SOMSO® MODELL
Nature is our model
SINCE 1876
Manufacturing original SOMSO® Models requires a great degree of specialised hand work. Craftsman-ship perfects the model. Technology and hand work form a rare symbiosis. SOMSO® Models therefore have that unique, single piece character of manufacture. This way their value exceeds that of a standard industrial product by far. SOMSO® Models are manufactured exclusively by highly qualified skilled employees in Sonneberg, Thuringia and in Coburg, Bavaria.

In 1876, Marcus Sommer Snr. founded in his home town of Sonneberg, Thuringia a factory for the manufacture of anatomical models, which back then were all made exclusively by hand. His son Fritz, his grandson Marcus Jnr., his great-grandson Hans, his great-great-grandson Louis-Benedikt have continued the company SOMSO MODELLE to its worldwide recognition today.

A family business of over 140 years is an incentive, as well as a responsibility, for the future, to continue the work of past generations. The tradition of the family business continues: the year 2007 saw the company being converted into a GmbH (limited liability company) and the fifth generation being appointed to the management board.

Taking the highest educational and scientific requirements as a benchmark, SOMSO® has been manufacturing originals for 140 years. Their shape and functionality, as well as the fact that they can be dismantled, makes them the tried and tested basis for stimulating teaching. „Nature is our model“ - this is the guiding principle for the realistic representation as the standard.

**NATURE IS OUR MODEL**

**SOMSO® GUARANTEE**

SOMSO®, as a worldwide recognised manufacturer, provides a five-year warranty on service life and operational reliability of almost all models (subject to correct use), with the exception of medical training phantoms.

**SOMSO® SUN - A SYMBOL FOR QUALITY**

The figurative logos of the SOMSO® Sun, SOMSO® and SOMSO®-Plast, as well as the green base for our models, are nationally and internationally registered trademarks. Our manufacturing and delivery programme includes anatomical, zoological, botanical teaching models as well as medical training phantoms. Continuing development and on-going input by renowned scientists and experts, guarantees solid, up-to-date and educationally well-founded imparting of knowledge.

**SOMSO® GUARANTEE**

SOMSO® GUARANTEE 5 Years

SOMSO®-Catalogue A 76/9

Anatomy - Zoology - Botany
Especially in biology classes, it is all about identifying structures and connections. Be it human, animal or plant - the better the model represents reality, the easier it is for the learner to comprehend, to understand. To comprehend means to touch, to look - and the physical-material dimension is added to the intellectual dimension. SOMSO® Models are the ideal complement to dynamic and stimulating teaching.

1. SOMSO® Models are protected by copyright. In case of any replications of SOMSO® Models, we reserve the right to assert injunctive reliefs and claims for damages.

2. Close collaboration with scientific institutions ensures that SOMSO® Models are consistently developed in compliance with the current state of scientific knowledge.

3. Highly qualified teaching materials for school and science since 1876 - SOMSO® Models are mainly made from virtually unbreakable SOMSO® Plast, provided all the numbers in the catalogue A 76/9.

4. The versions, dimensions and weights stated in the catalogue can change as a result of technical or scientific improvements. SOMSO® Models are supplied with model descriptions that are prepared by proficient scientists.

5. Functional models make biological processes more understandable. In this catalogue, all functional models are marked with an F. All flexibly mounted skeleton parts of category QS are included under functional models. Functional models are subject to normal wear and tear, due to the nature of the material.

6. SOMSO® Models feature true-to-life representation technique, attention to detail and can be disassembled.

7. SOMSO® Models are manufactured by a highly qualified and skilled workforce - by hand and exclusively in Sonneberg and Coburg.

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AS 1 · MALE
MUSCLE FIGURE
About 1/2 natural size, made from SOMSO®-Plast. Separates into 27 parts in total: cranium; brain (2); thoracic and abdominal wall; halves of the lung (2); heart (2); liver; stomach; duodenum, small and large intestines; right arm; left arm with four removable muscles; muscles of the leg (9); body. On a stand with green base. Height 86 cm, (figure 82 cm), width 49 cm, depth 38 cm, weight 7.2 kg

AS 2 · TORSO M ODELS - A NATOMY AS A HARMONIOUS UNITY FOR MODERN

AS 12 · TORSO OF YOUNG MAN WITHOUT HEAD
Natural size, made from SOMSO®-Plast. Separates into 12 parts. On a green base. Height 71 cm (torso 67 cm), width 39 cm, depth 26 cm, weight 8.7 kg

AS 3 · MALE MUSCLE FIGURE
About 1/4 natural size, made from SOMSO®-Plast. Cannot be disassembled. On a removable green base. Height 53 cm (figure 50 cm), width 33 cm, depth 15 cm, weight 1.5 kg

AS 4/1 · TORSO WITH HEAD AND INTERCHANGEABLE MALE AND FEMALE GENITALIA
Natural size, made from SOMSO®-Plast. Separates into 16 parts. On a green base. Height 92 cm (torso 88 cm), width 40 cm, depth 26 cm, weight 12 kg

AS 4/1 disassembled

LOOK OUT FOR THE ORIGINAL WITH THE SOMSO® SUN!
AS 16 · TORSO OF YOUNG MAN WITH HEAD
Natural size, made from SOMSO®-Plast. Separates into 12 parts. On a green base. Height 91 cm (torso 87 cm), width 39 cm, depth 26 cm, weight 9 kg

AS 20/4 · SMALL TORSO OF YOUNG MAN WITHOUT HEAD
About 1/3 natural size, made from SOMSO®-Plast. Separates into 7 parts. On a removable base. Height 28 cm (torso 26 cm), width 17.5 cm, depth 14 cm, weight 1.7 kg

AS 20/5 B · SMALL TORSO OF YOUNG MAN WITH HEAD
About 1/3 natural size, made from SOMSO®-Plast. Separates into 9 parts. On a removable base. Height 37 cm (torso 35 cm), width 17.5 cm, depth 14 cm, weight 2.0 kg

AS 20/1 · SMALL TORSO OF YOUNG MAN WITH HEAD
About 1/2 natural size, made from SOMSO®-Plast. Separates into 11 parts. On a green base. Height 52 cm (torso 49 cm), width 21 cm, depth 18 cm, weight 3.15 kg

AS 23/2 · TORSO WITH HEAD AND OPEN BACK
Natural size, made from SOMSO®-Plast, with muscles on one side and interchangeable male and female genitalia. Separates into 20 parts. On a green base. Height 90 cm (torso 86 cm), width 39 cm, depth 26 cm, weight 11.2 kg

Hand-crafted manufacturing exclusively in Germany.
SOMSO® Models are manufactured solely by highly qualified, skilled employees in Sonneberg and Coburg. Despite the use of industrial components, the artisan finishing has the unmistakable character of traditional manufacture. Individual painting by hand makes each and every SOMSO® Model a distinctively unique specimen.
ANATOMY
Head and Nervous System

The brain and its details in a multitude of possible combinations -
**BS 25 · Model of the Brain in 15 Parts**
Natural size, made from SOMSO®-Plast, after Prof. Dr. med. Dr. med. h.c. J. W. Rohen, Anatomical Institute of the University of Erlangen. On a green base. Height 23 cm, width 15 cm, depth 18 cm, weight 1.8 kg.

**BS 24 · Ventricular Cavities of the Brain**
Natural size, made from SOMSO®-Plast, after a specimen at the Anatomical Institute of Würzburg. On a stand with green base. Height 23 cm, width 15 cm, depth 18 cm, weight 200 g.

**BS 5/5 · Anatomical Sectional Model of the Head**
Natural size, made from special plastic (combined with corresponding CT and MR imaging), after Prof. Dr. med. Dr. med. h.c. J. W. Rohen, Anatomical Institute of the University of Erlangen. The sections shown in the model are mounted on a vertical support so that they can be swivelled out individually and then compared with the respective CT or MR image. On a stand with green base. Height 34 cm, width 46 cm, depth 30 cm, weight 6.2 kg.

**BS 25/1 · Model of Brain with Indicated Cytoarchitectural Areas**
Natural size, made from SOMSO®-Plast, after Prof. Dr. med. Dr. med. h.c. J. W. Rohen, Anatomical Institute of the University of Erlangen. On a green base. Height 23 cm, width 15 cm, depth 18 cm, weight 1.8 kg.

**SOMSO® Models for School and Science**
SOMSO® Models are used in many areas of education. The range of models takes into consideration the requirements of both a lecture theatre and a seminar. Renowned professors contribute to the continuous development and improvement of SOMSO® Models.
BS 27 · NERVOUS SYSTEM
Relief model, about 1/2 natural size, made from SOMSO®-Plast. Schematic representation of the central and peripheral nervous system. In one piece, on a green base. Height 91 cm, width 32 cm, depth 6 cm, weight 5.5 kg

BS 30 · FIFTH CERVICAL VERTEBRA
Enlarged approximately 7 times, made from SOMSO®-Plast. The model shows a cross section of the spinal cord with spinal nerves, spinal ganglion, vertebral artery and vein. In one piece, on a green base. Height 28 cm, width 40 cm, depth 10 cm, weight 1.6 kg

BS 29 · CERVICAL VERTEBRA (C VI) WITH SPINAL CORD
Natural size, made from SOMSO®-Plast. Spinal nerves, spinal ganglion, and vertebral artery are shown. Spinal cord also shown in cross section. Cannot be disassembled. On a stand with green base. Height 14 cm, width 12 cm, depth 12 cm, weight 100 g

BS 28/1 · THORACIC VERTEBRA (TH II) WITH SPINAL CORD
Natural size, made from SOMSO®-Plast. Spinal nerves, spinal ganglion, spinal cord in cross section. Cannot be disassembled, on a stand with green base. Height 14 cm, width 12 cm, depth 12 cm, weight 200 g

BS 28 · LUMBAR VERTEBRA (L II) WITH LUMBAR REGION OF SPINAL CORD
Natural size, made from SOMSO®-Plast. Nerve endings, filum terminale, and cauda equina of the spinal cord (also in cross section) are shown. Separates into 2 parts. On a stand with green base. Height 15 cm, width 12 cm, depth 13 cm, weight 200 g

