

Advancing Aortic Technologies
with Purpose™



Our purpose is to develop simple, elegant solutions that address cardiac and vascular surgeons' most difficult challenges in treating patients with diseases of the aorta and to deliver breakthrough technologies of unsurpassed quality that have far-reaching impact.

When the need is aortic, the solution is Artivion

Our intentional focus on the aorta and collaboration with the world's foremost cardiac and vascular surgeons allow us to leverage our combined expertise in the development of new, innovative, life-changing aortic-centric technologies.

NOTE: All products and indications are not available/approved in all markets.
Please contact your local Artivion representative for details.

**Made to fit your patients.
Made to fit you.**



ARTIVION

E-vita[®] Open Neo
Hybrid Stent Graft System

Product Highlights

Based on over ten years of clinical experience, E-vita Open Neo is the next-generation hybrid graft system for aortic arch and descending thoracic aorta repair with the Frozen Elephant Trunk technique.

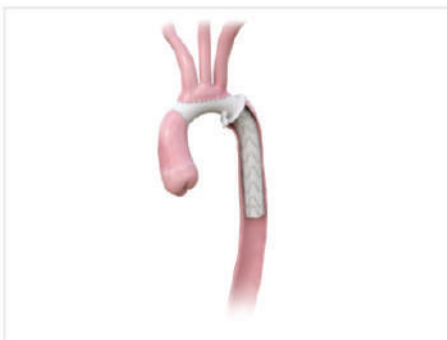


ADAPTING TO PATIENT'S DISEASE

- Each disease requires unique technique and oversizing strategies. E-vita Open Neo has been created with three stent graft configurations and dedicated designs of the vascular and stent graft sections.
- The three diameters of the vascular section allow for reproducible anastomosis. The full range of options of the stent graft section provides adequate oversizing for both aneurysms and dissections.¹

CONTROL IN YOUR HANDS

- The new compact delivery system allows easy positioning of the device, and deployment can be performed in a controlled fashion with progressive expansion of the stent graft section.¹



STRAIGHT CONFIGURATION

Island Technique
Collar Anastomosis in Zone 2/3



BRANCHED CONFIGURATION

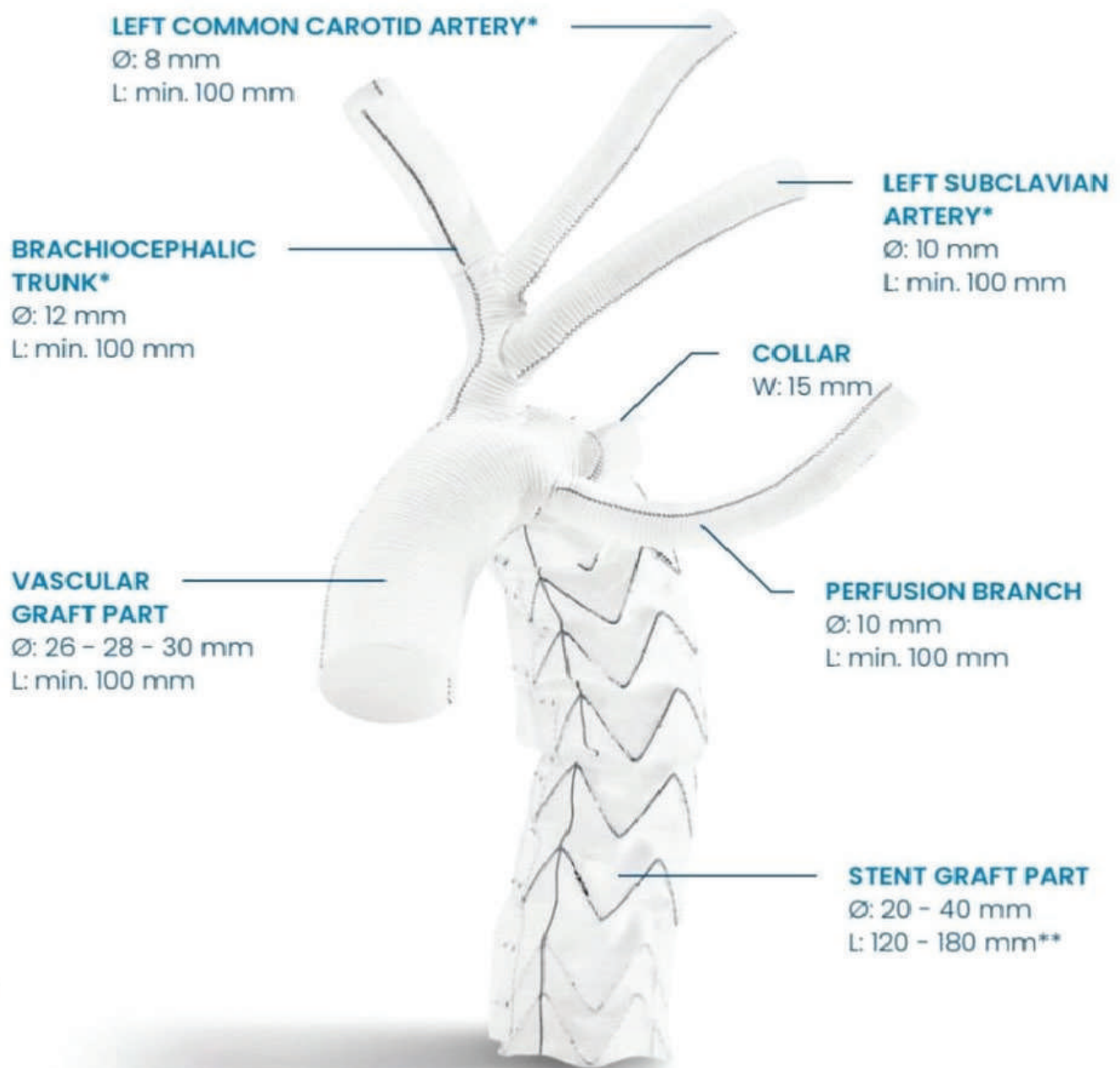
Sequential Anastomoses
Collar Anastomosis in Zone 1/2/3



TRIFURCATED CONFIGURATION

Sequential Anastomoses
Collar Anastomosis in Zone 0/1

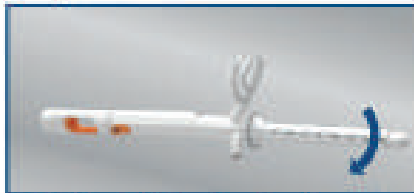
Made to fit Your Patients. Made to fit You.



* branches for supraortic trunks available only on the Branched and Trifurcated configurations
** please refer to the IFU for the specific length of each configuration and diameter

E-vita Open Neo Implantation Technique

Preparation



1 If a guide wire is not used, pre-shape the shaft of the device according to the anatomy and the implantation zone.



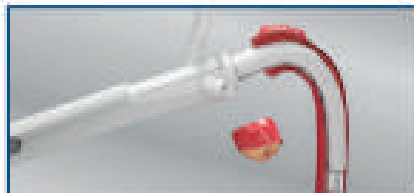
2 If a guidewire is used, remove the protective wire and then load the system on the stiff guide wire that has been previously positioned.



Introduction



3 Introduce the device in the open thoracic aorta over the guide wire, or directly if no wire is used.



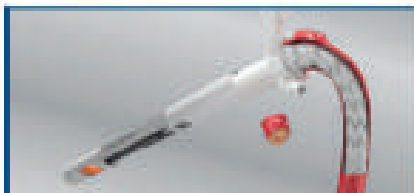
4 Advance the device until the collar aligns with the transected aorta adjusting the orientation to the target position of the head vessels.



