



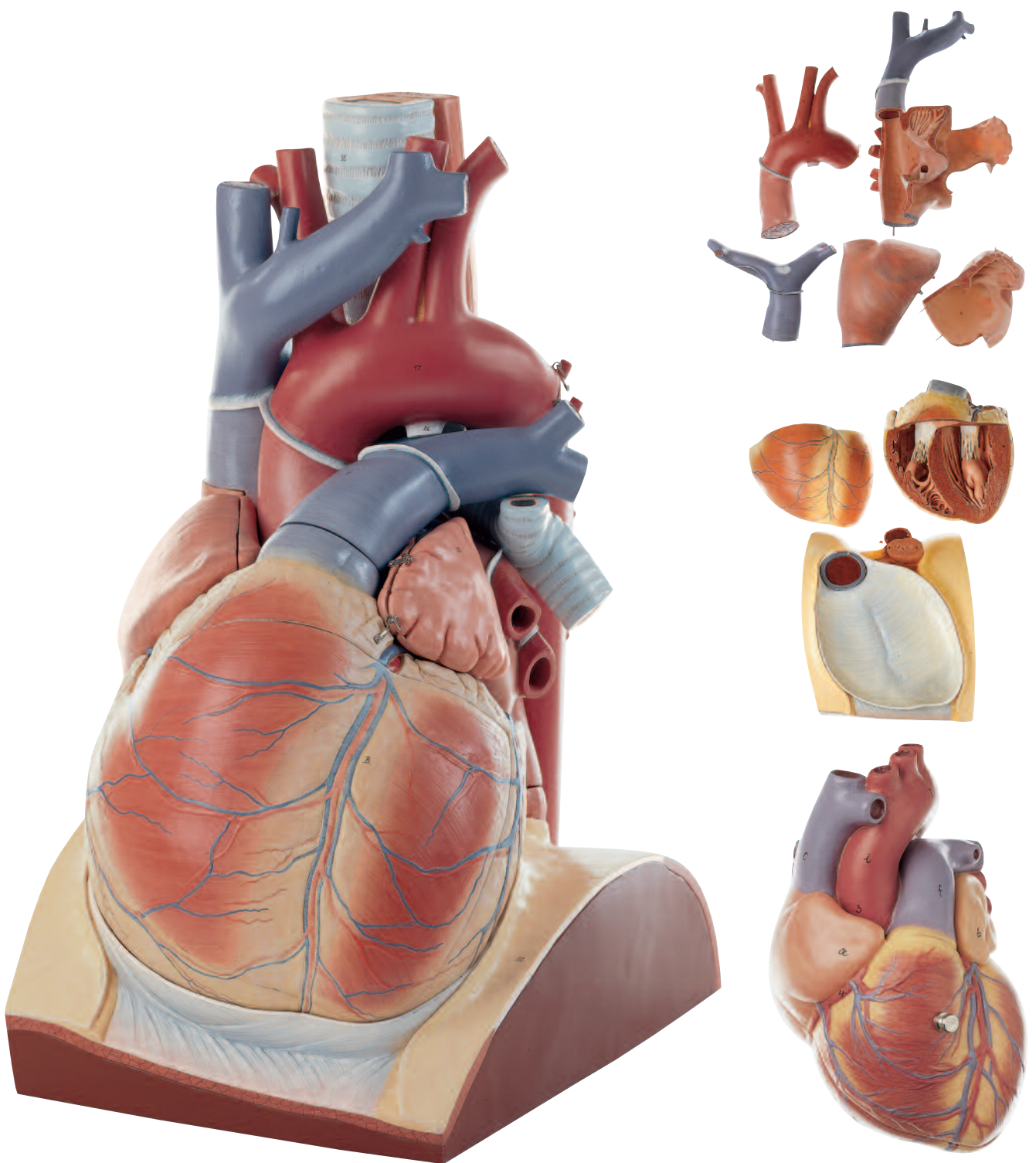
SOMSO  
MODELLE  
SINCE 1876

# *Nature* *is our* *Model*

CIRCULATORY ORGANS



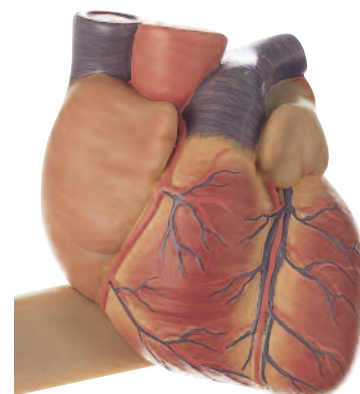
Medical Simulator  
INNOVACIÓN EN EDUCACIÓN



