## **3D Spatial Resolution Phantom**

The 3DSR provides the opportunity to optimize collimation, pitch value and image reconstruction to achieve isotropic spatial resolution in all types of clinical applications.

The high-contrast spatial resolution test phantom visualizes the impact of collimation, slice width, pitch and image reconstruction algorithms. The test pattern is a series of drilled holes with varying diameter and spacing from 4.0 mm down to 0.4 mm (table 1) allowing for an order of magnitude in spatial frequency.

With spiral/helical CT, evaluating both axial images and coronal reformations, spatial 3D resolution can be tested by a single scan.

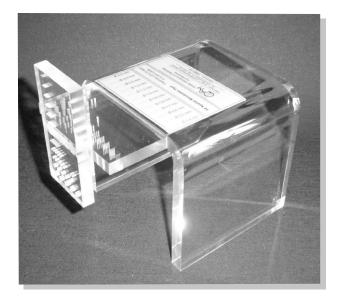
The table summarizes the geometrical properties of the test pattern: diameter of cylindrical drill holes, spacing (space between two drilled holes), and resulting spatial frequency in p/cm. Each line of the pattern consists of five holes. In order to ease localization, checkholes are placed in the vicinity of two lines.

## **Specifications**

App. 130 HU at 120 kV.

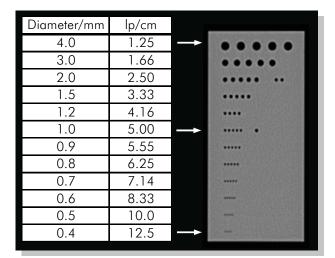
Size of plates with test patterns 50 mm x 100 mm x 10 mm

Overall	phantom	height		172 mm
Overall	phantom	length		190 mm
Phantom weight				780 g





Transversal MPR and frontal view



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