



DWOS INITIAL TRAINING

VERSION 6.0

APRIL 25th 2016



 dental wings

DWOS™ PROSTHESIS DESIGN SOFTWARE

INITIAL TRAINING

DENTAL DESKTOP



- Change software language

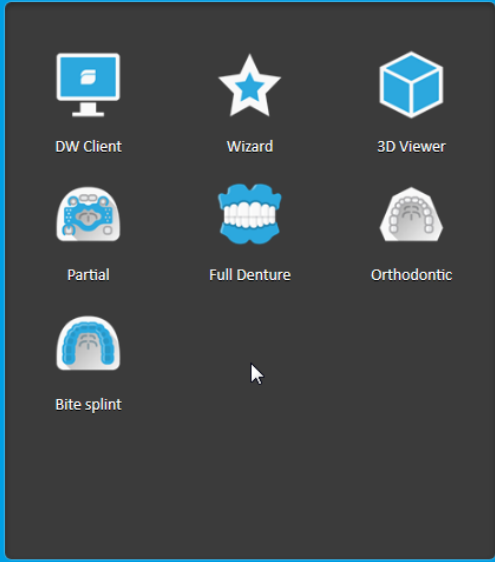
Exit



DENTAL DESKTOP

Design Tools

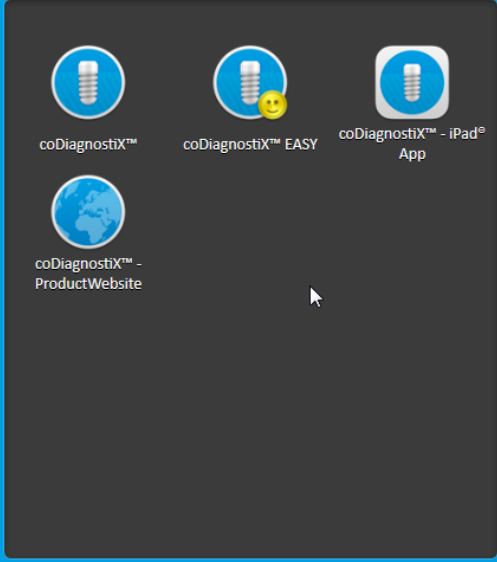
Access to all the DWOS™ software modules



- DW Client
- Wizard
- 3D Viewer
- Partial
- Full Denture
- Orthodontic
- Bite splint

Guided Surgery

Connectivity to Guided Surgery



- coDiagnostiX™
- coDiagnostiX™ EASY
- coDiagnostiX™ - iPad® App
- coDiagnostiX™ - ProductWebsite





TRAINING PROGRAM



- Easy to use
- 2 days
- How to use digital prostheses
- User's guide
- Work with :
 - Training models
 - Customer's models



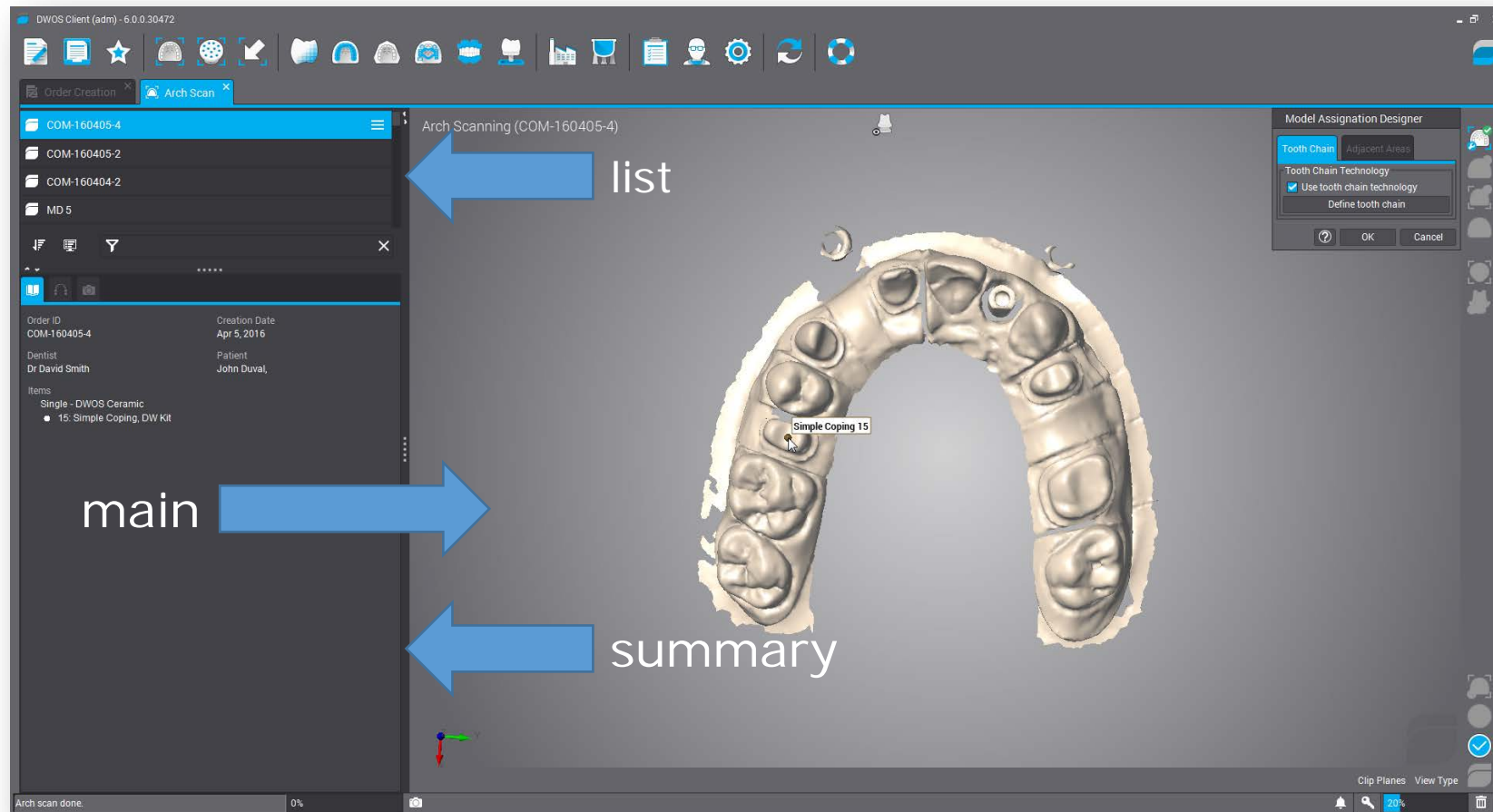
SOFTWARE BASIC PRINCIPLES-CONCEPTS



- Scanner: 7SERIES OR 3SERIES
- DWOS prosthesis design software
 - Administration tools
 - Multi-die & Arch Scan Application
 - CAD engine & CAD application
 - Anatomy Editor
 - Anatomy Libraries available at DWOS.com
 - Production manager
 - Optional modules

SOFTWARE BASIC PRINCIPLES-WINDOW

- Application window organization
- 3 areas: Resize, sort, arrange



SOFTWARE BASIC PRINCIPLES - MOUSE HANDLING

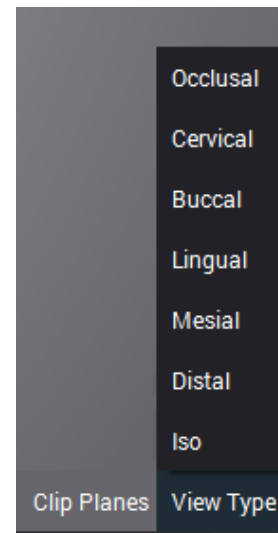
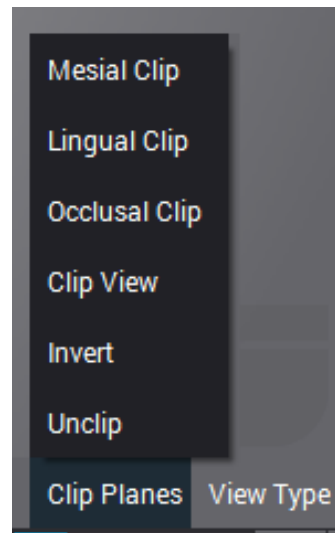
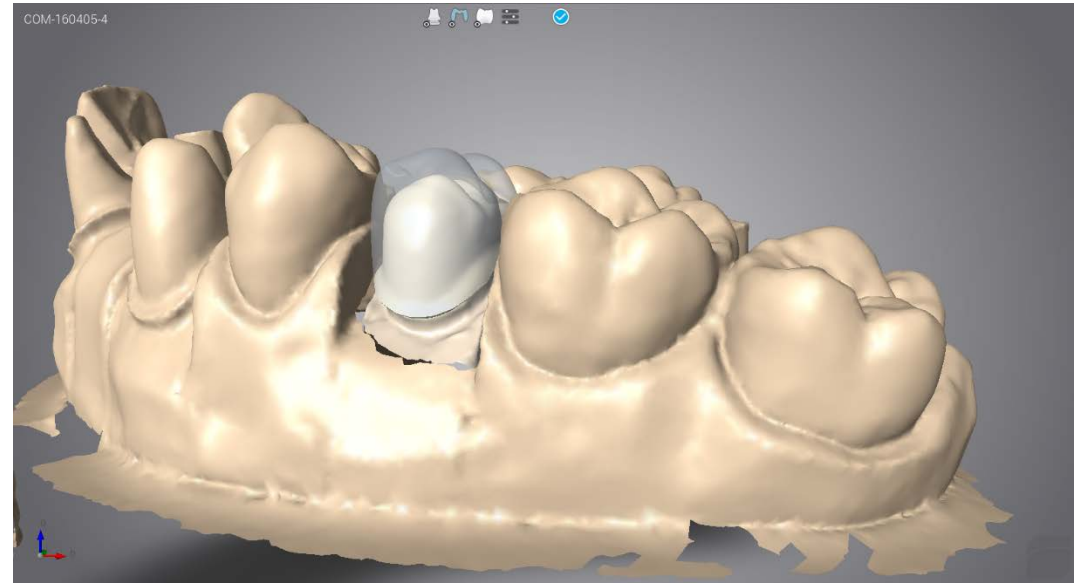


- Left click: menu, icon selection, point definition
- Right click: definition validation, access to local menu
- Rotating Wheel: zoom in/out
- Press & hold Wheel and mouse dragged: translates the view
- Right click and mouse dragged: rotates the view
- Wheel + CTRL key: cross section of the view
- Double left click: center and resize the view



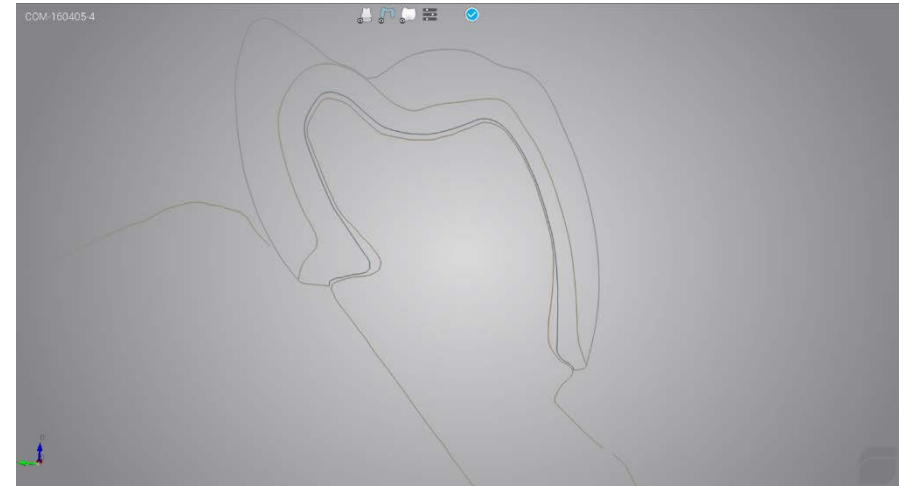
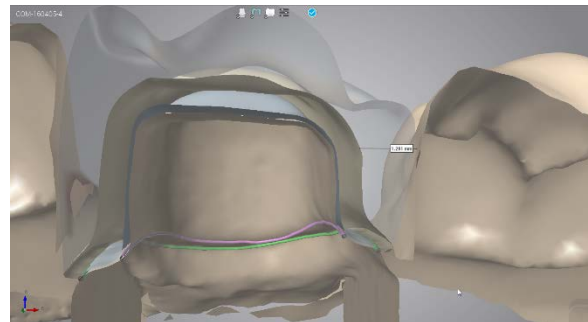
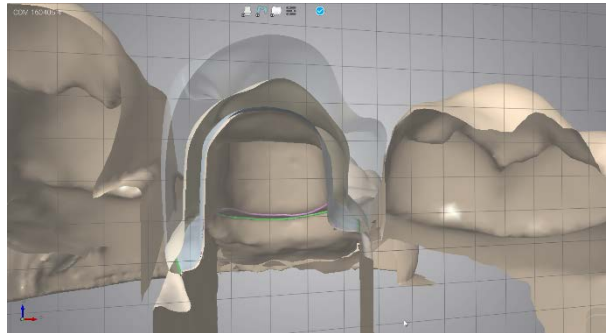
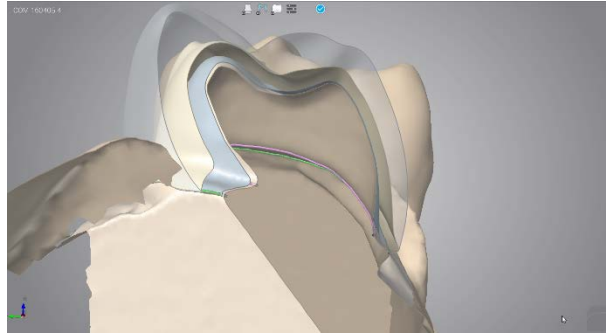
BASIC SOFTWARE PRINCIPLES-VIEWS HANDLING

- Full 3D display
- Predefined view type
- Predefined cross section (Clip)




















SOFTWARE BASIC PRINCIPLES - VIEWS HANLINGS

- Cross section
- Measuring grid
- Measuring tool



SOFTWARE BASIC PRINCIPLES - VISIBILITY



-   • Hide/show clinical preparation
-   • Hide/show undercut (scan application)
-   • Hide/show friction (scan application)
-   • Hide/show antagonist
-   • Hide/show anatomies
-   • Hide/show prostheses (hide also connector)
-   • Hide/show connectors
-   • Hide/show wax-up
-  • Transparency

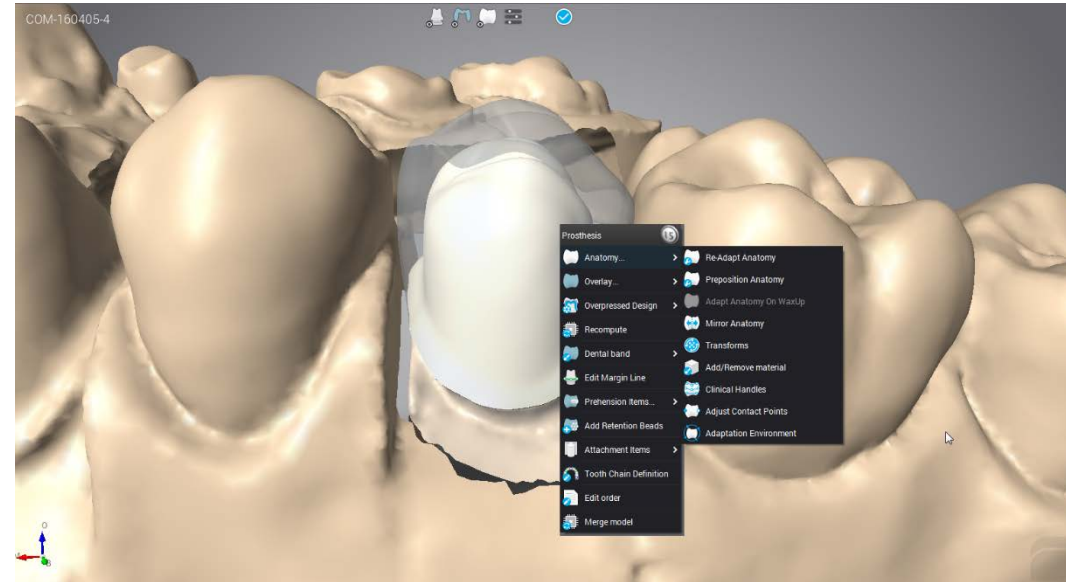




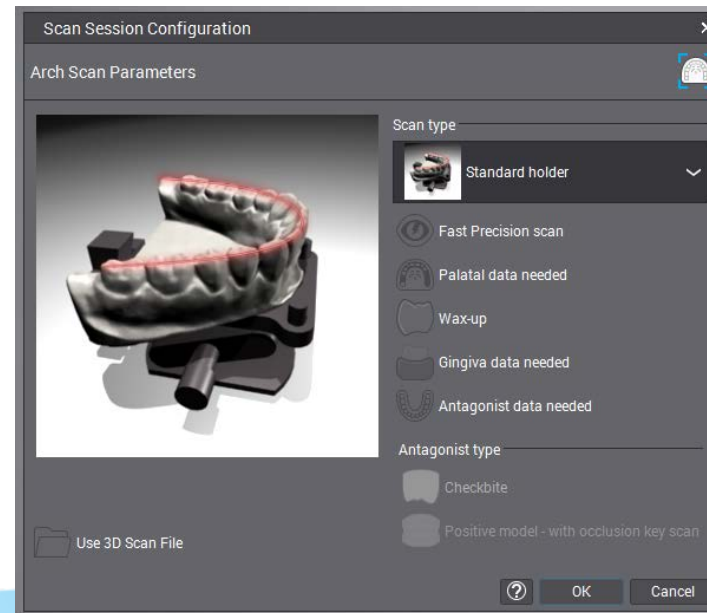
SOFTWARE BASIC PRINCIPLES-MENU & ASSISTANT



