

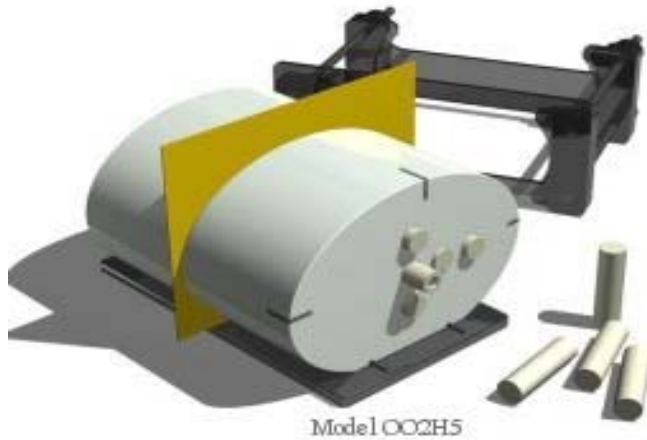
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IMRT Phantom

Homogeneous

*Complete QA
from CT Imaging
to Dose Verification*

The CIRS Model 002H5 IMRT Phantom for Film and Ion chamber Dosimetry is designed to address the complex issues surrounding commissioning and comparison of treatment planning systems while providing a simple yet reliable method for verification of individual patient plans and delivery.

The 002H5 is homogeneous and elliptical in shape. It properly represents human anatomy in size and proportion. It measures 30cm long x 30cm wide x 20cm thick (PA). The phantom is manufactured from a unique proprietary material that faithfully mimics water within 1% from 50keV to 25 MeV.

Water equivalent interchangeable rod inserts accommodate ionization chambers allowing for point dose measurements in multiple planes within the phantom. The phantom also supports radiographic or GafChromic® film at mid-plane in the phantom for analysis of dose distributions. Optional inserts are available to support a variety of other detectors including TLD's, MOSFET, and diodes.

Handling, assembly and proper orientation of the phantom is made easy with the use of a unique alignment base and holding device. The surfaces of the phantom are etched for ease of laser alignment, and CT markers ensure accurate film to plan registration.

Phantom Benefits

- check 2D dose distributions (3D distributions optional)
- point dose measurements in multiple planes
- calibrate film with ion chamber
- quickly verify individual patient treatment plans
- correlate CTU to electron density