

Interchangeable Inserts to Increase IGRT and Gated QA Test Capabilities

With additional inserts from Modus QA the QUASAR™ Respiratory Motion Phantom is capable of performing a wide range of applications including; planning system QA, dose distribution measurement for both neutral density and lung density material, 4D CT imaging, and 4D PET CT imaging.

Optional Inserts

KEY FEATURES

- ▶ Wide range of flexible and cost-effective inserts
- ▶ Quickly remove and easily replace interchangeable inserts
- ▶ Compatible with both the QUASAR Respiratory Motion Phantom and Motion Assembly (P/N: 100-1011 & 100-1012)

LUNG DENSITY MATERIAL INSERTS



- A** Cedar Lung Tumour Insert (for Gafchromic film) Centered 500-3313 2D Dose Distribution in and around a Tumour within Lung Density Material
- B** Offset Cedar Lung Tumour Insert (for Gafchromic film) Offset 500-3333 for use with Rotation Stage

Imaging of a Tumour within Lung Density Material

Cedar Insert with Solid Tumour-without drilling
 (for imaging only)

P/N: 500-3311 (Centered)
 P/N: 500-3331 (Offset)



Cedar Insert (drilled)
 P/N: 500-3395 (Centered)
 P/N: 500-3335 (Offset)



Chamber Dosimetry within Lung Density Material

Split Cedar Insert (CyberKnife)
 P/N: 500-3316 (Centered)
 P/N: 500-3336 (Offset)



Opening for 32 mm Ball Cube.

Chamber Dosimetry in a Tumour within Lung Density Material

Cedar Insert with Solid Tumour-drilled

P/N: 500-3312 (Centered)
 P/N: 500-3332 (Offset)

Acrylic Insert
P/N: 500-3305



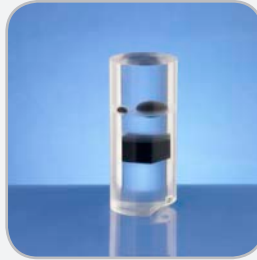
*Ion Chamber
Measurements in Neutral
Density Material*

**Film Cassette
(any film)**
P/N: 500-3315



*2D Dose Distribution
Measurement in Neutral
Density Film size: 6x15cm*

**4D CT
Imaging Insert**
P/N: 500-3317



*Acquisition, Reconstruction
and Display*

**4D PET CT
Imaging Insert**
P/N: 500-3318



*Acquisition, Reconstruction,
Display and Registration
30 mm Sphere*

**Hollow Insert with
Screw Cap**
P/N: 500-3314



*Fill with liquid or gel for
user-specific tasks*

SPECIFICATIONS

- ▶ Each Insert is 8 cm diameter x 18 cm long
- ▶ Acrylic inserts approximately 900 grams
- ▶ Cedar inserts are made of select cedar, free of knots, but with variable properties inherent in the nature of solid wood
- ▶ 4D CT Imaging Insert contains Delrin® objects, Film Cassette contains steel pins and all have a small magnetic clasp
- ▶ Customized inserts are available upon request

ORDERING INFORMATION

- 500-3305: Acrylic Insert
 500-3311: Cedar Insert with solid tumor
 500-3312: Cedar Insert with solid tumor (drilled)
 500-3313: Cedar Lung Tumor Insert (split)
 500-3314: Hollow Insert with screw cap
 500-3315: Film Cassette
 500-3317: 4D CT Imaging Insert
 500-3318: PET CT Insert
 500-3322: MP Insert Adapter
 500-3395: Cedar Insert (drilled)

OPTIONAL ACCESSORIES

- 500-3330: Rotation Stage for 3D motion

ADDITIONAL INSERTS (Requires Rotation Stage)

- 500-3331: Offset Cedar Insert with solid tumor
 500-3332: Offset Cedar Insert with solid tumor (drilled)
 500-3333: Offset Cedar Lung Tumor Insert (split)
 500-3335: Offset Cedar Insert (drilled)



MP Insert Adapter
P/N: 500-3322

*Modifies the inserts to
enable stationary testing
in the QUASAR™ Multi-
Purpose Body Phantom*



Above: *The QUASAR Respiratory Motion Phantom with Rotation Stage enables cylindrical inserts to rotate as they translate with a 60° total range of motion (± 30° from the horizontal).*

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