

Penumbra (P)

Indigo System Catheters

Indigo System Catheters



Arterial, venous, and pulmonary clot in larger vessels where circumferential aspiration is desired



Arterial clot in larger arteries including SFA, popliteal, and viscerals



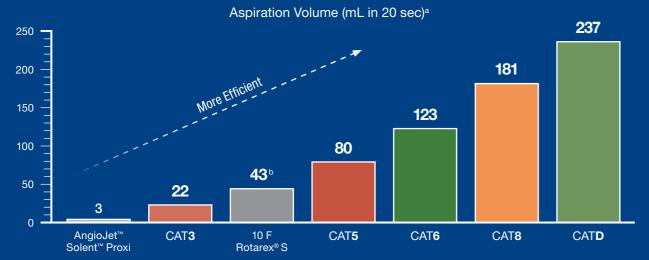
Smaller, distal reach for upper and lower arterial extremities



50 cm length for upper and lower venous and AV fistula/graft thrombus aspiration

Aspirate, Don't Macerate

Power Aspiration with Indigo System



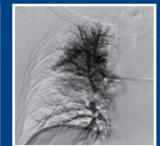
- a. Angio Jet setup tested with its own accessories and aspiration source per its Instructions for Use. Data for Angio Jet Solent Proxi was collected in 201
 - Rotarex S Catheter was acquired from Rotarex S Catheter Instructions for Use. On file at Penumbra, Inc.

Benefits of Mechanical Power Aspiration

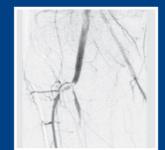
- Atraumatic tracking
- No reported bradycardia or hypotension°
- No reported haemolysis or renal failure°
- Can be used to retrieve distal emboli

Get the Clot Out with Indigo System





Removal of Thrombus from Pulmonary
Dr. Juan José Ciampi-Dopazo, Complejo Hospitalario de Toledo, Toledo, Spair





Removal of Thrombus from Tibioperoneal



Indigo System Features



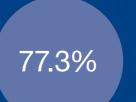
PRISM Trial Results





Corey Teigen, MD, Department of Interventional Radiology, Sanford Health, Fargo, ND, USA James F. Benenati, MD, FSIR, Miami Cardiac & Vascular Institute, Miami, FL, USA Richard R. Saxon, MD, San Diego Cardiac & Vascular Institute, San Diego, CA, USA George L. Adams, MD, North Carolina Heart & Vascular Research, Raleigh, NC, USA Luke Sewall, MD, Adventist Health Partners, Downers Grove, IL, USA

Above Knee/Popliteal



22.8%

Below Knee

Successful Revascularisation XTRACT with Indigo

87.2%

96.2%

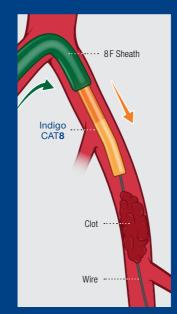
Successful Revascularisation

Post All Interventions

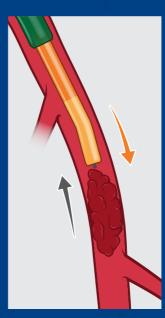
Successful Revascularisation was defined as TIMI 2–3 flow

Conclusion: XTRACT Technique with Indigo System is Safe and Effective

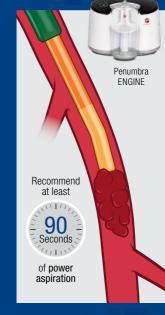
XTRACT Technique Used in PRISM Trial for Arterial Occlusions



The contralateral sheath with RHV/Tuohy is positioned as close to the lesion as possible and the Indigo CAT8 is advanced through sheath over a wire.



The Indigo CAT8 is placed just proximal to the face of the clot and wire is retracted.



Aspiration is applied to Indigo CAT8 via Penumbra ENGINE until CAT8 becomes occluded (recommend waiting at least 90 seconds).



The Indigo CAT8 is removed under aspiration to ensure clot remains engaged in catheter tip and clot is extracted out of the body.

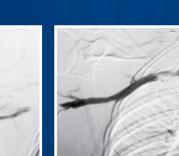
The opinions and clinical experiences presented herein are for informational purposes only. The results may not be predictive for all patients. Individual results may vary depending on a variety of patient-specific attributes Renderings for illustrative purposes only. Procedural and operative techniques and considerations are illustrative examples from physician experience. Physicians' treatment and technique decisions will vary based on their medical judgment.

f. Saxon RR, Benenati JF, Teigen C, Adams GL, Sewall LE; PRISM Trialists. Utility of a Power Aspiration-Based Extraction Technique as an Initial and Secondary Approach in the Treatment of Peripheral Arterial Thromboembo lism: Results of the Multicenter PRISM Trial. J Vasc Interv Radio. 2018 Jan; 29(1):92-100. doi:10.1016/j.jvir.2017.08.019.

