CT Whole Body Phantom PBU-60

Product No. PH-2B

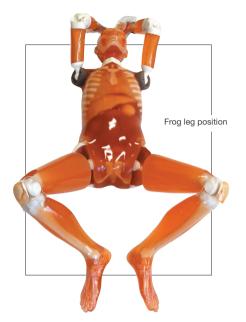
Available in Summer 2009 *Specifications are subject to change.



www.kyotokagaku.com rw-kyoto@kyotokagaku.co.jp

Head Office: 15 Kitanekoya-cho, Fushimi-ku, Kyoto, 612-8388, JAPAN Tel: +81-75-605-2510 Fax: +81-75-605-2519 USA Office: 3109 Lomita Boulevard, Torrance, CA 90505-5108, USA Tel: 1-310-325-8860 Fax: 1-310-325-8867

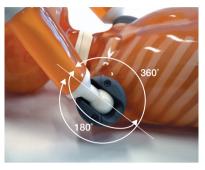
Main joints have close-to human articulation, allowing various positioning for training.



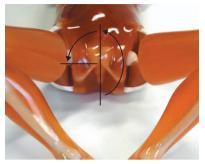
The phantom can be disassembled

into 10 parts.

Improved shoulder joint system enables PBU-60 to take arm-up position.



Shoulders: rotate through a full 360 degrees in the sagittal plane, approx. 180 degrees to side-ways.



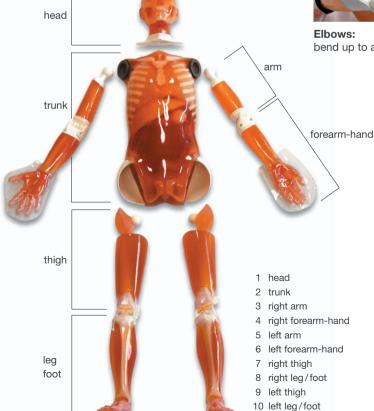
Hip joints: rotate forward up to approx. 90 degrees, then abduct up to 45 degrees each.



Elbows: bend up to approx. 90 degrees.



Knees: bend up to approx. 90 degrees.





An adjustable head supporter comes with the set, facilitating various head position setting.

KYOTO KAGAKU

www.kyotokagaku.com rw-kyoto@kyotokagaku.co.jp

Organs are anatomically correct and have appropriate HU numbers.



Internal Organs Head Synthetic skull Cervical vertebrae Brain Cerebrum Mesencephalon Cerebellum Cerebral ventricles Arteries with contrast medium (left half only)















3D reconstruction of CT data

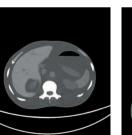
Internal Organs

Trunk

Rectum Sigmoid Colon

Vertebrae Clavicles Ribs Sternum Scapula Coxal bones Femurs Lungs with pulmonary vessels (up to third bifurcations) Trachea (up to fourth bifurcations) Liver with portal and hepatic veins Kidneys Gallbladder Spleen Aorta Cava Ureter Urinary bladder Prostate













Materials and features:

Soft tissue and organs: Urethane base resin (SZ-50)

Synthetic bones: Epoxy base resin

Joint attachments: Epoxy, urethane with carbon fiber

Screws: Poly carbonate

Soft tissue (SZ-50) material

Material	Density g/cm3	Effective Atomic	Electron Density	Elemental Composition (wt%)			
		Number	x10~23e/g	Н	С	N	0
Water	1.000	7.417	3.343	11.19			88.81
SZ-50	1.061	6.14	3.258	8.41	72.25	4.61	14.73
		•	•				

	Soft tissue	Liver	Kidneys	
Hounsfield number (Approximation)	-7	70	30	
Density g/cm3	1.061	1.089	1.075	

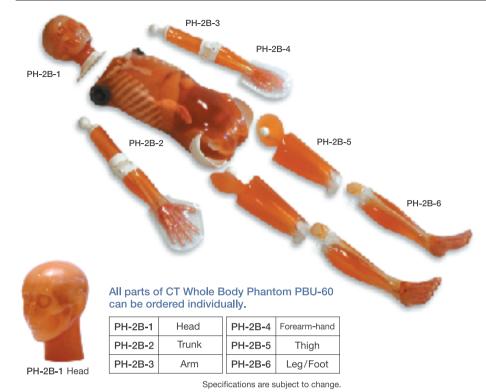


KYOTO KAGAKU

www.kyotokagaku.com rw-kyoto@kyotokagaku.co.jp

CT Whole Body Phantom PBU-60

Product No. PH-2B



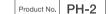
Set Includes:

- 1 whole body phantom PBU-60 *provisional name (separable into 10 parts) Synthetic bones and organs listed on the page 8 are embedded
- 1 head supporter
- 1 set of replacement joint connectors and screws (1 piece for each)
- 1 flat head screwdriver
- 1 set of sample X-ray films

phantom size: approx. 165 cm height phantom weight: approx. 50 kg packing size: approx. 85 x 60 x 44 cm two-pack packing weight: approx. 80 kg

Specifications are subject to change.

Whole Body Phantom **PBU-50**





СТ

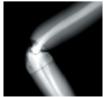


PLAIN X-RAY











The Whole body phantom PBU-50 is a life-size, full body anthropomorphic phantom with a state-of-the-art synthetic skeleton, lungs, liver, mediastinum and kidneys embedded in KYOTOKAGAKU original soft tissue substitute. Movable joints allow basic positioning for plain X-ray and training/research applications can be enriched by disassembling the phantom into 10 individual parts (head, limbs and trunk). There are no metal parts or liquid structures.

Anatomy:

Life size synthetic skeleton Hands and feet with bone trabeculae Lungs with pulmonary vessels Mediastinal space Liver Kidneys

phantom size: approx. 165 cm height phantom weight: approx. 50 kg packing size: approx. 85 x 60 x 44 cm two-pack packing weight: approx. 80 kg

Specifications are subject to change.



www.kyotokagaku.com rw-kyoto@kyotokagaku.co.jp