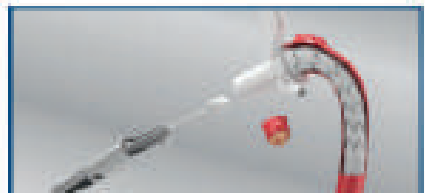
Deployment & Removal



5 Press the orange release trigger and pull the release handle straight backwards.

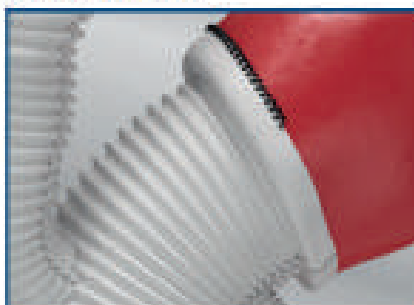


6 Continue retraction until the delivery system locks.



7 Remove the system with a slight rotation. If no guide wire was used, remove the protective flap before device removal.

Conclusion



8 Perform distal anastomosis at the collar. At this point distal body perfusion can begin via the perfusion branch.



9 Perform proximal anastomosis and anastomoses of the head vessel (depending on the chosen design).

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21-0-000000-000-000-000

Always check instructions for use prior application.

Sizing Sheet – Aneurysm

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E-vita[®] Open Neo
Hybrid Stent Graft System

Patient initials

Date of birth

Gender f m

Implantation date

Date of Assessment

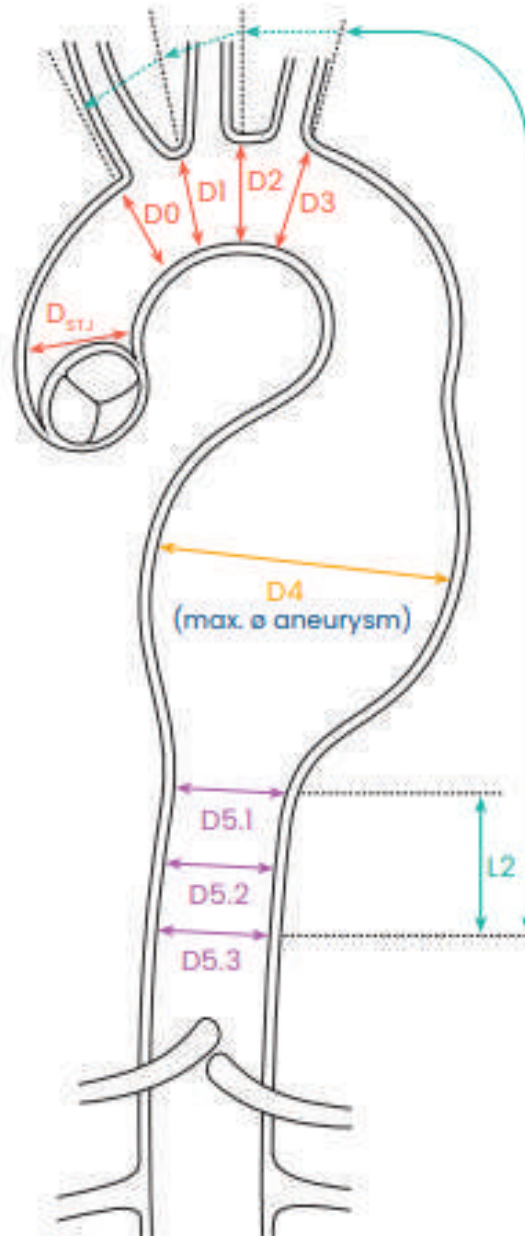
Evaluated by

Hospital/City/Country

Date CT/MRI/Slice thick.

Head vessel diameter [mm]

| BCT | LCCA | LSA |
|----------------------|----------------------|----------------------|
| <input type="text"/> | <input type="text"/> | <input type="text"/> |



Zone of collar anastomosis
0 1 2 3

Aortic arch diameter [mm]

D_{STJ} =

D0 =

D1 =

D2 =

D3 =

Device choice

Device configuration

straight

branched

trifurcated

Diameter aneurysm

D4 =

Length [mm]

L1 =

L2 =

L1 = total outer length
L2 = 25, 28, 33 mm according to the diameter of the device. Please refer to the IFU

Distal sealing zone [mm]

D5.1 =

D5.2 =

D5.3 =

Comments

Ordering Information



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JOTEC GmbH, Lotzenböcker 31, 72376 Hechingen, Germany

JT-SIA-0050200-EN v02 II/2022

Sizing Sheet – Dissection

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E-vita[®] Open Neo
Hybrid Stent Graft System

Patient initials _____
 Date of birth _____
 Gender f m
 Implantation date _____

Date of Assessment _____
 Evaluated by _____
 Hospital/City/Country _____
 Date CT/MRI/Slice thick. _____

Pathology

Acute

Subacute

Chronic

Dissection ends at: _____

Head vessel diameter [mm]

| BCT | LCCA | LSA |
|-----|------|-----|
| | | |

Dissected

Device choice

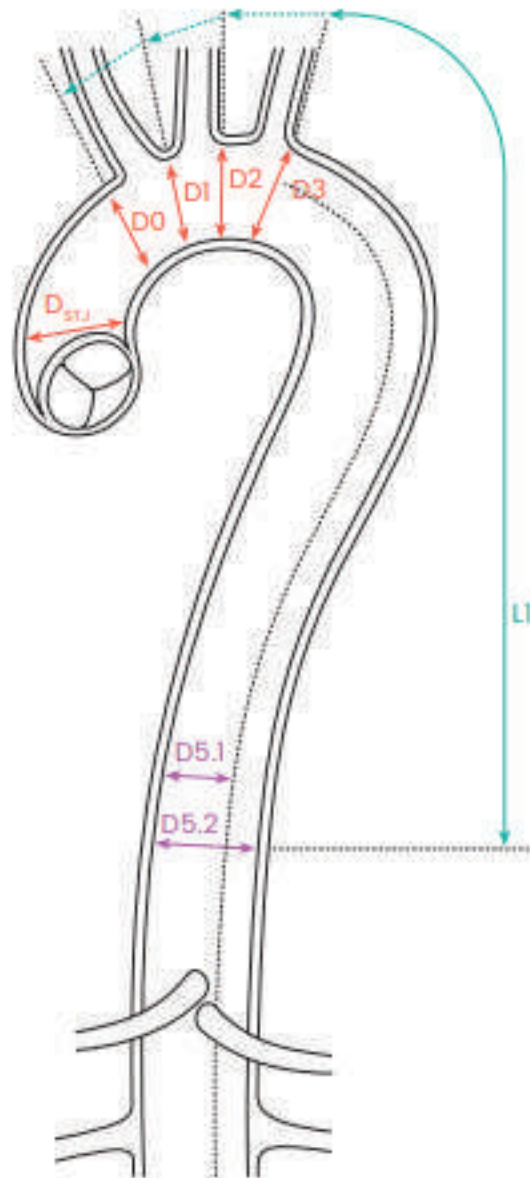
Device configuration

straight

branched

trifurcated

Comments



Zone of collar anastomosis

0 1 2 3

Aortic arch diameter [mm]

D_{stJ} = _____

D0 = _____

D1 = _____

D2 = _____

D3 = _____

Length [mm]

L1 = _____

L1 = total outer length

Distal sealing zone [mm]

D5.1 = _____

D5.2 = _____

Ordering Information



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JT-SIG-0951200-EN V02 11/2022

E-vita® Open Neo

Hybrid Stent Graft System

Ordering Information (all measurements are in mm)

Straight



| Catalog Number | Ø Vascular Graft Part | Ø Stent Graft Part | Length Stent Graft Part |
|------------------|-----------------------|--------------------|-------------------------|
| 95H02620U120-C01 | 26 | 20 | 120 |
| 95H02624U120-C01 | 26 | 24 | 120 |
| 95H02624U175-C01 | 26 | 24 | 175 |
| 95H02626U120-C01 | 26 | 26 | 120 |
| 95H02628U120-C01 | 28 | 28 | 120 |
| 95H02628U180-C01 | 28 | 28 | 180 |
| 95H03030U120-C01 | 30 | 30 | 120 |
| 95H03030U180-C01 | 30 | 30 | 180 |
| 95H03033U130-C01 | 30 | 33 | 130 |
| 95H03033U180-C01 | 30 | 33 | 180 |
| 95H03036U130-C01 | 30 | 36 | 130 |
| 95H03036U180-C01 | 30 | 36 | 180 |
| 95H03040U130-C01 | 30 | 40 | 130 |
| 95H03040U180-C01 | 30 | 40 | 180 |