BS 31 · SPINAL CORD WITH VERTEBRAL CANAL
Seen from the ventral side, natural size, made from SOMSO®-Plast. The model shows the brain stem and the spinal cord, as well as the nerve branches up to the coccygeal plexus. On the left side, the sympathetic trunk with its connections to the central nervous system is shown. Cannot be disassembled. On a green base. Height 90 cm, width 32 cm, depth 19 cm, weight 5.5 kg

BS 32/37 · SPINAL CORD IN SPINAL CANAL
Enlarged approximately 5 times. Section through the spinal cord enlarged approximately 10 times, made from SOMSO®-Plast. Cannot be disassembled. Mounted on green base, with removable dust cover. Height 18.5 cm, width 32 cm, depth 9 cm, weight 600 g
**CS 2/2 · Orbital Cavity with Eyeball**
Enlarged approximately 3 times, made from SOMSO®-Plast. Separates into 9 parts. On a green base. Height 21 cm, width 20 cm, depth 32 cm, weight 1.4 kg

**CS 5 · Eyeball**
Enlarged approximately 4 times, made from SOMSO®-Plast. Separates into 6 parts: choroid membrane (2), sclera (2), vitreous body, lens. On a green base. Height 18 cm, width 12 cm, depth 12 cm, weight 400 g

**CS 1 · Eyeball**
Enlarged approximately 5 times, made from SOMSO®-Plast. Separates into 7 parts. On a green base. Height 21 cm, width 18 cm, depth 18 cm, weight 1.2 kg

**CS 8/1 · Topography of the Orbit**
Enlarged approximately 5 times, made from SOMSO®-Plast. The orbital process of the frontal bone and the small wing of the sphenoid bone have been removed in order to allow a view of the bony orbital cavity. The six muscles of the eye are modelled very clearly. All important nerves and blood vessels are represented. With lacrimal apparatus and the supporting apparatus of the eyelids. Separates into 9 parts in total. On a green base. Height 32 cm, width 45 cm, depth 37 cm, weight 5.5 kg

**CS 21/1 · Right Half of the Eye on a Base**
Enlarged approximately 6 times, made from SOMSO®-Plast. Cannot be disassembled. Height 18 cm, width 21 cm, depth 18.5 cm, weight 900 g

**CS 13 · Eyeball**
Enlarged approximately 4 times, made from SOMSO®-Plast. The anatomy of the eyeball in different sectional levels is clearly demonstrated in this model (cannot be disassembled). On a stand with green base. Height 21 cm, width 12 cm, depth 12 cm, weight 200 g
DS 10 · SECTION THROUGH THE CENTRAL SPIRAL OF THE COCHLEA
Enlarged approximately 350 times, made from SOMSO®-Plast. The scala vestibuli, the scala tympani, the cochlear duct with tectorial membrane, and the organ of Corti are shown. Cannot be disassembled. On a green base. Height 51 cm, width 48 cm, depth 5 cm, weight 3.8 kg

QS 69 · THE THREE AUDITORY OSSICLES
Natural size, made from SOMSO®-Plast. Malleus, incus, and stapes mounted under Plexiglas cover, removable from green base. Height 3 cm, width 12 cm, depth 12 cm, weight 80 g

DS 13 · LABYRINTH
Enlarged approximately 18 times, made from SOMSO®-Plast. The superior semicircular canal and vestibule are open, showing the saccule and utricle. The cochlea separates longitudinally. 2 parts in total. On a stand with green base. Height 33 cm, width 24 cm, depth 18 cm, weight 800 g

DS 3 · EAR
Enlarged approximately 3 times, made from SOMSO®-Plast. Tympanic membrane with malleus and incus as well as labyrinth with stapes can be removed. 3 parts in total. On a green base. Height 21 cm, width 32 cm, depth 19 cm, weight 1.2 kg

DS 5 · EAR
Enlarged approximately 3 times, made from SOMSO®-Plast. Separates into 6 parts. On a green base. Height 21 cm, width 32 cm, depth 19 cm, weight 1.5 kg

DS 1 · EAR WITH PINNA
Enlarged approximately 4 times, made from SOMSO®-Plast. Separates into pinna, petrous bone (3), tympanic membrane, labyrinth (2), Eustachian tube. 8 parts in total. On a stand with green base. Height 41 cm, width 44 cm, depth 26 cm, weight 3.7 kg

SOMSO® MODELS MAKE THE MIRACLE OF THE ORGAN OF HEARING AND BALANCE EASY TO UNDERSTAND.
**ES 1 · SET OF TEETH OF AN ADULT**
Natural size, made from SOMSO®-Plast. Consisting of 32 artificial teeth in a transparent box that can be opened. Height 4 cm, width 13 cm, depth 9 cm, weight 100 g

**ES 4/1 · LOWER JAW OF AN 18-YEAR-OLD**
Enlarged approximately 3 times, made from SOMSO®-Plast. 6 parts in total. On a stand with green base. Height 34 cm, width 34 cm, depth 18 cm, weight 1.6 kg

**ES 11 · FIVE MODELS OF TEETH**
Enlarged approximately 8 times; each model mounted on a stand with green base, made from SOMSO®-Plast. Weight 2.2 kg
As individual models:
- ES 11/1 - LOWER INCISOR
- ES 11/2 - LOWER CANINE
- ES 11/3 - LOWER MOLAR WITH ONE ROOT
- ES 11/4 - LOWER MOLAR WITH TWO ROOTS
- ES 11/5 - FIRST UPPER MOLAR WITH THREE ROOTS

**ES 22 · MODEL OF A SET OF TEETH**
Enlarged approximately 3 times, with large toothbrush to demonstrate tooth brushing, made from SOMSO®-Plast. After an original at the Bundeszentrale für gesundheitliche Aufklärung (Federal Centre for Health Education) in Cologne. Height 14 cm, width 19 cm, depth 25 cm, weight 1.3 kg

**ES 14 · DEVELOPMENT OF A SET OF TEETH**
Natural size, made from SOMSO®-Plast. Representation of halves of the jaw, cannot be disassembled. On a stand with green base. Height 24 cm, width 33 cm, depth 11 cm, weight 700 g

**ES 8 · MOLAR TOOTH WITH CARIES**
Enlarged approximately 8 times, made from SOMSO®-Plast. Separates into 3 parts. Showing dental caries in initial and advanced stages. On a stand with green base. Height 24 cm, width 12 cm, depth 12 cm, weight 400 g

**FS 4 · MEDIAN SECTION OF THE CAVITIES OF NOSE, MOUTH AND THROAT**
Enlarged approximately 2 times, made from SOMSO®-Plast. The larynx can be disassembled, the epiglottis is elastic and movable. The crossing of the windpipe and the oesophagus can be easily demonstrated. Separates into 2 parts, on a green base. Height 40 cm, width 28 cm, depth 9 cm, weight 1.6 kg

**FS 8 · TONGUE**
Natural size, made from SOMSO®-Plast. Median section with one part of the lower jaw removable. Separates into 3 parts. On a stand with green base. Height 14 cm, width 12 cm, depth 12 cm, weight 300 g

SOMSO® offers didactically valuable combinations for nose, tongue, teeth, and larynx.
GS 4 ·
LARYNX WITH TONGUE
Natural size, made from SOMSO®-Plast. Separates into 5 parts. On a green base. Height 21 cm, width 12 cm, depth 15 cm, weight 500 g

GS 4/2 ·
LARYNX WITH TRACHEA
Natural size, made from SOMSO®-Plast. Separates into 2 parts in total. On a stand with green base. Height 39 cm, width 20 cm, depth 18 cm, weight 700 g

GS 6 ·
CARTILAGES OF THE LARYNX
Functional model, enlarged approximately 2.5 times, made from SOMSO®-Plast. Arytenoid cartilage, vocal folds and epiglottis are flexibly mounted. Cannot be disassembled. On a green base. Height 28 cm, width 12 cm, depth 14 cm, weight 700 g

GS 10 ·
FUNCTIONAL MODEL OF THE LARYNX
Enlarged approximately 3 times, made from SOMSO®-Plast. The opening and closing of the glottis, the variation in tension of the vocal chord and the change of position can be demonstrated in an intuitively accessible way. This model can not be disassembled. On a green base. Height 33 cm, width 18 cm, depth 18 cm, weight 1.5 kg

GS 7 ·
LARYNX
Enlarged approximately 2 times, made from SOMSO®-Plast. Separates into 2 halves medially. Removable parts are: right thyroid cartilage, cricothyroid muscle and thyrohyoid muscle. The inner and outer laryngeal muscles, the relief of mucous membrane, artery and nerve supply and the cartilaginous skeleton can be demonstrated. Separates into 5 parts in total. On a stand with green base. Height 22 cm, width 12 cm, depth 12 cm, weight 700 g

AND ANATOMICALLY UNDERSTANDABLE MODEL
JAW AND LARYNX.
HS 1 · HEART
Enlarged approximately 2 times, made from SOMSO®-Plast. Separates into 3 parts, on a green base that represents the dome of the diaphragm with the outline of the pericardium. Height 33 cm, width 24 cm, depth 26 cm, weight 2.8 kg

HS 4 · HEART
Natural size, made from SOMSO®-Plast. Separates into 2 parts. On a stand with green base. Height 27 cm, width 12 cm, depth 14 cm, weight 600 g

HS 7 · LUNGS WITH HEART, DIAPHRAGM, AND LARYNX
3/4 natural size, made from SOMSO®-Plast. Separates into 7 parts in total. On a green base. Height 39 cm, width 28 cm, depth 12 cm, weight 2.3 kg

HS 5 · HEART
Enlarged approximately 1.5 times, made from SOMSO®-Plast. Separates into 4 parts. On a stand with green base. Height 32 cm, width 18 cm, depth 19 cm, weight 1 kg
Training future health professionals presents universities with challenges that can be solved in part with SOMSO® Models. SOMSO® Models are manufactured for many disciplines, offering valuable assistance in teaching. The functional models play a special role, as they facilitate realistic exercises and diagnoses. Key factors for the use of SOMSO® Models in medicine are the true-to-life representation, scientific accuracy, and realistic handling of the models.
JS 5 · LIVER
Natural size, made from SOMSO®-Plast. Showing the four lobes of the liver, the beginnings of the peritoneum, the gall bladder and vessels. Cannot be disassembled. On a stand with green base. Height 27 cm, width 19 cm, depth 18 cm, weight 700 g

