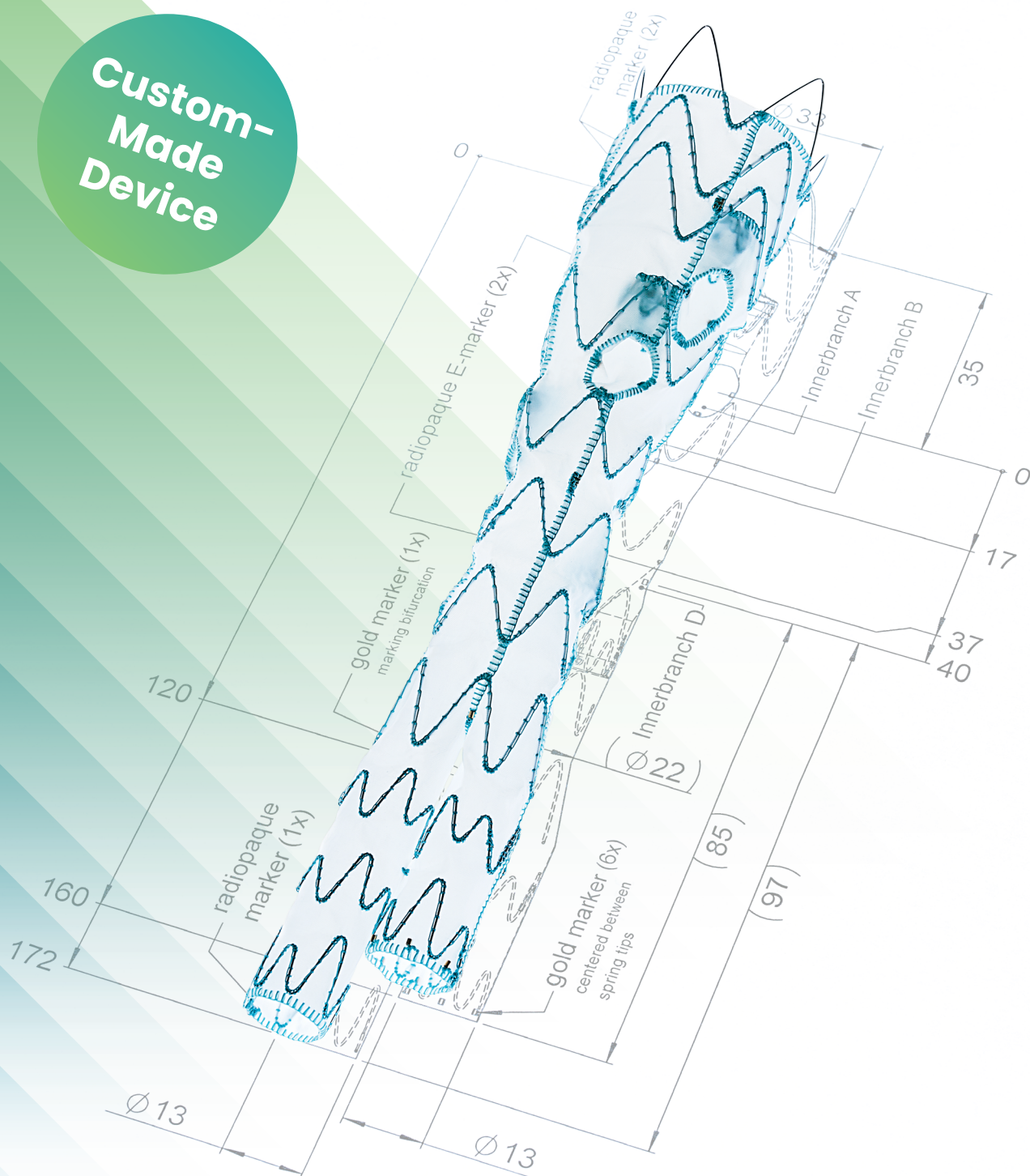


Designed for Patient-Specific Anatomies

Custom-
Made
Device



ARTIVION™

E-xtra Design MultiBranch
Stent Graft System

Meeting the Need with a Custom-Made Solution

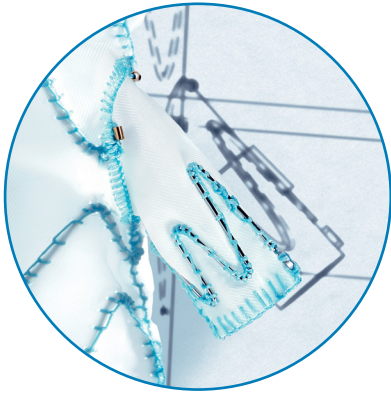
Thoracoabdominal aortic aneurysms (TAAA) are still a major challenge for vascular physicians to deal with. Since the first customised branched endograft that was implanted in 2001, the technology has been evolving to treat patients with varied anatomies and complex pathologies. For more than two decades, E-xtra Design Engineering service has provided physicians with patient-specific solutions for complex endovascular thoracoabdominal repairs.

