

# Forearm Phantom

**A Phantom for Quantitative Computed Tomography (QCT) measurements of the forearm to calibrate CT values to Bone Mineral Density (BMD).**

The QRM-Forearm-Phantom was developed for calibrating CT values to BMD. Its shape is optimized to the anatomy of an adult forearm. It is placed between the forearm and the CT coach pet directly.

The phantom consists of two solid cylindrical rods, of water-equivalent and bone-equivalent material, respectively.

## Specifications

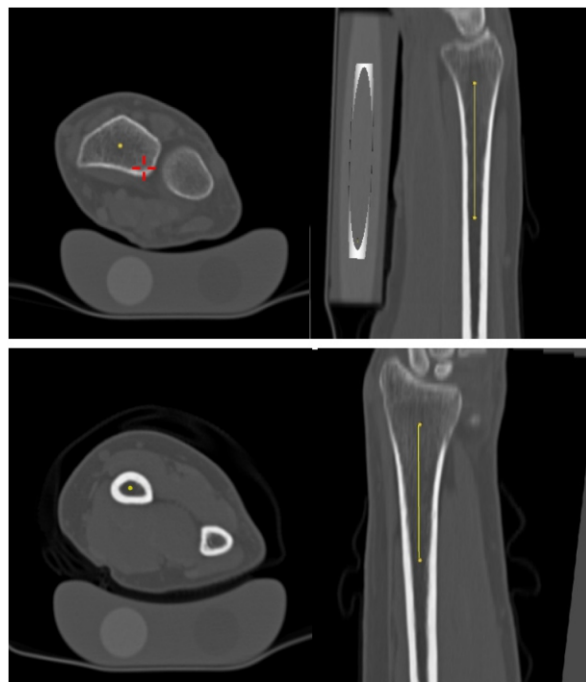
Base material .....tissue-equivalent resin  
Phantom cross section..... 70 x 25  
mm<sup>2</sup>  
Phantom length .....150 mm  
Phantom weight ..... 225 g  
Bone eqv insert specified ..... 200 mg HA/cm<sup>3</sup>  
Water equivalent insert ..... 0 HU (80 - 140  
kV)

## References

- [1] K. Engelke, W. Timm, B. Stampa, E. Paris, T. Fuerst,  
C. Libanati, H.K. Genant.  
Quantitative Computed Tomography (QCT) of the  
forearm using clinical CT scanners. Presented  
at "29nd Annual Meeting of the American Society  
for  
Bone and Mineral Research", Honolulu, HI (2007).  
JBMR 22 Suppl 1, S193



*The QRM-Forearm-Phantom*



*CT-scans of a Forearm - and below the calibration phantom [1]*