*In comparison SOMSO heart model in natural size.*

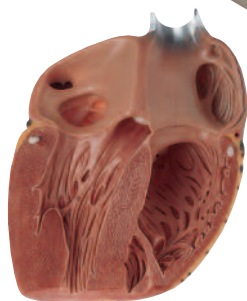
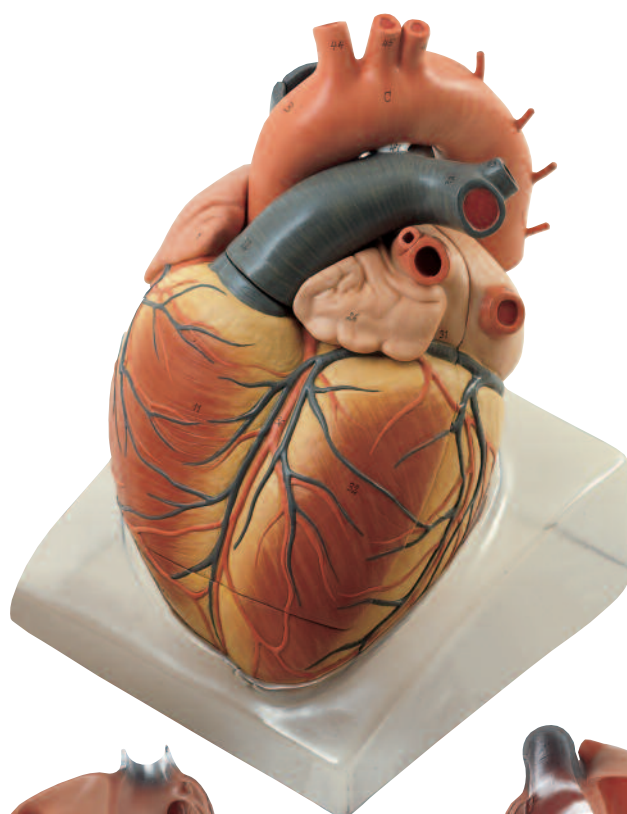
HS 1/1 · HEART

Lecture theatre model. Enlarged approx. 4 times, in SOMSO-Plast®. This model of the human heart can be separated and combined in many ways. It is mounted in a natural position on a diaphragm base and is of special interest for teaching in lecture theatres. The crown of the heart and the ventricular base can be demonstrated. The proportions of the pericardium can be demonstrated at the corresponding intersecting lines, the plane of the valve with semilunar and sigmoid valves and the passage of the coronary vessels can be demonstrated in their connection. Trachea and oesophagus can be seen as well as the descending aorta. Separates into 10 parts: base of the diaphragm, ventricular base with ventricles (2), crown of the heart, right auricle, left auricle, pulmonary artery, aorta (2), and trachea and oesophagus. On a green base. Height: 72 cm., width: 45 cm., depth: 68 cm., weight: 20 kg.



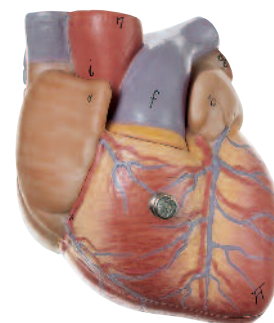
### HS 2/1 · HEART

About 3/4 natural size, in SOMSO-Plast®. In one piece. Height: 10 cm., width: 14 cm., depth: 9.5 cm., weight: 350 g.



### HS 1 · HEART

Enlarged approx. twice, in SOMSO-Plast®. The heart, sectioned vertically, separates into 2 parts towards the level of the ventricular septum after the arch of aorta and superior vena cava have been removed. Both auricles and ventricles with the bicuspid and tricuspid semilunar valves, as well as the sigmoid valves, can be seen. Separates into 3 parts. On a transparent base with green board which represents the vault of the diaphragm with the outline of the pericardium. Height: 33 cm., width: 24 cm., depth: 26 cm., weight: 2.8 kg.