The E-xtra Design MultiBranch Stent Graft System is indicated for the endovascular treatment of patients with:

- Type I, II, III, IV or V thoracoabdominal aneurysms
- Supra-, para- or juxtarenal abdominal aortic aneurysms
- Dissections extending to the thoracoabdominal aorta

Dimensions	Description
Main lumen	
Diameters	Proximal: 28 - 40 mm Median: 16 - 26 mm Distal: <ul style="list-style-type: none">• Bifurcated shape: 10, 13 mm• Tube shape: 16 - 40 mm
Minimum and maximum covered length (mm)	$105 \leq L \leq 235$ mm
Features	
Design	<ul style="list-style-type: none">• Outer branches• Inner branches• Semi branches• Twin branches• Scallops• Combination of the above mentioned features
Number	2 to 5 features
Dimensions	Diameters, lengths, widths and orientations are patient-specific

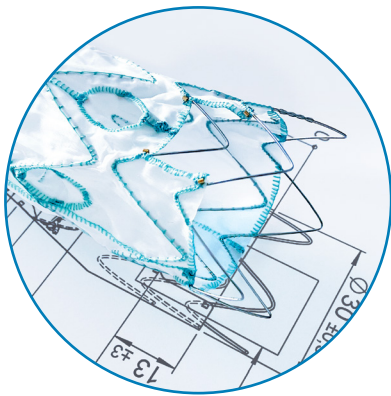
Full Range of Solutions for You



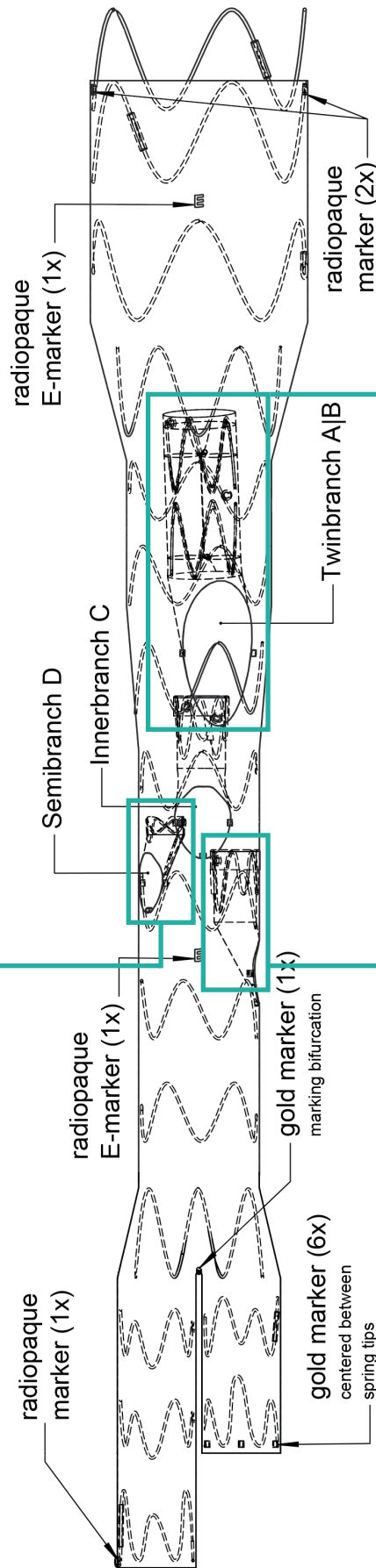
Outer branch



Semi branch



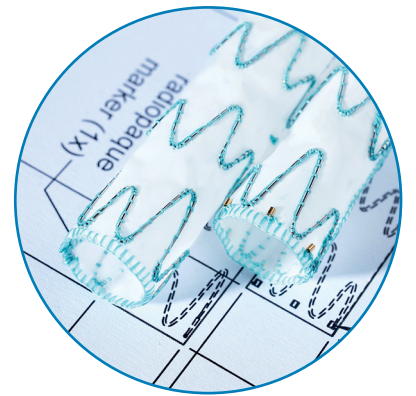
Scallop



Twin branch



Inner branch

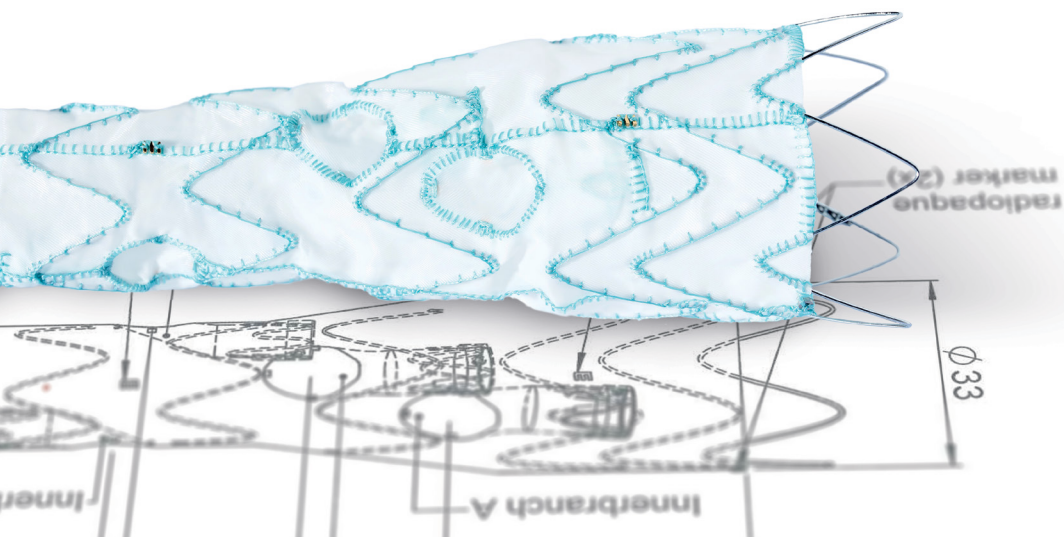
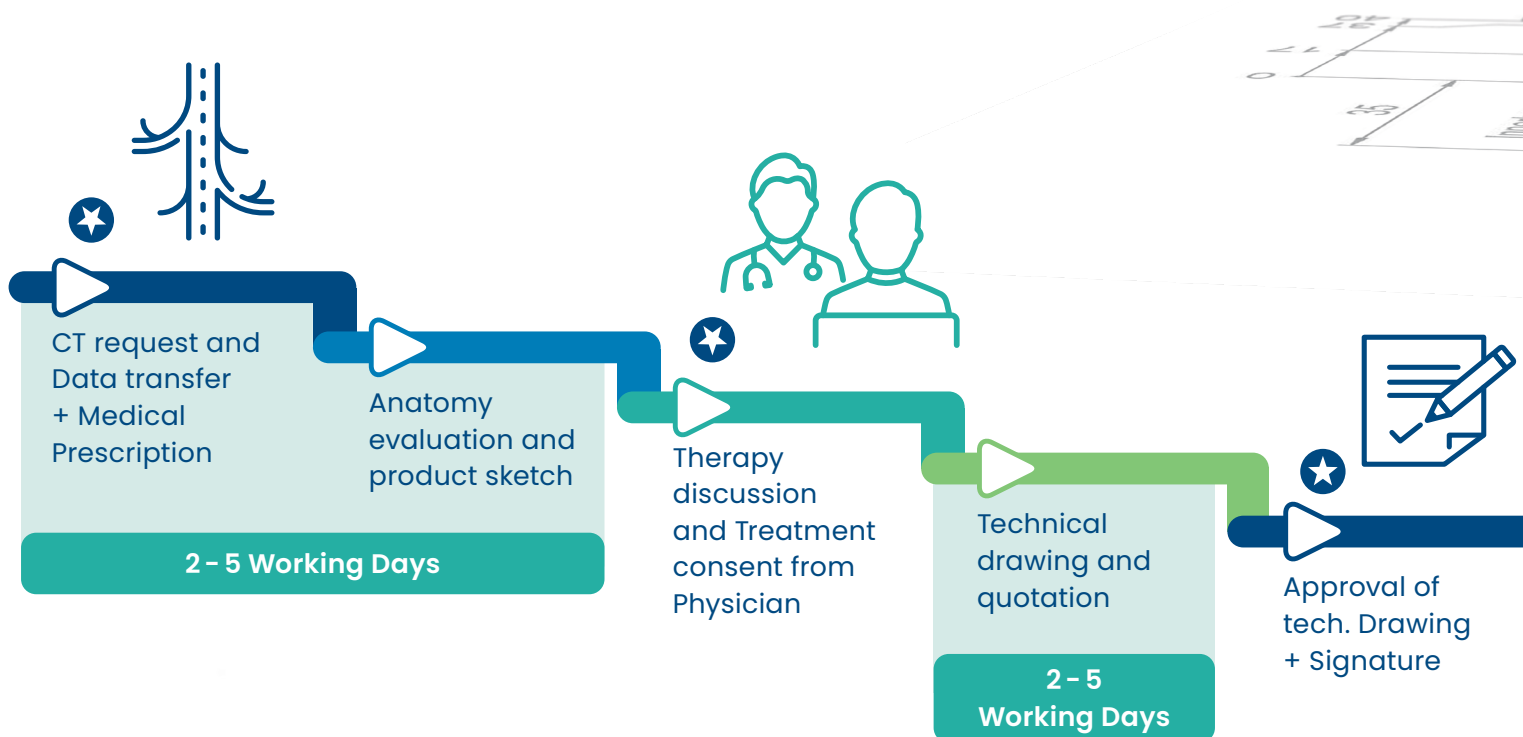


