

# MDL Digital Denture Workflows

## Clinical Options and Solutions

In this PDF are the most common workflows for digital dentures.

Depending on the prosthetic variables involved select a workflow then follow clinical steps. The technical steps are listed to help in communication and understanding of the proper digital sequence in each workflow. With some cases these workflows might be combined for example, when designing an immediate denture opposing an edentulous arch, to provide a complete maxillary and mandibular set of digital dentures. Depending on prosthetic variables involved, proposed workflows might be modified.

# Digital Denture Workflow Solutions

- Duplicate Denture (2 appointments)
- Immediate Denture (2 appointments)
- Copy Denture (2 appointments)
- Reference Denture (3 appointments with Trial Denture)
- Monobloc Printed Diagnostic Trial Denture

# Duplicate Digital Denture Workflow

The Duplicate workflow is used when Dentist desires an exact duplicate of existing Denture or dentures. This workflow will not have any design changes to Intaglio, teeth or occlusion.



# Duplicate Denture Workflow

## Clinical

### Appt 1

Evaluate existing dentures  
Take photos of patient with dentures  
Patient's Desires and Expectations  
Select tooth and base Shade  
Mould will be duplicated from denture  
Scan Mx/Md Cameo and Intaglio Surface  
Scan Bite at Centric Occlusion  
Export files to Desired MDL Lab



## Technical

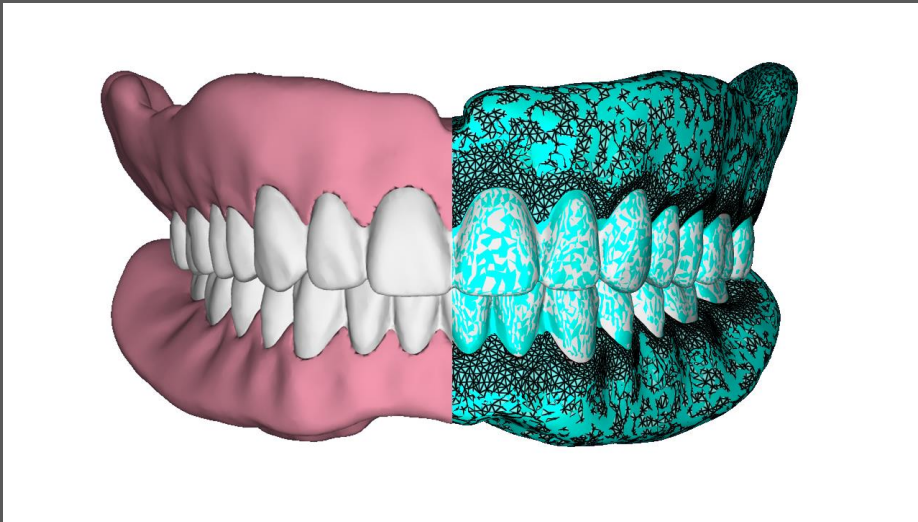
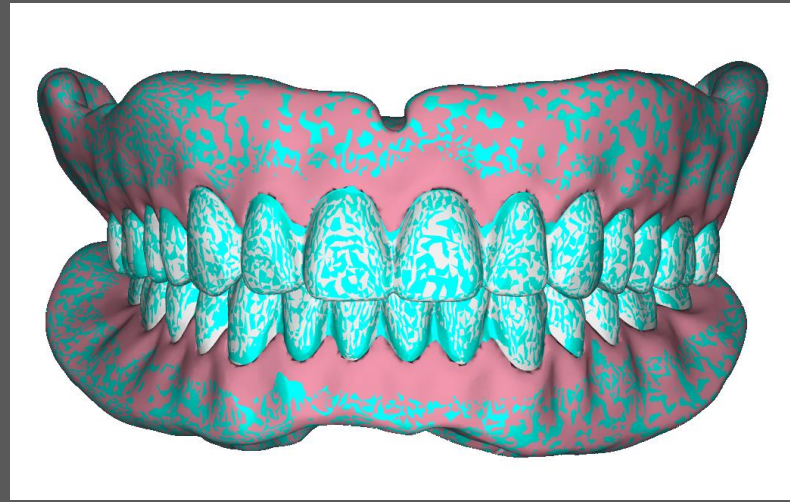
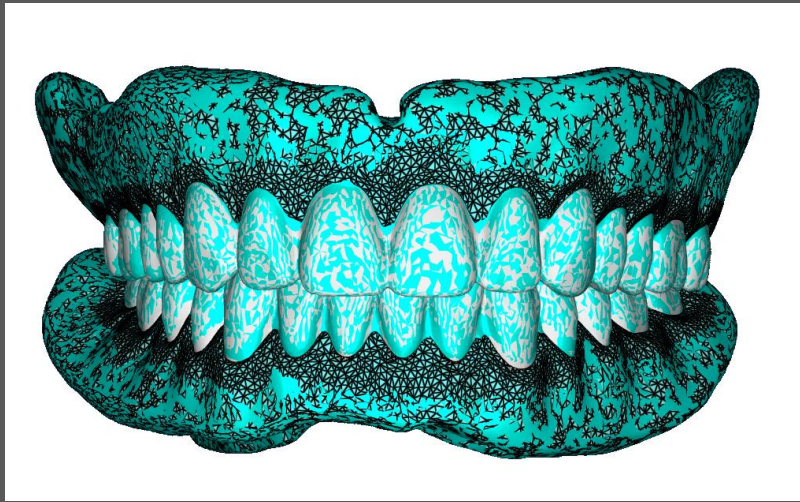
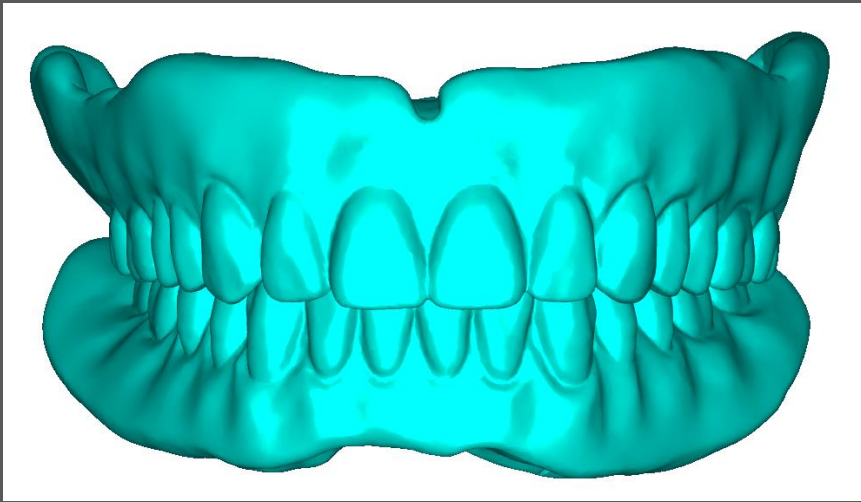
### Step 1

