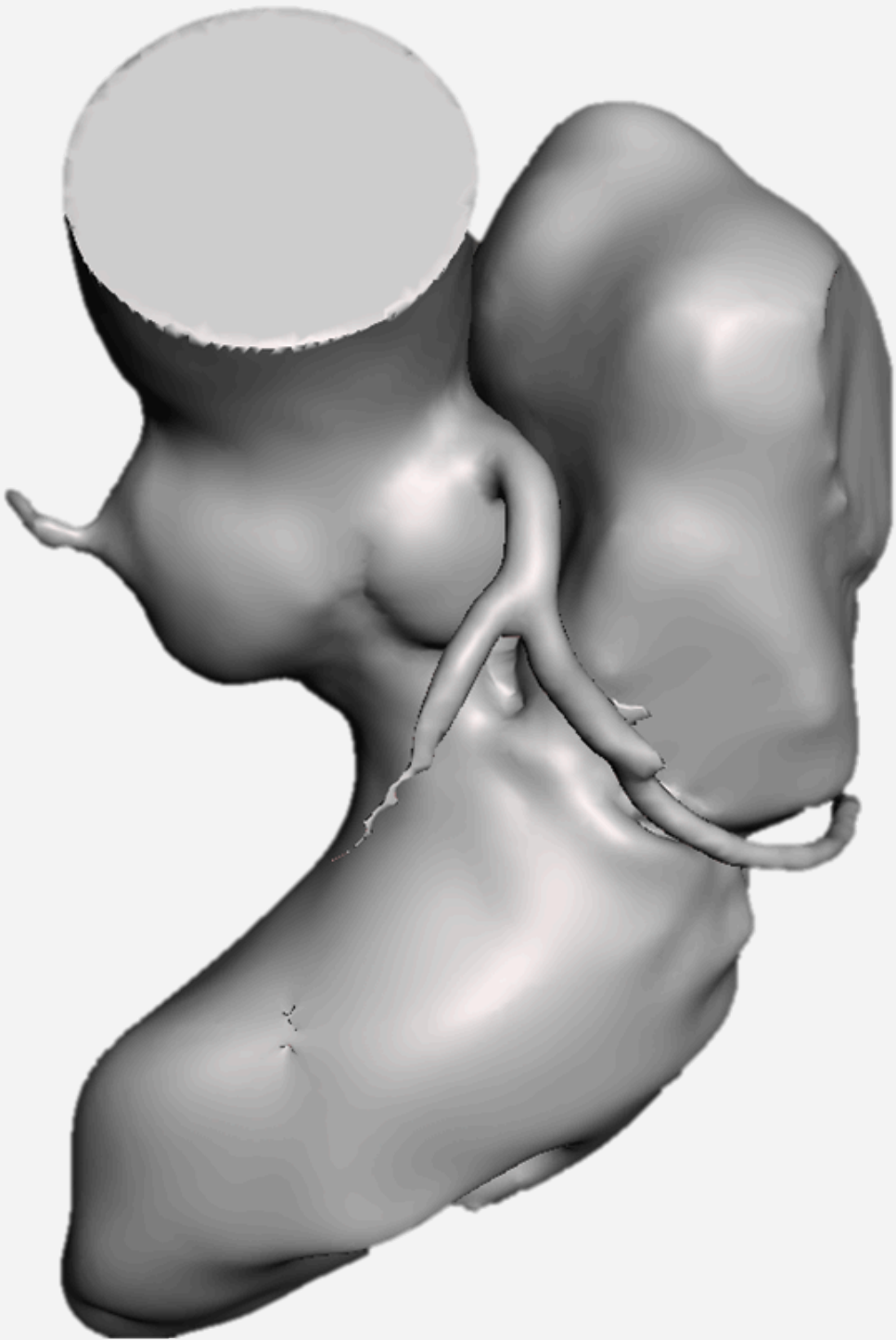


REAL IMAGING
PROCEDURAL TRAINING
DEVICE VALIDATION

PULSO SIM HUMAN - GRADE CARDIAC SIMULATION

ADVANCED CARDIAC SIMULATION PLATFORM

Pulso Sim is an advanced cardiac simulation platform designed for medical companies, physicians, and training centers seeking realistic procedural education and device validation. Combining pulsatile flow, human-grade anatomy, and real imaging compatibility, Pulso sim delivers an immersive and clinically relevant training experience.

