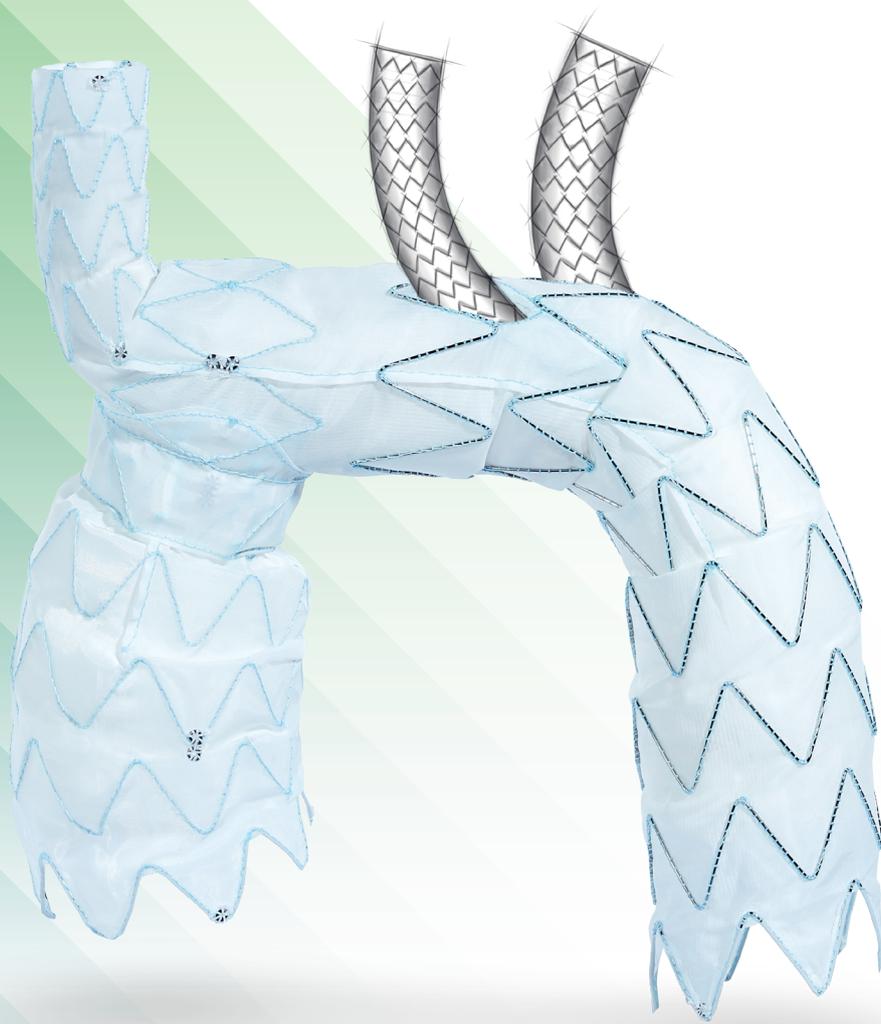


# NEXUS<sup>®</sup> for the ARCH.



# Engineered for the Most Demanding Aortic Region

## OPTIMIZED BLOOD FLOW WITH INTEGRATED BRANCH DESIGN

Optimize flow by maximizing the main lumen, ensuring smooth antegrade blood flow, reducing turbulence, and promoting efficient hemodynamics to lower cardiac workload.<sup>1</sup>

## DOCK & LOCK TECHNOLOGY

Two distal struts with locking latches open inside the dock providing mechanical fixation to create a 25 mm sealing length with a 20% oversize.

## STENTS INWARDLY BENT TO MINIMIZE WALL STRESS

Tips of the stents oriented along the outer curve of the ascending aorta are bent inwards to provide atraumatic interface between the stent graft and the aortic wall.

## INNER BRANCH DESIGN FOR CAROTID AND SUBCLAVIAN\*

The inner branch delivers sealing and fixation zones for the covered stent. Its retrograde design allows for transfemoral introduction of all components while supporting future reinterventions from the supra-aortic vessels.

## THE NEXUS® PLATFORM IS A BIMODULAR SYSTEM DESIGNED TO MIMIC THE ASCENDING AND ARCH ANATOMY

The **arch component**, featuring an integrated branch, is designed to align seamlessly with the natural arch anatomy.

The **ascending component** is designed with a long outer curve, and a short inner curve to ensure optimal positioning and reliable deployment.

