

CT SCANNING PROTOCOL OMNIPORE® CUSTOMIZED SURGICAL IMPLANTS & ANATOMICAL MODELS

Thank you for your interest in **OMNIPORE** Customized Surgical Implants. The quality of the CT scan is a critical component for the production of a high quality customized surgical implant and anatomical model. Please review and follow this protocol and submit your scan using the upload feature on our website, or shipping to Matrix Surgical USA, 4025 Welcome All Road, Suite 120, Atlanta, Georgia 30349 U.S.A. Contact customer care at mmartin@matrixsurgicalusa.com if you require further clarification or information.

Requirements

1. Perform a high-resolution 3D Helical CT scan according to the following guidelines;
2. Archive the original high-resolution fine slice data in uncompressed DICOM format.

CT Scanning Guidelines

Only provide the **original sub-millimeter spaced fine slice data, NO REFORMATS.**

- Do not use Cone Beam CT (due to insufficient contrast resolution).
- The patient must remain completely still during the scan. If the patient moves during the scan, it must be repeated.
- Where possible, the CT scan should cover from apex to mentum. This is very important for symmetry restoration cases.
- The presence of metallic artifacts may obscure the affected anatomy. Minimize this by appropriate positioning of the head.
- The following table outlines appropriate slice thickness and spacing combinations in millimeters:

Anatomy	Slice Thickness	Spacing	Example
Face	0.5 (or nearest to)	0.4	Orbits, Mandible, CTA
Skull	1.0 (or nearest to)	0.8	Cranial Implant
Pitch	1:1	1:1	All

- **Gantry tilt:** Zero (0)
- **Dose:** Use a low mA for bony structures of the head.
- **Field of View (FOV):** To include only the structures of interest to surgeon. For cranial implants, include the entire skull. Ideal - 20-25 cm
- **Archive:** Archive only the sub-millimeter spaced fine slice acquisition data in uncompressed DICOM format.

NOTE: Please include the completed **OMNIPORE** Customized Surgical Implant Order Form with CT Scan.

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