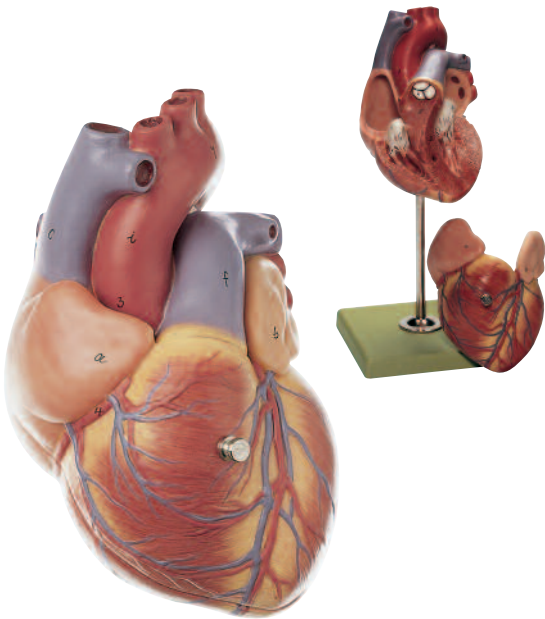
### HS 2 · HEART

About 3/4 natural size, in SOMSO-Plast®. Sectioned, the anterior part of the ventricles and of the auricles is removable. The semilunar and sigmoid valves are shown. Separates into 2 parts. Height: 12 cm., width: 9 cm., depth: 7 cm., weight: 300 g.



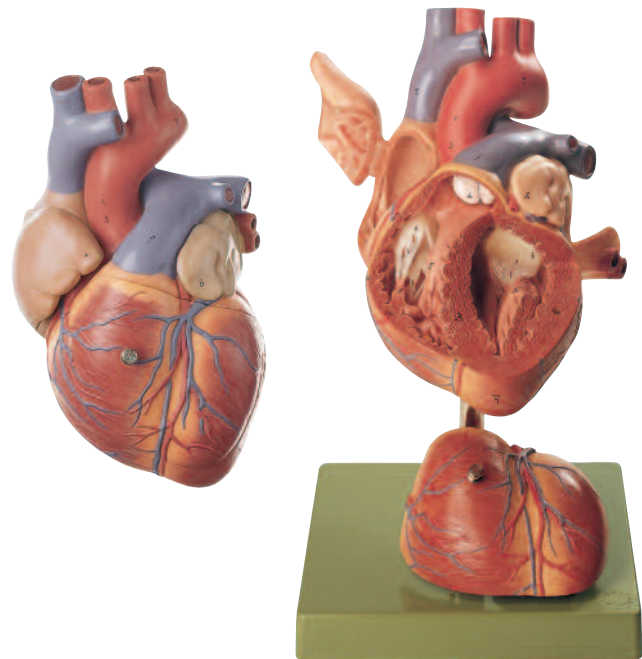
### HS 3 · HEART

About 3/4 natural size, in SOMSO-Plast®. As HS 2, but on a stand and green base. Separates into 2 parts. Height: 22 cm., width: 13 cm., depth: 12 cm., weight: 400 g.



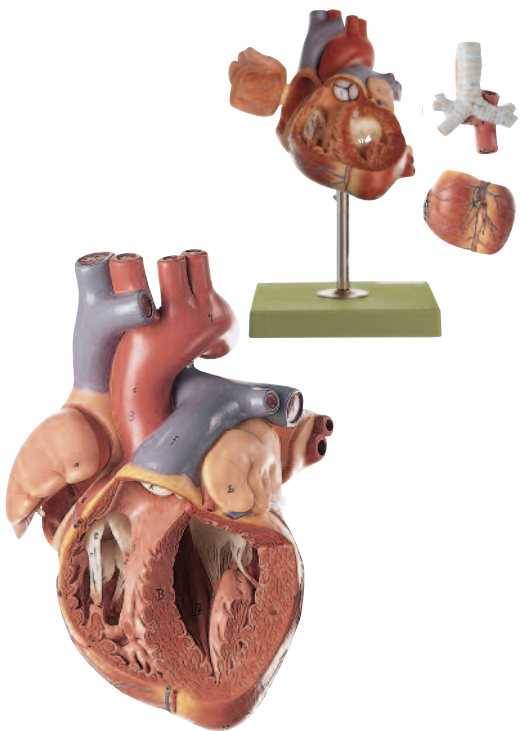
**HS 4 · HEART**

Natural size, in SOMSO-Plast®. Sectioned through the ventricles and auricles. The bicuspid and tricuspid, semilunar and sigmoid valves are shown. Separates into 2 parts. On a stand with green base. Height: 27 cm., width: 12 cm., depth: 14 cm., weight: 600 g.



