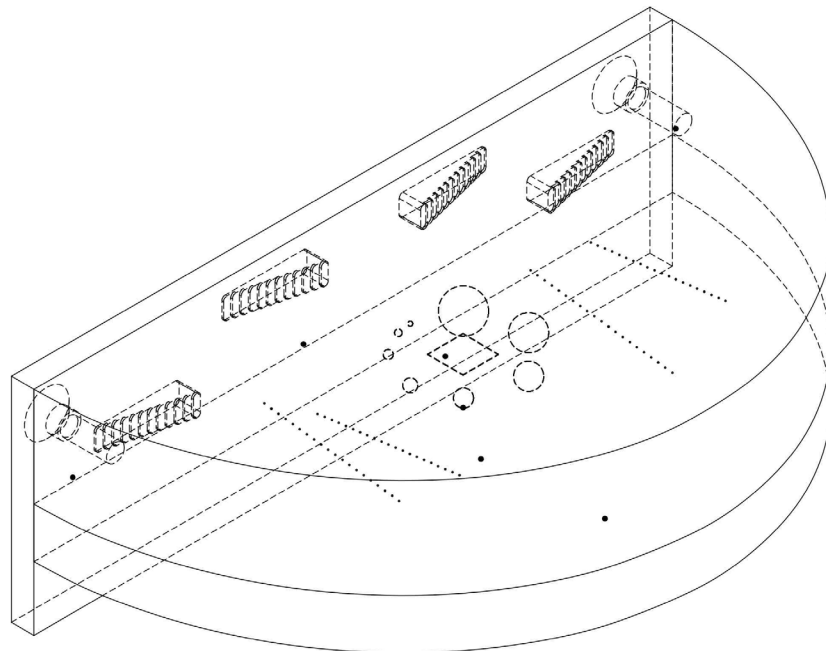


part number
TSP004

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Tomophan™ Phantom, TSP004

The Tomophan™ Phantom has been designed to evaluate the unique imaging characteristics of Breast Tomosynthesis Imaging. We have a patent pending on unique aspects of this design.

The phantom's imbedded test objects are cast into a clear urethane material in a semi-circular shape with a thickness of 42mm . The phantom is configured in section. By changing the positions of the sections image quality can be assessed in slices that are 7, 21 and 35mm from the table surface.



The Phantom Laboratory

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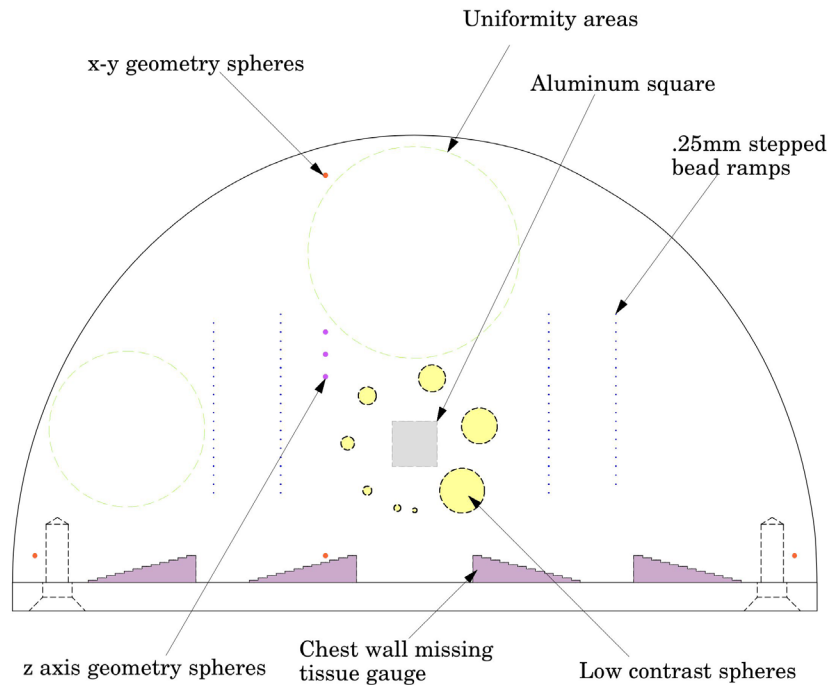


Image quality tests:

- Slice Sensitivity profile SSP (z)(slice width and slice location) using angled rows of small beads in staircase design, or use of three aluminum spheres
- Homogeneity and Noise Power Spectrum (NPS) , using uniform area
- Low Contrast CNR, using 1cm squared Aluminum foil
- Contrast detail detectability, using Acrylic Spheres of varying diameters
- Missed Tissue at chest wall, using graded step incrementation rule
- Geometric Distortion, using fiducial markers at known distances and locations
- High Contrast Resolution, using small bead point source for point spread function and MTF
- Additional effects of increased breast thickness or structure using uniform or structured layers



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