

Patient-Specific Instrumentation CT Protocol:

- Non-Weightbearing CT (*Knee Required*)
- Weightbearing CT (*Supplemental X-rays Required*)

Scan Setting Requirements

File Format: Uncompressed DICOM

Scan/Slice Spacing: 1.25mm or smaller

Note: If desired, once the scan is 10cm above the ankle joint, the slice thickness can be adjusted to a larger thickness/increment (5mm maximum).

Pixel Size: 0.8mm pixel size or smaller

Tilt: 0-degree tilt

Please ensure a gantry tilt is not used during image acquisition. Also, gantry-tilted images that are post-processed for reorientation are not acceptable. Images cannot be reprocessed to reorient, so ensure there is no tilt.

Algorithm:

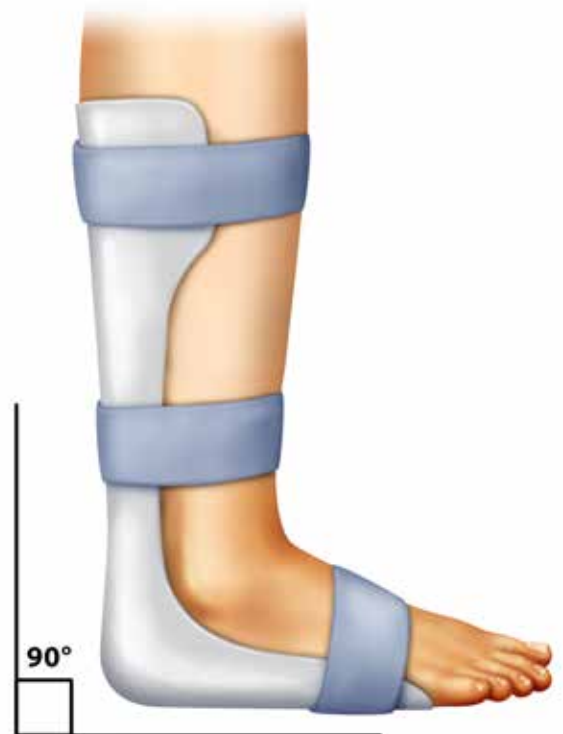
- Toshiba: FC20
- GE: Standard (not bone or detail)
- Siemens: H30s
- Philips: B

Scan Modes: Helical or axial

Patient Requirements

- Patients need to be in a supine position.
- CT scan must be less than 6 months before the surgery date.
- The patient must not move during the scan.
- Do not use a contrasting agent.

Note: Patients with metallic or contralateral implants may cause an image artifact and obscure part of the scan. Elevation of the contralateral limb is preferred to reduce metal artifact scattering.



When possible, position the patient's foot in a neutral position (90 degrees to the leg). If not possible, then deviation is acceptable up to 25 degrees from neutral.

Non-Weightbearing CT Protocol

(Knee Required in Scan)

Scan Output Requirements

Foot & Ankle

- Scan must encompass entire foot (ball of foot, toes and heel)

Important: Failure to include the full view of the metatarsals will require a new CT scan.

