ERLER ZIMMER

Anatomical Models



Detailed article information at: **www.erler-zimmer.de**

SKELETON OVERVIEW

ERLER ZIMMER
Skeletons since 1950

Casts of real human skeletons in highest quality and attention to detail.

All bones are individually crafted and carefully assembled.

Easy to assemble. All individual parts are pre-assembled.



	Oscar Ref.no. 2960	Willi Ref.no. 3001	Hugo Ref.no. 3014	Otto Ref.no. 3004
rigid spine	✓	✓		✓
flexible spine			✓	
muscle marking				
Joint ligaments at shoulder, elbow, hip & knee				✓
Herniated Disc	✓			
Spinal Nerves	✓	✓	✓	✓
three part Skull	✓	✓	✓	✓
detachable arms	✓	✓	✓	✓
detachable legs	✓	✓	✓	✓
detachable feet	✓	✓	✓	✓
sliding joints shoulder	✓	✓	✓	✓
sliding joints hip	✓	✓	✓	✓
leg separates at knee	✓	✓	✓	✓
movable scapula		✓	✓	✓
Roller stand	✓	✓	✓	✓
Size incl. Stand (cm)	178	178	178	178
weight appr. (kg)	9	9	9	10

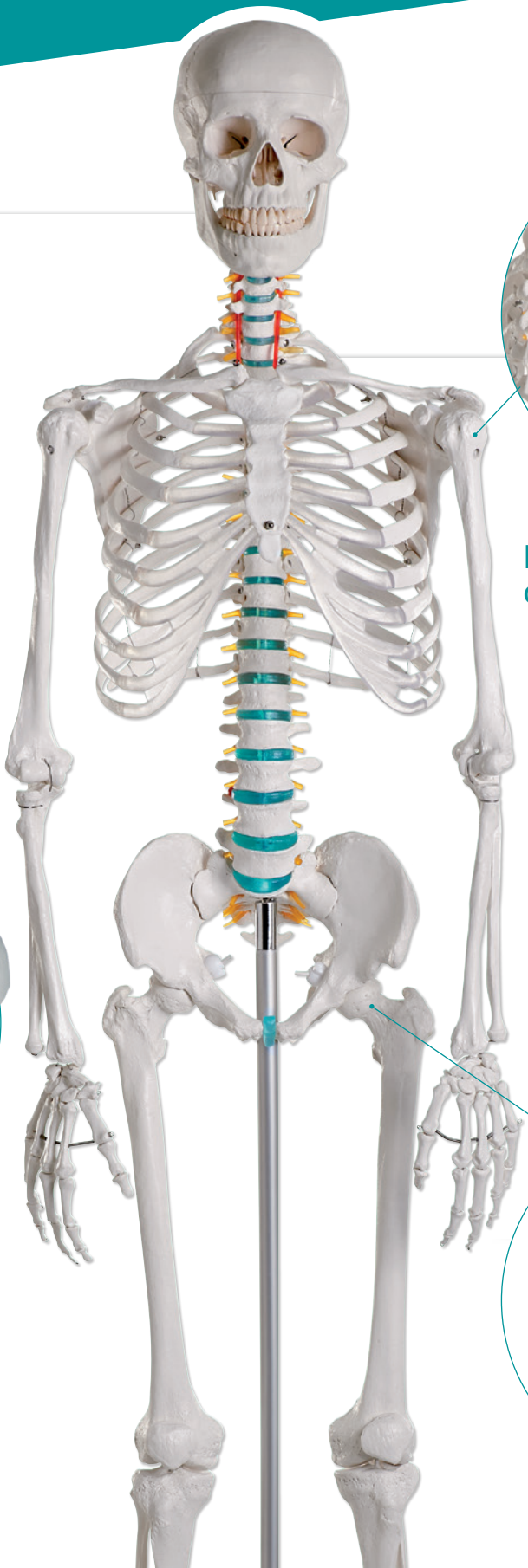


Toni	Arnold	Peter	Bert	Max
Ref.no. 3013	Ref.no. 3008	Ref.no. 3015	Ref.no. 3010	Ref.no. 3016
	✓		✓	
✓		✓		✓
	✓	✓	✓	✓
✓			✓	✓
✓	✓	✓	✓	✓
✓	✓	✓	✓	✓
✓	✓	✓	✓	✓
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✓	✓	✓	✓	✓
✓	✓	✓	✓	✓
✓	✓	✓	✓	✓
✓	✓	✓	✓	✓
✓	✓	✓	✓	✓
✓	✓	✓	✓	✓
178	178	178	178	178
10	9	9	10	10

ERLER-ZIMMER SKELETONS

All Erler-Zimmer skeletons are castings of natural skeletons of highest quality and authenticity. The models in resistant synthetic material show all the anatomical details, structures, fissures, foramina and processes. All bones are manufactured individually and have been carefully assembled. Hands and feet are mounted flexibly on wire. Arms, legs and the skull can be removed easily and partially disassembled. The 5-leg castor-mounted stand provides the model with a consistently good support and allows simple transport from one room to another.

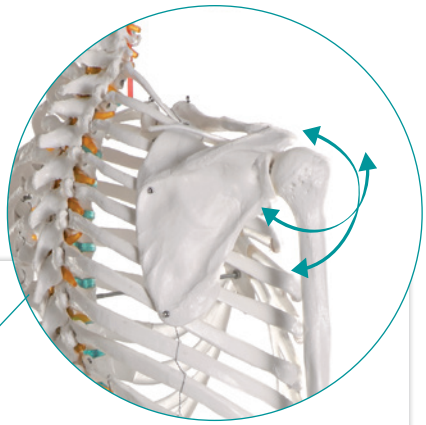
All human Skeleton models: Height: 1,78 m



Idealized Skull

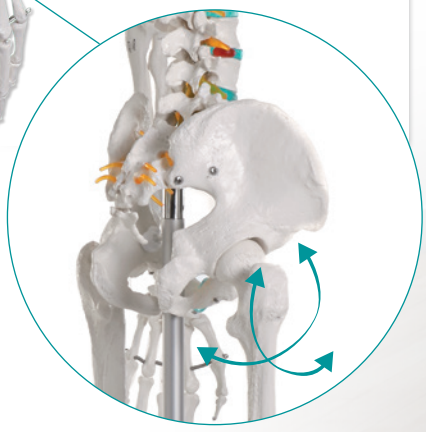
The three part skull was digitalized and modified to correspond with the standard anatomy. The size corresponds to European standard size, all important structures, fissures, foramen and processes are represented. The skull can be dismantled into base, lower jaw and skull cap. The skullcap is adjusted to the base with metal pins and held with magnets. Due to this technology no pin can break and there will be no gap between skull cap and base. This distinguishes the skull from most competitors skulls. There are no hooks that could break or deform.





Natural movement of the joints

Unlike the skeletons with metal joints Erler-Zimmer Skeletons are able to move the joints freely, the joint surfaces slide on each other and do not stick out like the joints in other skeletons do. This allows to demonstrate not only turning movements, but all possible joint movements. The quick fasteners allow to remove and reassemble the joint connections in seconds. This makes removing or assembling the limbs a childs play.

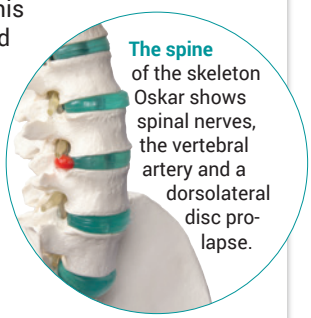


Didactic skeleton *Oscar*

BEST SELLER

First class reproduction of a male adult skeleton at a very reasonable price. This skeleton is manufactured according to our strict quality regulations. The stable mounting and robust structure guarantees a long lasting quality even in intensive use.

Ref.no. 2960
Details:



The spine of the skeleton Oskar shows spinal nerves, the vertebral artery and a dorsolateral disc prolapse.



Human Skeleton Model *Willi*

The ideal model for anatomical study. Actual cast of a real human skeleton in highest quality. All details and structures are faithfully reproduced.

Ref.no. 3001
Details:

Movable shoulder blades
The shoulder blades are mounted in such a way that they are capable of simultaneous motion with arm movements. Consequently, the natural movement process can be illustrated.