Branched



| Catalog Number | Ø Vascular Graft Part | Ø Stent Graft Part | Length Stent Graft Part |
|------------------|-----------------------|--------------------|-------------------------|
| 95H02622U120-C02 | 26 | 22 | 120 |
| 95H02624U120-C02 | 26 | 24 | 120 |
| 95H02624U175-C02 | 26 | 24 | 175 |
| 95H02626U120-C02 | 26 | 26 | 120 |
| 95H02626U180-C02 | 26 | 26 | 180 |
| 95H02628U120-C02 | 28 | 28 | 120 |
| 95H02628U180-C02 | 28 | 28 | 180 |
| 95H03030U120-C02 | 30 | 30 | 120 |
| 95H03030U180-C02 | 30 | 30 | 180 |
| 95H03033U130-C02 | 30 | 33 | 130 |
| 95H03033U180-C02 | 30 | 33 | 180 |
| 95H03036U130-C02 | 30 | 36 | 130 |
| 95H03036U180-C02 | 30 | 36 | 180 |
| 95H03040U130-C02 | 30 | 40 | 130 |
| 95H03040U180-C02 | 30 | 40 | 180 |

Trifurcated



| Catalog Number | Ø Vascular Graft Part | Ø Stent Graft Part | Length Stent Graft Part |
|------------------|-----------------------|--------------------|-------------------------|
| 95H02624U175-C03 | 26 | 24 | 175 |
| 95H02626U180-C03 | 26 | 26 | 180 |
| 95H02628U180-C03 | 28 | 28 | 180 |
| 95H03030U180-C03 | 30 | 30 | 180 |
| 95H03033U180-C03 | 30 | 33 | 180 |
| 95H03036U180-C03 | 30 | 36 | 180 |
| 95H03040U180-C03 | 30 | 40 | 180 |

Sizes in italics are available on demand

Vascular Graft Part Length (without tension): 100mm on every configuration and size Perfusion Branch: diameter of 10mm and length without tension of minimum 100mm on every configuration and size



Branch Specifications

| | Ø | Length |
|-------------|------|------------|
| Branch BCT | 12mm | min. 300mm |
| Branch LCCA | 8mm | min. 300mm |
| Branch LSA | 10mm | min. 100mm |

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JOTEC GmbH, Lotzenacker 23, 72379 Hechingen, Germany

JT-ES-0950200-EN V02 05/2022

Woven Vascular Prosthesis



FlowWeave Bioseal

- Specific weaving techniques for high burst resistance and low dilatation^{1,2}
- Different internal and external surface structures enable blood flow optimization
- Aldehyde and isocyanate free-Bioseal Impregnation using dehydrothermal crosslinked collagen guarantees primary sealing of the blood in the prosthesis³
- Concentric crimping and the guide line allow precise positioning of the prosthesis
- Soft and supple texture for easy handling

ORDERING INFORMATION

| Catalogue No. | Ø (mm) | Length (cm) |
|---------------|--------|-------------|
| 45ST1508 | 8 | 15 |
| 45ST3008 | 8 | 30 |
| 45ST1510 | 10 | 15 |
| 45ST3010 | 10 | 30 |
| 45ST1512 | 12 | 15 |
| 45ST3012 | 12 | 30 |
| 45ST1520 | 20 | 15 |
| 45ST3020 | 20 | 30 |
| 45ST1522 | 22 | 15 |
| 45ST3022 | 22 | 30 |
| 45ST1524 | 24 | 15 |
| 45ST3024 | 24 | 30 |
| 45ST1526 | 26 | 15 |

| Catalogue No. | Ø (mm) | Length (cm) |
|---------------|--------|-------------|
| 45ST3026 | 26 | 30 |
| 45ST1528 | 28 | 15 |
| 45ST3028 | 28 | 30 |
| 45ST1530 | 30 | 15 |
| 45ST3030 | 30 | 30 |
| 45ST1532 | 32 | 15 |
| 45ST3032 | 32 | 30 |
| 45ST1534 | 34 | 15 |
| 45ST3034 | 34 | 30 |



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References:

1. JOTEC GmbH, subsidiary of Covid Inc. Internal mechanical test data
2. Bell C-M. [Study on the issue of expansion of textile implants]. (internal data, JOTEC GmbH)
3. Frenkeling J., J.A. and Mann, W. L. - Clinical Experience with a Collagen-impregnated Selfed Covered Vascular Graft. Arch of Vascular Surg 1993, 9(3): 289-292

FlowWeave Bioseal is indicated in arterial aneurysmal vascular occlusions. The primary indication for FlowWeave Bioseal is vascular replacement in the thoracic and abdominal aorta, although it can also be used in peripheral vascular applications involving vessel diameters of at least 6 mm.

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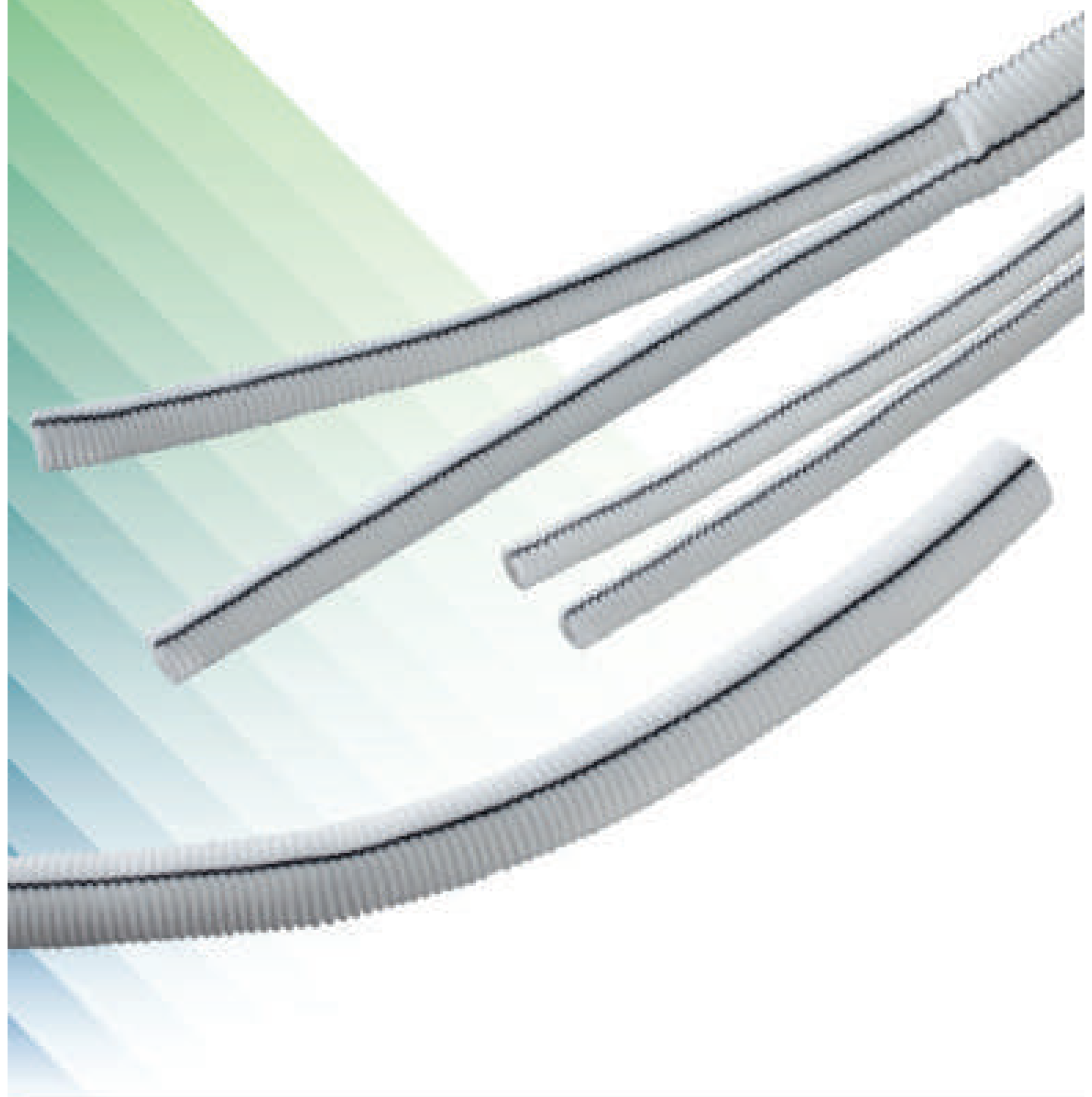
E-mail: info@artivion.com