- Scan must come to at least 10cm above the ankle joint

Knee

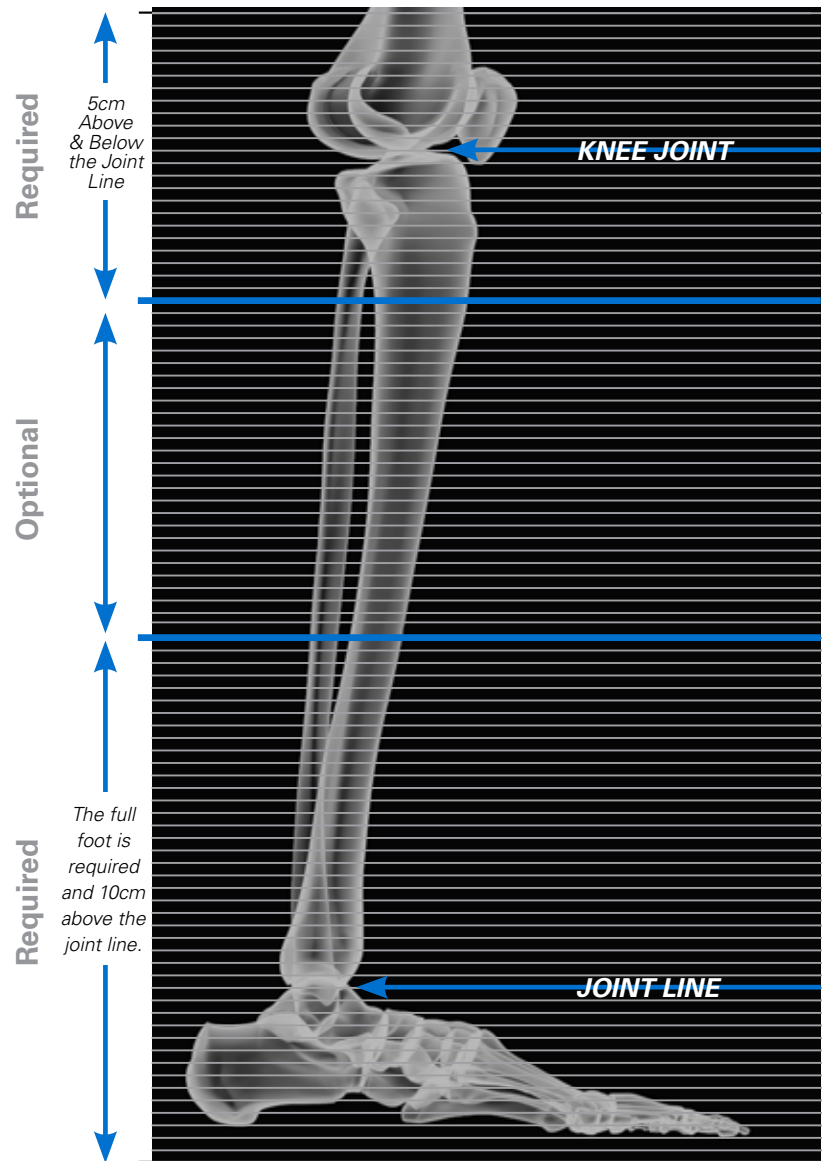
- Scan must include 5cm above and below the knee joint
- Scan must be in the same coordinate system as the ankle scan

Important: Failure to include the knee in the scan will require patient's return to doctor's office for supplemental X-rays, potentially delaying surgery.

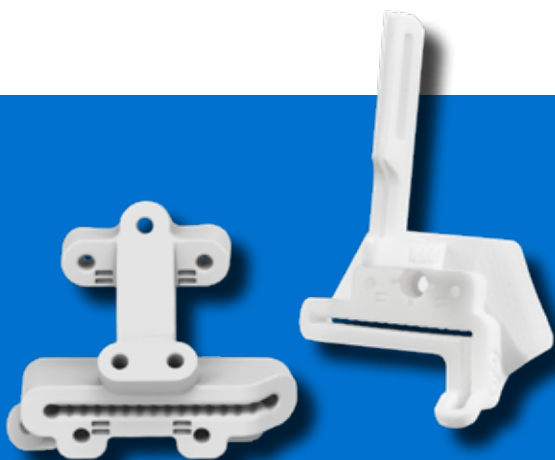
Optional Images

- Stress X-rays of the medial and lateral ligaments (talar tilt X-rays)
- Maximum plantarflexion and dorsiflexion X-rays
- Weightbearing X-rays

Scan/Slice Spacing: 1.25mm or less



*Image shown is not to scale.



Weightbearing CT Protocol

(Supplemental X-rays Required)

Scan Output Requirements

- Scan must encompass entire foot (ball of foot, toes and heel)

Important: Failure to include the full view of the metatarsals will require a new CT scan.