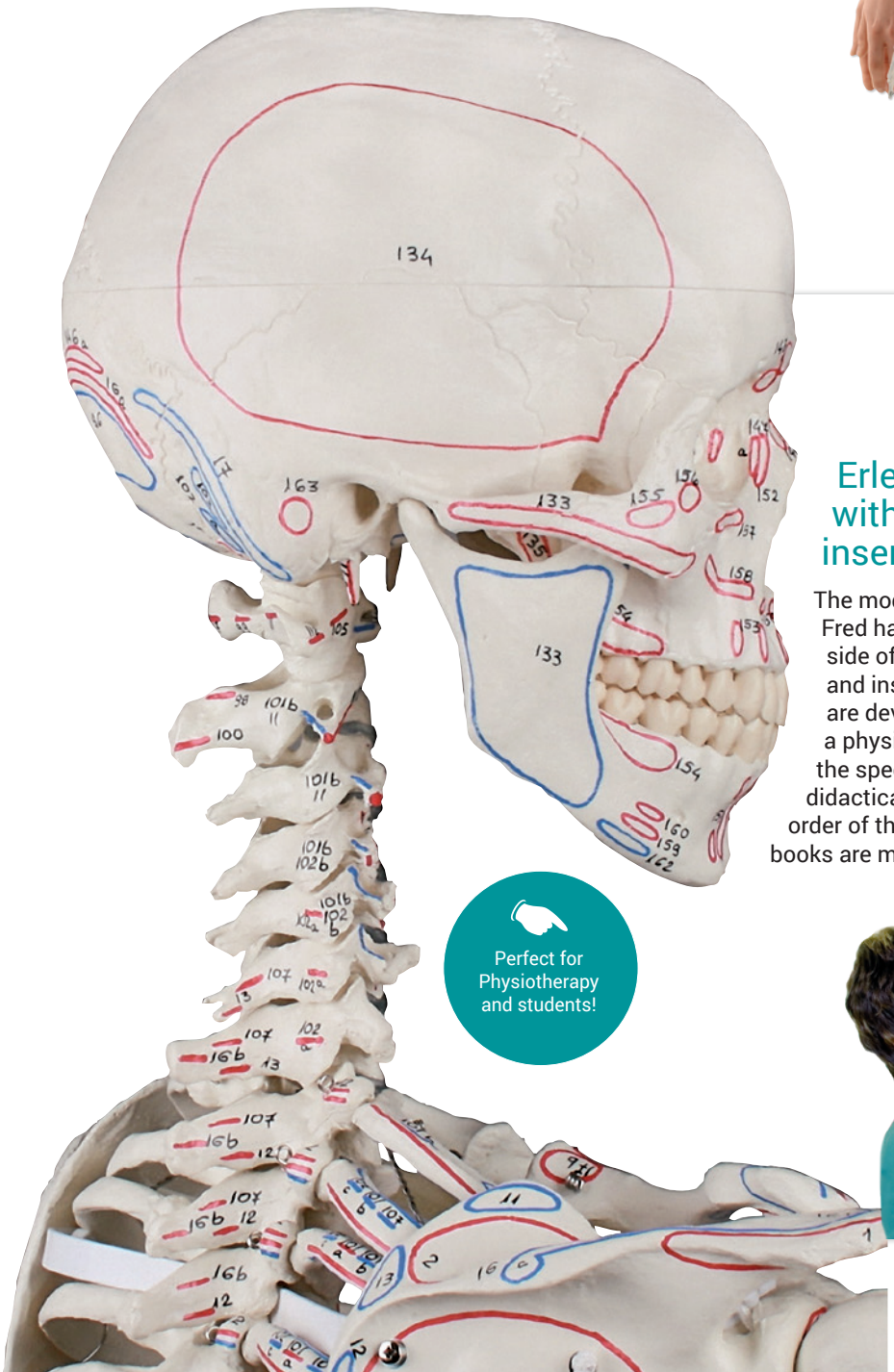


Flexible ankle joint
The upper ankle joint is mounted on elastic band and allows all movements. The foot can be simply removed in order to take it to a lesson, for example.

ERLER-ZIMMER THERAPY SKELETONS

In order to do justice to the increasing requirements of therapeutic training, the EZ-therapy skeletons offer a fully mobile vertebral column. Mounted on a highly robust and simultaneously optimally flexible metal spiral hose, this vertebral column can be simply set in any position. In addition to normal postures, malpositions and malpostures can be demonstrated very impressively. Owing to the special flexible intervertebral discs, the vertebral column can not only be flexed but also rotated itself. These intervertebral discs behave like natural discs when flexing the vertebral column, i.e. they can be compressed or expanded. Consequently, the vertebral column can be flexed in an anatomically correct manner, without a cleft arising between intervertebral disc and vertebra. The spinal cord and spinal nerves derived from it provide an additional important demonstration option.





Erler-Zimmer Skeletons with marking of muscle insertions and origins

The models Arnold, Bert, Peter, Max, Daniel and Fred have muscle markings. On the right body side of the skeleton the muscle origins (red) and insertions (blue) are marked. The markings are developed together with the teachers of a physiotherapy academy and comply with the special needs of physiotherapists. The didactical order of the key card fits the didactical order of the physiotherapy education. Suitable books are mentioned in the key card.

Perfect for Physiotherapy and students!



BEST SELLER

Human Skeleton Model *Hugo*

This therapy skeleton with a movable vertebral column is ideal for anyone who not only wants to learn anatomy, but also wishes as a therapist to understand or explain the connections between movements, postures and malpositions.

Ref.no. 3014
Details:



Human Skeleton Model *Arnold*

This anatomical skeleton model does not only show all bony structures in high detail, but also has marking of muscle attachments and origins on the right body half. It is perfect to learn the three dimensional function of the human musculature.

Ref.no. 3008
Details:

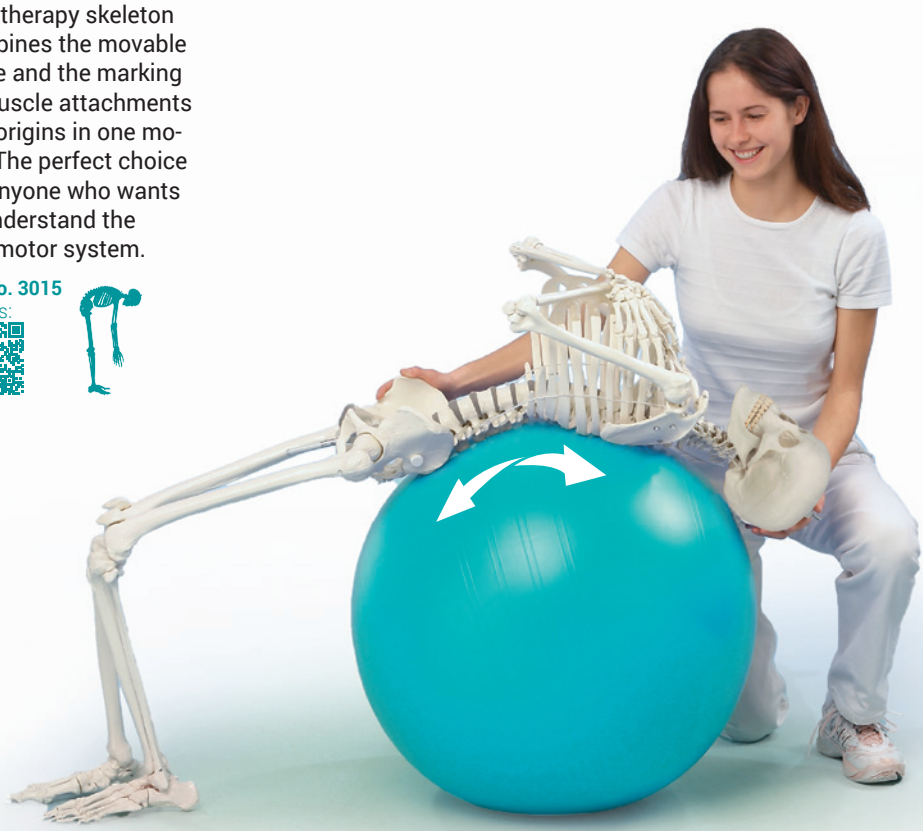




Human Skeleton Model *Peter*

This therapy skeleton combines the movable spine and the marking of muscle attachments and origins in one model. The perfect choice for anyone who wants to understand the locomotor system.

Ref.no. 3015
Details:



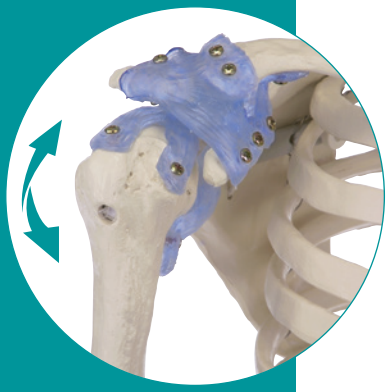
ARTICULAR LIGAMENTS

Flexible articular ligaments in the knee, hip, elbow and shoulder allow demonstration of movements and explanation of function. The most important ligaments in each case are represented.











