Reference No.	Diameter (mm)	Length (cm)
100202HFRM-V	2	2
100254HFRM-V	2.5	4
100306HFRM-V	3	6
100405HFRM-V	4	5
100408HFRM-V	4	8
100510HFRM-V	5	10
100515HFRM-V	5	15
100612HFRM-V	6	12
100619HFRM-V	6	19
100715HFRM-V	7	15
100728HFRM-V	7	28
100817HFRM-V	8	17
100833HFRM-V	8	33
100931HFRM-V	9	31
101036HFRM-V	10	36

HydroFrame® Advanced Complex Coils		
For framing and filling		
18 Coil Size		
Recommended 2-Tip Marker Microcatheter ≥.0165" Lumen		
Reference No.	Diameter (mm)	Length (cm)
180619HFRM-V	6	19
180723HFRM-V	7	23
180827HFRM-V	8	27
180931HFRM-V	9	31
181036HFRM-V	10	36
181139HFRM-V	11	39
181243HFRM-V	12	43
181347HFRM-V	13	47
181445HFRM-V	14	45
181644HFRM-V	16	44
181850HFRM-V	18	50
182048HFRM-V	20	48



Features

First Two Loops Progressively-Sized

Variable-Diameter Loops and Innovative Deployment

Stability

Ease of Use

Greater Volume Fill

Ability to Deliver Hydrogel at the Neck

Benefits

Better initial deployment

Excellent framing along aneurysm periphery and neck

Stable basket upon subsequent coil deployment

Ability to concentrically fill

No prepping or steaming

HydroFrame provides greater volume fill than other 10 system framing coils

Hydrogel at the neck has been shown to reduce recurrence rates¹

1. H.J. Cloft, for the HEAL Investigators. HydroCoil for Endovascular Aneurysm Occlusion (HEAL) Study: 3-6 Month Angiographic Follow-Up Results. AJNR AM J Neuroradiology; 28:152-154, Jan 2007 (197 aneurysms; 135 follow-up cases)

INDICATIONS FOR USE:

The HydroCoil® Embolic System (HES) is intended for the endovascular embolization of intracranial aneurysms and other neurovascular abnormalities such as arteriovenous malformations and arteriovenous fistulae. The HES is also intended for vascular occlusion of blood vessels within the neurovascular system to permanently obstruct blood flow to an aneurysm or other vascular malformation and for arterial and venous embolizations in the peripheral vasculature.

The device should only be used by physicians who have undergone pre-clinical training in all aspects of HES procedures as prescribed by MicroVention.



HydroFill[®] Advanced Helical Coils

For filling

Recommended 2-Tip Marker Microcatheter
≥.0165" Lumen
(Stretch-Resistant)

Reference No.	Diameter (mm)	Length (cm)
100206HFIL-V	2	6
100304HFIL-V	3	6
100408HFIL-V	4	8
100410HFIL-V	4	10
100510HFIL-V	5	10
100515HFIL-V	5	15
100615HFIL-V	6	15
100620HFIL-V	6	20
100720HFIL-V	7	20
100820HFIL-V	8	20
100930HFIL-V	9	30
101030HFIL-V	10	30
101230HFIL-V	12	30



Features

No Steaming or Preparation of Coil Required

Longer Working Time

Volume Fill

Hydrogel-Based Coil System

Benefits

Saves time and work of preparing coil

Microcatheters ≥ .0165"
– 30 minutes for 2mm - 4mm
– 10 minutes for 5mm - 12mm
Microcatheters ≥ .021"
– 30 minutes for all sizes

2mm - 4mm .016" expanded diameter
5mm - 12mm .018" expanded diameter

Clinical benefits of hydrogel, proven in numerous clinical studies, including HELPS

INDICATIONS FOR USE:

The HydroCoil[®] Embolic System (HES) is intended for the endovascular embolization of intracranial aneurysms and other neurovascular abnormalities such as arteriovenous malformations and arteriovenous fistulae. The HES is also intended for vascular occlusion of blood vessels within the neurovascular system to permanently obstruct blood flow to an aneurysm or other vascular malformation and for arterial and venous embolizations in the peripheral vasculature.

The device should only be used by physicians who have undergone pre-clinical training in all aspects of HES procedures as prescribed by MicroVention.