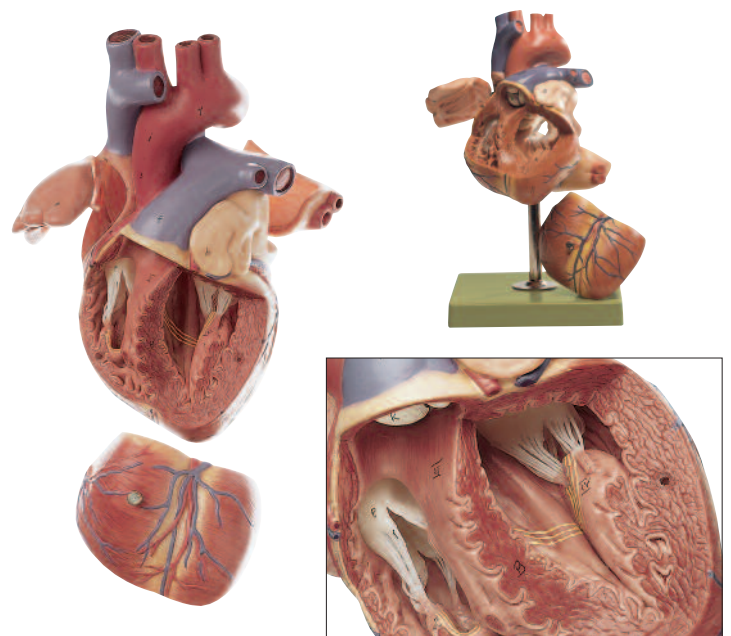
**HS 5 · HEART**

Approximately twice natural size, in SOMSO-Plast®. Sectioned so that both ventricles and atria open to expose the valves. Large blood vessels near the heart and musculature of the heart are shown. Separates into 4 parts. On a stand with green base. Height: 32 cm., width: 18 cm., depth: 19 cm., weight: 1 kg.



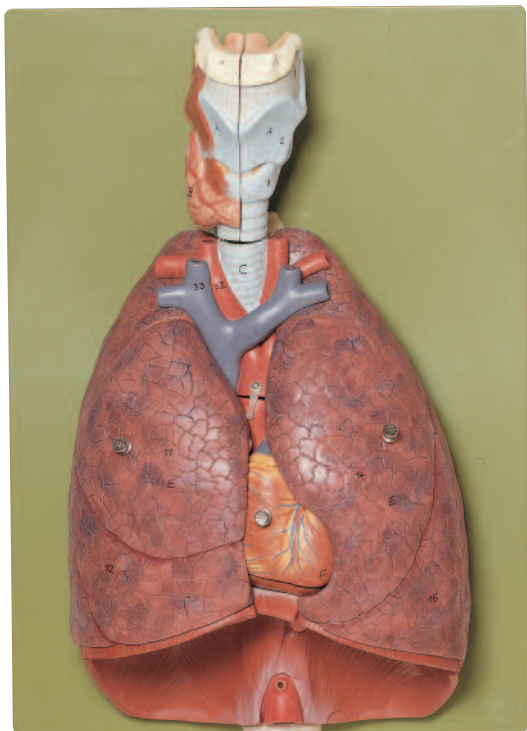
**HS 6 · HEART**

Approximately twice natural size, in SOMSO-Plast®. As HS 5, but with part of the trachea (until the bifurcation) and oesophagus. Separates into 5 parts. On a stand with green base. Height: 32 cm., width: 19 cm., depth: 19 cm., weight: 1.2 kg.



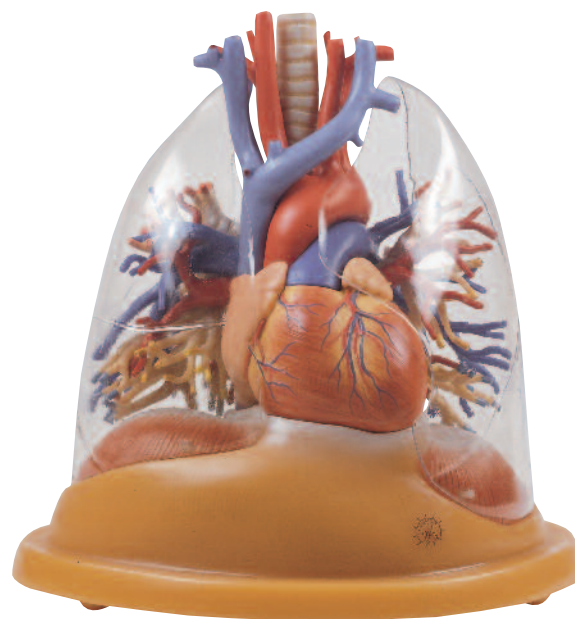
**HS 6/1 · HEART WITH CONDUCTING SYSTEM**