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Artivion is a leader in vascular and neurovascular devices

Artivion is a leader in vascular and neurovascular devices

Knitted Vascular Prosthesis



ARTIVION | FlowNit Bioseal

FlowNit Bioseal

Knitted vascular prostheses:

- Specific knitting techniques for high burst resistance and low dilatation¹
- Aldehyde and isocyanate free BIOSEAL impregnation using dehydrothermal crosslinked collagen guarantees primary sealing of the blood in the prosthesis²
- Concentric crimping and the guide line allow precise positioning of the prosthesis
- Soft and supple texture for easy handling

Ordering Information

Straight prostheses

| Catalogue No. | Ø (mm) | Length (cm) |
|---------------|--------|-------------|
| 355T1500 | 6 | 30 |
| 355T1600 | 6 | 30 |
| 355T1600 | 6 | 60 |
| 355T1507 | 7 | 30 |
| 355T1607 | 7 | 30 |
| 355T1607 | 7 | 60 |
| 355T1520 | 8 | 35 |
| 355T1608 | 8 | 30 |
| 355T1608 | 8 | 60 |
| 355T2008 | 8 | 100 |
| 355T1800 | 10 | 30 |
| 355T1810 | 10 | 30 |
| 355T2010 | 10 | 60 |
| 355T2010 | 10 | 100 |

Straight prostheses

| Catalogue No. | Ø (mm) | Length (cm) |
|---------------|--------|-------------|
| 355T2510 | 12 | 30 |
| 355T3010 | 12 | 30 |
| 355T2014 | 14 | 30 |
| 355T3014 | 14 | 30 |
| 355T2516 | 16 | 30 |
| 355T3016 | 16 | 30 |
| 355T3018 | 18 | 30 |
| 355T3018 | 18 | 30 |
| 355T3020 | 20 | 30 |
| 355T3020 | 20 | 30 |
| 355T3022 | 22 | 30 |
| 355T3022 | 22 | 30 |
| 355T3024 | 24 | 30 |
| 355T3024 | 24 | 30 |

Bifurcated prostheses

| Catalogue No. | Ø (mm) | Length (cm) |
|---------------|--------|-------------|
| 355B2004 | 12x6 | 40 |
| 355B1607 | 14x7 | 40 |
| 355B1608 | 14x8 | 40 |
| 355B1609 | 14x9 | 40 |
| 355B2010 | 20x10 | 40 |
| 355B2011 | 20x11 | 40 |
| 355B2012 | 20x12 | 40 |



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References

1. JOTEC-Serint, subsidiary of CryoLife, Inc. Internal mechanical test data
2. Bell C-M. Study on the issue of expansion of knitted implants - (Internal data, JOTEC BioSeal)
3. Farnitzig J., J.A. and Moore, M. S. Clinical Experience with a Collagen-Impregnated End-Side Device Vascular Graft. Ann of Vascular Surg 1999; 4(3): 247-252

Indication: FlowNit BioSeal is indicated in arterial aneurysms and vascular occlusions. FlowNit BioSeal is primarily indicated for vascular replacement in the infrarenal abdominal aorta and hypogastric vascular applications involving vessel diameters of at least 8 mm.

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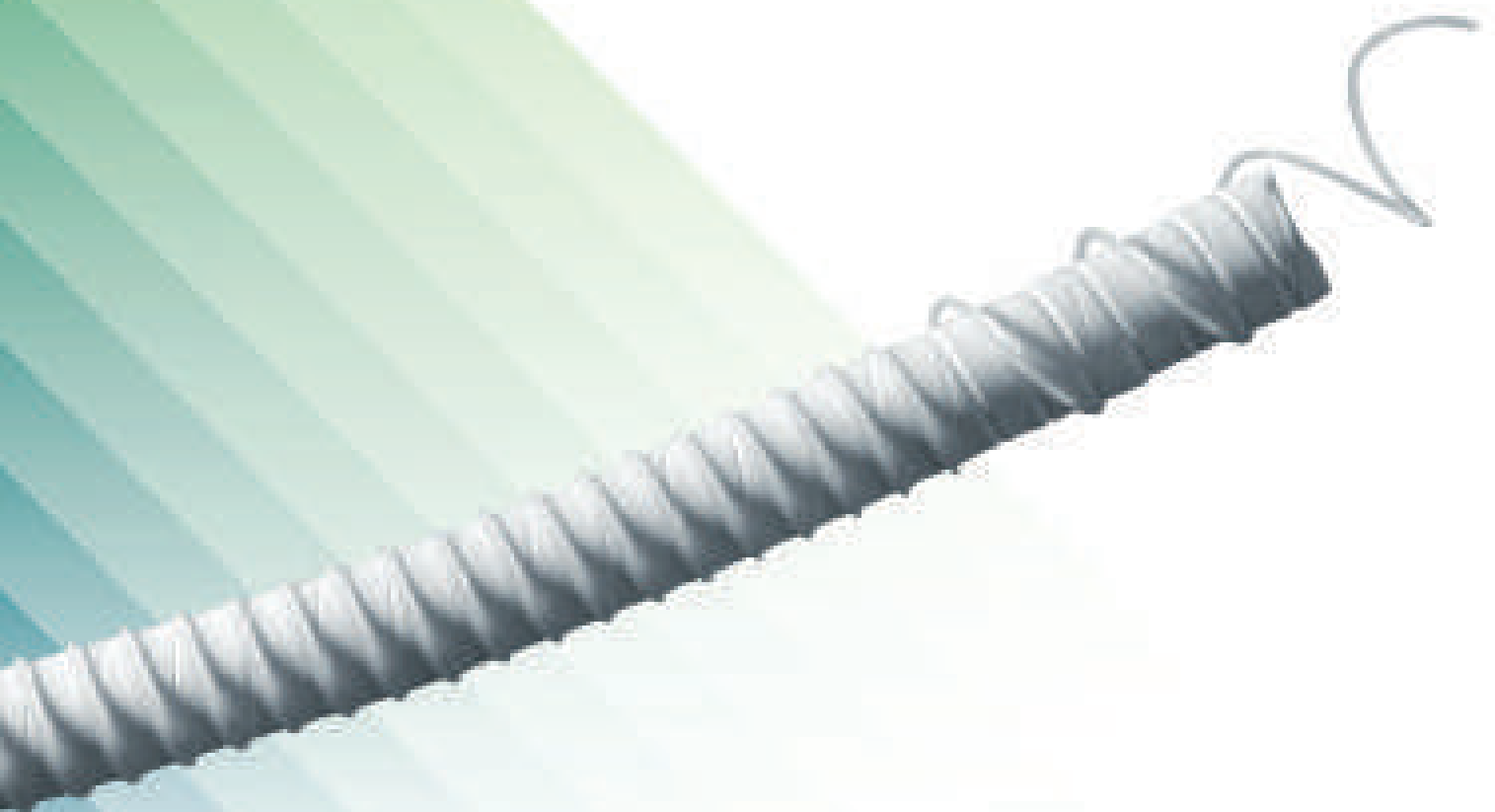
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 ISO 13485 certificate # 2020 ranging Germany

