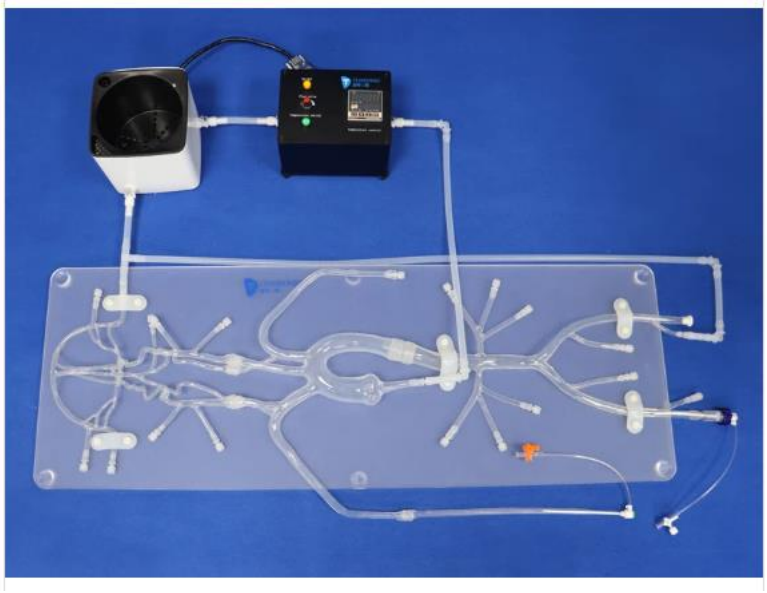
# Modelling of Blood Vessels

It specializes in developing, manufacturing, and selling 3D printed silicone vascular models, medical simulators, pulsation pumps, BP monitoring devices, and anatomy models. We can also provide personalized medical products.

I. Vascular Model of Full Body
II. Neuro Vascular Mode
III. Cardiothoracic Vascular Mode
3.1 Coronary Intervention Vascular Mode
3.2 Venous Heart Model
3.3 Aorta Mode
IV. Peripheral Vascular Model
V. Comprehensive Medical Simulator
VI. Pump & BP Monitoring Device



Product Details

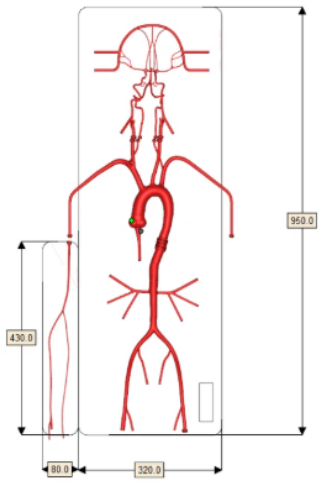
**I.Product Description**

This model extends from the femoral artery to A2 segment of anterior cerebral artery to M2 segment of the middle cerebral artery.

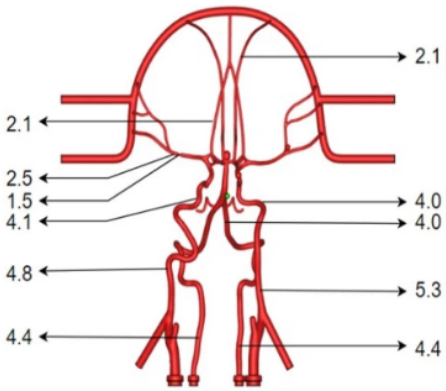
It contains a complete circle of Willis, 3 different sizes of intracranial aneurysm, and 1 embolism lesion, the arch section is arch Type I, but it can be customized to Type II, Type III, or variant arches upon request. the blood vessels models is fixed onto acrylic plate.The intracranial,aorta and abdomen part of the model can be connected and disassembled by our custom connectors,the above three parts can be customized and replaced according to your requirements. The model is based on human CT data, reconstructed and optimized to

accurately replicate the spatial structure and inner diameter of human blood vessels at a 1:1 scale. It is 3D printed and intended for testing, training, and demonstration purposes.