Human Skeleton Model

Otto

with articular ligaments.
Anatomical skeleton model with representation of the articular ligaments of elbow, shoulder, hip and knee. All bony details and structures are shown in detail.

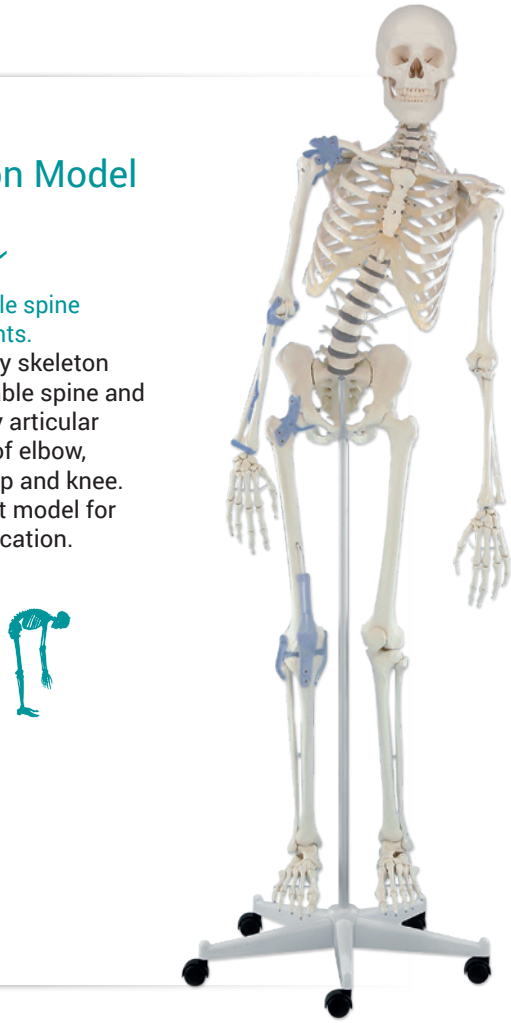
Ref.no. 3004
Details:

Human Skeleton Model

Toni

with movable spine and ligaments.
This therapy skeleton has a movable spine and additionally articular ligaments of elbow, shoulder, hip and knee. Thje perfect model for patient education.

Ref.no. 3013
Details:





Human Skeleton Model *Bert*

with movable spine and ligaments.
Anatomical Skeleton Model with articular ligaments in elbow, shoulder, hip and knee as well as marking of the muscle origin and insertion. All bony structures and details are represented in detail. A perfect model for education and patient education.

Ref.no. 3010
Details:

Accessories for skeleton models:

Foot, mounted on rubber

You may have the right foot of the skeleton models mounted on rubber band to allow demonstration of the rolling movement.

Ref.no. 3018R
Details:





BEST SELLER

Human Skeleton Model *Max*

with movable spine, muscle markings and ligaments.
This top model of our skeleton series combines all features in one skeleton and leaves nothing to be desired. The spine is fully movable, the articular ligaments of elbow, shoulder, hip and knee are represented, and the origin and attachments of muscles are marked. With this model you are well equipped for all tasks during education or on your job.

Ref.no. 3016
Details:



Dust cover for Skeleton

This rugged cover is made of plastic fabric and protects your skeleton model from dust and hides it at the same time. The cover is simply pulled over the skeleton without any zipper or other element that could break.

Ref.no. 3099
Details:



Fetal Skeleton, 30th week

An excellent detailed human fetal skeleton. The average body length measurements suggest an age of 8.5 to 9 months, but developmental osteologic features are most suggestive of 7 to 7.5 months.

Ref.no. 2850
Details:



↑ appr. 40 cm

Child Skeleton, 14 to 16-month-old

The 14 to 16-month-old child skeleton demonstrates the unfused epiphyses of the long bones, and the cartilaginous margins of many of the bones at this age of development.

Ref.no. 2870
Details:



↑ 65 cm

Child Skeleton, 5 year old

Our 5-year-old skeleton is produced from the skeleton of an average 5-year-old. The reproduction of this skeleton includes all of the primary and secondary centers of ossification which demonstrate sufficient morphological detail to be isolated, recognized, and identified out of anatomical context.

Ref.no. 2800
Details:

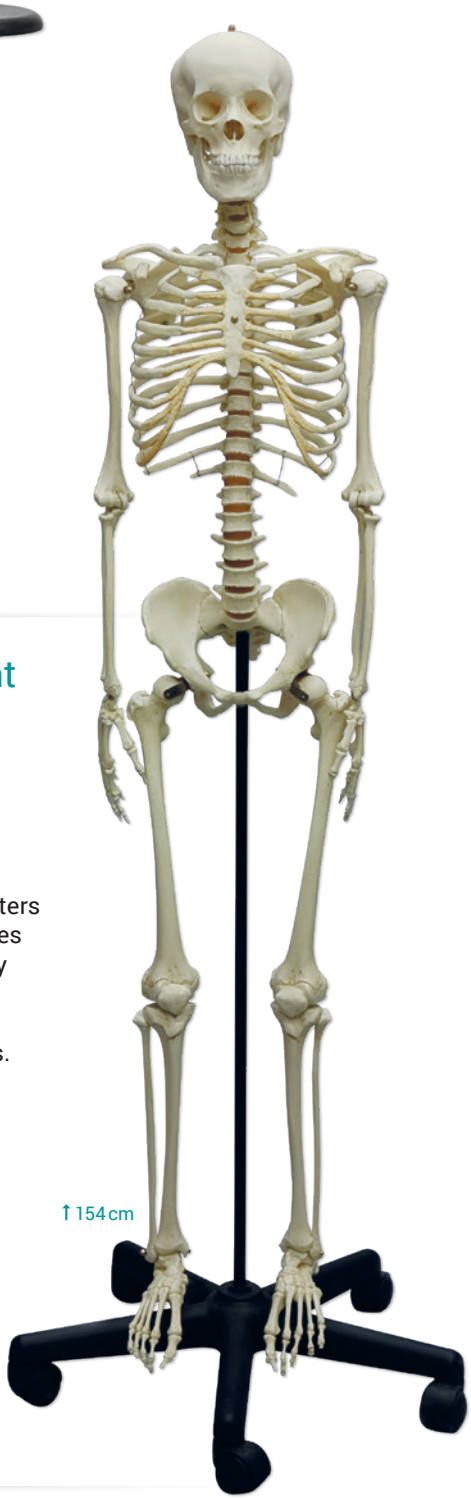


↑ 94 cm

Adolescent Skeleton

The developing skeleton is very different from adult skeletons -- the numerous ossification centers and growth plates can dramatically change the appearance of individual bones.

Ref.no. 2700
Details:



↑ 154 cm

MINIATURE – SKELETONS



Erler-Zimmer Miniature-Skeletons are complex reproductions of our life-size skeleton models and are always a good choice in case there is not enough space or if there are other reasons not to buy a life size one. The reproductions are about ½ life size and are as movable as the life-size counterparts. This series also offers a variety of features to allow everyone to find the suitable model.

BEST SELLER

Miniature-Skeleton *Tom*

This reasonable priced skeleton offers everything a student, or a beginner will need. Skull, arms and legs are removable, the skeleton can be taken off the stand.

Ref.no. 3032
Details:

All skeletons are detachable from the stand.



Miniature-Skeleton *Patrick*

The standard skeleton of the miniature-skeleton series. The spine is non-movable, the limbs can be moved and taken off like the three part skull.

Ref.no. 3030
Details:

Miniature-Skeleton *Paul*

with movable spine.
This miniature-skeleton has a spine, that can be moved easily in any desired position. The three part skull and the limbs can be removed.

Ref.no. 3040
Details:





Miniature-Skeleton *Daniel*

with muscle marking.
This miniature model is marked carefully with the muscle origins and insertions. Due to this the model offers the same information as the life size model.

Ref.no. 3035
Details:



Miniature-Skeleton *Fred*

with movable spine and muscle marking.
Fred comes with a fully movable spine and is marked carefully with the muscle origins and insertions. Due to this the model offers the same information as the life size model.

Ref.no. 3045
Details:



Bone-collection



Skeleton, unassembled

BEST SELLER

All bones of the human skeleton loosely in a storage box. One of the hands and one of the feet is mounted on wire, the other is supplied loosely in a bag. No construction kit, not suitable for self-assembly!

Ref.no. 3020
Details:

Half skeleton, unassembled

All bones of a human skeleton loosely as a set. Twin bones are in the box only once (e.g. only right ribs.). The hand and foot are mounted on wire.