Approximately twice natural size, in SOMSO-Plast®. Sectioned so that both ventricles and atria open to expose the valves. Large blood vessels near the heart and the heart muscles are shown. The conducting system and the excitation system of nerve tracts with the addition of the sinoauricular and atrioventricular nodes, the trunk and the atrioventricular bundle are shown. Separates into 4 parts. On a stand with green base. Height: 32 cm., width: 18 cm., depth: 19 cm., weight: 1 kg.



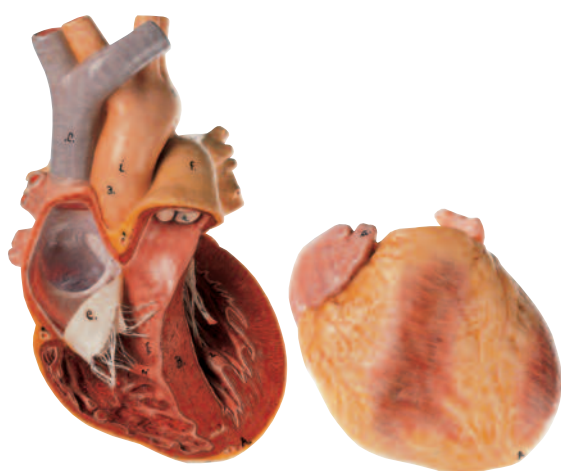
### HS 7 · LUNGS WITH HEART, DIAPHRAGM AND LARYNX

About 3/4 natural size, in SOMSO-Plast®. The model shows the viscera of the thorax. Separates into 7 parts: lungs, right and left, heart (2), larynx (2), base model. Bifurcation of the trachea and oesophageal hiatus with aortic hiatus in the diaphragm is demonstrated. Mounted on a green board. Height: 39 cm., width: 28 cm., depth: 12 cm., weight: 2.3 kg.



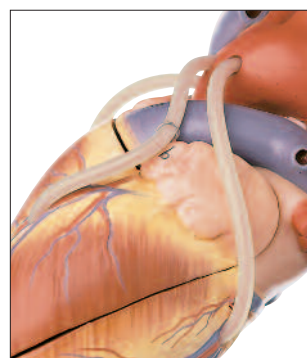
### HS 8/2 · HEART-LUNG TABLE MODEL

After head physician J. A. Nakhosteen, MD., F. C. C. P. About 2/3 natural size, in SOMSO-Plast®. The model shows the tracheobronchial system, the heart, the major vessels and the pulmonary vessels extending to subsegmental divisions. Separates into 4 parts. Height: 26 cm., width: 25 cm., depth: 19 cm., weight: 1.5 kg.



### HS 26 · HEART

Cast from natural specimen, in SOMSO-Plast®. Cast from a natural young heart this model very clearly shows the inner sides of atria and ventricles, in particular the papillary muscles and the valves. Separates into 2 parts. On a stand with green base. Height: 30 cm., width: 18 cm., depth: 18 cm., weight: 700 g.



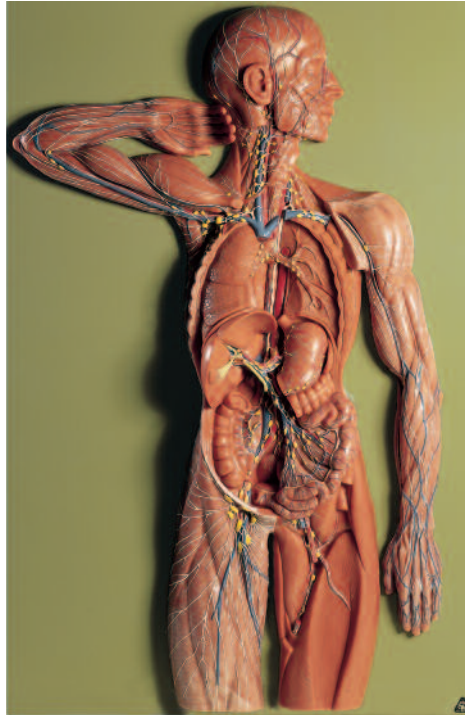
### HS 15/1 · MODEL OF THE HEART WITH BYPASS VESSELS (AORTIC CORONARY VENOUS BYPASS)

Natural size, in SOMSO-Plast®. Developed in co-operation with Prof. Dr. Meisner. The model shows one venous bypass leading to the right coronary artery as well as the descending anterior interventricular ramus (anterior wall) and the circumflex ramus of the left coronary artery. Separates into 2 parts. On a stand and green base. Height: 28 cm., width: 12 cm., depth: 15 cm., weight: 630 g.



