***Datos (phoenix reconstruction software)***

Each sub-scan reconstructed separately then compiled in VGStudio Max.

1. Scan optimiser checks for movement.
2. Beam hardening correction (Bhc+) correction of 7. Corrects for how x-rays soften as beams move through dense material.
3. ‘Edge enhancement’ selected.
4. Area not containing specimen cropped.

***VGStudio Max 2022.4***

1. Cropped scan down in preview window.
2. Defined background (air) and material using aluminium rod in scan as fixed density point.
3. Surface determination.
4. Aligned sub-scans and merged them.
5. Removed all material that is not the specimen (e.g., packing, aluminium rod).
6. Simple registration i.e., scan aligned until axis is aligned with body and limbs in the best view.
7. Background removed by dilating specimen area by 15 voxels and exporting image stack.