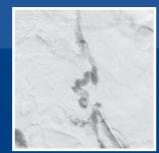




Removal of Thrombus from Pulmonary Drs. Sergio Berti, Cataldo Palmieri, and Isabella Spadoni Fondazione Toscana Gabriele Monasterio, Ospedale del Cuore, Italy



Removal of Thrombus from Subclavian Vein Dr. Frank Arko, Atrium Health, NC, USA



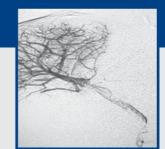


Removal of Thrombus from Iliac & Femoral Vein Dr. Michael Lichtenberg, Klinikum Arnsberg, Arnsberg, Germany



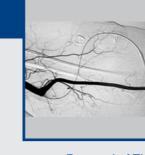


Removal of Thrombus from BTA Dr. Gianmarco de Donato, University of Siena, Siena, Italy





Removal of Thrombus from Portal Vein Dr. Rafik Lababidi, Largo Medical Center, FL, USA





Removal of Thrombus from AV Fistula





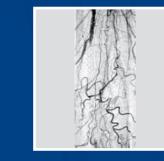


Removal of Thrombus from Anterior Tibial Dr. Florian Wolf, Allgemeines Krankenhaus der Stadt Wien, Vienna, Austria

Removal of SFA Chronic Total Occlusion Dr. Branavan Umakanthan, Nevada Heart and Vascular Center, NV, USA



Removal of Thrombus from Popliteal Artery Dr. Theodosios Bisdas, Athens Medical Center, Athens, Greece



Up to 8F Arterial, Venous, and Pulmonary Indication

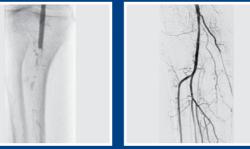
Removal of Thrombus from Occluded SFA Stent Dr. George Adams, REX/UNC Healthcare, NC, USA





Removal of Thrombus from SMA





Removal of Thrombus from Popliteal Artery Dr. Maria Antonella Ruffino, Città della Salute e della Scienza di Torino, Torino, Italy

Indigo System Powered by Penumbra ENGINE



Indigo System

Now Packaged with **Dynamic Tubing**

Ability to Slide Flow Switch



g. Compared to previous Flow Switch. Data on file at Penumbra, Inc.

64% Larger Flow Switch ID⁹







Dynamic Flow Switch

Indigo Catheter Kits	Indigo Catheter Kits							
Catalog Number	Description	Proximal OD	Distal OD	Compatibility (Sheath or Guide)	Working Length (cm)	Wire Platform (in.) (mm)	Compatible Penumbra Devices	
CAT8XTORQ115KIT - Now!	Indigo 8 XTORQ Tip + Dynamic Aspiration Tubing	8 F (2.67 mm)	8 F (2.67 mm)	8 F (2.67 mm) Sheath	115	.014038 (.3697)	Separator 8	
CAT8TORQ85KIT - Now!	Indigo 8 TORQ Tip + Dynamic Aspiration Tubing	8 F (2.67 mm)	8 F (2.67 mm)	8 F (2.67 mm) Sheath	85	.014038 (.3697)	Separator 8	
CAT8STR85KIT - Now!	Indigo 8 Straight Tip + Dynamic Aspiration Tubing	8 F (2.67 mm)	8 F (2.67 mm)	8 F (2.67 mm) Sheath	85	.014038 (.3697)	Separator 8	
CAT6KIT - Now!	Indigo 6 + Dynamic Aspiration Tubing	6 F (2.00 mm)	6 F (2.00 mm)	6 F (2.00 mm) Sheath	135	.014038 (.3697)	Separator 6	
CAT5KIT - Now!	Indigo 5 + Dynamic Aspiration Tubing	6 F (2.00 mm)	5 F (1.65 mm)	6 F (2.00 mm) Sheath	132	.014038 (.3697)	Separator 5	
CAT3KIT - Now!	Indigo 3 + Dynamic Aspiration Tubing	4.1 F (1.37 mm)	3.4 F (1.14 mm)	5 F (1.65 mm) Sheath	150	.014025 (.3664)	Separator 3	
CATD - Now!	Indigo D + Dynamic Aspiration Tubing	8 F (2.67 mm)	8 F (2.67 mm)	8 F (2.67 mm) Sheath	50	.014038 (.3697)	Separator D	

Indigo S	Indigo Separators								
Catalog Number	Description	Distal OD (in.) (mm)	Total Length (cm)	Compatible Penumbra Devices					
SEP8	Separator 8	.072 (1.83)	150	CAT8					
SEP6	Separator 6	.055 (1.40)	175	CAT6					
SEP5	Separator 5	.045 (1.14)	175	CAT5					
SEP3	Separator 3	.028 (.71)	190	CAT3					
SEPD	Separator D	.072 (1.83)	90	CATD					

Accessories							
Catalog Number	Description	Compatible Penumbra Devices					
PMXENGN - Now!	Penumbra ENGINE	Penumbra ENGINE Canister					
IAPS3 - Now!	Penumbra ENGINE Canister	Penumbra ENGINE					

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.