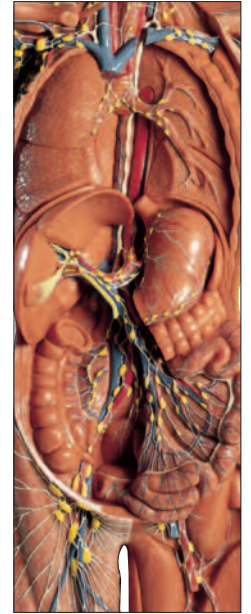
**HS 10 · CIRCULATORY SYSTEM**

Relief model, 2/3 natural size, in SOMSO-Plast®. General view of the network of vessels of the body. In one piece. Mounted on a green board. Height: 91 cm., width: 32 cm., depth: 7 cm., weight: 4.7 kg.



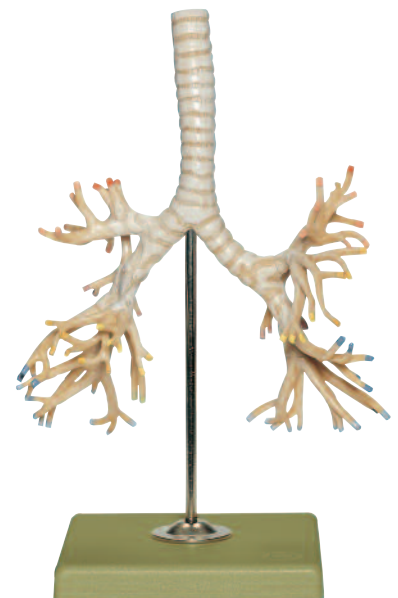
**HS 19/1 · LYMPHATIC SYSTEM**

Relief model, approx. 2/3 natural size, in SOMSO-Plast®. In one piece. Mounted on a green board. Height: 84 cm., width: 54 cm., depth: 12 cm., weight: 10 kg.



**HS 22 · HEART ON DIAPHRAGM BASE**

Natural size, in SOMSO-Plast®. Separates into 8 parts: diaphragm with section of pericardium, thymus gland, apex of the heart, lower part of the ventricles and ventricles. 4 valves open to show the right and left atria and right and left ventricles. The proportions of the pericardium can be demonstrated at the corresponding intersecting lines, the plane of the valve with semilunar and sigmoid valves and the passage of the coronary vessels can be demonstrated in their connection. On a green base. Height: 29 cm., width: 18 cm., depth: 19 cm., weight: 1.3 kg.



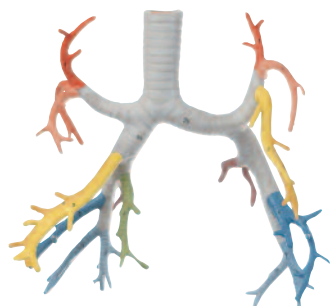
**HS 8/4 · BRONCHIAL TREE**

After head physician J. A. Nakhosteën, MD., F. C. C. P. About 2/3 natural size, in SOMSO-Plast®. In one piece. On a stand with green base. Height: 23 cm., width: 17 cm., depth: 12 cm., weight: 200 g.