JT-01-030000-40-001 8/2022

Peripheral Treatment with ePTFE



FlowLine Bipore

- Bipore design with two different fibril lengths for low thrombogenicity
- An additional ePTFE wrap for enhanced suture retention and high burst strength
- Unique guideline indicates diameter and wall thickness of the graft
- Helical reinforcement for increased resistance against kinking and compression
- Excellent and pliable handling and suture behaviour
- Simple and easy removal of the spiral reinforcement

Ordering Information

| Length (cm) | Diameter (mm) | Thin Wall | Thin Wall Reinforced |
|----------------|------------------|---------------|-------------------------|
| | | Catalogue No. | Catalogue No. |
| 10 | 5 | 10TW1005N | 10TW1005S |
| 20 | 6 | 10TW2006N | - |
| 20 | 7 | 10TW2007N | - |
| 20 | 8 | 10TW2008N | - |
| 40 | 5 | 10TW4005N | 10TW4005S |
| 40 | 6 | 10TW4006N | - |
| 50 | 6 | 10TW5006N | 10TW5006S |
| 50 | 7 | 10TW5007N | 10TW5007S |
| 50 | 8 | 10TW5008N | 10TW5008S |
| 70 | 5 | 10TW7005N | 10TW7005S |
| 80 | 5 | 10TW8005N | 10TW8005S |
| 80 | 7 | 10TW8007N | 10TW8007S |
| 80 | 8 | 10TW8008N | 10TW8008S |

| Length (cm) | Diameter (mm) | Standard Wall | Standard Wall Reinforced |
|----------------|------------------|---------------|-----------------------------|
| | | Catalogue No. | Catalogue No. |
| 20 | 6 | 10SW2006N | - |
| 20 | 7 | 10SW2007N | - |
| 40 | 5 | 10SW4005N | - |
| 50 | 6 | 10SW5006N | 10SW5006S |
| 50 | 7 | 10SW5007N | 10SW5007S |
| 50 | 8 | 10SW5008N | 10SW5008S |
| 70 | 5 | 10SW7005N | 10SW7005S |
| 80 | 6 | 10SW8006N | 10SW8006S |
| 80 | 7 | 10SW8007N | 10SW8007S |
| 80 | 8 | 10SW8008N | 10SW8008S |

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Or-8 Life Technologies, a subsidiary of, Or-8 Life Technologies, Germany

JT-88-000000-00 V03 12/2022

Every Day. Every Case.



ARTIVION

E-tegra™
Stent Graft System

Ordering Information

E-tegro Stent Graft System

01 Main Body



| Catalog Number (Manufacturer Product #) | Proximal Ø (mm) | Distal Ø (mm) | Total Frunk Length (mm) | Covered Length (mm) | OD Delivery System (F/Access) |
|--|-----------------|---------------|-------------------------|---------------------|-------------------------------|
| ART01000100-20 | 20 | 20 | 100 | 100 | 20/20-2000 |
| ART01000100-25 | 25 | 25 | 100 | 100 | 20/25-2000 |
| ART01000100-30 | 30 | 30 | 100 | 100 | 20/30-2000 |
| ART01000100-35 | 35 | 35 | 100 | 100 | 20/35-2000 |
| ART01000100-40 | 40 | 40 | 100 | 100 | 20/40-2000 |
| ART01000100-45 | 45 | 45 | 100 | 100 | 20/45-2000 |
| ART01000100-50 | 50 | 50 | 100 | 100 | 20/50-2000 |
| ART01000100-55 | 55 | 55 | 100 | 100 | 20/55-2000 |
| ART01000100-60 | 60 | 60 | 100 | 100 | 20/60-2000 |

Special sizes on demand only

| | | | | | |
|-----------------|-----|-----|-----|-----|-------------|
| ART01000100-65 | 65 | 65 | 100 | 100 | 20/65-2000 |
| ART01000100-70 | 70 | 70 | 100 | 100 | 20/70-2000 |
| ART01000100-75 | 75 | 75 | 100 | 100 | 20/75-2000 |
| ART01000100-80 | 80 | 80 | 100 | 100 | 20/80-2000 |
| ART01000100-85 | 85 | 85 | 100 | 100 | 20/85-2000 |
| ART01000100-90 | 90 | 90 | 100 | 100 | 20/90-2000 |
| ART01000100-95 | 95 | 95 | 100 | 100 | 20/95-2000 |
| ART01000100-100 | 100 | 100 | 100 | 100 | 20/100-2000 |

02 Contralateral Leg



| Catalog Number | Proximal Ø (mm) | Distal Ø (mm) | Usable Length (mm) | Total Length (mm) | OD Delivery System (F/Access) |
|-----------------|-----------------|---------------|--------------------|-------------------|-------------------------------|
| ART02000100-20 | 20 | 20 | 60 | 100 | 20/20-2000 |
| ART02000100-25 | 25 | 25 | 60 | 100 | 20/25-2000 |
| ART02000100-30 | 30 | 30 | 60 | 100 | 20/30-2000 |
| ART02000100-35 | 35 | 35 | 60 | 100 | 20/35-2000 |
| ART02000100-40 | 40 | 40 | 60 | 100 | 20/40-2000 |
| ART02000100-45 | 45 | 45 | 60 | 100 | 20/45-2000 |
| ART02000100-50 | 50 | 50 | 60 | 100 | 20/50-2000 |
| ART02000100-55 | 55 | 55 | 60 | 100 | 20/55-2000 |
| ART02000100-60 | 60 | 60 | 60 | 100 | 20/60-2000 |
| ART02000100-65 | 65 | 65 | 60 | 100 | 20/65-2000 |
| ART02000100-70 | 70 | 70 | 60 | 100 | 20/70-2000 |
| ART02000100-75 | 75 | 75 | 60 | 100 | 20/75-2000 |
| ART02000100-80 | 80 | 80 | 60 | 100 | 20/80-2000 |
| ART02000100-85 | 85 | 85 | 60 | 100 | 20/85-2000 |
| ART02000100-90 | 90 | 90 | 60 | 100 | 20/90-2000 |
| ART02000100-95 | 95 | 95 | 60 | 100 | 20/95-2000 |
| ART02000100-100 | 100 | 100 | 60 | 100 | 20/100-2000 |
| ART02000100-105 | 105 | 105 | 60 | 100 | 20/105-2000 |
| ART02000100-110 | 110 | 110 | 60 | 100 | 20/110-2000 |
| ART02000100-115 | 115 | 115 | 60 | 100 | 20/115-2000 |
| ART02000100-120 | 120 | 120 | 60 | 100 | 20/120-2000 |
| ART02000100-125 | 125 | 125 | 60 | 100 | 20/125-2000 |
| ART02000100-130 | 130 | 130 | 60 | 100 | 20/130-2000 |
| ART02000100-135 | 135 | 135 | 60 | 100 | 20/135-2000 |
| ART02000100-140 | 140 | 140 | 60 | 100 | 20/140-2000 |
| ART02000100-145 | 145 | 145 | 60 | 100 | 20/145-2000 |
| ART02000100-150 | 150 | 150 | 60 | 100 | 20/150-2000 |
| ART02000100-155 | 155 | 155 | 60 | 100 | 20/155-2000 |
| ART02000100-160 | 160 | 160 | 60 | 100 | 20/160-2000 |
| ART02000100-165 | 165 | 165 | 60 | 100 | 20/165-2000 |
| ART02000100-170 | 170 | 170 | 60 | 100 | 20/170-2000 |
| ART02000100-175 | 175 | 175 | 60 | 100 | 20/175-2000 |
| ART02000100-180 | 180 | 180 | 60 | 100 | 20/180-2000 |
| ART02000100-185 | 185 | 185 | 60 | 100 | 20/185-2000 |
| ART02000100-190 | 190 | 190 | 60 | 100 | 20/190-2000 |
| ART02000100-195 | 195 | 195 | 60 | 100 | 20/195-2000 |
| ART02000100-200 | 200 | 200 | 60 | 100 | 20/200-2000 |