- Local menu



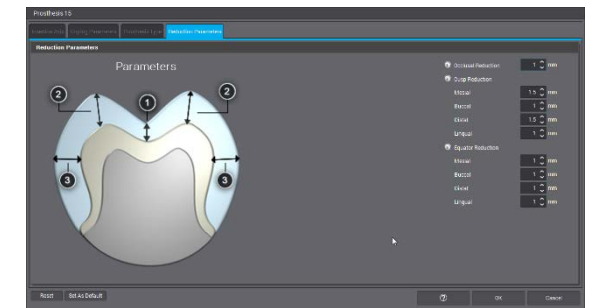
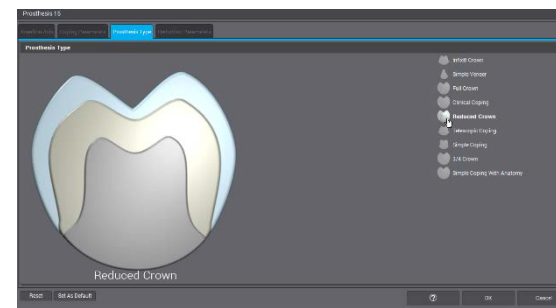
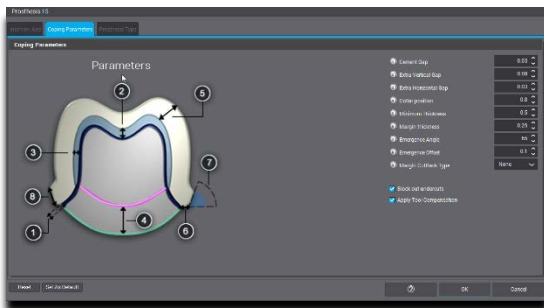
- Assistant





SOFTWARE BASIC PRINCIPLES - PARAMETERS

- Clinical parameters definition



- Parameters adjustment
 - Local
 - For the lab
 - Customized per dentist

ORDER MANAGEMENT

- **Cases identified by order number and order item**
 - One order number by model
 - One order item by prosthesis
 - One order number may include several order items
- **Data organized on a 3 level architecture**
 - Dentist
 - Patient
 - Order
- **Process divided in different operation steps**
 - Order creation
 - Scanning physical model
 - Designing prosthesis(CAD)
 - Production:in house or outsourced
 - Process divided in different operation steps





ORDER MANAGEMENT - ORDER CREATION



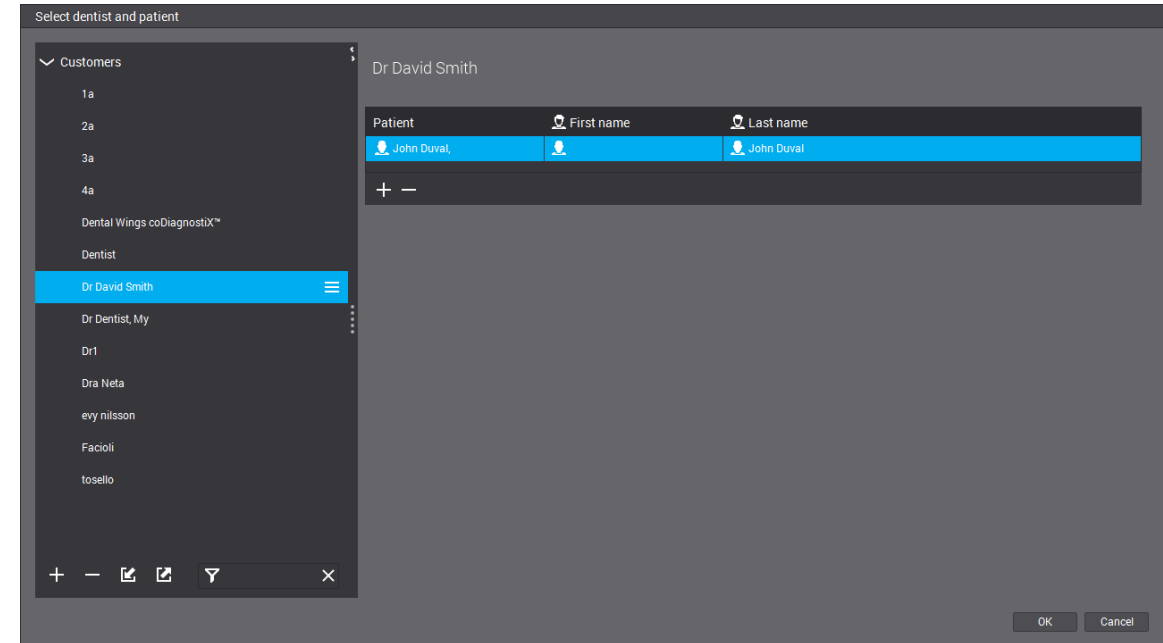
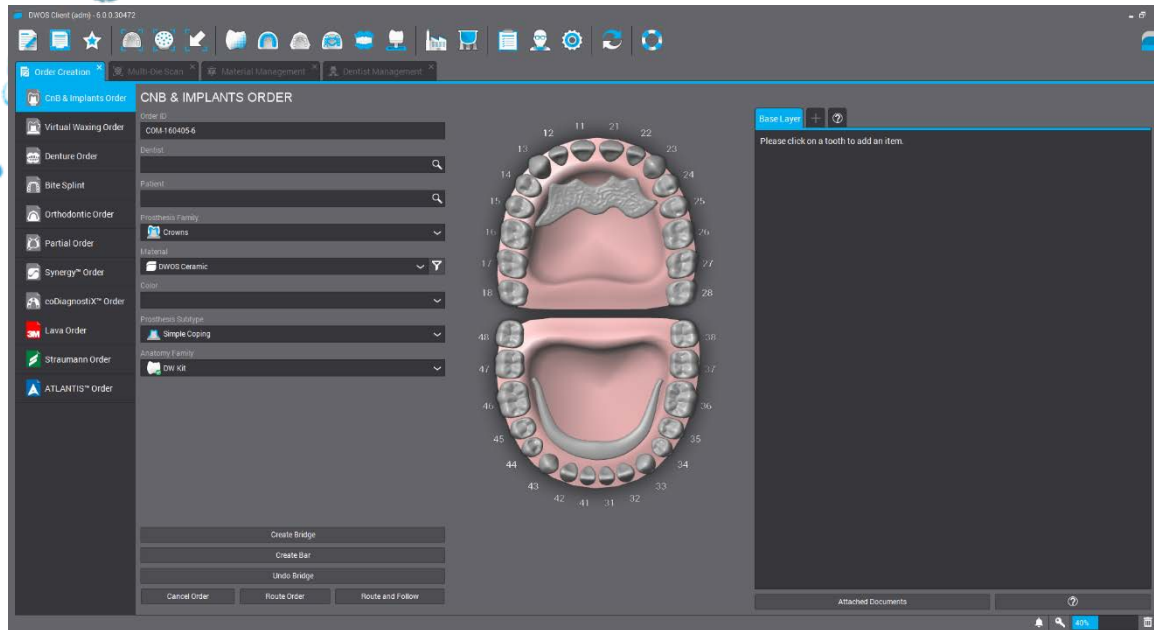
- Order receiving application
- Order choice

The screenshot shows the DWOS Client (adm) - 6.0.0.30472 interface. The top toolbar contains various icons, with the 'Order Creation' icon highlighted by a red box. Below the toolbar, the 'Order Creation' menu is open, showing a list of order types: CnB & Implants Order, Virtual Waxing Order, Denture Order, Bite Splint, Orthodontic Order, Partial Order, Synergy™ Order, coDiagnostiX™ Order, Lava Order, Straumann Order, and ATLANTIS™ Order. A red box highlights this list, and a red line connects it to the 'Order choice' bullet point in the text to the left. The main window displays the 'CNB & IMPLANTS ORDER' form with fields for Order ID (COM-160405-6), Dentist, Patient, Prosthesis Family (Crowns), Material (DWOS Ceramic), Color, Prosthesis Subtype (Simple Coping), and Anatomy Family (DW Kit). Below the form are buttons for 'Create Bridge', 'Create Bar', 'Undo Bridge', 'Cancel Order', 'Route Order', and 'Route and Follow'. On the right, a 3D dental model is shown with tooth numbers 12-28 and 48-32. A 'Base Layer' panel is visible with the text 'Please click on a tooth to add an item.' The bottom right corner shows 'Attached Documents' and a 40% zoom level.



ORDER MANAGEMENT - ORDER CREATION

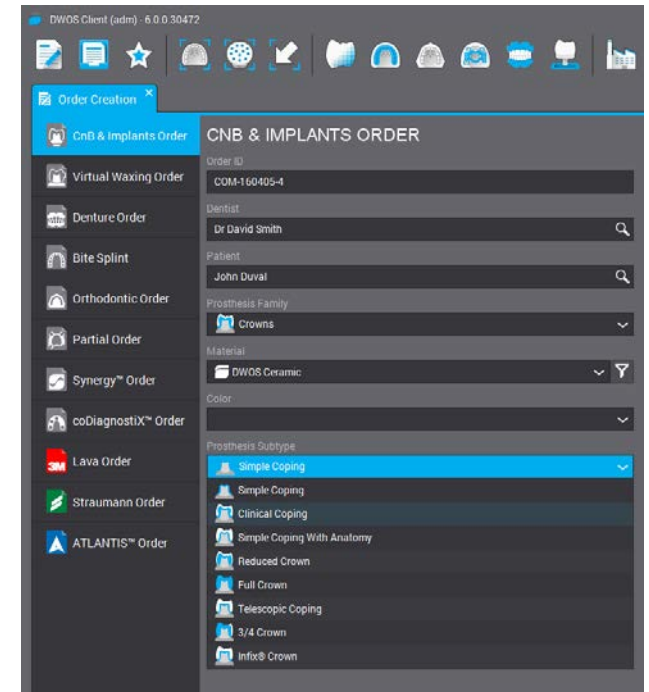
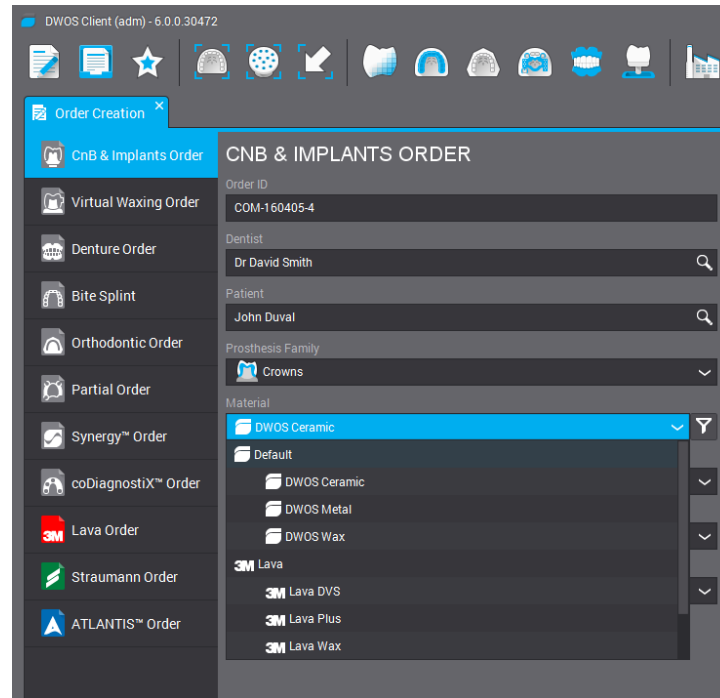
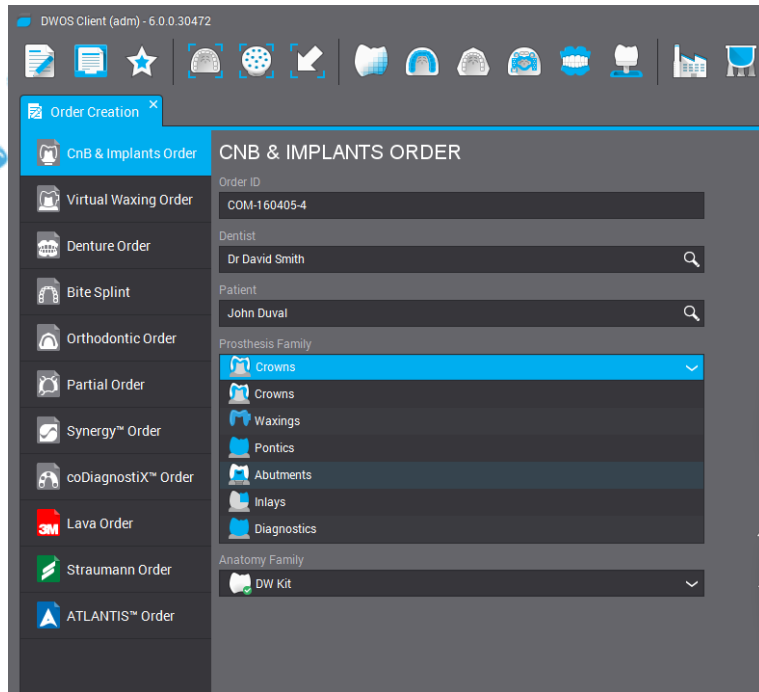
- Select dentist and patient





ORDER MANAGEMENT - ORDER CREATION

- Prosthesis type & material





ORDER MANAGEMENT - ORDER CREATION

- Anatomy & tooth assignment

DWOS Client (adm) - 6.0.0.30472

Order Creation

CnB & Implants Order **CNB & IMPLANTS ORDER**

Order ID: COM-160405-4

Dentist: Dr David Smith

Patient: John Duval

Prosthesis Family: Crowns

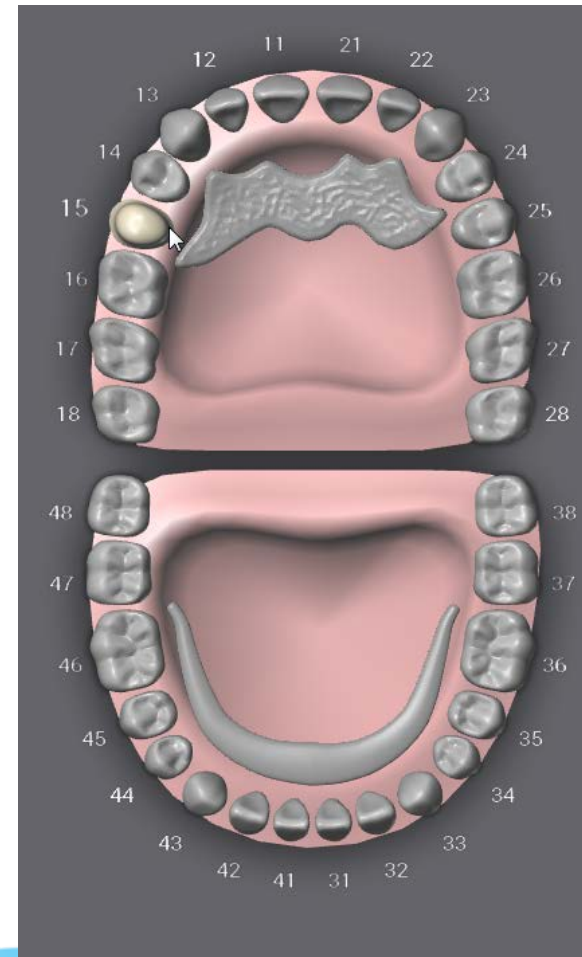
Material: DWOS Ceramic

Color: [dropdown]

Prosthesis Subtype: Simple Coping

Anatomy Family: **DW Kit**

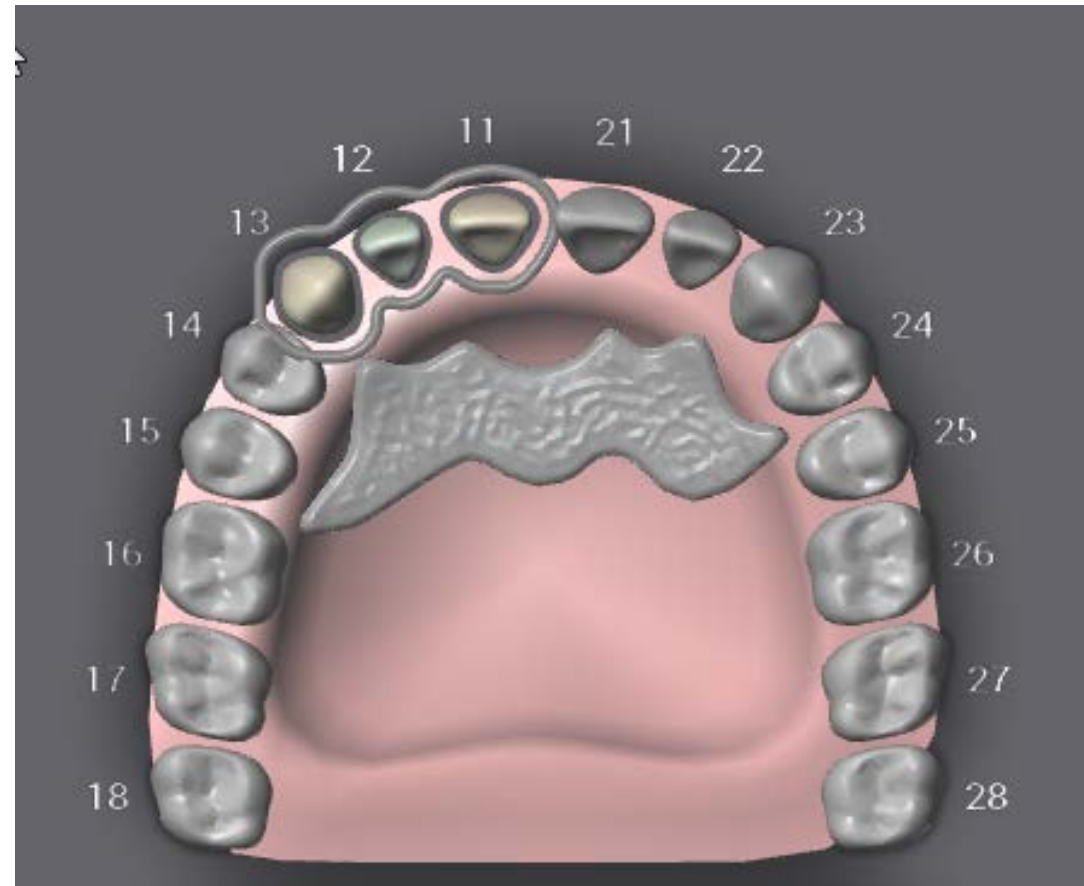
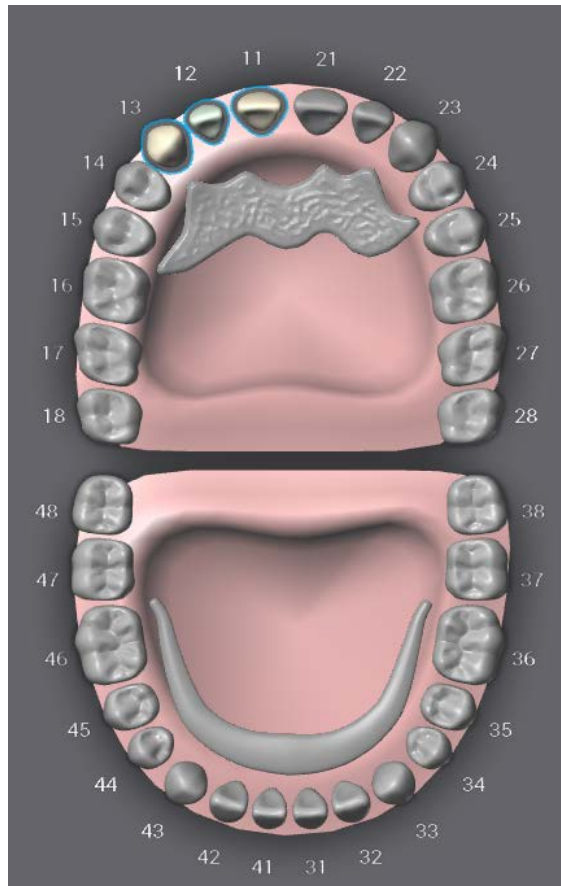
- Anatomy
 - Default Manufacturer
 - DW Advanced Kit
 - DW Hi Res Kit
 - DW Kit**
 - DW Ultra Kit
 - Merz Dental
 - DeltaForm® Posterior





