

**STAY ENGAGED...**

**MORE VISIBLE.<sup>a,1</sup>**

**MORE OPTIONS.<sup>a,1</sup>**



**CERENOVUS**

PART OF THE *Johnson & Johnson* FAMILY OF COMPANIES

**EMBOTRAP™ III**  
revascularization device

# The EMBOTRAP™ III device design is based on a foundation of clot science research<sup>2,5</sup>

# Maximize Your First Pass Success<sup>6</sup>

## Neuro Thromboembolic Initiative Research

■ **ORIGIN:** Thromboembolic clots exhibit different composition profiles and pose different challenges to retrieval<sup>3</sup>

■ **MECHANICAL TESTING:** The degree to which a clot compresses and fragments as well as the friction profile of a clot with a blood vessel wall influences the ease of retrieval<sup>4,8</sup>

■ **OCCLUSION MODELING:** Advanced modeling simulations allow rapid testing and development of next generation stent retriever technologies<sup>7</sup>

■ **COMPOSITION:** The red blood cell, fibrin, white blood cell and platelet composition of a clot impacts how it integrates with a stent retriever and its ease of retrieval<sup>5</sup>

■ **IMAGING:** Scanning electron microscope (SEM) imaging research informs how clots stretch and rupture during interaction with a stent retriever<sup>8</sup>

■ **PROCEDURAL TECHNIQUE:** Variations in set up, approach and retrieval technique directly impact the ability to retrieve blood clots<sup>1</sup>



## Design

### clot capture

- more dense distal mesh with smaller pore size<sup>a,7</sup>
- larger inlet widows to allow clot to enter and engage with the device<sup>a,7</sup>
- larger cell size to engage with a wider range of clot types and sizes<sup>a,7</sup>

### procedural confidence

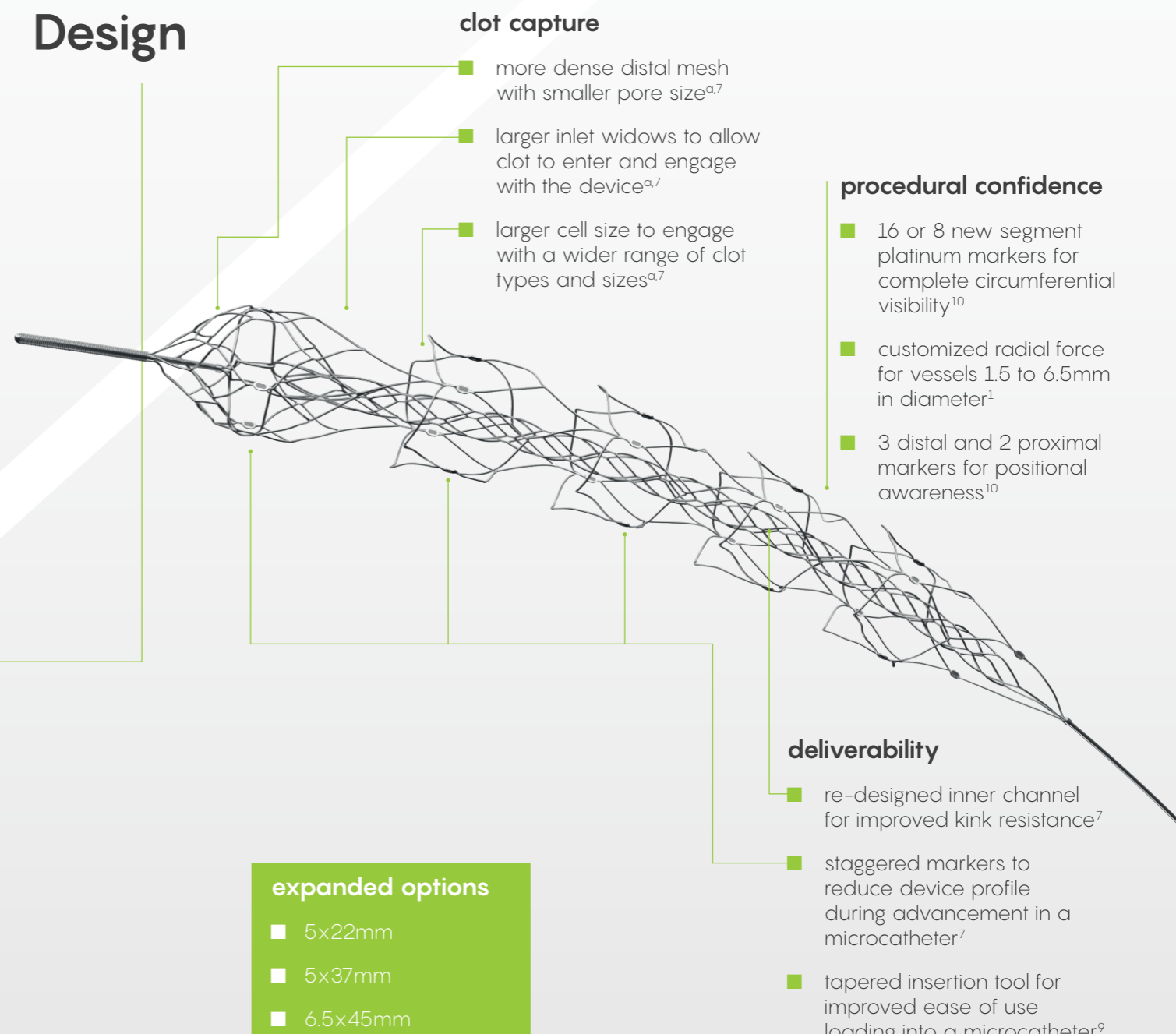
- 16 or 8 new segment platinum markers for complete circumferential visibility<sup>10</sup>
- customized radial force for vessels 1.5 to 6.5mm in diameter<sup>1</sup>
- 3 distal and 2 proximal markers for positional awareness<sup>10</sup>

