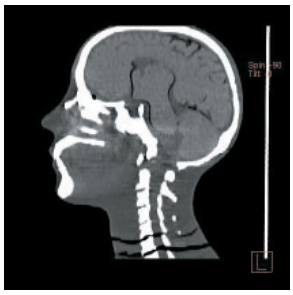
PH-2B | 41350-200

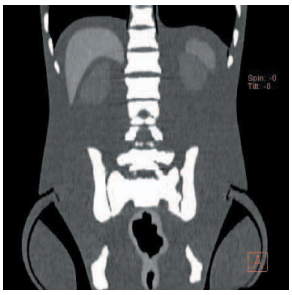
CT Whole Body Phantom "PBU-60"

CT X-ray

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

SHOW MORE!





FEATURES

- The phantom includes full internal organs with close-to-human HU for each.
- Radiology absorption and HU number approximate to human body
- Main joints have close-to human articulation
- Phantom can be disassembled into 10 individual parts

APPLICATIONS

- CT
- Plain X-ray
- Basic patient positioning

ANATOMY

Full internal organs

Bony structure
Synthetic skull
Cervical vertebrae
Vertebrae
Clavicles
Ribs
Sternum
Scapula
Coxal bones
Femurs

Internal organs	HU number at 80KeV
Brain	
Cerebrum	40
Mesencephalon	40
Cerebellum	40
Cerebral ventricles	10
Eye balls	20
Arteries with contrast medium (left half only)	250
Lungs	-1000
Pulmonary vessels	8
Trachea	trachea wall: 8 / inside: -1000
Heart	PBU-50: 8 / PBU-60: 40
Liver	70

Internal organs	HU number at 80KeV
Portal and hepatic veins	40
Pancreas	30
Kidneys	30
Gallbladder	20
Spleen	50
Seminal vesicle	25
Aorta	40
Cava	70
Ureter	ureteral wall: 30 / inside: 10
Urinary bladder	10
Prostate	50
Rectum	rectum wall: 70 / inside: -800
Sigmoid Colon	colon wall: 70 / inside: -800

DESCRIPTIONS

SET INCLUDES

1	whole body phantom	1	hand-fixture belt
1	flat head screwdriver		

SPECIFICATIONS

Phantom height:
165 cm
65 in

Phantom weight:
50 kg / 110 lb

Packing size:
W92×D57×H38 cm / W36×D22×H15 in
W90×D63×H22 cm / W35×D25×H8.7 in
W89×D57×H16 cm / W35×D22×H6.3 in

Packing weight:
80 kg / 176 lb

MATERIALS

Soft tissue: urethane based resin (density: 1.06)
Synthetic bone: epoxy resin (density: 1.31)
Skull: epoxy resin (density: 1.11)
*Phantom has no metal parts or liquid structure

OPTIONAL PARTS

41363-070	storage cases (consist of 2 boxes)
41350-200-16	body plates for PH-2/2B (BMI 32)
41350-200-17	body plates for PH-2/2B (BMI 40)

PUBLICATION REFERENCES

Kim, S., & Jung, H. (2013). A Study on Performance of Low-Dose Medical Radiation Shielding Fiber (RSF) in CT Scans. International Journal of Technology, 4(2), 178-187. doi:10.14716/ijtech.v4i2.107

Storage case P.31