

# Beating heart surgery

Product family

# A comprehensive solution

## Designed to help optimize outcomes



### Acrobat-i® Off-Pump System

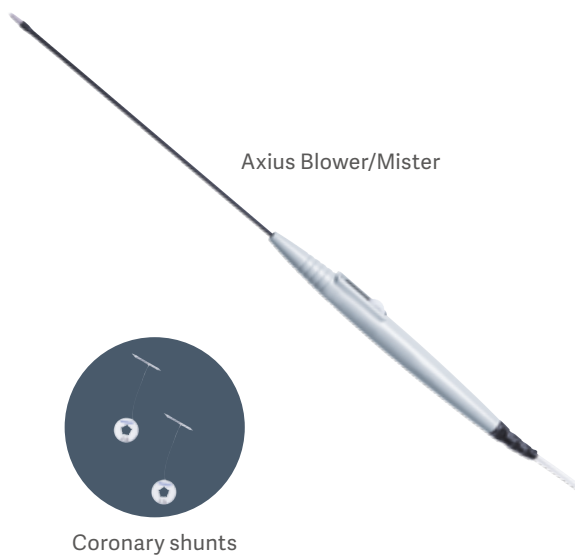
Acrobat-i combines sleek form with superb function and enables surgeons to easily and confidently deliver the benefits of beating heart surgery. It incorporates the preferred features from the Acrobat and Xpose product family: proven stability, strength and flexibility.

- Low profile mount: stabilizer mount maintains a constant low profile even at extreme arm positions for an optimized work area.
- Increased visibility: stabilizer allows a vertical drop into the chest cavity and provides 180° side-to-side range of motion of the arm.
- Increased workspace: streamlined locking lever and integrated channels secure tubing and decrease workspace cluttering.

### Heartstring® III Proximal Seal System

Heartstring III brings proximal anastomotic technology into the future. A hemostatic seal enables surgeons to eliminate partial occlusion clamps and minimize aortic manipulation that can lead to complications.

- Benefits: Minimizing the manipulation of the ascending aorta reduces the risk of neurologic complications. In patients with minimal aortic diseases the cerebral emboli number is significantly reduced when the Heartstring device is used.<sup>1</sup>
- Patency: allows use of the surgeon's own hand-suturing technique for optimal anastomotic quality and procedural flexibility.
- Ease-of-use: the innovative loading device makes Heartstring III seal placement fast and easy.



Axius Blower/Mister

Coronary shunts



Activator II Drive Mechanism

## Axius® beating heart accessories

The Axius Coronary Shunt and Blower/Mister help to optimize operative conditions during coronary revascularization procedures.

- Create a clear work area: shunt provides a bloodless field at the anastomotic site.
- Minimize ischemia: shunt helps maintain distal perfusion.
- Maintain moisture: Blower/Mister helps prevent dessication of graft.
- Increase visibility: Blower/Mister gently displaces blood with a controlled flow of saline and CO<sub>2</sub>.

## Activator® II Drive Mechanism

The Activator II Drive Mechanism is a reusable, stainless steel retractor used in combination with the Accessrail Platform to open the sternum, providing access and direct visualization into the thoracic cavity.

- Flexibility: choose between standard blades or deep blades to accommodate different anatomies which easily attach to the Activator II Drive Mechanism.
- Clear workspace: enables clean organization of pericardial sutures and also accommodates the stabilizers and positioners used on the beating heart.



Acrobat V

Acrobat SUV



Xpose 3

### Acrobat® Off-Pump System

The Acrobat Off-Pump System provides the strength, visibility, and the stability necessary in a variety of surgical situations.

- Excellent stabilization: malleable feet provide ideal stabilization and superb vessel presentation; tri-slot socket wrist design provides access to difficult vessels in “toes-up” position, for maximum visibility.
- Strength and flexibility: low-profile arm is designed for increased strength, and innovative FlexLink™ technology features interlocking links that enable greater maneuverability.

### Xpose® Access Device

The Xpose Access Device is designed for apical or non-apical placement, and securely lifts the heart for access to vessels in any location.

- Maintain stable hemodynamics: active suspension technology allows normal cardiac motion.
- Ensure secure contact: tissue-conforming suction cup uses gentle vacuum to stay in place.
- Reveal hard-to-reach vessels: low-profile arm makes it easy to see and gain access to any target vessel.

## Ordering information

Description	Code
<b>Heartstring III Proximal Seal System</b>	
Heartstring III Seal, Delivery Device, Loader, and 3.8 mm Aortic Cutter	HSK-3038
Heartstring III Seal, Delivery Device, Loader, and 4.3 mm Aortic Cutter	HSK-3043
Heartstring III Seal, Delivery Device, and Loader	HS-3045
Aortic Cutter, 3.8 mm	AC-3038
Aortic Cutter, 4.3 mm	AC-3043
<b>Xpose Access Devices</b>	
Xpose 3 Positioner	XP-3000
Acrobat-i Positioner	XP-5000
<b>Acrobat Off-Pump Systems and Ultima OPCAB System</b>	
Acrobat-i Stabilizer	OM-10000
Acrobat SUV Stabilizer	OM-9000S
Acrobat V Stabilizer	OM-9100S
Acrobat-i Positioner and Stabilizer	XO5-10000
Xpose 3 + Acrobat SUV Stabilizer	XO3-9000S
Xpose 3 + Acrobat V Stabilizer	XO3-9100S

Beating heart accessories			Code
<b>Activator® II Drive Mechanism</b>			
Activator II Drive Mechanism			UA-5001
Accessrail Platform Standard Blades			SB-1000
Accessrail Platform Deep Blades			DB-1000
<b>Axius® Blower/Mister</b>			
Axius Blower/Mister			CB-1000
<b>Axius Coronary Shunt</b>			
Tip Diameter (mm)	Standard Length (mm)	Long Length (mm)	Code
1.00	16.25	–	OF-1000
1.25	16.25	–	OF-1250
1.50	16.25	– 20.25	OF-1500/ OF-1500L
1.75	17.50	–	OF-1750
2.00	18.00	– 22.00	OF-2000/ OF2000L
2.25	18.00	–	OF-2250
2.50	19.00	–	OF-2500
2.75	19.50	–	OF-2750
3.00	20.00	–	OF-3000
3.50	24.00	–	OF-3500

#### Reference

1. El Zayat H, Puskus JD, Hwang S, et al. Avoiding the clamp during off-pump coronary artery bypass reduces cerebral embolic events: results of a prospective randomized trial. *Interactive CardioVascular and Throacic Surgery*. 2012; 14(1): 12-16.



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EXP02/20