HydroSoft® Advanced Helical Coils

For filling and finishing

10 Coil Size

Recommended 2-Tip Marker Microcatheter
≥.0165" Lumen
(Stretch-Resistant)

Reference No.	Diameter (mm)	Length (cm)
100152H2HS-V	1.5	2
100154H2HS-V	1.5	4
100201H2HS-V	2	1
100202H2HS-V	2	2
100203H2HS-V	2	3
100204H2HS-V	2	4
100206H2HS-V	2	6
100208H2HS-V	2	8
100254H2HS-V	2.5	4
100256H2HS-V	2.5	6
100304H2HS-V	3	4
100306H2HS-V	3	6
100308H2HS-V	3	8
100310H2HS-V	3	10
100404H2HS-V	4	4
100406H2HS-V	4	6
100408H2HS-V	4	8
100410H2HS-V	4	10
100506H2HS-V	5	6
100508H2HS-V	5	8
100510H2HS-V	5	10
100515H2HS-V	5	15
100520H2HS-V	5	20
100608H2HS-V	6	8
100610H2HS-V	6	10
100615H2HS-V	6	15

Features

Hydrogel on the Inside

Microcatheter Compatibility

Stretch-Resistant

Benefits

No prep, no steaming

Provides the softness of a platinum finishing coil

30 minute working time and compatible with .0165" - .021" microcatheters

Facilitates repositioning



INDICATIONS FOR USE:

The HydroCoil® Embolic System (HES) is intended for the endovascular embolization of intracranial aneurysms and other neurovascular abnormalities such as arteriovenous malformations and arteriovenous fistulae. The HES is also intended for vascular occlusion of blood vessels within the neurovascular system to permanently obstruct blood flow to an aneurysm or other vascular malformation and for arterial and venous embolizations in the peripheral vasculature.

The device should only be used by physicians who have undergone pre-clinical training in all aspects of HES procedures as prescribed by MicroVention.

V-Trak[®] Delivery Pusher

Features

No Preparation

More Flexible Delivery Pusher

Softer, Shorter Detachment Zone

Pusher Stability

Coil Exit Markers

Benefits

Simplifies operation; reduces procedure time

Minimizes microcatheter movement; enhances coil deliverability

Superior coil placement ability; reduces microcatheter tip deflection

Solid mandrel pusher offers more kink-resistance and improved coil advancement

Indicates coil is approaching microcatheter tip, reducing fluoroscopy time



V-Grip[®] Detachment Controller

Features

Self-contained Integrated Power Supply

Rapid Coil Detachment

Sterile, Disposable Design

Ergonomic Design

Visual and Audible Indicators

Benefits

Ready to use; no accessories, no patient grounding, no connecting cables or additional batteries

Single person operation; simple one-button coil detachment in 0.75 seconds for maximum efficiency and speed

Reduces set-up and procedure time

Lightweight, no device preparation, and easily identifiable

Provides instant notification that device is ready for use

V-Grip[®] Detachment Controller

For use with the V-Trak[®] Delivery System

5 Detachment Controllers Per Box

Reference No.

VG501



Chaperon® Guiding Catheter System

Guiding Catheter System

5F Neuro Guiding Catheter / System					6F Neuro Guiding Catheter / System				
Product Code	Type	OD Inner/Outer (French)	Shape	ID (inches)	Product Code	Type	OD Inner/Outer (French)	Shape	ID (inches)
GC595STJB	System	4/5	STR/JB2	0.059	GC695STJB	System	5/6	STR/JB2	0.071
GC595STVT	System	4/5	STR/VTR	0.059	GC695STVT	System	5/6	STR/VTR	0.071
GC595STSI	System	4/5	STR/SIM	0.059	GC695STSI	System	5/6	STR/SIM	0.071
GC595M2JB	System	4/5	MP2/JB2	0.059	GC695M2JB	System	5/6	MP2/JB2	0.071
GC595M2SI	System	4/5	MP2/SIM	0.059	GC695M2SI	System	5/6	MP2/SIM	0.071
GC595M2VT	System	4/5	MP2/VTR	0.059	GC695M2VT	System	5/6	MP2/VTR	0.071
					GC695BUJB	System	5/6	BUR/JB2	0.071
					GC695BUVT	System	5/6	BUR/VTR	0.071

Guiding Catheter Shapes



STR

MP2

BUR

Inner Catheter Shapes



VTR

JB2

SIM2

Features

Inner Catheter Combined System

Largest ID

Flat Braid Reinforced Shaft

Benefits

Atraumatic access and deeper positioning for more support with high maximum injection pressure (**4F**-750 PSI **5F**-1000 PSI)

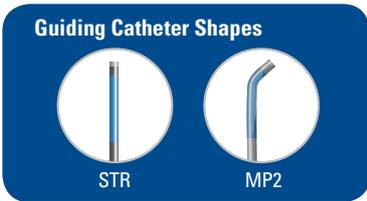
Enhanced work space for multiple catheter usage (**5F**-0.059" **6F**-0.071")

Increased kink resistance and greater torque control

INDICATIONS FOR USE:

The Chaperon® Guiding Catheter System and Chaperon® Guiding Catheter are intended for general intravascular use, including the neuro and peripheral vasculature. The Chaperon Guiding Catheter System and Chaperon Guiding Catheter can be used to facilitate introduction of diagnostic or therapeutic devices. The Chaperon Guiding Catheter System and Chaperon Guiding Catheter are not intended for use in coronary arteries.