ORDER MANAGEMENT - ORDER CREATION

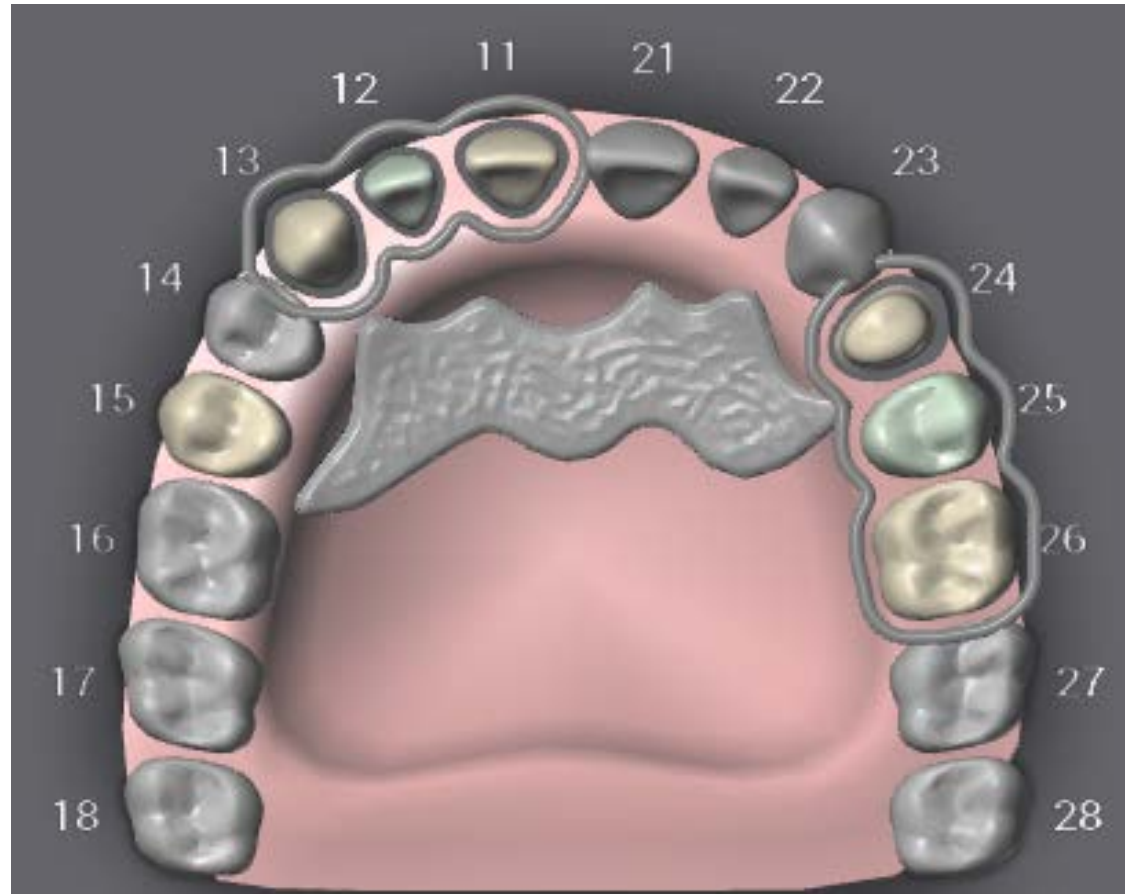
- Bridge definition





ORDER MANAGEMENT - ORDER CREATION

- Multi items order definition





ORDER MANAGEMENT - MONITORING

- Administrative application

The screenshot displays the DWOS Client (adm) - 6.0.0.30472 interface. The top navigation bar includes icons for various functions, with the 'Order Management' icon highlighted by a red box. The main window shows a table of orders with the following data:


Orders	Status	Customer	Patient	Product	Implant ...	Scan System	Prosthesis Type	Operation	Tooth	Due Date	Approval Status	Creation Date
COM-160405-4		Dr David Smith	John Duval			3Series+						4/5/16 3:44 AM
COM-160405-4-1				DWOS Ceramic			Reduced Crown	Cad completion	15			4/5/16 5:36 AM
COM-160405-2		Dr Dentist, My	Patient, My			3Series+						4/5/16 2:49 AM
COM-160405-2-1				DWOS Ceramic			Bridge	Scan	18, 16			4/5/16 3:05 AM

Below the table, there is a 'Preview' section showing a 3D dental model of a maxillary arch. To the right of the preview is a 'Comments' section with the text 'No comment'. Further right is a 'Files' section. The bottom right corner of the interface shows a search icon, a magnifying glass, and a zoom level of 2%.



ORDER MANAGEMENT - ROUTE

- Automatic forward routing
- Possible manual routing



Cancel Order

Route Order

Route and Follow



 dental wings

MULTIDIE 1

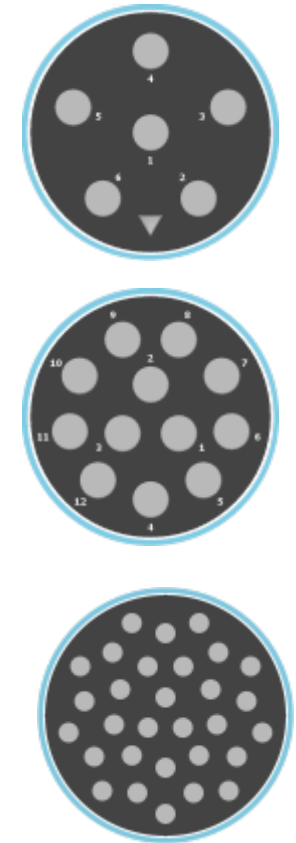
SINGLE COPINGS WITH MULTIDIE



MULTIDIE 1: INTRODUCTION



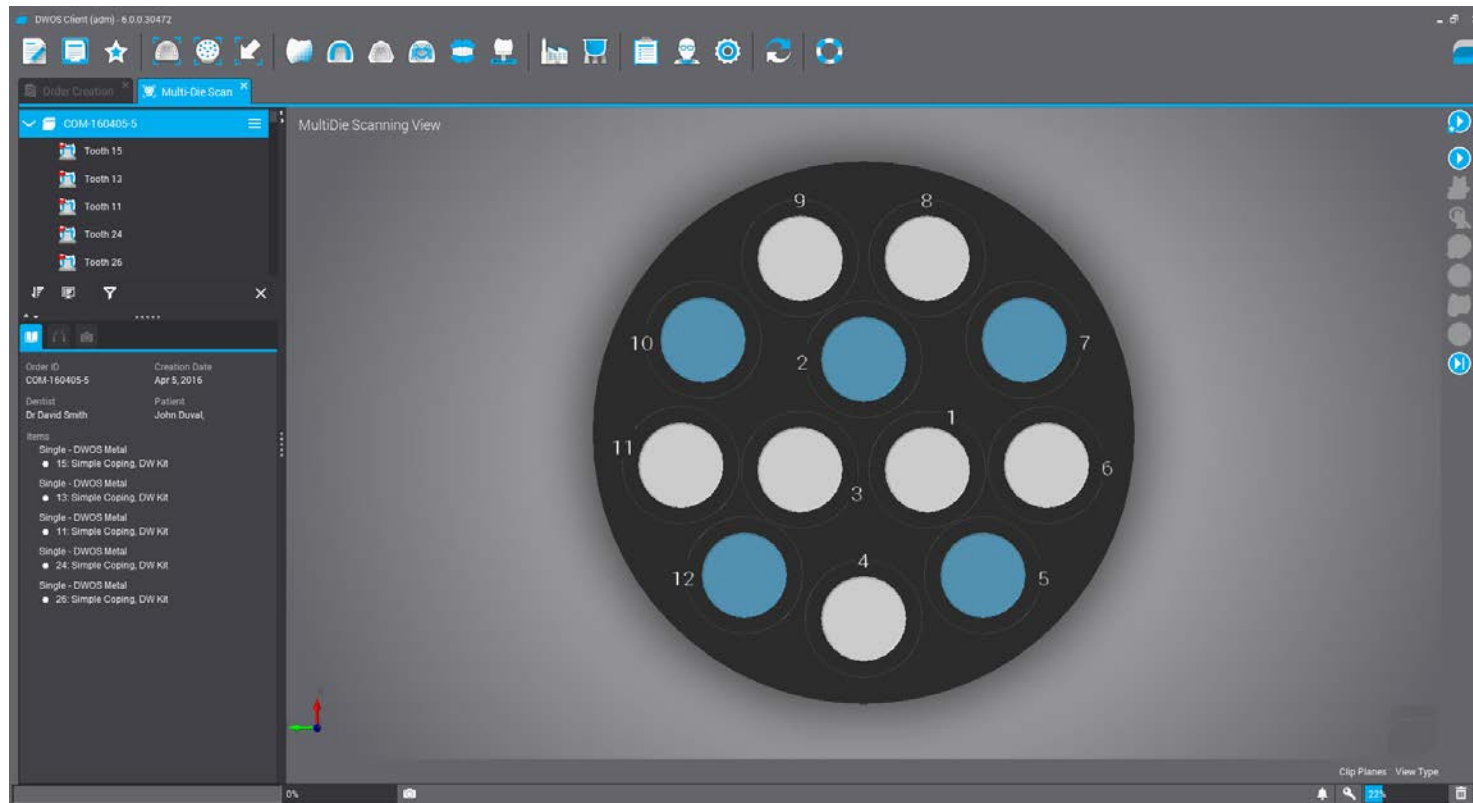
- Parallel & high productive
- Single units
- Specific die holder
- 3series 6 & 12 slots 7series
- Multidie application





MULTIDIE 1: START

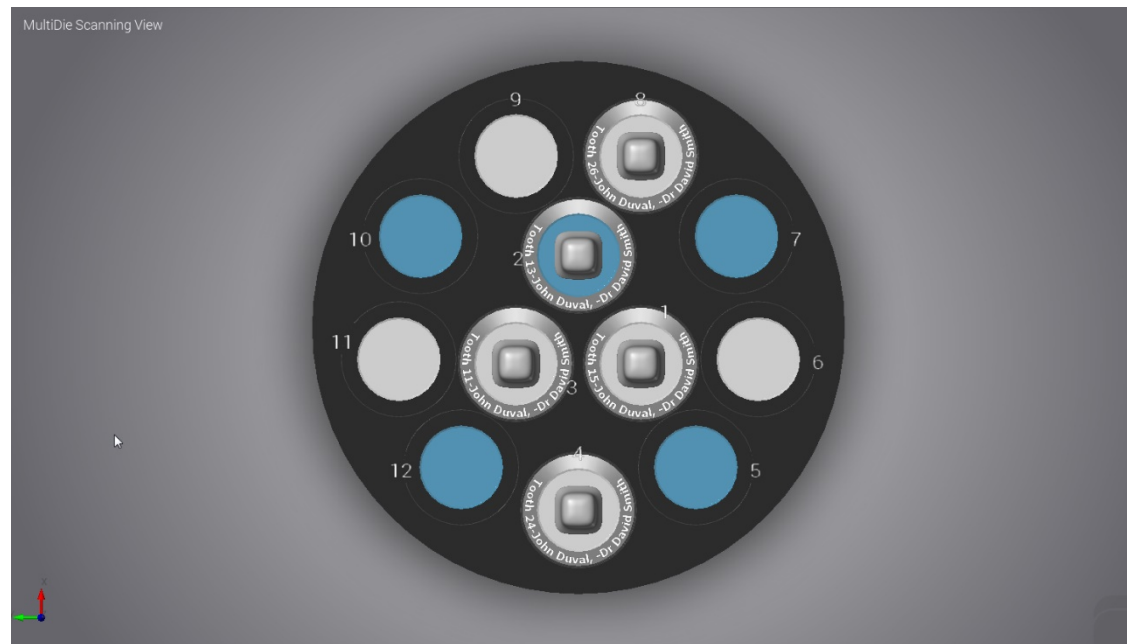
- Create an order with several single units
- Start multidie application





MULTIDIE 1: DIES INSTALLATION

- Drag and drop item number
- Install die in corresponding position

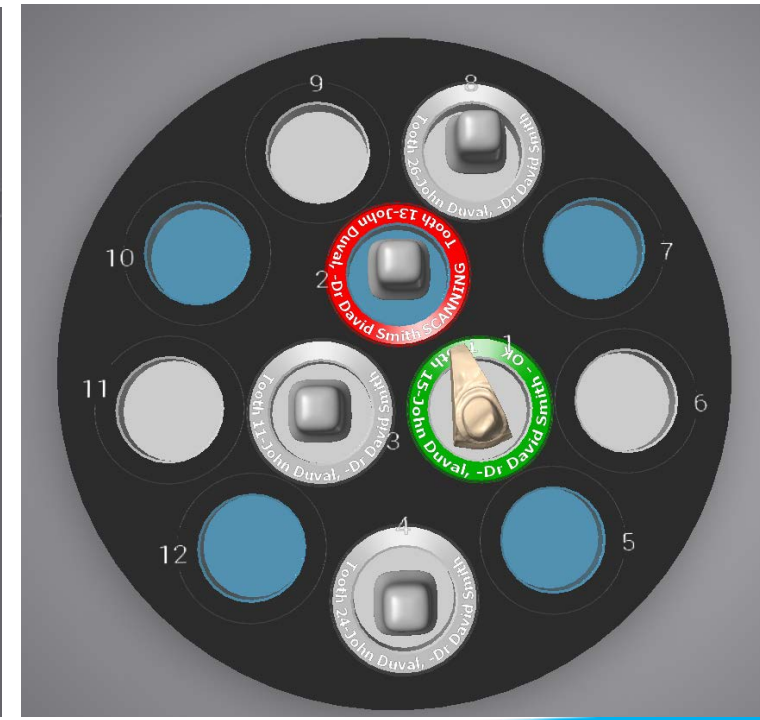
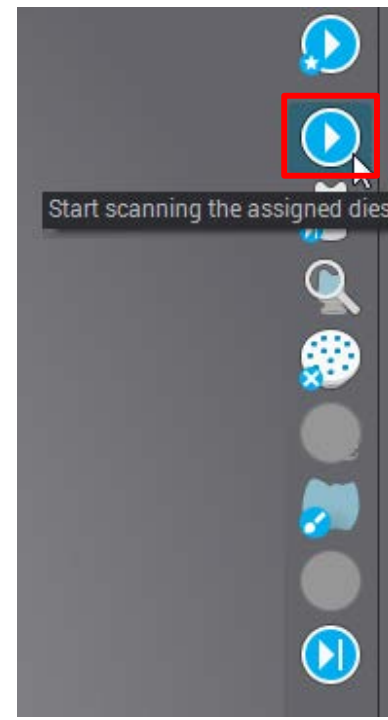
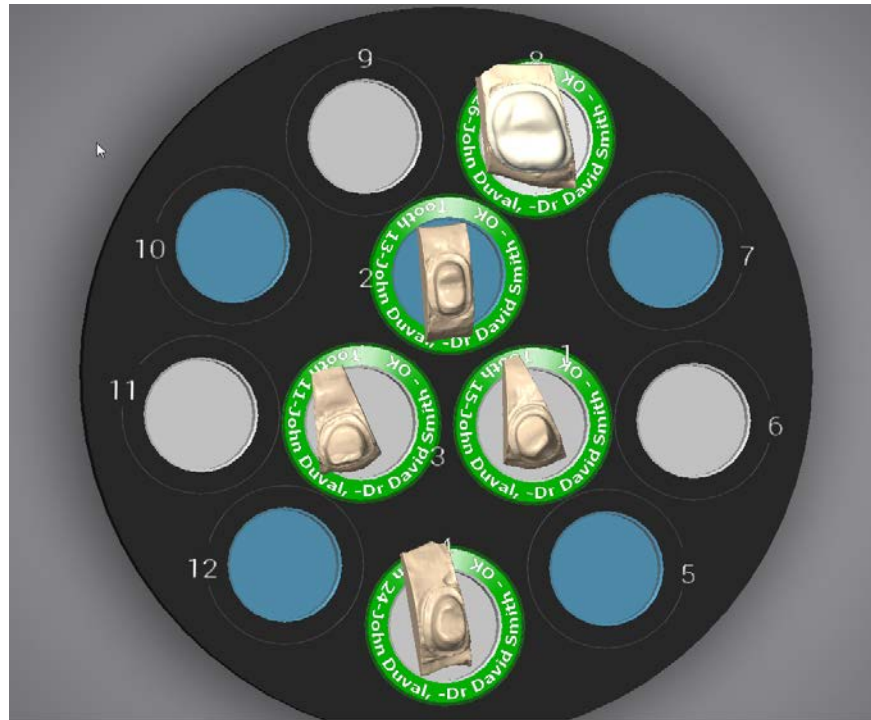


Buccal side of the dies should be oriented
Towards the front
(direction of arrow)