1. Import files from portal
2. Create Case in MT
3. Evaluate DATA
4. Design and DATA Analysis
5. Design according Checklist
6. Preview Design in Necessary
7. Receive STL Files place in queue
8. Mill Split file digital Dentures
9. Evaluate milled dentures
10. Bond Teeth to Base
11. Finish and Polish
12. QA/QC
13. Ship to customer



### Appt 2

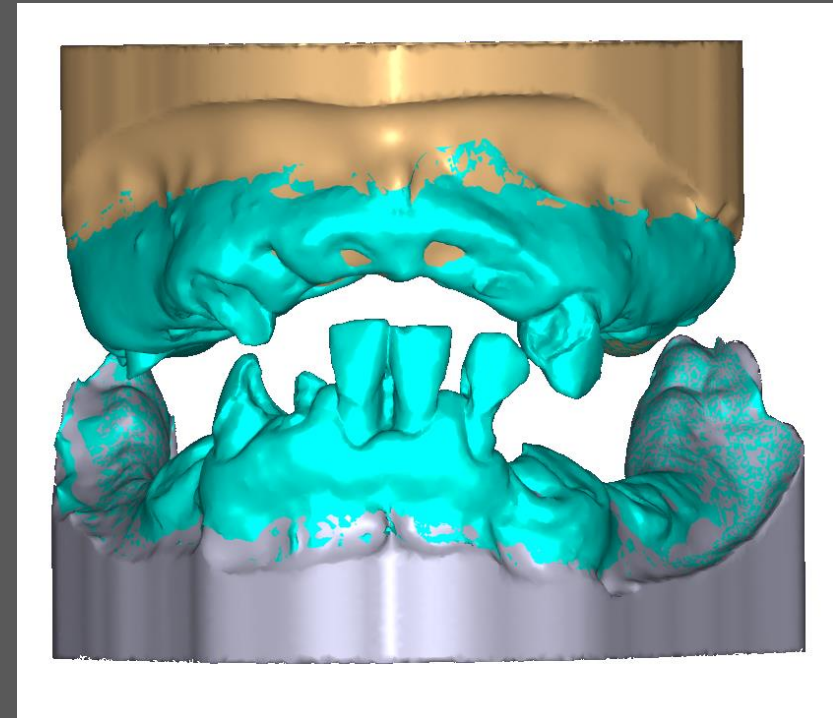
Insertion of Definitive Digital Denture



# Immediate Digital Denture Workflow

This workflow is used when terminal dentition will be extracted. Important clinical variables to understand.