JS 11 · PANCREAS WITH SPLEEN AND DUODENUM
Natural size, made from SOMSO®-Plast. Cannot be disassembled. On a stand with green base. Height 23 cm, width 22 cm, depth 12 cm, weight 300 g

JS 2/1 · DIGESTIVE SYSTEM
Natural size, relief model, partly opened up, made from SOMSO®-Plast. showing the alimentary canal from the mouth to the rectum. Separates into 2 parts. On a green base. Height 91 cm, width 32 cm, depth 12 cm, weight 4.7 kg

JS 4 · STOMACH
Natural size, made from SOMSO®-Plast. Separates into 2 parts, on a stand with green base. Height 34 cm, width 19 cm, depth 18 cm, weight 800 g

JS 14 · INTERNAL SURFACE OF THE JEJUNUM
Enlarged approximately 400 times, made from SOMSO®-Plast. After Prof. Dr. E. Wüstenfeld, model made by E. Rack, Anatomical Institute, Würzburg. The digitiform protrusions represent villi, the indentations show crypts. A cut surface reveals the histological structure of a villus. Cannot be disassembled. On a green base. Height 17 cm, width 18 cm, depth 18 cm, weight 600 g

KS 1 · SECTION OF SKIN
Enlarged approximately 70 times, made from SOMSO®-Plast. The layers of the skin can be separated to form terraces, showing the follicle and root of the hair (three-dimensional and in section), the sweat gland and the sensory organs of the skin. Separates into 4 parts. On a green base. Height 27 cm, width 33 cm, depth 15 cm, weight 1.8 kg

KS 3 · BLOCK MODEL OF SECTIONAL OF SKIN
Enlarged approximately 70 times, made from SOMSO®-Plast. The model shows: a) scalp with hair, b) skin of the axilla, c) the hairless skin of the sole of the foot. Cannot be disassembled. On a green base. Height 25 cm, width 47 cm, depth 15 cm, weight 2.2 kg

KS 4 · BLOCK MODEL OF THE SKIN
Enlarged approximately 70 times, made from SOMSO®-Plast. Showing the scalp with hair in different sectional planes. Cannot be disassembled. On a green base. Height 21 cm, width 20 cm, depth 11 cm, weight 1.3 kg

SOMSO® MODELS BRING HISTOLOGY INTO THE THIRD DIMENSION.
**Anatomy**

**Urinary Organs**

**Genital Organs**

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**LS 1 · Right Kidney and Adrenal Gland**

Natural size, made from SOMSO®-Plast. Kidney separates into 2 halves longitudinally. On a stand with green base. Height 26 cm, width 12 cm, depth 12 cm, weight 400 g

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**LS 4 · Right Kidney**

Enlarged approximately 3 times, made from SOMSO®-Plast. Frontal section seen from behind. Cannot be disassembled. On a green base. Height 32 cm, width 26 cm, depth 7 cm, weight 1 kg

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**LS 6 · Nephron**

Enlarged approximately 120 times, made from SOMSO®-Plast. Cannot be disassembled. On a green base. Height 32 cm, width 26 cm, depth 4 cm, weight 700 g

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**LS 7 · Glomerulus**

Also called Malpighian corpuscle, enlarged approximately 700 times, made from SOMSO®-Plast. Cannot be disassembled. On a green base. Height 32 cm, width 18.5 cm, depth 8 cm, weight 800 g

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**LS 9 · Kidney, Nephron, and Glomerulus**

Combination of models LS 4, LS 6 and LS 7, on a green base. Cannot be disassembled. Made from SOMSO®-Plast. Height 30 cm, width 65 cm, depth 9 cm, weight 3 kg

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**MS 1 · Median Section of the Female Pelvis**

Natural size, made from SOMSO®-Plast. Separates into 2 parts. On a green base. Height 33 cm, width 27 cm, depth 12 cm, weight 1.5 kg

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**MS 5/1 · Female Genital Organs**

Natural size, made from SOMSO®-Plast. 4 parts in total. On a stand with green base. Height 16 cm, width 18 cm, depth 18 cm, weight 900 g

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**MS 3/1 · Male Genital Organs**

Natural size, made from SOMSO®-Plast. 4 parts in total. On a stand with green base. Height 18 cm, width 18 cm, depth 18 cm, weight 800 g

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**MS 3/2 · Model of the Male Sexual Organs**

Natural size, made from SOMSO®-Plast. Developed in co-operation with Angelika Beck, deputy head teacher. Height 27 cm, width 36 cm, depth 24 cm, weight 2.8 kg

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**MS 5/2 · Model of the Female Sexual Organs**

Natural size, made from SOMSO®-Plast. Developed in co-operation with Angelika Beck, deputy head teacher. Height 23 cm, width 49 cm, depth 26 cm, and weight 2.5 kg

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**MS 3/1**

Partly disassembled

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**MS 2 · Median Section of the Male Pelvis**

Natural size, made from SOMSO®-Plast. 4 parts in total. On a green base. Height 33 cm, width 27 cm, depth 14 cm, weight 1.3 kg

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**MS 2**

Partly disassembled
MS 11 · EMBRYO
Enlarged approximately 25 times, made from SOMSO®-Plast. The model shows an approximately 4-week-old embryo. Cannot be disassembled. On a stand with green base. Height 25 cm, width 14 cm, depth 12 cm, weight 300 g

MS 12 · SERIES SHOWING PREGNANCY
Natural size, made from SOMSO®-Plast. 8 uterus representations with embryos and foetuses from 1st to 7th month of pregnancy. 14 parts in total. Each model on an individual stand with green base. Total weight of the series 3.5 kg

MS 15 · FERTILISATION AND DEVELOPMENT OF THE HUMAN OVUM UP TO THE 3RD MONTH
Represented on 16 individual models, made from SOMSO®-Plast. Collection in a display case with removable Plexiglas cover. Height 49 cm, width 57 cm, depth 11 cm, weight 5.7 kg

MS 16 · FETAL CIRCULATORY SYSTEM
Natural size, made from SOMSO®-Plast. Represented on a female foetus (before birth) with umbilical cord and placenta. The thoracic and abdominal cavities as well as the heart are opened. The ductus venosus and the ductus arteriosus are shown. Separates into 2 parts. On a green base. Height 48 cm, width 30 cm, depth 14 cm, weight 2.8 kg

MS 13 · PELVIS WITH UTERUS IN NINTH MONTH OF PREGNANCY
Natural size, made from SOMSO®-Plast. The model shows the right half of the female pelvis in median section. Foetus can be removed. 2 parts in total, on a green base. Height 41 cm, width 39 cm, depth 29 cm, weight 4.9 kg

MS 51 · RELIEF MODEL OF THE OVARY
Enlarged approximately 10 times, made from SOMSO®-Plast. Plastic representation of the follicle in different stages of maturity, of the corpus rubrum, luteum, and albicans. Cannot be disassembled. On a green base. Height 28 cm, width 40 cm, depth 8 cm, weight 1.8 kg

The stages of series MS 12 are also available individually.
1. Different eye colours are available for the SOMSO® nursing babies MS 52 and MS 53 as a special version.

2. Models MS 52 and MS 53 are available with their mouth open or closed.

3. They come with a lifelike auditory canal for ear care.

4. Models MS 52, MS 53, MS 57, MS 58, MS 59, MS 60 and MS 61 have soft and moveable arms and legs.

5. For all further enquiries, each baby has its own SOMSO® identification number.

MS 33/E · DOLL FOR BABY CARE
Made from SOMSO®-Plast. Ball joints allow natural movement of the head, arms, and legs; with anus. Suitable for bathing, changing nappies, and practising holding. With brown artificial eyes. Unclothed. Head circumference 36 cm, length 49 cm, weight 3 kg

MS 33/E-B · DOLL FOR BABY CARE
Same specification as MS 33/E, however with dark skin.

MS 52 · NURSING BABY, FEMALE
Corresponding to a 6-week-old baby, made from SOMSO®-Plast. Head circumference 35.8 cm, length 54 cm, weight 3.3 kg

MS 53/B · NURSING BABY, MALE
Same specification as MS 52, but male and with dark skin, made from SOMSO®-Plast. Head circumference 35.4 cm, length 54 cm, weight 3.5 kg

MS 58 · NEWBORN BABY, MALE
Made from soft SOMSO®-Plast. With ball joints; head moves easily and tilts backwards. With open mouth, umbilical cord and anus. Suitable for bathing, changing nappies and practising holding. Unclothed. Head circumference 34 cm, length 46 cm, weight 2.2 kg

RELEVANT BABY CARE TRAINING WITH SOMSO® BABY MODELS.
Teaching Baby, Newborn Baby, Nursing Baby, Baby Nursing Doll, Nursing Care Baby
1: Age-appropriate size and weight
2: Natural movement of joints and head
3: Eyes and hair painted by hand
4: Robust joints for frequent use
5: Waterproof finish
6: 5-year warranty
**NS 55 · FUNCTIONAL MODEL OF THE HAND AND FINGER JOINTS**
Natural size, made from SOMSO®-Plast. Cannot be disassembled. On a stand with green base (removable). Height 36 cm, width 18 cm, depth 19 cm, weight 400 g

**NS 52 · FUNCTIONAL MODEL OF THE ELBOW JOINT**
Natural size, made from SOMSO®-Plast. Cannot be disassembled. On a removable stand with green base. Height 41 cm, width 19 cm, depth 22 cm, weight 650 g

**NS 53 · FUNCTIONAL MODEL OF THE SHOULDER JOINT**
Natural size, made from SOMSO®-Plast. Cannot be disassembled. On a removable stand with green base. Height 26 cm, width 19 cm, depth 22 cm, weight 650 g

**NS 13 · MUSCLES OF THE HAND WITH BASE OF THE FORE-ARM**
Natural size, made from SOMSO®-Plast. Showing the blood vessels and nerves as well as the ligamentous apparatus. Separates into 5 parts in total. On a stand with green base. Height 34 cm, width 14 cm, depth 12 cm, weight 500 g

**NS 43 · SECTION THROUGH THE KNEE JOINT**
(illustration see page 18)

**NS 44 · SECTION THROUGH THE HIP JOINT**
(illustration see page 19)

**NS 45 · SECTION THROUGH THE HAND**
(illustration see page 19)

**NS 21/1 · JOINTS OF HAND AND FINGERS WITH LIGAMENTS**
Natural size, made from SOMSO®-Plast. Cannot be disassembled. On a stand with green base (removable). Height 34 cm, width 18 cm, depth 18 cm, weight 650 g