Ref.no. 3024
Details:

Individual bone components

Do you require only certain bone components? Using the following order numbers, you can compose your own individual bone collection.

Ref.no. 3050 foot bones, unmounted
Ref.no. 3051 tibia
Ref.no. 3052 fibula
Ref.no. 3053 patella (kneecap)
Ref.no. 3054 femur
Ref.no. 3055 half pelvis
Ref.no. 3060 sacrum with coccyx
Ref.no. 3062 vertebra, individual (state C1 to L5)
Ref.no. 3070 ribs (12 items, one side)
Ref.no. 3071 sternum
Ref.no. 3080 hand bones, unmounted
Ref.no. 3081 ulna
Ref.no. 3082 radius
Ref.no. 3083 humerus (upper arm)
Ref.no. 3084 scapula (shoulder blade)
Ref.no. 3085 clavicle (collar bone)

Ref.no. 3050-3085
Details:

Pelvis with sacrum f/m

Pelvis of a female adult.

Ref.no. 4054
Details:

Pelvis of a male Adult.

Ref.no. 4052
Details:



Pelvis with sacrum and 2 lumbar vertebrae f/m

Adult female pelvis. Wings of ilium, sacrum and flexibly mounted L5 and L4.

Ref.no. 4058
Details:

Adult male pelvis. Wings of ilium, sacrum and flexibly mounted L5 and L4.

Ref.no. 4056
Details:



Pelvis with sacrum, 2 lumbar vertebrae and femoral stumps f/m

Adult female pelvis.
The vertebrae are mobile mounted and the femoral stumps are movable and removable.

Ref.no. 4059
Details:

Adult male pelvis.
The vertebrae are mobile mounted and the femoral stumps are movable and removable.

Ref.no. 4057
Details:

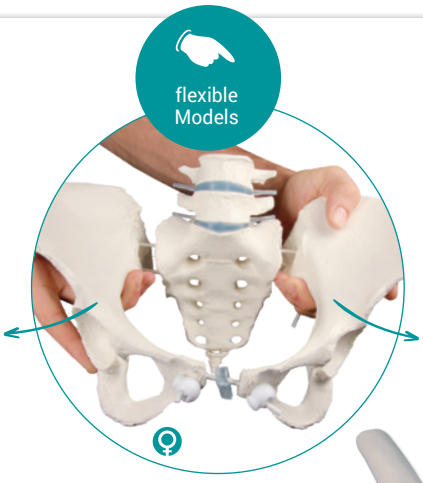


Pelvis with sacrum and 2 lumbar vertebrae, flexible

Adult female pelvis. The pelvis can be disassembled easily. It is mounted with rubber bands to allow an exceptional range of movement. With flexible L5 and L4.

Ref.no. 4058G
Details:

BEST SELLER



Pelvis with sacrum, 2 lumbar vertebrae and femoral stumps, flexible

Adult female pelvis The pelvis can be disassembled fast and easily. It is completely mounted with rubber bands to allow an exceptional range of movement. With flexibly mounted L5 and L4. The femoral stumps are movable and removable.

Ref.no. 4059G
Details:



Pelvis with sacrum, flexible

Adult female pelvis. The pelvis can be disassembled fast and easily. It is completely mounted with rubber bands to allow an exceptional range of movement.

Ref.no. 4054G
Details:

Pelvis of a 5 year old child



Size approx 10 x 15 cm.

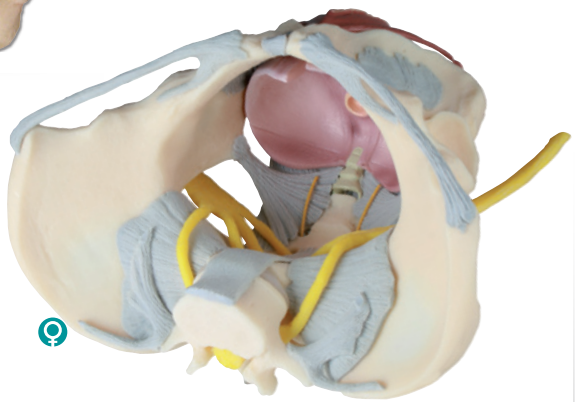
Ref.no. 4051
Details:



Ligamented female pelvis

Female Pelvis model
with ligaments. Life size.

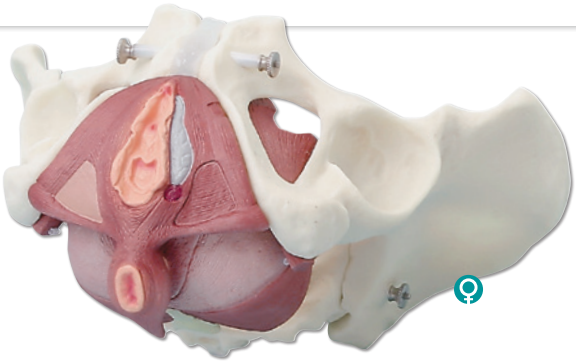
Ref.no. 4070L
Details:



Pelvis with Ligaments, Nerves and Pelvic Floor

Female pelvis with Ligaments,
Nerves and Pelvic Floor.

Ref.no. 4070B
Details:



Female pelvis with pelvic floor musculature

With 4-part collapsible pelvic floor

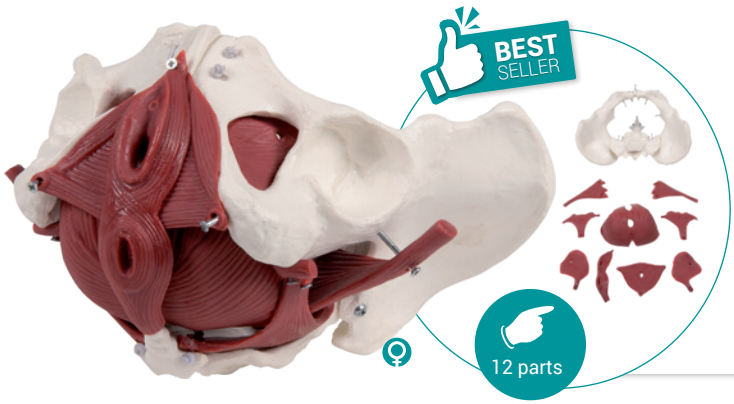
Ref.no. 4070
Details:



Male Pelvis with pelvic floor muscles

The muscle layers in this model
are in two parts.

Ref.no. 4070M
Details:



Female pelvic floor model, 12 parts

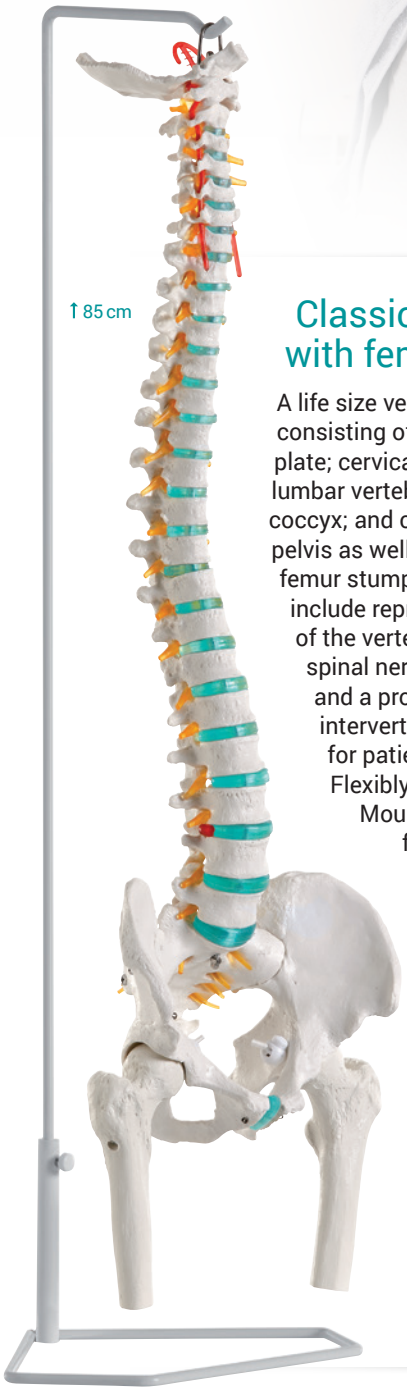
This new model of a female pelvis with pelvic floor musculature represents the pelvic floor in its layers. The muscles are fixed with pins, allowing to remove them for demonstration of the layers.