# NEXUS<sup>®</sup> Delivery System Designed For Safety

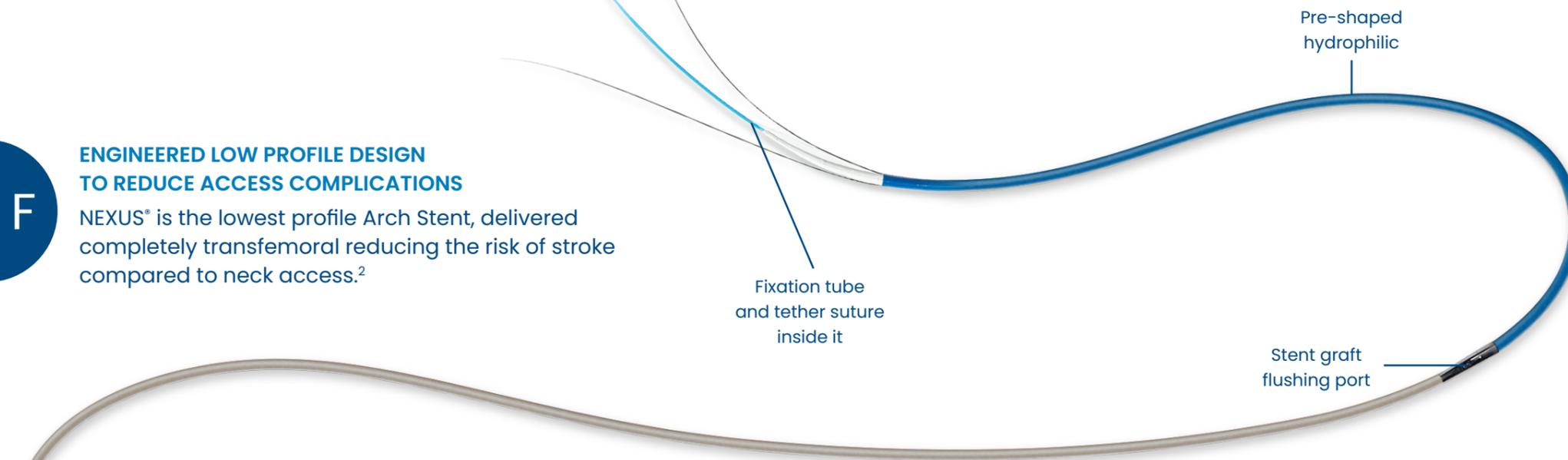
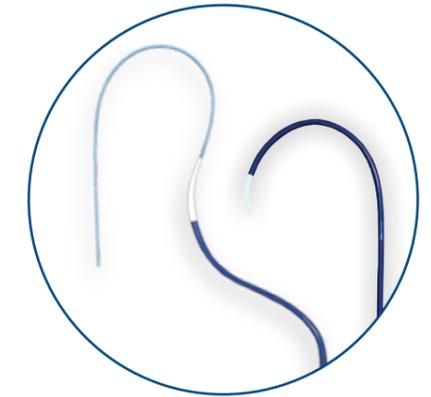
20 F

## ENGINEERED LOW PROFILE DESIGN TO REDUCE ACCESS COMPLICATIONS

NEXUS<sup>®</sup> is the lowest profile Arch Stent, delivered completely transfemoral reducing the risk of stroke compared to neck access.<sup>2</sup>