**NS 18 · ELBOW JOINT**
Natural size, made from SOMSO®-Plast. Cannot be disassembled. On a stand with green base. Height 21 cm, width 13 cm, depth 12 cm, weight 200 g

**NS 17 · SHOULDER JOINT**
Natural size, made from SOMSO®-Plast. Cannot be disassembled. On a stand with green base. Height 23 cm, width 19 cm, depth 19 cm, weight 500 g

Sectional views of joints from series NS 43 - NS 48, made from SOMSO®-Plast. Bone sections modelled true to nature with topography of muscles, ligaments, vessels and nerves. Each with explanation on a green base. Under removable transparent cover.
NS 20 · HIP JOINT
Natural size, made from SOMSO®-Plast. Cannot be disassembled. On a green base. Height 28 cm, width 18 cm, depth 18 cm, weight 600 g

NS 19 · KNEE JOINT
Natural size, made from SOMSO®-Plast. Cannot be disassembled. On a green base. Height 24 cm, width 12 cm, depth 14 cm, weight 300 g

NS 10 · MUSCLES OF THE LEG WITH BASE OF THE PELVIS
Slightly smaller than natural size, made from SOMSO®-Plast. Separates into 10 parts. On a stand with green base, can be rotated. Height 108 cm, width 39 cm, depth 26 cm, weight 5 kg

NS 21 · ANKLE JOINTS WITH LIGAMENTS
Natural size, made from SOMSO®-Plast. Consisting of the bones of the foot and the lower part of the lower leg with ligamentous apparatus. Cannot be disassembled, on a stand with green base. Height 38 cm, width 18 cm, depth 18 cm, weight 400 g

NS 1 · NORMAL FOOT
Natural size, made from SOMSO®-Plast. Cannot be disassembled. Height 13 cm, width 26 cm, depth 10 cm, weight 450 g

NS 51 · FUNCTIONAL MODEL OF THE HIP JOINT
Natural size, made from SOMSO®-Plast. Cannot be disassembled. On a stand with green base (removable). Height 35 cm, width 20 cm, depth 18 cm, weight 1.25 kg

NS 50 · FUNCTIONAL MODEL OF THE KNEE JOINT
Natural size, made from SOMSO®-Plast. Cannot be disassembled. On a green base (removable). Height 34 cm, width 18 cm, depth 18 cm, weight 1 kg

NS 54 · FUNCTIONAL MODEL OF THE JOINTS OF THE FOOT
Natural size, made from SOMSO®-Plast. Cannot be disassembled. On a stand with green base (removable). Height 25 cm, width 28 cm, depth 18 cm, weight 900 g

NS 9 · MUSCLES OF THE FOOT
Natural size, made from SOMSO®-Plast. Showing the nerve and vascular supply. The layers of the muscles of the sole of the foot are removable (flexor digitorum brevis muscle, quadratus plantae muscle, extensor digitorum longus muscle, tendon calcaneus (Achilles tendon), abductor digiti minimi muscle, flexor hallucis brevis muscle, adductor hallucis muscle (oblique head), and abductor hallucis muscle). The ligamentous apparatus is shown. 9 parts in total. On a stand with green base. Height 18 cm, width 3 cm, depth 18 cm, weight 1.1 kg

NS 2 · FLAT FOOT
Natural size, made from SOMSO®-Plast. Cannot be disassembled. Height 13 cm, width 26 cm, depth 9 cm, weight 450 g
Interesting facts about SOMSO® skeletons:
- Size and dimensions comply with the Central European average
- Robust stand on five castors
- Availability of spare parts guaranteed even after years

Maximum cranial circumference:
♀ 50.8 cm  ♂ 51.2 cm

Cranial width (Euryon distance):
♀ 12.8 cm  ♂ 14.1 cm

Foot skeleton length (Pternion-Acropodion):
♀ 22.2 cm  ♂ 25 cm

Hand skeleton length (Stylion-Dactylion III):
♀ 18 cm  ♂ 19 cm.

SOMSO® offers a comprehensive range of Artificial Bone Models. If you would like details of these models please ask for the Catalogue A 79/4

A NATOMY
ARTIFICIAL BONE MODELS

QS 3/3 · ARTIFICIAL SKULL OF A FETUS
Natural cast, made from SOMSO®-Plast. Cannot be disassembled. Length 10.5 cm, width 8.5 cm, circumference 29.7 cm, weight 130 g

QS 3/E · ARTIFICIAL SKULL OF A NEWBORN
Natural cast, made from SOMSO®-Plast, 2 parts. Weight 170 g

QS 3/2-E · ARTIFICIAL SKULL OF CHILD (ABOUT 6-YEARS OLD)
Natural cast, made from SOMSO®-Plast. 2 parts in total. Weight 380 g

QS 1 · ARTIFICIAL HUMAN SKULL
Natural cast, made from SOMSO®-Plast. With closed cranium, movable lower jaw. Separates into 2 parts. Weight 700 g

QS 7/E · ARTIFICIAL HUMAN SKULL
Natural cast, made from SOMSO®-Plast, cranium can be removed, movable lower jaw, separates into 3 parts. Weight 800 g

QS 7 · ARTIFICIAL HUMAN SKULL
Male, natural cast, made from SOMSO®-Plast, cranium can be removed, movable lower jaw, separates into 3 parts. Weight 800 g

QS 7/1 · ARTIFICIAL HUMAN SKULL (DETAIL-ILLUSTRATION)
Natural cast, made from SOMSO®-Plast. Same specification as QS 7, but with numbering, separates into 3 parts. Weight 800 g

QS 10/1 · ARTIFICIAL HUMAN SKELETON
Natural cast of a male adult skeleton, made from SOMSO®-Plast. Mounted on stand with castors, with dust cover. Height 180 cm (skeleton 170 cm), width 55 cm, depth 55 cm, weight 10.4 kg

Maximum cranium circumference:
♀ 50.8 cm  ♂ 51.2 cm

Cranial length (Glabella Ophistocranion line):
♀ 18.3 cm  ♂ 17.3 cm

Cranial width (Euryon distance):
♀ 12.8 cm  ♂ 14.1 cm

Hand skeleton length (Stylion-Dactylion III):
♀ 18 cm  ♂ 19 cm.

Foot skeleton length (Pternion-Acropodion):
♀ 22.2 cm  ♂ 25 cm

Hand skeleton length (Stylion-Dactylion III):
♀ 18 cm  ♂ 19 cm.

Foot skeleton length (Pternion-Acropodion):
♀ 22.2 cm  ♂ 25 cm
QS 9 · ARTIFICIAL BAUCHENE SKULL OF AN ADULT
Natural size, made from SOMSO®-Plast. Separates into 16 parts. On a stand with green base. Height 40 cm, width 26 cm, depth 39 cm, weight 1.9 kg

QS 8/53 · ARTIFICIAL TEMPORAL BONE
Natural cast, made from SOMSO®-Plast. The opened tympanic cavity shows the tympanic membrane, the three auditory ossicles, the cochlea, and the semicircular canals. Separates into 2 parts. On a stand with green base. Weight 800 g

QS 8/3 · 14-PART COLOURED MODEL OF THE HUMAN SKULL
Natural size, made from SOMSO®-Plast. After Prof. Dr. med. Dr. med. h.c. J. W. Rohen, Anatomical Institute of the University of Erlangen. Weight 700 g

QS 10/E · ARTIFICIAL HUMAN SKELETON
Natural cast of a male adult skeleton, made from SOMSO®-Plast. Simplified mounting. Mounted on stand with castors, with dust cover. Height 179 cm (skeleton 170 cm), width 55 cm, depth 55 cm, weight 10 kg

QS 10/6 · ARTIFICIAL HUMAN SKELETON
As QS 10/1 (on page 20) but showing the ligaments on the knee, the hip, the elbow, and on the shoulder. Weight 11.2 kg

QS 10/8 · ARTIFICIAL HUMAN SKELETON
Natural cast of a female adult skeleton, made from SOMSO®-Plast. Mounted on stand with castors, with dust cover. Height 181 cm (skeleton 171 cm), width 55 cm, depth 55 cm, weight 10.7 kg

QS 10/9 · ARTIFICIAL HUMAN SKELETON
As QS 10/1 (on page 20) but the points of origin and attachment of the most important muscles from head to toe are marked in colour on the right side of the body. The individual bones are numbered on the left half. Weight 10.4 kg
**QS 23 · SKELETON OF THE FOOT (FLEXIBLE MOUNTING)**
Natural size, made from SOMSO®-Plast. With distal ends of tibia and fibula. Flexibly mounted to show the change in position of the bones with a spread or flat foot. With numbering. Weight 440 g

**QS 31/7 · HAND SKELETON WITH FOREARM CONNECTION (FLEXIBLE MOUNTING)**
Natural size, made from SOMSO®-Plast. Flexibly mounted, to show the change in position of the bones of the hand. With numbering. Weight 165 g

**QS 54 · COLLECTION CASE VERTEBRAE AND SPINAL CORD**
Natural size, made from SOMSO®-Plast. Comprising: 1. Cervical vertebra with spinal cord and nerve endings, with explanation, 2. Cervical vertebra, 3. Thoracic vertebra, 4. Atlas, 5. Axis, 6. Lumbar vertebra, 7. Intervertebral disc. In a transparent, protective box with compartments, can be removed from the green base. Height 7 cm, width 32 cm, depth 18.5 cm, weight 800 g

**QS 21/3 · VERTEBRAL COLUMN WITH PELVIS**
Natural size, made from SOMSO®-Plast. Flexibly mounted, showing the arteria vertebralis, the spinal cord, the exiting spinal nerves, and the appendant ganglia. Comprising occipital bone; cervical, thoracic, and lumbar vertebrae; sacral bone and coccyx; iliac wings. The spinal cord is inside the vertebral canal as a flexible tube. Ideally suited for the demonstration of healthy and pathological spinal curvature. With stand for hanging. Weight 3.6 kg

**QS 68/3 · CENTRAL AND DORSOLATERAL HERNIA OF INTER-VERTEBRAL DISC**
Natural size, made from SOMSO®-Plast. Separates into 5 parts, intervertebral discs can be replaced. On a transparent base. Height 13 cm, width 14 cm, depth 15 cm, weight 300 g