INDIGO Aspiration System – Intended Use

The INDIGO Aspiration System is intended for the removal of fresh, soft emboli and thrombi from vessels of the peripheral arterial and venous systems and certain central circulatory system conditions such as pulmonary emboli using continuous aspiration.

Potential Adverse Events

Possible complications include, but are not limited to, the following: allergic reaction and anaphylaxis from contrast media; acute occlusion; air embolism; arteriovenous fistula; death; device malfunction; distal embolization; emboli; false aneurysm formation; hematoma or hemorrhage at access site; inability to completely remove thrombus; infection; hemorrhage; ischemia; kidney damage from contrast media; neurological deficits including stroke; vessel spasm, thrombosis, dissection, or perforation; intimal disruption; myocardial infarction; emergent surgery; fibrillation; hypotension; respiratory failure; peripheral thromboembolic events.

PENUMBRA ENGINE - Intended Use

The PENUMBRA ENGINE is intended as a vacuum source for Penumbra Aspiration Systems.



Penumbra Europe GmbH

Am Borsigturm 44 13507 Berlin Germany T +49 30 2005 676-0 F +49 30 2005 676-10 de-order@penumbrainc.com info@penumbrainc.de

Penumbra, Inc. USA One Penumbra Place Alameda, CA 94502 USA 1.888.272.4606 T 1.510.748.3200 F 1.510.748.3232 order@penumbrainc.com info@penumbrainc.com

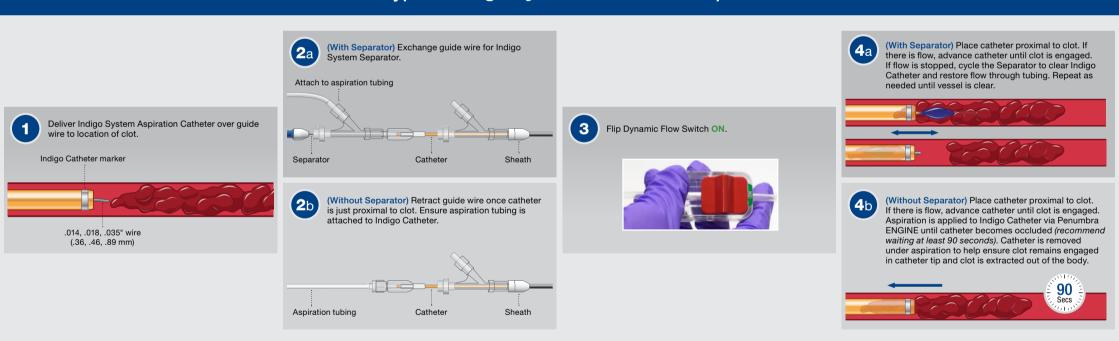
Product availability varies by country. Images used with permission. Consents on file at Penumbra, Inc. Individual results may vary depending on a variety of patient-specific attributes. Tests performed and data on file at Penumbra, Inc. Bench test results may not be indicative of clinical performance. The opinions and clinical experiences presented herein are for informational purposes only. The results may not be predictive for all patients. Renderings for illustrative purposes only. Individual results may vary depending on a variety of patient-specific attributes. Procedural and operative techniques and considerations are illustrative examples from physician experience. Physicians' treatment and technique decisions will vary based on their medical judgment. Photographs taken by and on file at Penumbra, Inc. Please contact your local Penumbra representative for more information.