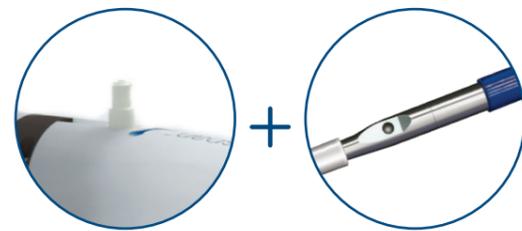
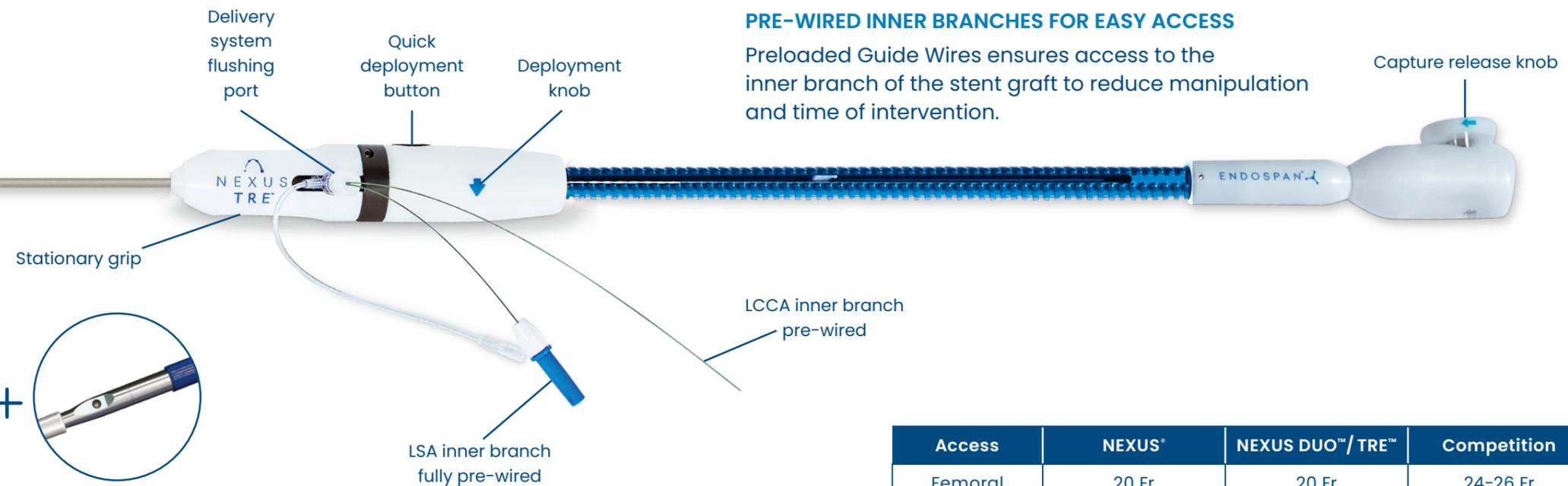
## PRE-SHAPED CATHETER TO MINIMIZE ARCH MANIPULATION

Designed to follow the natural curves of the aortic arch to reduce manipulation and improve stent conformability during deployment.



## PRE-WIRED INNER BRANCHES FOR EASY ACCESS

Preloaded Guide Wires ensures access to the inner branch of the stent graft to reduce manipulation and time of intervention.



## AIR EMBOLISM REDUCTION THROUGH ADVANCED DUAL FLUSHING PORTS

The dual flushing ports in the delivery system are designed to maximize air removal from the sheath, a risk factor for stroke.<sup>3</sup>

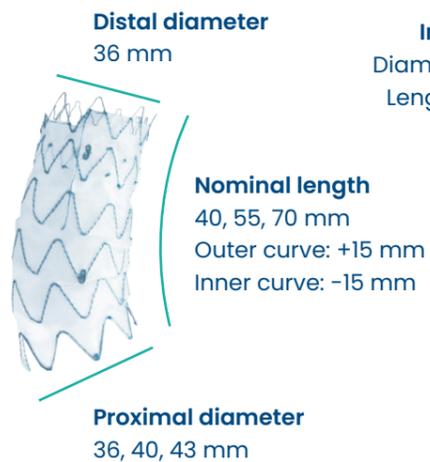
Access	NEXUS <sup>®</sup>	NEXUS DUO™/TRE™	Competition
Femoral	20 Fr	20 Fr	24-26 Fr
RCCA			14 F
LCCA			14 F
RAA	7 Fr	7 Fr	

Engineered Low Profile Design.

