Design. Deliver. Support.

Suggested Intra-oral Scan Image Acceptance Standards

DDS LAB

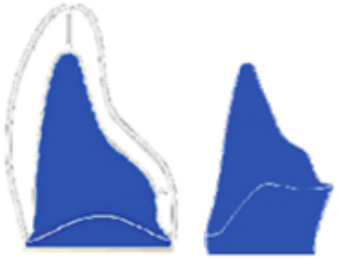
Index

Requirements for prep

The occlusal reduction of the prepped tooth should conform to the product parameters of the material selected for the restoration.

Anterior Preps, incisal edge ≥ 1.5mm minimum reduction, facial & lingual surface ≥ 1.0mm minimum reduction, margin > 0.8mm. A shoulder or chamfer prep is recommended.

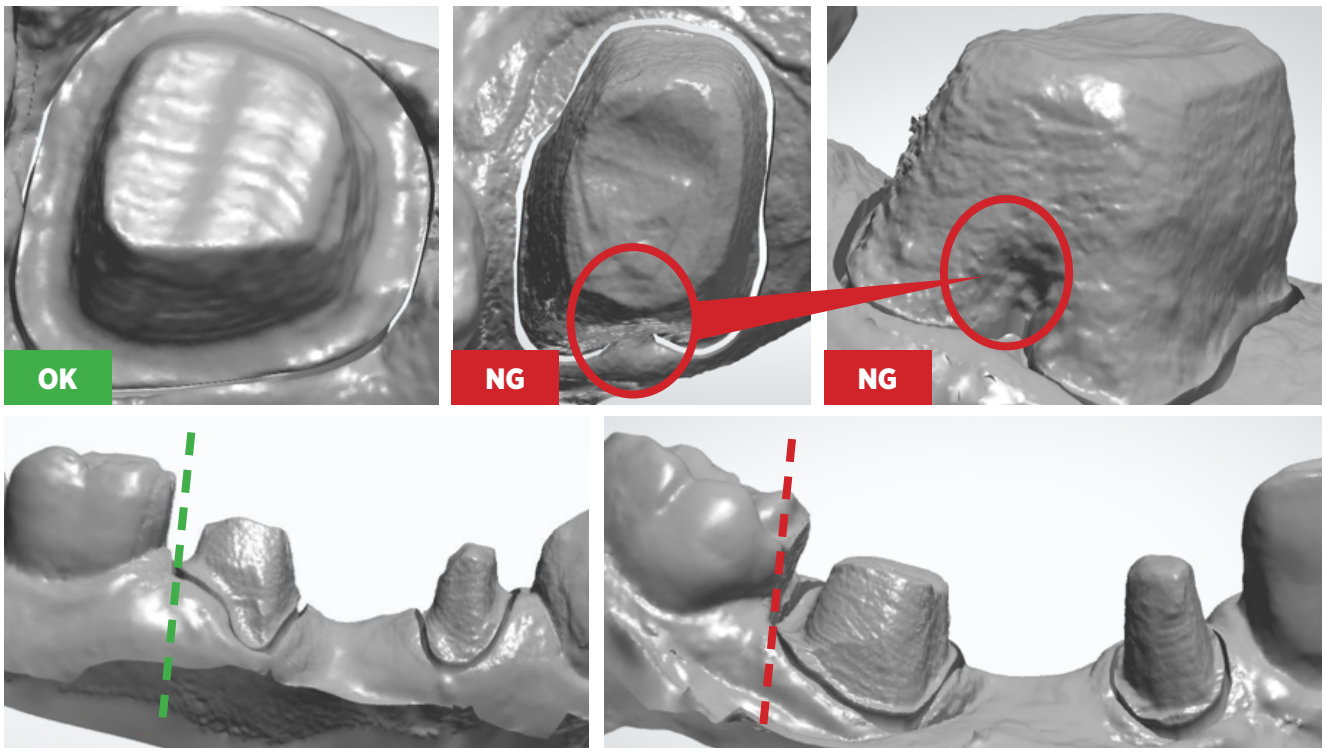
Posterior Preps, occlusal fossa ≥ 1.5mm of minimum reduction, occlusal cusp ≥2mm minimum reduction, axial surfaces > 1.0 -1.5mm, margin > 0.8mm reduction. A shoulder or chamfer prep is recommended.



