Introducer Sheath

Distal markers

Usable length

Distal and proximal markers ensure that the exact position of Solitaire AB is always known.

Visualization

Optimal Delivery and Coil Mass Support

Push wire

Proximal marker

Total length

Detachment zone

Solitaire™ AB - Device selection

<table>
<thead>
<tr>
<th>Reference</th>
<th>Recommended微小导管 ID (in.)</th>
<th>Barbed End</th>
<th>Usable Length (mm)</th>
<th>Total Length (mm)</th>
<th>Maximum Microwire Diameter (mm)</th>
<th>Distal Markers</th>
<th>Proximal Markers</th>
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<tbody>
<tr>
<td>SAB-4-15</td>
<td>0.018</td>
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</table>

Note: It is recommended to use the ev3 Rebar™ Microcatheter for the delivery of Solitaire™ AB.

Rebar™ - Device selection

<table>
<thead>
<tr>
<th>Reference</th>
<th>Coder Size</th>
<th>Usable Length (mm)</th>
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<tbody>
<tr>
<td>105-5081-153</td>
<td>18</td>
<td>153</td>
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<tr>
<td>105-5082-130</td>
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<tr>
<td>105-5082-145</td>
<td>27</td>
<td>145</td>
</tr>
</tbody>
</table>

*Dual Marker Band

Recommended Vessel Size (mm)

- 3.0 – 4.0
- 3.0 – 4.0
- 5.0 – 6.0
- 5.0 – 6.0

Solitaire™ AB - Detachment box

Fully deployable.

Completely retrievable.

Solitaire™ AB Neurovascular Remodeling Device

Find out more at ev3.net
Distal and proximal markers ensure that the exact position of Solitaire AB is always known.
**Solitaire™ AB Neurovascular Remodeling Device**

is the only self-expanding stent designed for bridging the neck of aneurysms that can be completely retrieved, even when fully deployed for unmatched procedural control.

**Ease of delivery**
- Designed for single-operator delivery and deployment
- Delivery through a standard 0.021" or 0.027" microcatheter on a 0.016" pushwire means superior placement can be detached before or after coil embolization

**Accuracy and deployment control**
- Only Solitaire AB allows for multiple retrieval, even after full deployment for adjustment and optimal coil mass support due to:
  - High cell deformation resistance
  - Closed cell design

**Optimal coil mass support**
- Designed for optimal vessel conformability. Due to its unique self-expanding Nitinol design, Solitaire AB easily adapts to the tortuous path of vessels
- Its open slit, closed cell design gives Solitaire AB an optimal radial force with good kink resistance

**Clinical successes**
- Moret, LINNC, 2008
  - High cell deformation resistance
  - Optimal coil mass support
  - Accuracy and deployment control
  - Ease in delivery

**The difference is in the design**
- Flexibility / lumen conformability
  - The unique overlap design of Solitaire AB gives flexibility and allows for conformance to the vessel while minimizing straightening of the vessel

- Radial force
  - Solitaire AB has a radial force that allows for flexibility and optimal coil mass support due to:
    - Closed cell design
    - High cell deformation resistance

- Wall apposition
  - Due to its unique overlap design, Solitaire AB provides excellent wall apposition for stability in the vessel and radial strength to support the coil mass

**Cell overlap**
- The Solitaire closed cell design provides optimum scaffolding to prevent coil herniation into intimal prolapse into the parent artery

**Table 1: Radial Force vs. Unit Length**

<table>
<thead>
<tr>
<th>Radial Force per Unit Length (N/mm)</th>
<th>2.4 mm Bend Radius</th>
<th>2.8 mm Bend Radius</th>
<th>3.2 mm Bend Radius</th>
<th>3.5 mm Bend Radius</th>
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</thead>
<tbody>
<tr>
<td>Solitaire AB</td>
<td>4.03</td>
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<td>Neuroform</td>
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<td>1.71</td>
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<td>Wingspan</td>
<td>1.39</td>
<td>1.36</td>
<td>1.34</td>
<td>1.32</td>
</tr>
</tbody>
</table>
| Solitaire AB Cell Overlap for various vessel diameters for 4 mm device

**Figure 1: Solitaire AB Cell Overlap**

[Figure showing cell overlap for various vessel diameters]
Solitaire™ AB Neurovascular Remodeling Device is the only self-expanding stent designed for bridging the neck of aneurysms that can be completely retrieved, even when fully deployed for unmatched procedural control.