- Are these traditional extractions?
- For traditional 1.5mm is reduced from gingival margin.
- Will any socket augmentation be done?
- Will any bone grafting take place?
- Are implants planned and will any alveoplasty be done during surgery?
- Will this be an immediate or conversion denture?



# IMMEDIATE DENTURE WORKFLOW

## Clinical

## Technical

### Appt 1

Evaluate existing terminal dentition  
Take photos of patient with dentures  
Patient's Desires and Expectations  
Select Shade and Mould  
Scan Mx/Md Soft Tissue and Dentition  
Scan Bite at Desired OVD & CR  
Export files to Desired MDL Lab



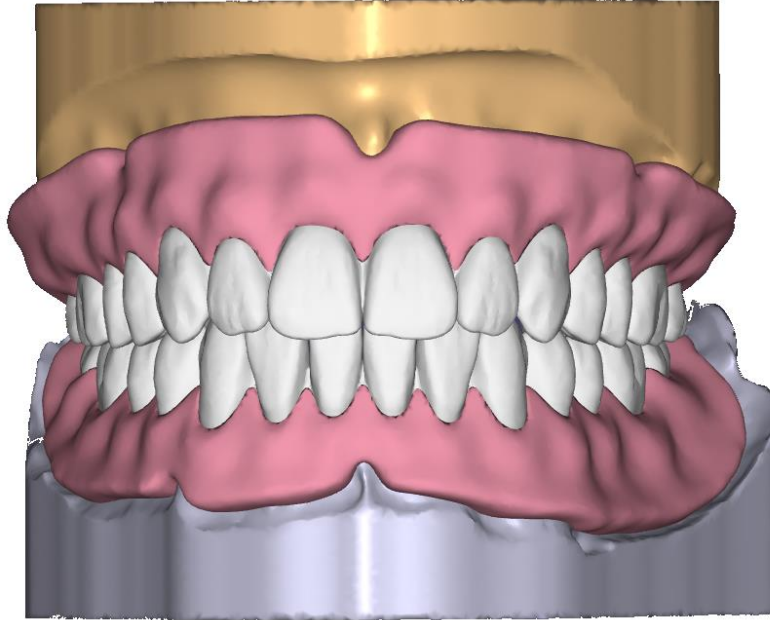
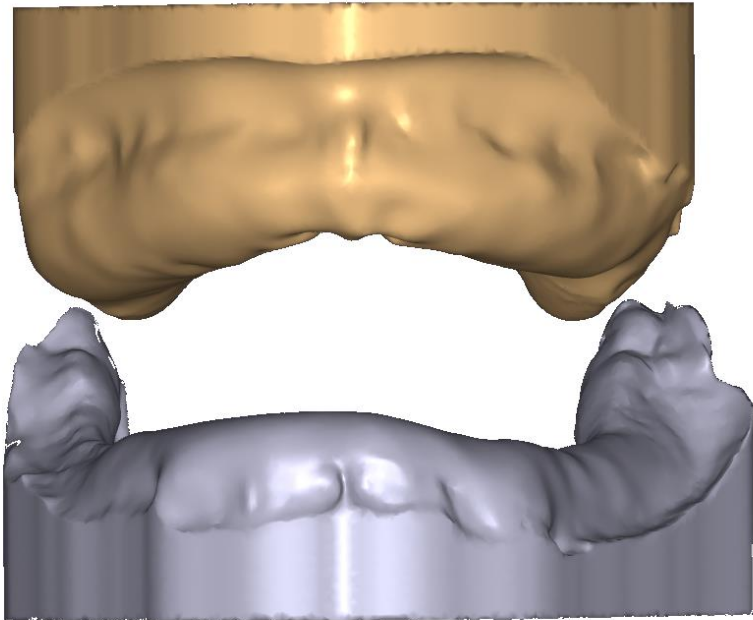
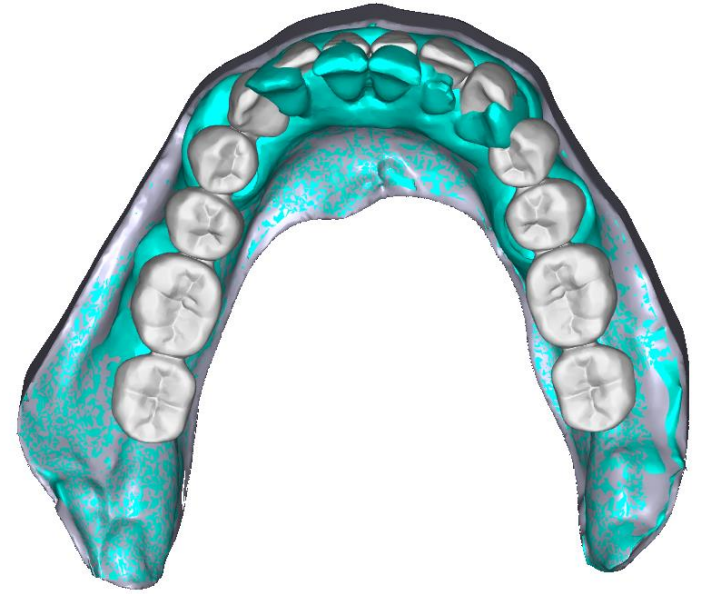
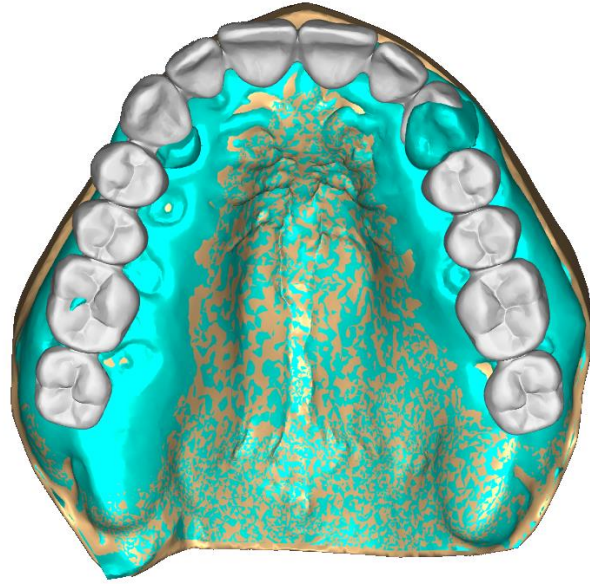
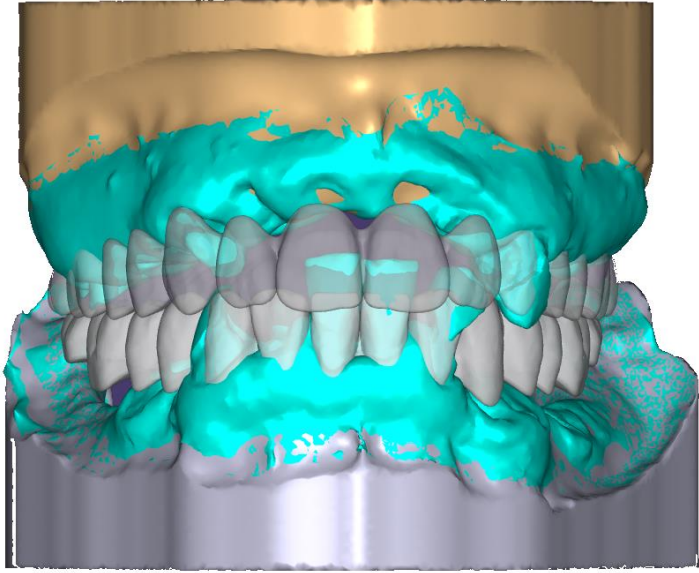
### Step 1

