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Dynamic Thorax Phantom

Item No. PH-39
Weight
Brand KYOTO KAGAKU, JAPAN

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SKU:

Categories: Radiology Phantom



Product Description

Anthropomorphic chest phantom for respiratory gating

Features

Training skills / Applications

Set includes

Packing size (approx.)

TLD can be inserted to simulate the nodule Six preset respiratory patterns are prepared and can be modified and saved Up to three different respiratory patterns can be run in sequence

CT

1 drive unit(chest phantom, mediastinum phantom with right pulmonary vessels, nodule rotation unit / 1 diaphragm block / 1 set of simulated nodules / 1 controller / 1 storage case / 1 manual

W103 x D70 x H37 cm / W40.6 x D27.6 x H14.6 in

Power source

AC110V-240V 50/60Hz

Materials

Urethan resin

Publication references

Ching-Yi Hsieh, Gregory Gladish, and Charles E. Willis, Evaluation of a commercial cardiac motion phantom for dual-energy chest radiography, Journal of Applied Clinical Medical Physics,

CONTROLLABLE PARAMETERS

Respiratory rate: 6-24 cycles/min. / Movement of diaphragm: 0-38 mm/0-1.5 in Linearly movement of nodule unit: 38- 64 mm/ 1.5-2.5 in / Rotation of nodule unit: 50-70 degrees

CE certified/CE Certification?

No

Update

July 5, 2020

Why Choose the Dynamic Thorax Phantom for Respiratory-Gated CT Training in India?

The Dynamic Thorax Phantom (Item No. PH-39, Brand: Kyoto Kagaku, Japan) is an anthropomorphic chest phantom purpose-built for respiratory gating CT training and research. A TLD (thermoluminescent dosimeter) can be inserted to simulate the nodule for dose measurement. Six preset respiratory patterns are included and can be modified and saved, with up to three different patterns run in sequence for varied training scenarios.

Training applications:

- CT (respiratory gating)

Set includes: 1 drive unit (chest phantom, mediastinum phantom with right pulmonary vessels, nodule rotation unit), 1 diaphragm block, 1 set of simulated nodules, 1 controller, 1 storage case, 1 manual.

Controllable parameters:

- Respiratory rate: 6-24 cycles/min
- Diaphragm movement: 0-38mm (0-1.5in)
- Nodule linear movement: 38-64mm (1.5-2.5in)
- Nodule rotation: 50-70 degrees

Specifications:

- Packing size approx. W103×D70×H37cm (W40.6×D27.6×H14.6in)
- Power source: AC110V-240V, 50/60Hz (compatible with Indian mains)
- Materials: Urethane resin
- CE Certification: Not CE certified

Backed by published research: This phantom design is referenced in peer-reviewed literature —

Hsieh, Gladish, and Willis, "Evaluation of a commercial cardiac motion phantom for dual-energy chest radiography," Journal of Applied Clinical Medical Physics.

Why Buy from SEM Trainers? SEM Trainers & Systems is an authorized distributor of Kyoto Kagaku products in India with over 30 years of experience supplying radiology and respiratory-gating CT training equipment to 1,500+ institutions across 28 states. We provide pan-India delivery and dedicated after-sales support.

Frequently Asked Questions

Q: How many respiratory patterns can this phantom simulate? A: Six preset patterns are included and can be modified and saved, with up to three run in sequence during a single training session.

Q: Is this phantom CE certified? A: No — please confirm current certification requirements with your institution's procurement guidelines before including this in a tender-based purchase.

Q: How do I order from SEM Trainers? A: Contact us at sem@semtrainers.com or call +91-88495 63724 for pricing and availability.