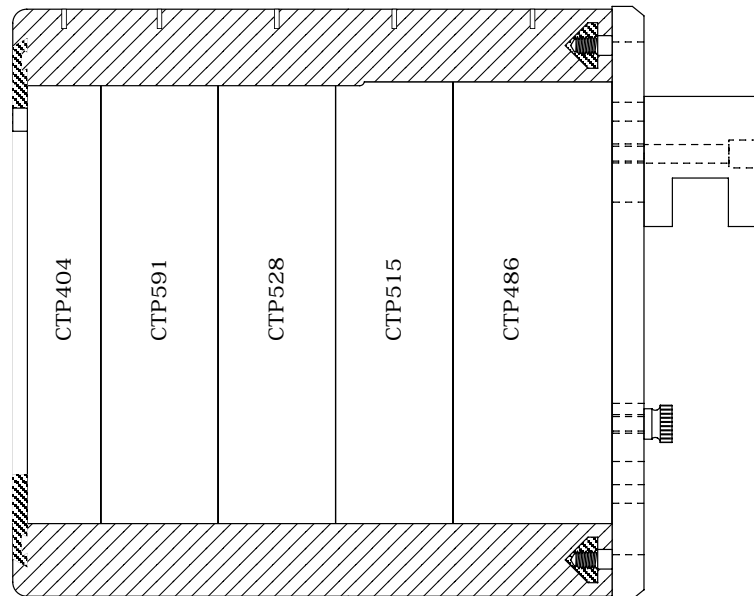


The Catphan® 600 was designed to evaluate the maximum performance potential of multi-slice CT scanners.

The Catphan® 600 combines the internationally recognised CTP528 and CTP515 modules contained in the Catphan® 500 with the versatility of the CTP591 slice geometry and point source bead module.

The CTP591 bead module contains both coarse ramps (1 mm z axis increments) and precision ramps (0.25 mm z axis increments) for evaluation of millimetre and sub-millimetre thin slices. Additionally the number of sensitometry samples has been increased.



TESTS - SUMMARY

- Scan slice geometry (slice width and slice sensitivity profile)
 - Slice width (wire ramps and bead ramps)
 - Slice sensitivity profile (single slice or multiple slices)
 - x-y distance verification (50 mm spaced rods)
- High resolution (up to 21 line pairs per cm)
- Phantom position verification
- Patient alignment system check
- Low contrast sensitivity (40 mm length solid cast targets)
- Comparative sub-slice and supra-slice low contrast sensitivity
- Spatial uniformity
- Scan incrementation
- Noise (precision) of CT systems
- Circular symmetry
- Sensitometry (linearity samples: air, PMP, LDPE, H₂O, Polystyrene, Acrylic, Delrin, Teflon)
- Pixel (matrix) size
- Point spread function and modulation transfer function (MTF) for the x, y and z axes