**QS 55 · MOVEMENTS OF MUSCLES IN THE UPPER ARM**
Natural size, made from SOMSO®-Plast. Flexibly mounted. Schematic representation of the upper arm muscle. Made from flexible material. Without stand and base. Weight 740 g

**QS 61 · CONSTRUCTION OF BONE**
Enlarged many times, made from SOMSO®-Plast. Shown in a wedge segment from the compact part of a hollow bone. Cannot be disassembled. On a green base. Height 28 cm, width 39 cm, depth 26 cm, weight 2.82 kg

**QS 55/2 · MOVEMENT OF MUSCLES IN THE UPPER ARM AND FOREARM**
Natural size, made from SOMSO®-Plast. Showing the flexor and extensor of the upper arm as well as the rotator muscles of the forearm. On a stand with green base. Height 83 cm, width 45 cm, depth 26 cm, weight 2 kg

SOMSO® vertebral columns can be used to demonstrate strain caused by incorrect posture:
1. Normal back
2. Flat back
3. Hollow round back
4. Round back
S 1 · RECONSTRUCTION OF A SKULL OF PROANTHROPUS BOISEI
Age: approx. 1.8 million years, lower Pleistocene. 2 parts. Weight 870 g

S 2 · RECONSTRUCTION OF A SKULL OF HOMO ERECTUS
Age: approx. 1 million years, upper Pliocene. Separates into 2 parts. Weight 750 g

S 2/3733 · RECONSTRUCTION OF A SKULL OF HOMO ERGASTER (KNM-ER 3733)
Age: approx. 1.8 million years, upper Pliocene. 2 parts. Weight 950 g

S 2/F · RECONSTRUCTION OF A THIGH OF HOMO ERECTUS (TRINIL 3)
Age: approx. 800,000 years, lower-mid Pliocene. Cannot be disassembled. Weight 570 g

S 3 · RECONSTRUCTION OF A SKULL OF HOMO NEANDERTHALENSIS
Age: approx. 40,000 to 70,000 years, middle-upper Pleistocene (Würm glacial stage). 2 parts. Weight 850 g

S 3/F · RECONSTRUCTION OF A THIGH OF HOMO NEANDERTHALENSIS
Age: approx. 40,000 - 50,000 years. Cannot be disassembled. Weight 700 g

S 4 · RECONSTRUCTION OF A SKULL OF HOMO SAPIENS
Age: upper upper Pleistocene, approx. 25,000 years. 2 parts. Weight 830 g

S 4 · RECONSTRUCTION OF A SKULL OF HOMO SAPIENS
Age: upper upper Pleistocene, approx. 25,000 years. 2 parts. Weight 830 g

S 5 · RECONSTRUCTION OF A SKULL OF A USTRALOPITHECUS AFRICANUS
Age: approx. 2.3 to 2.8 million years, lower Pliocene. 2 parts. Weight 540 g

S 5/1 · RECONSTRUCTION OF A SKULL OF PROCONSUL AFRICANUS
Age: approx. 20 million years, early Miocene. 2 parts. Weight 210 g

S 5/STs14 · RECONSTRUCTION OF A PELVIS OF A USTRALOPITHECUS AFRICANUS
Age: approx. 2.2 - 2.8 million years. Cannot be disassembled. Weight 560 g

S 6 · LOWER JAW FROM MAUER NEAR HEIDELBERG, HOMO HEIDELBERGENSIS
Age: approx. 500,000 to 600,000 years, middle Pleistocene. Cannot be disassembled, with a green base. Weight 510 g

S 7 · RECONSTRUCTION OF A SKULL OF A USTRALOPITHECUS AFARENSIS
Age: 3.6 - 3.0 million years, upper Pliocene, 2 parts. Weight 620 g

S 8 · RECONSTRUCTION OF A SKULL OF HOMO RUDOLFENSIS
Age: approx. 2.5 - 1.9 million years, upper Pliocene. 2 parts. Weight 760 g

S 10 · RECONSTRUCTION OF A SKULL OF PARANTHROPUS AETHIOPICUS
Age: approx. 2.6 to 2.3 million years. Cannot be disassembled, with a green base. Weight 1,2 kg

S 11 · SKULL OF THE STEINHEIM PREHISTORIC MAN, HOMO STEINHEIMENSIS
Age: approx. 250,000 years. Cannot be disassembled. Weight 530 g
**INTRODUCTION TO ZOOLOGY:**

Vertebrates

Invertebrates

Development of Animals

Animal Cell, Genetics

Comparative Anatomy

Realistic Animal Models

SOMSO® Zoology Models are categorized mainly by system.

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**ZO S 27 · DOMESTIC CAT MODEL**

Natural size, made from SOMSO®-Plast. The right half shows the skin and the internal view shows the section of the head as well as the three large body cavities. The superficial skeletal muscles are displayed on the left half of the body. Separates into two halves medially. The following visceral organs can be removed: lung, heart, liver, stomach, small intestine with spleen, large intestine with kidney and the female sexual organs. Separates into 8 parts in total. On a green pull-out base. Height 43 cm, width 52 cm, depth 21 cm, weight 5.2 kg

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**ZO S 109/1 · MODEL OF A FEMALE GERMAN SHEPHERD DOG**

2/3 natural size, made from SOMSO®-Plast. The right side shows the skeletal system and the left half of the model shows the muscles. 11 parts, which can be disassembled as follows: half of the skull with vertebral column, thorax and iliac wing, tail, front leg, hind leg, right lung, heart, stomach, liver with right kidney, small intestine with duodenum and pancreas, large intestine with the female sexual organs, on a green base. Height 66 cm, width 80 cm, depth 25 cm, weight 10 kg
ZoS 26 · DOMESTIC HEN
Natural size, made from SOMSO®-Plast. 5 parts, which can be disassembled as follows: body, topography of the muscles, lung, liver and stomach. On a green base with stand. Height 49 cm, width 45 cm, depth 26 cm, weight 2.4 kg.

ZoS 17 · COW HOOF
Natural size, made from SOMSO®-Plast. Cast of a natural, prepared left front cow hoof. Separates into 6 parts. On a green base. Height 34 cm, width 14 cm, depth 30 cm, weight 1.3 kg.

ZoS 6/1 · RUMINANT STOMACH OF THE COW
1/3 natural size, made from SOMSO®-Plast. Rumen and reticulum separate into 2 halves vertically and show the relief of the stomach lining; omasum and abomasum can be opened. Separates into 3 parts. On a stand with green base. Height 35 cm, width 28 cm, depth 18 cm, weight 1.7 kg.

ZoS 105 · ANATOMY OF A BONY FISH
Taking the carp, Cyprinus carpio, as an example. Natural size, made from SOMSO®-Plast. Separates into 4 parts. On a stand with green base. Height 35 cm, width 49 cm, depth 15 cm, weight 1.6 kg.

ZoS 115 · ANATOMY OF THE HEAD OF A SNAKE
European Adder, Vipera b. berus (Liné). Scale: 15:1, made from SOMSO®-Plast. After Christian Groß, Director of Studies. Cannot be disassembled, on a stand with green base. Height 39 cm, width 49 cm, depth 26 cm, weight 1.7 kg.

ZoS 100 · POND FROG
Pelophylax kl. esculentus (synonym: Rana kl. esculenta). After Christian Groß, Director of Studies. Scale: 4:1, made from SOMSO®-Plast. Separates into 3 parts. On a green base. Height 39 cm, width 62 cm, depth 12 cm, weight 3.9 kg.

If you are interested in the complete programme of zoological models, please request catalogue A 75/2+3.
INVERTEBRATES - selection of representatives of the following simplified animal phylum classification, in descending level of order:

**ECHINODERMS**

**MOLLUSCS**

**ARTHROPODS**

**WORMS**

**COELENTERATES**

**PROTOZOAANS**

**MOLLUSCS**

**Zo 119 · Swan Mussel**
Anodonta cygnea, anatomical overview, right half of shell, of the pallium, and the gill removed, foot opened at the right side. Scale: 4:1, made from SOMSO®-Plast. After Christian Groß, Director of Studies. On a green base. Separates into 7 parts. Height 21 cm, width 61 cm, depth 38 cm, weight 7.7 kg

**Zo 121 · Model of a Water Flea**
Daphnia pulex, made from SOMSO®-Plast, after Christian Groß, Director of Studies. Female, with summer eggs. Scale: 200:1. Separates into 6 parts. On a stand with green base. Height 50 cm, width 42.5 cm, depth 35 cm, weight 2.5 kg

**ARTHROPODS / Crustaceans**

**Zo 114 · Common Starfish**
Asterias rubens. Scale approx.: 3:1, made from SOMSO®-Plast. After Christian Groß, Director of Studies. 3 parts in total. On a stand with green base. Height 31 cm, width 53 cm, depth 35 cm, weight 2.2 kg

**Zo 117 · Roman Snail**
Helix pomatia. Scale: 6:1, made from SOMSO®-Plast. After Christian Groß, Director of Studies. From the right, you have a full view of the shell. Viewed from the left, the snail is opened. The portion of the intestinal canal between the retropharynx and the small intestine can be removed, fully revealing the hermaphroditic genital system. Separates into 4 parts. On a green base. Height 28 cm, width 68 cm, depth 45 cm, weight 7.5 kg

**Zo 118 · European Crayfish**
Astacus astacus, body structure and anatomy of a male crayfish. Scale: 3:1, made from SOMSO®-Plast. After Christian Groß, Director of Studies. The realistically designed model shows the differentiated outer extremities on the left side and the internal structure of the crayfish on the right side. Separates into 14 parts. On a stand with green base. Height 28 cm, width 82 cm, depth 29 cm, weight 4 kg

**Zo 119 · Swan Mussel**
Anodonta cygnea, anatomical overview, right half of shell, of the pallium, and the gill removed, foot opened at the right side. Scale: 4:1, made from SOMSO®-Plast. After Christian Groß, Director of Studies. On a green base. Separates into 7 parts. Height 21 cm, width 61 cm, depth 38 cm, weight 7.7 kg

