

Hip Phantom V2

The Hip Phantom can be used to examine artifacts related to hip implants. It is also designed to evaluate bmd in quantitative Computed Tomography (qCT) of the hip/femur region.

The Hip-Phantom comprises a water-equivalent phantom body, made from CTWater® and two interchangeable cylindrical inserts with a specified bone mineral density of 800 (cortical bone) and 100 /200 mg (cancellous bone) hydroxyapatite (HA) per cm³ respectively.

The bone-simulating cylinders have an outer diameter of 30 mm and a wall thickness of 5 mm (cortical bone), the inner part is 20 mm in diameter (spongy bone).

There are several different inserts available with other bmd concentrations. Inserts with metal implants can be ordered on a custom-made basis.

Specifications

Base material CTWater®
Phantom cross section 360 x 160 mm
Phantom depth 100 mm

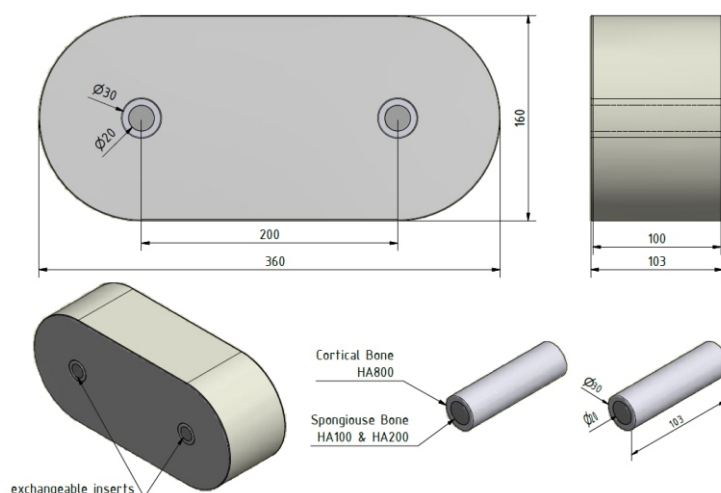
Interchangeable bone equivalent inserts:

Outer diameter 30 mm
Inner diameter 20 mm
Cortical bone cylinder I + II 800 mg HA/cm³
Spongy bone cylinder I 100 mg HA/cm³
Spongy bone cylinder II 200 mg HA/cm³

Different additional BMD inserts as well as implants are possible. Please contact us:
info@qrm.de



The QRM-Hip-Phantom



Schematic drawing of the phantom.