Chaperon [®] Guiding Catheter Single					Chaperon [®] Guiding Catheter Single				
Guiding Catheter / Single					Guiding Catheter / Single				
5F Neuro Guiding Catheter / Single					6F Neuro Guiding Catheter / Single				
Product Code	Type	OD Outer (French)	Shape	ID (inches)	Product Code	Type	OD Outer (French)	Shape	ID (inches)
GC595ST	Single	5	STR	0.059	GC695ST	Single	6	STR	0.071
GC595M2	Single	5	MP2	0.059	GC695M2	Single	6	MP2	0.071



Features

Largest ID

Flat Braid Reinforced Shaft

Proprietary Polyester for Outer Material

Benefits

Enhanced work space for multiple catheter usage (5F-0.059" 6F-0.071")

Increased kink resistance and greater torque control

Provides better support

INDICATIONS FOR USE:

The Chaperon[®] Guiding Catheter System and Chaperon[®] Guiding Catheter are intended for general intravascular use, including the neuro and peripheral vasculature. The Chaperon Guiding Catheter System and Chaperon Guiding Catheter can be used to facilitate introduction of diagnostic or therapeutic devices. The Chaperon Guiding Catheter System and Chaperon Guiding Catheter are not intended for use in coronary arteries.

SOFIA® Distal Access Catheter Soft Torqueable Catheter Optimized For Intracranial Access

1 per box and includes shaping mandrel and introducer sheath

Product Code	Catheter Size (French)	Proximal OD (inch/mm)	Distal OD (inch/mm)	ID (inch)	Working Length (cm)	Distal Length (cm)	Distal Tip Shape
DA5115ST	5F	0.068 / 1.7	0.068 / 1.7	0.055	115	17	STRAIGHT
DA5125ST	5F	0.068 / 1.7	0.068 / 1.7	0.055	125	17	STRAIGHT
DA6165ST	6F	0.0825 / 2.1	0.0825 / 2.1	0.070	115	19	STRAIGHT

Features

Exceptionally Soft Distal Shaft

Low Profile

Steam Shapeable Tip and Torqueable Shaft

Enhanced Kink Resistance

Benefits

Easier navigation in tortuous vessels

Compatible with 6F .070 inch ID guide catheter systems

Steerable around bifurcations

Easy to handle with 1:1 push/pull control

INDICATIONS FOR USE:

The SOFIA® Catheter is indicated for general intravascular use, including the neuro and peripheral vasculature. The SOFIA® Catheter can be used to facilitate introduction of diagnostic or therapeutic agents. The SOFIA® Catheter is not intended for use in coronary arteries. Moreover, the SOFIA® Catheter is intended for use in removal/aspiration of emboli and thrombi from selected blood vessels in the arterial system, including the peripheral and neuro vasculatures.

SOFIA[®] Plus Large Lumen Aspiration Catheter

Soft Torqueable Catheter Optimized For Intracranial Access

1 per box / Includes shaping mandrel and introducer sheath

Product Code	Catheter Size (French)	Proximal OD (inch/mm)	Distal OD (inch/mm)	ID (inch)	Working Length (cm)	Distal Length (cm)	Proximal Length (cm)	Distal Tip Shape
DA6125ST	6F	0.0825/2.1	0.0815/2.1	0.070	125	19	106	Straight
DA6131ST	6F	0.0825/2.1	0.0815/2.1	0.070	131	19	112	Straight

Features

0.070 Inch Lumen

Exceptionally Soft Distal Tip

Steam Shapeable Tip and Torqueable Shaft

Enhanced Kink Resistance

Benefits

Increased aspiration capabilities

Allows smooth bypass of the ophthalmic artery

Steerable in challenging anatomy

Maintains lumen integrity even in tortuous vessels

INDICATIONS FOR USE:

SOFIA[®] AND SOFIA PLUS DISTAL ACCESS CATHETER

The SOFIA[®] Catheter is indicated for general intravascular use, including the neuro and peripheral vasculature. The SOFIA[®] Catheter can be used to facilitate introduction of diagnostic or therapeutic agents. The SOFIA[®] Catheter is not intended for use in coronary arteries. Moreover, the SOFIA[®] Catheter is intended for use in removal/aspiration of emboli and thrombi from selected blood vessels in the arterial system, including the peripheral and neuro vasculatures.