MULTIDIE 1: START SCANNING

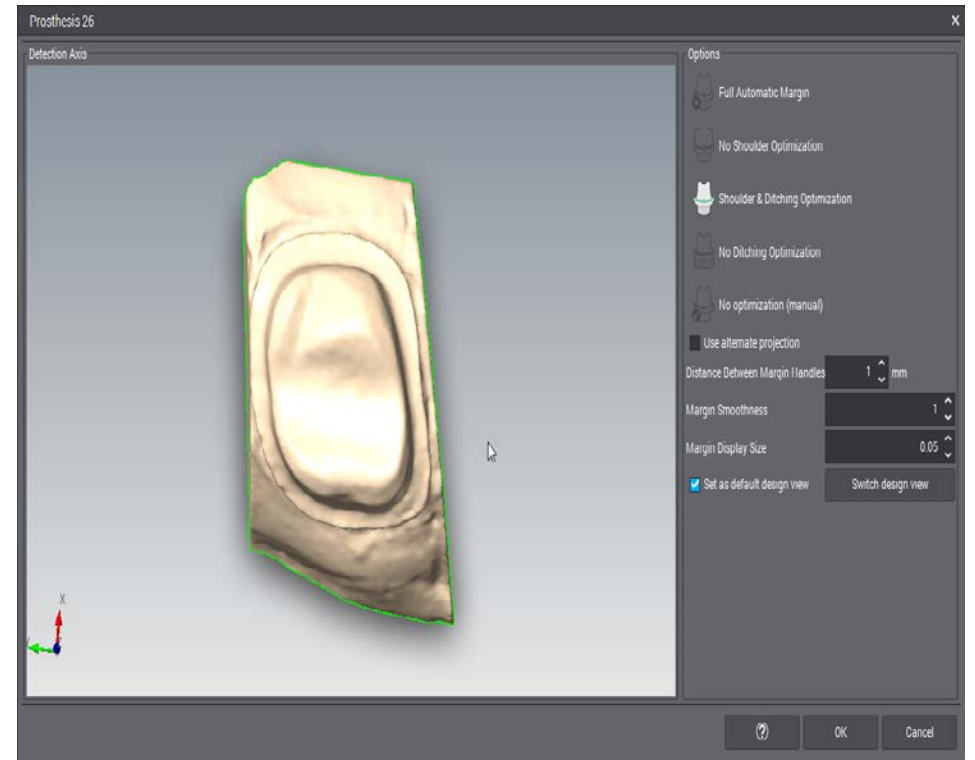
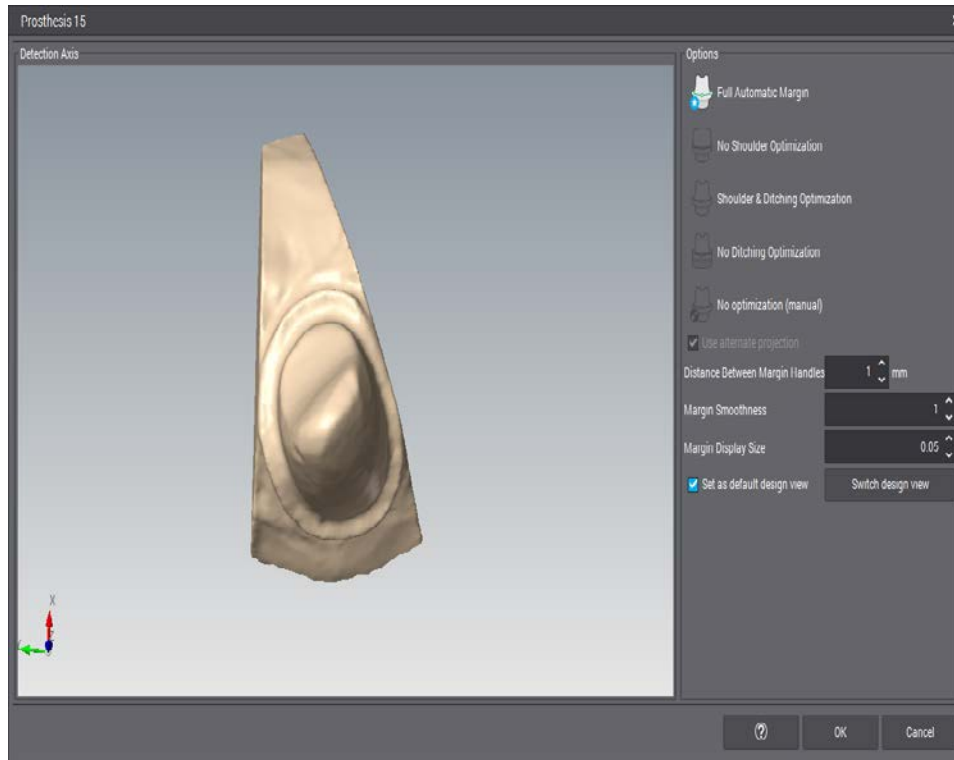
- 2 ways of scanning
 - Automated mode
 - Classical mode





MULTIDIE 1: MARGIN LINE EDITING

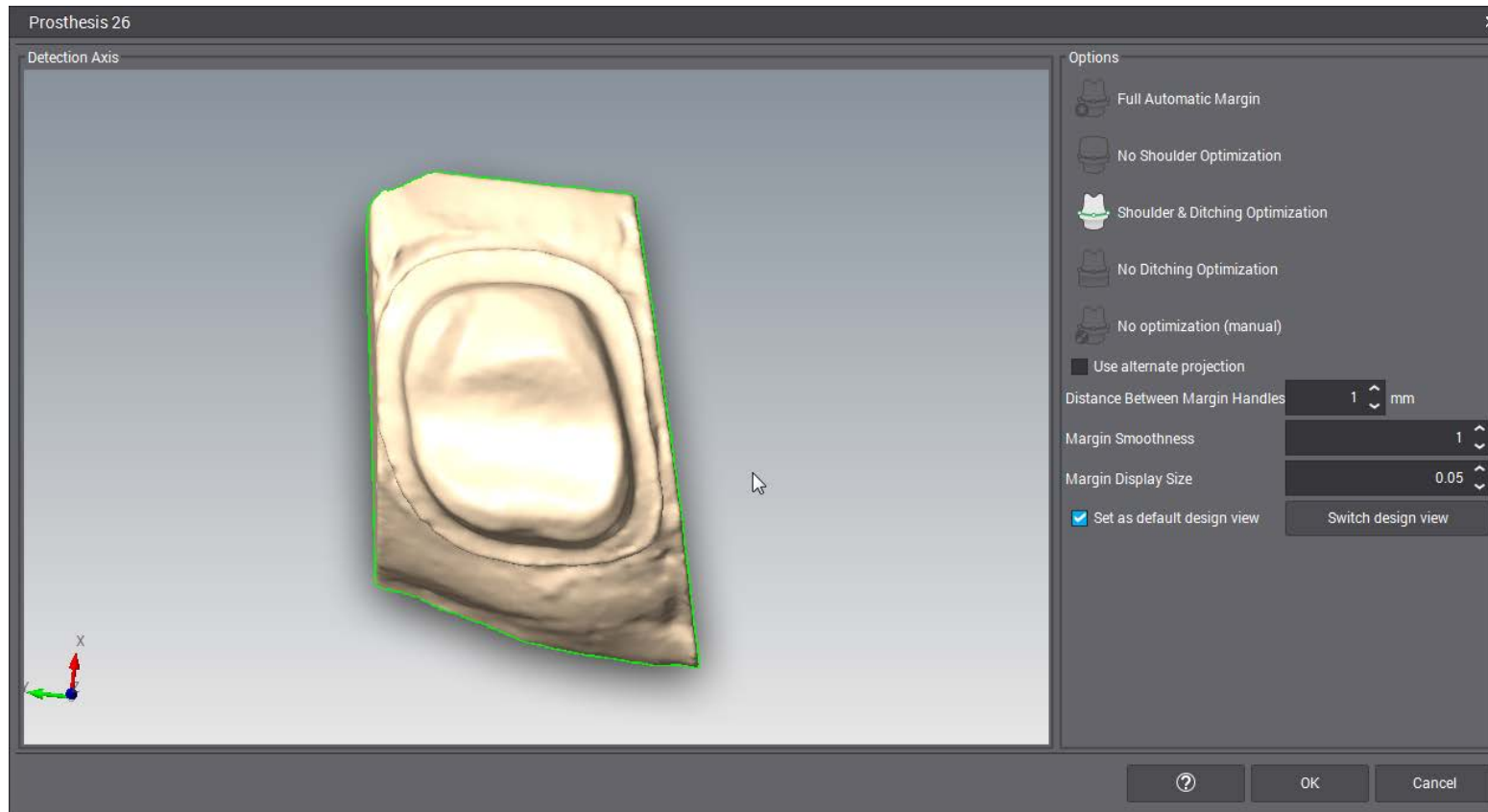
- Next margin icon
- Automatic proposal for margin
- Manual editing





MULTIDIE 1: MARGIN LINE EDITING

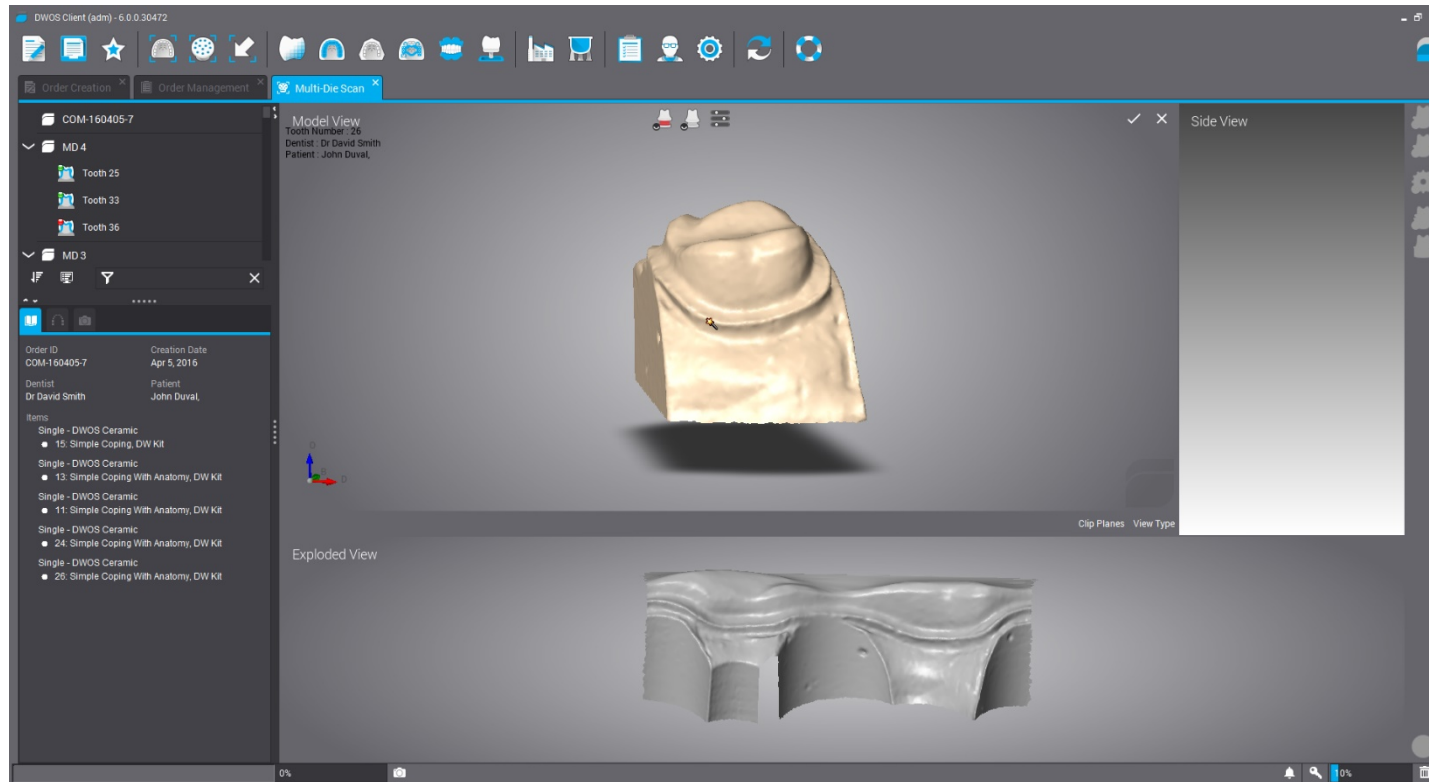
- Orient the die (occlusal view)
- Select ditching case





MULTIDIE 1: MARGIN LINE EDITING

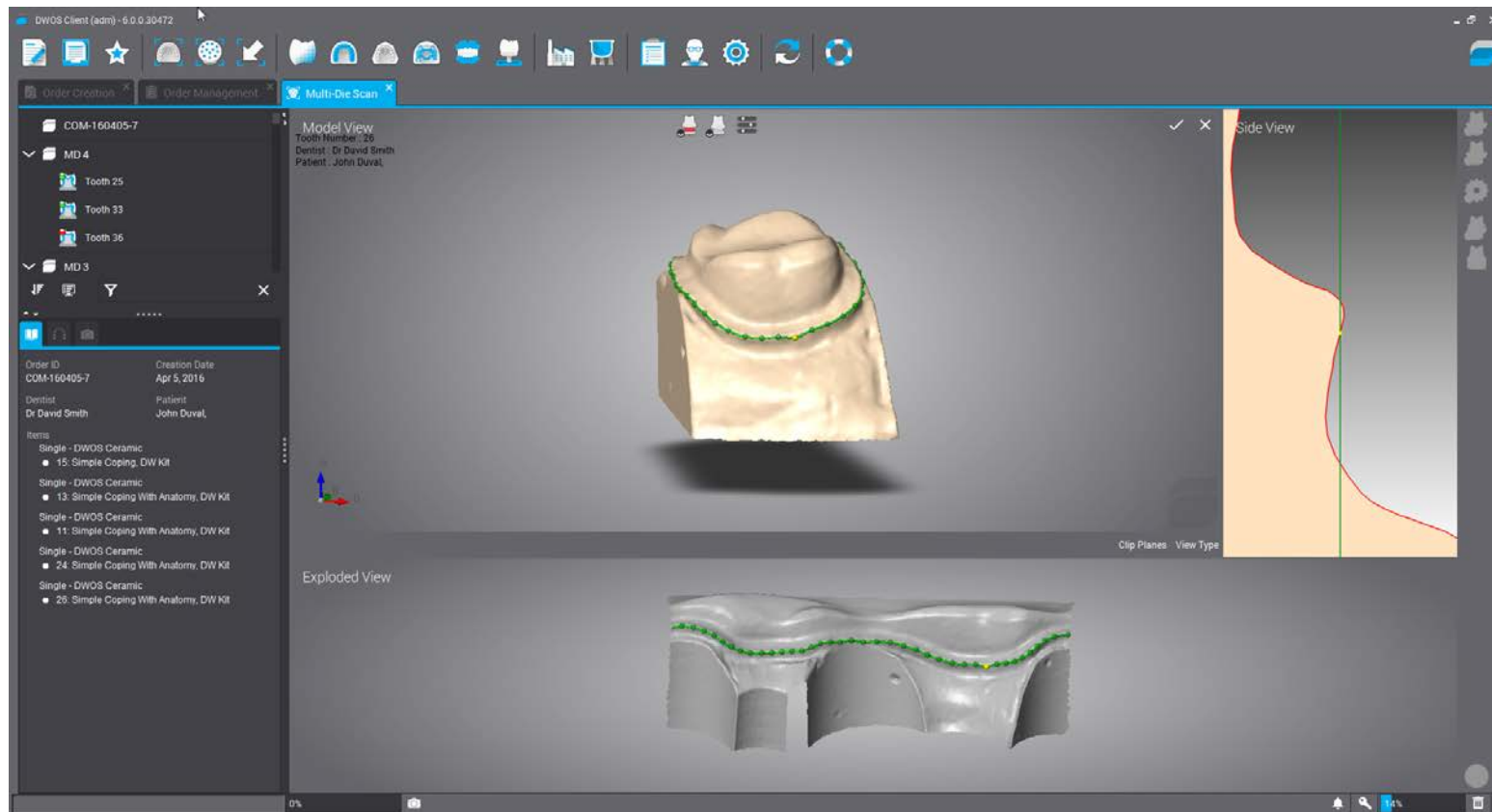
- Different useful views
- Define a starting point for an automatic detection





MULTIDIE 1: MARGIN LINE EDITING

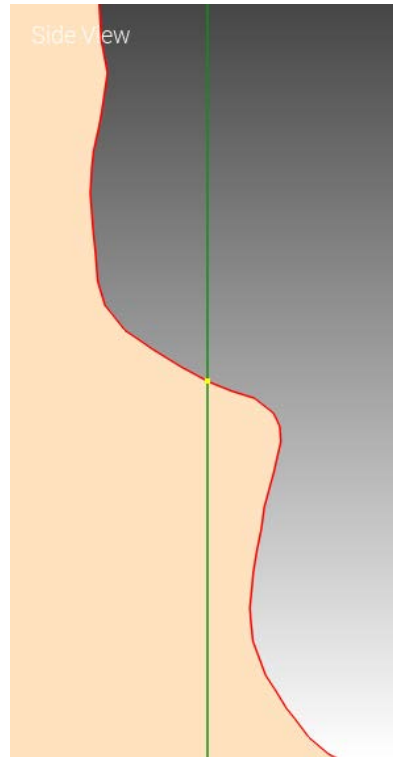
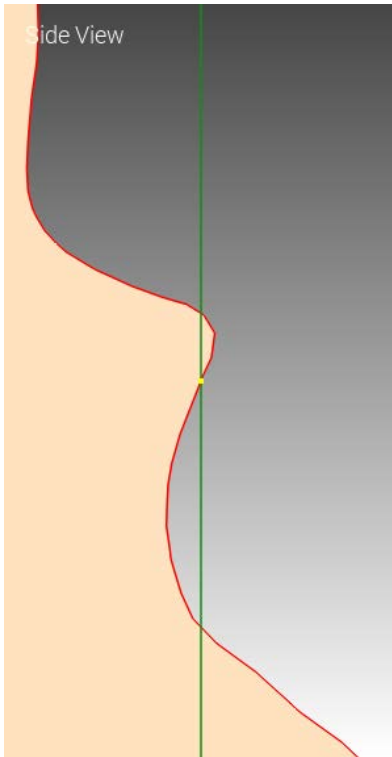
- Move points
- Add/remove points





