

2D Medium Contrast Phantom

The 2DMC provides the opportunity to evaluate low and medium contrast resolution in CT and particularly in Flatpanel-Detector-CT and Cone-Beam-CT (e.g. Dental-CBCT).

The Phantom has been designed to evaluate the imaging capabilities of 3D X-ray imaging modalities in the x/y-plane. CT-scanners low and medium contrast resolution capabilities can be obtained by a single scan using axial images and coronal reformations. The phantom visualizes the impact of all scan, image reconstruction, and display parameters.

Four series of different contrast step cylinders with diameter varying from 2 mm to 8 mm and a large cylinder of 15 mm are located in the 100 mm diameter cylindrical body of homogeneous tissue-equivalent material.

Specifications

Phantom diameter 100 mm
Phantom length 100 mm
Phantom weight 0.9kg
Base material tissue-equivalent plastic,
typ. 38HU (at 120 kV)

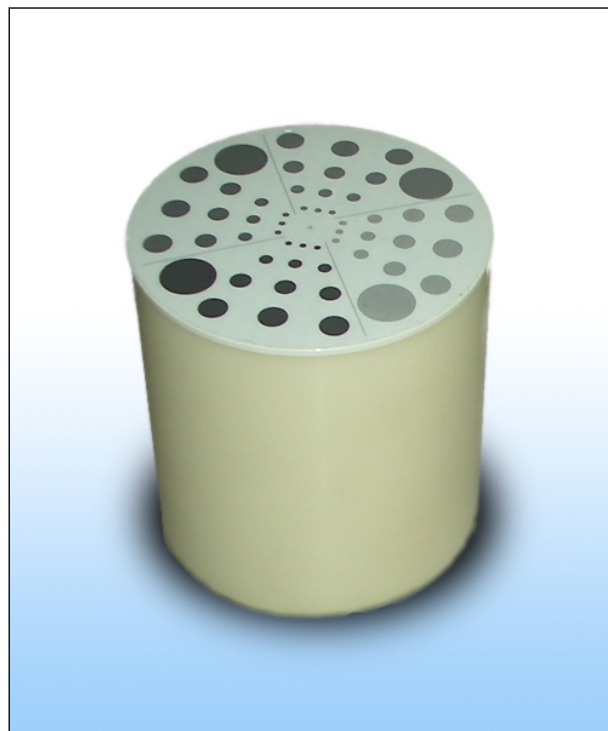
Contrast inserts -25, -50, -75 and -100 HU
relative to background

Other contrast steps available upon request!

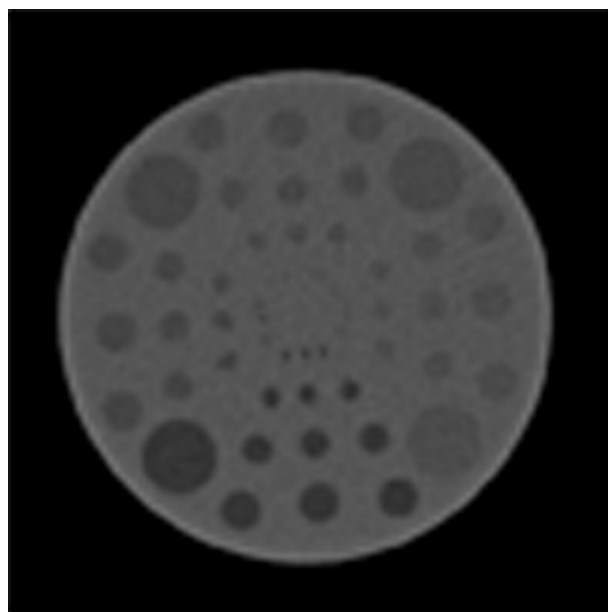
Cylindrical contrast inserts:

15, 8, 6, 4 and 2 mm (100 mm in length)

Accuracy ± 3 HU of specified values



2DMC with different contrast cylinders of -25, -50, -75 and -100 HU!



CT-Scan of the QRM-2DMC at 120 kV