

Endovascular Repair of the Aortic Arch Made Easy and Reliable



Designed for the Aortic Arch

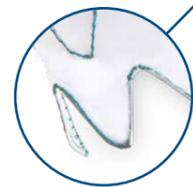
NEXUS® Aortic Arch Stent Graft System is the innovative solution that transforms complex aortic arch surgical repair into a minimally invasive endovascular procedure.

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

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

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

MAIN MODULE WITH INTEGRATED BRANCH

Unique design that allows adaptability to a wide range of anatomies

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.

Locking latches



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

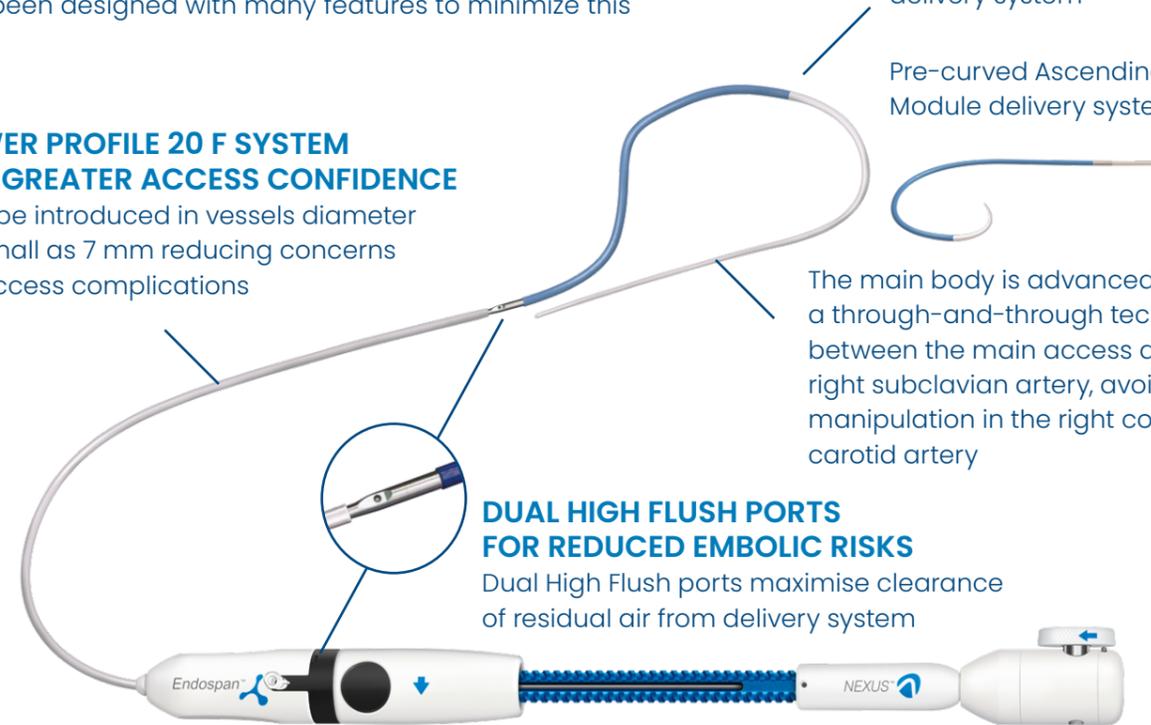
Pre-shaped Main Module delivery system

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

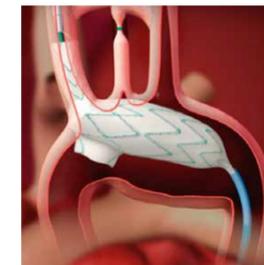


Simple and controlled 2-stage procedure

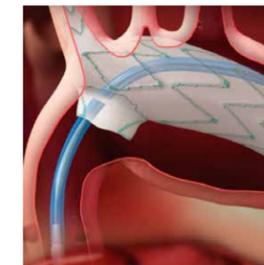
The implantation consists of a first surgical stage, where the left common carotid (and left subclavian) artery is rerouted, followed later by the endovascular stage.

Deployment steps

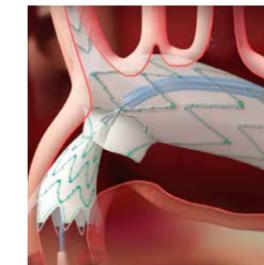
Main Module deployment



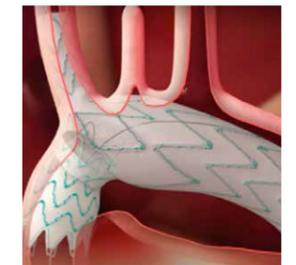
Ascending Module insertion & positioning



Ascending Module deployment



Final result



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Ordering Information

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NEXUS® Aortic Arch Stent Graft System is available in a range of sizes that can adapt to a wide range of anatomies.

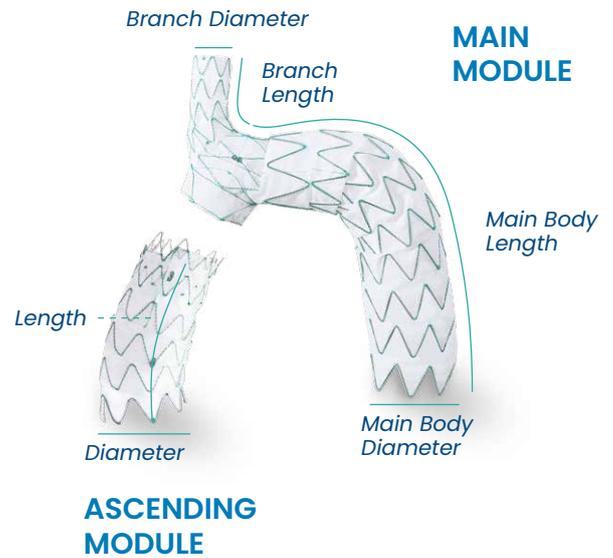
Main Module*

	Diameter (mm)	Length (mm)
Branch	14	20
	17	30
	20	40
Main Body	32	180
	36	180
	40	180
	44	180

Ascending Module*

	Diameter (mm)	Length (mm)
Oriented	36	40
	40	55
	43	70

* all possible combinations of diameter and length are available



NEXUS® ANATOMICAL INDICATIONS

Ascending Aorta

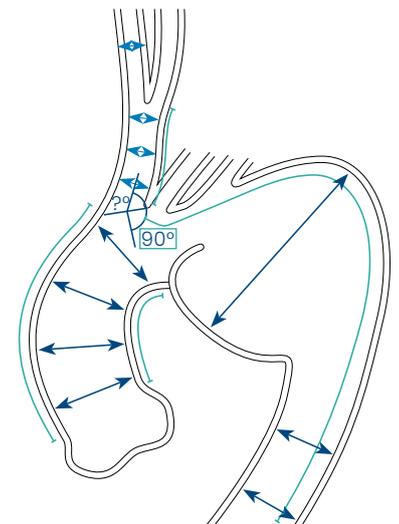
- Diameter of 29-39 mm
- Landing zone length of at least 30 mm

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 $\geq 125^\circ$



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

ARTIVION™

Learn more at [artivion.com](https://www.artivion.com)

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JT-BR-0050200-EN V03 07/2023