



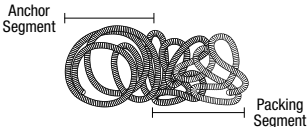



Large Volume System

.025" + High-Flow Microcatheter Compatible

Ruby® Coil					
Ruby Standard Frame			Ruby Soft Fill		
  <ul style="list-style-type: none"> Initial coil in large aneurysms and vessels Size 1:1 with aneurysm or vessel diameter 			  <ul style="list-style-type: none"> Fill coil for aneurysms and vessels Comprehensive coil for small vessels 		
Catalog Number	Secondary Diameter (mm)	Length (cm)	Catalog Number	Secondary Diameter (mm)	Length (cm)
RBYP0305		5	RBYP0201		1
RBYP0312	3	12	RBYP0202	2	2
RBYP0320		20	RBYP0204		4
RBYP0410		10	RBYP0305	3	5
RBYP0420	4	20	RBYP0315		15
RBYP0435		35	RBYP0406	4	6
RBYP0512		12	RBYP0415	4	15
RBYP0530	5	30	RBYP0620	6	20
RBYP0620		20	RBYP0630		30
RBYP0630	6	30	RBYP0835	8	35
RBYP0725	7	25	RBYP0860		60
RBYP0825		25	RBYP1650	16	50
RBYP0840	8	40	RBYP2060	20	60
RBYP1035	10	35			
RBYP1260	12	60			
RBYP1460	14	60			
RBYP1660	16	60			
RBYP1857	18	60			
RBYP2060	20	60			
RBYP2457	24	60			
RBYP2860	28	60			
RBYP3260	32	60			
RBYP3660	36	60			
RBYP4060	40	60			




POD®			
High-Flow Vessel Sacrifice			
 <ul style="list-style-type: none"> Distal anchor segment to minimize coil migration Sized 1:1 with vessel diameter 			
Catalog Number	Product	Target Vessel (mm)	Length (cm)
RBYP003	POD3	3	20
RBYP004	POD4	3.25-4	30
RBYP005	POD5	4-5	30
RBYP006	POD6	5-6	50
RBYP008	POD8	6-8	60
RBYP010	POD10	8-10	60
RBYP012	POD12	10-12	60
RBYP014	POD14	12-14	60

Packing Coil		
Pack behind Ruby or POD Backstop		
 <ul style="list-style-type: none"> Space filling "liquid metal" coil Designed to conform to vessel diameter 		
Catalog Number	Product	Length (cm)
RBYP00J5	Packing Coil 5 cm	5
RBYP00J15	Packing Coil 15 cm	15
RBYP00J30	Packing Coil 30 cm	30
RBYP00J45	Packing Coil 45 cm	45
RBYP00J60	Packing Coil 60 cm	60

LANTERN® Microcatheter			
High-Flow Optimized for Coil Delivery			
Catalog Number	Tip Shape	Length (cm)	ID (in.)
PXSLIMLAN115STR	Straight		
PXSLIMLAN115T45	45°	115	.025
PXSLIMLAN115T90	90°		
PXSLIMLAN135STR	Straight		
PXSLIMLAN135T45	45°	135	.025
PXSLIMLAN135T90	90°		
PXSLIMLAN150STR	Straight		
PXSLIMLAN150T45	45°	150	.025
PXSLIMLAN150T90	90°		
PXSLIMLAN160STR	Straight		
PXSLIMLAN160T45	45°	160	.025
PXSLIMLAN160T90	90°		

LP System

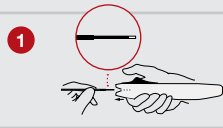
.0165" - .021" Low Profile Microcatheter Compatible


Ruby Coil LP			Packing Coil LP		
  <ul style="list-style-type: none"> Initial coil in small vessels Available in sizes as small as 1 mm in diameter 			 <ul style="list-style-type: none"> Space filling "liquid metal" coil Designed to conform to vessel diameter 		
Catalog Number	Secondary Diameter (mm)	Length (cm)	Catalog Number	Product	Length (cm)
RBYP0102		2	RBYPCLP03	Packing Coil LP 3 cm	3
RBYP0105	1	5	RBYPCLP06	Packing Coil LP 6 cm	6
RBYP0202		2	RBYPCLP10	Packing Coil LP 10 cm	10
RBYP0204	2	4	RBYPCLP15	Packing Coil LP 15 cm	15
RBYP0210		10	RBYPCLP30	Packing Coil LP 30 cm	30
RBYP0304		4	RBYPCLP45	Packing Coil LP 45 cm	45
RBYP0310	3	10	RBYPCLP60	Packing Coil LP 60 cm	60
RBYP0315		15			
RBYP0406		6			
RBYP0415	4	15			
RBYP0430		30			
RBYP0510	5	10			
RBYP0530		30			
RBYP0610		10			
RBYP0630	6	30			
RBYP0740	7	40			
RBYP0860	8	60			