MULTIDIE 1: MARGIN LINE EDITING

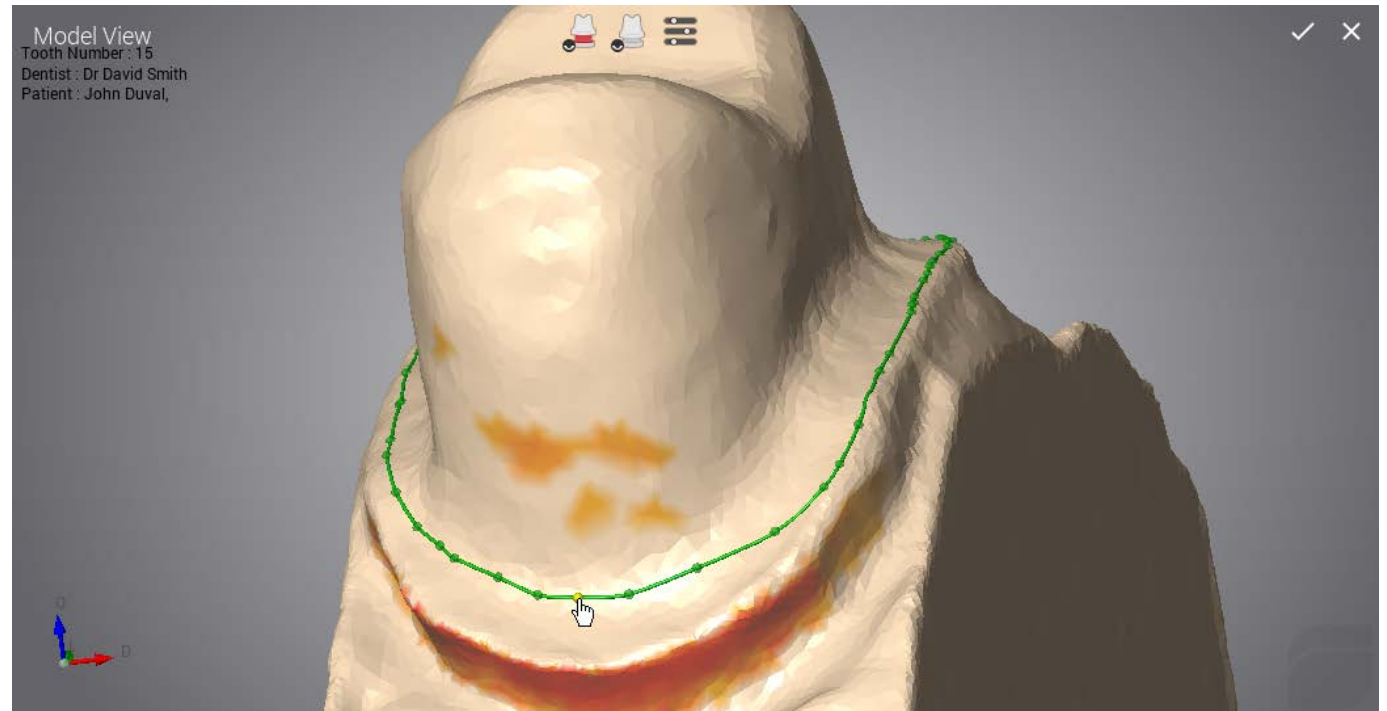
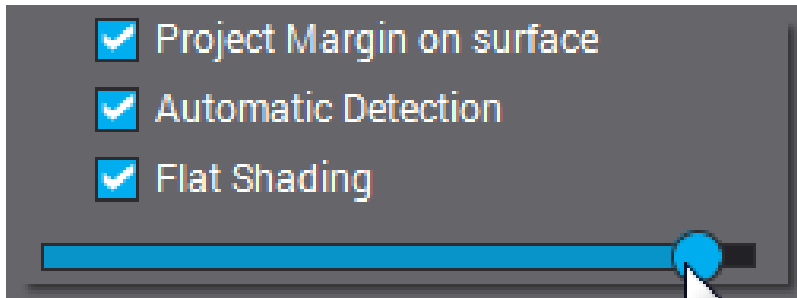
- Also keys left, right, up, down
- SHIFT bigger step + up, down keys
- CTRL smaller step + up, down keys
- DEL key





MULTIDIE 1: PROJECT MARGIN ON SURFACE

- Tools :
 - Flat shading, facilitate the perception of the margin
 - Swiping dot to select more or less margin portion to move





MULTIDIE 1: Cut Back



Prosthesis 26

Insertion Axis **Coping Parameters** Prosthesis Type

Coping Parameters

Parameters

- Cement Gap
- Extra Vertical Gap
- Extra Horizontal Gap
- Collar Position
- Minimum Thickness
- Margin Thickness
- Emergence Angle
- Emergence Offset
- Margin Cutback Type
- Margin Cutback Value
- Block out undercuts
- Apply tool compensation