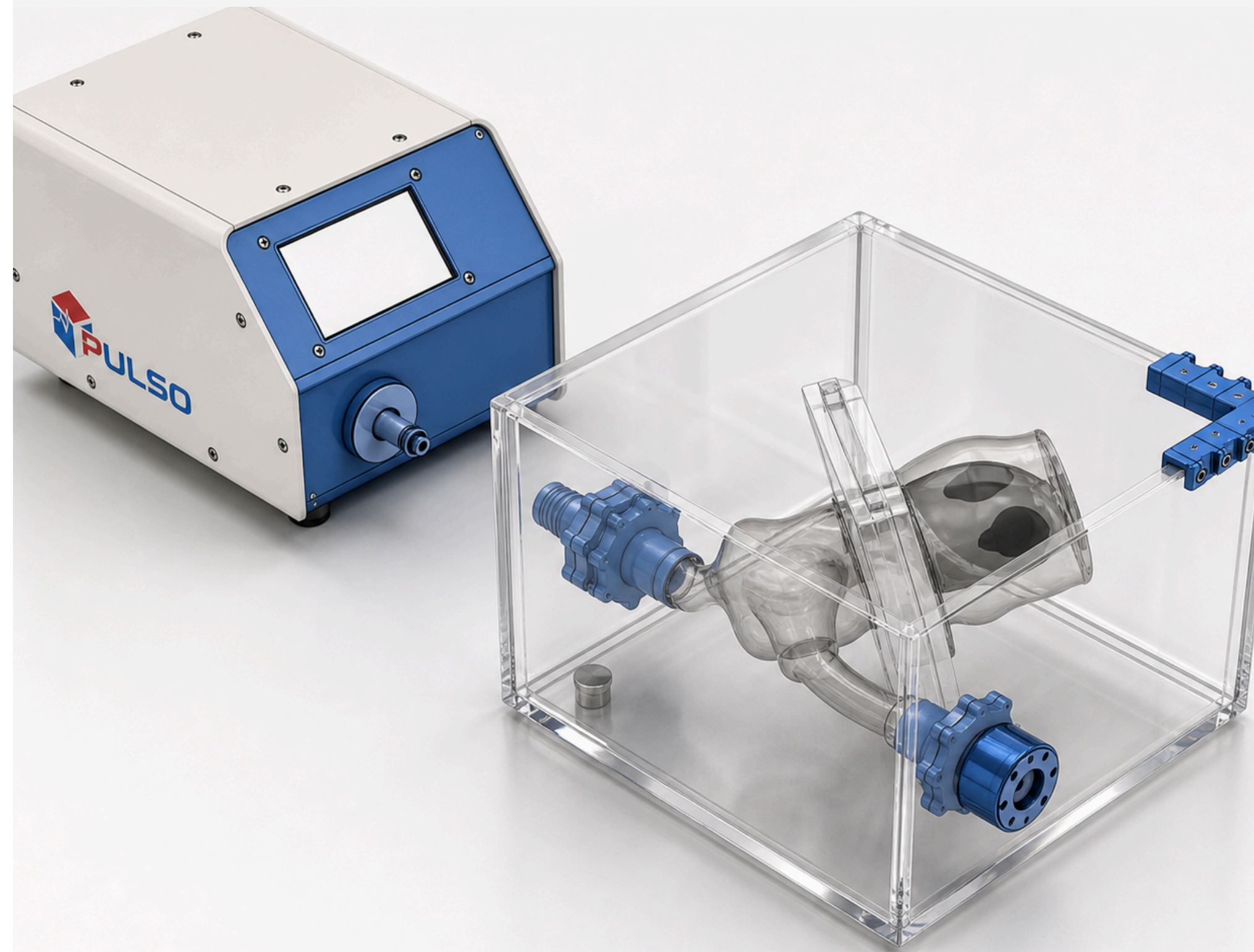


STRUCTURAL HEART TRAINING

A portable structural heart simulation platform for realistic device handling, imaging, and procedure rehearsal in a controlled in-vitro environment.

APPLICATIONS

Procedural Training | Device Testing | Delivery System R&D | Medical Education



BUILT FOR TRAINING. MODULAR FOR INNOVAITON.

