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

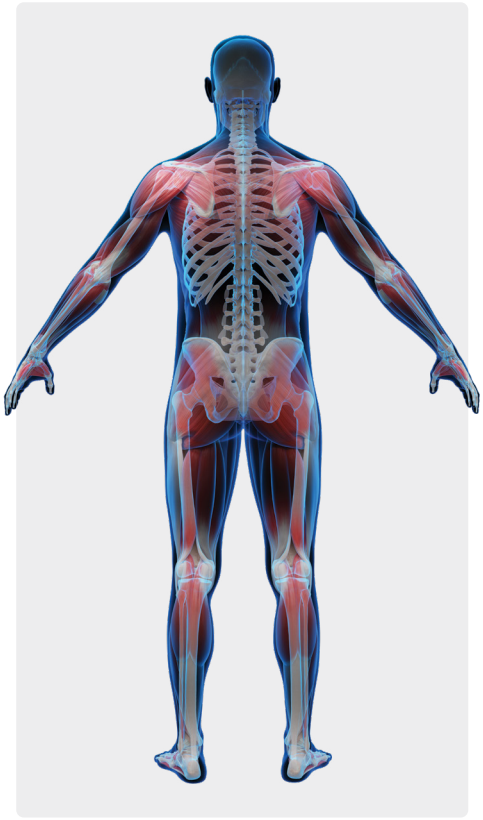
› No gantry tilt

› 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://arthrexpsi.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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