**Zo 121 · Model of a Water Flea**
Daphnia pulex, made from SOMSO®-Plast, after Christian Groß, Director of Studies. Female, with summer eggs. Scale: 200:1. Separates into 6 parts. On a stand with green base. Height 50 cm, width 42.5 cm, depth 35 cm, weight 2.5 kg

**Zo 118 · European Crayfish**
Astacus astacus, body structure and anatomy of a male crayfish. Scale: 3:1, made from SOMSO®-Plast. After Christian Groß, Director of Studies. The realistically designed model shows the differentiated outer extremities on the left side and the internal structure of the crayfish on the right side. Separates into 14 parts. On a stand with green base. Height 28 cm, width 82 cm, depth 29 cm, weight 4 kg

**Zo 119 · Swan Mussel**
Anodonta cygnea, anatomical overview, right half of shell, of the pallium, and the gill removed, foot opened at the right side. Scale: 4:1, made from SOMSO®-Plast. After Christian Groß, Director of Studies. On a green base. Separates into 7 parts. Height 21 cm, width 61 cm, depth 38 cm, weight 7.7 kg

**Zo 121 · Model of a Water Flea**
Daphnia pulex, made from SOMSO®-Plast, after Christian Groß, Director of Studies. Female, with summer eggs. Scale: 200:1. Separates into 6 parts. On a stand with green base. Height 50 cm, width 42.5 cm, depth 35 cm, weight 2.5 kg

**Zo 118 · European Crayfish**
Astacus astacus, body structure and anatomy of a male crayfish. Scale: 3:1, made from SOMSO®-Plast. After Christian Groß, Director of Studies. The realistically designed model shows the differentiated outer extremities on the left side and the internal structure of the crayfish on the right side. Separates into 14 parts. On a stand with green base. Height 28 cm, width 82 cm, depth 29 cm, weight 4 kg
**ARTHROPODS / Arachnids**

ZoS 122 · Tick

Sheep tick, *Ixodes ricinus*, female. Scale: 70:1. Developed in cooperation with Christian Groß, Director of Studies, made from SOMSO®-Plast. The model is 28 cm long, 6 cm high, 23 cm wide, and weighs 0.222 kg. Cannot be disassembled. Under transparent cover on removable green base.

**ARTHROPODS / Insects**

ZoS 47/1 · Model of the Worker Bee

*Apis mellifica*. Scale: 25:1, made from SOMSO®-Plast, after Christian Groß, Director of Studies. 3 parts in total. On a stand with green base. Height 50 cm, width 47 cm, depth 15 cm, weight 1.8 kg

ZoS 47/2 · Model of the Hind Legs of a Bee

Functional model, after Dr. E. Schicha, enlarged many times over, made from SOMSO®-Plast. The model is particularly well suited to illustrate the following functions: brushing off the bee’s body with the combs, collecting the pollen in the corbicula at the outside of the tibia, movable joint between tibia and planta. On a stand with green base. Height 34 cm, width 18 cm, depth 18 cm, weight 1 kg

ZoS 47/3 · Common Housefly

*Musca domestica*. After Dr. E. Schicha, made from SOMSO®-Plast. The enlarged model on a scale of approx. 30:1 is 23 cm long, 22 cm high, 26 cm wide, and weighs 0.5 kg. Separates into 2 parts. On a stand with green base.

ZoS 47/4 · Head of a Fly

*Musca domestica*. Scale: 50:1 after Dr. E. Schicha. Cannot be disassembled. On a stand with green base. Height 27 cm, width 18 cm, depth 20 cm, weight 0.7 kg

ZoS 47/5 · Bark Beetle

Scale: 40:1, made from SOMSO®-Plast. Appraised by Christian Groß, Director of Studies. Enlarged and true-to-detail representation of the typographer’s beetle (eight-toothed spruce bark beetle, *Ips typographus* L.). On a stand with green base. Cannot be disassembled. Height 17 cm, width 32 cm, depth 18 cm, weight 0.8 kg

The world of insects - a series of small insect models which clearly demonstrates comparative morphology and physiology of insects.
**Zoology - Invertebrates**

**ZoS 101/1 · Planktonic Foraminifera**
Globorotalia menardii, original size 0.5 mm in diameter, enlarged approximately 200 times, made from SOMSO®-Plast, on green base. Developed in co-operation with Dr. Barbara Donner, research centre "Ocean Margins" at the University of Bremen. Weight 104 g.

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**ZoS 108 · Common Earthworm**
Lumbricus terrestris. Scale: 25:1, made from SOMSO®-Plast. After Christian Groß, Director of Studies. Cannot be disassembled, on a green base. Height 46 cm, width 39 cm, depth 33 cm, weight 2.1 kg.

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**ZoS 107 · Paramecium**
Paramecium. Scale: 1.600:1, made from SOMSO®-Plast. After Christian Groß, Director of Studies. Separates into 2 parts, on a stand with green base. Height 61 cm, width 39 cm, depth 26 cm, weight 2.7 kg.

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**ZoS 48/3 · Head of a Mosquito**
Culex pipiens, head of a female mosquito. Scale: 80:1. After Dr. E. Schicha, made from SOMSO®-Plast. Cannot be disassembled. On a stand with green base. Height 40 cm, width 18 cm, depth 45 cm, weight 0.8 kg.

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**ZoS 48/5 · Model of a Mosquito**
Common house mosquito, Culex pipiens. Scale: 50:1, made from SOMSO®-Plast. After Dr. E. Schicha. Separates into 3 parts. On green pull-out base to show the internal organs. Height 60 cm, width 75 cm, depth 65 cm, weight 3.1 kg.

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**ZoS 48/3 Dorsal view**

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**ZoS 106 · Freshwater Polyp**
Hydra. Scale: 25:1 and block showing detail in the trunk area, scale: 200:1, made from SOMSO®-Plast. After Christian Groß, Director of Studies. Cannot be disassembled, on a green base. Height 46 cm, width 39 cm, depth 33 cm, weight 2.1 kg.

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**ZoS 48/3 Disassembled**

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**ZoS 107 Disassembled**

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**ZoS 101 · Amoeba**
Amoeba proteus. Scale: 1.000:1, after Prof. Dr. M. Lindauer and Christian Groß, Director of Studies. Made from SOMSO®-Plast. On a green base. Separates into 2 parts. Height 8 cm, width 48 cm, depth 31 cm, weight 1.8 kg.

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**ZoS 101 Disassembled**

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**Worms**

**ZoS 106 · FRESHWATER POLYP**

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**ZoS 107 · Paramecium**

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**ZoS 108 · Common Earthworm**

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**ZoS 116/3 · Model Board of the Tape Worm**
Comparison of the pork tapeworm (Taenia solium) and the beef tapeworm (Taenia saginata), enlarged many times over, made from SOMSO®-Plast. After Christian Groß, Director of Studies. Cannot be disassembled, on a green base, with description. Height 38 cm, width 61 cm, depth 10 cm, weight 3.1 kg.

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**ZoS 108 Disassembled**

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**ZoS 48/5 · MODEL OF A MOSQUITO**
Common house mosquito, Culex pipiens. Scale: 50:1, made from SOMSO®-Plast. After Dr. E. Schicha. Separates into 3 parts. On green pull-out base to show the internal organs. Height 60 cm, width 75 cm, depth 65 cm, weight 3.1 kg.
**ZoS 57/2 · MEIOSIS**
As a component of reduction divisions, shown by 8 models with 2 explanatory introductory models, enlarged many times over, made from SOMSO®-Plast. After Christian Groß, Director of Studies. Cannot be disassembled. Individually mounted on a stand with green base. Weight 3.3 kg

**ZoS 57/3 · CHANGE OF NUCLEAR PHASES IN THE MATURATION OF SPERM AND OVUM (MEIOSIS)**
Enlarged many times over. After Christian Groß, Director of Studies, made from SOMSO®-Plast. Chromosomes of paternal and maternal origin as well as gonosomes (can be exchanged in diploid phase) are shown in different colours. The series consists of 5 individual models. Individually mounted on a stand with green base. Weight 2 kg

**ZoS 57/4 · CHROMOSOME MODEL**
Scale: 50,000:1, made from SOMSO®-Plast. Developed in co-operation with Christian Groß, Director of Studies. Can not be disassembled, on a green stand with base. Height 46 cm, width 18 cm, depth 18 cm, weight 1.4 kg

**ZoS 57/1 · MITOSIS**
After Christian Groß, Director of Studies. Enlarged many times over, made from SOMSO®-Plast. The series consists of 8 individual models. Cannot be disassembled. Each model on an individual stand with green base. Weight 7.1 kg

**ZoS 120 · ANIMAL CELL**
Scale: 2,000:1, made from SOMSO®-Plast. After Christian Groß, Director of Studies. The model shows the fine structure of an animal cell. Area of application: Extended cell examination. Cannot be disassembled, on a stand with green base. Height 52 cm, width 39 cm, depth 26 cm, weight 3.7 kg

**ZoS 57/20 · DNA DOUBLE HELIX (TYPE B-DNA)**
Scale: 30 x 10E6:1, made from SOMSO®-Plast. Developed in co-operation with Prof. Dr. H. P. Jennissen, Dr. M. Laub, and Prof. Dr. G. Witt. In one piece, can be rotated on a green base. Based on data gained from X-ray structure analysis, the model shows a section of a DNA double helix. It complies essentially with the model of the DNA structure postulated by Watson and Crick in 1953. Height 41.5 cm, width 18 cm, depth 18 cm, weight 0.995 kg
ZoS 58 · **Equal Cleavage and Gastrulation in the Lancelet**

Branchiostoma lanceolatum, Lancelet.
Scale approx.: 500:1, made from SOMSO®-Plast. Represented on 9 models on stand with green base, showing the different stages of cleavage, formation of blastula and primitive gut. Cannot be disassembled. Weight 1.9 kg.

ZoS 103 · **Reproduction of a Chicken Egg**

Linearly enlarged 6.5 times. Made from SOMSO®-Plast, after Christian Groß, Director of Studies. Cannot be disassembled, on a stand with green base and explanation. Height 43 cm, width 39 cm, depth 26 cm, weight 3.5 kg.

ZoS 54/1 · **Models of Vertebrate Hearts**

Can be disassembled, made from SOMSO®-Plast. 7 models in total, in natural size and partly enlarged, individually mounted on a stand with green base.
1. Bony fish (pike)
2. Frog
3. Turtle
4. Crocodile
5. Golden eagle
6. Dog
7. Human
14 parts in total. Weight 2.9 kg.