Integrated bifurcation

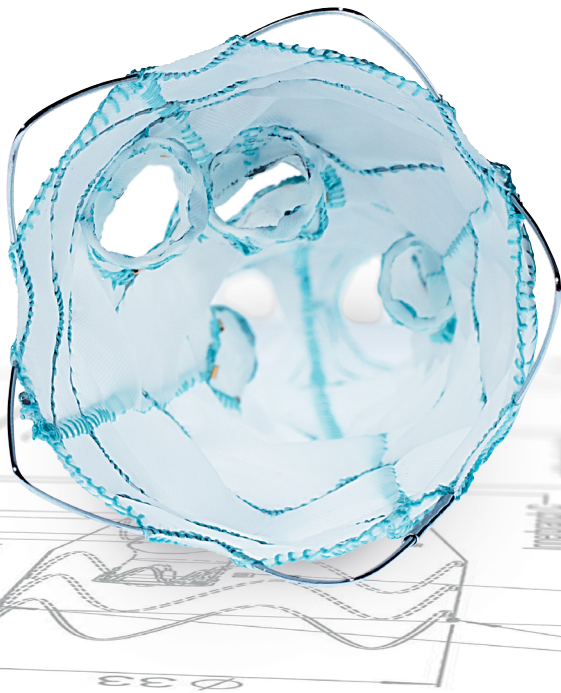
E-xtra Design Engineering Order Process

The **E-xtra Design MultiBranch Stent Graft System** is a tailored solution for the thoracoabdominal aorta and is adapted precisely to each patient's anatomy. The technical realization is planned in close cooperation between physician and manufacturer based on preoperative CT. The final decision about size and design of the stent graft is at the discretion of the physician.

★ Surgeons input is needed at different steps of the process.