Indigo System Setup and Procedural Steps

Penumbra ENGINE Setup



Typical Indigo System Procedural Steps



ndigo Catheter Kits						Indigo Separators						
Catalog Number	Description	Proximal OD	Distal OD	Compatibility (Sheath or Guide)	Working Length (cm)	Wire Platform (in.) (mm)	Compatible Penumbra Devices	Catalog Number	Descripti	on Distal OD (in.) (mm)	Total Length (cm)	Compatible Penumbra Devices
CAT8XTORQ115KIT - Now!	Indigo 8 XTORQ Tip + Dynamic Aspiration Tubing	8 F (2.67 mm)	8 F (2.67 mm)	8 F (2.67 mm) Sheath	115	.014038 (.3697)	Separator 8	SEP8	Separato	or 8 .072 (1.83)	150	CAT8
	Dynamic Aspiration rubing			Sileatii			·	SEP6	Separato	or 6 .055 (1.40)	175	CAT6
CAT8TORQ85KIT - Now!	Indigo 8 TORQ Tip + Dynamic Aspiration Tubing	8 F (2.67 mm)	8 F (2.67 mm)	8 F (2.67 mm) Sheath	85	.014038 (.3697)	Separator 8	SEP5	Separato	or 5 .045 (1.14)	175	CAT5
	Indian O Otroinh Tin			0.5 (0.67)				SEP3	Separato	or 3 .028 (.71)	190	CAT3
CAT8STR85KIT - Now!	Indigo 8 Straight Tip + Dynamic Aspiration Tubing	8 F (2.67 mm)	8 F (2.67 mm)	8 F (2.67 mm) Sheath	85	.014038 (.3697)	Separator 8	SEPD	Separato	or D .072 (1.83)	90	CATD
CAT6KIT - Now!	Indigo 6 + Dynamic Aspiration Tubing	6 F (2.00 mm)	6 F (2.00 mm)	6 F (2.00 mm) Sheath	135	.014038 (.3697)	Separator 6	Access	ories			
CAT5KIT - Now!	Indigo 5 + Dynamic Aspiration Tubing	6 F (2.00 mm)	5 F (1.65 mm)	6 F (2.00 mm) Sheath	132	.014038 (.3697)	Separator 5	Catalog N	umber	Description	Compatib	le Penumbra Devices
CAT3KIT - Now!	Indigo 3 + Dynamic Aspiration Tubing	4.1 F (1.37 mm)	3.4 F (1.14 mm)	5 F (1.65 mm) Sheath	150	.014025 (.3664)	Separator 3	PMXENG	N – Now!	Penumbra ENGINE	Penumb	ra ENGINE Canister
CATD - Now!	Indigo D + Dynamic Aspiration Tubing	8 F (2.67 mm)	8 F (2.67 mm)	8 F (2.67 mm) Sheath	50	.014038 (.3697)	Separator D	IAPS3 - N	ow!	Penumbra ENGINE Caniste	er Pen	umbra ENGINE



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.

INDIGO Aspiration System – Intended Use
The INDIGO Aspiration System is intended for the removal of fresh, soft emboli and thrombi from vessels of the peripheral arterial and venous systems and certain central circulatory system conditions such as pulmonary emboli using continuous aspiration.

Potential Adverse Events

Possible complications include, but are not limited to, the following: allergic reaction and anaphylaxis from contrast media; acute occlusion; air embolism; arteriovenous fistula; death; device malfunction; distal embolization; emboli; false aneurysm formation; hematoma or hemorrhage at access site; inability to completely remove thrombus; infection; hemorrhage; ischemia; kidney damage from contrast media; neurological deficits including stroke; vessel spasm, thrombosis, dissection, or perforation; intimal disruption; myocardial infarction; emergent surgery; fibrillation; hypotension; respiratory failure; peripheral thromboembolic events.



Indigo System | Mechanical Thrombectomy

for Pulmonary Embolism



EXTRACT-PE Trial

Prospective, Single-Arm, Multicenter Study of the Indigo Aspiration System in Patients with Acute Pulmonary Embolism

Study Objective: Determine the safety and efficacy of the Indigo Aspiration System for aspiration mechanical thrombectomy in patients with acute pulmonary embolism (PE).

22 centers | 119 patients

Key Results



Mean reduction RV/LV ratio at 48 hours



Major Adverse Events within 48 hours



of patients did **not** receive intraprocedural thrombolytics



Median **Indigo** procedure time



Median ICU Stay

Get the Clot Out with Indigo System

Pre-Procedure







Post-Procedure







Case courtesy of Dr. James Benenati, Miami Cardiac and Vascular Institute, FL, USA

Indigo System Features

- **Mechanical Clot Engagement** Proprietary Separator Technology
- **Maximised Aspiration Power** Large Lumen Aspiration
- **Advanced Tracking Technology** Multiple Material Transitions
- Tip Directionality for **Circumferential Aspiration**

CAT8 Tip Shapes



Powered by **Penumbra ENGINE**

One Touch for Maximum Aspiration Powerful, Deep Vacuum -29 inHg^d

Live Feedback During Procedure Integrated Clot Catcher



Dr. Rajneesh Agrawal, Desert Radiology, NV, USA

Easy Setup Sleek, Simple Design



3

Indigo System for Pulmonary Embolism



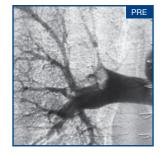


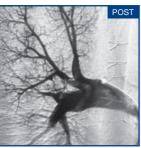
Drs. Sergio Berti, Cataldo Palmieri, and Isabella Spadoni Fondazione Toscana Gabriele Monasterio, Ospedale del Cuore, Italy