ZoS 59/N · **Lancelet Cross Section**

Through the branchia and middle intestine region of a fully-grown lancelet, Branchiostoma lanceolatum. Scale approx.: 150:1, made from SOMSO®-Plast. Cannot be disassembled, on a stand with green base. Height 20 cm, width 12 cm, depth 12 cm, weight 0.5 kg.

ZoS 59/M · **Lancelet**

Branchiostoma lanceolatum, scale approx. 150:1, made from SOMSO®-Plast. The three-part model shows the structure of the body of a fully-grown specimen: fin edges, muscle segments, position of the gonads, the nervous system, the chorda, intestine, and vascular system. On a stand with green base. Height 25 cm, width 68 cm, depth 14 cm, weight 3 kg.

ZoS 59/N · **Lancelet Cross Section**

Through the branchia and middle intestine region of a fully-grown lancelet, Branchiostoma lanceolatum. Scale approx.: 150:1, made from SOMSO®-Plast. Cannot be disassembled, on a stand with green base. Height 20 cm, width 12 cm, depth 12 cm, weight 0.5 kg.

ZoS 55 · **Models of Vertebrate Brains**

The series of skull reproductions is based on a co-operation with The Bavarian State Collection of Zoology in Munich.

ZoS 53 · CHIMPANZEE SKULL
Pan troglodytes (Blumenbach 1799), male, natural size. Made from SOMSO®-Plast. Lower jaw movable and can be removed. Weight 0.42 kg

ZoS 50 · GORILLA SKULL
Gorilla g. gorilla (Savage u. Wyman 1847), male, natural size. Made from SOMSO®-Plast, lower jaw movable and can be removed. Weight 1.07 kg

ZoS 53/1 · CHIMPANZEE SKULL, JUVENILE
Pan troglodytes (Blumenbach 1799), natural size. Made from SOMSO®-Plast, lower jaw movable and can be removed. Weight 0.16 kg

ZoS 52 · ORANGUTAN SKULL
Pongo p. pygmaeus (Hoppins 1763), male, natural size, made from SOMSO®-Plast, lower jaw movable and can be removed. Weight 0.355 kg

ZoS 53/107 · ARTIFICIAL CHIMPANZEE SKULL
Pan troglodytes, male, natural size, made from SOMSO®-Plast, consists of 3 parts. Cranium can be removed, lower jaw movable and can be removed. Weight 0.607 kg

ZoS 53/110 · ARTIFICIAL SKELETON OF A CHIMPANZEE
Pan troglodytes, skeleton of a male chimpanzee, natural size, made from SOMSO®-Plast. Age: approx. 12 years. On a stand with green base. Height 90 cm, width 82 cm, depth 40 cm, weight 10.3 kg

ZoS 53/2 · CHIMPANZEE SKULL
Pan troglodytes, female, natural size, made from SOMSO®-Plast. Lower jaw movable and can be removed. Weight 0.5 kg

ZoS 53/116 · ARTIFICIAL PELVIS OF A CHIMPANZEE
Natural size, made from SOMSO®-Plast, weight 0.640 kg.

ZoS 53/111 · ARTIFICIAL HAND SKELETON OF A CHIMPANZEE
Natural size, made from SOMSO®-Plast, weight 0.107 kg.

ZoS 53/122 · ARTIFICIAL FOOT SKELETON OF A CHIMPANZEE
Natural size, made from SOMSO®-Plast, weight 0.120 kg.

ZoS 52 · BEAVER SKULL
Castor fiber (LINNE, 1758), Natural size, made from SOMSO®-Plast. Lower jaw movable and can be removed. Weight 0.3 kg
**Salamanders**

ZoS 1000 - ALPINE SALAMANDER, MALE
Salamandra a. atra.
ZoS 1000/2 - ALPINE SALAMANDER, TWO JUVENILES
Salamandra a. atra.
ZoS 1002 - SPOTTED FIRE SALAMANDER, FEMALE
Salamandra s. salamandra.

**Newts**

ZoS 1004 - ALPINE NEWT, MALE AND FEMALE, IN THEIR AQUATIC FORM
Ichthyosaura a. alpestris.
ZoS 1007 - SMOOTH NEWT, MALE AND FEMALE, IN THEIR AQUATIC FORM
Lissotriton v. vulgaris.

**Midwife Toads, Toads**

ZoS 1009 - YELLOW-BELLIED TOAD
Bombina v. variegata.

**True Toads**

ZoS 1012 - COMMON TOAD, MALE
Bufo b. bufo.
ZoS 1013/2 - COMMON TOAD, PAIR IN AMPLEXUS.
Bufo b. bufo.

**True Frogs, Tree Frog**

ZoS 1016/1 - EUROPEAN TREE FROG, (2 MODELS) FEMALE
Rana t. temporaria.
ZoS 1017 - COMMON FROG, MALE
Rana t. temporaria.
ZoS 1018 - COMMON FROG, FEMALE
Rana t. temporaria.
ZoS 1021 - WATER FROG, MALE
Pelophylax lessonae.
ZoS 1023 - POND FROG®, MALE
Pelophylax kl. esculentus.
ZoS 1024 - POND FROG®, FEMALE
Pelophylax kl. esculentus.

**Amphibians and Reptiles of Central Europe**

This series of life-size, generic animal models made from SOMSO® Plast was developed in co-operation with Christian Groß, Director of Studies. They are manufactured mainly by hand and exclusively in Coburg and Sonneberg/Thuringia. Trinomial nomenclature has been used for the scientific names of the models. It provides information regarding the subspecies "form", which is typical or prevalent in Central Europe and which has been the template for the design of each respective model type.

All animal models are reproduced to be lifelike down to the smallest detail and are painted minutely and accurately on the undersides as well. The structures and surfaces are true representations of the originals.

**ZOOGY**

REALISTIC ANIMAL MODELS

ZoS 1000/1 - ALPINE SALAMANDER, FEMALE
Salamandra a. atra.
ZoS 1001 - SPOTTED FIRE SALAMANDER, MALE
Salamandra s. salamandra.
ZoS 1002 - ALPINE NEWT, MALE AND FEMALE, IN THEIR AQUATIC FORM
Triturus cristatus.
ZoS 1003 - PALMATE NEWT, MALE AND FEMALE, IN THEIR AQUATIC FORM
Lissotriton helveticus.

ZoS 1009 - MIDWIFE TOAD WITH SPAWN, MALE
Alytes o. obstetricans.

ZoS 1008 - MIDWIFE TOAD WITH SPAWN, MALE
Alytes o. obstetricans.

ZoS 1012 - COMMON TOAD, FEMALE
Bufo b. bufo.

ZoS 1013 - COMMON TOAD, MALE
Bufo b. bufo.
ZoS 1013/2 - COMMON TOAD, PAIR IN AMPLEXUS.
Bufo b. bufo.

ZoS 1019 - MOOR FROG, MALE
Rana a. arvalis.

ZoS 1019/4 - MOOR FROG - PAIR IN AMPLEXUS.
Rana a. arvalis.

In the past also called "pool frog" - harmonisation of trivial names

In the past also called "water frog" - harmonisation of trivial names
**Lizards, Slow Worms**

**ZoS 1250 - European Green Lizard, Male**
Lacerta viridis.

**ZoS 1250/2 - Slow Worm, Female**
Anguis f. fragilis

**ZoS 1250/1 - Viviparous Lizard, Female**
Zootoca v. vivipara

**ZoS 1259 - Viviparous Lizard, Male**
Zootoca v. vivipara

**Snakes, Turtles and Tortoises, Snails and Slugs, Neozoans**

**ZoS 1036 - Common Viper, Young Male**
Vipera b. berus

**ZoS 1036/2 - Common Viper, Adult Male**
Vipera b. berus.

**ZoS 1033 - Grass Snake, Female**
Natrix natrix natrix

**ZoS 1032 - Smooth Snake, Male**
Coronella a. austriaca

**ZoS 1207 - Roman Snail**
Helix pomatia

**Bat, Poison Dart Frogs**

**ZoS 1308 - Greater Mouse-eared Bat, Male**
Myotis myotis

**ZoS 1252/1 - Dyeing Poison Dart Frog, Female, "Regina"**
Dendrobates tinctorius

**ZoS 1252/2 - Blue Poison Dart Frog, Female**
Dendrobates tinctorius "azureus"

**ZoS 1250/3 - Golden Poison Frog, Female, "La Brea" Cream-coloured**
Phyllobates terribilis

Further bat models are available:

**ZoS 1306 - Common Pipistrelle**

**ZoS 1309 - Brown Long-eared Bat**

**ZoS 1312 - Common Noctule**

Mr. Manfred Eichler, Biological Model Maker from the SOMSO®-Painting Department, painting a realistic animal model.

Together with the Biological Model Makers Rudolf Galle and Manfred Eichler, Christian Groß, Director of Studies, compares a live specimen of the red variant of the fire salamander with the painted version of the SOMSO® model ZoS 1001/RV.
**INTRODUCTION TO BOTANY**

Plant morphology
Cryptogams
Gymnosperms
Monocotyledonous Plants (Monocotyledons)
Dicotyledonous Plants (Dicotyledons)
Microscopic Fungi, Fungi Models

SOMSO® Botanical Models are categorized mainly by plant system.