ADJUSTABLE CHORDAE

Customizable tension, multiple pathologies

TOOL-FREE VALVE EXCHANGE

Rapid swaps of both valve and ventricle

SEMI-RIGID & FLEXIBLE ANATOMIES

Realistic navigation

NATIVE-LEAFLET MECHANICS

Matched tensile strength, puncturing and pulling forces

DUAL VIEW CAMERA SYSTEM

Top & bottom views

TEE PROBE INSERTION SLOT

Mid-esophageal and transgastric view



Pulso Sim is built on a fully modular architecture, where each component can be independently customized without impacting the rest of the platform. This enables targeted anatomical replication and pathology-specific configurations with high procedural realism.



SIMULATOR PARTS



MITRAL / TRICUSPID VALVE

- Standard valve model included — proprietary high-fidelity silicone
- Reinforced option — optimized for realistic grasping and traction*
- Integrated chordae for functional regurgitation simulation
 - Mitral: IC: 36.5mm AP: 26.5mm
 - Tricuspid: IC: 29.1mm AP : 20.4 mm

ACCESS PATHWAYS

- Configurable femoral and transjugular access
- Tissue-like friction through dedicated materials and coatings
- Optimized for realistic catheter and device navigation

PAPILLARY MUSCLE

- Custom geometries and compliance profiles
- Realistic tissue interaction and perforation behavior

ANATOMICAL MODELS

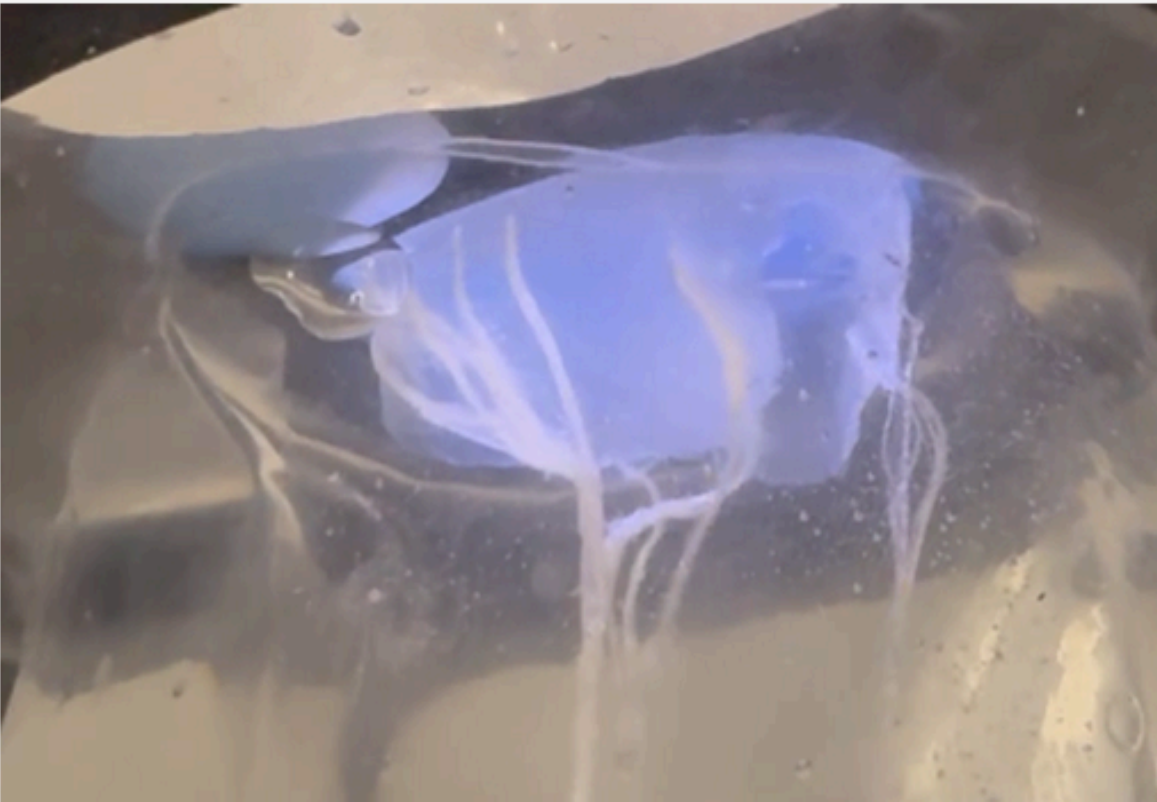
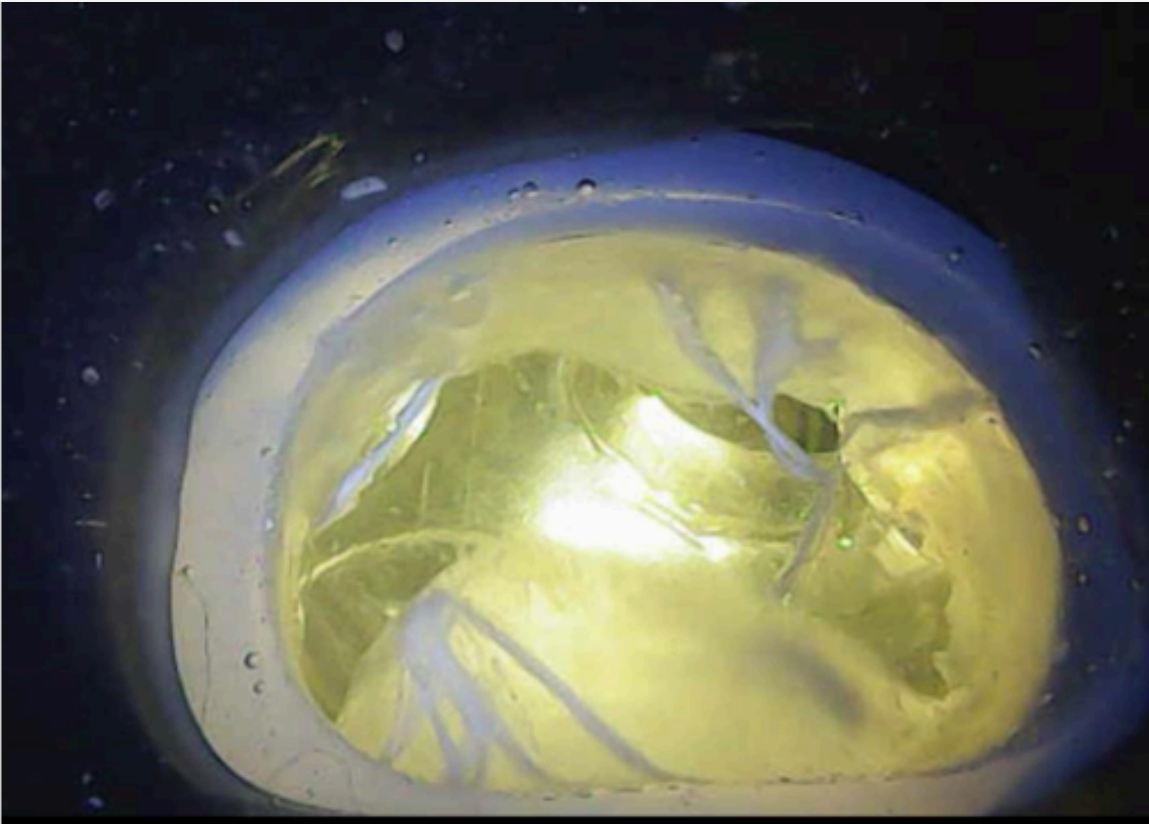
- Customizable atrial and ventricular anatomies
- Adaptable to specific morphologies and pathologies