Traxcess® Guidewire and Docking Wire

Guidewire with Hydrophilic Coating

Guidewire (0.014")

One unit per box / Guidewires include shaping mandrel, insertion tool, and torque device

Product Name	Product Code	Description	Tip Shape	Total/Distal Length (cm)	Proximal/Distal OD (inches)	Shapeable Tip Length (cm)
Traxcess 14	GW1420040	Soft	Shapeable	200 / 40	0.014 / 0.012	1.4
Traxcess 14 <i>SELECT</i>	GW1420040S	Soft	Shapeable	200 / 40	0.014 / 0.012	1.4
Traxcess 14EX	GW1420040X	Support	Shapeable	200 / 40	0.014 / 0.012	1.4
Docking Wire (0.014")						
Traxcess Docking Wire	GW14100EX	Docking	—	115	0.014	—



Features

- Nitinol Property Control Technology
- Hybrid Guidewire Core Construction
- Terumo Glide Technology™

Benefits

- Excellent tip shapability and shape retention
- 1:1 torque transmission and direct wire control
- Enhanced durability and lubricity in hydrophilic coating



Features

- Compatible with Traxcess Guidewires
- Simple Docking Wire System

Benefits

- Total length is 313cm when combined with the Traxcess Guidewire (2cm overlap)
- Easily convert the Traxcess Guidewire into exchange length

INDICATIONS FOR USE:

The Traxcess® 14 Guidewire is intended for general intravascular use, including the neuro and peripheral vasculature. The guidewire can be steered to facilitate the selective placement of diagnostic or therapeutic catheters. The device is not intended for use in coronary arteries. There are no known contraindications.

Headway[®] Microcatheter

Microcatheter with Hydrophilic Coating

One unit per box and includes shaping mandrel and introducer sheath

Product Name	Description	Product Code	ID (inches)	Tip Shape	Usable Length (cm)	OD Prox./Distal (French)	Tip Markers
Headway17 Advanced 'Soft'	Straight	MC172150S	0.017	STR	150	2.4 / 1.7	2
Headway17 Advanced	Straight	MC172150SX	0.017	STR	150	2.4 / 1.7	2
Headway17 Advanced	Pre-shaped tip 45	MC17215045X	0.017	45	150	2.4 / 1.7	2
Headway17 Advanced	Pre-shaped tip 90	MC17215090X	0.017	90	150	2.4 / 1.7	2
Headway17 Advanced	Pre-shaped tip J	MC172150JX	0.017	J	150	2.4 / 1.7	2
Headway21	Straight	MC212150S	0.021	STR	150	2.5 / 2.0	2
Headway21	Straight	MC212156S	0.021	STR	156	2.5 / 2.0	2
Headway27	Straight	MC272150S	0.027	STR	150	3.1 / 2.6	2
Headway27	Straight	MC272156S	0.027	STR	156	3.1 / 2.6	2

Product

Headway17 Advanced

0.017 inch ID microcatheter with atraumatic 1.7F distal tip with enhanced catheter control, superior shapability and shape retention. An enhanced distal shaft provides excellent support for coiling while the segmented design ensures smooth trackability

Headway17 Advanced 'Soft'

0.017 inch ID microcatheter with a softer distal shaft to provide more sensitivity to coil deployment force

Headway21

0.021 inch ID microcatheter with a 2.0F rounded distal tip, optimized for stent delivery and the ability to track through tortuous anatomy

Headway27

0.027 inch ID microcatheter with 2.6F distal tip diameter, designed specifically for flow diverting stent delivery

Benefits

INDICATIONS FOR USE:

The Headway[®] Microcatheter is intended for general intravascular use, including the peripheral, coronary and neuro vasculature for the infusion of diagnostic agents, such as contrast media, and therapeutic agents, such as occlusion coils.



Innovative Catheter Technology

Headway® Duo Microcatheter

Microcatheter with Hydrophilic Coating

1 per box; includes shaping mandrel and introducer sheath

Product Name	Product Code	ID Body/Tip (inches)	Tip Shape	Usable Length (cm)	Distal Length (cm)	OD Prox./Dist. (French)	Tip Markers
Headway Duo, 156cm	MC162156S	0.0165 / 0.0165	STR	156	9	2.1 / 1.6	2
Headway Duo, 167cm	MC162167S	0.0165 / 0.013	STR	167	9	2.1 / 1.3	1

Features

Hybrid Braid/Coil Design

Benefits

Tight pitch coil provides lumen integrity and bending flexibility
 Proximal braid provides firmness and a torqueable catheter body
 Will not ovalize or kink

Small OD, Large ID

0.0165" body ID microcatheter with low profile distal tip
 156cm Headway® Duo microcatheter compatible with coils and ≤0.014" guidewires
 167cm Headway® Duo microcatheter compatible with ≤0.014"/0.012" (proximal/distal) guidewires