Ref.no. 4075
Details:



BEST SELLER

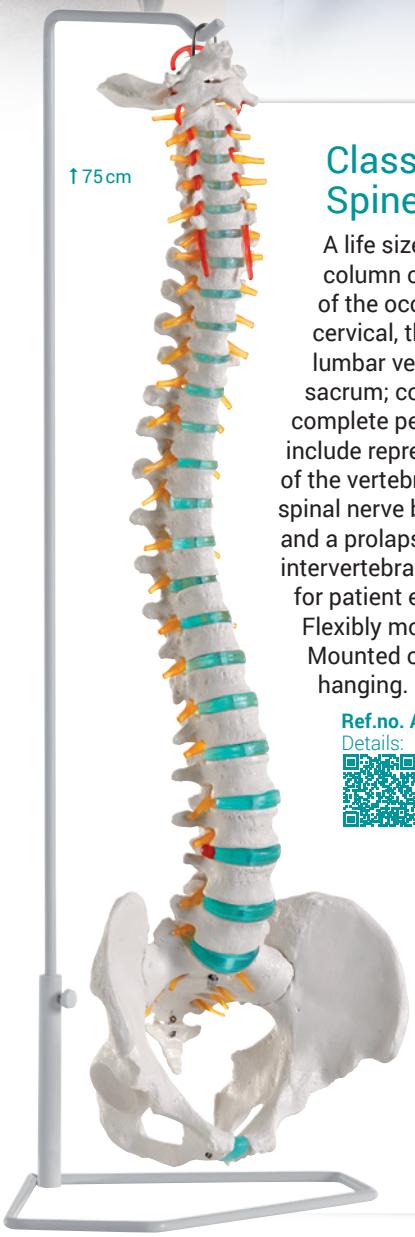
Flexible Spine



Classic Spine with femur stumps,

A life size vertebral column consisting of the occipital plate; cervical, thoracic and lumbar vertebrae; sacrum; coccyx; and complete pelvis as well as movable femur stumps.Features include representations of the vertebral arteries, spinal nerve branches, and a prolapsed L3–L4 intervertebral disc. Perfect for patient education. Flexibly mounted. Mounted on a stand for hanging.

Ref.no. A251
Details:



Classic Spine

A life size vertebral column consisting of the occipital plate; cervical, thoracic and lumbar vertebrae; sacrum; coccyx; and complete pelvis. Features include representations of the vertebral arteries, spinal nerve branches, and a prolapsed L3–L4 intervertebral disc. Perfect for patient education. Flexibly mounted. Mounted on a stand for hanging.

Ref.no. A250
Details:

ERLER-ZIMMER VERTEBRAL COLUMNS

have flexible intervertebral discs which compress on one side and expand on the other during flexion. True to life, as in human. The elastic intervertebral discs prevent an unnatural cleft from occurring between vertebra and intervertebral disc when the vertebral column is flexed. All bone components are cast from a natural vertebral column and show all the structures, fissures, foramina and processes with anatomical accuracy. In addition to this exact reproduction of the individual vertebrae, particular importance has been attached to mobility. Via the use of an unbreakable, mobile metal hose, the vertebral column has lasting flexibility and is still as movable as on the first day, even after years of intensive use.

Our most frequently sold model for training, further instruction, patient information and demonstration. Particularly suitable for manual therapy.









Flexible vertebral columns



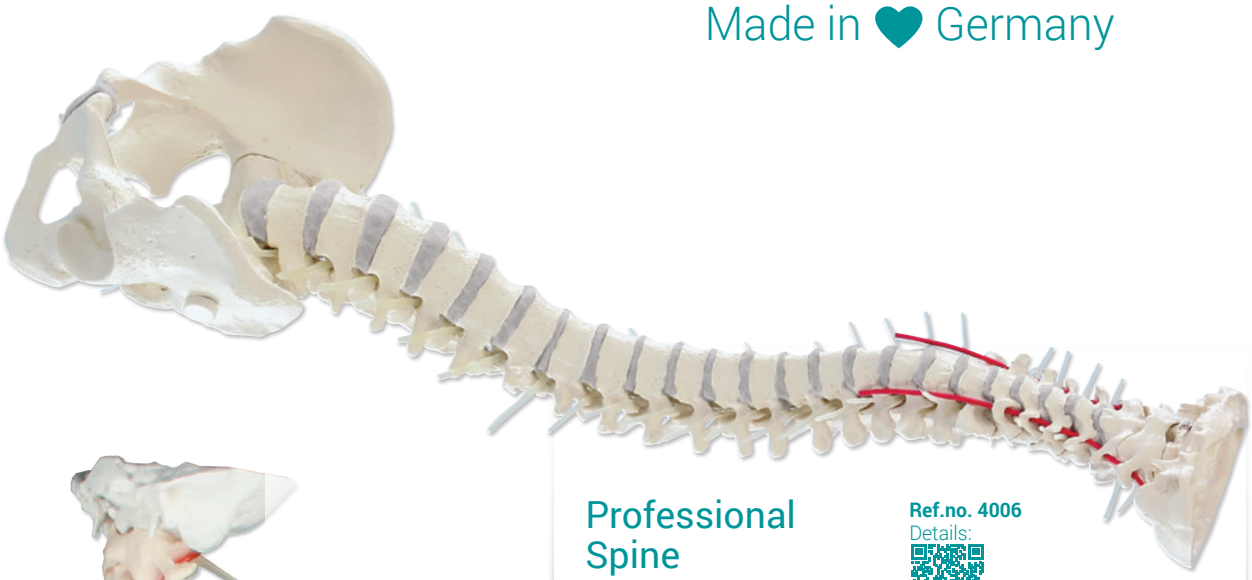
This model is capable of showing its superiority particularly in the demonstration of lordoses, kyphoses and scolioses in addition to in manual medicine.

Flexible intervertebral discs, emerging spinal nerves and the natural mobility provide a very good display of the interplay of the intervertebral disc, vertebra and nerves. The iliosacral joint is movable and the pelvis can be removed.

Owing to the elegant table stand, it is possible to leave the vertebral column in all natural positions for demonstration purposes. The optional stand is easy to fit and remove via a simple push-fit connector. The stand is easily portable and only 6 cm high.

Recommended by lecturers and course leaders!

Made in ♥ Germany

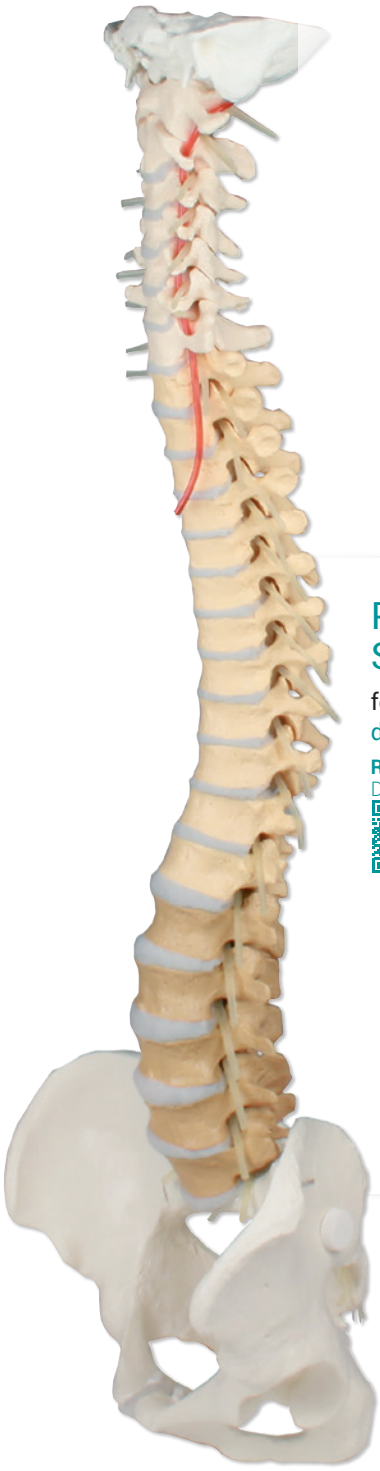


Professional Spine

for intensive use.

