



AVATR™ – Aortic Valve Access Thoracic Retractor



Genesee
BIOMEDICAL, INC.

Shaped by Surgeons.
Built for Better Outcomes.



AVATR™ – Aortic Valve Access Thoracic Retractor

Designed for Clear Aortic Access — Open or MICS.



The AVATR™ Thoracic Retractor is designed to deliver stable and direct access to the aortic root, supporting a range of surgical approaches from full sternotomy to minimally invasive techniques. Its wide-angle frame, curved arms, and interchangeable rake options enable upward and lateral retraction without crowding the field — helping cardiac teams maintain exposure in routine or complex procedures.

Accepts Genesee's interchangeable rakes and mounting hardware. Optional minimally invasive blade sets are available.

Designed For:

- ✓ Open aortic valve replacement procedures
- ✓ Minimally invasive and port-access TAVR
- ✓ Surgeons requiring vertical and lateral thoracic access
- ✓ Procedures involving limited exposure or reoperation

Key Features:

- ✓ Wide-angle frame supports deep exposure
- ✓ Dual-arm design accommodates multiple retraction strategies
- ✓ Interchangeable rake options for tailored anatomy access
- ✓ Stainless steel construction for repeated use and sterilization
- ✓ Compact profile helps preserve working space
- ✓ Compatible with MICS strategies (when used with appropriate blades and exposure plan)

Clinical Considerations

- ✓ Suitable for standard sternotomy and reduced-access cases
- ✓ Ideal for TAVR and root procedures in small adults or reops
- ✓ Accepts Genesee rake sets and hardware for flexible configuration



AVATR™ System Ordering Guide

Order using the catalog numbers below

ATR-1 - AVATR™ Thoracic Retractor Rack and Blades

Includes the following:

Qty	Catalog #	Description
1	ATR-1	Adult Rack with Fixed and Moving Arms (178 mm rack, 140 mm arm)
1	CSR-CH	Cog Handle
2	SR-SBL	Standard Adult Blade (89 mm wide × 25 mm deep)
2	SR-DBL	Deep Adult Blade (89 mm wide × 38 mm deep)

ATR-AR - AVATR™ Aortic Valve and Thoracic Retractor with Atrial and Aortic Accessories

Includes the following:

Qty	Catalog #	Description
1	ATR-1	Adult Rack with Fixed and Moving Arms (178 mm rack, 140 mm arm)
1	CSR-CH	Cog Handle
2	SR-SBL	Standard Adult Blade (89 mm wide × 25 mm deep)
2	SR-DBL	Deep Adult Blade (89 mm wide × 38 mm deep)
1	AR-SLR	Small Left Atrial Rake
2	AR-MLR	Medium Left Atrial Rake
2	AR-LLR	Large Left Atrial Rake
1	AR-LAR	Long Atrial Rake
1	AR-LRR	Large Right Atrial Rake
1	AR-PC	Adult Pillar Clamp
4	AR-BC	Adult Ball Clamp
2	AR-HW	Large Hex Wrench
1	AR-HR	"H" Mounting Rod
2	AR-MB	Mounting Bar





AVATR™ Thoracic Retractor System | Controlled Exposure for Open, MICS and

Genesee Biomedical



Genesee
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AVATR™ THORACIC

RETRACTOR SYSTEM



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Curved Rakes & Adult Retractor Accessories

Precision Components for Customized Exposure

Adult Curved Atrial Rakes

Standard Handle (160 mm)

Catalog #	Product Description	Dimensions (W x L x D)
AR-SLRC	Small Curved Left Atrial Rake	19 mm x 36 mm x 25 mm
AR-MLRC	Medium Curved Left Atrial Rake	32 mm x 36 mm x 28 mm
AR-LLRC	Large Curved Left Atrial Rake	38 mm x 61 mm x 45 mm
AR-LRRC	Large Curved Right Atrial Rake	45 mm x 41 mm x 18 mm
AR-LARC	Long Curved Atrial Rake	19 mm x 62 mm x 51 mm

Adult Curved Atrial Rakes

Long Handle (210 mm)

Catalog #	Product Description	Dimensions (W x L x D)
AR-SLRLC	Small Left Atrial Rake (Long Handle)	19 mm x 36 mm x 25 mm
AR-MLRLC	Medium Left Atrial Rake (Long Handle)	32 mm x 36 mm x 28 mm
AR-LLRLC	Large Left Atrial Rake (Long Handle)	38 mm x 61 mm x 45 mm
AR-LRRLC	Large Right Atrial Rake (Long Handle)	45 mm x 41 mm x 18 mm
AR-LARLC	Long Atrial Rake (Long Handle)	19 mm x 62 mm x 51 mm

Accessories for Adult Retractors:

Catalog #	Accessory Description
AR-CC	Adult Ball Clamp for Curved & Straight Rakes
AR-CCT	Adult Toggle Ball Clamp for Curved & Straight Rakes
AR-PC	Adult Pillar Clamp
AR-PCT	Adult Toggle Pillar Clamp
AR-HW	Large Hex Wrench
AR-HR	H-Style Mounting Bar
AR-MB	Straight Mounting Bar
AR-BCT	Adult Toggle Ball Clamp
MISBL	Minimally Invasive Adult Standard Blade
MIDBL	Minimally Invasive Adult Deep Blade
SOP	Suture Organizer (reusable)



Contact

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“Innovation begins with listening. Every great product we build starts with a surgeon’s challenge.”
— Matt Dambeck, CEO Genesee BioMedical, Inc