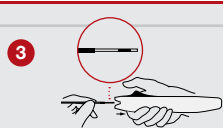
Large Volume and LP System Detachment Handle Steps

One-Click Instant Detachment

Catalog Number	Product
RH1	Detachment Handle
RLPH1	LP System Detachment Handle

- 

Insert proximal end into detachment handle until it hubs out.
- 

Pull back trigger of detachment handle until audible click is heard.
- 

Release trigger and remove handle. Inspect proximal end of pusher to confirm black stripe has completely separated into two sections.



RUBY® Coil System – Indication for Use

The RUBY Coil System is indicated for arterial and venous embolizations in the peripheral vasculature.

Contraindications There are no known contraindications.

Warnings The RUBY Coil System should only be used by physicians who have received appropriate training in interventional techniques.

Precautions • The device is intended for single use only. Do not resterilize or reuse. Resterilization and/or reuse may compromise the structural integrity of the device or increase the risk of contamination or infection leading to device failure and/or cross-infection and potential patient injury, illness, or death. • Do not use kinked or damaged devices. Do not use opened or damaged packages. Return all damaged devices and packaging to the manufacturer/distributor. • Use prior to the "Use By" date. • Use device in conjunction with fluoroscopic guidance. • Do not advance or retract the device against resistance without careful assessment of the cause using fluoroscopy. • Moving or torquing the device against resistance may result in damage to the vessel or device. • Maintain a constant infusion of an appropriate flush solution.

Potential Adverse Events Potential complications include but are not limited to: acute occlusion; air embolism; allergic reaction and anaphylaxis from contrast media; aneurysm rupture; arteriovenous fistula; coagulopathy; coil herniation into parent vessel; death; device malfunction; distal embolization; emboli; embolic stroke and other cerebral ischemic events; false aneurysm formation; hematoma or hemorrhage at access site of entry; incomplete aneurysm occlusion; infection; intima dissection; intracranial hemorrhage; ischemia; myocardial infarction; neurological deficits including stroke; parent artery occlusion; peripheral thromboembolic events; post-embolization syndrome; premature device detachment; recanalization; renal failure; respiratory failure; revascularization; thromboembolic episodes; vessel spasm, thrombosis, dissection, or perforation.

POD® System – Indication for Use

For **POD Coils with nominal sizes ≤ 6 mm** The POD System is indicated for the embolization of: • Intracranial aneurysms. • Other neurovascular abnormalities such as arteriovenous malformations and arteriovenous fistulae. • Arterial and venous embolizations in the peripheral vasculature. For **POD Coils with nominal sizes > 6 mm** The POD System is indicated for arterial and venous embolizations in the peripheral vasculature.

Contraindications There are no known contraindications.

Warnings The POD System should only be used by physicians who have received appropriate training in interventional techniques.

Precautions • The device is intended for single use only. Do not resterilize or reuse. Resterilization and/or reuse may compromise the structural integrity of the device or increase the risk of contamination or infection leading to device failure and/or cross-infection and potential patient injury, illness, or death. • Do not use kinked or damaged devices. Do not use opened or damaged packages. Return all damaged devices and packaging to the manufacturer/distributor. • Use prior to the "Use By" date. • Use device in conjunction with fluoroscopic guidance. • Do not advance or retract the device against resistance without careful assessment of the cause using fluoroscopy. If POD cannot be advanced or retracted, withdraw the device as a unit with the microcatheter. • Moving or torquing the device against resistance may result in damage to the vessel or device. • Maintain a constant infusion of an appropriate flush solution.

Potential Adverse Events Possible complications include, but are not limited to, the following: acute occlusion; air embolism; allergic reaction and anaphylaxis from contrast media; aneurysm rupture; arteriovenous fistula; coagulopathy; coil herniation into parent vessel; death; device malfunction; distal embolization; emboli; embolic stroke and other cerebral ischemic events; false aneurysm formation; hematoma or hemorrhage at access site of entry; incomplete aneurysm occlusion; infection; intima dissection; intracranial hemorrhage; ischemia; myocardial infarction; neurological deficits including stroke; parent artery occlusion; peripheral thromboembolic events; post-embolization syndrome; premature device detachment; recanalization; renal failure; respiratory failure; revascularization; thromboembolic episodes; vessel spasm, thrombosis, dissection, or perforation.

Ultimate device selection is at physician discretion. Renderings for illustrative purposes only. Individual results may vary depending on patient-specific attributes and other factors.