65

0.1

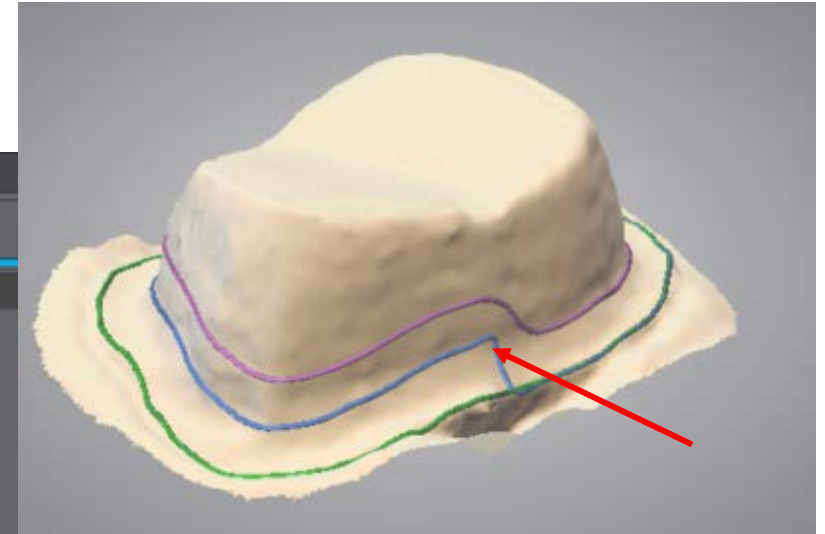
Buccal

1

Set as default

OK

Cancel



DWOS Client (adm) - 6.0.0.30518

CAD Station

Production Management

Model View
Tooth Number: 26
Dentist: Dr David Smith
Patient: John Duval

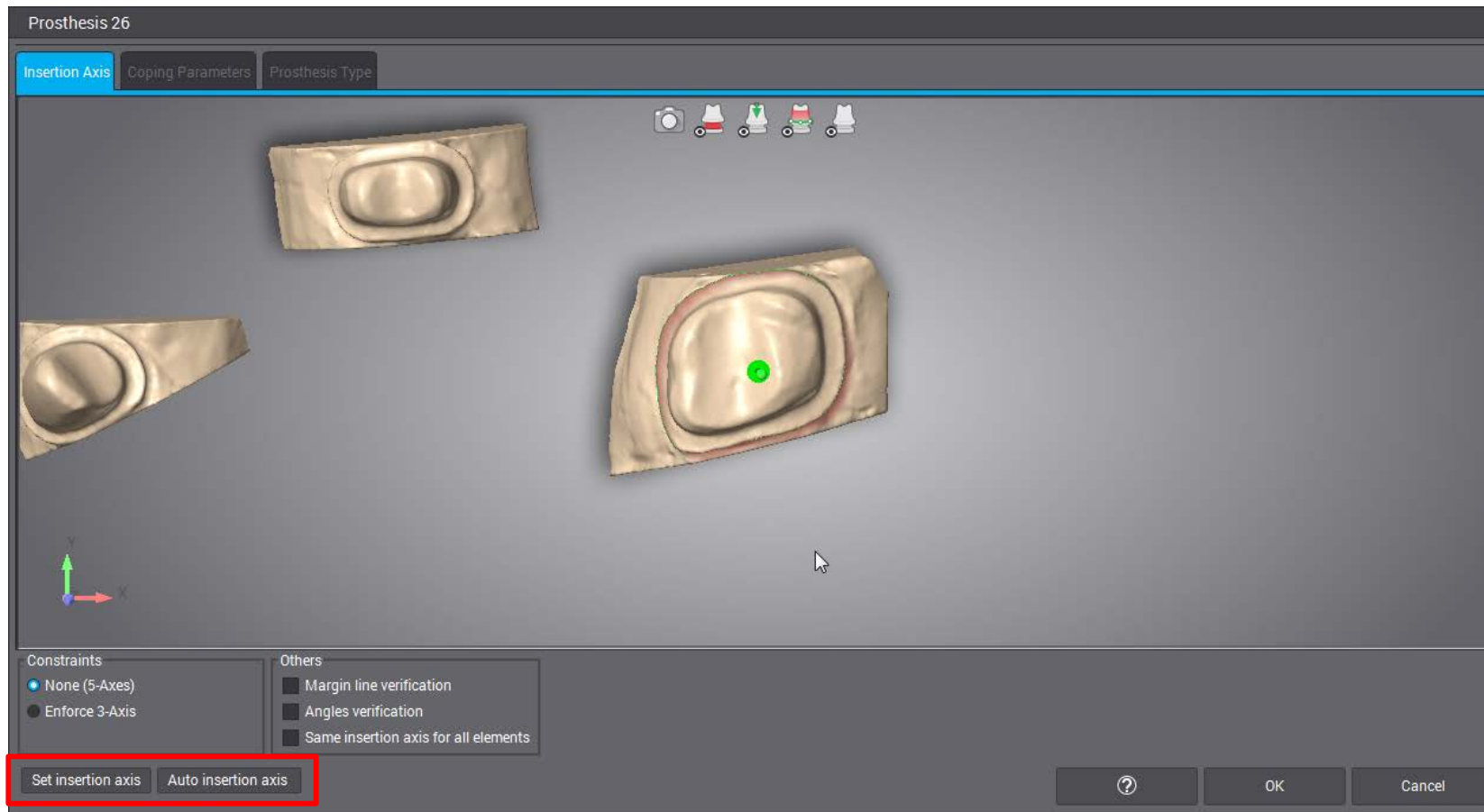
Side View

Exploded View



MULTIDIE 1: MARGIN LINE EDITING

- Define insertion axis
- Undercuts and helper



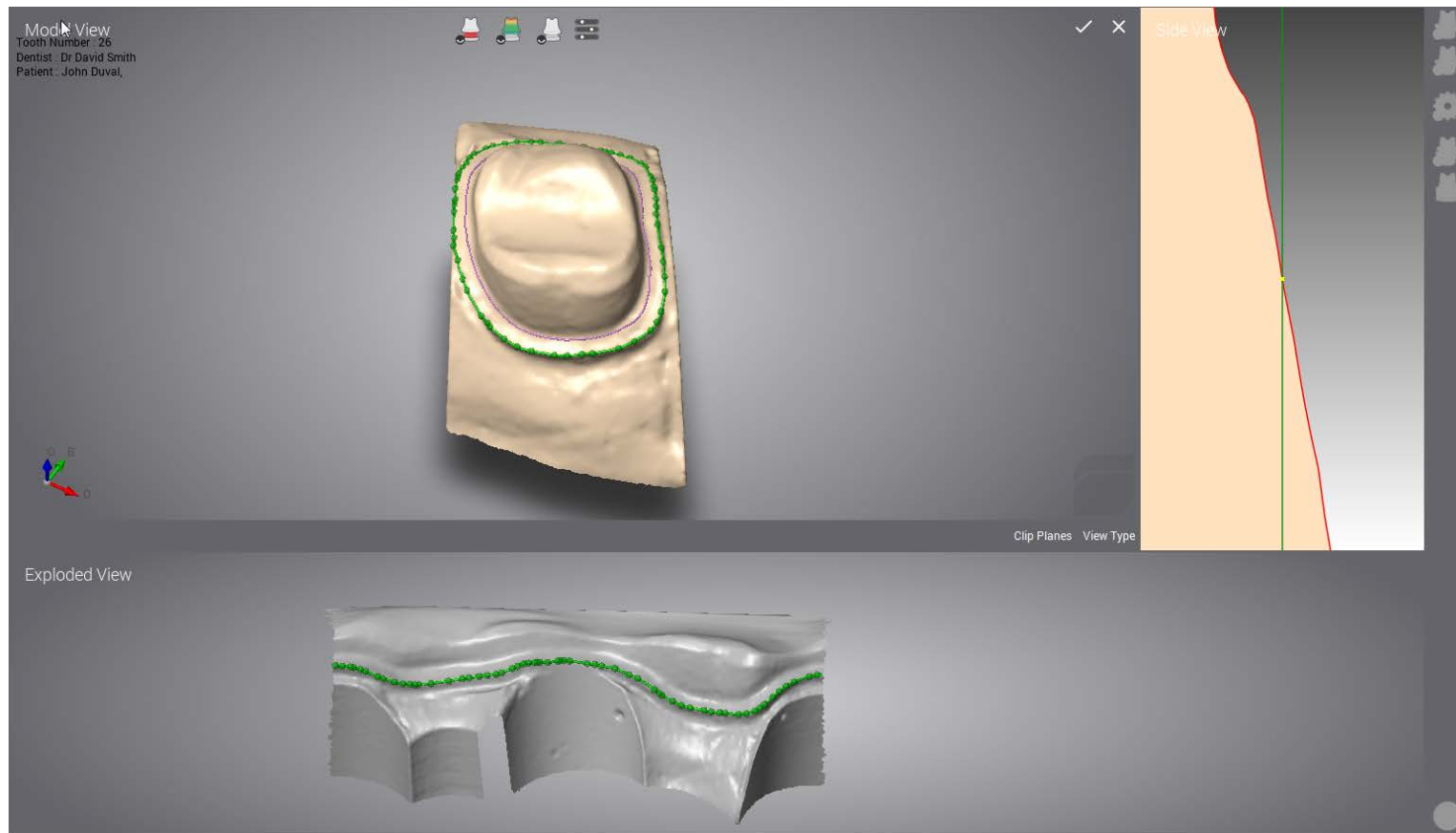


MULTIDIE 1: MARGIN LINE EDITING

- Automatic proposal for collar line
- Manual editing



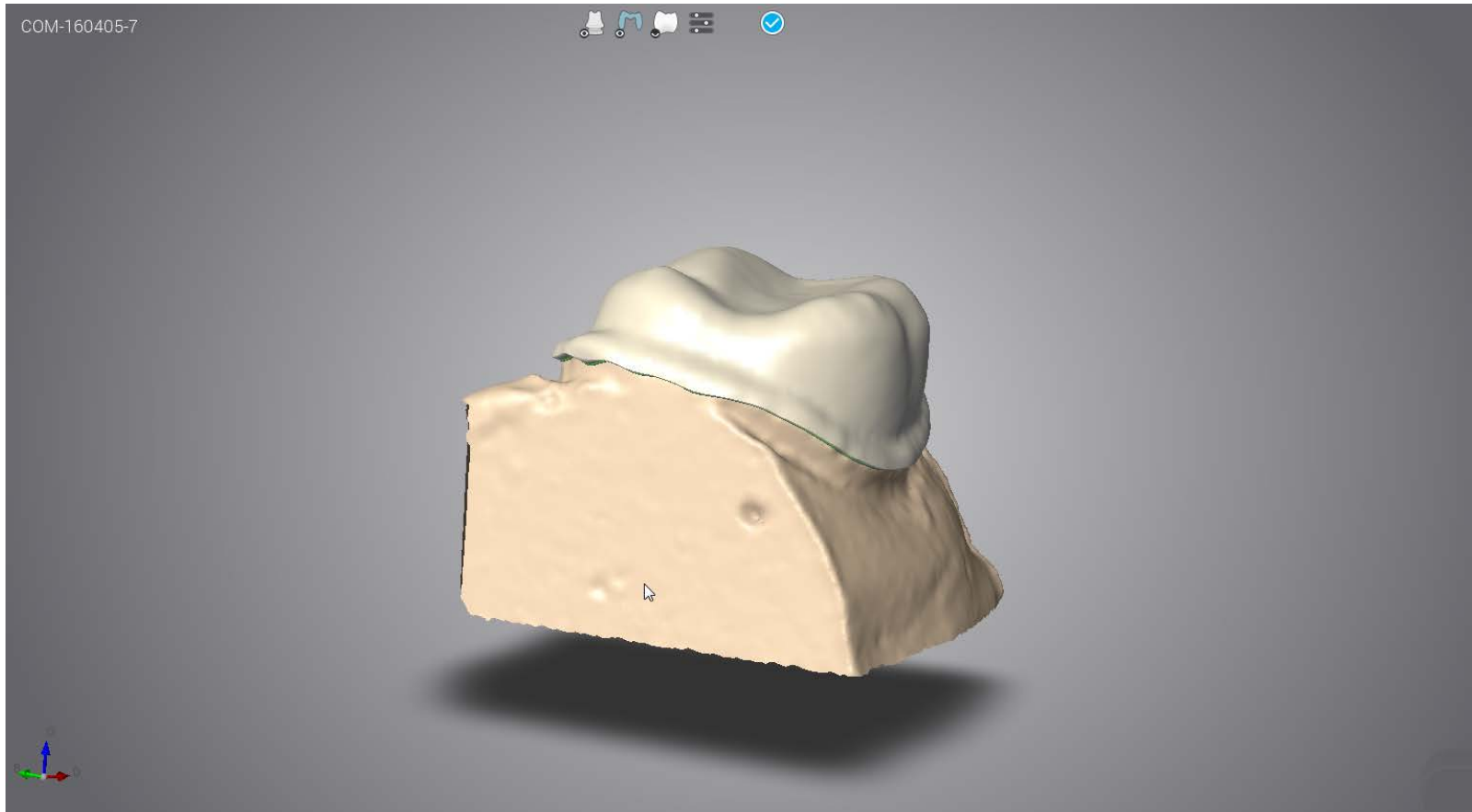
Full Automatic Margin





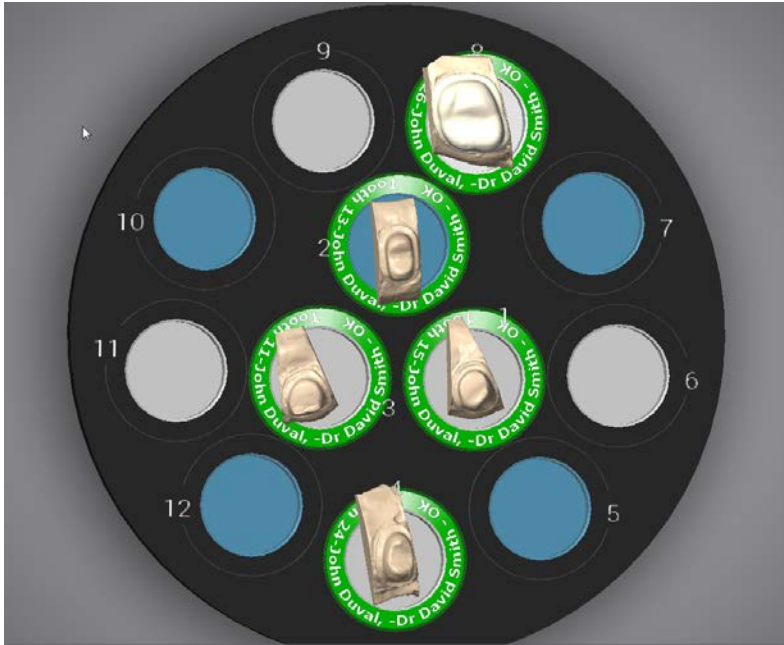
MULTIDIE 1: MARGIN LINE EDITING

- Computation of the simple coping
- Display





MULTIDIE 1: REPEAT FOR EACH DIE



- Repeat for each die
- All die in green when finished



MULTIDIE 1: EXIT



- Route icon



- Summary of orders



PAUSE

Back in **10** minutes

ARCH SCAN 1

SINGLE WITH ADJACENT AND
OPPOSING CHECKBITE





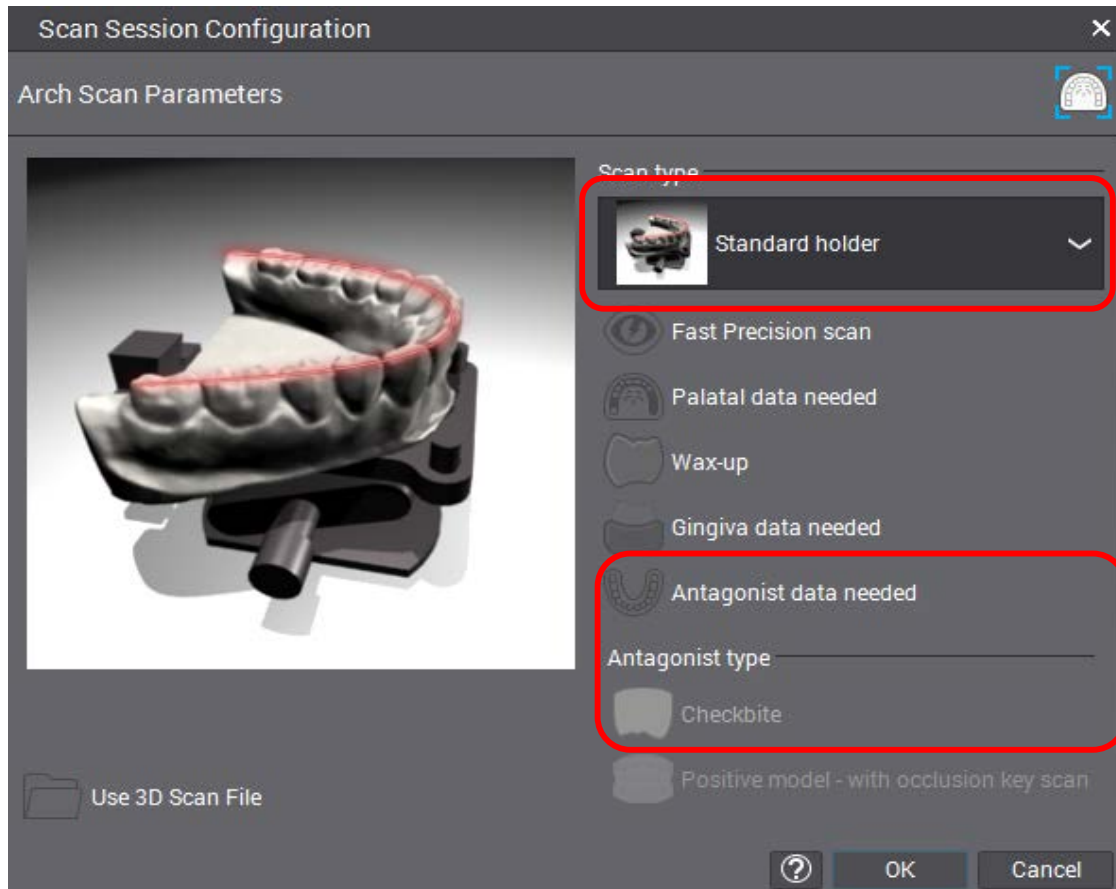
ARCH SCAN 1 : INTRODUCTION

- Single units and bridges
- Adjustable standard holder
- Arch scan application





ARCH SCAN 1 : START



- Create an order
select clinical coping
- Start arch scan application
& drag order
- Define scan parameters



ARCH SCAN 1 : ORIENTATION



- Video preview
- Orientate the model
- Drag line by moving external green dots

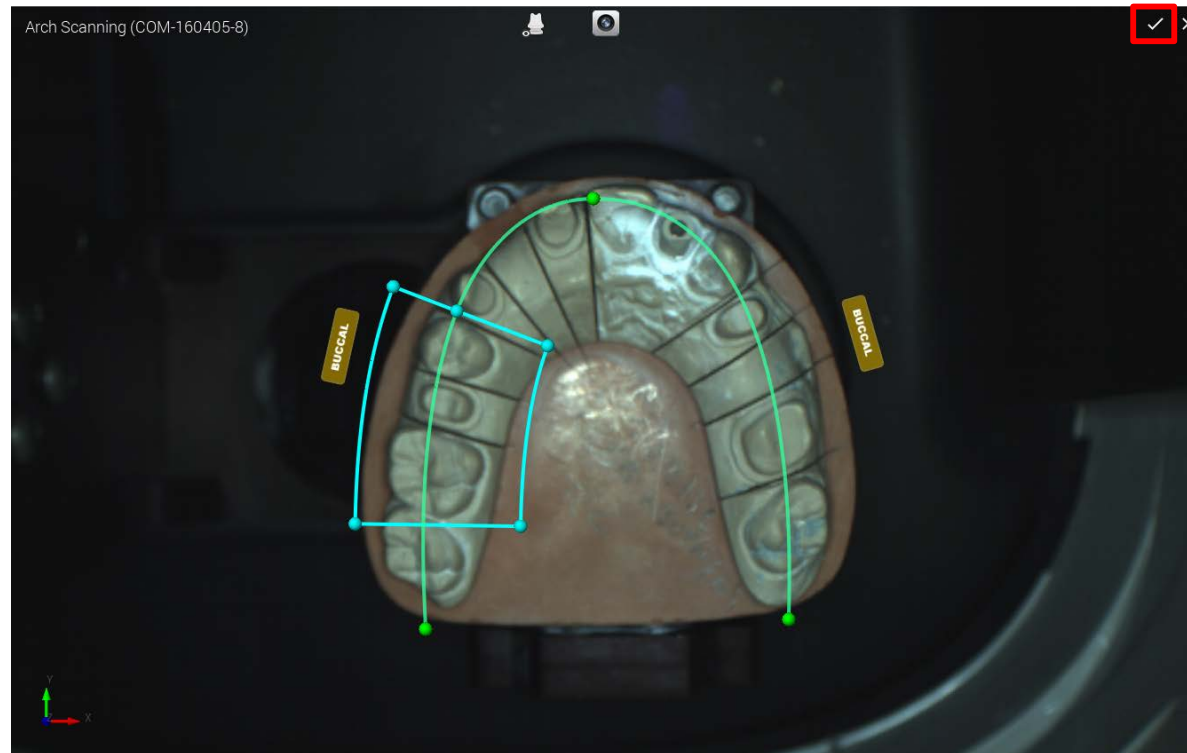


- Place central green dot between two centrals
- Adjust line by left click and mouse wheel
- Rotate scan selection using buccal labels or up, down, right, left arrows keys



ARCH SCAN 1 : Area of interest

- Eliminate useless area
- Define area by moving blue dots

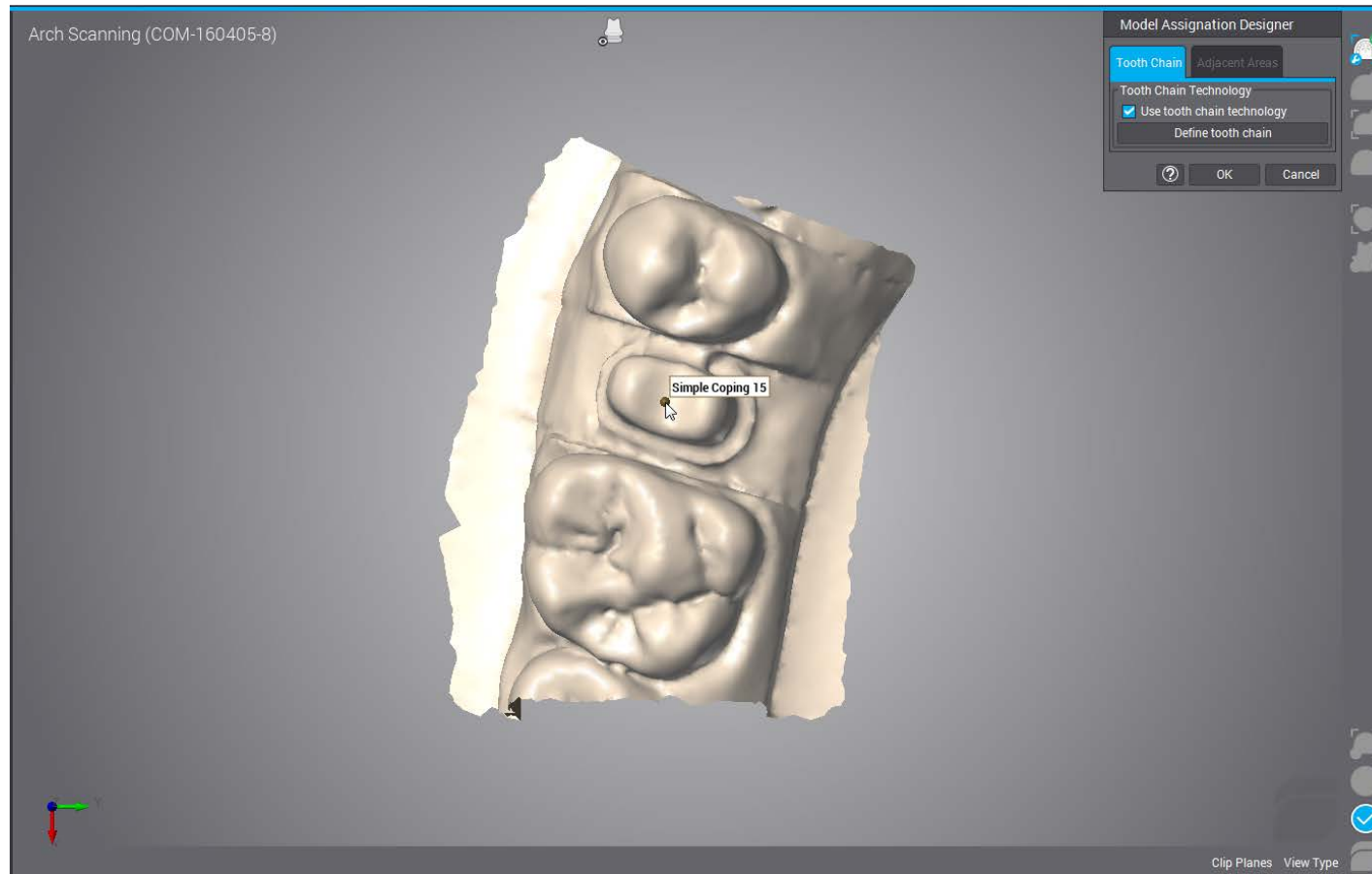
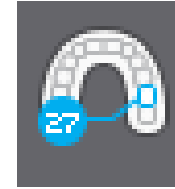


- Start scanning by clicking



ARCH SCAN 1 : TOOTH NUMBER ASSIGNATION

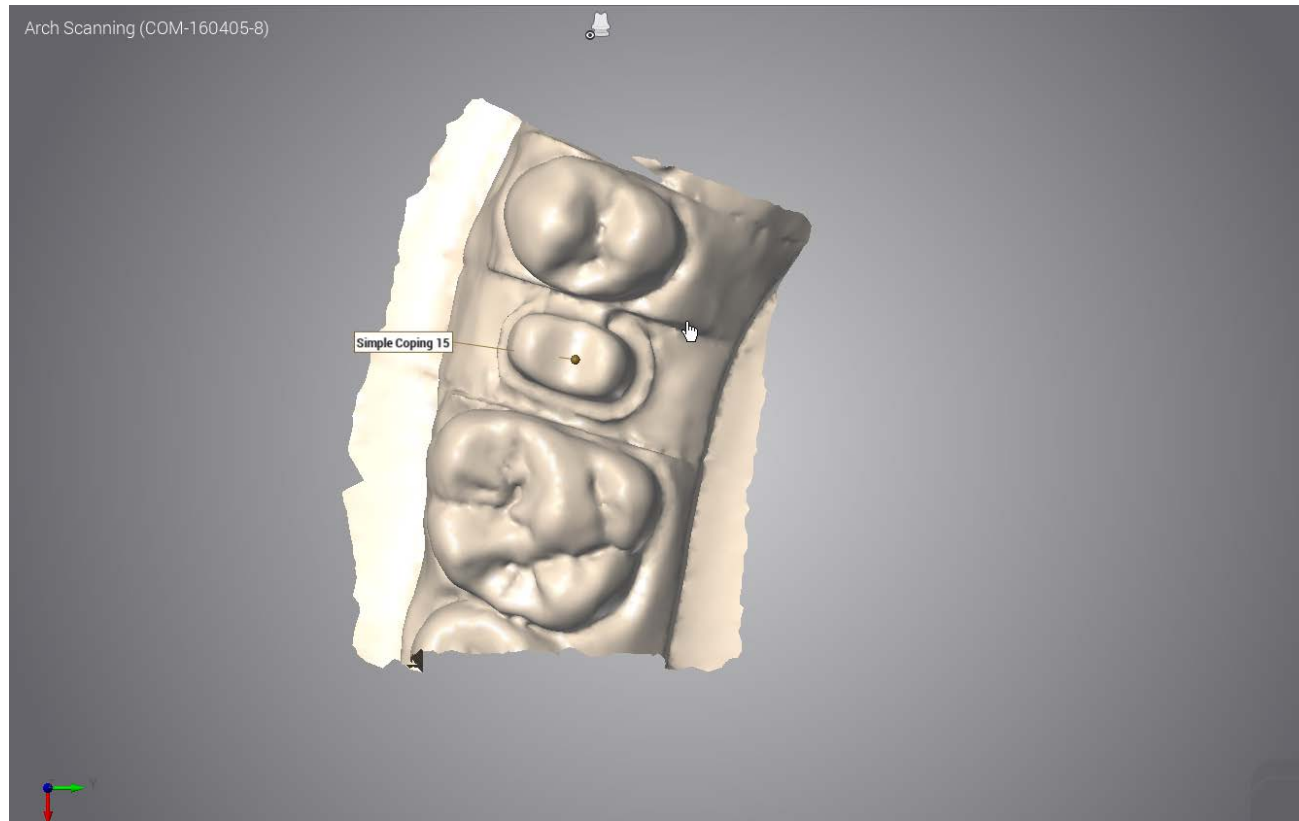
- Indicate die position





ARCH SCAN 1 : FIRST PRECISE SCAN

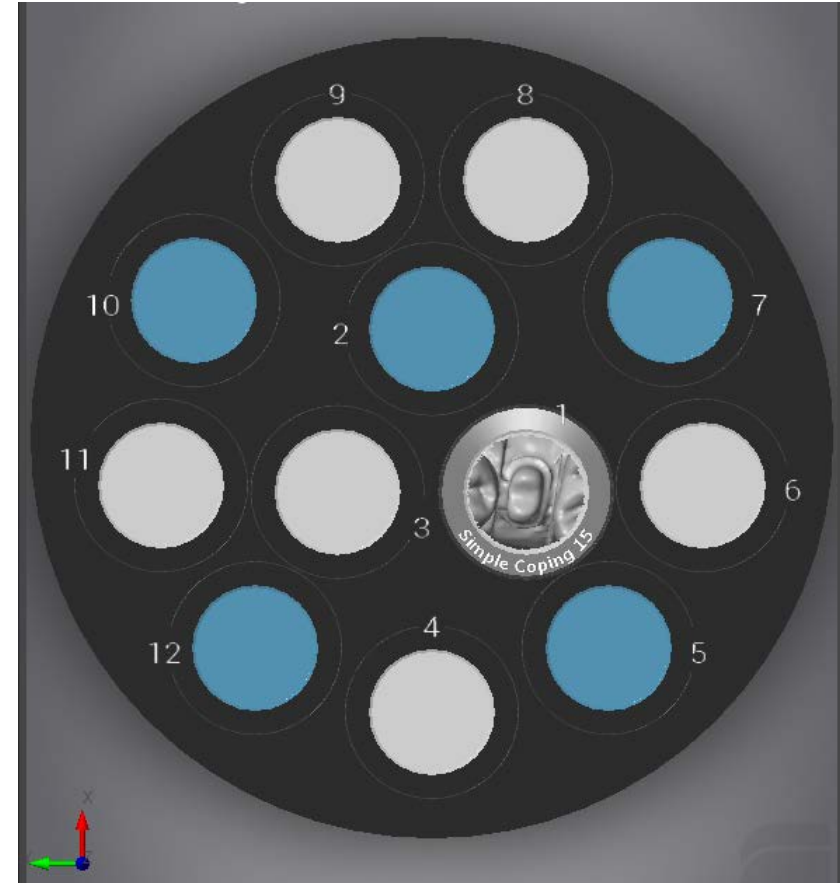
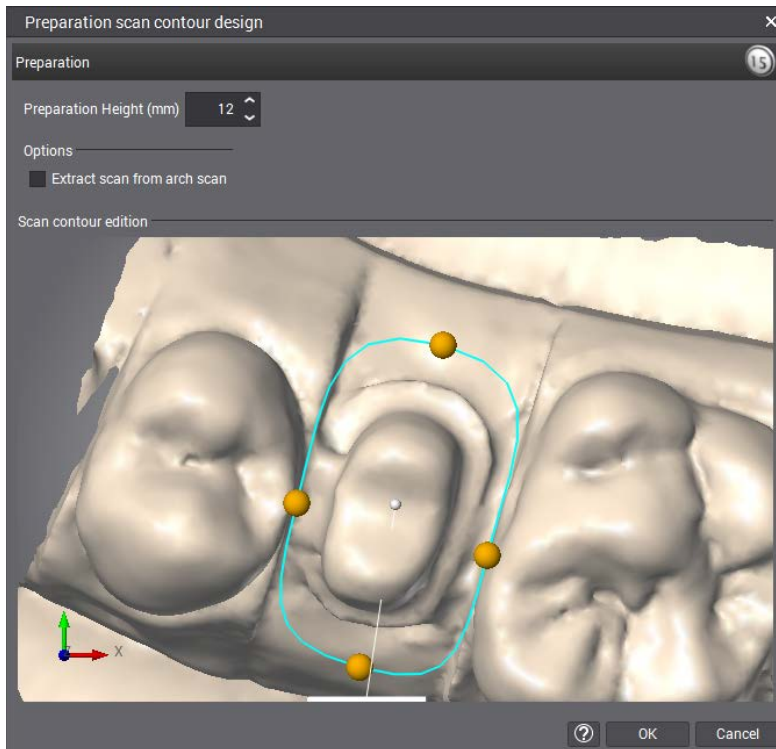
- Precise scan area of interest
- Missing cervical area parts on die