Superior Trackability

True 1:1 push/pull while tracking through tortuous anatomy

Liquid Embolic Compatibility

Compatible with Onyx™ Liquid Embolic and nBCA
 High burst strength
 Long length allows distal lesion access

Soft Distal Tip

Smooth, atraumatic tracking
 High sensitivity to coil deployment force
 Excellent tip "painting" ability

INDICATIONS FOR USE:

The Headway® Duo Microcatheter is intended for general intravascular use, including the peripheral and coronary vasculature for the infusion of diagnostic agents, such as contrast media, and therapeutic agents, such as embolization materials. The Headway® Duo Microcatheter is intended for neurovascular use, for the infusion of diagnostic agents, such as contrast media, and therapeutic agents that have been cleared or approved for use in the neurovasculature and are compatible with the inner diameter of the Headway® Duo Microcatheter.

Onyx is a trademark of Covidien.

Scepter C® Occlusion Balloon Catheter

Compliant Balloon Catheter



Product Code	Description	Balloon Diameter (mm)	Balloon Length (mm)	Distal Tip Length (mm)
1 balloon catheter per box				
BC0410C	Compliant Occlusion Balloon 4.0mm	4.0	10	5
BC0415C	Compliant Occlusion Balloon 4.0mm	4.0	15	5
BC0420C	Compliant Occlusion Balloon 4.0mm	4.0	20	5

Scepter XC® Occlusion Balloon Catheter

X-tra Compliant Balloon Catheter



Product Code	Description	Balloon Diameter (mm)	Balloon Length (mm)	Distal Tip Length (mm)
1 balloon catheter per box				
BC0411XC	X-tra Compliant Occlusion Balloon 4.0mm x 11mm	4.0	11	5

Features

14 Wire Compatible

Provides more choices of guidewire (Traxcess® docking wire compatible)
Improves trackability and stability with better performance of the wire

Hydrophilic Coating on the Balloon

Significantly improves trackability
Enables use of longer balloons without compromising trackability

Soft & Long Tip

Improves balloon stability and trackability

Low Profile

Ensures compatibility with double catheter technique in 6F guide
Improves trackability

Distal Tip Marker

Positive identification of distal tip location

INDICATIONS FOR USE:

The Scepter C® and Scepter XC® Occlusion Balloon Catheters are intended for use in the peripheral and neuro vasculature where temporary occlusion is desired. The balloon catheters provide temporary vascular occlusion which is useful in selectively stopping or controlling blood flow. The balloon catheters also offer balloon assisted embolization of intracranial aneurysms. For use in the peripheral vasculature for the infusion of diagnostic agents, such as contrast media, and therapeutic agents such as embolization materials. For neurovascular use for the infusion of diagnostic agents such as contrast media, and therapeutic agents, such as embolization materials, that have been approved or cleared for use in the neurovasculature and are compatible with the inner diameter of the Scepter C/XC Balloon Catheter.

LVIS[®] Device

Intraluminal Support Device

Low-profile Visualized Intraluminal Support

One unit per box

Product Code	Unconstrained Diameter x Total Length (mm)	Total Length*/Working Length in Different Vessel Diameters (mm)							
		2.0mm	2.5mm	3.0mm	3.5mm	4.0mm	4.5mm	5.0mm	5.5mm
212517-CAS	3.5 x 17	25 / 21	23 / 19	20 / 16	17 / 13				
212525-CAS	3.5 x 22	35 / 31	32 / 28	27 / 23	22 / 18				
213015-CAS	4.5 x 18			28 / 24	26 / 22	22 / 18	18 / 14		
213025-CAS	4.5 x 23			40 / 36	36 / 32	31 / 27	23 / 19		
213041-CAS	4.5 x 32			57 / 53	52 / 48	44 / 40	32 / 28		
214035-CAS	5.5 x 30					51 / 47	45 / 41	39 / 35	30 / 26
214049-CAS	5.5 x 33					58 / 54	51 / 47	43 / 39	33 / 29

Notes: Compatible Microcatheter: Headway[®]21
 *Total Length (includes flared ends) = Working Length + 4mm

Features

Woven braid device made with 16 passes of a single nitinol wire

1mm compliant cell design

Radiopaque markers at both ends and two radiopaque helical strands along the length of the stent

Up to 75% retractable

Benefits

Up to 22% metal coverage provides effective scaffold across aneurysm neck and optimal vessel wall apposition

