

### Penumbra System®

### **ELEVATING PERFORMANCE WITH**

Penumbra



Reperfusion Catheter with Standard Tip

Penumbra

## + ENGINE®



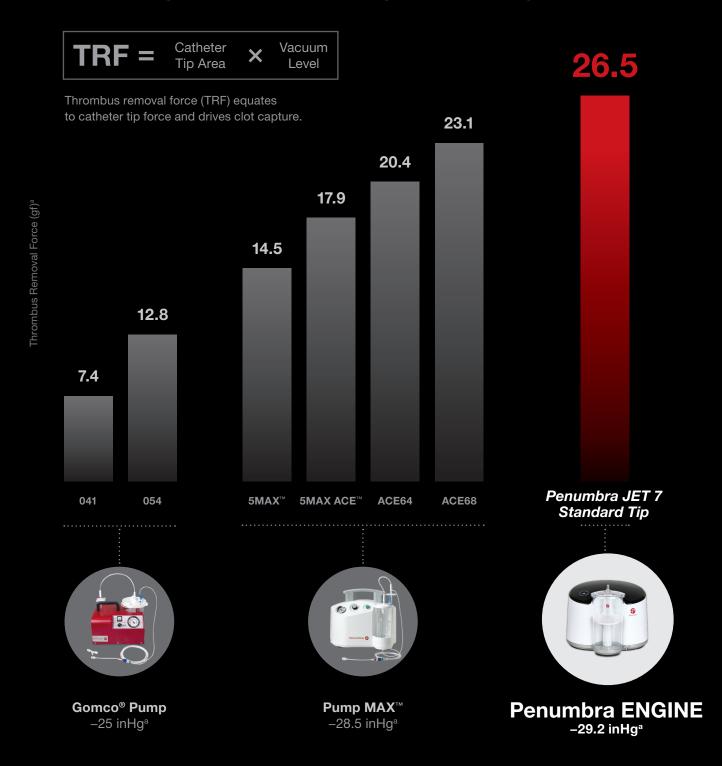
Penumbra 🕀





# HIGHEST TRF

## WITH PENUMBRA JET 7 STANDARD TIP POWERED BY PENUMBRA ENGINE



132 cm length

### ORDERING INFORMATION

		Proximal OD	Distal OD	Proximal ID	Distal ID	Working Length
Catalog Number	Description	(F) (in.)	(mm)	(in.)	(in.)	(cm)
Aspiration Kits						
5MAXJET7BKIT	Penumbra JET® 7 Reperfusion Catheter with Standard Tip + Penumbra Hi-Flow Tubing	6 (.085)	2.16	.072	.072	132
5MAXJETDKIT	Penumbra JET D Reperfusion Catheter + Penumbra Hi-Flow Tubing	6 (.080)	1.65	.064	.054	138
5MAXACE068KIT	ACE <sup>™</sup> 68 Reperfusion Catheter + Penumbra Hi-Flow Tubing	6 (.080)	2.03	.068	.068	132
5MAXACE132KIT	ACE60 Reperfusion Catheter + Penumbra Hi-Flow Tubing	6 (.080)	1.80	.068	.060	132
4MAXCKIT	4MAX <sup>™</sup> Reperfusion Catheter + Penumbra Hi-Flow Tubing	6 (.080)	1.42	.064	.041	139
3MAXCKIT	3MAX Reperfusion Catheter + Penumbra Hi-Flow Tubing	4.7 (.062)	1.27	.043	.035	160

Reperfusion Catheters 5MAXJET7B Penumbra JET 7 Reperfusion Catheter with Standard Tip 5MAXJETD Penumbra JET D Reperfusion Catheter 5MAXACE068 ACE68 Reperfusion Catheter 5MAXACE132 ACE60 Reperfusion Catheter 4MAX Reperfusion Catheter 4MAXC 3MAXC 3MAX Reperfusion Catheter **Revascularization Device** PSR3D 3D Revascularization Device™