ARCH SCAN 1 : DIE SCAN

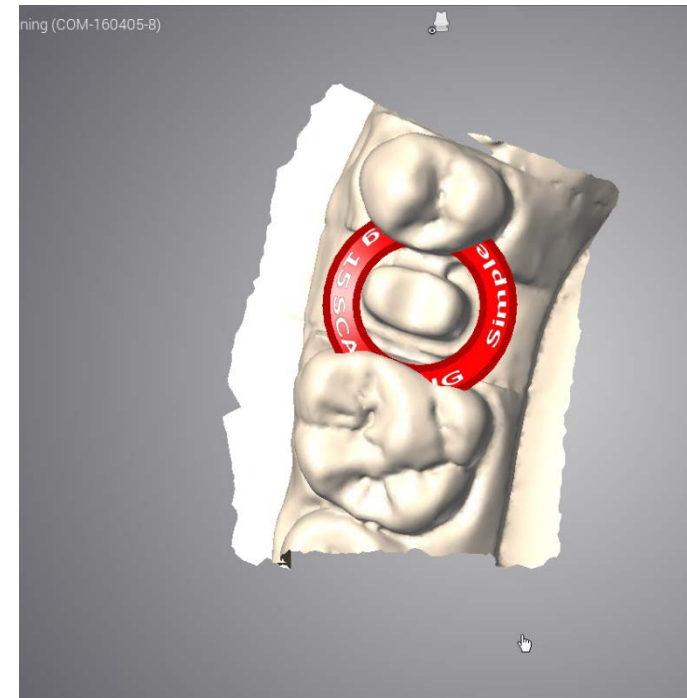
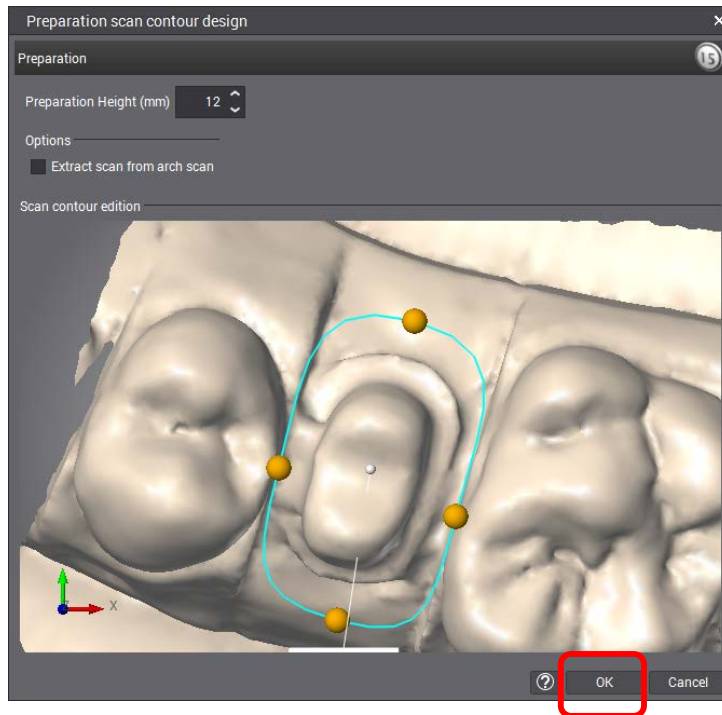
- Die only
- Two ways
 - Scan preparation on model
 - Die on multidie plate





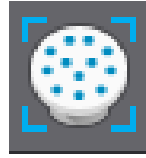
ARCH SCAN 1 : PRECISE DIE SCAN

- Adjust blue line (precise scanning zone)
By left click on yellow dots
- Leave or remove adjacent depend of case
- Start precise scan





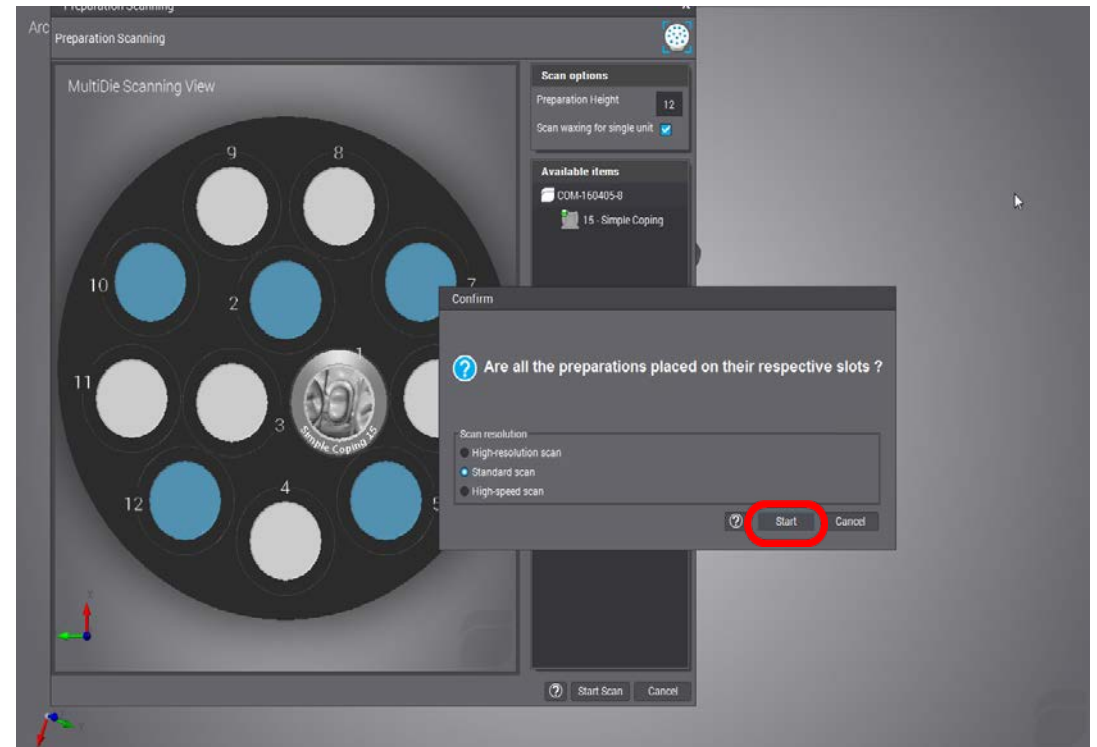
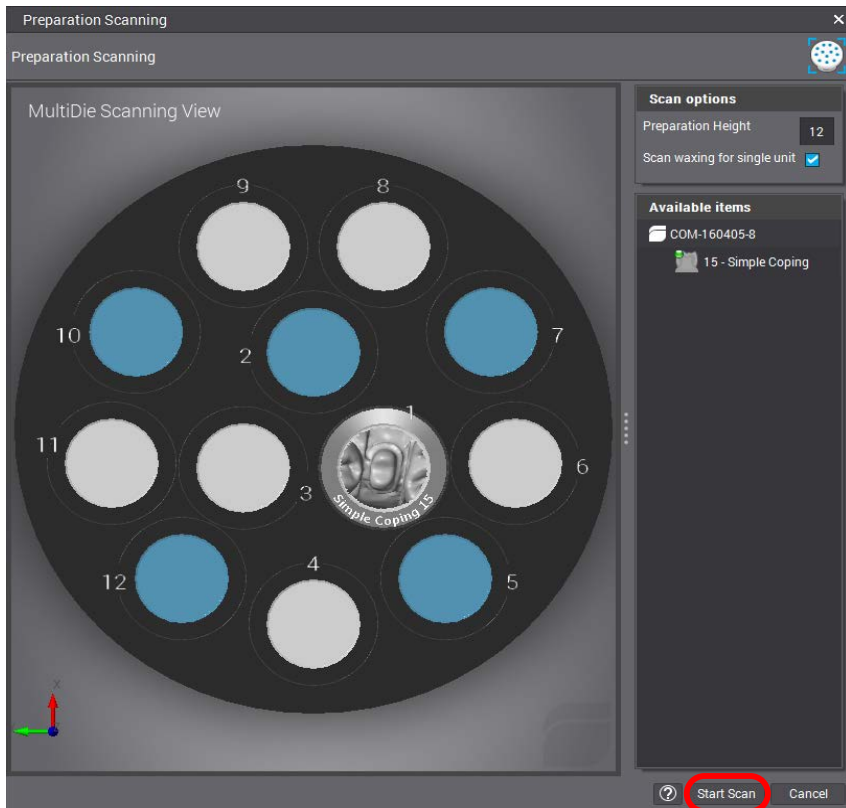
ARCH SCAN 1 : DIE ON MULTIDIE PLATE