Allows for easier passage of microcatheters

Enhanced radiopacity helps ensure optimal deployment and visibility

Improves accuracy in targeting the landing zone during deployment



Intraluminal Support Device

LVIS® Jr. Device

Intraluminal Support Device

Low-profile Visualized Intraluminal Support

One unit per box

Product Code	Unconstrained Diameter x Total Length (mm)	Total Length* / Working Length in Different Vessel Diameters (mm)			
		2.0mm	2.5mm	3.0mm	3.5mm
172010-CASJ	2.5 x 13	14 / 10	13 / 9		
172014-CASJ	2.5 x 17	18 / 14	17 / 13		
172020-CASJ	2.5 x 23	24 / 20	23 / 19		
172032-CASJ	2.5 x 34	36 / 32	34 / 30		
172516-CASJ	3.5 x 18		20 / 16	19 / 15	18 / 14
172524-CASJ	3.5 x 23		27 / 23	25 / 21	23 / 19
172530-CASJ	3.5 x 28		34 / 30	32 / 28	28 / 24
172537-CASJ	3.5 x 33		40 / 36	37 / 33	33 / 29

Notes: Compatible Microcatheter: Headway®17 or Scepter Occlusion Balloon

*Total Length (includes flared ends) = Working Length + 4mm

Features

Compatible with Headway®17 Advanced microcatheter

Deliverable through Scepter Occlusion Balloon Catheter

1.5mm compliant cell design

Up to 75% retractable

Benefits

Low profile 1.7F delivery system improves navigability

Post-balloon stenting provides new method of stent utilization

Allows for easier passage of microcatheters

Improves accuracy in targeting the landing zone during deployment

INDICATIONS FOR USE:

The LVIS® Device is intended for use with embolic coils for the treatment of intracranial neurovascular diseases.



Flow Re-Direction Endoluminal Device

Flow Re-Direction Endoluminal Device

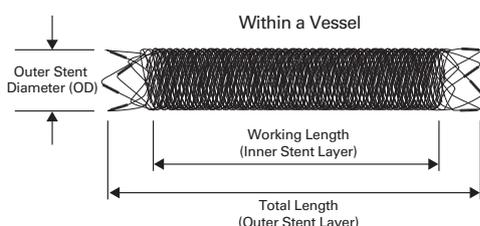
FRED® System

Flow Re-Direction Endoluminal Device

One unit per box

Fully Open Implant Diameter	Cross-Reference Old Product Code	New Product Code	*Working Length (mm) / Total Length (mm) at Target Vessel Diameters (mm)						Crimped Length Inside Microcatheter	% Foreshortening At Fully Open Implant Diameter
			3.0	3.5	4.0	4.5	5.0	5.5		
3.5	FRED3505	FRED3507	10 / 16	7 / 13					21	39
3.5	N/A	FRED3511	17 / 22	11 / 17					32	47
3.5	FRED3525	FRED3516	24 / 30	16 / 22					44	49
3.5	N/A	FRED3524	34 / 40	24 / 31					61	48
3.5	N/A	FRED3536	49 / 54	36 / 40					83	52
4.0	N/A	FRED4007		10 / 16	7 / 13				24	42
4.0	FRED4015	FRED4012		18 / 24	12 / 18				36	49
4.0	FRED4025	FRED4017		26 / 31	17 / 23				49	53
4.0	N/A	FRED4026		37 / 43	26 / 32				69	53
4.0	N/A	FRED4038		53 / 58	38 / 44				94	55
4.5	N/A	FRED4508			11 / 18	8 / 15			27	43
4.5	FRED4515	FRED4513			19 / 26	13 / 20			41	51
4.5	FRED4525	FRED4518			27 / 34	18 / 25			55	55
4.5	N/A	FRED4528			39 / 45	28 / 34			77	56
4.5	N/A	FRED4539			56 / 62	39 / 45			105	57
5.0	N/A	FRED5009				12 / 18	9 / 15		28	44
5.0	FRED5015	FRED5014				20 / 26	14 / 21		44	53
5.0	FRED5025	FRED5019				28 / 35	19 / 26		60	56
5.0	N/A	FRED5029				41 / 48	29 / 36		84	57
5.5	FRED5515	FRED5514					22 / 28	14 / 22	48	54
5.5	FRED5535	FRED5526					38 / 46	26 / 32	83	59

* Outer device total length (including flared ends) and inner device working length (marked by helical strands), constrained in vessel.



INDICATIONS FOR USE:

The FRED® System is intended for endovascular embolization of intracranial neurovascular aneurysms. The FRED® System may also be used with embolic coils for the treatment of intracranial neurovascular lesions.