Ref.no. 4006
Details:

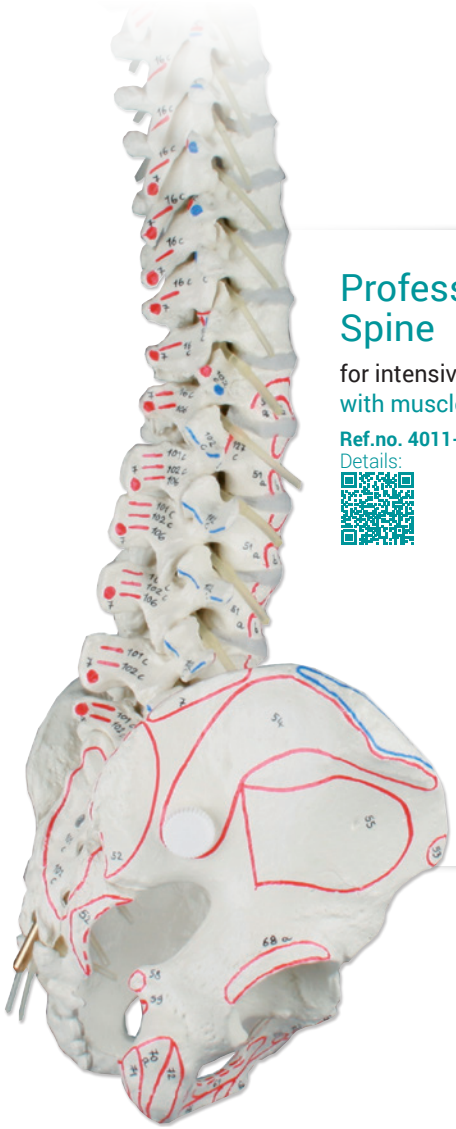
BEST SELLER



Professional Spine

for intensive use,
didactical coloured.

Ref.no. 4010-1
Details:



Professional Spine

for intensive use,
with muscle marking

Ref.no. 4011-1
Details:



TIP!
Stand for
Erler-Zimmer
Spines
Art. Nr. 4099

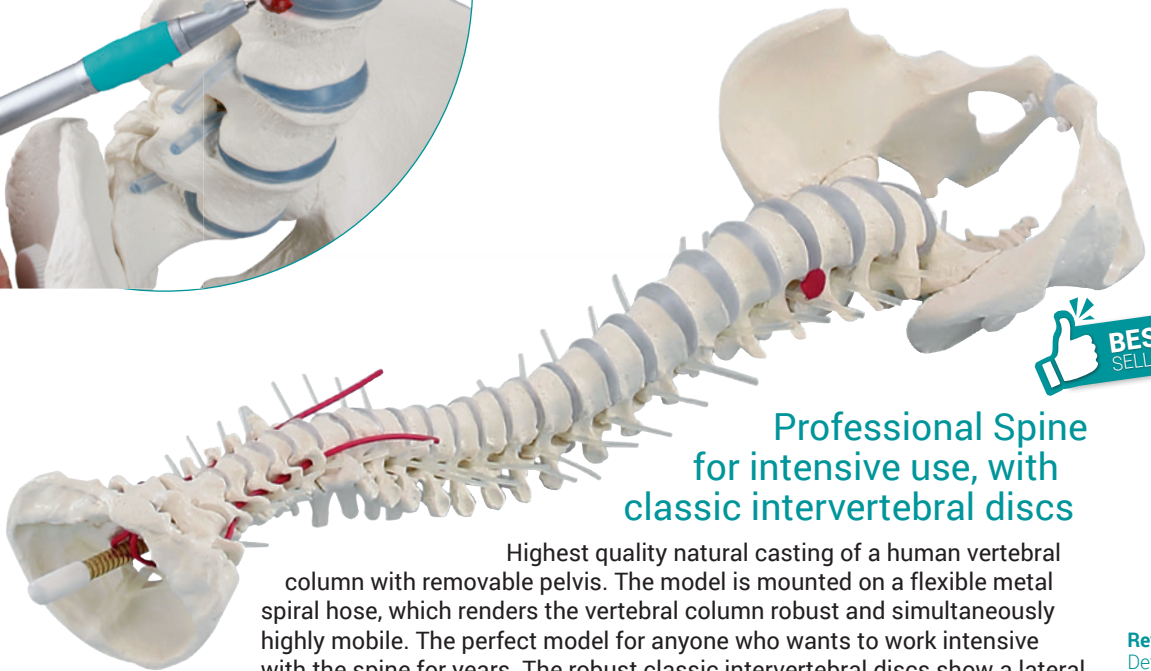


Professional Spine

for intensive use, Version with femur stumps.
The femur stumps are mounted movably and can be easily removed.

Ref.no. 4014-1
Details:





BEST SELLER

Professional Spine for intensive use, with classic intervertebral discs

Highest quality natural casting of a human vertebral column with removable pelvis. The model is mounted on a flexible metal spiral hose, which renders the vertebral column robust and simultaneously highly mobile. The perfect model for anyone who wants to work intensive with the spine for years. The robust classic intervertebral discs show a lateral prolapse between L2 and L3. The spinal nerves and vertebral artery are also represented. Without stand.

Ref.no. 4024
Details:



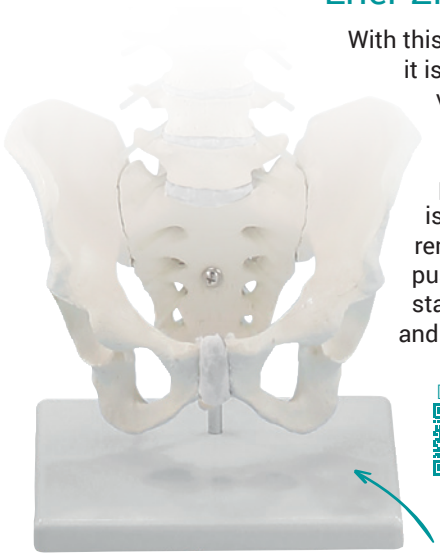


Professional Spine for intensive use, with classic intervertebral discs, Version with femur stumps

Highest quality natural casting of a human vertebral column with removable pelvis. The model is mounted on a flexible metal spiral hose, which renders the vertebral column robust and simultaneously highly mobile. The perfect model for anyone who wants to work intensive with the spine for years. The robust classic intervertebral discs show a lateral prolapse between L2 and L3. The spinal nerves and vertebral artery are also represented. With removable and articulating femur stumps. Without stand.

Ref.no. 4033-1
Details:

Stand for Erler-Zimmer Spines



With this elegant table stand, it is possible to leave the vertebral column in all natural positions for demonstration purposes. The stand is easy to fit and remove via a simple push-fit connector. The stand is easily portable and only 6 cm high.

Ref.no. 4099
Details:



Miniature Spinal Column

Scaled down model of the human spinal column, approx. ½ life size. With plug-on stand.

Ref.no. 4001
Details:

Miniature Spinal Column on hanging stand

Reduced size model of a human spine in about ½ life size. On hanging stand.

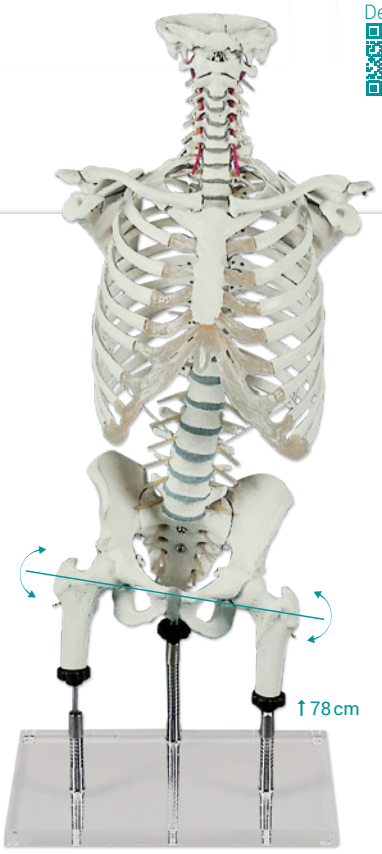
Ref.no. 4002
Details:



Vertebral column

for demonstration of malpositions. The femurs can be raised and lowered respectively and unilateral shortening of the leg and the resulting pelvic inclination can be simulated.

Ref.no. 4017
Details:



Vertebral column

for demonstration of malpositions (according to Zilgrei). Specially developed for Zilgrei training, but also suitable for physiotherapy, massage and music teaching institutions and for orthopaedics.

Ref.no. 4018
Details:



Vertebral column with thoracic cage

Mounting of the rib cage (thorax) with the shoulder girdle allows explanation of the combination of movements of the vertebral column and thoracic cage during breathing.

Ref.no. 4020
Details:



Lumbar vertebral column

With dorsolateral prolapse. With stand.

Ref.no. 4036
Details:



with pelvis

With dorsolateral prolapse. With stand.

Ref.no. 4040
Details:

Lumbar vertebral column with pelvis and femur stumps

With dorsolateral prolapse. With stand.

