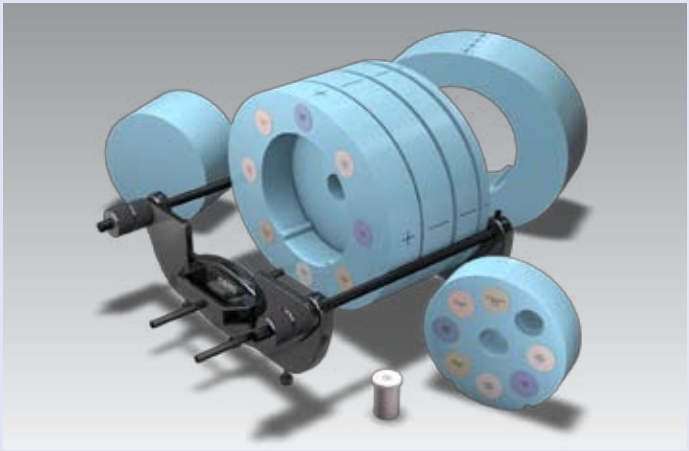


CBCT Electron Density Phantom



Model 062MA

Increase HU value confidence for adaptive Radiation Therapy

The Cone Beam (CBCT) Electron Density Phantom is an extended version of the CIRS Model 062M Electron Density Phantom and is specifically designed for Cone Beam CT Imaging systems. Preliminary data shows that there may be differences between the HU readings for Diagnostic CT and Cone Beam CT. The geometry of the Cone Beam CT requires additional material and suggests that off central axis measurements should be taken.

The phantom is a valuable tool for CT number to electron density calibration in volumetric imaging. Reliable CT calibration curves help enable treatment plan adaptation directly from Cone Beam CT data. Additionally, the phantom can

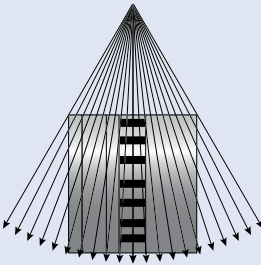
accommodate any ion chamber for dose measurements and validation of heterogeneity correction based on the corrected CT calibration curve.

The Model 062MA CBCT Electron Density Phantom's size covers geometries for imagers with dimensions of up to 40 cm x 40 cm. It is made of Plastic Water®-LR and contains the same set of tissue equivalent electron density inserts as the standard Model 062. Additional interchangeable slabs allow for repositioning of the electron density section.

DIAGNOSTIC CT

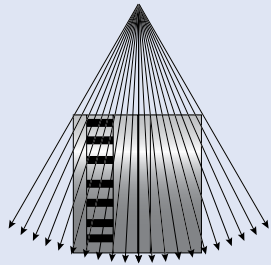


CONE BEAM CT



CBCT Electron Density Phantom
Central Axis Configuration

CONE BEAM CT



CBCT Electron Density Phantom
Offset Configuration