

# Phantech

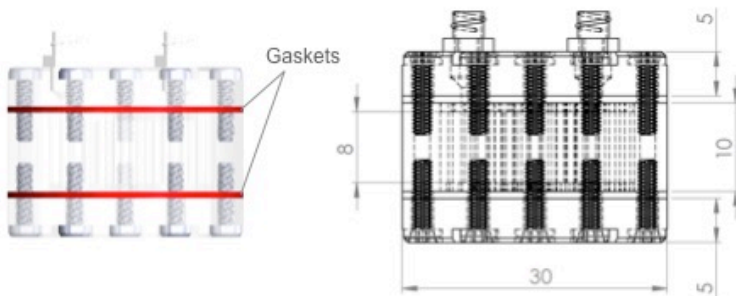
## LINEARLY-FILLED RESOLUTION “DERENZO” PATTERNS

“Derenzo” pattern phantoms are a type of resolution phantom that has a hole pattern of varying sizes. Holes within a size group are spaced at 2D (twice the diameter) apart. This enables resolution tests of your scanner by simply determining the smallest hole group that you are able to resolve with a given isotope and count number. Our Derenzo phantoms feature six different hole sizes arranged in triangles around the phantom. These phantoms also feature our patented Linear-Filling Technology, which greatly reduces the volume required to fill the phantoms, ensures even filling, and reduces the dose to the handler of the phantom. This is all while improving image quality by reducing noise. Our Derenzo phantoms are available in two sizes (custom sizing available too!):

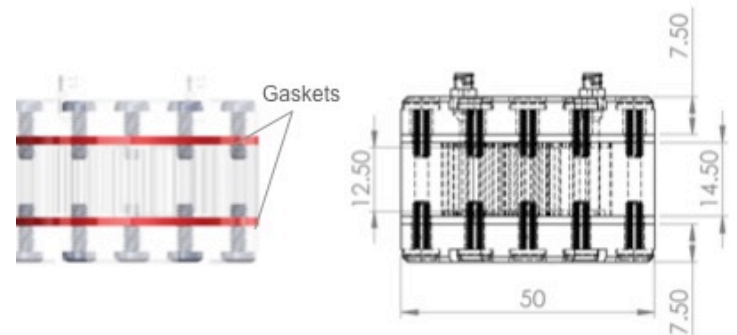
1. **Hole Sizes:** 1.00, 1.10, 1.20, 1.30, 1.40, 1.50 mm
2. **Hole Sizes:** 0.80, 1.00, 1.25, 1.50, 2.00, 2.50 mm

### FEATURES

- ✓ Lower volume
- ✓ Easy to load
- ✓ Less handling dose
- ✓ 3D printed
- ✓ Patented technology

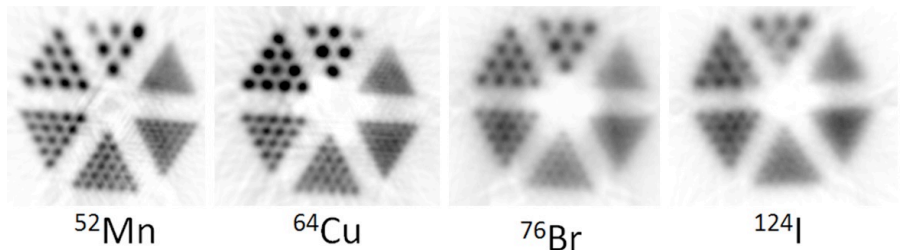


CAD renderings and specifications for the larger (30 mm overall diameter) 1.0 mm – 1.5 mm Derenzo Phantom



CAD renderings and specifications for the larger (50 mm overall diameter) 0.8 mm – 2.5 mm Derenzo Phantom

PET images of the larger size (50 mm overall diameter) phantom with a variety of isotopes. Image adapted from Cox and Graves et al. 2016, AJNMMI



INNOVATIVE HARDWARE AND SOFTWARE FOR MEDICAL IMAGING



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