All simulator components are fully customizable through 3D modeling — including valve annulus diameter, leaflet geometry and length — to match any target anatomy or pathology.

* Lab tests conducted deonstarted a pulling force in a range of 20N, comparable with in vivo leaeplet valve data.

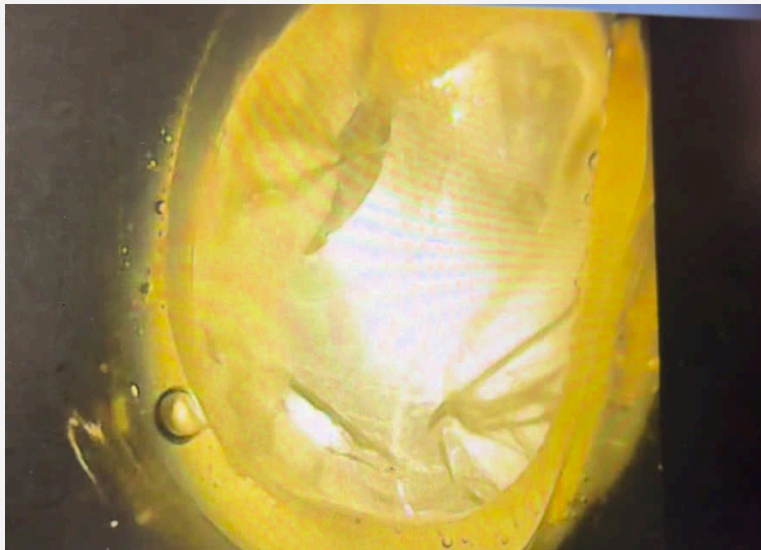


REALISTIC MOVEMENTS

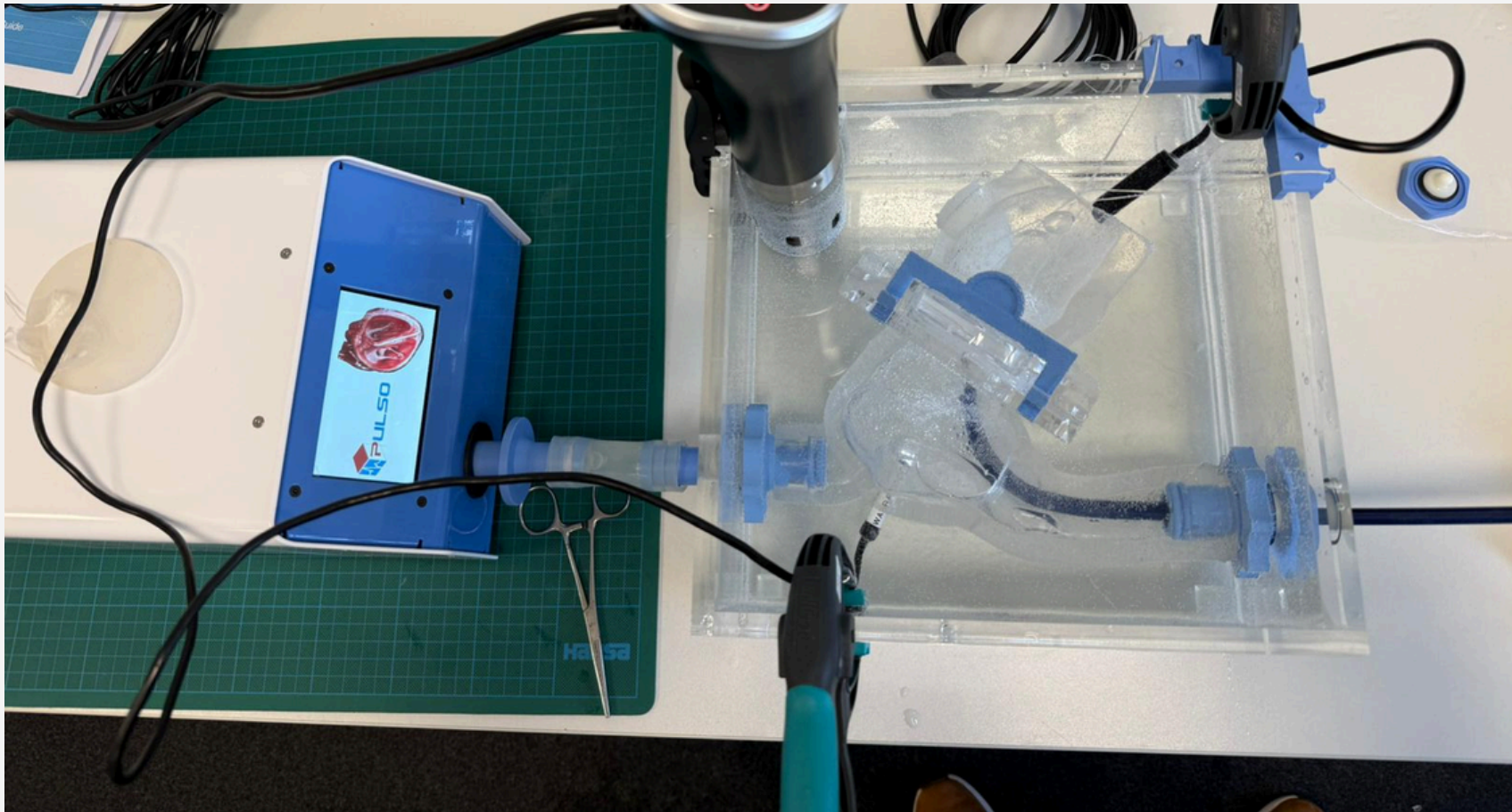


REALISTIC
MOVEMENTS

TOP VIEW MITRAL VALVE



LATERAL VIEW MITRAL VALVE



BOTTOM VIEW TRICUSPID VALVE



PULSATILE CONTROL UNIT

PUMP FEATURES & CHARACTERISTICS

- Dimensions : 20x 25x 20
- BPM : 30-90
- Stroke: adaptable
- Continuous operations (up to 12h)
- Portable

PULSATILE ADDED VALUE

By adjusting the stroke, the simulator can replicate functional mitral regurgitation and increase/decrease the coaptation force of the leaflets.