Anterior
incisal edge ≥ 1.5mm,
surface ≥ 1.0mm,
margin > 0.8mm

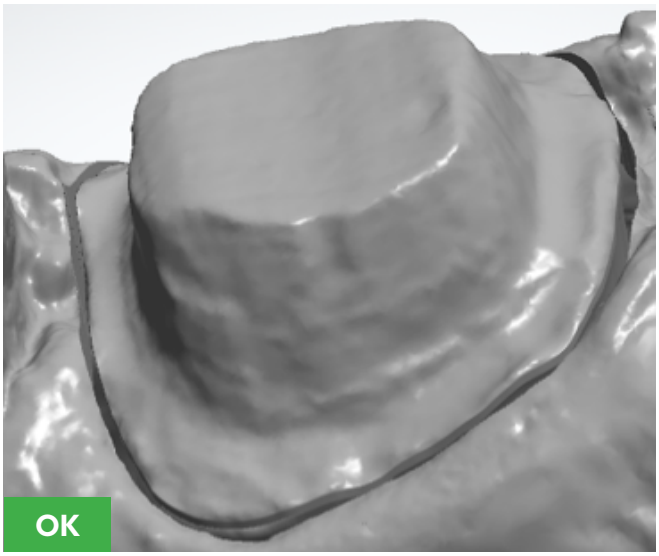
Posterior
occlusal fossa ≥ 1.5mm,
occlusal cusp ≥ 2mm,
surface > 1.0-1.5mm,
margin > 0.8mm

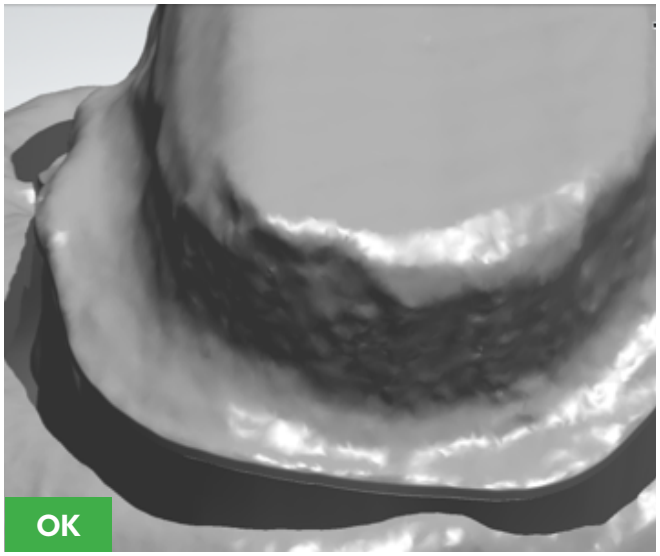
Ideally, there should be no undercuts on the prepped tooth. If undercuts are present; they should be either blocked out or removed. For bridges; the preps should be parallel, with the same path of insertion between abutments. Convergent or divergent preps can prevent the bridge from seating and may be rejected at the design phase; or will require further adjusting at the seat appointment.



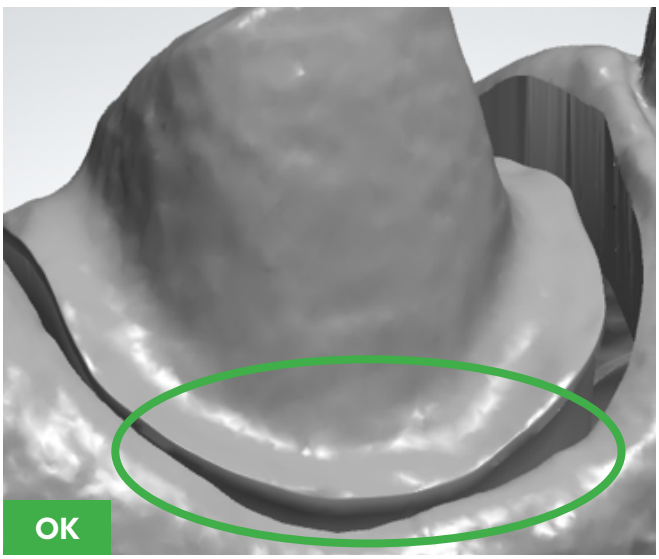
The surface of prep tooth should be smooth. Sharp corners and edges should be avoided as they can cause ill-fitting restorations or fracture issues.