### deliverability

- re-designed inner channel for improved kink resistance<sup>7</sup>
- staggered markers to reduce device profile during advancement in a microcatheter<sup>7</sup>
- tapered insertion tool for improved ease of use loading into a microcatheter<sup>9</sup>

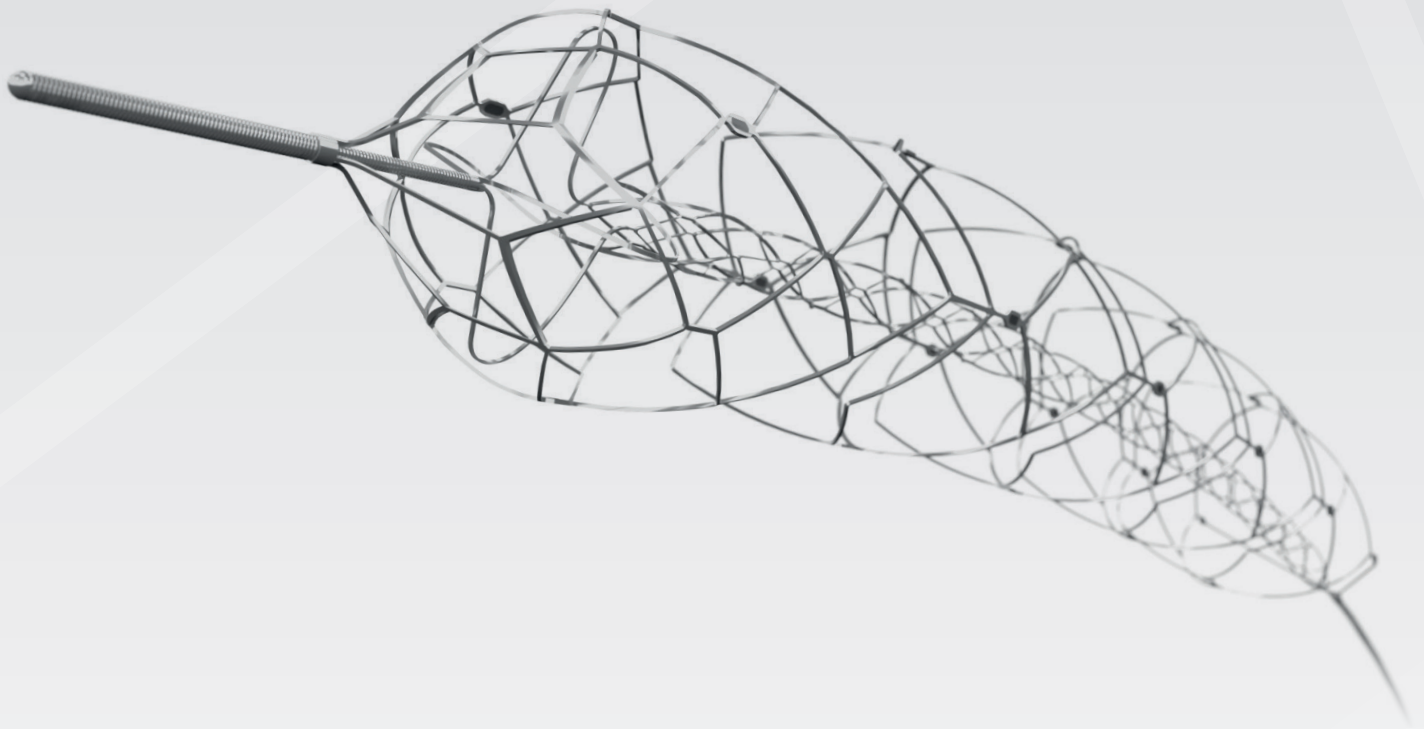
### expanded options

- 5x22mm
- 5x37mm
- 6.5x45mm



# EMBOTRAP™ III

revascularization device



## EMBOTRAP™ III Revascularization Device<sup>1</sup>

Product Code	Outer Cage Diameter	Recommended Vessel Diameter	Working Length	Push Wire Length	Overall Length	Microcatheter compatibility	Radiopaque Tip Length	Proximal coil length	Number of Radiopaque Markers		
									Proximal	Body	Distal
ET307522	5mm	1.5-5.0mm	22mm	188cm	194cm	0.021 <sup>a</sup>	4mm	20mm	2	8	3
ET307537	5mm	1.5-5.0mm	37mm	188cm	195cm	0.021 <sup>a</sup>	4mm	20mm	2	16	3
ET307645	6.5mm	1.5-6.5mm	45mm	188cm	196cm	0.021 <sup>a</sup>	4mm	20mm	2	16	3

<sup>a</sup> Compared to EMBOTRAP™ II

<sup>1</sup> CERENOVUS, Test Report TR371 Revision 01 Embotrap III Evidence Generation, Data on file.

<sup>2</sup> CERENOVUS, EMBOTRAP III Evidence Generation — Dimensional and Geometric Features TR274, July 2020, Data on File.

<sup>3</sup> Duffy S, et al Per-Pass Analysis of Thrombus Composition in Patients With Acute Ischemic Stroke Undergoing Mechanical Thrombectomy. Stroke. 2019;50:1156-1163.