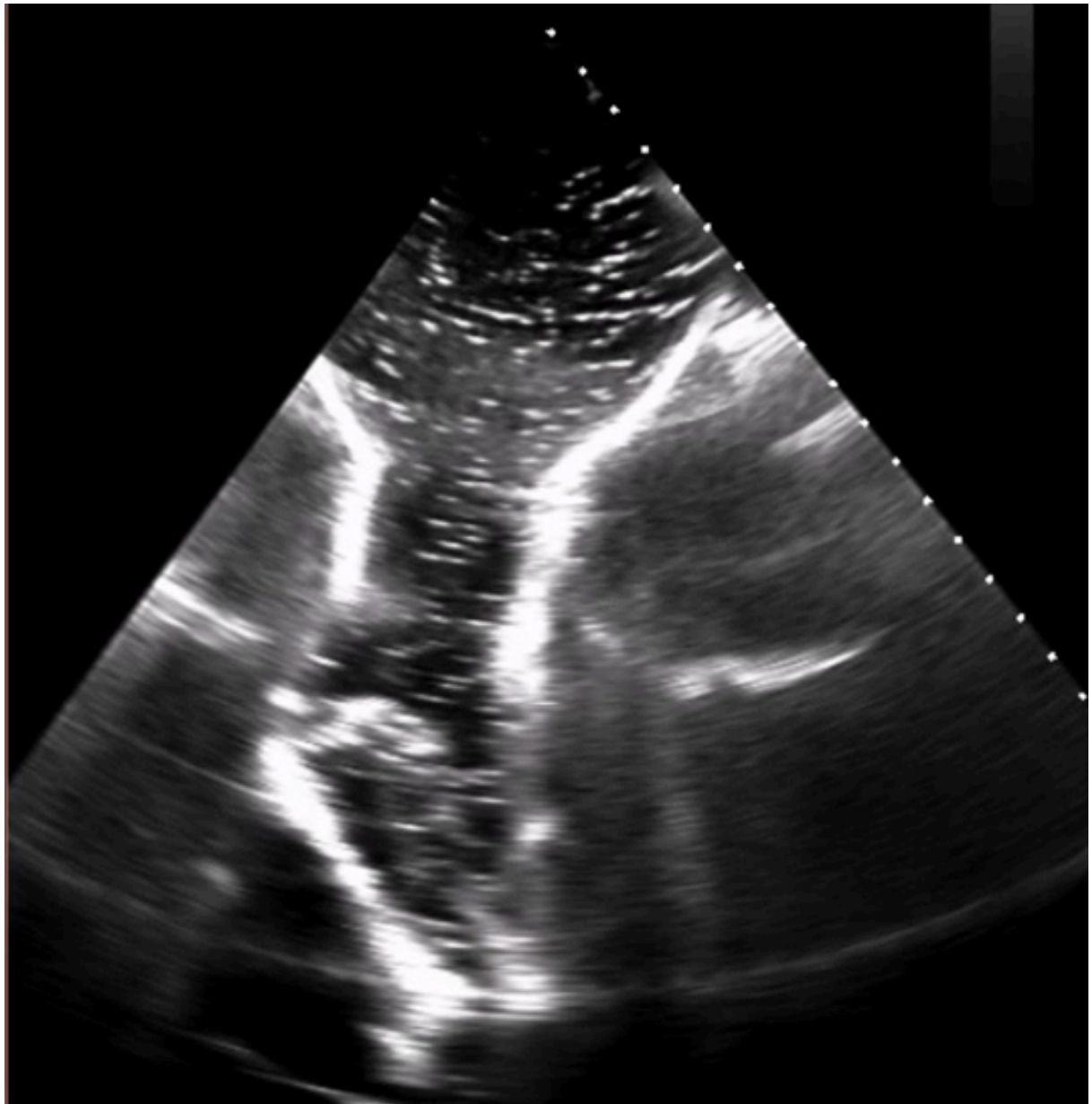
