

Sectional Brochure





Training technicians in the use of radiography equipment requires both accuracy and durability.

The Phantom Laboratory's Sectional Phantoms are constructed around natural human bone and feature our exclusive RANDO® material, a specially formulated urethane which accurately simulates the density of human tissue. This material not only duplicates the body's x-ray absorbency, atomic number and specific gravity; it is also extremely durable, capable of withstanding virtually unlimited handling and impact without damage.

H e a d | the skull and upper cervical vertebrae are cast into the head phantom with an internal air cavity to represent the oral, pharynx and trachea anatomy.

S k u l l | a less expensive version of the Head Phantom that does not contain the upper cervical vertebrae.



T h o r a x | contains the chest and shoulder skeletal structures including the upper third of the humerus. The lungs' lower density is duplicated with a special RANDO® derivative which has an atomic number and specific gravity of human lungs at a median respiratory state. This material is hand-formed to the contours of the rib cage.

Sectional Phantoms can be purchased individually or in money saving sets. Only Sectional Sets are shipped in permanent painted plywood storage cases.

**L o w e r
T o r s o**

contains the lumbar vertebrae, pelvis and upper third of the femur. A hollow cavity reproduces the interior of the sigmoid flexure with diverticulum and rectum. This cavity is connected to the surface by a duct which is sealed with an o-ring screw cap. The cavity may be filled with contrast media. (It is not discernible when filled with water.)



L / R

H a n d s

contain the lower third of the radius and ulna along with the carpal, metacarpal and phalanx bones. The left hand is pronated and the right hand is relaxed.





L / R

Elbows

contain the lower third of the humerus and the upper third of the radius and ulna. The right elbow has 90° flexion and the left elbow is extended.





L / R

K n e e s

contain the lower third of the femur, the upper third of the fibula and tibia, and the patella. The right knee has 90° flexion and the left knee is extended.

L / R

F e e t

contain the lower third of the fibula and tibia along with the tarsal, metatarsal and phalanx bones. The left foot is relaxed and the right foot is in plantar flexion.



The Phantom Laboratory manufactures a wide variety of high-precision phantoms for evaluating the performance of medical imaging and radiation therapy equipment. Please contact us for additional information or go to www.phantomlab.com

M a g p h a n ®



Designed to perform a wide range of precision performance evaluations of Magnetic Resonance Imaging (MRI) Scanners

S p e c p h a n ®



Test tool for Single Photon Emission Computed Tomography (SPECT) and Coincidence Detection Systems

R A N D O ® P h a n t o m



Comprehensive verification of the complete treatment planning sequence

R S V P P h a n t o m ™



Provides stereotactic localization and dose verification for radiosurgery machines

**P h a n t o m
P a t i e n t TM**



A full-body phantom with the dimensions of an average-size male patient, indispensable for training technicians in the use of radiography equipment

C a t p h a n [®]



For detailed evaluation of axial, spiral, multi-slice and cone beam CT scanner image quality

**L i q u i - P h i l TM
P h a n t o m s**



Hollow phantoms that can be filled with liquid for nuclear medicine and MRI studies

**C u s t o m &
O E M P h a n t o m s**

Designed and manufactured to order.
Call for details



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