

Micro-CT HA

A Phantom for calibrating CT-values. The five inserts provide most favorable densities of hydroxyapatite (CaHA) for in-vivo or in-vitro micro-CT bone density

The MicroCT-HA Phantom houses five cylindrical inserts containing various densities of Calcium hydroxyapatite (CaHA).

The phantom can be used for bone density calibration in micro-CT systems as well as high contrast resolution evaluations respectively. The standard phantom is scaled down from the diameter of an average human trunk (32 cm) to that of a fat mouse or lean rat (32 mm). Smaller models are also available to meet increasing requirements of advanced micro-CT systems.

Specifications

All HA-Phantoms:

Base material resin
 HA densities specified* 0, 50, 200, 800 and 1200 mg HA/cm³

*Actual values vary slightly with charge and will be specified for each delivered item.

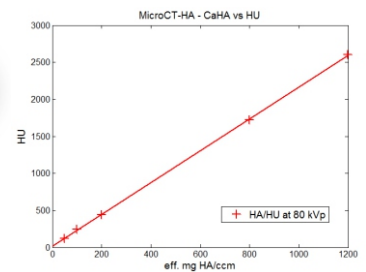
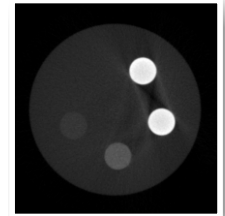
Available Models (part number):

- MicroCT-HA D32 (∅=32mm, ∅i=5mm)
- MicroCT-HA D25 (∅=25mm, ∅i=5mm)
- MicroCT-HA D20 (∅=20mm, ∅i=2mm)
- MicroCT-HA D10 (∅=10mm, ∅i=2mm)
- MicroCT-HA D4.5 (∅=4.5mm, ∅i=0.8mm)

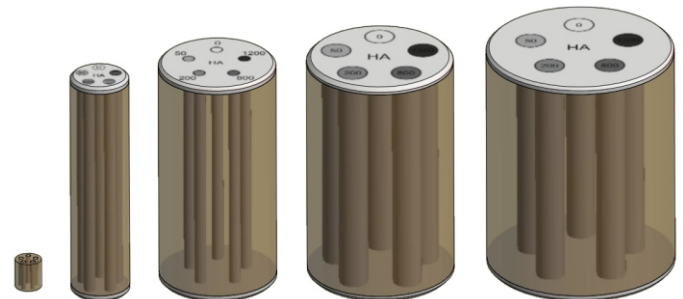
separate rods are available on demand.

References:

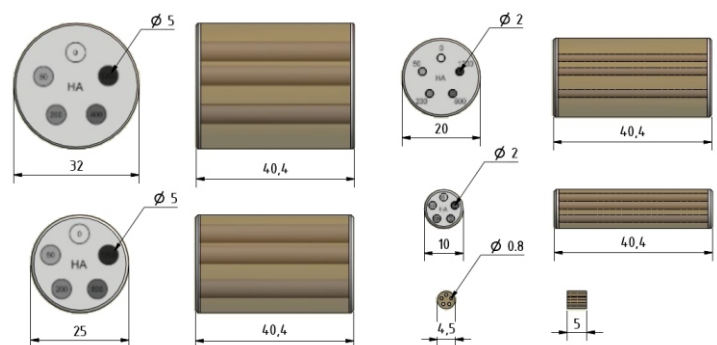
[1] Kalender, W., Durkee, B., Langner, O., Stepina, E., Karolczak, M.: Comparative Evaluation: Acceptance Testing and Constancy Testing for Micro-CT Scanners.



Micro-CT HA Phantom D32 (32mm diameter)



5 different standard models available



Schematic drawing of the HA-Phantoms