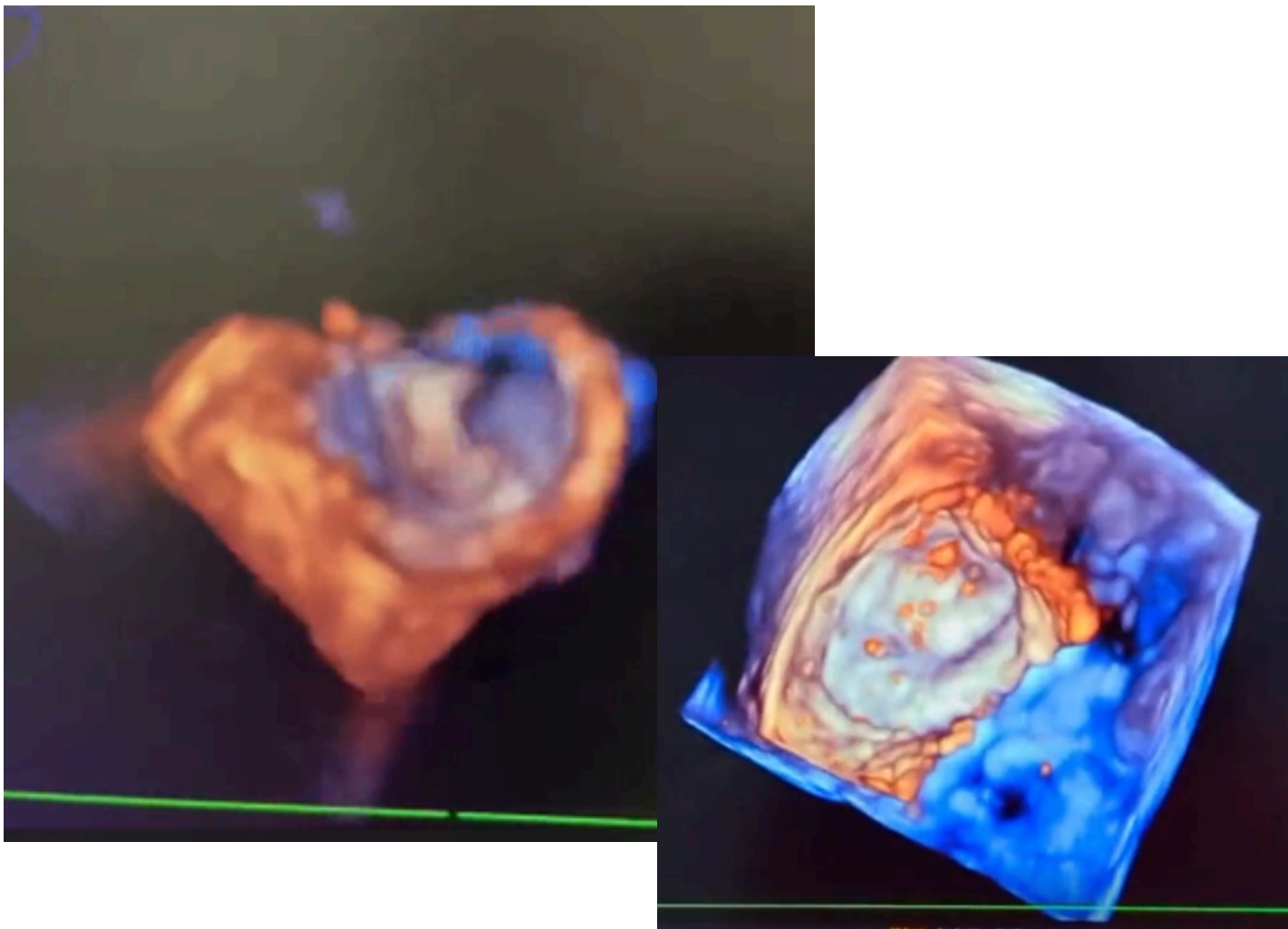