Prep a clear shoulder or deep chamfer margin, unless monolithic zirconia is being used. Use of gingival retraction or laser is highly recommended.

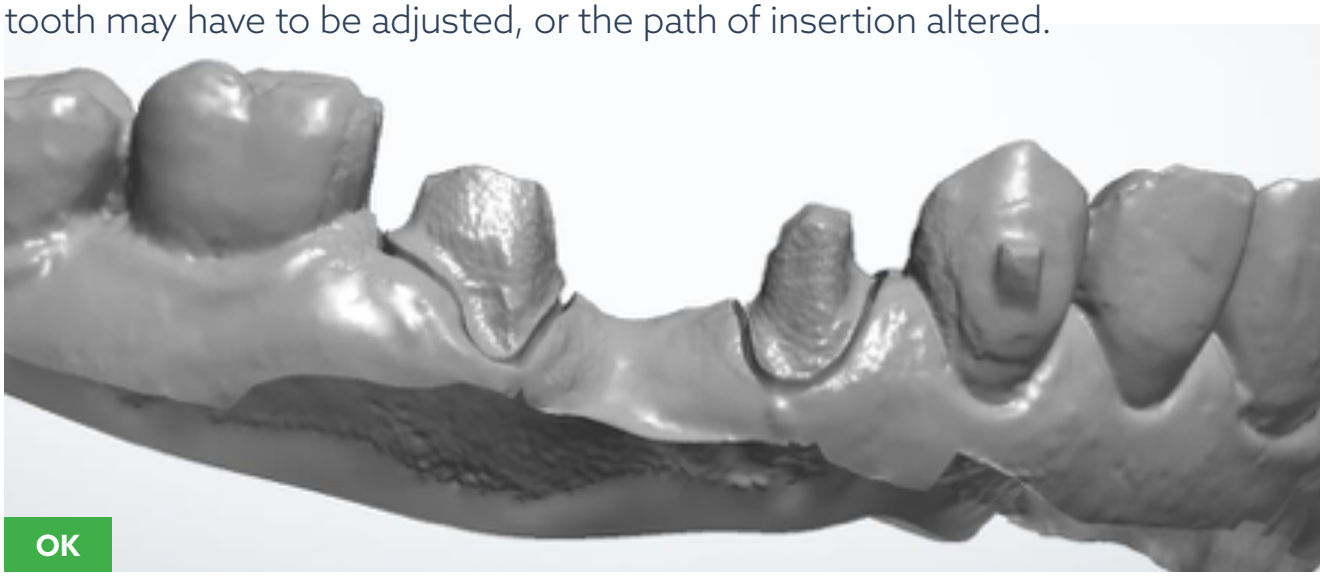


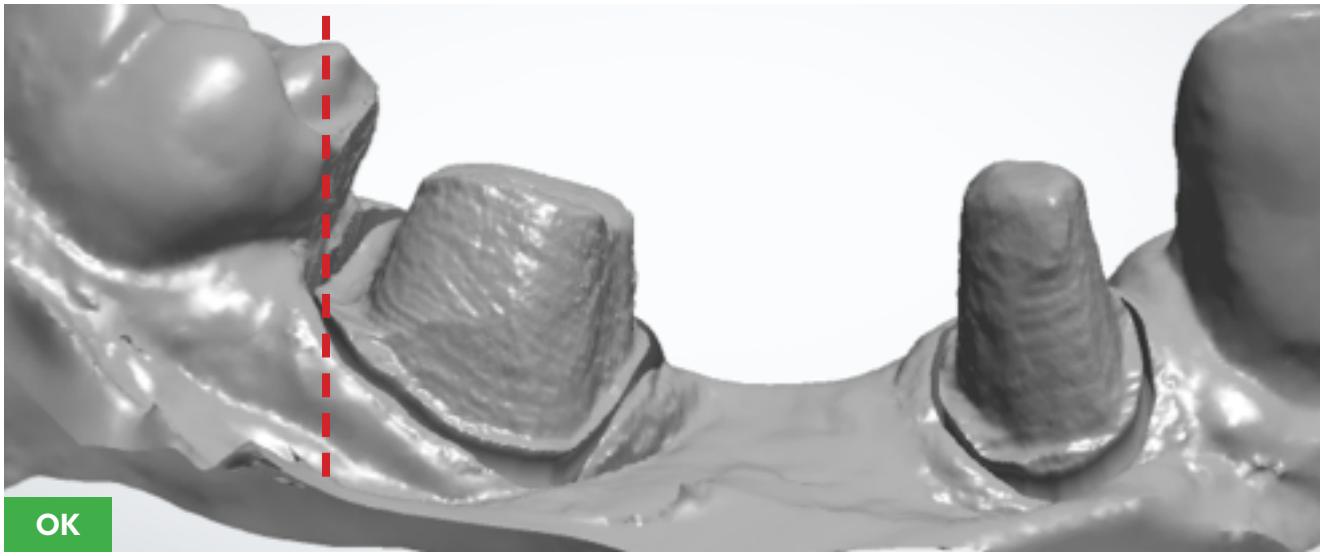


The margin line of the prepped tooth should be smooth. A zig zag, or rough margin line can cause fit issues such as open or short margins.



Ensure there are no undercuts on the tooth prep. Ideally, for a bridge; there should be no interference or draw issues caused by an adjacent tooth being convergent or impinging on the prepped tooth. When necessary; the adjacent tooth may have to be adjusted, or the path of insertion altered.



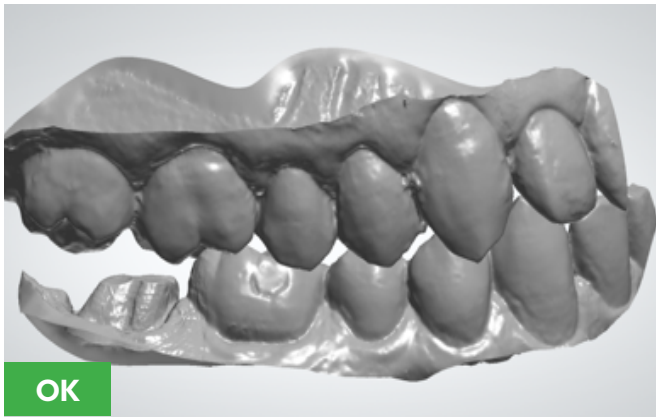


Tip: Keep the areas being scanned completely dry. Be sure to have extra cotton rolls.