## II. Dimensional Drawing (unit:mm)




Size of model

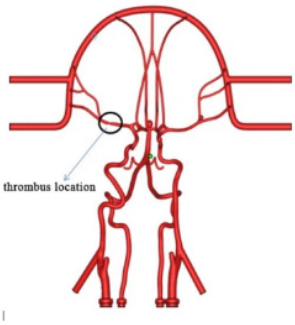



ID of Neuro Part & Aneurysm size

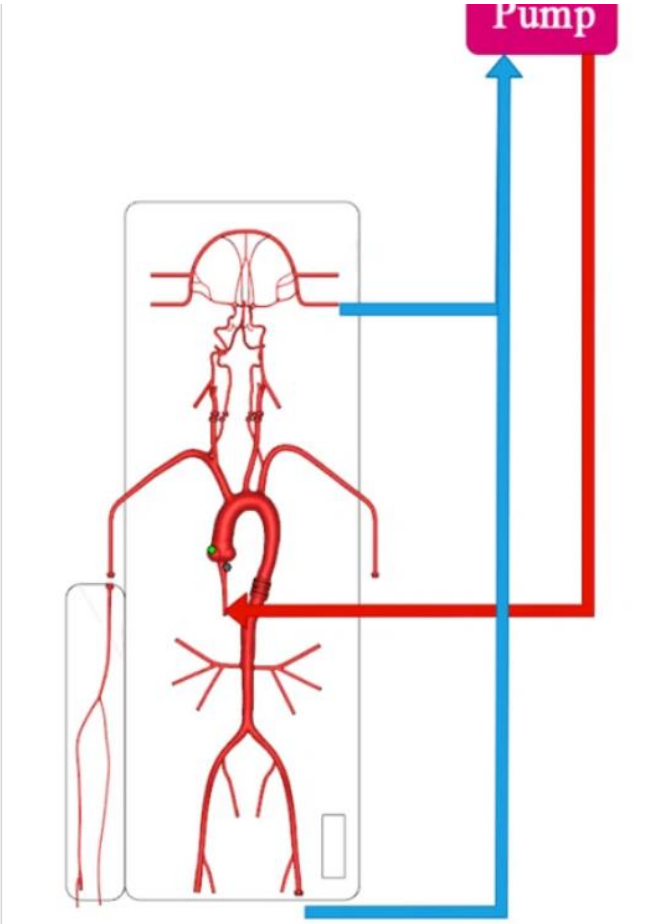
No 1: Neck 4.0, Length*Width*Height 6.0*6.0*7.0

No 2: Neck 3.0, Length*Width*Height 5.0*5.0*5.2

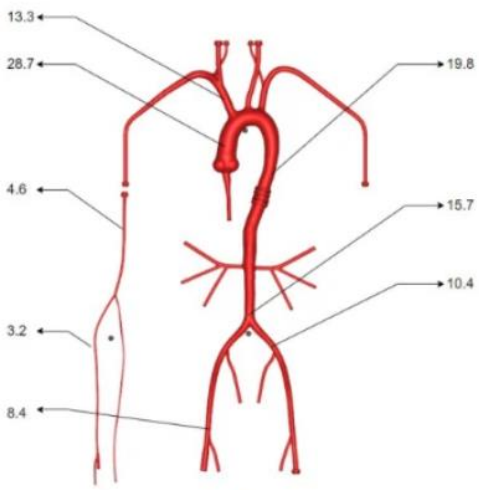
No 3: Neck 2.6, Length*Width*Height 4.0*4.0*4.7




Location of thrombus




Connection Drawing




ID of other parts

**II.Application**

2.1 Suitable for simulating aneurysm tamponade, thrombectomy operation and cerebral angiography.

2.2 Suitable for development, testing , verification & demonstration of some relevant device such as catheter, stent, balloon, guiding wire, microcatheter, etc.

2.3 Suitable for various neural interventional procedures training, device's marketing, training and education.

2.4 Suitable for quantitative analysis to blood perfusion(CTA,DSA,MRA,OOT,PIV and doppler sonography).

**III.Custom Service Options**

3.1 The number,size and location of intracranial aneurysm, the location of embolism lesion can be customized based on your requirements.

3.2 arteriovenous fistulas and other common lesions can be added to intracranial part.

3.3 Radial arteries on both sides intervention can be achieved.Aneurysms, stenosis and other lesions can be added onto carotid artery.

3.4 The aortic arch can be customized as arch type I, arch type II, arch type III and other types.

3.5 More complex structures can be added onto the abdominal part.

3.6 3D effect can be achieved by fixing the model onto dry transparent acrylic box.

3.7 Custom models can be produced based on CAD, STL, STP, STEP and other data provided by your side.