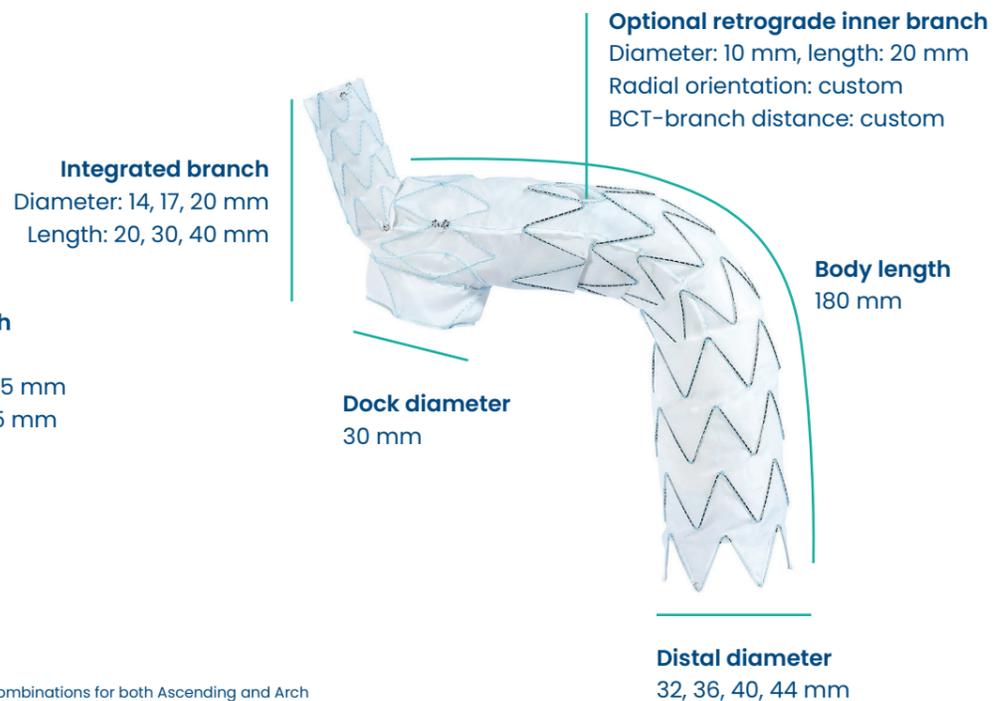
# Ordering Information

18 Configurations

## ASCENDING STENT GRAFT



## ARCH STENT GRAFT

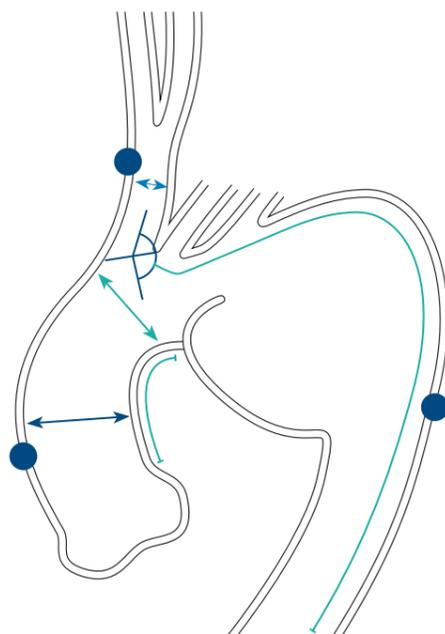


Device available in all diameter and length combinations for both Ascending and Arch

## Indications

	Diameter	Landing zone length
<b>Brachiocephalic trunk</b>	11.5-19 mm	≥ 20 mm BCT – Aortic arch take off angle ≥ 125°
<b>Ascending aorta</b>	30* ≤ $\varnothing$ < 40 mm	≥ 30 mm
<b>Descending aorta</b>	26 ≤ $\varnothing$ < 40 mm	≥ 30 mm
<b>Access vessels</b>	Iliac or femoral artery suitable for 20 F sheath RAA suitable for 7 F sheath	

\*If a pre-implanted surgical graft with a minimal diameter of 26 mm is present, the NEXUS® Ascending Stent Graft with a diameter of 36 mm can still be used.



# The NEXUS® Portfolio



**NEXUS ONE™**  
BY ENDOSPAN | AORTIC ARCH STENT GRAFT SYSTEM

Off-the-Shelf



**NEXUS DUO™**  
BY ENDOSPAN | AORTIC ARCH STENT GRAFT SYSTEM CUSTOM-MADE DEVICE

Custom-Made in 4 Weeks



**NEXUS TRE™**  
BY ENDOSPAN | AORTIC ARCH STENT GRAFT SYSTEM CUSTOM-MADE DEVICE

Custom-Made in 4 Weeks

# ARTIVION™

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

1. Sengupta S, Hamady M, Xu XY. Haemodynamic Analysis of Branched Endografts for Complex Aortic Arch Repair. *Bioengineering (Basel)*. 2022 Jan 18;9(2):45. doi: 10.3390/bioengineering9020045. PMID: 35200399; PMCID: PMC8868591.

2. Association of upper extremity and neck access with stroke in endovascular aortic repair Plotkin, Anastasia et al. *Journal of Vascular Surgery*, Volume 72, Issue 5, 1602 - 1609

3. Data on file

**Notice:** The manufacturer, Endospa Ltd., assumes full responsibility for all regulatory compliance and certifications associated with this product. Artivion EMEA GmbH functions solely as a distributor/reseller and is not responsible for the regulatory content of the marketing materials.

**Caution:** Investigational Device - Limited by United States law to investigational use. Notice of Availability - Physician Referrals Endospa devices bear the CE marking of conformity. NEXUS DUO™ Aortic Arch Stent Graft and NEXUS TRE™ Aortic Arch Stent Graft System are custom-made devices based on the existing NEXUS® Aortic Arch Stent Graft System, also known as NEXUS ONE™ Aortic Arch Stent Graft System, a CE marked endovascular branch system for the aortic arch.

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