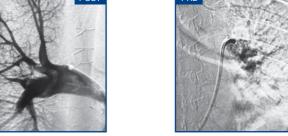


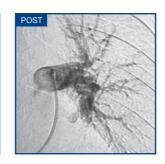


Dr. Juan José Ciampi-Dopazo Complejo Hospitalario de Toledo, Toledo, Spain









Dr. Paul Perkowski Baton Rouge General, LA, USA

Dr. Ezell Askew, Jr. St. Joseph's Medical Center of Stockton, CA, USA

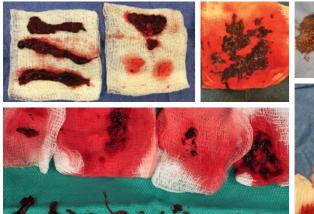


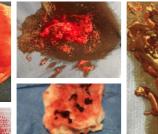


Drs. James Benenati and Alex Powell Miami Cardiac and Vascular Institute, FL, USA

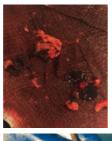
Dr. Corey Teigen Sanford Health, ND, USA











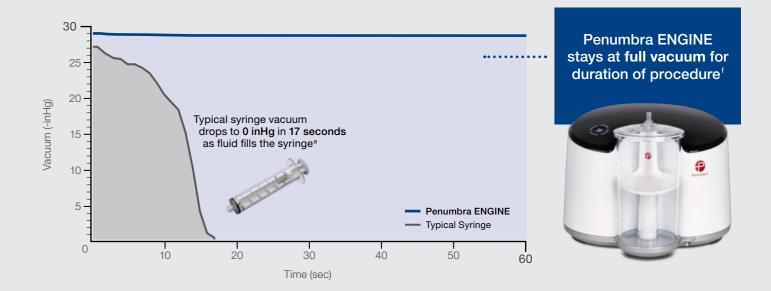




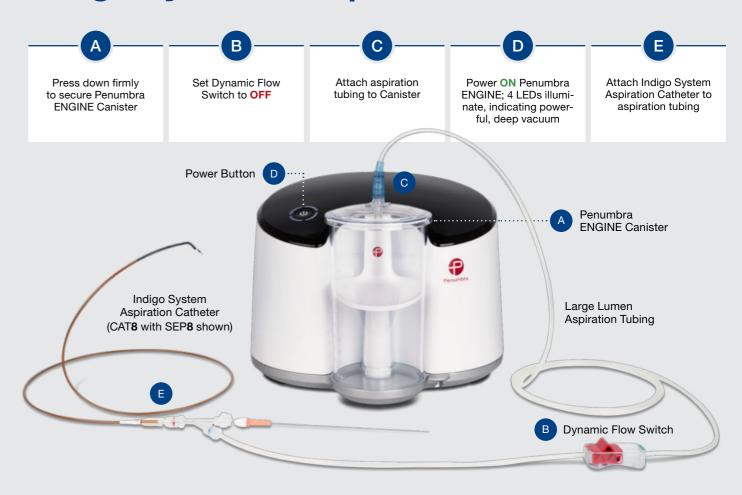


Sustained Power Aspiration

vs. Diminished Syringe-based Aspiration



Indigo System Setup



- e. Tests performed and data on file at Penumbra, Inc. Data obtained using a 60 cc syringe connected to Penumbra ACE60 catheter with vacuum gauge attached to proximal barrel of syringe and continuous filling of syringe. Bench test results may not be indicative of clinical performance. Photographs taken by and on file at Penumbra, Inc.

 f. Tests performed and data on file at Penumbra, Inc. Bench test results may not be indicative of clinical performance. Tests performed using water.

Indigo System | Mechanical Thrombectomy

Indigo Catheter Kits	Indigo Catheter Kits							
Catalog Number	Description	Proximal OD	Distal OD	Compatibility (Sheath or Guide)	Working Length (cm)	Wire Platform (in.) (mm)	Compatible Penumbra Devices	
CAT8XTORQ115KIT - Now!	Indigo 8 XTORQ Tip + Dynamic Aspiration Tubing	8 F (2.67 mm)	8 F (2.67 mm)	8 F (2.67 mm) Sheath	115	.014038 (.3697)	Separator 8	
CAT8TORQ85KIT - Now!	Indigo 8 TORQ Tip + Dynamic Aspiration Tubing	8 F (2.67 mm)	8 F (2.67 mm)	8 F (2.67 mm) Sheath	85	.014038 (.3697)	Separator 8	
CAT8STR85KIT - Now!	Indigo 8 Straight Tip + Dynamic Aspiration Tubing	8 F (2.67 mm)	8 F (2.67 mm)	8 F (2.67 mm) Sheath	85	.014038 (.3697)	Separator 8	
CAT6KIT - Now!	Indigo 6 + Dynamic Aspiration Tubing	6 F (2.00 mm)	6 F (2.00 mm)	6 F (2.00 mm) Sheath	135	.014038 (.3697)	Separator 6	
CAT5KIT - Now!	Indigo 5 + Dynamic Aspiration Tubing	6 F (2.00 mm)	5 F (1.65 mm)	6 F (2.00 mm) Sheath	132	.014038 (.3697)	Separator 5	
CAT3KIT - Now!	Indigo 3 + Dynamic Aspiration Tubing	4.1 F (1.37 mm)	3.4 F (1.14 mm)	5 F (1.65 mm) Sheath	150	.014025 (.3664)	Separator 3	
CATD - Now!	Indigo D + Dynamic Aspiration Tubing	8 F (2.67 mm)	8 F (2.67 mm)	8 F (2.67 mm) Sheath	50	.014038 (.3697)	Separator D	