1. Import files from portal
2. Create Case in MT
3. Evaluate DATA /Physical Model work
4. Design and DATA Analysis
5. Design according to Checklist
6. Preview Design in Necessary
7. Receive STL Files place in queue for
8. Mill CAM5 or Split file digital Dentures
9. Evaluate milled dentures
10. Bond Teeth to Base if Split-File
11. Finish and Polish
12. QA/QC
13. Ship to customer



### Appt 2

Extractions and Insertion or  
Conversion

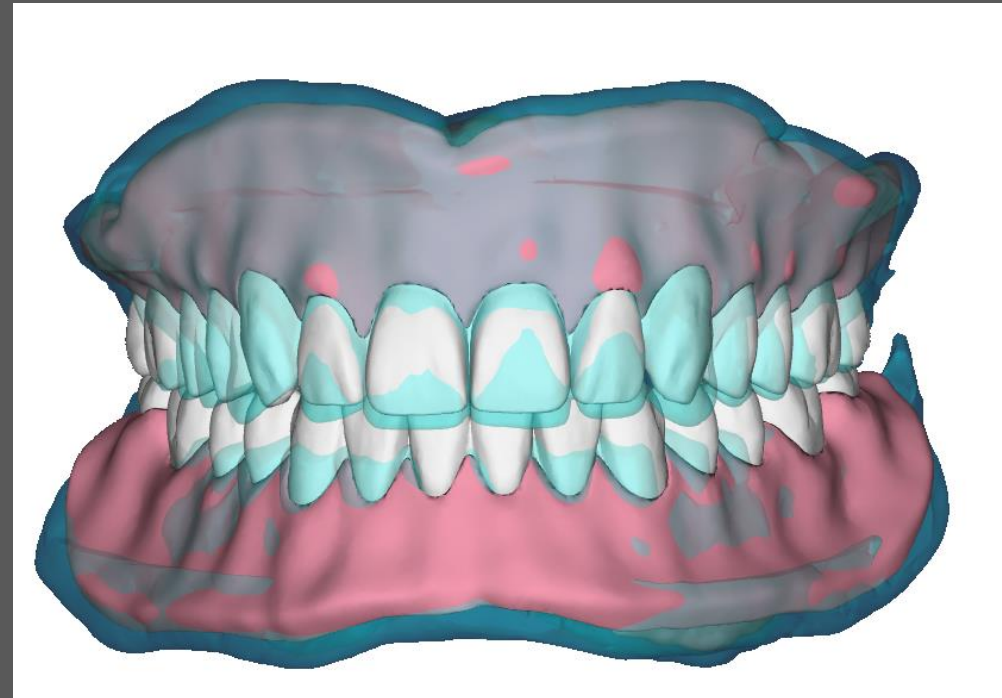


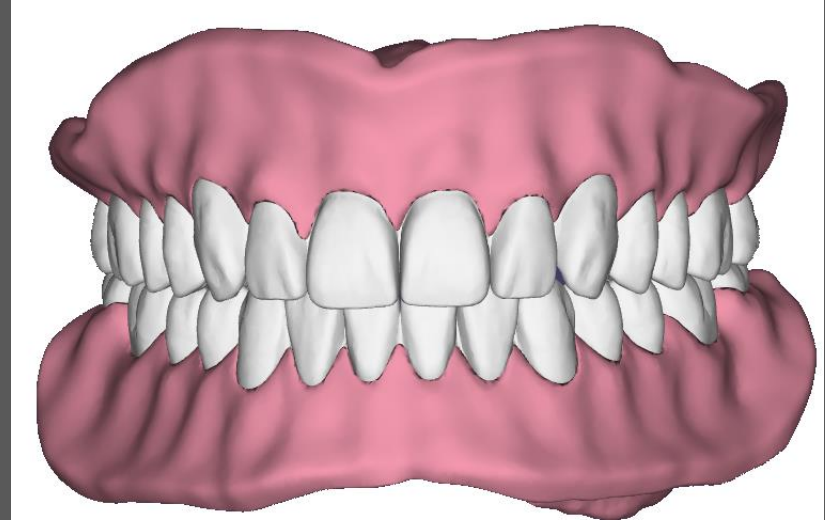
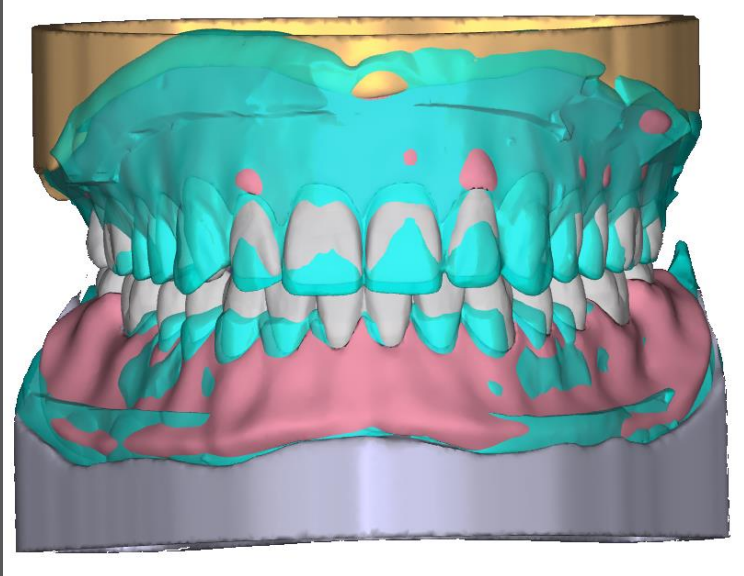
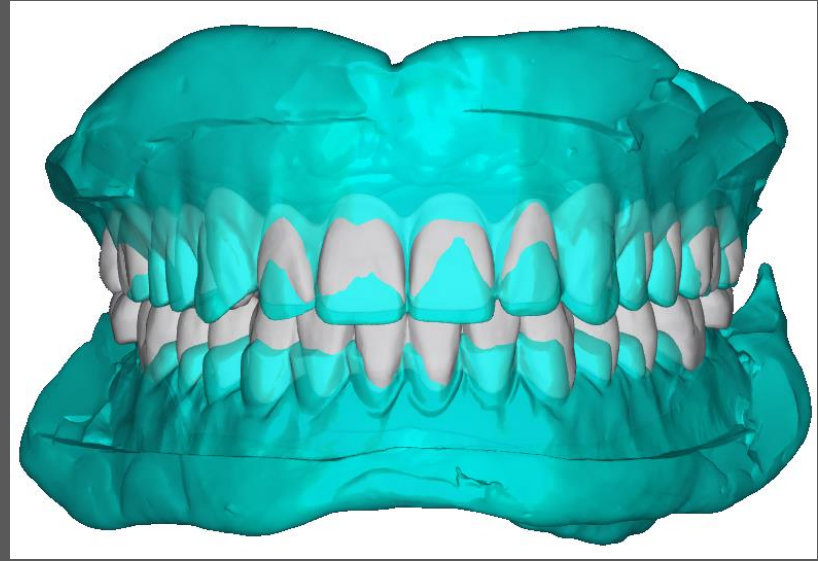
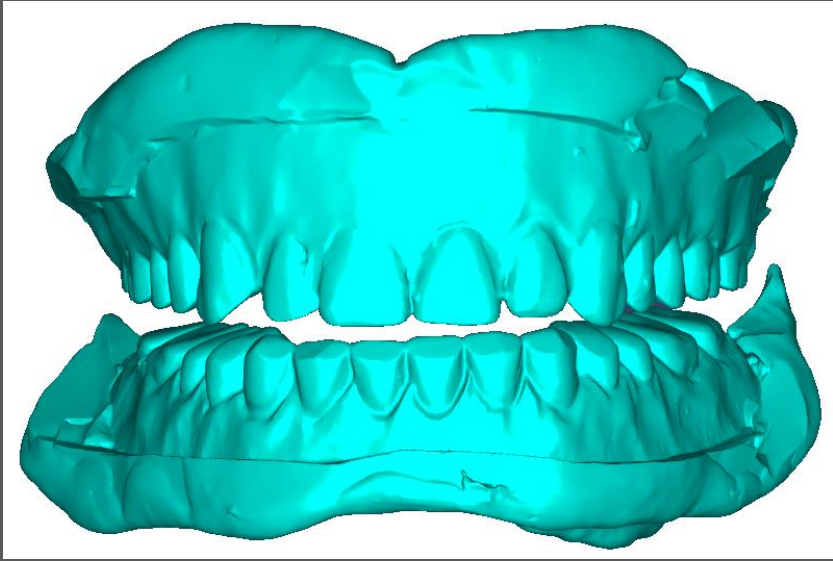


# Copy Digital Denture Workflow

This workflow is used when dentist desires a copy of existing denture but changes to intaglio from wash impression or new Posterior teeth due to significant wear.

Copy Dentures are designed for an STL split-file from scans of dentures with wash impression and check-bite record at desired relationship.





# COPY DENTURE WORKFLOW

## Clinical

### Appt 1

Evaluate existing dentures  
Take photos of patient with dentures  
Patient's Desires and Expectations  
Select Shade and Mould  
Wash Impression (Tissue Condition)  
Scan Mx/Md Dentures Cameo/Intaglio  
Scan Bite at Desired VDO/CR  
Export files to Desired MDL Lab



## Technical

### Step 1

1. Import files from portal
2. Create Case in MT
3. Evaluate DATA
4. Design and DATA Analysis
5. Design according to Checklist
6. Preview Design if Necessary
7. Receive STL Files place in queue
8. Mill Split file digital Dentures
9. Evaluate milled dentures
10. Bond Teeth to Base
11. Finish and Polish
12. QA/QC
13. Ship to customer