Features

Integrated Dual-Layer Coverage

Braided Self-Expanding Nickel Titanium, Paired-Stent Design

Radiopaque Distal Wire Tip, Proximal and Distal Markers, and Interweaved Working Length Helical Strands

Benefits

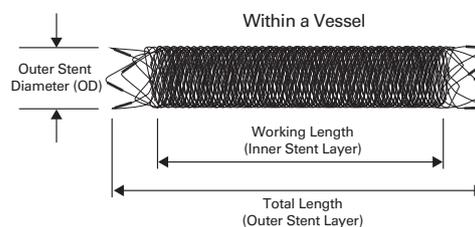
16-wire outer stent with 48-wire inner stent for enhanced radial force
Inner stent provides high percentage metal surface area for flow-redirection

Enables simultaneous, dynamic push/pull dual-stent deployment with single operator ease of use
Easy stent opening and superb vessel apposition, with partial resheathability

Full-stent length fluoroscopic visualization

FRED[®] Jr. System						
Flow Re-Direction Endoluminal Device						
One unit per box						
Fully Open Implant Diameter	Product Code	*Working Length (mm) / Total Length (mm) at Target Vessel Diameters (mm)			Crimped Length Inside Microcatheter	% Foreshortening At Fully Open Implant Diameter
		2.0	2.5	3.0		
2.5	FREDJR2508	11 / 15	8 / 13		18	27
2.5	FREDJR2513	17 / 21	13 / 18		26	33
2.5	FREDJR2520	28 / 32	20 / 25		40	38
2.5	FREDJR2526	35 / 38	26 / 30		49	39
3.0	FREDJR3009		12 / 16	9 / 13	20	32
3.0	FREDJR3014		19 / 23	14 / 19	30	38
3.0	FREDJR3021		29 / 34	21 / 27	46	42
3.0	FREDJR3027		37 / 41	27 / 32	56	44

* Outer device total length (including flared ends) and inner device working length (marked by helical strands), constrained in vessel.



INDICATIONS FOR USE:

The FRED[®] Jr. System is intended for endovascular embolization of intracranial neurovascular aneurysms. The FRED[®] Jr. System may also be used with embolic coils for the treatment of intracranial neurovascular lesions.



Retrieval Device

ERIC® Retrieval Device

Embolus Retriever with Interlinked Cages

Product Code	Product Name	# of Spheres	Diameter (mm)	Working Length (mm)
1 per box and includes introducer sheath				
ER173015	ERIC 3	3	3	15
ER174024	ERIC 4	4	4	24
ER174030	ERIC 4	5	4	30
ER176039	ERIC 6	5	6	39
ER176044	ERIC 6	5	6	44

Features

Interlinked Cage Design

Headway17 Advanced Compatible

Benefits

Allows immediate clot-device integration at deployment
 Independent cages that conform to tight curves to retain clot
 Minimum contact to the vessel wall for atraumatic retrieval

Improves access in the tortuous anatomy
 Leaves more space for more suction with a small outer profile
 Working length can be adjusted by re-sheathing

INDICATIONS FOR USE:

The ERIC® Retrieval Device is intended for use in the revascularization of acute ischemic stroke caused by the intracranial occlusive vessels of patients who are not eligible for intravenous tissue plasminogen activator, IV tPA, or who fail IV tPA therapy.

CASPER[®] RX Carotid Artery Stent

1 per box

Product Code	Unconstrained Dimensions			Implanted Dimensions			
	Diameter (mm)	Dual Layer Length (mm)	Overall Length (mm)	1mm < Unconstrained Diameter		2mm < Unconstrained Diameter	
				Dual Layer Length (mm)	Overall Length (mm)	Dual Layer Length (mm)	Overall Length (mm)
CPR-0520-143RX	5	20	25	20	33	22	35
CPR-0530-143RX	5	30	37	35	47	38	52
CPR-0540-143RX	5	40	47	45	59	52	64
CPR-0616-143RX	6	16	22	20	32	23	35
CPR-0625-143RX	6	25	33	30	44	33	48
CPR-0630-143RX	6	30	40	40	53	43	58
CPR-0718-143RX	7	18	25	23	35	26	38
CPR-0725-143RX	7	25	35	30	47	36	52
CPR-0730-143RX	7	30	40	40	53	44	60
CPR-0820-143RX	8	20	25	25	36	27	40
CPR-0825-143RX	8	25	35	30	49	38	54
CPR-0830-143RX	8	30	40	40	55	45	61
CPR-0840-143RX	8	40	47	50	67	60	75
CPR-0920-143RX	9	20	33	30	45	33	48
CPR-0930-143RX	9	30	40	40	55	45	60
CPR-1020-143RX	10	20	35	30	45	35	50
CPR-1030-143RX	10	30	43	40	55	45	60

Features

Smallest stent pore size

5F Rx delivery system for all stent sizes

Self-tapering braided stent design

Stent can be recaptured after partial deployment

Closed cell stent with wall apposition and flexibility of an open cell design

Benefits

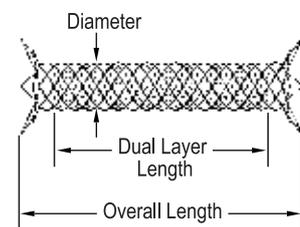
Tacks down/contains plaque reducing embolic release

Very low profile

Optimize inventory with less model configurations

Improved accuracy of stent placement/landing zone

Stent conforms and adapts to all carotid anatomy



INDICATIONS FOR USE:

The CASPER[®] Carotid Stent is indicated for use in patients with carotid arterial atherosclerotic disease.