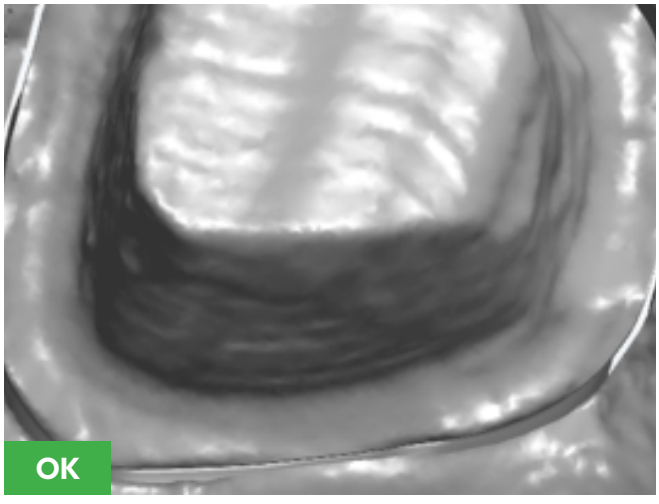
Requirements for intraoral

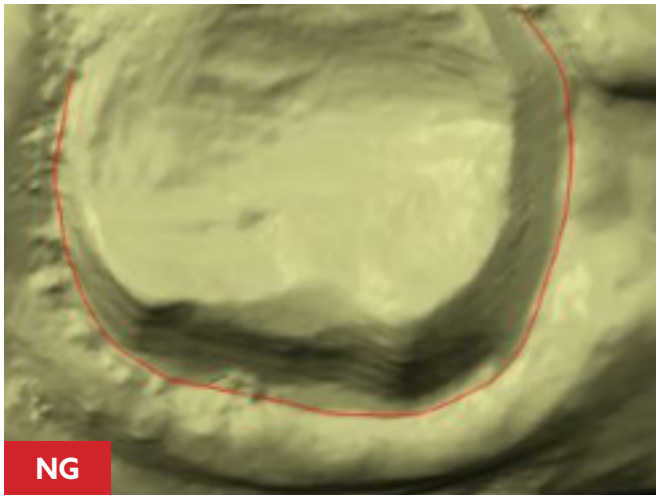
Prep

Scan working and opposing teeth completely. The successful scan should have at least 4-5 adjacent teeth for a single crown, and 6-8 adjacent teeth for bridges to ensure proper occlusion. Verify that occlusal contact points are registered.

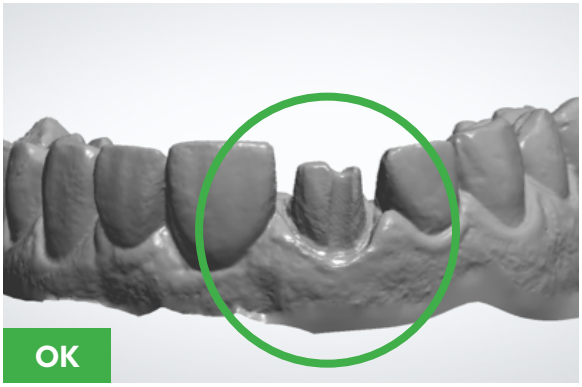


Clean up saliva and any debris in the scan area, in order to have a clear and accurate scan image.



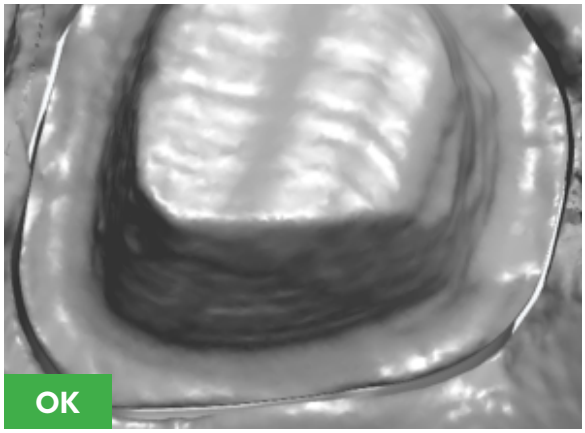


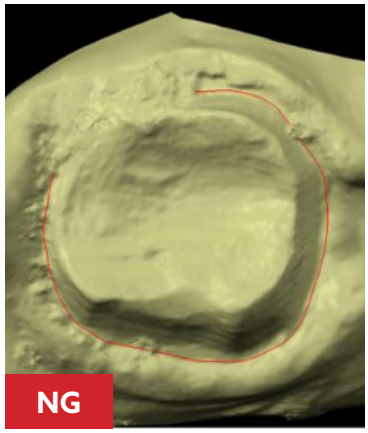
For anterior scans; the contra-lateral teeth must be registered in the scan to provide a design reference. This is crucial to achieve symmetry with the adjacent teeth.