### Appt 2

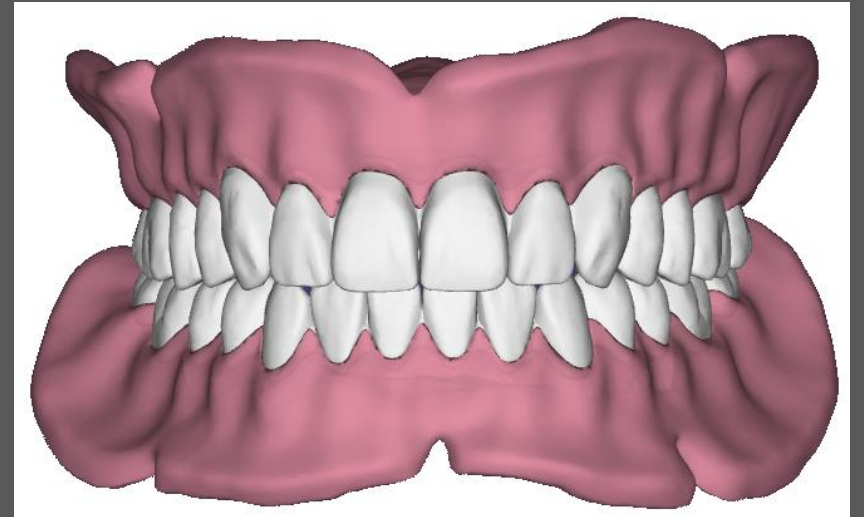
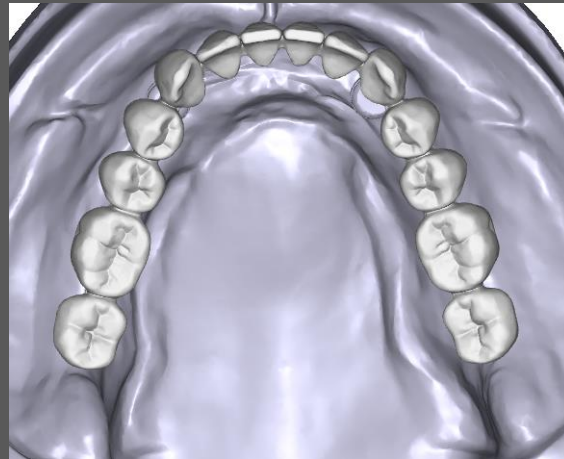
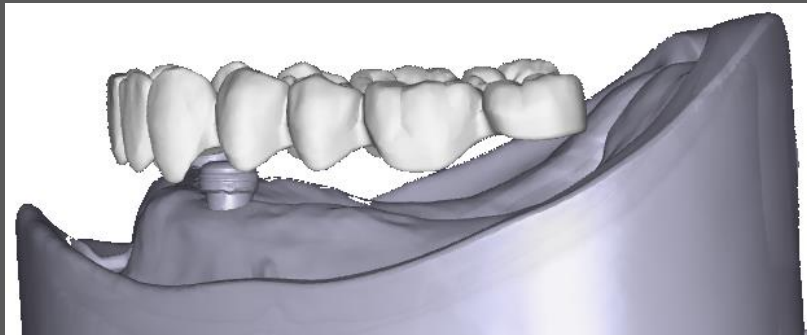
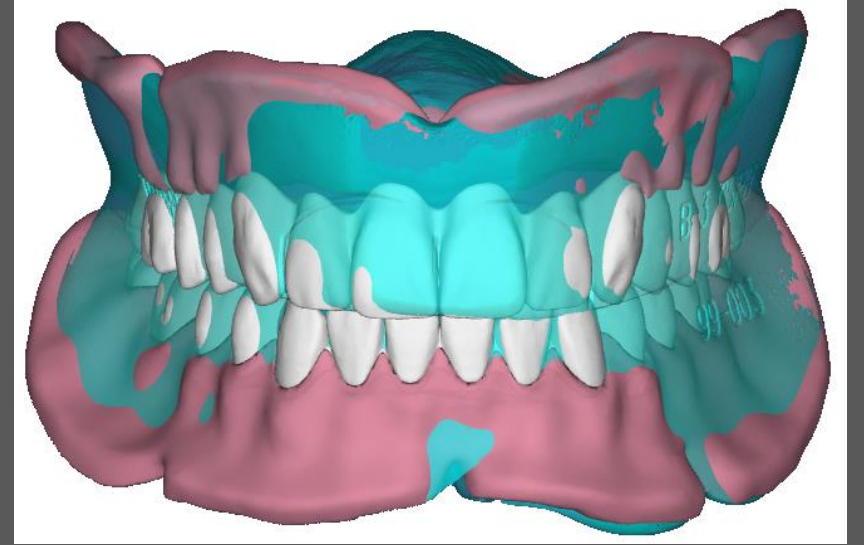
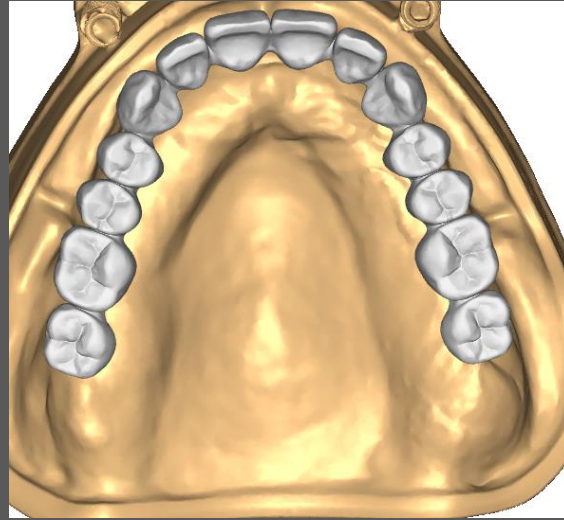
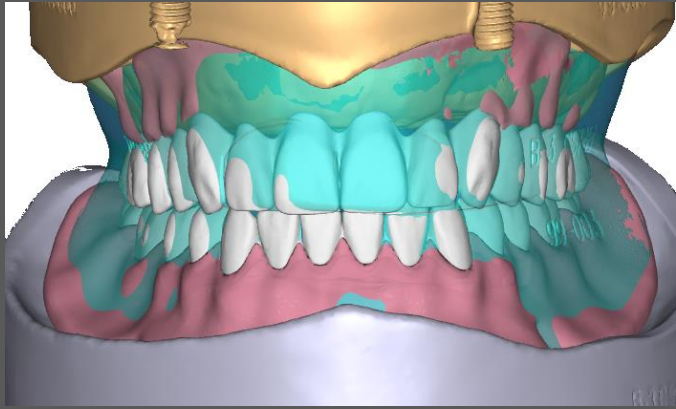
Insertion of Definitive Digital Denture

