

MAQUET
GETINGE GROUP

**CLAMPLESS BEATING HEART SURGERY
PRODUCT FAMILY**



A COMPREHENSIVE SOLUTION DESIGNED TO OPTIMIZE OUTCOMES



ACROBAT-i® OFF-PUMP SYSTEM

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Enhanced Visibility and Control. The ACROBAT-i combines sleek form with superb function and enables surgeons to more 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 Seal Loader and Delivery Device, Aortic Cutter, and Seal

HEARTSTRING® III PROXIMAL SEAL SYSTEM

Do more—clamp less. 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.

- **Safety:** Helps avoid embolic release and reduces the potential for neurologic complications
- **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 and Coronary Shunts



ACTIVATOR II Drive Mechanism

AXIUS® BEATING HEART ACCESSORIES

See more clearly. 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 CO₂

ACTIVATOR® II DRIVE MECHANISM

Optimize Access. 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: Choice 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

PRODUCT ORDERING INFORMATION

Offer more patients the proven benefits of clampless beating heart surgery: reduced mortality, improved cognition, and more rapid recovery¹⁻³. MAQUET Medical Systems offers an integrated system that complements a range of surgical approaches.



- HEARTSTRING® Proximal Seal System allows clampless anastomoses, easy use with hand-suturing, and reduced risk of embolic release⁴
- ACROBAT® Off-Pump System offers uncompromising strength and stability
- XPOSE® Access Device maintains hemodynamics while providing a simple way to position target vessels
- AXIUS® Beating Heart Accessories help optimize operative conditions and maintain perfusion

MAQUET Medical Systems strives to be the gold standard in surgical technology, delivering exceptional stability, flexibility, and visibility. For more information about the HEARTSTRING III Proximal Seal System and the complete line of clampless beating heart surgery devices, contact a MAQUET representative or visit www.maquetusa.com.

Description		Code	
HEARTSTRING III Proximal Seal System			
HEARTSTRING III Seal, Delivery Device, Loader, and 4.3 mm Aortic Cutter		HSK-3043	
HEARTSTRING III Seal, Delivery Device, Loader, and 3.8 mm Aortic Cutter		HSK-3038	
HEARTSTRING III Seal, Delivery Device, and Loader		HS-3045	
HEARTSTRING III Seal, Aortic Cutter, 3.8 mm		AC-3038	
HEARTSTRING III Seal, Aortic Cutter, 4.3 mm		AC-3043	
XPOSE Access Device			
XPOSE 3 Device		XP-3000	
XPOSE 4 Device		XP-4000	
ACROBAT-i Positioner		XP-5000	
ACROBAT Off-Pump Systems and ULTIMA OPCAB™ System			
ACROBAT-i Stabilizer		OM-10000	
ACROBAT SUV Stabilizer		OM-9000	
ACROBAT V Vacuum Stabilizer		OM-9100	
ACROBAT-i Positioner and Stabilizer		XO5-10000	
XPOSE 3 + ACROBAT SUV Stabilizer		XO3-90000	
XPOSE 4 + ACROBAT SUV Stabilizer		XO4-90000	
XPOSE 3 + ACROBAT V Stabilizer		XO3-9100	
XPOSE 4 + ACROBAT V Stabilizer		XO4-9100	
Beating Heart Accessories			
AXIUS® Blower/Mister		CB-1000	
ACROBAT-i Blower/Mister		CB-2000	
AXIUS Coronary Shunt			
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
ACTIVATOR® II Drive Mechanism			
ACTIVATOR II Drive Mechanism		UA-5001	
ACCESSRAIL Platform Standard Blades		SB-1000	
ACCESSRAIL Platform Deep Blades		DB-1000	

References: 1. Diegeler A, Hirsch R, Schneider F, et al. Neuromonitoring and neurocognitive outcome in off-pump versus conventional coronary bypass operation. *Ann Thorac Surg.* 2000;69:1162-1166. 2. Murkin JM, Boyd WD, Ganapathy S, Adams SJ, Peterson RC. Beating heart surgery: why expect less central nervous system morbidity? *Ann Thorac Surg.* 1999;68:1498-1501. 3. Puskas JD, Wright CE, Ronson RS, Brown WM, Gott JP, Guyton RA. Clinical outcomes and angiographic patency in 125 consecutive off-pump coronary bypass patients. *Heart Surg Forum.* 1999;2:216-221. 4. Wolf LG, Abu-Omar Y, Choudhary BK, Pigott D, Taggart DP. Gaseous and solid cerebral microembolization during proximal aortic anastomoses in off-pump coronary surgery: the effect of an aortic side-biting clamp and two clampless devices. *J Thorac Cardiovasc Surg.* 2007;133:485-493.



ACROBAT SUV, and ACROBAT V



XPOSE 4 and XPOSE 3

ACROBAT® OFF-PUMP SYSTEM

Suture with ease. The ACROBAT Off-Pump System provides the strength, visibility, and 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

Reach target vessels easily. The XPOSE Access Device is designed for apical or nonapical 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

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