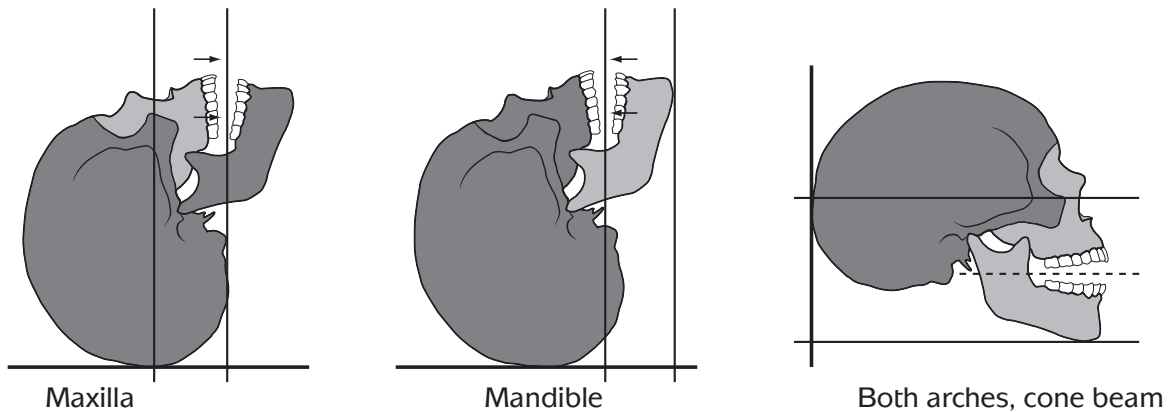


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CT Scanning Protocol

Patient Orientation

Scan the patient face up or forward and make sure the patient's head is not tilted to either side. When scanning single jaws (mandible or maxilla), orient the patient's head so that the axial images are parallel to the occlusal plane of the radiopaque teeth on the patient's CT Scan Appliance. When scanning double jaws (mandible and maxilla), split the difference between the occlusal planes of the jaws. If no CT Scan Appliance is available, separate arches with a bite block.



Fiducial markers (3 markers on CT Scan Appliance) are critical to the Pilot Compu-Guide fabrication process. Scan at least 2mm beyond the tips of the fiducial markers, ensuring all 3 fiducial markers appear in the scan. Ensure sure that the field of view includes all teeth and all fiducial markers.

It is important that all scans are reviewed for patient movement prior to submission. Scans that indicate patient movement should not be used for treatment planning purposes.

Preferred Scanning Parameters

| | |
|---------------------------------|--|
| • Image size | 512 x 512 pixels |
| • Gantry tilt | 0.0 degrees (required) |
| • Scanner slice thickness | 0.5 - 1.0 mm |
| • Scanner step increment | 0.5 - 1.0 mm |
| • Reconstruction algorithm | Bone |
| • Reconstructed slice thickness | 0.5 - 1.0 mm |
| • Reconstructed slice spacing | 0.5 - 1.0 mm |
| • Scout image | Optional |
| • Field of View (FOV) | Typically 150-180 mm. |
| • Format | DICOM 3.0 data with DICOMDIR. Axials and optional scout(s) only. Multi-file format images only - not single file format images. |
| • Compression | None |
| • Media | CD-R or Zip disk. |