Indigo S	eparators			
Catalog Number	Description	Distal OD (in.) (mm)	Total Length (cm)	Compatible Penumbra Devices
SEP8	Separator 8	.072 (1.83)	150	CAT8
SEP6	Separator 6	.055 (1.40)	175	CAT6
SEP5	Separator 5	.045 (1.14)	175	CAT5
SEP3	Separator 3	.028 (.71)	190	CAT3
SEPD	Separator D	.072 (1.83)	90	CATD

Accessories							
Catalog Number	Description	Compatible Penumbra Devices					
PMXENGN - Now!	Penumbra ENGINE	Penumbra ENGINE Canister					
IAPS3 - Now!	Penumbra ENGINE Canister	Penumbra ENGINE					

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.

INDIGO Aspiration System – Intended Use
The INDIGO Aspiration System is intended for the removal of fresh, soft emboli and thrombi from vessels of the peripheral arterial and venous systems and certain central circulatory system conditions such as pulmonary emboli using continuous aspiration.

Potential Adverse Events

Possible complications include, but are not limited to, the following: allergic reaction and anaphylaxis from contrast media; acute occlusion; air embolism; arteriovenous fistula; death; device malfunction; distal embolization; emboli, false aneurysm formation; hematoma or hemorrhage at access site; inability to completely remove thrombus; infection; hemorrhage; ischemia; kidney damage from contrast media; neurological deficits including stroke; vessel spasm, thrombosis, dissection, or perforation; intimal disruption; myocardial infarction; emergent surgery; fibrillation; hypotension, respiratory failure; peripheral thromboembolic events.

PENUMBRA ENGINE – Intended Use
The PENUMBRA ENGINE is intended as a vacuum source for Penumbra Aspiration Systems.



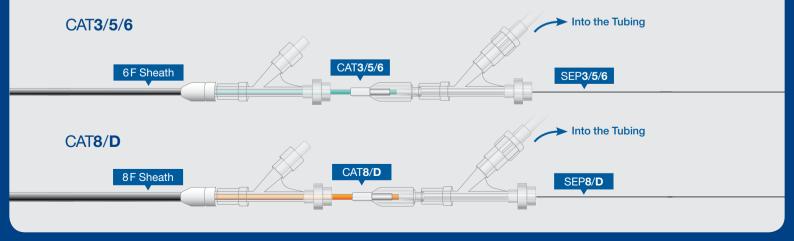
Penumbra Europe GmbH Am Borsigturm 44 13507 Berlin T+49 30 2005 676-0 F+49 30 2005 676-10 de-order@penumbrainc.com info@penumbrainc.de

Penumbra, Inc. USA One Penumbra Place Alameda, CA 94502 USA 1.888.272.4606 T 1.510.748.3200 F 1.510.748.3232 order@penumbrainc.com info@penumbrainc.com

Penumbra Indigo System

Sheath	Catheter	Separator	Tubing	Canister	Catheter Length	Wire Platform
Min. 8F (2.67 mm)	CATD	SEPD	IST3	IAPS2	50 cm	.014038" (.356965 mm)
Min. 8F (2.67 mm)	CAT8XTORQ115	SEP8	IST3	IAPS2	115 cm	.014038" (.356965 mm)
Min. 8F (2.67 mm)	CAT8TORQ85	SEP8	IST3	IAPS2	85 cm	.014038" (.356965 mm)
Min. 8F (2.67 mm)	CAT8STR85	SEP8	IST3	IAPS2	85 cm	.014038" (.356965 mm)
Min. 6F (2 mm)	CAT6	SEP6	IST3	IAPS2	135 cm	.014038" (.356965 mm)
Min. 6F (2 mm)	CAT5	SEP5	IST3	IAPS2	132 cm	.014038" (.356965 mm)
Min. 5F (1.65 mm)	CAT3	SEP3	IST3	IAPS2	150 cm	.014025" (.356635 mm)







Penumbra, Inc. USA
One Penumbra Place
Alameda, CA 94502
USA
1.888.272.4606
T 1.510.748.3230
F 1.510.748.3230
order@penumbrainc.com
info@penumbrainc.com

Penumbra Europe GmbH Am Borsigturm 44 13507 Berlin Germany T +49 30 2005 676-0 F +49 30 2005 676-10 de-order@penumbrainc.com info@penumbrainc.de Penumbra Neuro Australia Pty Ltd Suite 3, Level 5, 1 Oxford Street Darlinghurst NSW 2010 Australia T+61-1300 817 025 F+61-1300 817 026 order.anz@penumbrainc.com

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.

