

Micro-CT Multi Disk

The MicroCT Multi Disk Phantom is designed to test cone beam artifacts from Micro-CT scanners caused by reconstruction algorithms.

The Micro-CT Multi Disk Phantom is THE test object for demonstrating artifacts occurred by all kind of approximate reconstruction algorithms.

The Micro-CT-Multi Disk Phantom consists of eight high-density circular disks equally spaced at 3 mm apart parallel to the axis of rotation. These disks are separated by low-density disks showing up as darker material.

The phantom is completed on either side by 10 mm of PMMA.

Specifications

| Phantom size: diameter |
|---|
| diameter |
| Low-density disk: diameter |
| Flanging outer zylinders: material pmma thickness |

References:

Feldkamp L. A., Davis L.C., Kress, J. W.: Practical cone-beam algorithm, J. Opt. Soc. Am. A6 (1984) 612-619



Micro-CT Multi Disk (after Defrise)



Reconstructions at 30, 11 and 5 degree



Dimensions of the phantom