**PLANT MORPHOLOGY**

**BoS 16/1 · PLANT CELL**
Enlarged approx. 6,000 times, made from transparent SOMSO®-Plast with base. Cannot be disassembled. H. 36 cm, W. 31 cm, D. 27 cm, Wt 1.7 kg

**BoS 16/2 · CHLOROPLAST OF A HIGHER PLANT**
Enlarged approximately 60,000 times, made from SOMSO®-Plast. Separates into 2 parts. On a stand with green base. H. 38 cm, W. 39 cm, D. 26 cm, Wt 3.2 kg

**BoS 16 · PLANT CELL**
Enlarged 3,000 times, made from SOMSO®-Plast. After Prof. Dr. W. Jung. Showing the microscopical fine structure. On a green base. Cannot be disassembled. H. 7 cm, W. 32 cm, D. 19 cm, Wt 0.7 kg

**BoS 19 · FERTILISATION OF ANGIOSPERMS**
Polygonum type, enlarged 300 times, made from SOMSO®-Plast. After Prof. Dr. W. Jung. On a green base. Cannot be disassembled. H. 66 cm, W. 30 cm, D. 14 cm, Wt 3.3 kg

**BoS 14/3-A · COMMON LIVERWORT**
Marchantia polymorpha, enlarged approximately 10 times, made from SOMSO®-Plast. Separates into 5 parts. On a green base. H. 19 cm, W. 26 cm, D. 32 cm, Wt 1 kg

**BoS 14/4-A · FIELD HORSETAIL**
Equisetum arvense, fertile shoot, enlarged approximately 6 times, sporophyll with sporangia enlarged approximately 50 times, vegetative shoot enlarged approximately 3 times, made from SOMSO®-Plast. On a stand with green base. Cannot be disassembled. H. 35 cm, W. 33 cm, D. 15 cm, Wt 1 kg

**BoS 14/5 · WORM FERN, PROTHALLIUM**
Dryopteris filix-mas, enlarged approximately 45 times, made from SOMSO®-Plast. Cannot be disassembled. On a stand with green base. H. 31 cm, W. 26 cm, D. 20 cm, Wt 900 g

**Recommended additions to the models of cryptogams:**
BoS 14/4 · Field Horsetail
BoS 14/5-A · Worm Fern,
Spore Formation
SOMSO® Botanical Models were mainly developed in close co-operation with Professor Dr. Wilhelm Weber († 2011).

**GYMNOSPERMS**

**BoS 15/30 · PINE, MALE**
Pinus sylvestris, flower enlarged approximately 18 times, stamen enlarged approximately 90 times, made from SOMSO®-Plast. Cannot be disassembled. On a stand with green base. H. 33 cm, W. 33 cm, D. 15 cm, Wt 0.7 kg

**BoS 15/31 · PINE, FEMALE**
Pinus sylvestris, inflorescence enlarged approximately 20 times, seed scale with ovules and covering scale enlarged approximately 80 times, made from SOMSO®-Plast. On a stand with green base. H. 33 cm, W. 33 cm, D. 15 cm, Wt 1.0 kg

**BoS 21 · ANATOMICAL FINE STRUCTURE OF PINEWOOD**
Pinus sp., enlarged approximately 350 times, made from SOMSO®-Plast. After Prof. Dr. W. Jung. Cannot be disassembled, on a green base. H. 15 cm, W. 65 cm, D. 30 cm, Wt 5.2 kg

**BoS 21/2 · CONIFEROUS LEAF OF THE BLACK PINE (CROSS AND LONGITUDINAL SECTIONS)**
Pinus nigra, enlarged approximately 300 times, made from SOMSO®-Plast. Separates into 3 parts, on a green base. H. 12 cm, W. 39.5 cm, D. 28 cm, Wt 1.6 kg

**MONOCOTYLEDONOUS PLANTS (MONOCOTYLEDONS)**

**BoS 15/3 · TULIP BULB**
Tulipa gesneriana, enlarged approximately 5 times, made from SOMSO®-Plast. The model shows a longitudinal section of the structure of a sprouting tulip bulb. Separates into 3 parts, on a green base. H. 31 cm, W. 18 cm, D. 18 cm, Wt 680 g

**BoS 15/2 · GARDEN TULIP, FLOWER**
Tulipa gesneriana, enlarged approximately 4 times, made from SOMSO®-Plast. After Prof. Dr. W. Jung. One half of the corolla can be removed to show the stamens and the pistil. Separates into 3 parts. On a green base. H. 42 cm, W. 18 cm, D. 18 cm, Wt 1 kg

**BoS 20/2 · ROOT TIP OF A MONOCOTYLEDONOUS PLANT IN LONGITUDINAL AND CROSS SECTION**
Barley, Hordeum vulgare, enlarged approximately 200 times, made from SOMSO®-Plast. Cannot be disassembled, on a green base. H. 37 cm, W. 18.5 cm, D. 18.5 cm, Wt 1.5 kg

**BoS 15/5 · RYE SPIKELET**
Secale cereale, enlarged approximately 25 times, made from SOMSO®-Plast. After Prof. Dr. W. Jung. Separates into 4 parts. The grass spikelet model shows the typical structure of wind pollination. On a stand with green base. H. 93 cm, W. 35 cm, D. 18 cm, Wt 0.8 kg

**BoS 18 · MODEL OF A WHEAT GRAIN CROSS SECTION**
An example of a caryopsis. Triticum aestivum L., enlarged approximately 75 times, made from SOMSO®-Plast. After Prof. Dr. W. Jung. Cannot be disassembled, on a green base. H. 49 cm, W. 30 cm, D. 12 cm, Wt 2.8 kg
DICOTYLEDONOUS PLANTS (DICOTYLEDONS)

BoS 1 · APPLE BLOSSOM
Malus domestica, enlarged approximately 10 times. Made from SOMSO®-Plast, after Prof. Dr. W. Jung. Separates into 6 parts. On a stand with green base. H. 41 cm, W. 48 cm, D. 45 cm, Wt 1.8 kg

BoS 2 · APPLE BLOSSOM - CROSS SECTION OF THE OVARY
Malus domestica, enlarged approximately 10 times. Made from SOMSO®-Plast, after Prof. Dr. W. Jung. Cannot be disassembled. On a stand with green base. H. 19 cm, W. 18 cm, D. 18 cm, Wt 370 g

BoS 3 · APPLE BLOSSOM - LONGITUDINAL SECTION OF THE OVARY
Malus domestica, enlarged approximately 10 times. Made from SOMSO®-Plast, after Prof. Dr. W. Jung. Cannot be disassembled. On a stand with green base. H. 40 cm, W. 18 cm, D. 18 cm, Wt 620 g

BoS 15/20 · BUTTERCUP, FLOWER AND FRUIT
Meadow buttercup, Ranunculus acer, flower enlarged approximately 10 times, fruit enlarged approximately 20 times, made from SOMSO®-Plast. Cannot be disassembled. On a stand with green base. Flower: H. 34 cm, W. 26 cm, D. 26 cm, Wt 700 g. Fruit: H. 30 cm, W. 18 cm, D. 18 cm, Wt 600 g

BoS 15/1 · MEADOW CLARY
Salvia pratensis, enlarged approximately 15 times, made from SOMSO®-Plast. After Prof. Dr. W. Jung. Cannot be disassembled, on a stand with green base. The forward-rocking mechanism of the stamens can be demonstrated. H. 36 cm, W. 33 cm, D. 18 cm, Wt 700 g

BoS 15/21 · CHERRY BLOSSOM
Sweet cherry, Prunus avium, enlarged approximately 9 times, made from SOMSO®-Plast. Separates into 3 parts. On a stand with green base. H. 33 cm, W. 31 cm, D. 31 cm, Wt 800 g

BoS 15/15 · PEA, FLOWER
Pisum sativum, enlarged approximately 9 times, made from SOMSO®-Plast. Separates into 3 parts. On a stand with green base. H. 40 cm, W. 23 cm, D. 26 cm, Wt 850 g

BoS 15/11 · RAPESEED FLOWER
Brassica napus, enlarged approximately 10 times, made from SOMSO®-Plast. Separates into 2 parts. On a stand with green base. H. 34 cm, W. 28 cm, D. 28 cm, Wt 700 g

BoS 15/19 · DANDELION, INFLORESCENCE, INDIVIDUAL BLOSSOM AND FRUIT
Taraxacum officinale, enlarged approximately 8 times + 16 times, made from SOMSO®-Plast. On a green base. H. 35 cm, W. 33 cm, D. 18 cm, Wt 1.1 kg

BoS 15/6 · REAL CAMOMILE
Matricaria chamomilla, inflorescence (anthodium), enlarged approximately 9 times + 16 times, made from SOMSO®-Plast. Ligulate flower enlarged 20 times, tubular flower enlarged 80 times. Cannot be disassembled. On a stand with green base. H. 33 cm, W. 38 cm, D. 12 cm, Wt 800 g
If interested, please request our catalogue A 75/2+3, which provides information on the entire range of SOMSO® flower models.
**Microscopic Fungi, Fungi Models**

**BoS 227 · STRUCTURE OF HAT FUNGI**
Large model. Appraised by Dr. rer. nat. Axel Meixner, Graduate Chemist and fungi expert, Stuttgart. Separates into 4 parts. Made from SOMSO®-Plast. On a green base. H. 45 cm, W. 46 cm, D. 35 cm (hat diameter 35 cm), Wt 5.4 kg

**BoS 226/1 · MYCORRHIZA OF SCOTS PINE**
Pinus sylvestris
Piece of root, enlarged approximately 40 times, cross section enlarged approximately 430 times, made from SOMSO®-Plast. After Prof. Dr. W. Weber. Separates into 2 parts, on a green base. H. 32 cm, W. 26 cm, D. 16.5 cm, Wt 1.5 kg

**BoS 29 · LECCINUM**

text continues...

**BoS 28 · CHANTERELLE, EGG MUSHROOM**
Cantarellus cibarius
Edible

**BoS 25 · DEATH CAP**
Amanita phalloides
Deadly poisonous and extremely dangerous!

**BoS 45 · PARASOL**
Macrolepiota procera
Edible

**BoS 226 · DEVELOPMENT OF HAT FUNGI**
natural size, made from SOMSO-Plast®. Appraised by Dr. rer. nat. Axel Meixner, Graduate Chemist and fungi expert, Stuttgart. Separates into 6 parts in total. On a green base. H. cm, W. 47 cm, D. 15 cm, Wt 2 kg

**BoS 14/1 · MUCOR**
Mucor mucedo, enlarged approximately 250 times, made from SOMSO®-Plast. Separates into 3 parts. On a green base. H. 18.5 cm, W. 32 cm, D. 25.3 cm, Wt 600 g

**BoS 31 · BOLETUS**
Boletus edulis
Edible

**BoS 41 · FLY AGARIC**
Amanita muscaria
Poisonous

**BoS 43 · BAY BOLETUS**
Xerocomus badius
Edible

**BoS 53 · DEVIL’S BOLETE**
Boletus satanas
Poisonous

**BoS 56 · COMMON EARTHBALL**
Scleroderma citrinum
Poisonous

The range of SOMSO® fungi models comprises almost 250 species. If you are interested, please request special catalogue A 75/SV-VIII.