03 Iliac Extension



| Catalog Number | Proximal Ø (mm) | Distal Ø (mm) | Usable Length (mm) | Total Length (mm) | OD Delivery System (F/Access) |
|-----------------|-----------------|---------------|--------------------|-------------------|-------------------------------|
| ART03000100-20 | 20 | 20 | 60 | 80 | 20/20-2000 |
| ART03000100-25 | 25 | 25 | 60 | 80 | 20/25-2000 |
| ART03000100-30 | 30 | 30 | 60 | 80 | 20/30-2000 |
| ART03000100-35 | 35 | 35 | 60 | 80 | 20/35-2000 |
| ART03000100-40 | 40 | 40 | 60 | 80 | 20/40-2000 |
| ART03000100-45 | 45 | 45 | 60 | 80 | 20/45-2000 |
| ART03000100-50 | 50 | 50 | 60 | 80 | 20/50-2000 |
| ART03000100-55 | 55 | 55 | 60 | 80 | 20/55-2000 |
| ART03000100-60 | 60 | 60 | 60 | 80 | 20/60-2000 |
| ART03000100-65 | 65 | 65 | 60 | 80 | 20/65-2000 |
| ART03000100-70 | 70 | 70 | 60 | 80 | 20/70-2000 |
| ART03000100-75 | 75 | 75 | 60 | 80 | 20/75-2000 |
| ART03000100-80 | 80 | 80 | 60 | 80 | 20/80-2000 |
| ART03000100-85 | 85 | 85 | 60 | 80 | 20/85-2000 |
| ART03000100-90 | 90 | 90 | 60 | 80 | 20/90-2000 |
| ART03000100-95 | 95 | 95 | 60 | 80 | 20/95-2000 |
| ART03000100-100 | 100 | 100 | 60 | 80 | 20/100-2000 |

04 Aortic Extension



| Catalog Number | Proximal Ø (mm) | Distal Ø (mm) | Covered Length (mm) | OD Delivery System (F/Access) |
|-----------------|-----------------|---------------|---------------------|-------------------------------|
| ART04000100-20 | 20 | 20 | 60 | 20/20-2000 |
| ART04000100-25 | 25 | 25 | 60 | 20/25-2000 |
| ART04000100-30 | 30 | 30 | 60 | 20/30-2000 |
| ART04000100-35 | 35 | 35 | 60 | 20/35-2000 |
| ART04000100-40 | 40 | 40 | 60 | 20/40-2000 |
| ART04000100-45 | 45 | 45 | 60 | 20/45-2000 |
| ART04000100-50 | 50 | 50 | 60 | 20/50-2000 |
| ART04000100-55 | 55 | 55 | 60 | 20/55-2000 |
| ART04000100-60 | 60 | 60 | 60 | 20/60-2000 |
| ART04000100-65 | 65 | 65 | 60 | 20/65-2000 |
| ART04000100-70 | 70 | 70 | 60 | 20/70-2000 |
| ART04000100-75 | 75 | 75 | 60 | 20/75-2000 |
| ART04000100-80 | 80 | 80 | 60 | 20/80-2000 |
| ART04000100-85 | 85 | 85 | 60 | 20/85-2000 |
| ART04000100-90 | 90 | 90 | 60 | 20/90-2000 |
| ART04000100-95 | 95 | 95 | 60 | 20/95-2000 |
| ART04000100-100 | 100 | 100 | 60 | 20/100-2000 |

05 Aorto-Uni-Iliac



| | | | | |
|-----------------|-----|-----|-----|-------------|
| ART05000100-20 | 20 | 20 | 100 | 20/20-2000 |
| ART05000100-25 | 25 | 25 | 100 | 20/25-2000 |
| ART05000100-30 | 30 | 30 | 100 | 20/30-2000 |
| ART05000100-35 | 35 | 35 | 100 | 20/35-2000 |
| ART05000100-40 | 40 | 40 | 100 | 20/40-2000 |
| ART05000100-45 | 45 | 45 | 100 | 20/45-2000 |
| ART05000100-50 | 50 | 50 | 100 | 20/50-2000 |
| ART05000100-55 | 55 | 55 | 100 | 20/55-2000 |
| ART05000100-60 | 60 | 60 | 100 | 20/60-2000 |
| ART05000100-65 | 65 | 65 | 100 | 20/65-2000 |
| ART05000100-70 | 70 | 70 | 100 | 20/70-2000 |
| ART05000100-75 | 75 | 75 | 100 | 20/75-2000 |
| ART05000100-80 | 80 | 80 | 100 | 20/80-2000 |
| ART05000100-85 | 85 | 85 | 100 | 20/85-2000 |
| ART05000100-90 | 90 | 90 | 100 | 20/90-2000 |
| ART05000100-95 | 95 | 95 | 100 | 20/95-2000 |
| ART05000100-100 | 100 | 100 | 100 | 20/100-2000 |

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Hypogastric Artery Matters



ARTIVION

E-liac[®]

Stent Graft System

Ordering Information

E-Iliac Stent Graft System



01 Aorto-Iliac Aneurysms

| Catalog Number | Proximal Ø (mm) | Distal Ø (mm) | Total Length (mm) | Proximal Length (mm) | Distal Length (mm) | OO Delivery System (F (mm)) |
|----------------|-----------------|---------------|-------------------|----------------------|--------------------|-----------------------------|
| T20100100100 | 32 | 32 | 107 | 32 | 65 | 10/0.25 |
| T20100100150 | 32 | 32 | 107 | 32 | 65 | 10/0.25 |
| T20100100200 | 32 | 32 | 107 | 32 | 65 | 10/0.25 |

Special sizes on demand only

| | | | | | | |
|--------------|----|----|-----|----|----|---------|
| T20100100250 | 32 | 32 | 100 | 32 | 68 | 10/0.25 |
| T20100100300 | 32 | 32 | 100 | 32 | 68 | 10/0.25 |
| T20100100350 | 32 | 32 | 100 | 32 | 68 | 10/0.25 |



02 Isolated Iliac Aneurysms

| Catalog Number | Proximal Ø (mm) | Distal Ø (mm) | Total Length (mm) | Proximal Length (mm) | Distal Length (mm) | OO Delivery System (F (mm)) |
|----------------|-----------------|---------------|-------------------|----------------------|--------------------|-----------------------------|
| T20100100100 | 32 | 32 | 100 | 32 | 68 | 10/0.25 |
| T20100100150 | 32 | 32 | 100 | 32 | 68 | 10/0.25 |
| T20100100200 | 32 | 32 | 100 | 32 | 68 | 10/0.25 |
| T20100100250 | 32 | 32 | 100 | 32 | 68 | 10/0.25 |
| T20100100300 | 32 | 32 | 100 | 32 | 68 | 10/0.25 |

Special sizes on demand only

| | | | | | | |
|--------------|----|----|-----|----|----|---------|
| T20100100350 | 32 | 32 | 100 | 32 | 68 | 10/0.25 |
| T20100100400 | 32 | 32 | 100 | 32 | 68 | 10/0.25 |
| T20100100450 | 32 | 32 | 100 | 32 | 68 | 10/0.25 |
| T20100100500 | 32 | 32 | 100 | 32 | 68 | 10/0.25 |
| T20100100550 | 32 | 32 | 100 | 32 | 68 | 10/0.25 |

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AT-40-0100200-001 001/01/2022

Making the Revolutionary Routine.