Delivery Microcatheter VEL160STR

Velocity® Microcatheter Separator<sup>™</sup> Devices

PSF054 5MAX Separator PSF041 4MAX Separator 3MAXS 3MAX Separator

Aspiration Accessories

PMXENGN Penumbra ENGINE® PAPS3 Penumbra ENGINE Canister

Catalog Number	Description	Working Length (cm)
BMX9680BER105	BENCHMARK BMX96 Access System, 80 cm Straight, 105 cm BER 6 F Select™ Catheter	80
BMX9690BER125	BENCHMARK BMX96 Access System, 90 cm Straight, 125 cm BER 6 F Select Catheter	90
BMX9690SIM125	BENCHMARK BMX96 Access System, 90 cm Straight, 125 cm SIM 6 F Select Catheter	90
BMX9690SIMV125	BENCHMARK BMX96 Access System, 90 cm Straight, 125 cm SIM-V 6 F Select Catheter	90
BMX9690MBER125	BENCHMARK BMX96 Access System, 90 cm MP, 125 cm BER 6 F Select Catheter	90
BMX9690MSIM125	BENCHMARK BMX96 Access System, 90 cm MP, 125 cm SIM 6 F Select Catheter	90
BMX9690MSIMV125	BENCHMARK BMX96 Access System, 90 cm MP, 125 cm SIM-V 6 F Select Catheter	90
BMX96100BER125	BENCHMARK BMX96 Access System, 100 cm Straight, 125 cm BER 6 F Select Catheter	100
BMX96100SIM125	BENCHMARK BMX96 Access System, 100 cm Straight, 125 cm SIM 6 F Select Catheter	100
BMX9680	BENCHMARK BMX96 Delivery Catheter 80 cm	80
BMX9690	BENCHMARK BMX96 Delivery Catheter 90 cm	90
BMX96100	BENCHMARK BMX96 Delivery Catheter 100 cm	100

Catalog Number	Description	Working Length (cm)		
(Crosscut Valve, RHV, and Dilator Included)				
PNML6F088804	Neuron MAX 088 6 F Long Sheath, 80/4 Straight	80		
PNML6F088804M	Neuron MAX 088 6 F Long Sheath, 80/4 MP	80		
PNML6F088904	Neuron MAX 088 6 F Long Sheath, 90/4 Straight	90		
PNML6F088904M	Neuron MAX 088 6 F Long Sheath, 90/4 MP	90		
PNML6F0881004	Neuron MAX 088 6 F Long Sheath, 100/4 Straight	100		
PNML6F0881004M	Neuron MAX 088 6 F Long Sheath, 100/4 MP	100		

Catalog Number	Description	Working Length (cm)
PNS6F105BER	6 F Select Catheter, 105 BER	105
PNS6F125SIM	6 F Select Catheter, 125 SIM	125
PNS6F125SIMV	6 F Select Catheter, 125 SIM-V	125
PNS6F125BER	6 F Select Catheter, 125 BER	125

BENCHMARK BMX96, Neuron MAX 088			Select Catheter			
Ī	7				Š	
Straight	MP	H1	BER	SIM	SIM-V	

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

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PENUMBRA SYSTEM – Indication for Use
Penumbra Reperfusion Catheters and Separators As part of the
PENUMBRA SYSTEM, the Reprusion Catheters and Separators As part of the
PENUMBRA SYSTEM, the Reprusion Catheters and Separators are indicated
for use in the revascularization of patients with acute ischemic stroke
secondary to intracranial large vessel ocubisve disease within the internal
carotid, middle cerebral – M1 and M2 segments are instituted for intravenous
tissue plasminopen activator (IV t-PA) or who fail IV t-PA therapy are candidates
for treatment. Penumbra 30 REVASCULARIZATION DEVICE is
indicated for use in the revascularization of patients with acute ischemic stroke
secondary to intracranial large vessel ocubisve disease (within the internal
carotid, middle cerebral – M1 and M2 segments), within 8 hours of symptom
onset, Patients who are ineligible for intravenous tissue plasminopen activator.
IV t-PA) or who fall IV t-PA therapy are candidates for freatment Penumbra
Aspiration Tubing a spart of the PENUMBRA SYSTEM, the Penumbra
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Aspiration Systems. Contraindications There are no known contraindications.
Warnings - The device is intered of to single use only. Do not resteritize or
reuse. Resterilization and/or Feuse may result in ineffective catheter coating
tubrication, which may result in inph riscion and the inability of access the
target neuro vasculature focation. -Do not use kinked or damaged devices.
Do not use open or damaged packages. Feura all damaged devices.
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On ontice open or damaged procession activate and the readility of access the
target revascularity for the permutha paperitis on Catheter and
glubra results of the

ogy affirms the value of this quideline as an educational tool for neurologists, Stroke May 2007, 38:1655-7111.

PENUMBRA ENGINE – Indication For Use
The PENUMBRA ENGINE is indicated as a vacuum source for Penumbra Aspiration Systems. Contraindications: There are no contraindications. Warnings' Precautions - The canister rosing or vacuum filter blockages, which may result in the inability to aspirate. - Do not block bottom air vents. Unit may overheat and shut off or fail to restart if not restended periods of time without arriflow. - To avoid the risk of electrical shock, this equipment must only be connected to a supply mains with protective earth. - Do not position the PENUMBRA ENGINE so that it is difficult to remove the power cord. The means of mains disconnect is to remove the power cord. - Only use replacement fuse with correct rating (see Table 1 for fuse rating). - Remove and service the PENUMBRA ENGINE fligidist or solids have been drawn into the PENUMBRA ENGINE. - Do not use in an oxygen rich ervironment. - To prevent fire or shock hazard, use a replacement power cord of equal rating. - On or re-infuse blood or fluid from the canister back into the patient. - On or to use performent should be avoided because it could result in improper operation. If such use is necessary, this equipment adjacent to or stacked with other equipment should be avoided because it could result in improper operation. If such use is necessary, this equipment and the other equipment should be doserved to verify that they are operating normally. - Portable RT Communications equipment in (clouding peripherals such as antenna cables and external antennas) should be used no closer firan 12 inches (50 or 10 to any part of the PENUMBRA ENGINE. Use only user operation in departation of the performance of this equipment. - Common emitters (such as RFID emitters, security systems, dathermy equipment, and portable transmitters) should not be performance of this equipment.

be used in close proximity to the PENUMBRA ENGINE as they can interfere with and result in degradation of the performance of the equipment. -Equipment is not safe for MR use. -No modification of this equipment is allowed.