Indigo Aspiration System - Intended Use

The Indigo Aspiration System is intended for the removal of fresh, soft emboli and thrombi from vessels of the peripheral arterial and venous systems using continuous aspiration.

Potential Adverse Events

Possible complications include, but are not limited to, the following:

allergic reaction and anaphylaxis from contrast media: acute occlusion; air embolism; arteriovenous fistula; death; device malfunction; distal embolization; emboli; false aneurysm formation; hematoma or hemorrhage at access site; inability to completely remove thrombus; infection, hemorrhage; ischemia; kidney damage from contrast media; neurological deficits including stroke; vessel spasm, thrombosis, dissection, or perforation; intimal disruption; myocardial infarction; emergent surgery; fibrillation; hypotension; respiratory failure; peripheral thromboembolic events.

Penumbra Pump MAX – Intended Use

The Penumbra Pump MAX is intended as a vacuum source for the Penumbra Aspiration Systems.

Product availability varies by country. Please contact your local Penumbra representative for more information.

Copyright @2019 Penumbra, Inc. All rights reserved. The Penumbra P logo, Indigo, Separator, and MAX are registered trademarks or trademarks of Penumbra, Inc. in the USA and other countries.

11638, Rev. A 02/19 OUS

Indigo System

Technical Specifications

Indigo Catheters

Product Name	Working Length	Hydrophilic Length	Distal OD	Distal ID	Proximal OD	Poximal ID	Distal Flex Length
	(cm)	(cm)	(in)	(in)	(in)	(in)	(cm)
CAT3	150	75	.045	.032	.054	.041	30
CAT5	132	30	.066	.054	.080	.064	20
CAT6	135	11	.083	.070	.083	.070	8
CAT8	85, 100, 115	7	.112	.088	.112	.088	4, 5

Indigo Separators

Product Name	Proximal Wire OD	Support Zone (Proximal Length)	Overall (Total) Length	Bulb (Cone OD)	Body Wire (Wire OD)	Flexible Length
	(in)	(cm)	(cm)	(in)	(in)	(cm)
SEP3	.018	35	190	.028	.010	30
SEP5	.020	40	175	.045	.014	43
SEP6	.020	40	175	.055	.014	43
SEP8	.025	54	150	.068	.021	30



www.penumbrainc.com

Penumbra, Inc. USA

One Penumbra Place Alameda, CA 94502 1.888.272.4606 T 1.510.748.3200 F 1.510.748.3232 order@penumbrainc.com info@penumbrainc.com

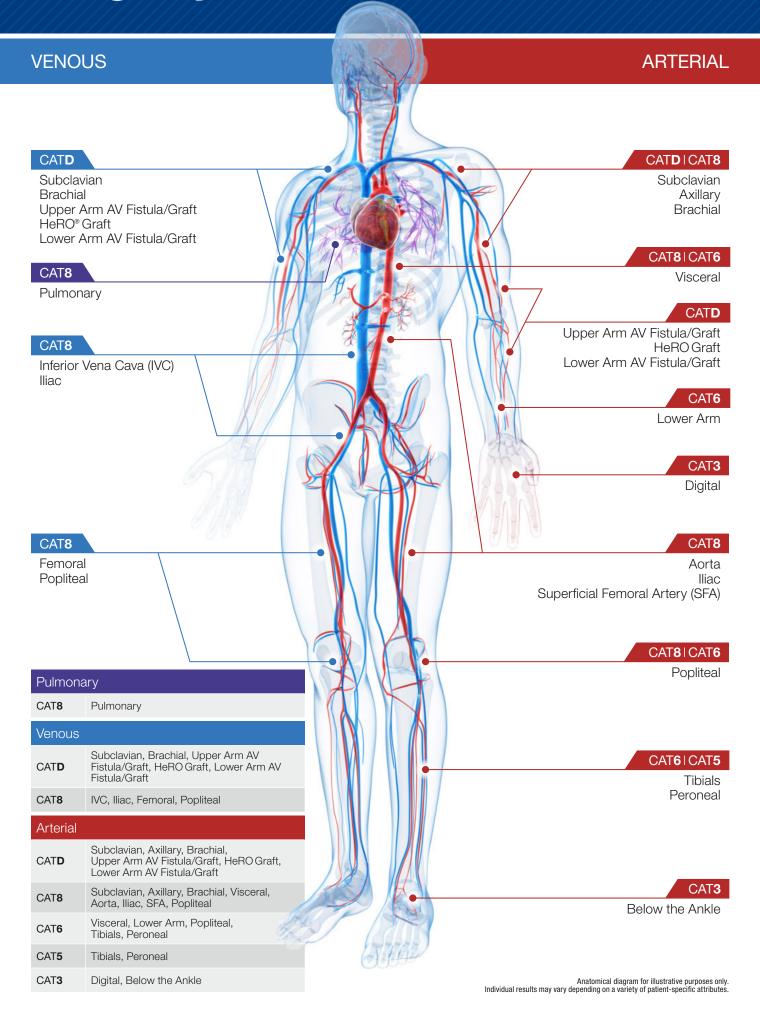
Penumbra Europe GmbH Am Borsigturm 44

13507 Berlin Germany T +49 30 2005 676-0 F +49 30 2005 676-10 order@penumbrainc.de info@penumbrainc.de

Penumbra Neuro Australia Pty Ltd Suite 3, Level 5, 1 Oxford Street Darlinghurst NSW 2010 Australia T +61-1300 817 025 F +61-1300 817 026