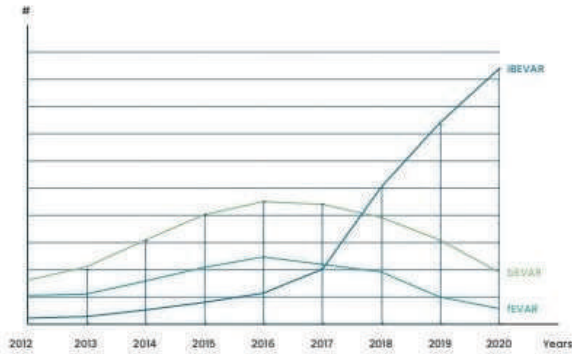
ARTIVION

E-nside™ TAAA
Multibranch Stent Graft System

Innovation at its Core.

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 the past 9 years E-xtra DESIGN ENGINEERING service has provided physicians with patient specific solutions for complex endovascular thoracoabdominal repairs: with more than 2200 projects for complex TAAA pathologies (and over 5000 customised solutions overall) made available for the treating physicians, a deep understanding of endovascular thoracoabdominal repair was developed.

E-nside TAAA is the result of years of experience in facing the challenges of the TAAA space and was born to respond to the unmet needs and challenges still present in this space.

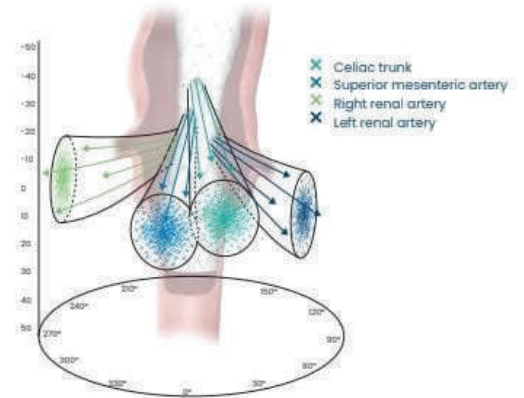


E-nside TAAA is the first **PRE-CANNULATED**, inner branch based, off-the-shelf solution for thoracoabdominal aneurysms accessible on the market.

Being available as an **OFF-THE-SHELF**, it's designed to treat both elective and emergency cases with a consistent approach.

The inner branch technology (iBEVAR) that E-nside TAAA is based on enables the treatment of varied anatomies with a **CONSISTENT APPROACH**. Internal tunnels can be used in narrow, kinked anatomies¹ as well as large, dilated aneurysms.²

Pre-cannulation is designed to **MINIMIZE** fluoroscopy and implantation **TIME** as well as contrast media necessary to finalize the procedure.



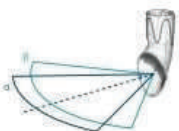
Distances and angles of CT, RRA and LRA in relation to SMA derived from over 300 CT scans analysed to maximise the applicability of the device.
Reprint with permission of L. Bertoglio³

Making the Revolutionary Routine.

Different Anatomies. A Consistent Approach.

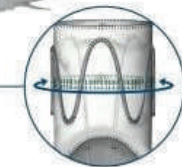
Thoracoabdominal aneurysms are a complex disease and unique to each patient's anatomy. A consistent approach can be a powerful tool to simplify this variability, inner branch technology (iBEVAR) has the potential to bring greater predictability to both decision making and treatment. Inner branch technology (iBEVAR) is designed to introduce benefits such as:

ENLARGED, ELLIPTICAL OUTLETS
Re-designed oval-shaped outlets to allow for greater flexibility of the covered stents.

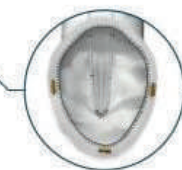


CT/SMA: $\alpha = 50^\circ$
RRA/LRA: $\beta = 70^\circ$

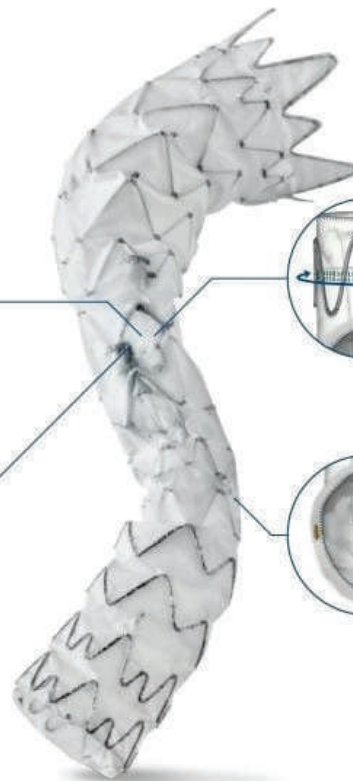
FIXATION SEAM
The proximal fixation of the inner branches allows longitudinal stability and support during cannulation of the target vessels.



MIGRATION REDUCTION
A thin 0.1mm PET thread added inside each inner branch designed to enhance the friction of any covered stent to help minimize migration.



ASYMMETRICAL COMPRESSION SPRINGS
Designed to maintain patency of the branches as well as avoid longitudinal compressions during catheterization of the target vessels.



Making the Revolutionary Routine.

Ordering Information

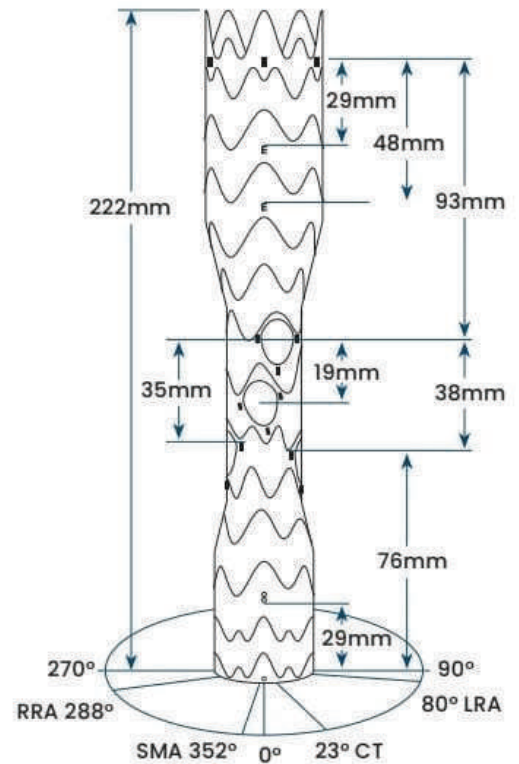
E-nside TAAA Multibranch Stent Graft System

| Catalog Number | Ø Proximal (mm) | Ø Central (mm) | Ø Distal (mm) | Total Length (mm) | Ø Branch CT/ SMA (mm) | Ø Branch LRA/ RRA (mm) | OD delivery system (mm) |
|----------------------|-----------------|----------------|---------------|-------------------|-----------------------|------------------------|-------------------------|
| 65MU332621-4B8866-00 | 33 | 24 | 26 | 222 | 8 | 6 | 8.2 |
| 65MU333021-4B8866-00 | 33 | 24 | 30 | 222 | 8 | 6 | 8.2 |
| 65MU382621-4B8866-00 | 38 | 24 | 26 | 222 | 8 | 6 | 8.2 |
| 65MU383021-4B8866-00 | 38 | 24 | 30 | 222 | 8 | 6 | 8.2 |

Oversizing Guidelines

| Ø Distal Thoracic stent graft (mm) | Ø Proximal E-nside TAAA stent graft (mm) | Minimum length of landing zone (mm) |
|------------------------------------|--|-------------------------------------|
| 34 | 38 | 30 |
| 33 | | |
| 32 | | |
| 31 | | |
| 30 | 33 | |
| 29 | | |
| 28 | | |
| 27 | | |

| Ø Infrarenal aorta (mm) | Ø Distal E-nside TAAA stent graft (mm) | Minimum length of landing zone (mm) |
|-------------------------|--|-------------------------------------|
| 21 | 26 | 30 |
| 22 | | |
| 23 | | |
| 24 | | |
| 25 | 30 | |
| 26 | | |
| 27 | | |



