

Preferred CT Data Specifications: Shoulder

Scan Protocol

The better the quality of CT scans submitted to us, the better the quality of 3D software models and patient-specific models we are able to output. In order to obtain quality models, please ensure that the following parameters, or parameters that result in as little noise as possible, are used in obtaining CT images. Please adjust the technique (kVp, mAs) and window levels to maximize the visibility of the cortical bone. Where possible, reduce metal in the field of view and ensure that the patient does not move during acquisition.

Arthrex is attempting to minimize the number of rejections due to incompatible or inadequate imaging. Arthrex reserves the right to reject CT scans that have one or more parameters outside the recommendations below.

All CT scans expire (will not be accepted for planning) 6 months from the date of CT scan acquisition

Patient Position	Shoulder: Supine, unaffected arm up over head, affected arm down by side; shoulder centered in gantry
Slice Thickness	1.0 mm or less, preferably less
Reconstruction Interval (collimation, scan spacing)	1.0 mm or less, preferably less
Acquisition	Spiral or helical mode
Field of View (FOV)	Shoulder: Entire scapula and proximal $\frac{1}{3}$ of humerus, as small as possible
Span Spacing	Contiguous slices
Pitch	Less than 1
Gantry Angle	0° (no tilt)
Reconstruction filter/algorithm	Medium/standard (not smooth, not sharp, not bone, not detail) No contrast (arthrograms NOT acceptable) Raw DICOM (grayscale only, no formatting)
Scan Strength (kVp)	140 kVp if available, otherwise 120 kVp
Dose Modulation (mAs)	300 mAs with dose modulation; if modulation is not available, then 200 mAs or higher depending on patient size

Page 1 of 1

This document is confidential and proprietary and it may not be reproduced, used, or disclosed to others without written consent of Arthrex, Inc.

Arthrex, Inc.
Specifications for CT Scan Data Acquisition
Revision Level: 1