



**SHELLEY  
MEDICAL  
IMAGING  
TECHNOLOGIES**

*Sales Office*

London, Ontario, Canada  
Phone: 1 (519) 690-0874  
Fax: 1 (519) 690-0875  
Email: sales@simutec.com  
Web: www.simutec.com

**WORLD LEADER  
IN ANATOMICAL HUMAN  
VASUCULAR REPLICAS**



**THORAX RIGID  
REF: T-R-N-020**

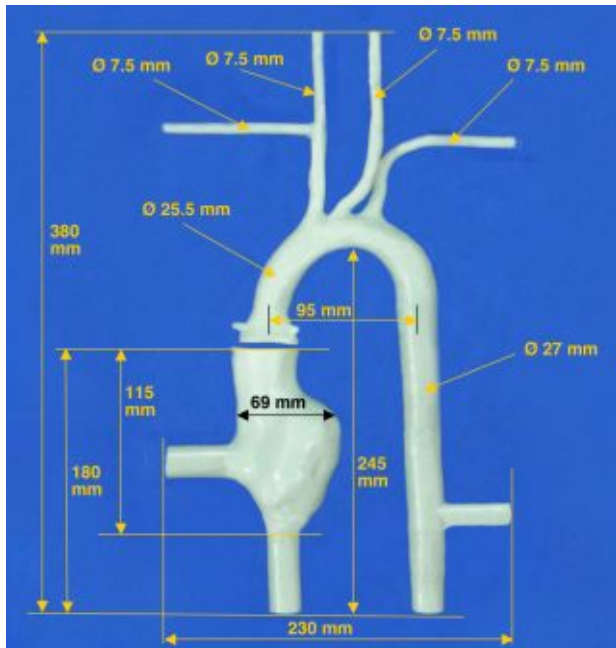
**TRANSCATHETER VALVE SIMULATOR HEART MODEL  
Developed with Dr. Ch. Huber**

The transcatheter Valve Simulator is an anatomically correct aortic implantation model composed of the left ventricular outflow tract, an exchangeable aortic valve, the aortic root with left and right coronary orifices, the complete aortic arch with supraaortic vessels and the descending aorta.

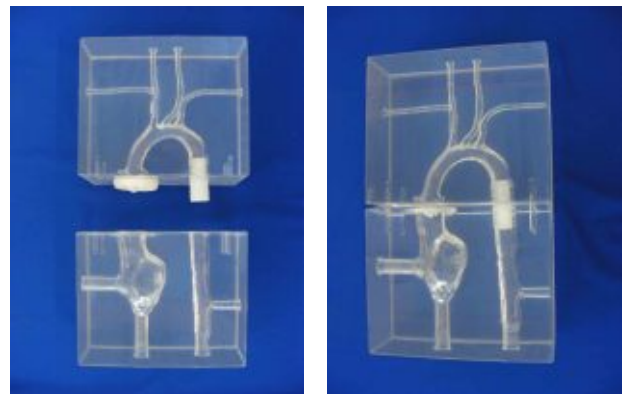
Model components have been designed in collaboration with Dr. Ch. Huber, Cardiovascular Surgeon and pioneer in the Trans Apical Procedure to ensure the most realistic and anatomically accurate Transcatheter Valve simulation platform.

The split-block model construction of the transcatheter valve model allows for easy exchange of the disposable aortic valve, after several uses. The design also ensures quick and easy recovery of devices deployed in the model. The model can be connected to a flow system allowing for simulation of physiologic flow waveforms.

Additionally, the unique design allows for a bidirectional approach including the antegrade transapical and the retrograde percutaneous access.



Transparent silicone models provide users with an ideal platform for Valve Stent development and in-vitro testing.



ELASTRAT replicas are compatible with modern imaging modalities such as digital subtraction angiography, computed tomography and magnetic resonance imaging. Providing the use of an adequate circulating fluid, Doppler techniques can also be performed. The in vitro models transparency to light makes them suitable for video and photographic monitoring.