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I. M. Youssef et al (2018) - A Multicenter Experience With a New Fenestrated-Branched Device for Endovascular Repair of Thoracoabdominal Aortic Aneurysms, Journal of endovascular therapy, DOI: 10.1177/1526602817752147 2. A. Katsargyris et al (2018) - Early Experience with the Use of Inner Branches in Endovascular Repair of Complex Abdominal and Thoraco-abdominal Aortic Aneurysms, European Journal of vascular and endovascular surgery, DOI: 10.1016/j.ejvs.2018.01.024 3. V. Bilman, T. Cambiaghi, A. Grandi, N. Carta, G. Melissano, R. Chiesa, L. Bertoglio (2020) - Anatomical feasibility of a new off-the-shelf inner branch stent graft (E-nside for endovascular treatment of thoraco-abdominal aneurysms, European Journal of Cardio-Thoracic Surgery, Volume 58, Issue 6, Pages 1296-1303, <https://doi.org/10.1093/ejcts/ezaa276>

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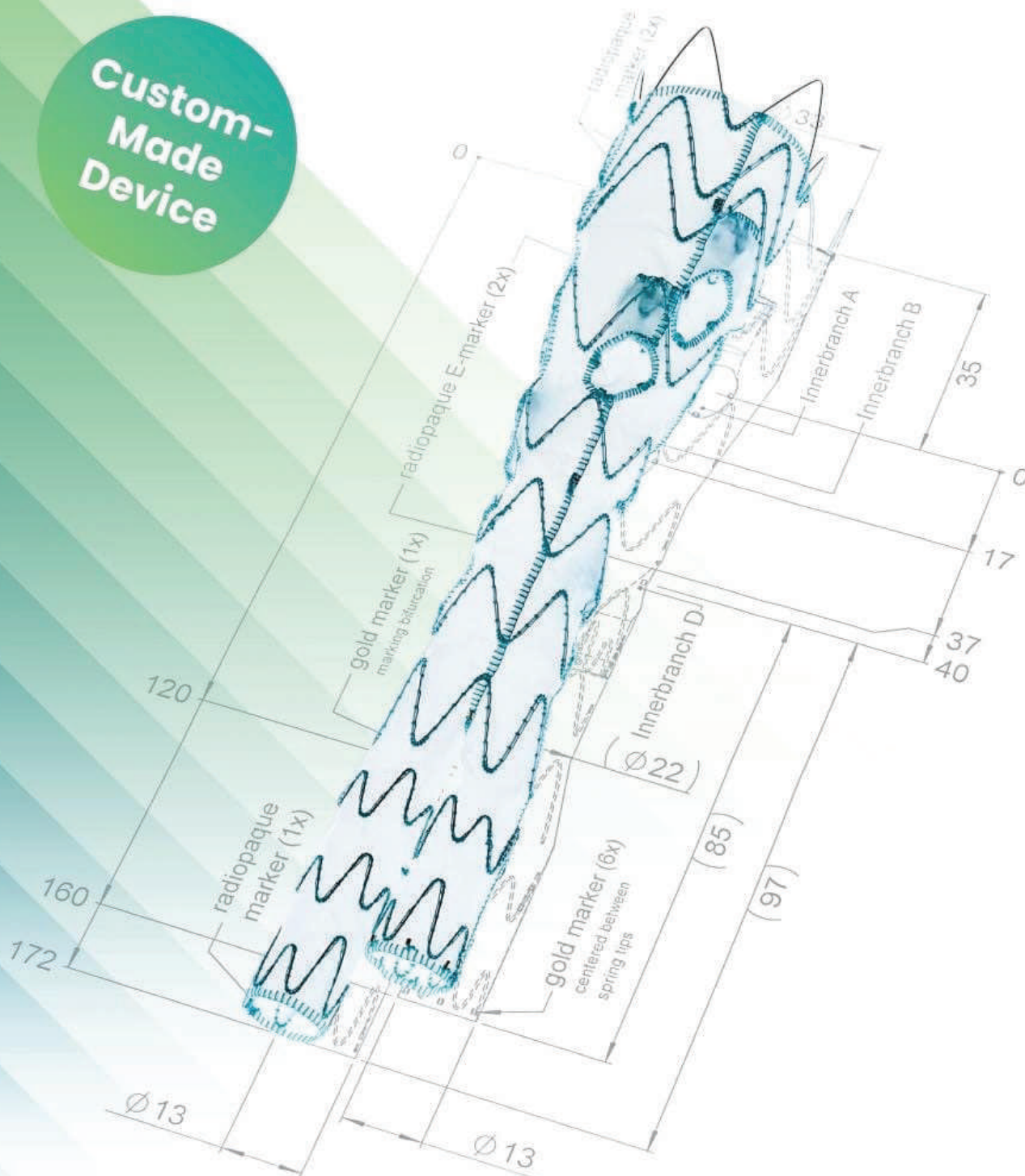
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JT-BR-0650200-EN V03 05/2022

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



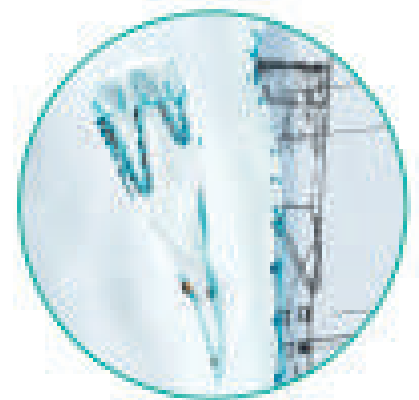
Outer branch



Twin branch



Semi branch



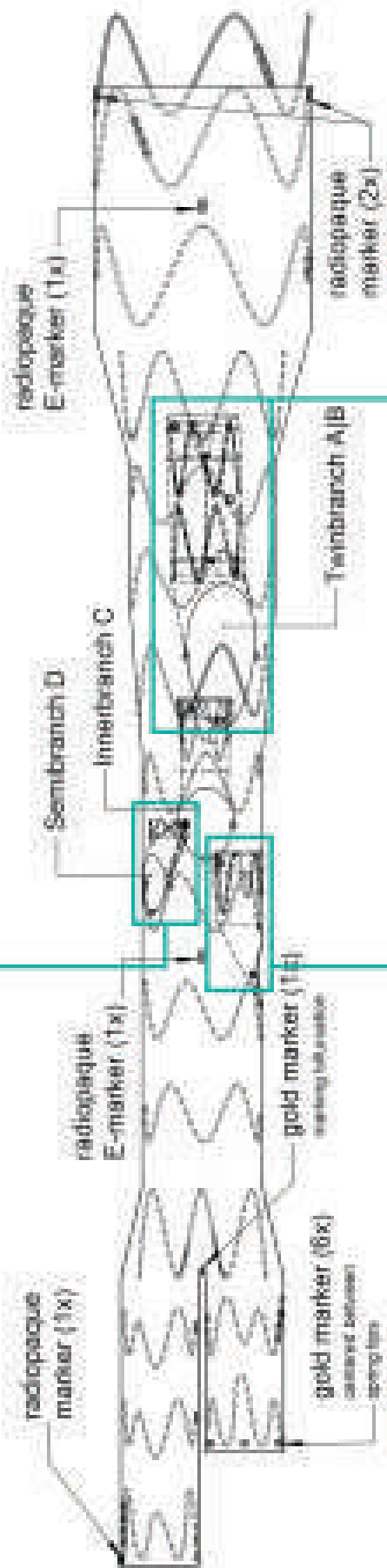
Inner branch



Scallop



Integrated bifurcation



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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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 JO TEC GmbH.

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