order.anz@penumbrainc.com

Indigo System



Ordering Information

Indigo Catheter Kits	Indigo Catheter Kits							
Catalog Number	Description	Proximal OD	Distal OD	Compatibility (Sheath or Guide)	Working Length (cm)	Wire Platform (in.) (mm)	Compatible Penumbra Devices	
CAT8XTORQ115KIT - Now!	Indigo 8 XTORQ Tip + Dynamic Aspiration Tubing	8 F (2.67 mm)	8 F (2.67 mm)	8 F (2.67 mm) Sheath	115	.014038 (.3697)	Separator 8	
CAT8TORQ85KIT - Now!	Indigo 8 TORQ Tip + Dynamic Aspiration Tubing	8 F (2.67 mm)	8 F (2.67 mm)	8 F (2.67 mm) Sheath	85	.014038 (.3697)	Separator 8	
CAT8STR85KIT - Now!	Indigo 8 Straight Tip + Dynamic Aspiration Tubing	8 F (2.67 mm)	8 F (2.67 mm)	8 F (2.67 mm) Sheath	85	.014038 (.3697)	Separator 8	
CAT6KIT - Now!	Indigo 6 + Dynamic Aspiration Tubing	6 F (2.00 mm)	6 F (2.00 mm)	6 F (2.00 mm) Sheath	135	.014038 (.3697)	Separator 6	
CAT5KIT - Now!	Indigo 5 + Dynamic Aspiration Tubing	6 F (2.00 mm)	5 F (1.65 mm)	6 F (2.00 mm) Sheath	132	.014038 (.3697)	Separator 5	
CAT3KIT - Now!	Indigo 3 + Dynamic Aspiration Tubing	4.1 F (1.37 mm)	3.4 F (1.14 mm)	5 F (1.65 mm) Sheath	150	.014025 (.3664)	Separator 3	
CATD - Now!	Indigo D + Dynamic Aspiration Tubing	8 F (2.67 mm)	8 F (2.67 mm)	8 F (2.67 mm) Sheath	50	.014038 (.3697)	Separator D	

Indigo S	Separators			
Catalog Number	Description	Distal OD (in.) (mm)	Total Length (cm)	Compatible Penumbra Devices
SEP8	Separator 8	.072 (1.83)	150	CAT8
SEP6	Separator 6	.055 (1.40)	175	CAT6
SEP5	Separator 5	.045 (1.14)	175	CAT5
SEP3	Separator 3	.028 (.71)	190	CAT3
SEPD	Separator D	.072 (1.83)	90	CATD

Accessories		
Catalog Number	Description	Compatible Penumbra Devices
PMXENGN - Now!	Penumbra ENGINE	Penumbra ENGINE Canister
IAPS3 - Now!	Penumbra ENGINE Canister	Penumbra ENGINE

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.

INDIGO Aspiration System – Intended Use
The INDIGO Aspiration System is intended for the removal of fresh, soft emboli and thrombi from vessels of the peripheral arterial and venous systems and certain central circulatory system conditions such as pulmonary emboli using continuous aspiration.

Potential Adverse Events

Possible complications include, but are not limited to, the following: allergic reaction and anaphylaxis from contrast media; acute occlusion; air embolism; arteriovenous fistula; death; device malfunction; distal embolization; emboli, false aneurysm formation; hematoma or hemorrhage at access site; inability to completely remove thrombus; infection; hemorrhage; ischemia; kidney damage from contrast media; neurological deficits including stroke; vessel spasm, thrombosis, dissection, or perforation; intimal disruption; myocardial infarction; emergent surgery; fibrillation; hypotension; respiratory failure; peripheral thromboembolic events.

PENUMBRA ENGINE – Intended Use
The PENUMBRA ENGINE is intended as a vacuum source for Penumbra Aspiration Systems.



Penumbra Europe GmbH Am Borsigturm 44 13507 Berlin Germany T +49 30 2005 676-0 F +49 30 2005 676-10 de-order@penumbrainc.com info@penumbrainc.de Penumbra, Inc. USA
One Penumbra Place
Alameda, CA 94502
USA
1.888.272.4606
T 1.510.748.3220
rf 1.510.748.3232
order@penumbrainc.com
info@penumbrainc.com