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Penumbra Delivery Microcatheters — Indication for Use
The 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 agents, 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
arraget 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 asknown or without a sessesment 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 influsion of an appropriate the device without careful assessment of the cause using fluoroscopy. If
the cause cannot be determined, withdraw the device. Moving or torquing
the device becomes restricted, do not attempt to clear the lumen
by influsion. Remove and replace the device. Potential Adverse Events
Possible complications include, but are not llimited to, the following: acute
occlusion, hematoma or hemorrhage at access siley, distal embolization;
ischemia (cardiac and/or cerebrar), embolis, embolis (air, foreign body, thrombus,
jeaule); are remove and replace the device as a secum seurce for the

deficits including survive, resease spasent, interioruses, dissessions perioration or rupture; air embolism; embolism.

Penumbra Pump MAX — Indication for Use The Penumbra Pump MAX is indicated as a vacuum source for the Penumbra Aspiration Systems. Contraindications. There are no contraindications. Warmings/Preautions: The censites/rubing is intended for single use only. Do not reuse, Reuse may result in canister cracking or tubing blockagies, which may result in the inability to aspirate. — Do not block bottom or back air vents. Unit may overheat and shut off or fail to restart if run for extended periods of time without artifow. To avoid risk of electric shock, this equipment must only be connected to a supply mains with protective earth. — Do not position the pump so that it is difficult to operate the power cord disconnection device. — Remove and service the pump if liquids or solids have been drawn into the vacuum pump. — Do not use in the power cord disconnection device. — Remove and service the pump if presence of a flammable anaesthetic mixture with air or introus oxide. — Do not use in oxygen rich environment. — To prevent fire or shock hazard, use replacement fuses of equal size and rating. — To prevent fire or shock hazard, use a replacement power cord of equal rating. — Do not re-intuse blood or fluid from the canister back into patient. — Do not use petroleum base compounds, acids, caustics, or chlorinated solvents to clean or lubricate any parts. It will reduce the service life of the pump. Use only water-base solvents for cleaning. — Federal (USA) law restricts this device to sale by or on the order of a physician. — No modification for the equipment is allowed.

BENCHMARK BMX96 System - Indication For Use

BENCHMARK BMX96 System - Indication For Use
The BENCHMARK BMX96 System in Indication For Use
The BENCHMARK BMX96 System is indicated for the introduction
of interventional devices into the peripheral, coronary, and neuro
assculature. Contraindications There are no known contraindications.
Warnings The BENCHMARK BMX96 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 restrilize 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 vasculature location; and/or may
compromise the structural integrity of the device. - 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 BENCHMARK BMX96 System in
conjunction with fluoroscopic visualization. - Do not advance or withdraw
the BENCHMARK BMX96 System against resistance without careful
assessment of the cause using fluoroscopy. If the cause cannot be
determined, withdraw the device. Unrestrained 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 lume
by infusion. Remove and replace the device. Potential Adverse Events
Possible complications include, but are not limited to, the following; acute
occlusion; air embolism; death; distal embolization; emboli; talse aneurysm formation; hematoma or hemorrhage at puncture site, infection,
intracranial hemorrhage; ischemia; neurological deficits including stroke;
vessel spasm, thrombosis, dissection, or perforation.

NEURON MAX System — Indication for Use

Intracranial nemorrage; ischemia; heurological extensis including stroke; 
vessel spasm, thrombosis, dissection, or perforation.

NEURON MAX System – Indication for Use
The NEURON MAX System is indicated for the introduction of interventional devices into the peripheral, coronary, and neuro vasculature. Contraindications There are no known contraindications. Wannings The NEURON MAX System should only be used by physicians who have received appropriate training in interventional techniques. Procautions: The device is intended or single use only. Do not restertilize or reuse. Restertilization and/or reuse may result in ineffective catheter coating lubrication, which may result in high friction and the inability to access the target vasculature location; and/or damaged devices. Do not use open or damaged devices. Do not use open or damaged devices and packaging to the manufacturer/distributor. Use prior to the "Use By" data. "Lee The NEURON MAX System against resistance without careful assessment of the cause using fluoroscopy. If the cause cannot be determined, withdraw the device. Unrestrained moving or torquing the device against resistance may result in damage to the vessel or device. "Maintain a constant intuision of an appropriate flush solution." Iff 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; air embolism, death, distal embolization; emboli; false aneurysm formation; hematoma or hemorrhage at puncture interacrial including stroke; vessel spasm, thrombosis, dissection, or perforation.

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