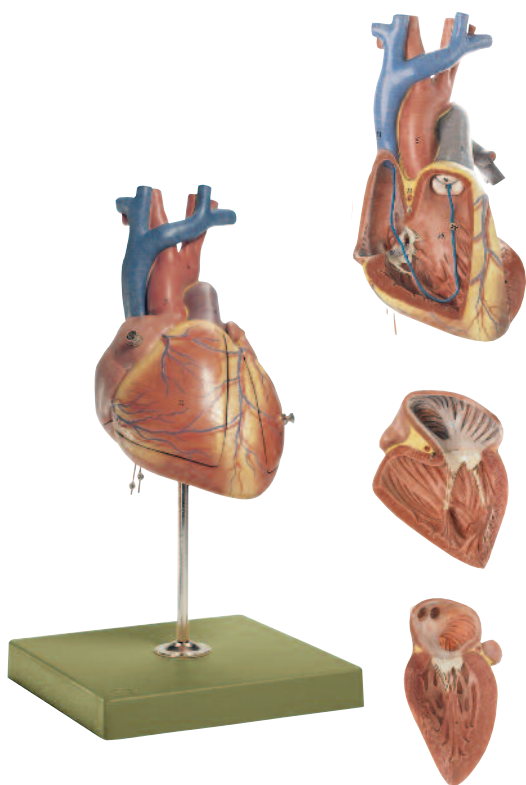
### HS 20/1 · RED BLOOD-CORPUSCLE

Enlarged approx. 11.000 times, in SOMSO-Plast®. In one piece. Weight 80 g.



### HS 21/1 · BRONCHIAL TREE

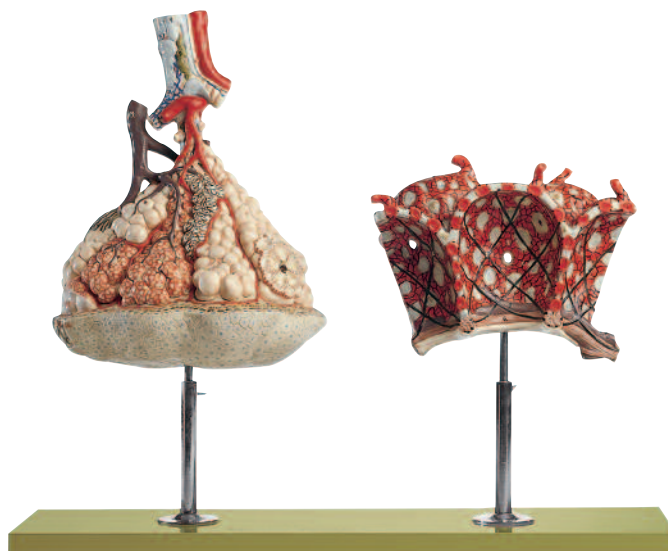
Isolated from HS 21, natural size, in SOMSO-Plast®. In one piece. On a stand with green base. Height: 31 cm., width: 21 cm., depth: 18 cm., weight: 400 g.



### HS 24 · FETAL HEART

Enlarged approx. 3 to 4 times, in SOMSO-Plast®. The model shows the heart of a fetus during the last weeks of pregnancy. The circulation of the blood is shown. Separates into 3 parts. On a stand with green base. Height: 34 cm., width: 18 cm., depth: 18 cm., weight: 1.1 kg.

*The model of heart defects (catalogue page 110) forms a valuable supplement*



### HS 23 · LOBULE OF THE LUNG WITH ADDITIONAL MODEL PULMONARY ALVEOLI

1. Lobule of the lung: enlarged approx. 150 times, in SOMSO-Plast®. Representation of lobule with arterial and venous circulation and bronchial branches. One acinus open to show the alveolar duct.