Caution: Federal (USA) law restricts these devices to sale by or on the order of a physician. Prior to use, please refer to the Instructions for Use for complete product indications, contraindications, warnings, precautions, potential adverse events, and detailed instructions for use. Please contact your local Penumbra representative for more information.

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Penumbra LP Coil System – Indication for Use

The Penumbra LP Coil System is indicated for the embolization of: • Intracranial aneurysms. • Other neurovascular abnormalities such as arteriovenous malformations and arteriovenous fistulae. • Arterial and venous embolizations in the peripheral vasculature.

Contraindications There are no known contraindications.

Warnings • The Penumbra LP Coil System should only be used by physicians who have received appropriate training in interventional techniques. • Do not use kinked or damaged devices. Do not use opened or damaged packages. Return damaged devices and packaging to the manufacturer/ distributor. • Do not advance or withdraw the device against resistance without careful assessment of the cause using fluoroscopy. • If resistance is encountered when withdrawing the coil, withdraw the microcatheter until the resistance subsides. • Do not rotate the delivery pusher during use. Rotating the delivery pusher may result in premature detachment, which could lead to coil damage, incorrect positioning, or vessel damage. • Verify repeatedly that the microcatheter is not under stress before coil detachment. Stored forces in the microcatheter could cause the tip to move during detachment, which could lead to lesion rupture. • Advancing the delivery pusher beyond the microcatheter tip could lead to lesion rupture.

Precautions • The device is intended for single use only. Do not resterilize or reuse. Resterilization and/or reuse may compromise the structural integrity of the device or increase the risk of contamination or infection leading to device failure and/or cross-infection and potential patient injury, illness or death. • Use prior to the "Use By" date. • Use device in conjunction with fluoroscopic guidance. • As in all fluoroscopy procedures, consider all necessary precautions to limit patient radiation exposure by using sufficient shielding, reducing fluoroscopy times and modifying radiation technical factors whenever possible. • Moving or torquing the device against resistance may result in damage to the vessel or device. • Maintain a constant infusion of an appropriate flush solution. • The device may create local field inhomogeneity and susceptibility artifacts during magnetic resonance angiography (MRA), which may degrade the diagnostic quality to assess effective lesion treatment.

Potential Adverse Events Potential complications include but are not limited to: acute occlusion; air embolism; allergic reaction and anaphylaxis from contrast media; aneurysm rupture; arteriovenous fistula; coagulopathy; coil herniation into parent vessel; death; device malfunction; distal embolization; emboli; embolic stroke and other cerebral ischemic events; false aneurysm formation; hematoma or hemorrhage at access site of entry; incomplete aneurysm occlusion; infection; intima dissection; intracranial hemorrhage; ischemia; myocardial infarction; neurological deficits including stroke; parent artery occlusion; peripheral thromboembolic events; post-embolization syndrome; premature device detachment; radiation exposure that may lead to cataracts, skin reddening, burns, alopecia, or neoplasia from x-ray exposure; recanalization; renal failure; respiratory failure; revascularization; thromboembolic episodes; vessel spasm, thrombosis, dissection, or perforation.

Penumbra Delivery Microcatheters – Indication for Use

The Penumbra Delivery Microcatheters are intended to assist in the delivery of diagnostic agents, such as contrast media, and therapeutic devices, such as occlusion coils to the peripheral and neuro vasculature.

Contraindications There are no known contraindications.

Warnings The Penumbra Delivery Microcatheters should only be used by physicians who have received appropriate training in interventional techniques.

Precautions • The devices are intended for single use only. Do not resterilize or reuse. Resterilization and/or reuse may result in ineffective catheter coating lubrication, which may result in high friction and the inability to access the target location. • Do not use kinked or damaged devices. Do not use open or damaged packages. Return all damaged devices and packaging to the manufacturer/distributor. • Use prior to the "Use By" date. • Use the Penumbra Delivery Microcatheters in conjunction with fluoroscopic visualization. • Do not advance or withdraw the Penumbra Delivery Microcatheters against resistance without careful assessment of the cause using fluoroscopy. If the cause cannot be determined, withdraw the device. Moving or torquing the device against resistance may result in damage to the vessel or device. • Maintain a constant infusion of an appropriate flush solution. • If flow through the device becomes restricted, do not attempt to clear the lumen by infusion. Remove and replace the device.

Potential Adverse Events Possible complications include, but are not limited to, the following: acute occlusion; hematoma or hemorrhage at access site; death; intracranial hemorrhage; hemorrhage; infection (at access site); distal embolization; ischemia (cardiac and/or cerebral); embolus (air, foreign body, thrombus, plaque); aneurysm perforation; false aneurysm formation; neurological deficits including stroke; vessel spasm, thrombosis, dissection, perforation or rupture; air embolism; emboli.

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