

Digital Workflows

That Can Help You Reach Your Goals

A Guide To Digital Scanning by: Vega's Dental Lab 567-712-1424

COPY DENTURES (No Changes)

1. Scan the current denture(s) 360 degrees

COPY DENTURES (Increasing Retention)

1. Take a functional wash impression in occlusion
 - a. It is recommended to use a coeflex material for this impression
2. Trim any excess impression that is covering the tooth anatomy
3. Scan the current denture(s) 360 degrees

REFERENCE DENTURES

For using a current denture to make a new setup with some changes (midline, smile line, plane, VDO, increased retention, etc)

1. Take photos of the patient wearing the current denture(s) for esthetic reference
2. Take a functional wash impression in occlusion
 - a. It is recommended to use a coeflex material for this impression
3. Trim any excess impression that is covering the tooth anatomy
4. Scan the current denture(s) 360 degrees

NEW DENTURES (No Current Dentures) Option 1

1. Take an alginate impression of the patient's mouth
2. Scan the impression (You will then receive a bite block)
3. Take a wash impression and bite with the bite block
4. Mark the midline, smile line, and position of canines
5. Scan the inside and buccal side of the bite block, both upper and lower, and the bite relation

NEW DENTURES (No Current Dentures) Option 2

1. Scan soft tissue in the patient's mouth (You will then receive a bite block)
2. Take a wash impression and bite with the bite block
3. Mark the midline, smile line, and position of the canines
4. Scan the inside and buccal side of the bite block, both upper and lower, and the bite relation

NEW DENTURE (Current Denture With Natural Opposing Teeth)

1. Take photos of the patient wearing the current denture for esthetic reference
2. Take a functional wash impression in occlusion
 - a. It is recommended to use a coeflex material for this impression
3. Trim any excess impression that is covering the tooth anatomy
4. Scan the inside, buccal, and occlusal of the current denture, the opposing teeth, and the bite relation with the current denture in mouth

IMMEDIATE DENTURES

1. Scan upper and lower with full palate and soft tissue
2. Scan bite relation

CLEAR ALIGNERS

1. Take photos from various angles for esthetic reference and a panoramic x-ray
2. Scan upper and lower and the bite relation
 - a. AT LEAST 3mm into the gum line on buccal and 10mm into the lingual and palatal

COMMON MISTAKES TO AVOID

- 1. Taking a wash impression that is not functional/in occlusion**
 - a. Holding the impression with the hand will more than likely guarantee fit failure in the new denture
- 2. Moving the wash impression material**
 - a. This will result in an ill-fitting denture, and possibly in scan failure
 - b. Avoid touching the inside of the denture/bite block as much as possible
 - c. Ensure the material is held firmly in place when it must be touched
- 3. Sending a scan with distortions or missing areas**
 - a. Be sure to keep lips, cheeks, tongue, and fingers out of the scan
 - b. Scan the FULL bone and palate area when scanning intraorally and the FULL denture if scanning extraorally
 - c. Ensure there are no large holes and the scan looks the same as the mouth/denture before sending
- 4. Scanning too much bite relation data**
 - a. Attempting to gather as much bite relation data as possible often results in an inaccurate bite scan
 - b. Stop scanning immediately after the scan software registers both the upper and lower jaw position
- 5. Scanning an incorrect bite relation**
 - a. If the patient appears to be uncomfortable or putting in too much effort, they are not in the correct position and can be instructed to swallow to reach their natural occlusion
- 6. Not scanning 360 degrees when needed**
 - a. A 360 degree scan means scanning all the way around the entire denture - top, bottom, sides, edges, EVERYTHING!

Feel free to call Vega's Dental Lab with any questions about these workflows.