

Knee Osteotomy CT Scan Protocol for Patient-Specific Instrumentation

3D-Side works with surgical teams to create osteotomy solutions customized for every patient. 3D reconstructions, bone models, and patient-specific instrumentation provide accurate resection, along with confidence and comfort in the OR. 3D-Side has been conducting R&D activities supporting patient-specific instrumentation and implants since 2005 and operates in more than 15 different countries.



CT Scan Parameters

Patient Position

- › Standard position for a CT scan

Scan Type

- › Helical CT scan without contrast (no arthrography)

Region of Interest

- › 10 cm proximally and distally to the joint

Image Parameters

- › Continuous slices of <1 mm thickness at the osteotomy site
- › Slice thickness <2.5 mm at the secondary site
- › For DFO, HTO: 1 mm thickness on the knee, 2.5 mm thickness on the hip and ankle

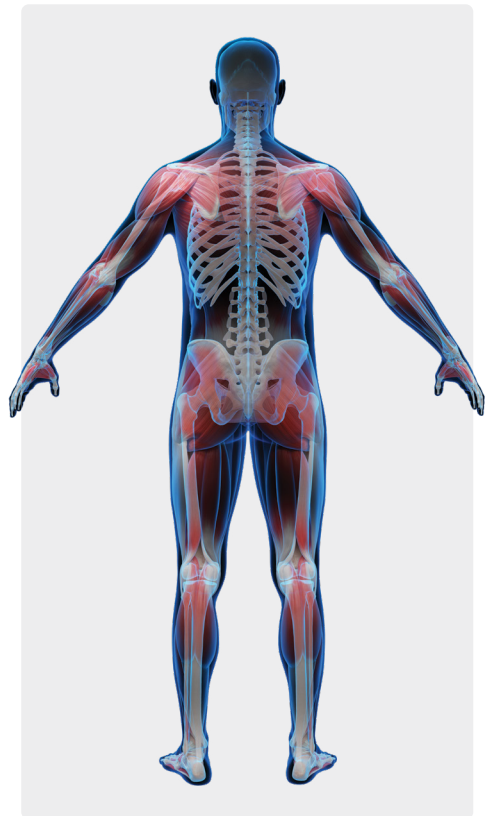
Reconstruction Parameters

- › Metal artifact reduction should be applied when hardware is present
- › Standard algorithm without edge enhancement
- › Bone filter is suitable
- › Any filter beneficial to the diagnosis can be applied additionally to the primary acquisition
- › No gantry tilt
- › No oblique reconstructions

Important: Do not change the image parameters or concatenate several CT scan acquisitions into one scan.

SENDING THE SCAN

Upload CT scans to: <https://3dside.3d-customize.com/upload>



Document prepared by 3D-Side for clinical reference and commercial team use.
For regulatory compliance, refer to 3D-Cut FDA 510(k) K212237 cleared labeling. March 2026.

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