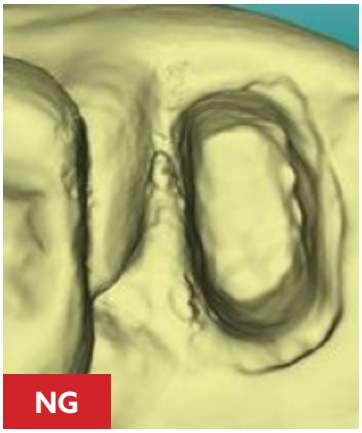


Margin

Clean up any blood or debris to ensure the margin is easy to be read by the scanner

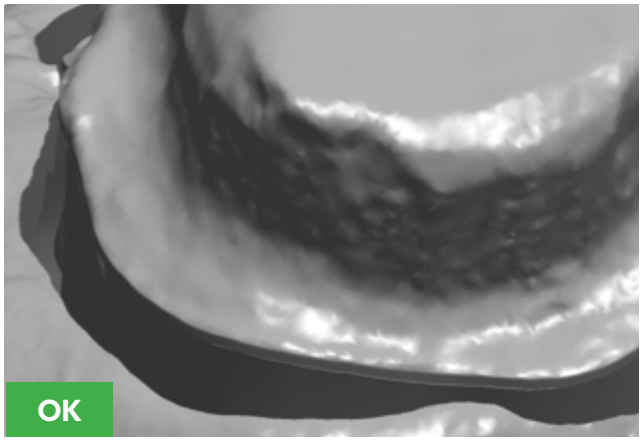


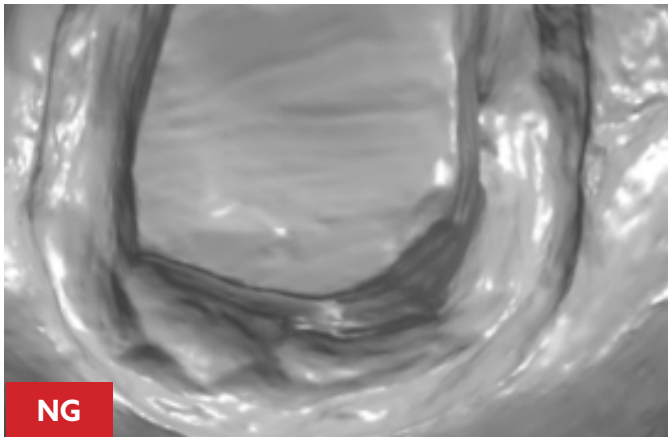




Tip: When scanning the arch, make sure contacts are included in arch scan, not with the prep scan.

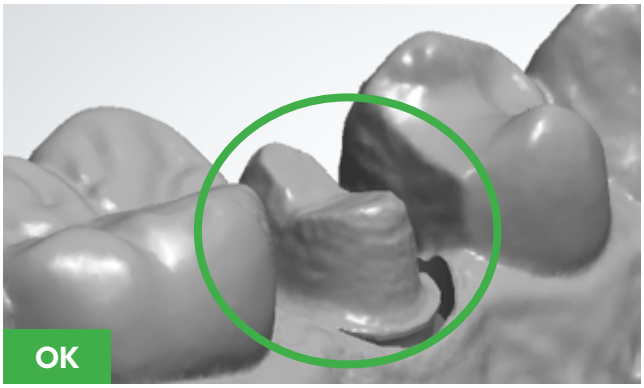
The prep and margin should be clear. Use of gingival retraction cord, double gingival retraction cord, or laser is highly recommended for a successful scan image. If cord is used; it should be removed just prior to the scan.

