

# Phantom Patient for VMAT & IMRT

Model 136500

**SHANE**  
SHOULDERS, HEAD AND NECK, END-TO-END



## HIGH FIDELITY SIMULATION FOR YOUR VMAT & IMRT PROGRAM

The CIRS Shoulder, Head and Neck End-to-End Verification Phantom (SHANE) is designed for end-to-end testing of treatment planning systems. The phantom can be used for every step in this process from imaging acquisition to dosimetry verification and patient-specific QA during head-and-neck VMAT and IMRT procedures.

The head and shoulders are cut in the coronal plane to receive large radiochromic or radiographic film for treatment plan verification. The phantom also receives ion chambers or other detectors, which can be positioned in four parallel holes drilled through the phantom in Inferior-Superior direction.

The high-fidelity anthropomorphic design contains complex internal anatomy that provides a realistic clinical simulation to evaluate the challenging effects of intra- and extra-cranial anatomies.

Head and shoulder portions are manufactured as a single piece to enable use with various fixation devices. The

shoulder portion contains thoracic vertebrae, which enable TPS verification to the level of T2 vertebra. Shoulders also include tissue inserts for electron density calibration.

The phantom comes with carry case and 48-month warranty.

### Benefits

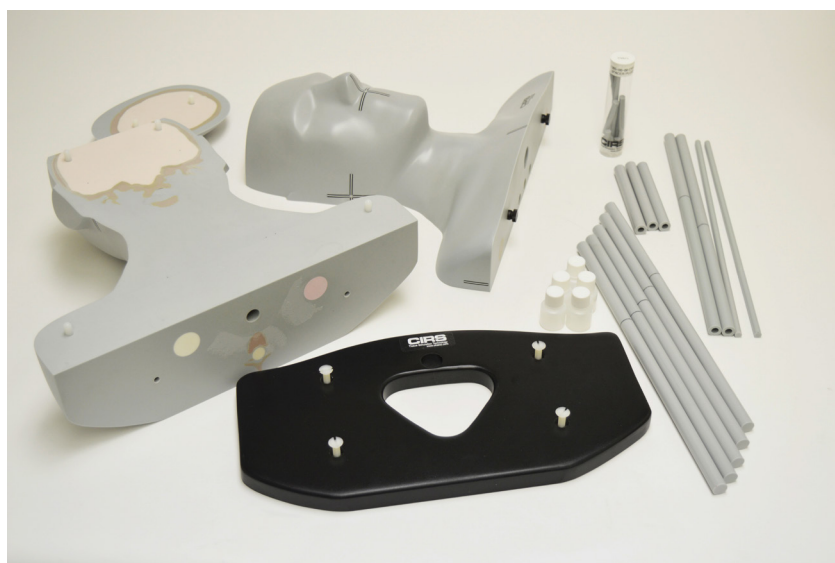
- High fidelity phantom-patient
- Suitable for use with various commercially available fixation devices
- Enables dose measurements in large regions of head and neck through use of radiographic film
- Allows dose measurements with ion chambers
- Performs Electron Density calibration in shoulders

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**CIRS**

Tissue Simulation & Phantom Technology



**SPECIFICATIONS**

**MODEL 136500 INCLUDES**

Qty	Description
1	Head Vertex
1	Head & Shoulders Anterior part
1	Head & Shoulders Posterior part
1	End plate, ABS black
4	Solid Rod w/BB @ ISO center, 330 mm long
3	Sleeve CV511C, 115 mm long
1	Plug PL-CV511C solid, 330 mm long
1	Plug PL-CV511C solid w/BB, 330 mm long
1	Plug PL-CV511C solid to fit Cavity Rod @ ISO center, 217 mm long
1	Plug PL-CV511C solid to fit Cavity Rod @ ISO center + 50 mm, 167 mm long
1	Spacer Plugs CV511C Kit, total length 370 mm x 7mm Ø
1	Spacer Plugs CV511C Kit, total length 130 mm x 13mm Ø
1	Cavity Rod CV511C for Ion Chamber @ ISO location, 320 mm

Qty	Description
1	Cavity Rod CV511C for Ion Chamber @ ISO+50 mm location, 320 mm
5	Water vial
1	Screw driver
12	Nylon screws ¼-20x1-1/4"
6	Black nylon thumbscrews ¼-20x1/2"
8	Nylon pins 1/4x1"
1	Black nylon strap with a buckle
1	User's Guide (electronic copy)
1	Carry case, foam lined

**Dimensions:** 36 cm (W) x 36 cm (L) x 22cm (H)

**Weight:** 10.2 kg without rods

**Materials:** CIRS proprietary epoxy resins.

