

# MultiMet-WL Cube

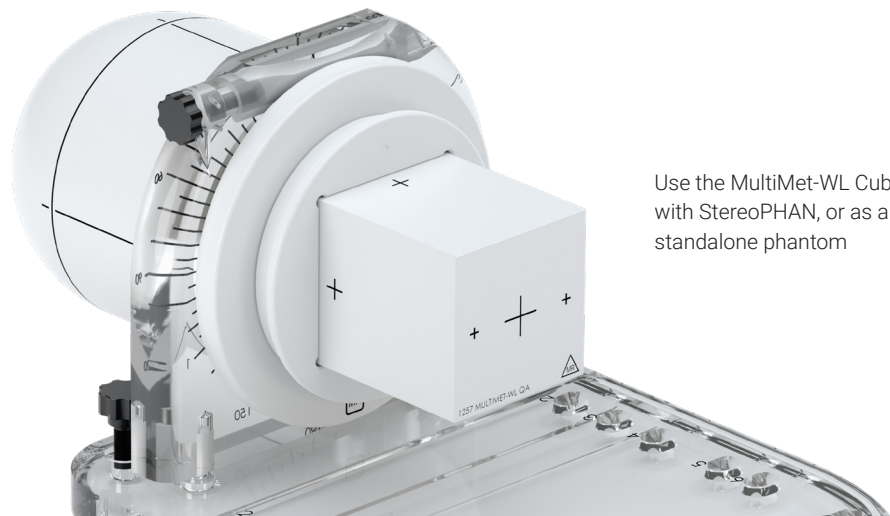
## Targeting Accuracy Check for MultiMet SRS

As clinics move toward single-isocenter multiple-met SRS treatments, more stringent off-axis QA is needed. The MultiMet-WL Cube efficiently measures targets up to 7 cm off-axis within 0.1 mm accuracy.



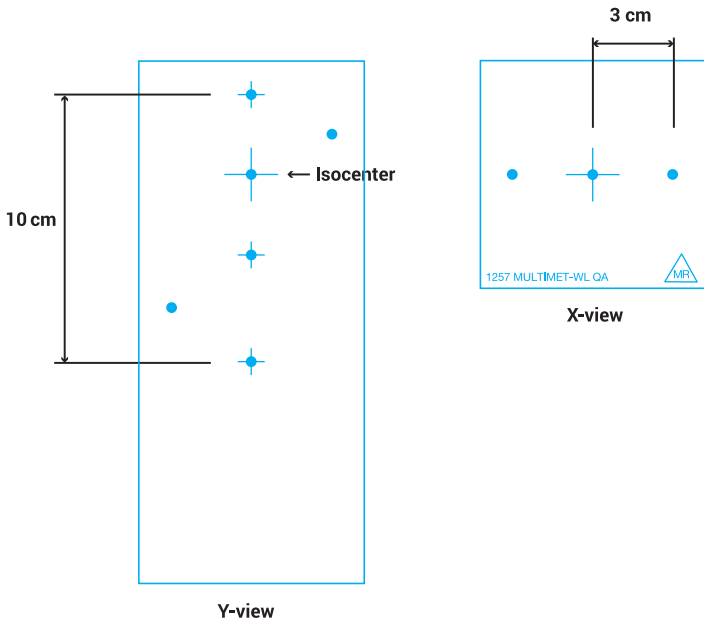
### Features and Benefits

- Precise phantom with 6 spherical targets (5 mm in diameter) set at precise locations
  - Quantifiable accuracy up to 7 cm off isocenter
  - Reduced likelihood of phantom placement errors
- Surface-level cross-hair markings visible in CT imaging, easing phantom orientation and alignment to delivery system
- Compatibility with Cone, MLC or Jaw deliveries
- User-friendly software workflow
  - Extended Winston-Lutz (WL) analysis to calculate 3D locations of off-axis targets in patient frame of reference, helping identify and reduce positioning errors
  - Ability to identify source of error – Gantry, Couch or Collimator – in 6 degrees of freedom
  - Software included to automate analysis

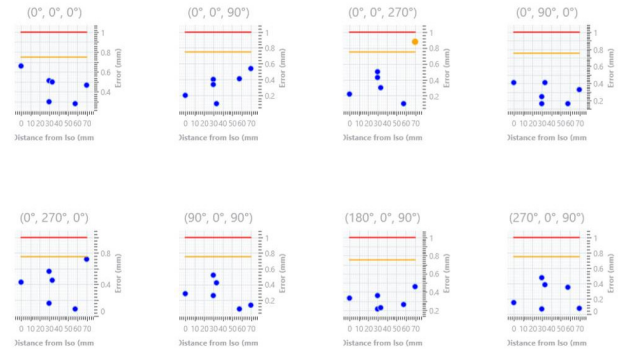


Use the MultiMet-WL Cube with StereoPHAN, or as a standalone phantom

## Target Locations



## Analysis Software



Off-axis Winston-Lutz tests analyzed in software to determine targeting errors

Six targets enable quantifying the margin of error up to 7 cm off-axis

## Specifications

Dimensions: (cm3)	8.5 x 8.5 x 12.75
Targets:	6 (5 mm diameter) tungsten targets in specified locations
Target to Cross-hair tolerance:	$\pm 0.1$ mm
Target Material:	Tungsten Carbide
Quantifiable Off-Axis Accuracy Range:	Up to 7 cm
StereoPHAN™	Yes

## Compatibility

Cone, MLC, & Jaw Deliveries:	Yes
Varian Medical Systems® Trilogy™, TrueBeam®, and Edge® Systems:	Yes
Elekta Versa HD™ and Synergy® Systems:	Yes
Imager Minimum Required Pixel Pitch	$\leq 0.50$ mm



*"This phantom... provides a simple method to verify targeting accuracy for multiple lesions with single isocenter. Its integration with the StereoPHAN™ makes it an effective supplemental tool for end-to-end testing for SRS."*

**Development of a Phantom to Verify Targeting Accuracy of Single-Isocenter Multiple Lesion Stereotactic Radiosurgery, AAPM 2019**

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