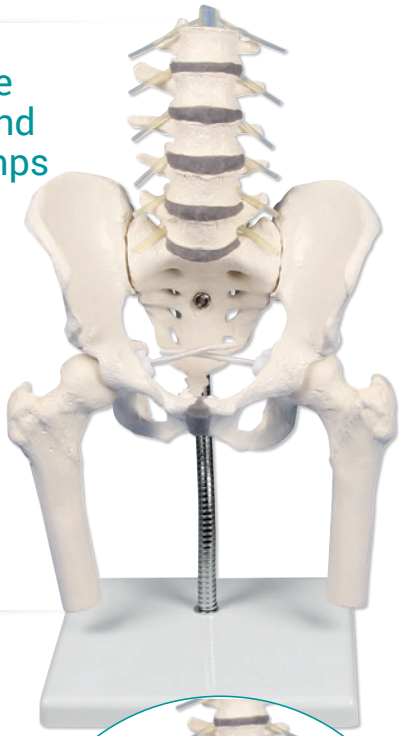
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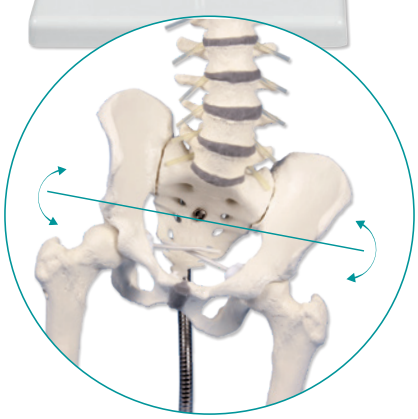


Lumbar spine with pelvis and femoral stumps

for demonstration of malpositions.
With flexible stand, allowing demonstration of malpositions e.g. one-sided shortening of the leg.

Ref.no. 4045G
Details:





Pelvis, lumbar spine and lumbar mucles

Model showing superficial, deeper and deep musculature of the lumbar spine.

Ref.no. 4050
Details:

With spinal cord and nerves







Cervical vertebral column

C1 to C7 and a segment of the skull are flexibly mounted. With stand.

Ref.no. 4073

Details:

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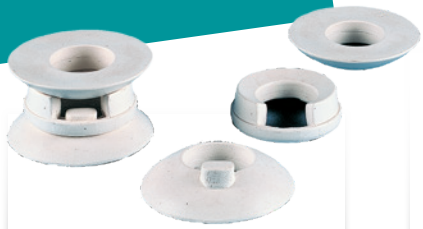
Cervical spine with neck musculature

This cervical spine shows deeper muscle layers. On base.

Ref.no. 4034

Details:

HEAD ARTICULATIONS



schematic

Schematic representation of the head joints demonstrating the movements in the atlantooccipital articulation and atlanto-axial articulation.

Ref.no. 4079

Details:



2x enlarged

With this unique model in double life size all movements in the atlanto-occipital and atlantoaxial articulation can be demonstrated admirably. With stand.

Ref.no. 4083

Details:



natural size

With this unique model in life size all movements in the atlanto-occipital and atlantoaxial articulation can be demonstrated admirably. With stand.

Ref.no. 4080

Details:



Vertebra collection, 8 vertebrae

2 lumbar vertebrae, 2 thoracic vertebrae, 2 cervical vertebrae as well as atlas and axis. On stand, mounted with intervertebral discs.

Ref.no. 4097

Details:



Without stand. Loose on Rubber.

Ref.no. 4098

Details:



2 lumbar vertebrae

elastically mounted.

Ref.no. 4090
Details:



3 thoracic vertebrae

elastically mounted.

Ref.no. 4092
Details:



Thoracic vertebral column

Th1 to Th12 are flexibly mounted. With stand.

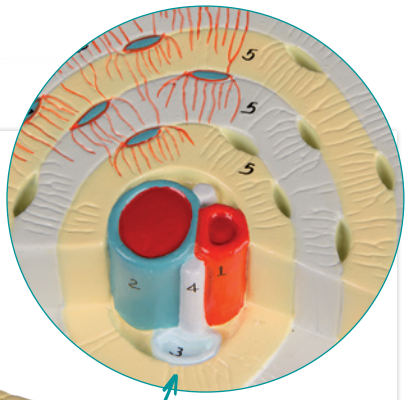
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Details:



Vertebral column

loose on rubber

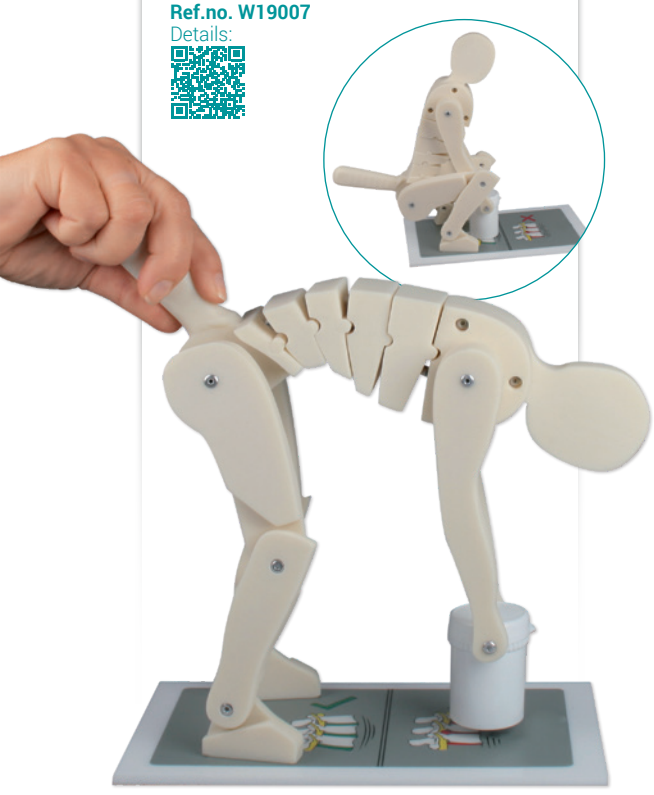
Ref.no. 4094
Details:



Demonstration figure

“correct and wrong lifting”

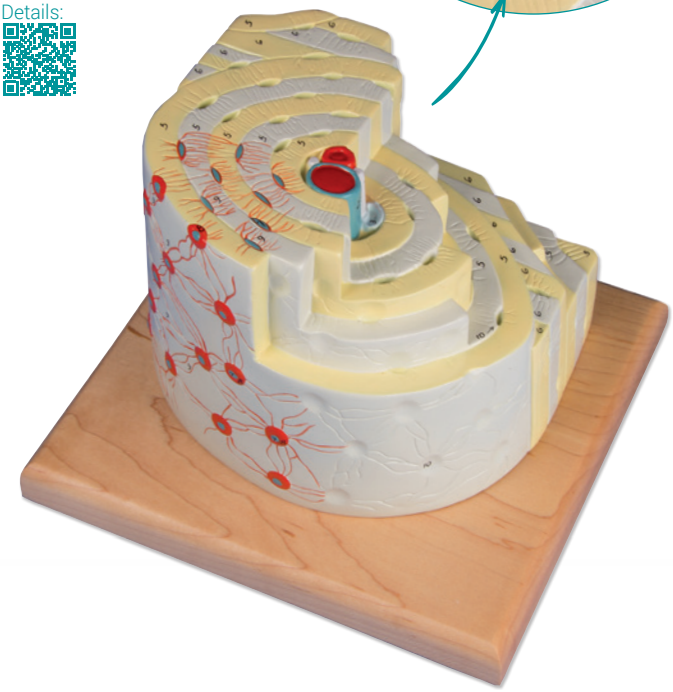
Ref.no. W19007
Details:



Bone structure model

500times life size.
Compact bone magnified approximately 500 times

Ref.no. A92
Details:

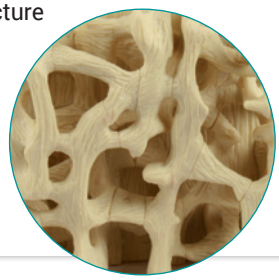




Healthy / osteoporotic bone structure comparison model

This model shows healthy structure on one side and osteoporotic changes on the other side.