<sup>4</sup> Gunning GM, et al. Clot friction variation with fibrin content; implications for resistance to thrombectomy. J NeuroIntervent Surg. 2018;10:34-38.

<sup>5</sup> Weafer FM, et al. Characterization of strut indentation during mechanical thrombectomy in acute ischaemic stroke clot analogs. J NeuroIntervent Surg. 2019;0:1-7.

<sup>6</sup> Zaidat O, et al. Primary Results of the Multicentre ARISE II Study (Analysis of Revascularization in Ischemic Stroke With EmboTrap). Stroke. 2018;49:00-00.

<sup>7</sup> CERENOVUS, TR 374 EMBOTRAP III Evidence Generation — Performance Evaluations, Data on File.

<sup>8</sup> Johnson S, et al. Mechanical behaviour of in vitro blood clots and the implications for acute ischemic stroke treatment. J NeuroIntervent Surg. 2019;0: 1-6.

<sup>9</sup> CERENOVUS, Test report, EMBOTRAP III Microcatheter Compatibility Evaluations TR286, Data on file.

<sup>10</sup> CERENOVUS, CS162 IFU ET III EMEA, February 2020, Data on file

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**Important information:** Prior to use, refer to the instructions for use supplied with this device for indications, contraindications, side effects, warnings and precautions.

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