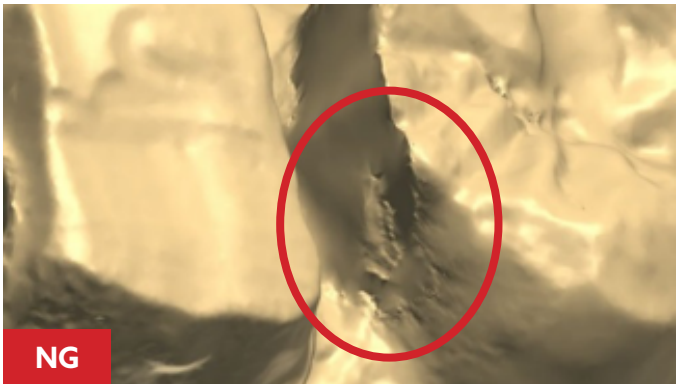




Contact

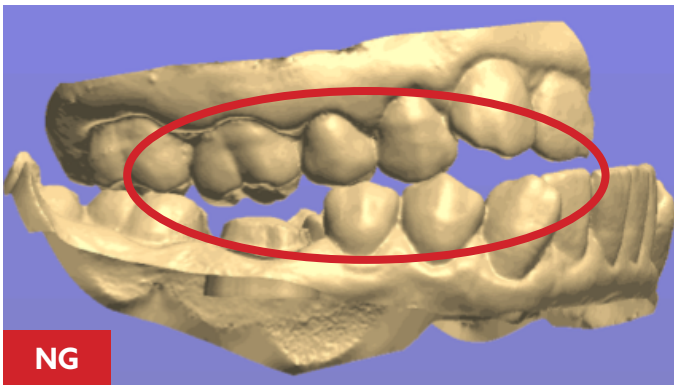
Ensure that the scan registers a clear and complete interproximal contact area.



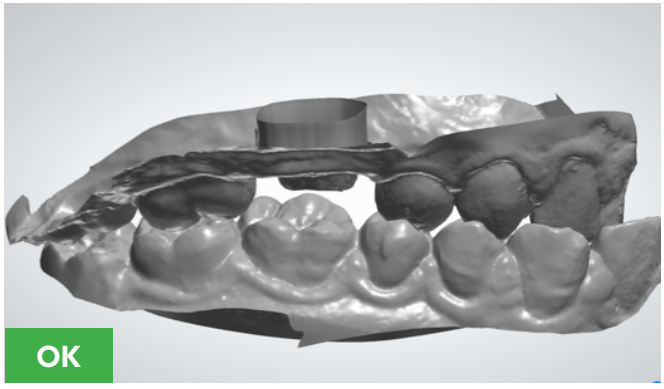


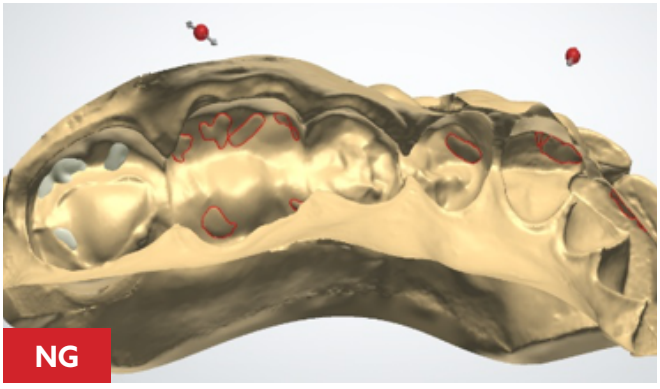
Occlusion

Have the patient close into normal centric during the occlusal relationship scan phase.