- Scan must come to at least 10cm above the ankle joint

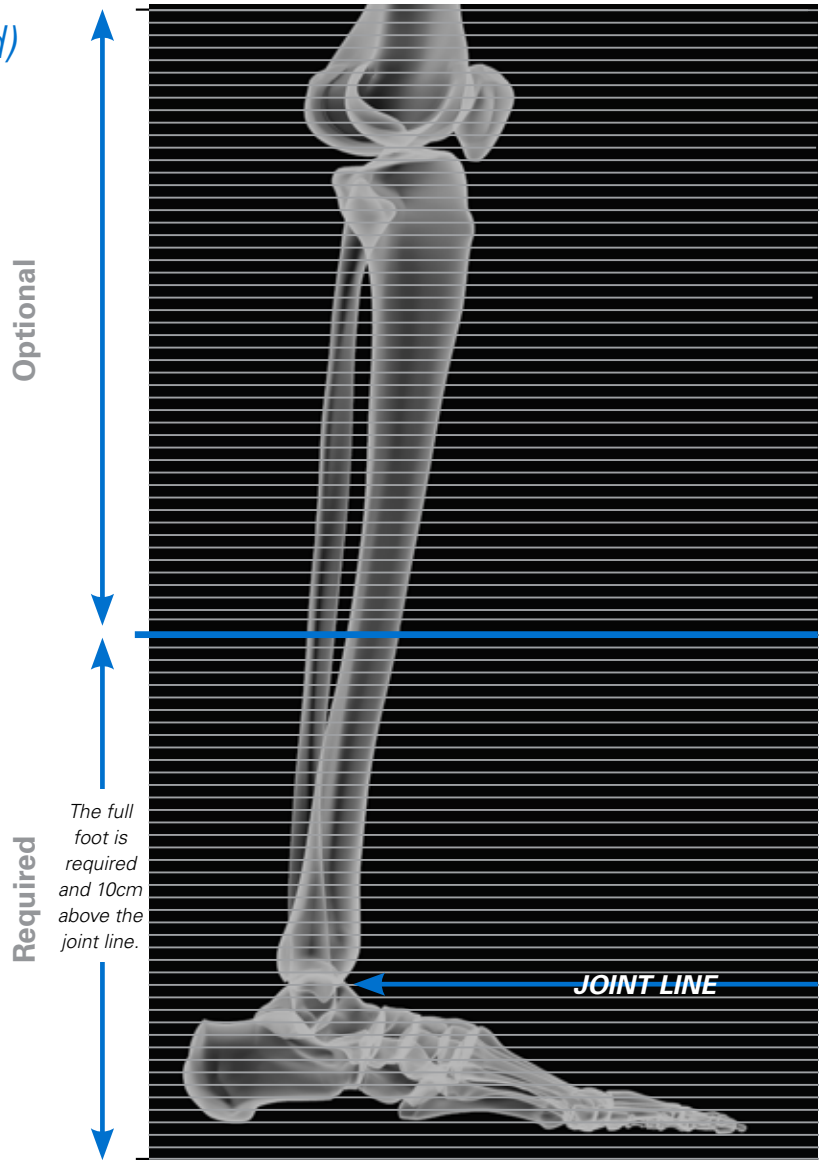
X-ray Requirements

- Three separate X-rays are required:
 - AP view
 - Lateral view
 - Mortise view
- Bottom of the foot must be visible
- Full metatarsals must be visible
- Knee joint must be visible

See X-ray samples on the back.

Note: If your weightbearing CT can include the knee, X-rays are not required.

Scan/Slice Spacing: 1.25mm or less



**Image shown is not to scale.*

How to Upload My Scans

Visit www.vantagepsi.com.

You can also send us your scans on a CD or DVD in a DICOM uncompressed format.

Archive the entire study and contact us at 844-643-1001 for shipping and further details.

If you have any issues, please contact 3D Systems at 1-844-643-1001.



Radiation Safety Resources

- www.fda.gov/radiation-emitting-products/medical-x-ray-imaging/computed-tomography-ct
- www.imagewisely.org/Imaging-Modalities/Computed-Tomography



X-ray Samples

Anterior X-ray



Lateral X-ray



Mortise X-ray



To contact 3D Systems, please call 1-844-643-1001 to speak to a representative.

MM-867 Rev. C

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