Step-by-Step

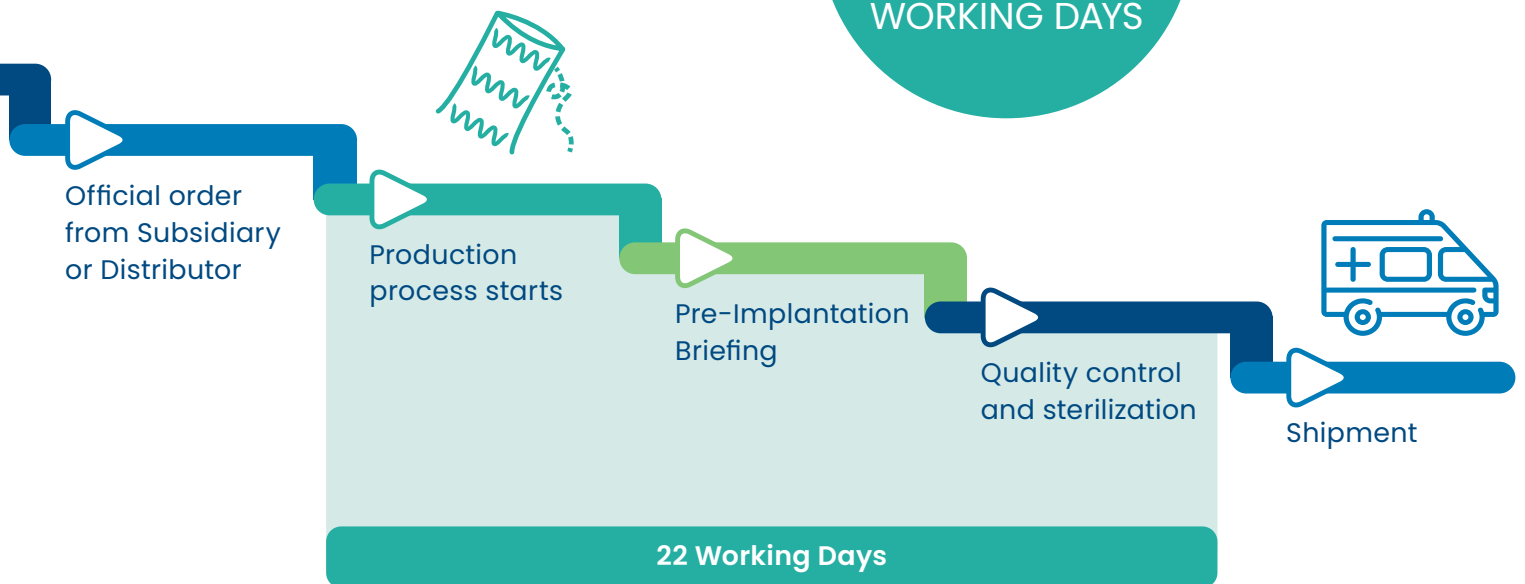


10+
YEARS
OF EXPERIENCE

10,000+
IMPLANTS*

PRODUCED IN
22
WORKING DAYS

* Based on internal global data held within Artivion Inc.



Proven Device through Clinical Evidence

Objectives

Evaluate clinical and technical success as well as safety and feasibility of the **E-xtra Design MultiBranch Stent Graft System**, when used for the treatment of TAAA.

General Study Information

- Observational, prospective, multicenter study
- PCI: Prof. Schelzig, Düsseldorf, Germany
- 44 patients with thoracoabdominal aneurysm were treated
- 8 centers (7 DE, 1 ES)
- 3 years Follow-Up planned
- CoreLab: Dr. Kerezsy, Passau, Germany

Primary Endpoints	N (%) (ITT*=44)
All cause mortality at 30 days	0 (0 %)
Primary technical success	42** (95.5 %)
Reintervention at 30 days (Restoration of renal artery patency)	1 (2.3 %)

* Intent-To-Treat (ITT): defined as all subjects enrolled in the study who attended the procedure

** 2 Patent treated branch vessels 24h after the index procedure

First Interim Results (4–6 weeks Follow-Up)

Results	Other Custom-Made + Standard Multibranch Devices ^{1,2}	CONNECT PMCF Study ³
Early Mortality	3.7 – 8.8 %	0 %
Primary patency	96.6 – 97.3 %	98.1 %
Paraplegia	3.8 – 5 %	4.8 %
Paraparesis	Transient paraparesis: 11.4 % Permanent paraparesis: 2.2 %	2.4 %

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

1. Fernandez, C. C. et al. Standard off-the-shelf versus custom-made multibranch thoracoabdominal aortic stent grafts. *J Vasc Surg* 63, 1208–1215, doi:10.1016/j.jvs.2015.11.035 (2016). 2. Hu, Z. et al. Multibranch Stent-Grafts for the Treatment of Thoracoabdominal Aortic Aneurysms: A Systematic Review and Meta-analysis. *J Endovasc Ther* 23, 626–633, doi:10.1177/1526602816647723 (2016). 3. Data on file at JOTEC GmbH.

Caution: This service is not available in the United States. The availability of custom-made devices is subject to local regulatory guidelines. E-xtra Design MultiBranch Stent Graft System is a custom-made device for a particularly identified patient manufactured by JOTEC GmbH. All trademarks are owned by Artivion, Inc. or its subsidiaries. JOTEC GmbH is a wholly owned subsidiary of Artivion, Inc. © 2023 Artivion

Artivion, Inc., 1655 Roberts Blvd., NW, Kennesaw, GA 30144 USA
Phone: +1-888-427-9654 | Fax: +770-590-3753 | E-mail: inquiries@artivion.com
For contact information by region, please visit: www.artivion.com/contact

 JOTEC GmbH, Lotzenäcker 23, 72379 Hechingen, Germany

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