Ref.no. 4062
Details:

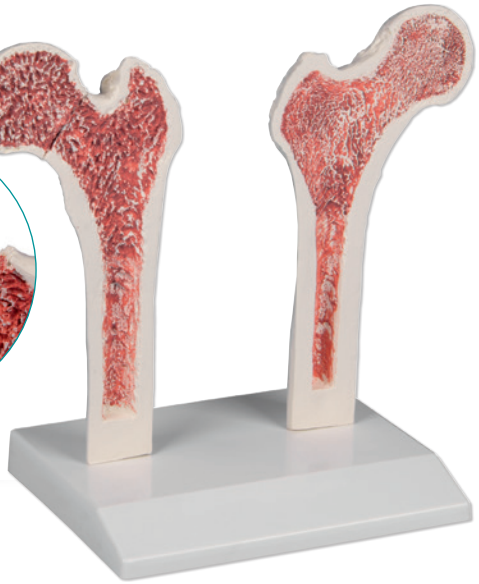


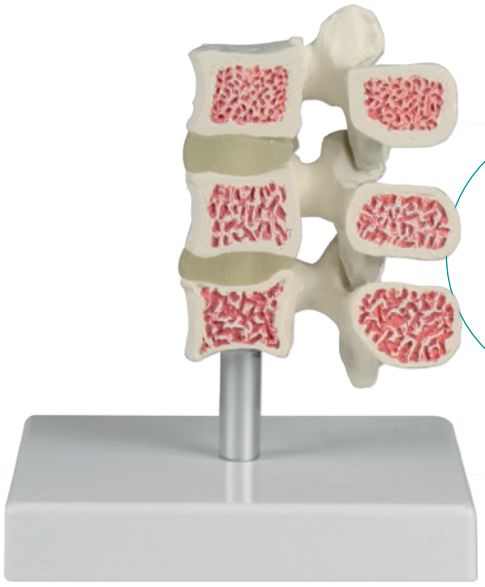
Osteoporosis Femur

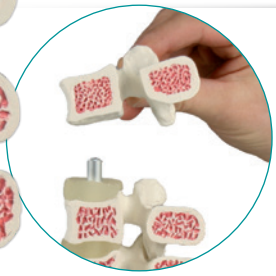
This model shows the difference between a normal and osteoporotic femur.

Ref.no. 4030
Details:





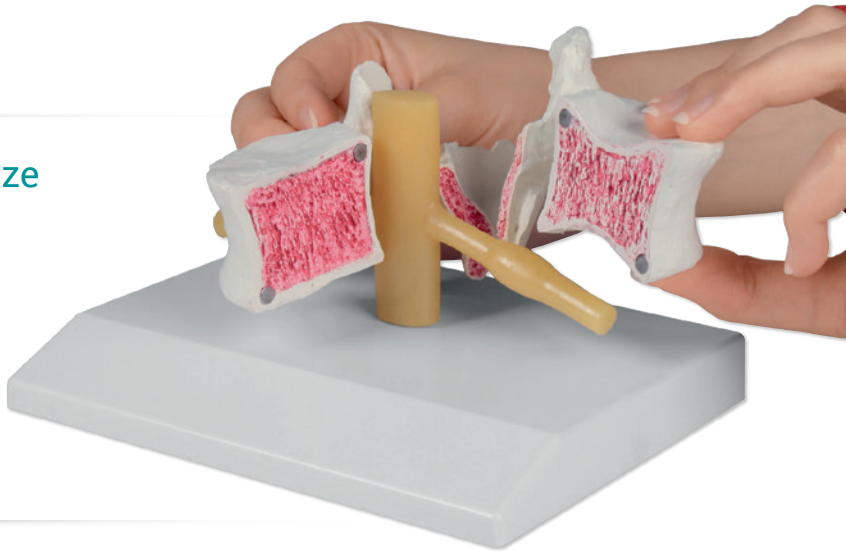




Osteoporosis vertebrae model, 3 vertebrae

This model consists of three medially cut lumbar vertebrae with intervertebral discs.

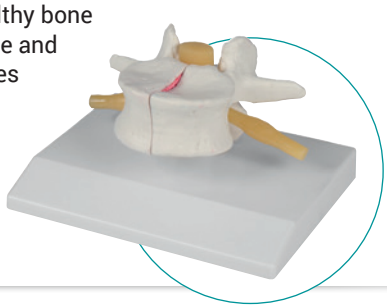
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Details:

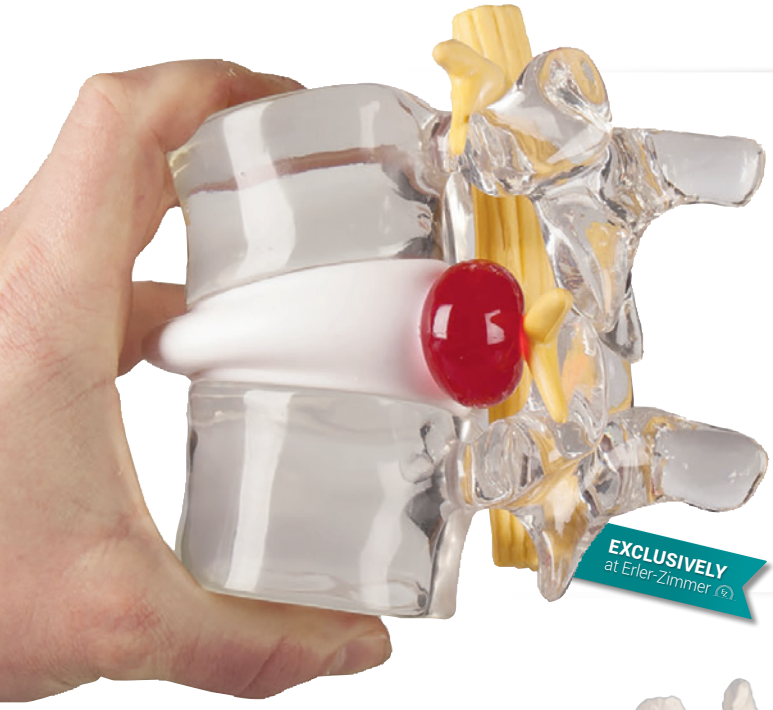


Osteoporosis vertebra, 2 times life size

This model of a human lumbar vertebra shows healthy bone structure on one side and osteoporotic changes on the other side.

Ref.no. 4068
Details:





Herniated disc simulator

This model of two lumbar vertebrae in about double life size has the opportunity to demonstrate a lateral intervertebral disc hernia. If the two vertebrae are pressed together, the inner core of the disc will be protruding to the outside, forming a hernia.

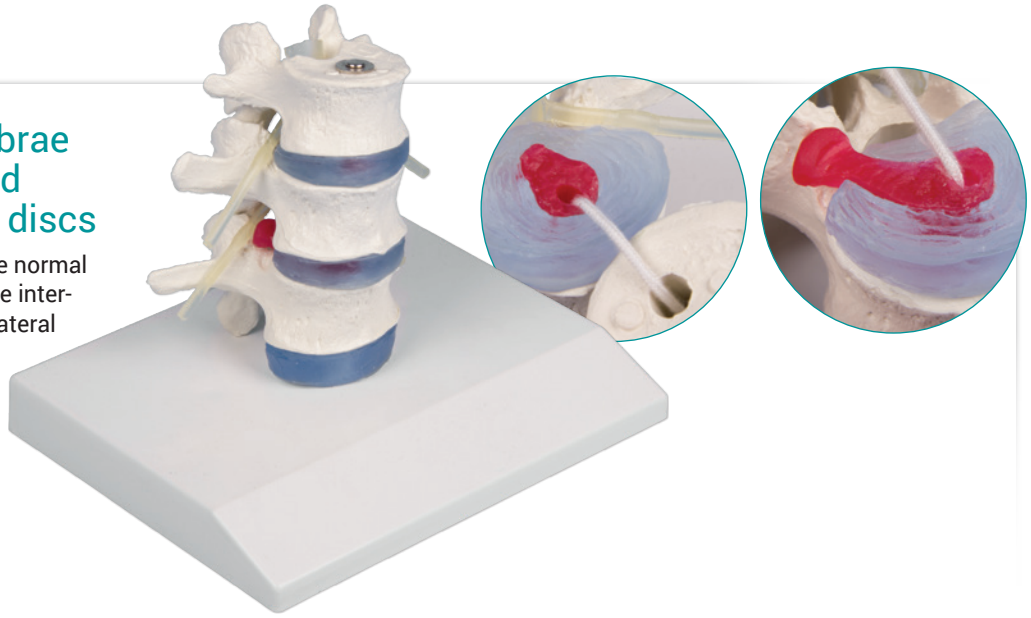
Ref.no. 4400
Details:



Lumbar vertebrae with prolapsed intervertebral discs

This model shows one normal intervertebral disc, one intervertebral disc with a lateral prolapse and one intervertebral disc with a medial prolapse. With stand.

Ref.no. 4047
Details:



Stages of Disc Degeneration

This model shows the normal condition, slight disc damage, prolapse with bone degeneration and advanced bone and disc degeneration.

Ref.no. 7577
Details:

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