

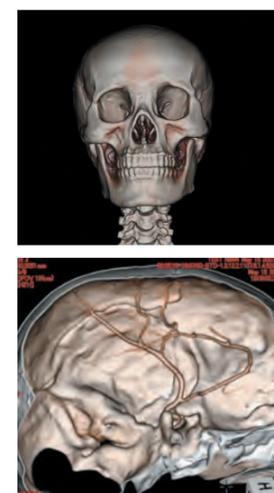
CT Whole Body Phantom PBU-60

Product No. PH-2B

A unique, life size whole body phantom for CT provides a variety of educational application as well as visual evaluation in finding out optimal scanning conditions. The phantom can also be used for plain X-ray, showing life-like images. No metal parts or liquid structure are used.



Full internal organs for CT scanning with appropriate HU numbers.



Incorporated Anatomy

Internal Organs

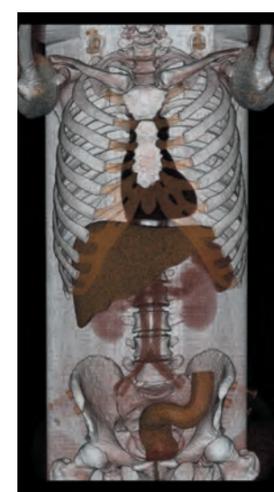
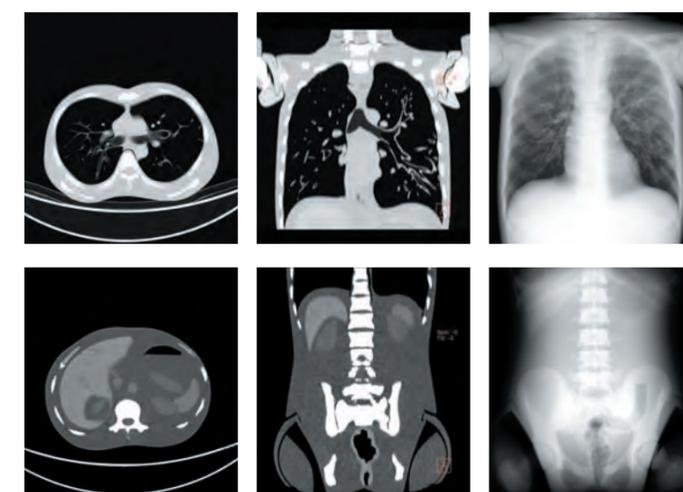
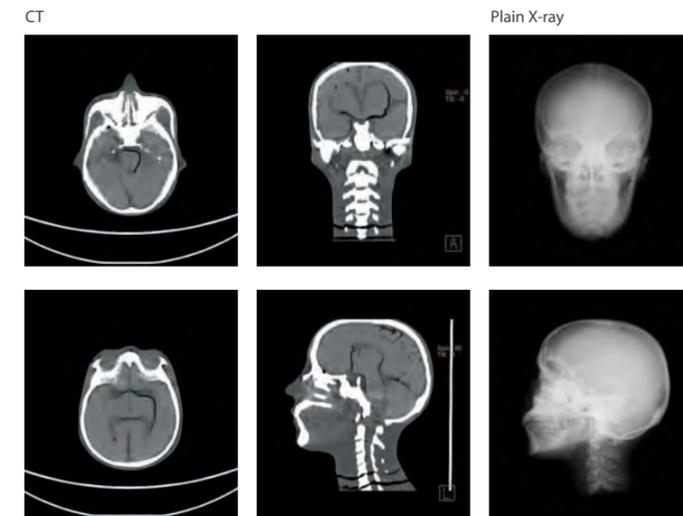
Head

- Synthetic skull
- Cervical vertebrae
- Brain
- Cerebrum
- Mesencephalon
- Cerebellum
- Cerebral ventricles
- Eye balls
- Arteries with contrast medium (left half only)

Internal Organs

Trunk

- 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
- Pancreas
- Kidneys
- Gallbladder
- Spleen
- Aorta
- Cava
- Ureter
- Urinary bladder
- Prostate
- Rectum
- Sigmoid Colon



3D reconstruction of CT data

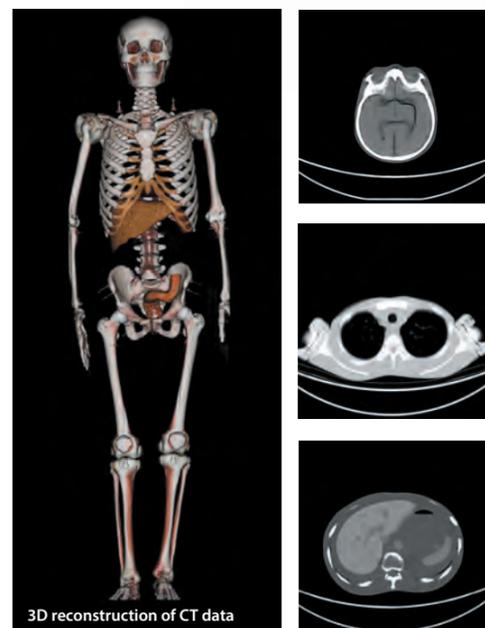
Materials and features:

- 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

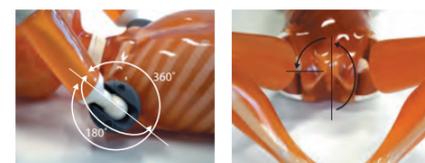
Material	Density g/cm3	Effective Atomic Number	Electron Density x10 ⁻²³ e/g	Elemental Composition (wt%)			
				H	C	N	O
Water	1.000	7.417	3.343	11.19			88.81
SZ-50	1.061	6.14	3.258	8.41	72.25	4.61	14.73
				Soft tissue		Liver	
Hounsfield number (Approximation)						Kidneys	
Density g/cm3				1.061		1.075	

Whole Body CT



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

Improved shoulder joint system to take arm-up position.



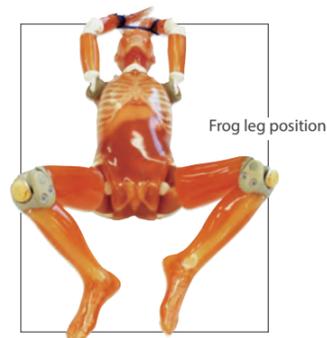
Shoulders: rotate through a full 360 degrees in the sagittal plane, approx. 180 degrees to side-ways.

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.



Frog leg position