Liquid Embolic System

PHIL® Liquid Embolic System			
Non-adhesive Liquid Embolic System			
Product Code	Concentration	Viscosity	Content Per Syringe
1 pre-filled syringe of PHIL, 1 pre-filled syringe of DMSO and microcatheter hub adaptors*			
LEN10250	25%	Low	1mL
LEN10300	30%	Medium	1mL
LEN10350	35%	High	1mL

*Available for Headway® DUO Microcatheter, Headway®17 Microcatheter, Scepter C® and Scepter XC® Balloon Occlusion Catheters and BALT® SONIC Microcatheter.

Features

3 Concentrations Available

Pre-loaded Syringes

Iodine Bonded Radiopacifier

High Volume of Embolic Precipitate

Benefits

To address different clinical needs involving embolization of low flow/high flow lesions or a need for distal/proximal penetration

No preparation required, ready to use

Homogeneous radiopacity
No need to shake
No added metal for minimal artifact

More embolic capacity with less DMSO agent

Microcatheter Compatibility

PHIL® Liquid Embolic System must be used with DMSO compatible catheters such as Headway® DUO Microcatheter, Headway®17 Microcatheter or Scepter Occlusion Balloon.

Product Name	Product Codes	Description	Working Length (cm)	Dead Space (cc)	Dead Space with Adaptor (cc)	OD Prox./Dist. (French)	Tip Markers
Scepter C®	BC0410C BC0415C BC0420C	Compliant Occlusion Balloon	150	0.44	0.23	2.8/2.1	3
Scepter XC®	BC0411XC	X-tra Compliant Occlusion Balloon	150	0.44	0.23	2.8/2.1	3
Headway® 17	MC172150S MC172150SX	Headway 17 Microcatheter	150	0.44	0.26	2.4/1.7	2
Headway® Duo 156cm	MC162156S	Headway Duo Microcatheter	156	0.34	0.24	2.1/1.6	2
Headway® Duo 167cm	MC162167S	Headway Duo Microcatheter	167	0.35	0.25	2.1/1.3	1

INDICATIONS FOR USE:

The PHIL® Device is intended for use in the embolization of lesions in the peripheral and neurovasculature, including arteriovenous malformations and hypervascular tumors.

Ordering Information

To place an order, contact a MicroVention Customer Service Representative at:

Ordering Information Customer Service

MicroVention, Inc.
Attn: Customer Service
1311 Valencia Avenue
Tustin, CA 92780

N. Am. Toll Free	(800) 990 8368
Local	(714) 247 8000
Customer Service Fax	(714) 247 8007
Web	www.microvention.com

Please call customer service at 714 247 8000 to be connected with your local representative.

MicroVention Locations Tustin Worldwide Headquarters and Europe

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PH 1.800.990.8368

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F +44 (0) 191 258 5999

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MicroVention Deutschland GmbH
Hildebrandtstr. 4 F
D-40215 Düsseldorf
Germany
PH +49 211 210 798-0
F +49 211 210 798-29

Ordering Information:

Customer Service Hours are 7:00 am - 4:30 pm PST. Orders may be placed by phone, fax or mail. If mailing, please mark Attn: Customer Service. All prices and product specifications are subject to change at the discretion of MicroVention, Inc. MicroVention, Inc. warrants its products to be free from defect in materials and workmanship.

Shipping Terms:

Orders will be shipped FOB shipping point using Federal Express Standard Overnight service, or comparable, unless otherwise requested. All freight charges are prepaid and added to invoice.

Payment Terms:

Net 30 days.

Returned Goods Policy:

Authorization is required for all returns.

1. Request Returned Goods Authorization (RGA) number from Customer Service.
2. Once the authorization number has been obtained, Customer Service will provide all the information necessary for a proper return.
3. Return product to:
MicroVention, Inc.
RGA # _____
1311 Valencia Avenue
Tustin, CA 92780

MicroVention, Inc. will accept the return of any standard catalog item under the following conditions:

- Merchandise processed or shipped in error by MicroVention, Inc. – *Full Credit*
- Product failure due to defect in materials or workmanship. – *Full Credit or Replacement at no charge.*