CARDIAC
SIMULATION

REAL
IMAGING.

ADVANCED IMAGING INTEGRATION

2D & 3D Echo | TEE compatible | Fluoroscopy Ready | Live imaging



Pulso sim integartes with real imaging systems including TEE and fluoroscopy, enabling authentic procedural simulation and advanced imaging workflows.



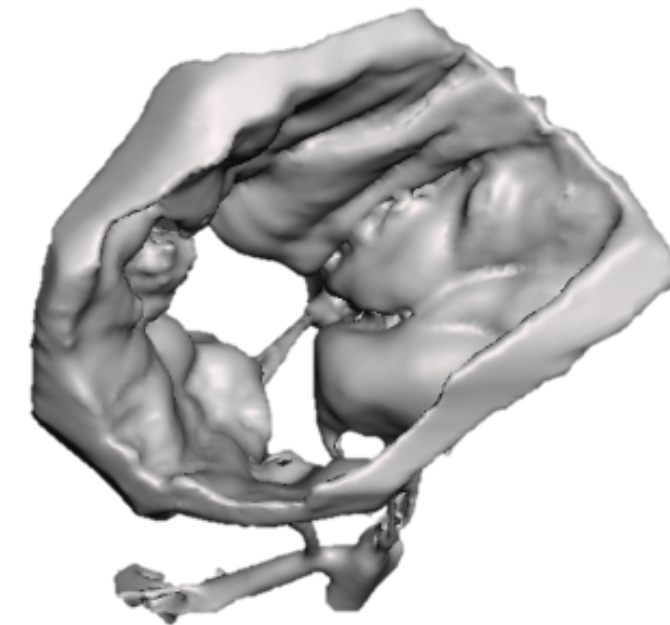
SILICONE STRUCTURES|
PATIENT- SPECIFIC MODELS|
REAL ANATOMICAL ACCESS|
TISSUE - LIKE INTERACTION

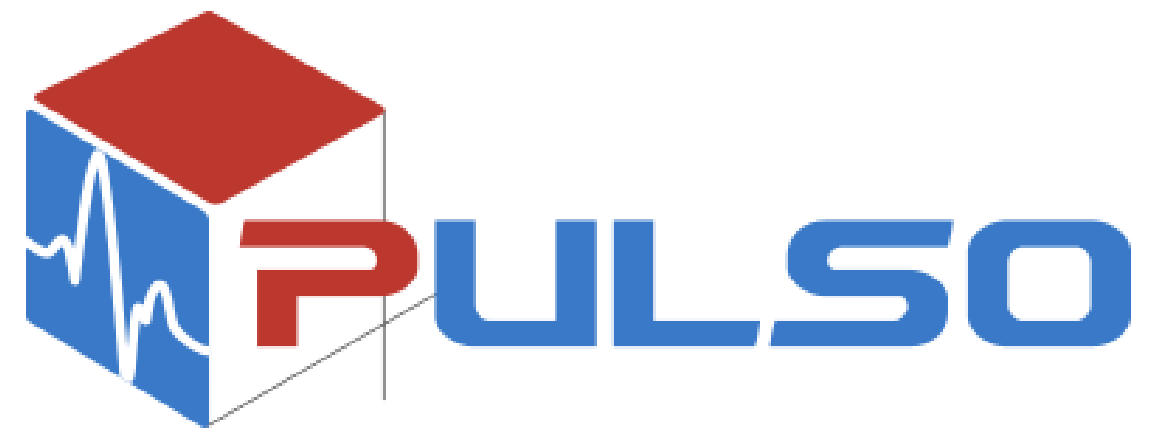
HUMAN - GRADE ANATOMY

PRECISION ENGINEERED FOR REALISM

Patient-Specific Silicone Anatomy, Ready for Hands-On Simulation

- CT-based anatomical reconstruction
- Transparent silicone models for real-time procedural visualization
- Flexible or semi-rigid options tailored to the application





LET'S CONNECT

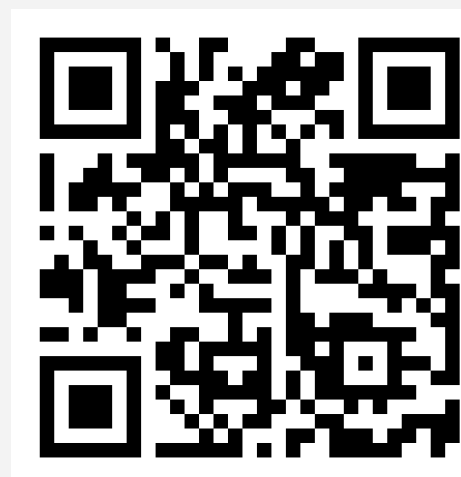
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