# Reference Digital Denture Workflow

This workflow is used when a reference such as wax occlusion rim, tooth set-up or existing denture is scanned.

This workflow can be done in either a CAM5 File format or STL. The variables are tooth shade and prosthetic space. If the tooth shade is not available in Ivotion Monolithic CAM5 then all A-D shades are available in STL Spilt-File format.





# Reference Denture Workflow

## Clinical

### Appt 1

Understand patients desires and expectations  
Analysis of existing denture if any  
Papillameter Measurement of Mx Lip at Rest  
Scan Reference; Cameo & Intaglio  
Scan Opposing if Single Arch  
Scan Bite  
Tooth Shade  
Photos  
Complete Rx for Monobloc design instructions  
Export STL files to desired MDL Lab



## Technical

### Step 1

1. Import files from portal
2. Create Case in MT
3. Evaluate DATA
4. Design and DATA Analysis
5. Design according to Checklist
6. Preview Design if Necessary
7. Receive STL or CAM5 Files place in queue
8. Mill Split file digital Dentures
9. Evaluate milled dentures
10. Bond Teeth to Base if Split File
11. Finish and Polish
12. QA/QC
13. Ship to customer

### Appt 2 Trial Denture



### Appt 3

Insertion of Definitive Digital Denture

# Monobloc Trial Denture Workflow

This workflow is used when a try-in is needed or requested by the dentist. The Monobloc printed Trial Denture enables the clinician to verify records, fit, function and esthetics of denture. If the try-in is verified then patient can take Monobloc home for testing speech, eating and fit while getting family and friends approval.







# MONOBLOC TRIAL DENTURE

## Clinical

### Appt 1

Understand patients desires and expectations  
Analysis of existing denture if any  
Scan Reference; Cameo & Intaglio or Impression  
Scan Opposing if Single Arch  
Scan Bite  
Select Tooth and Base Shade  
Photos  
Complete Rx for Monobloc design instructions  
Export STL files to desired MDL Lab



## Technical

### Step 1

1. Import files from portal
2. Create Case in MT
3. Evaluate DATA
4. Transfer Scan Files and Checklist
5. Preview Design if Necessary
6. Design Modifications if Necessary
7. Receive STL Files place in queue
8. Print Monobloc STL file
9. Post Printing Process
10. Evaluate Printed Monobloc
11. Finish and Polish
12. QA/QC
13. Ship to customer

### Appt 2

Evaluate fit, function and stability  
Evaluate esthetics and phonetics  
If design modifications are needed, then mark on teeth or base  
If Monobloc is not retentive then take a wash impression and bite scan  
If denture design is approved take a check bite scan, then export file

