



# Interchangeable Inserts to Increase IGRT & Gated QA Test Capabilities

## Optional Inserts

### KEY FEATURES

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

With additional inserts from Modus Medical Devices 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.

### 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*

*Chamber Dosimetry in a Tumour within Lung Density Material*



**Cedar Insert with Solid Tumour-without drilling**  
(for imaging only)  
(Centered P/N: 500-3311,  
Offset P/N: 500-3331)

**Cedar Insert with Solid Tumour-drilled**  
(Centered P/N: 500-3312,  
Offset P/N: 500-3332)

*Chamber Dosimetry within Lung Density Material*

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



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



**MP Insert Adapter**  
(P/N: 500-3322)

**Acrylic Insert**  
(P/N: 500-3305)



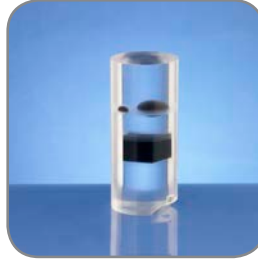
*Ion Chamber Measurements in Neutral Density Material*

**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
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**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)



**Above:** The Respiratory Motion Phantom with Rotation Stage features a moving cylindrical insert in a body shaped phantom. Motion occurs in the superior - inferior direction with variable speed and amplitude, and with manual or fully programmable controls.

**CONTACT INFORMATION**

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