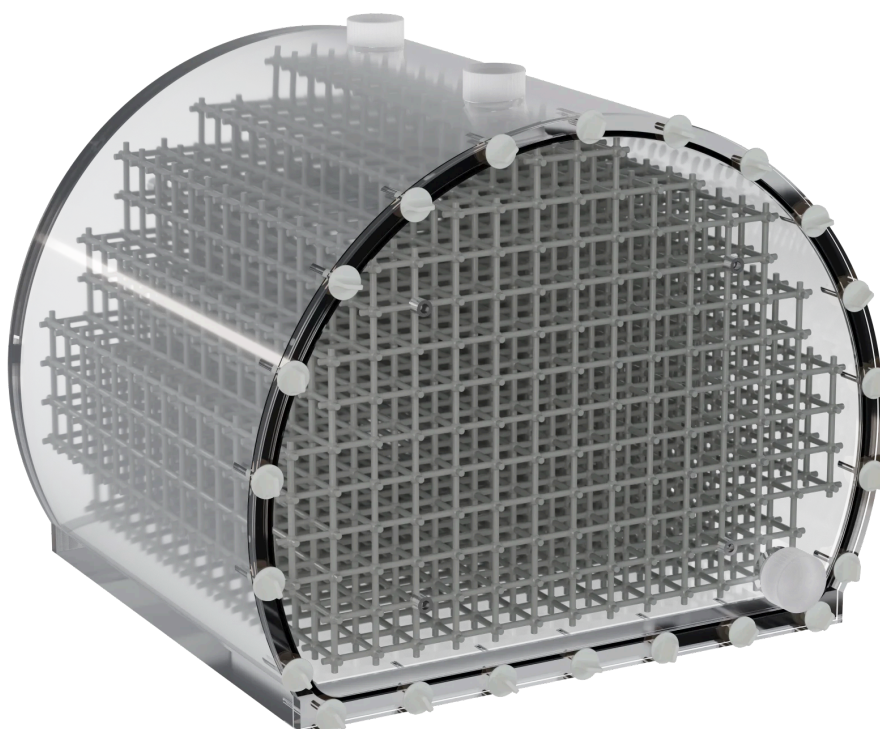


Pro-MRI Distortion

09-401



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Pro-MRI Distortion is a large-volume, liquid-fillable phantom intended for assessment and mapping of geometric distortion in magnetic resonance imaging systems. It can also be used as a physical reference in computed tomography when the selected analysis workflow requires CT-to-MRI comparison.

The phantom is intended for quality assurance, acceptance testing, commissioning, and periodic constancy testing of MRI geometric accuracy. It may also be used in CT to establish a reference dataset or verify positioning lasers.

- Three-dimensional geometric distortion mapping
- Geometric accuracy as a function of distance from isocenter
- Gradient nonlinearity with vendor correction disabled or enabled, when the scanner permits

Technical data

(can be modified to customer specifications):

- Outside cylinder diameter: 350 mm (13.8 in)
- Overall outside height: 275 mm (10.8 in)
- Cylinder length: 300 mm (11.8 in)
- Nominal center-to-center spacing of the internal 3D grid reference points:
 - a) 20.3 mm in the inferior–superior (I–S) direction
 - b) 20.5 mm in the anterior–posterior (A–P) direction
 - c) 21.5 mm in the left–right (L–R) direction
- Standard filling solution, when supplied: 10 mmol/L nickel chloride solution containing 75 mmol/L sodium chloride

Accessories

- carrying and securing belt
- filling funnel
- gravity-feed filling tube set with hand pump
- filling solution supplied separately in containers
- wheeled transport and storage case
- Diagnostic software **BASIC** subscription

Product features:

- the phantom is designed to support geometric-distortion testing and reporting based on the principles of:
 - NEMA Standards Publication MS 12-2016
 - AAPM Task Group 284
 - AAPM Report No. 100
 - IEC 62464-1:2018
- CE marked
- the manual provides detailed guidelines for carrying out each test, results assessment and registration