Clinical successes

Moret
LINNC, 2008

- Both stent and proximal aneurysm necks covered with smooth muscle
- Deeply relieved aneurysm
- Complete occlusion
- Excellent coil mass support
- Accuracy and deployment control
- Ease in delivery

Cekirge
J Neuroradiol 107, 2007

- Intravascular and intradural fibrinolytic agent
- Open aneurysm
- Symmetrical distal and proximal vessels
- Excellent coil mass support
- Immediate stent retrieval before or after coil placement
- Excellent conformability
- Excellent coil mass support
- Good kink resistance

Liebig, Henkes
Neuroradiology, 2006

- Aneurysm neck was opened with a stent-assisted coil
- Final angiogram with a number of loosely placed coils
- Excellent coil mass support
- Good conformability
- Lack of kinking
- Delivery through a standard 0.021” or 0.027” micro catheter on a 0.016” pushwire
- Superior placement

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- Only Solitaire AB allows for multiple retrieval, even after full deployment for adjustment and superior placement
- Features electrolytic detachment for control of detachment after deployment. Solitaire AB can be detached before or after coil embolization
- When not detached, Solitaire AB can be safely left or placed without risk of migration of the stent during coil placement or balloon use

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Clinical successes

Moret
- Narrow and parallel anastomosis
- Advantages: simplicity, accuracy and deployment control
- Ease in delivery
- Lack of kinking
- Favorable stent opening
- Coverage of the neck

Cekirge
- Initial diagnostic MRA angiogram, demonstrating a symptomatic wide-necked aneurysm and narrow parent vessel.
- Nonsubtracted view showing deployed but not detached SOLO* stent across the aneurysm neck. Three metallic markers are indicated by arrows. A 4x7 mm HyperForm™ Balloon (arrowheads) was positioned within the aneurysm, allowing balloon-assisted coil insertion and embolization.
- Immediately post-procedural angiogram showing complete occlusion of the aneurysm.
- Six-month follow-up angiogram, revealing stable complete occlusion.

Liebig, Henkes
- Progress of the treatment. $A$, $B$, and pretreatment. $C$, $D$: transcranial AB coil deployment,
- Initially, the aneurysm was occluded with a single coils and a number of loosely fitting coils
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The difference is in the design

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Cell overlap
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Solitaire AB Cell Overlap for various vessel diameters for 4 mm device

Coverage at the neck
- Note the difference in terms of vessel diameter that does not favoritize stent opening

Optimal coil mass support
- Designed for single-operator delivery and deployment
- Delivery through a standard 0.021" or 0.027" micro catheter on a 0.016" pushwire means Solitaire AB delivers just like a coil
Distal markers ensure that the exact position of Solitaire AB is always known.

**Optimal Delivery and Coil Mass Support**

- Total length
- Usable length
- Distal markers
- Proximal marker
- Push wire
- Detachment zone
- Introducer sheath

**Visualization**

Distal and proximal markers ensure that the exact position of Solitaire AB is always known.

---

**Solitaire™ AB - Device selection**

<table>
<thead>
<tr>
<th>Reference Number</th>
<th>Recommended Microcatheter ID (in.)</th>
<th>Maximum Push Wire (in.)</th>
<th>Distal Markers</th>
<th>Proximal Markers</th>
<th>Total Length (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SAB-4-15</td>
<td>0.018</td>
<td>0.021</td>
<td>1</td>
<td>1</td>
<td>26</td>
</tr>
<tr>
<td>SAB-4-20</td>
<td>0.018</td>
<td>0.021</td>
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<td>31</td>
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</tbody>
</table>

**Rebar™ - Device selection**

<table>
<thead>
<tr>
<th>Reference Number</th>
<th>Recommended Microcatheter ID (in.)</th>
<th>Maximum Push Wire (in.)</th>
<th>Distal Markers</th>
<th>Proximal Markers</th>
<th>Usable Length (mm)</th>
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<tbody>
<tr>
<td>105-5082-153</td>
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<td>0.027</td>
<td>1</td>
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<td>145</td>
</tr>
</tbody>
</table>

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*It is recommended to use the ev3 Rebar™ Microcatheter for the delivery of Solitaire™ AB.

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**Fully deployable. Completely retrievable.**

Solitaire™ AB
Neurovascular Remodeling Device

---

**Reference Number**

- SAB-4-15
- SAB-4-20
- SAB-6-20
- SAB-6-30

**Recommended Vessel Size (mm)**

- 3.0 – 4.0
- 3.0 – 4.0
- 5.0 – 6.0
- 5.0 – 6.0

**Distal Markers**

- 3
- 3
- 4
- 4

**Proximal Markers**

- 1
- 1
- 1
- 1

**Diameter (mm)**

- 4
- 4
- 6
- 6

**Usable Length (mm)**

- 15
- 20
- 20
- 30

---

**Rebar™ - Device selection**

<table>
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<tr>
<th>Reference Number</th>
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<td>105-5083-153</td>
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<tr>
<td>105-5082-130</td>
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<tr>
<td>105-5082-145</td>
<td>0.027</td>
<td>0.027</td>
<td>145</td>
</tr>
</tbody>
</table>

---

**Solitaire™ AB - Detachment box**

**Note:** It is recommended to use the ev3 Rebar™ Microcatheter for the delivery of Solitaire™ AB.

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**Indications, contraindications, warnings and instructions for use can be found in the product labeling supplied with each device.**

**Solitaire AB Neurovascular Remodeling Device is designed for the treatment of intracranial neurovascular disease. Not approved for sale in the U.S.**

**Solitaire and Rebar are trademarks of Micro Therapeutics, Inc., d/b/a ev3 Neurovascular. Other names appearing in this document are the property of their respective owners.**