

## Model AR-QC 002 Isocentric Beam Checker

The Isocentric Beam Checker is a quality assurance tool for assessing in a precise and quick way all the mechanical and geometrical parameters of linear accelerators or Telecobalt units.

Among other things, it allows check of:

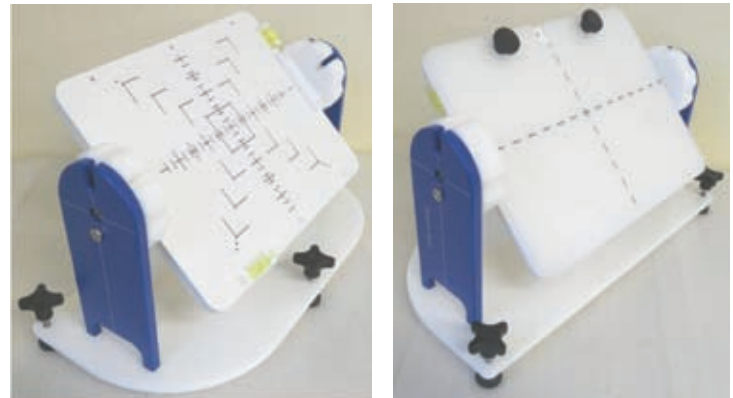
- ▶ Adequation radiation field/light field
- ▶ Collimator radiation field-size accuracy
- ▶ Treatment machine collimator isocentricity
- ▶ Treatment table isocentricity
- ▶ Gantry isocentricity
- ▶ Laser alignments
- ▶ Optical Distance Indicators (ODI) accuracy

The Isocentric Beam Checker consists of:

- ▶ A base in polyamide provided with 3 anti-skid and adjustable thumb wheels for leveling adjustments of the device
- ▶ A target tray made of hard polystyrene with two bubble levels for level verifying in the two axes
- ▶ Two arms are used for supporting the target tray during rotation. Each arm includes a polyamide knob for easier rotation of the target tray.

### Specifications

Overall dimensions ..... L 51.6 cm x W 24.5 cm x H 34 cm  
 Target tray dimensions ..... 32.5 cm x 27.4 cm  
 Weight ..... 6 kg  
 Materials ..... Polyamide / anodized aluminum / hard polystyrene



The target tray is made of two opaque assembled plates in hard polystyrene:

- ▶ One side engraved for delimitating the fields of: 2 x 2 cm; 5 x 5 cm; 10 x 10 cm; 15 x 15 cm; 20 x 20 cm
- ▶ Markings every centimeter in both axes
- ▶ Balls Ø 2.3 mm made from a non-metallic material and embedded in the corners and the center of each field
- ▶ Other side engraved with a dotted cross to visualize the axes
- ▶ 328 mm x 254 mm cavity for insertion of a radiographic film, two clamping buttons
- ▶ Rotation on 360° in 45° increments

Arm supports of the target tray:

- ▶ Made of epoxy painted aluminum, a clearing at the top level allows laser alignment without obstacle.
- ▶ Each arm is equipped with a cogged polyamide knob which aids in the rotation of the target tray. (Helps in preventing movement of device during rotation for more efficient handling.)

CNMC/DS AR-QC-002 IBC(1) v.08.2020

CNMC 865 Easthagan Drive, Nashville, Tennessee 37217 USA  
 phone 615 391 3076 800 635 2662 fax 615 885 0285 www.cnmc.co.com

AFRICA | ASIA | EUROPE | LATIN AMERICA | MIDDLE EAST | NORTH AMERICA

© 2020 CNMC Company. All Rights Reserved. The specifications contained in this brochure are subject to change.