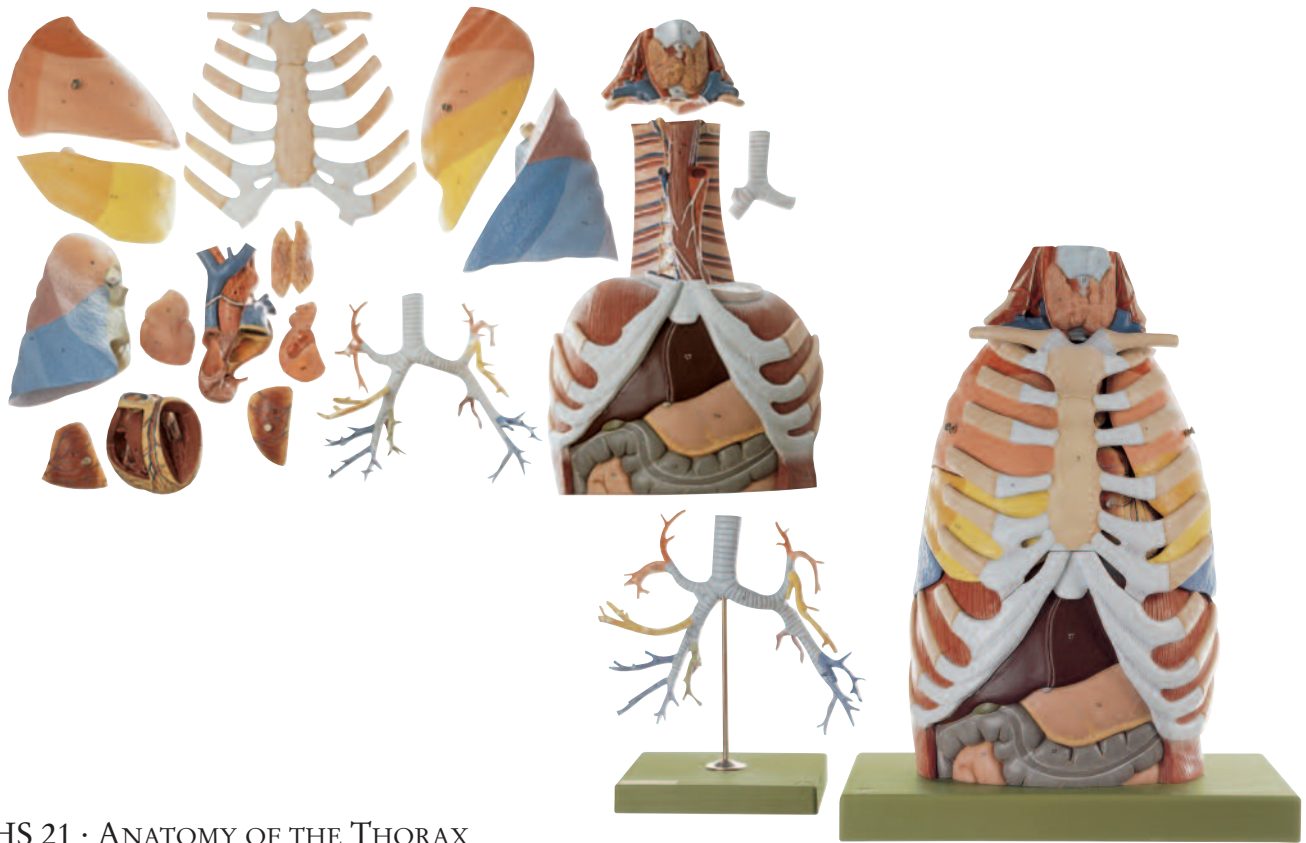
2. Model of an adjacent alveolus: enlarged approx. 1000 times, in SOMSO-Plast. Representation of the alveolar wall, its vessels, the epithelial cover and the elastic and muscular elements. The separate passage of the arterial and venous vessels is clearly visible at this magnification. In one piece. On a stand with green base. Height: 43 cm., width: 48 cm., depth: 16 cm., weight: 2.5 kg.



### HS 23/1 · LOBULE OF THE LUNG

Enlarged approx. 150 times, in SOMSO-Plast®. In one piece. On a stand with green base. Height: 43 cm., width: 23 cm., depth: 18 cm., weight: 1.4 kg.

# ANATOMY 9 - CIRCULATORY ORGANS



## HS 21 · ANATOMY OF THE THORAX

Natural size, in SOMSO-Plast®. Separates into 17 parts: sternum, organs of the neck, right lung (3), left lung (2), heart (7), bronchial tree, base model. On a green base. Height: 52 cm., width: 39 cm., depth: 26 cm., weight: 7.1 kg. (Bronchial tree of HS 21: Height: 31 cm., width: 21 cm., depth: 18 cm., weight: 400 g.)



## HS 25/1 · DELICATE FORMATION OF AN ARTERY AND VEINS

Enlarged many times, in SOMSO-Plast®. Description as for HS 25, but the painting is after Volkmann-Strauß-Elastica. Separates into 3 parts. On a green base. Height: 63 cm., width: 39 cm., depth: 31 cm., weight: 6 kg.



## HS 25 · DELICATE FORMATION OF AN ARTERY AND VEINS

Enlarged many times, in SOMSO-Plast®. The model has been made after a vascular preparation of the lower leg. Representation of the individual vascular layers. The valves of the vein are shown closed and open. Separates into 3 parts. On a green base. Height: 63 cm., width: 39 cm., depth: 31 cm., weight: 6 kg.



## HS 25/2 · ARTERY AND VEIN

Enlarged many times, in SOMSO-Plast®. The model has been made after a vascular preparation of the lower leg. Representation of the individual vascular layers, the valves of vein are shown closed and open. In one piece. On a green base. Height: 63 cm., width: 39 cm., depth: 26 cm., weight: 4.2 kg.

