Endovascular repair of the aortic arch made easy and reliable

NEXUS™ is manufactured by Endospan Ltd.
NEXUS™ Aortic Arch Stent Graft System is the innovative solution that transforms complex aortic arch surgical repair into a minimally invasive endovascular procedure.

The integrated branch provides sealing and fixation in the brachiocephalic artery, stabilizing the implantation and contributing to exclude the aneurysm.

Main Module with integrated branch
Unique design that allows adaptability to a wide range of anatomies

Oriented Ascending Module
Pre-curved shape allows natural alignment to the ascending aorta, maximizing fixation and sealing

Tips of the stent graft oriented along the outer curve of the ascending aorta are bent inwards to provide atraumatic durable fixation

Locking latches

Designed for long lasting effectiveness

Every detail of the NEXUS™ Aortic Arch Stent Graft System has been designed to provide durable effective results. Disconnection of the modules is prevented by the proprietary locking system, where the locking latches engage the inner stent graft of the docking sleeve.

Proprietary docking sleeve that consistently locks and seals with the ascending module
Designed for safety

Since neurological complications are among the most devastating complications of TEVAR in the arch, NEXUS™ has been designed with many features to minimize this risk.

**Lower profile 20 F system for greater access confidence**
Can be introduced in vessels diameter as small as 7 mm reducing concerns for access complications.

**Anatomically pre-shaped delivery systems**
- Pre-shaped Main Module delivery system
- Pre-curved Ascending Module delivery system

The main body is advanced using a through-and-through technique between the main access and the right subclavian artery, avoiding manipulation in the right common carotid artery.

**Dual High Flush ports for reduced embolic risks**
Dual High Flush ports maximise clearance of residual air from delivery system.

Simple and controlled 2-stage procedure

The implantation consists of a first surgical stage, where the left common carotid (and left subclavian) artery is rerouted, followed later by the endovascular stage.

**Deployment steps**
- Main Module deployment
- Ascending Module insertion & positioning
- Ascending Module deployment
- Final result
NEXUS™ Aortic Arch Stent Graft System is available in a range of sizes that can adapt to a wide range of anatomies.

**Main Module**

<table>
<thead>
<tr>
<th>Diameter (mm)</th>
<th>Length (mm)</th>
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<tbody>
<tr>
<td>Branch</td>
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<tr>
<td>14</td>
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<td>17</td>
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<tr>
<td>20</td>
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<td>Main Body</td>
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**Ascending Module**

<table>
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<th>Diameter (mm)</th>
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<tr>
<td>Oriented</td>
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</tr>
</tbody>
</table>

*all possible combinations of diameter and length are available

**NEXUS™ Anatomical indications**

**Ascending Aorta**
- Diameter of 29-39 mm
- Landing zone length of at least 30 mm

**Descending Aorta**
- Diameter of 26-40 mm
- Landing zone length of at least 30 mm

**Brachiocephalic trunk**
- Diameter of 11.5-18.5 mm
- Landing zone length of at least 20 mm
- Take off angle between the brachiocephalic artery and the aortic arch perpendicular should be ≥ 125°

NEXUS™ - the only CE marked endovascular branch system for the aortic arch. Ready when you are!