CT SCANNING PROTOCOL – REVERSE ENGINEERING

Thank you for reviewing this protocol. A CT scan of an object may be useful for reverse engineering. However, the design complexity and/or object materials may render the CT unusable or only useful as a guide. In such cases, 3D surface scanning and/or other imagery may be more appropriate. Please email Anatomics at contact@anatomics.com for further information.

REQUIREMENTS

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

CT SCANNING GUIDELINES

- Only provide the **original fine slice data** on disc, **NOT REFORMATS**.
- The following table outlines appropriate slice thickness and spacing combinations in millimetres:

Object Material	Slice Thickness	Spacing	Algorithm	Dose
Plastic	0.5 (or nearest to)	0.4 (or nearest to)	"Bone"	Low kV, low mA
Ceramic or Metal	0.5 (or nearest to)	0.4 (or nearest to)	"Standard"	High kV, high mA

- **Gantry tilt:** Zero.
- **Field of View (FOV):** To include only the entire object. Reduce air around the object.
- **Immobilisation:** Place the object on a foam block to separate from scanner table. Use other foam blocks as required to immobilise object.
- **Archive:** Archive only the fine slice acquisition data to CD or DVD in DICOM format.

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