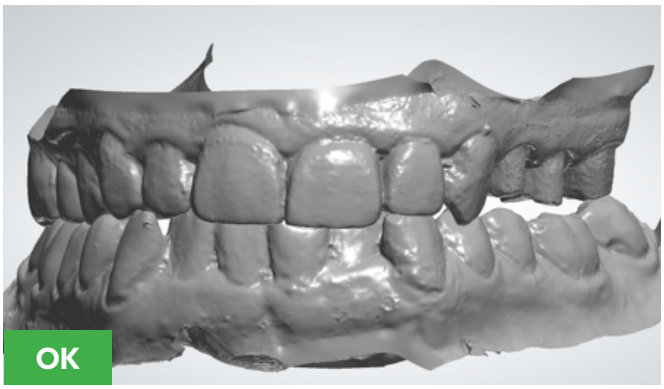


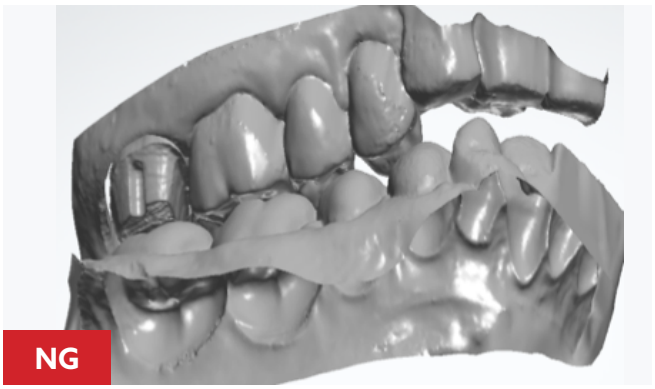
Scan the opposing occlusal surface, buccal & lingual surfaces completely. Register appropriate gingival tissue. The scan area should be the same as the working side.





If a number of teeth are missing; scan multiple occlusal contacts or scan the full arch in order to register an accurate occlusal relationship.

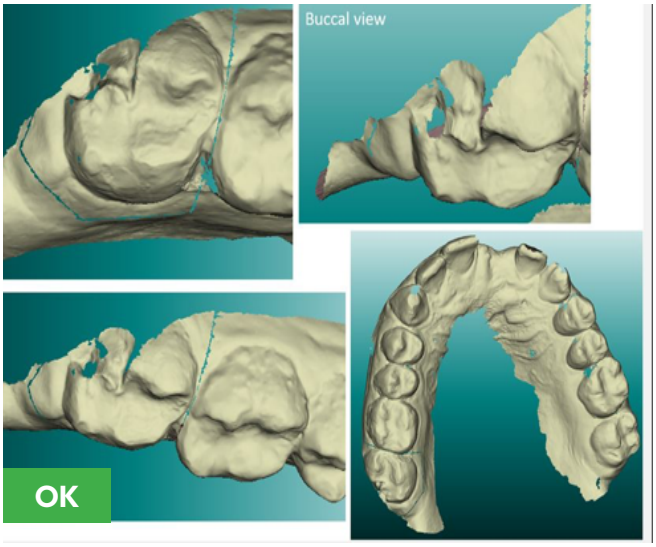




Tip: Make sure the wand is being used properly. If cord is used; it should be removed just prior to the scan.

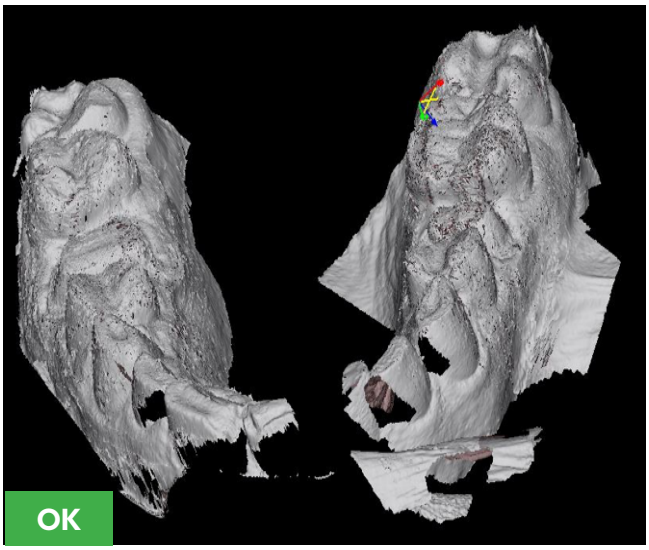
Missing data

Scan should be complete or a rescan will be necessary.



Distortion

Scan should show clear, clean contrast with no fuzziness, pitting or debris on models.



Tip: Select the settings option and make sure the restorative box is selected. This will show any areas that have not been scanned and will allow you to re-scan those missed areas.

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- View account balance and pay invoices online
- View impression reports and scores

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