EXACTECH | **FOOT & ANKLE**

Scan Protocol

VANTAGE® with ACTIVE Intelligence® | Ankle PSI

Patient-Specific Instrumentation Protocol
Powered by 3D Systems VSP® Solutions

3D SYSTEMS

Exactech®

Vantage® Ankle PSI Protocol

Scan Setting Requirements

File Format: Uncompressed DICOM

Scan/Slice Spacing: 1.25mm or smaller

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:

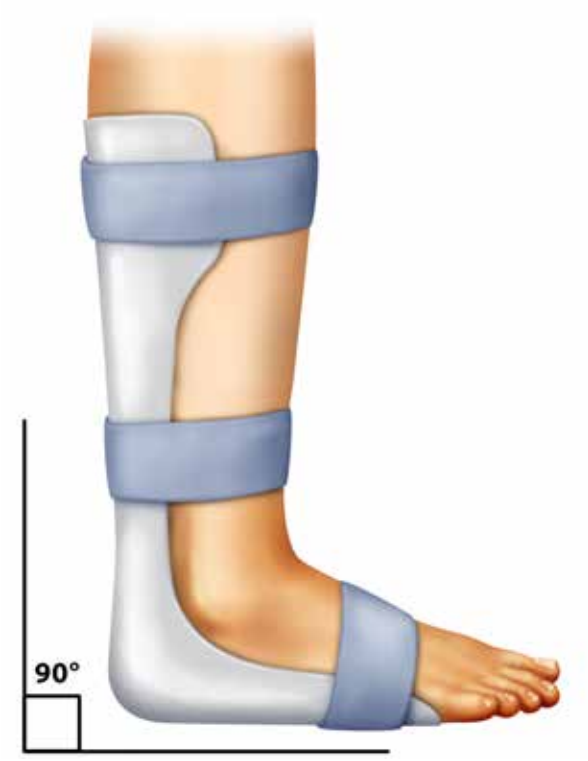
- Toshiba: FC20
- GE: Standard (not bone or detail)
- Siemens: H30s
- Philips: B

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.

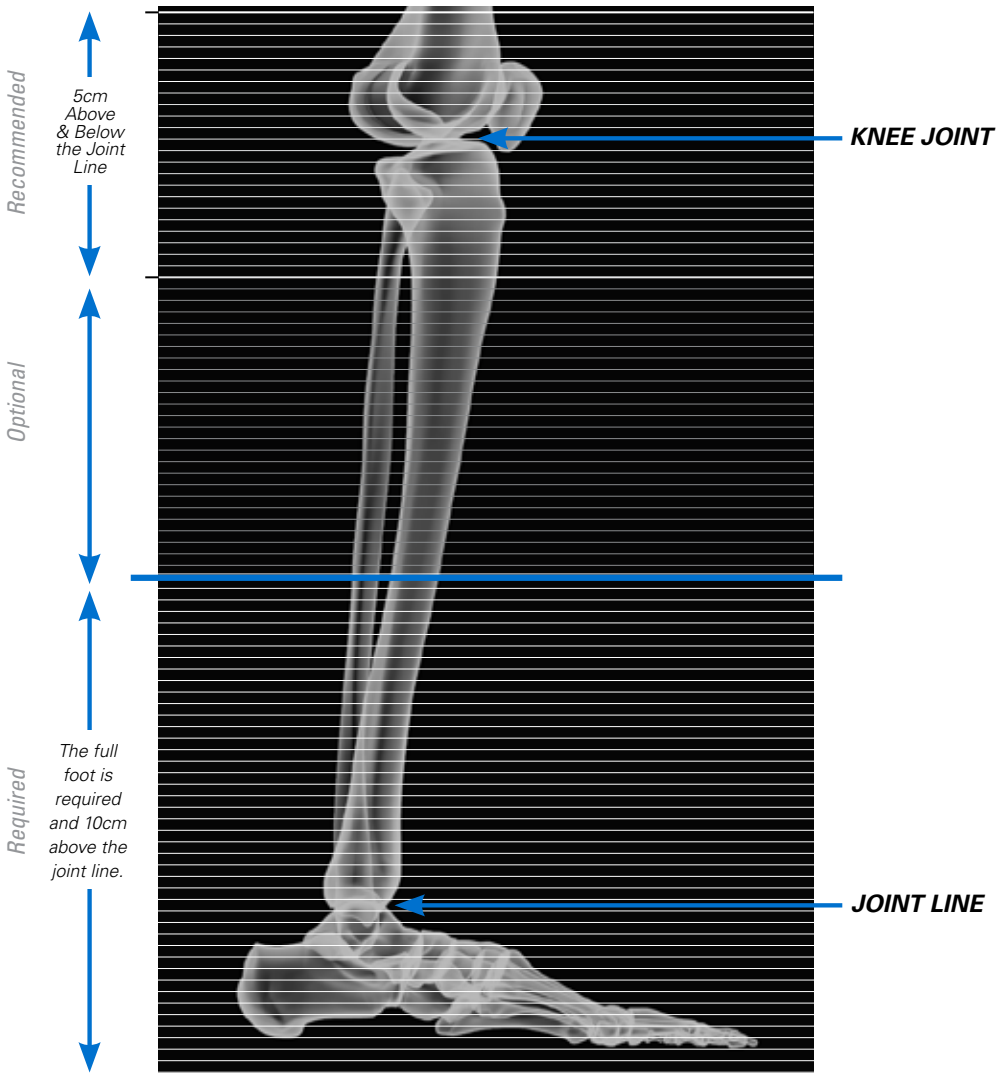


*Image shown is not to scale.

Scan Output Requirements

The scan must encompass the entire foot (ball of the foot, toes and heel). The scan must come at least 10cm above the ankle joint line.

Highly Recommended, Not Required

Include 5cm above and a minimum of 5cm below the knee joint in the scan. If desired, once the scan is 10cm above the ankle joint, the slice thickness can be adjusted to a larger slice thickness/increment (5mm maximum). This scan must be in the same field of view, coordinate system, and pixel size as the ankle scan.

Note: *This portion of the scan is required if an axis of the full tibia is desired rather than a distal tibial axis.*

Required X-Rays to Provide

- Lateral weight-bearing X-ray
- Mortise view X-ray
- AP standing X-ray

Optional Scans to Provide

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

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

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

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Exactech, as the distributor of this device, does not practice medicine, and is not responsible for recommending the appropriate surgical technique for use on a particular patient. These guidelines are intended to be solely informational and each surgeon must evaluate the appropriateness of these guidelines based on his or her personal medical training and experience. Prior to use of this system, the surgeon should refer to the product package insert for comprehensive warnings, precautions, indications for use, contraindications, and adverse effects.

The Vantage Ankle PSI is manufactured by 3D Systems and distributed only in the U.S. by Exactech.

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