- Install die on multidiel plate



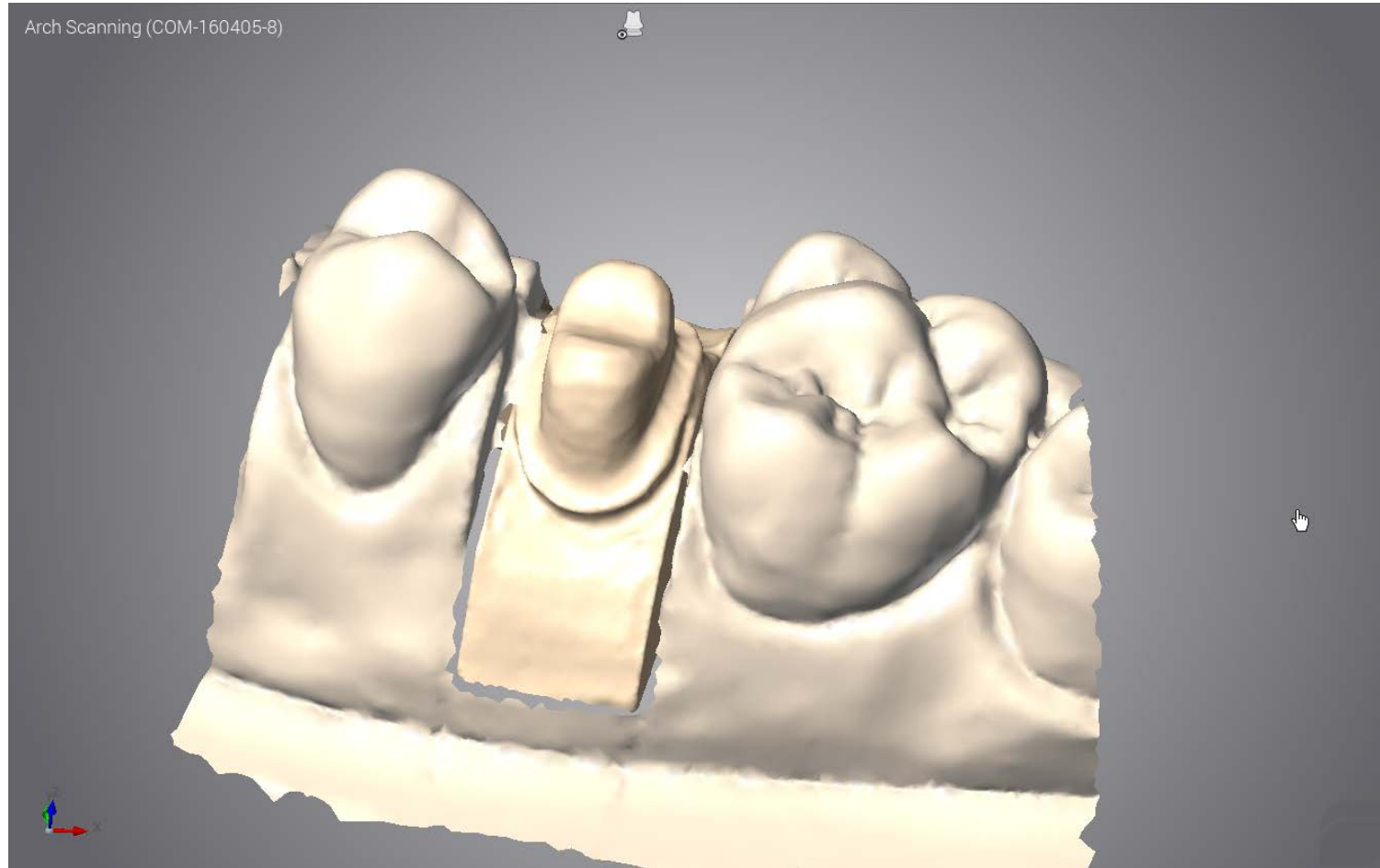
- Buccal in arrow direction





ARCH SCAN 1 : DIE SCAN

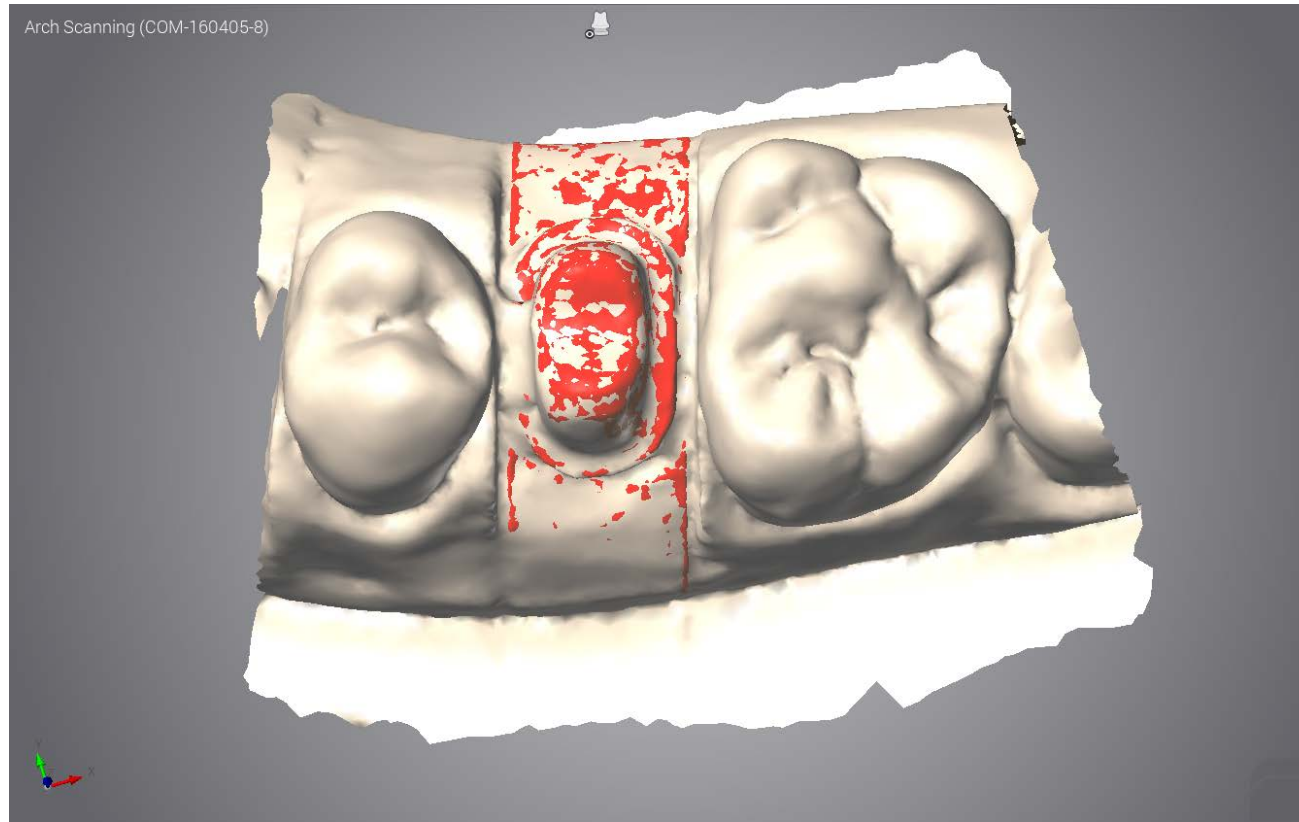
- No missing area





ARCH SCAN 1 : REPOSITIONING

- Potential repositioning error
- Repositioning functions





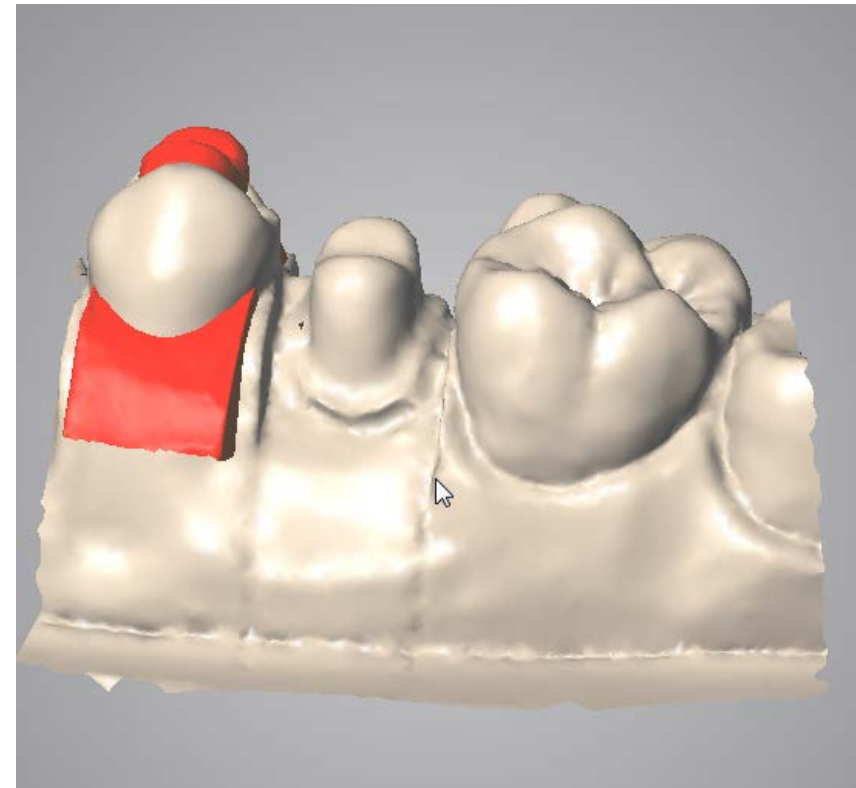
ARCH SCAN 1 : REPOSITIONING



Good repositioning



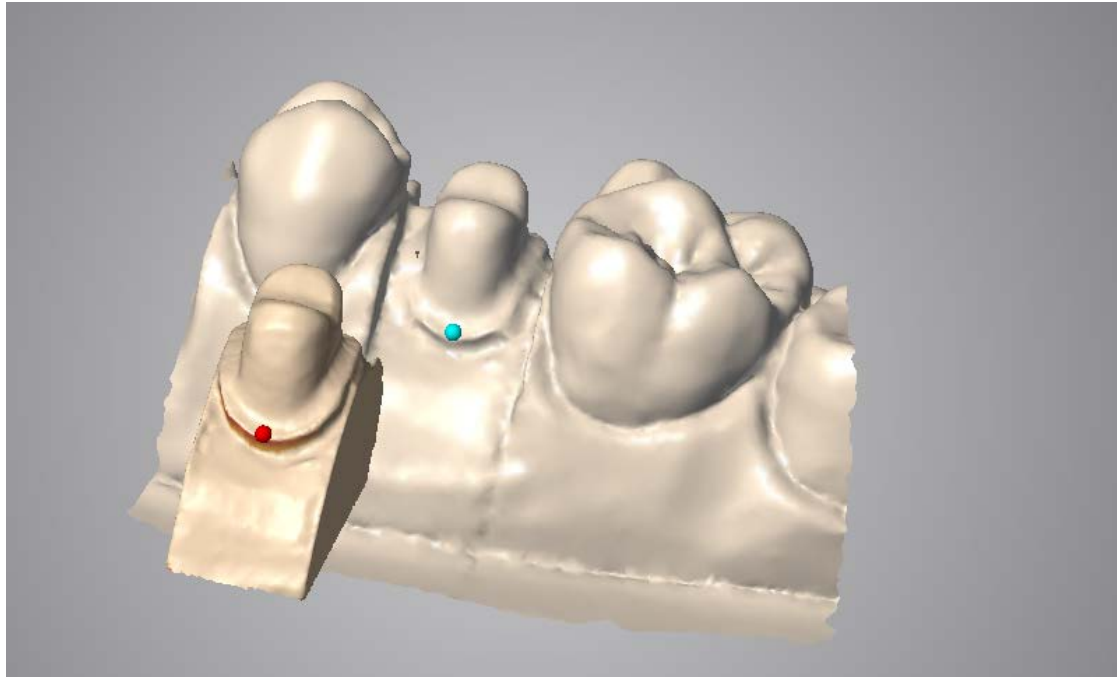
Bad repositioning





ARCH SCAN 1 : REPOSITIONING

- Two repositioning functions
 - Simple repositioning

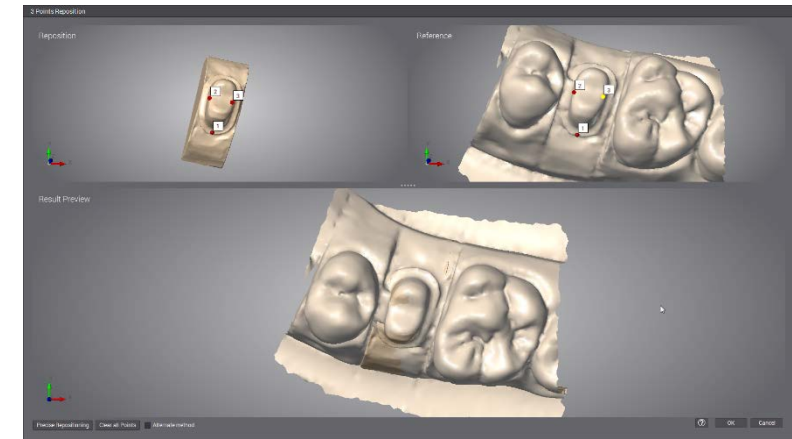
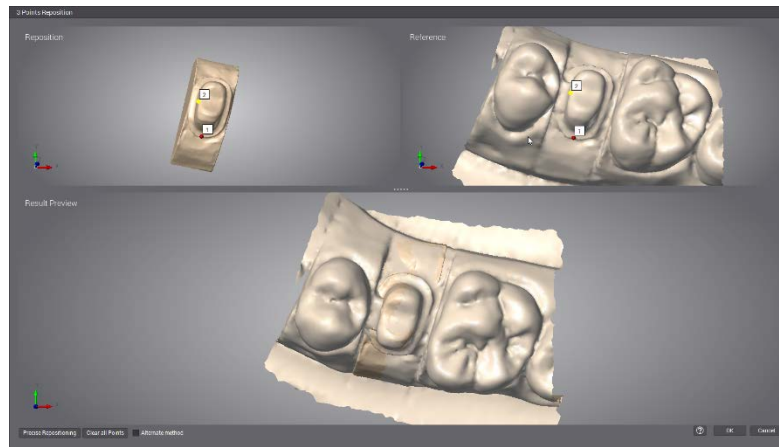
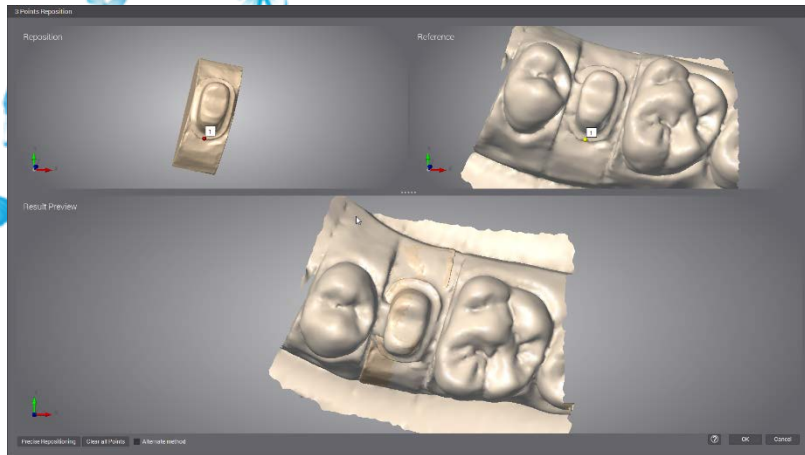


Note the order of definition. The red dot on the die was placed outside the arch



ARCH SCAN 1 : REPOSITIONING

- Two repositioning functions
 - Advanced repositioning

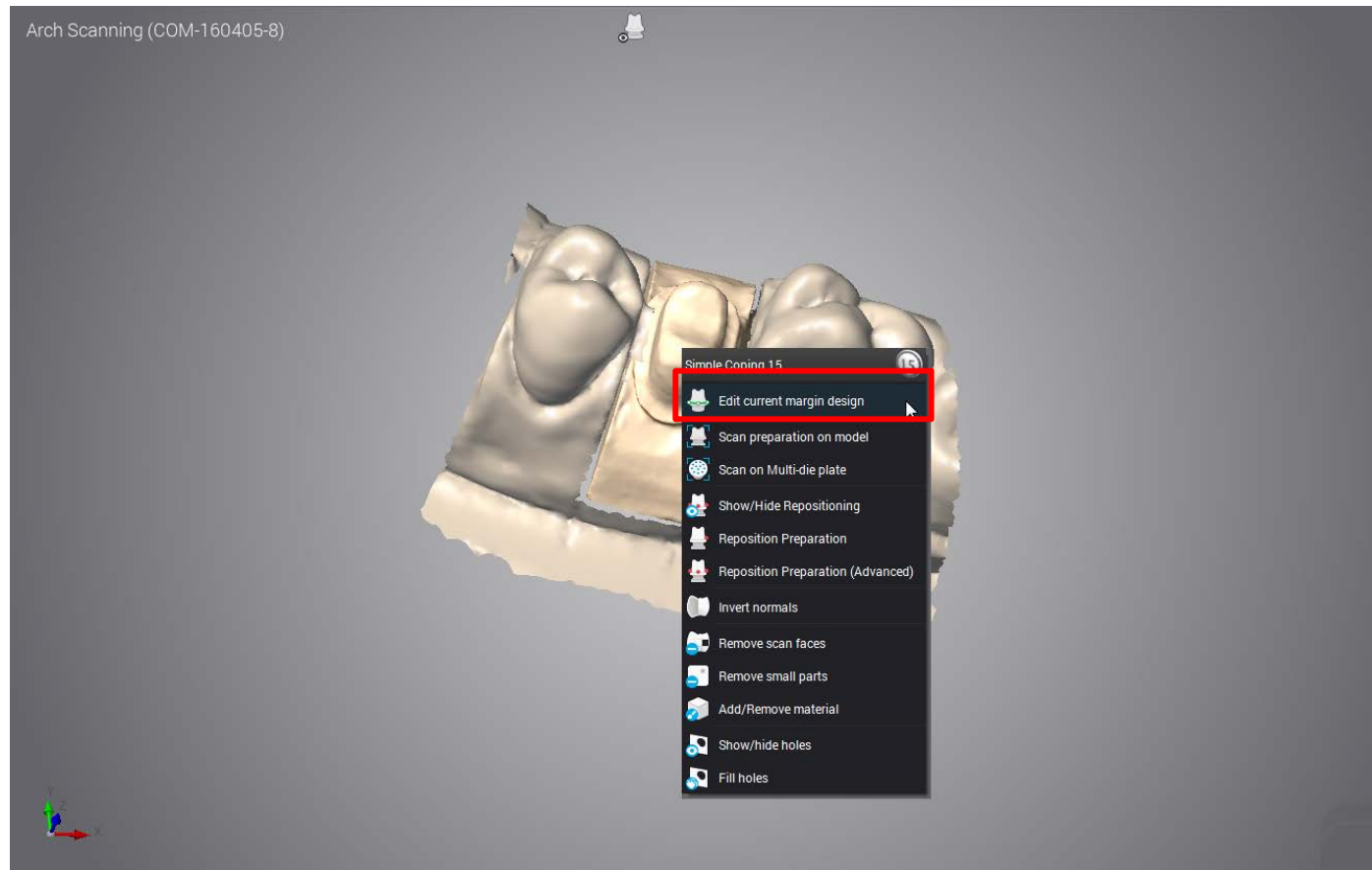


Take care to the order of definition.



ARCH SCAN 1 : MARGIN LINE

- By local menu
- By toolbar

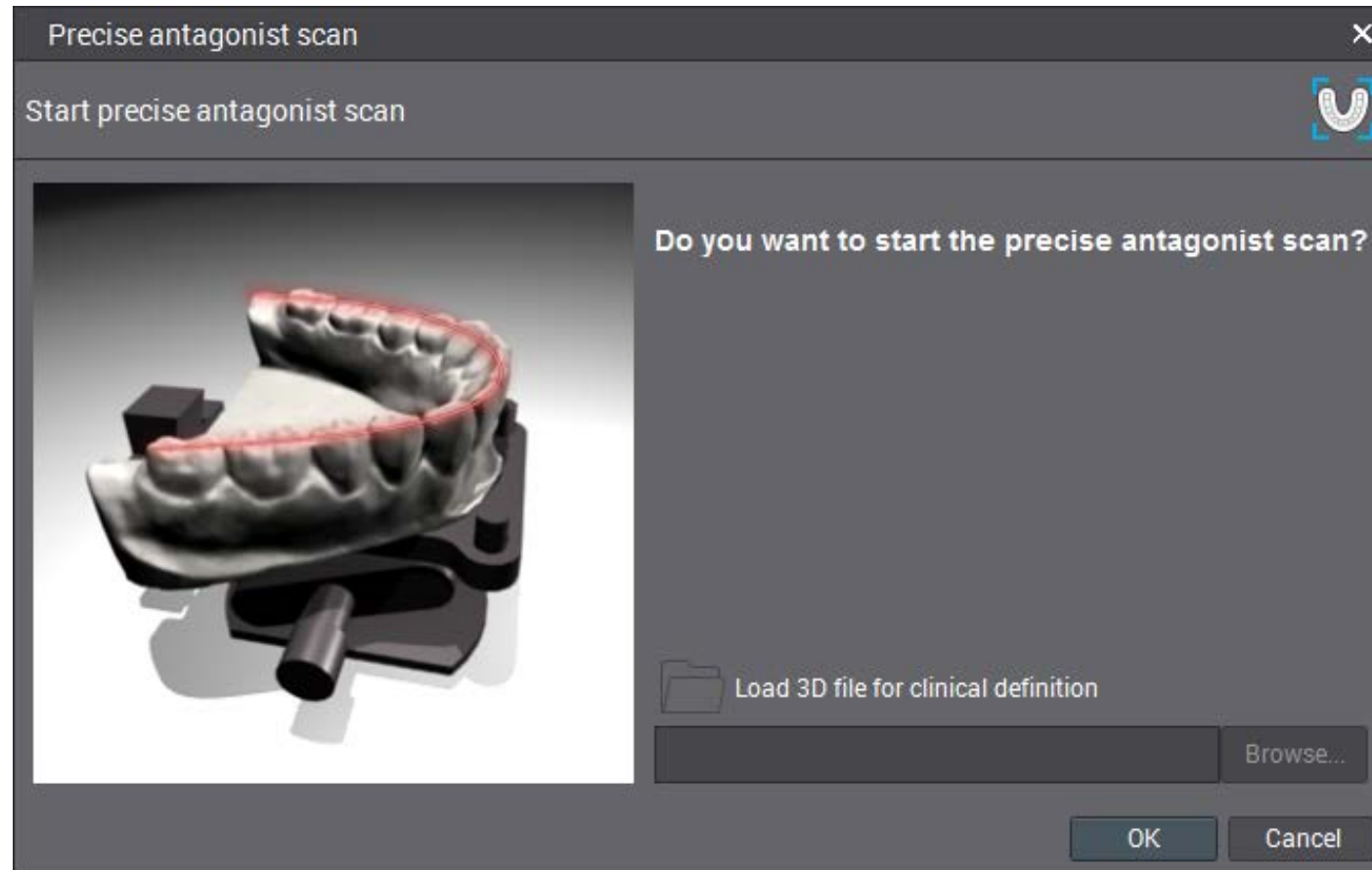




ARCH SCAN 1 : CHECKBITE PREVIEW



- Install check bite

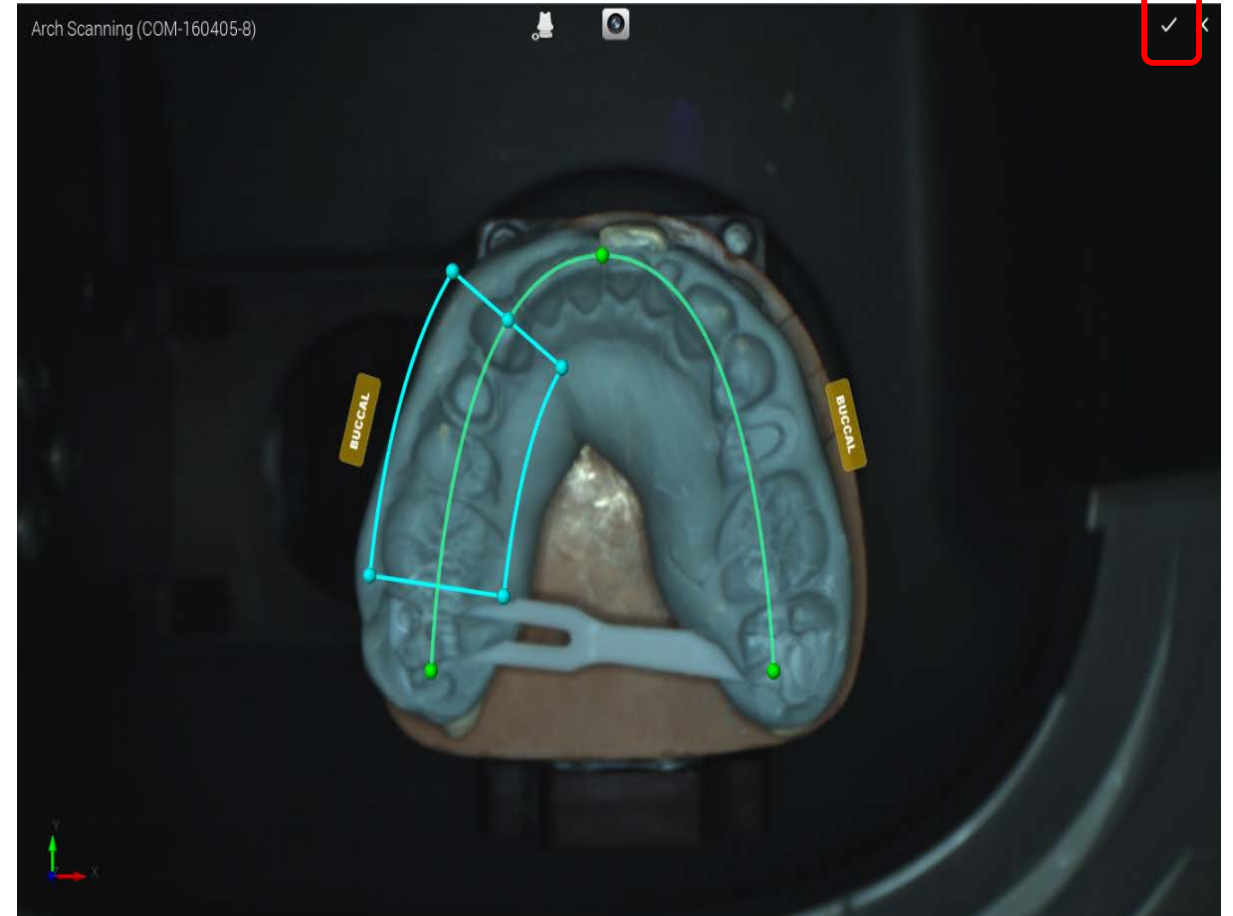




ARCH SCAN 1 : CHECKBITE AREA OF INTEREST



- Orient the die
- Orient the checkbite
- Define area of interest
- Start scanning

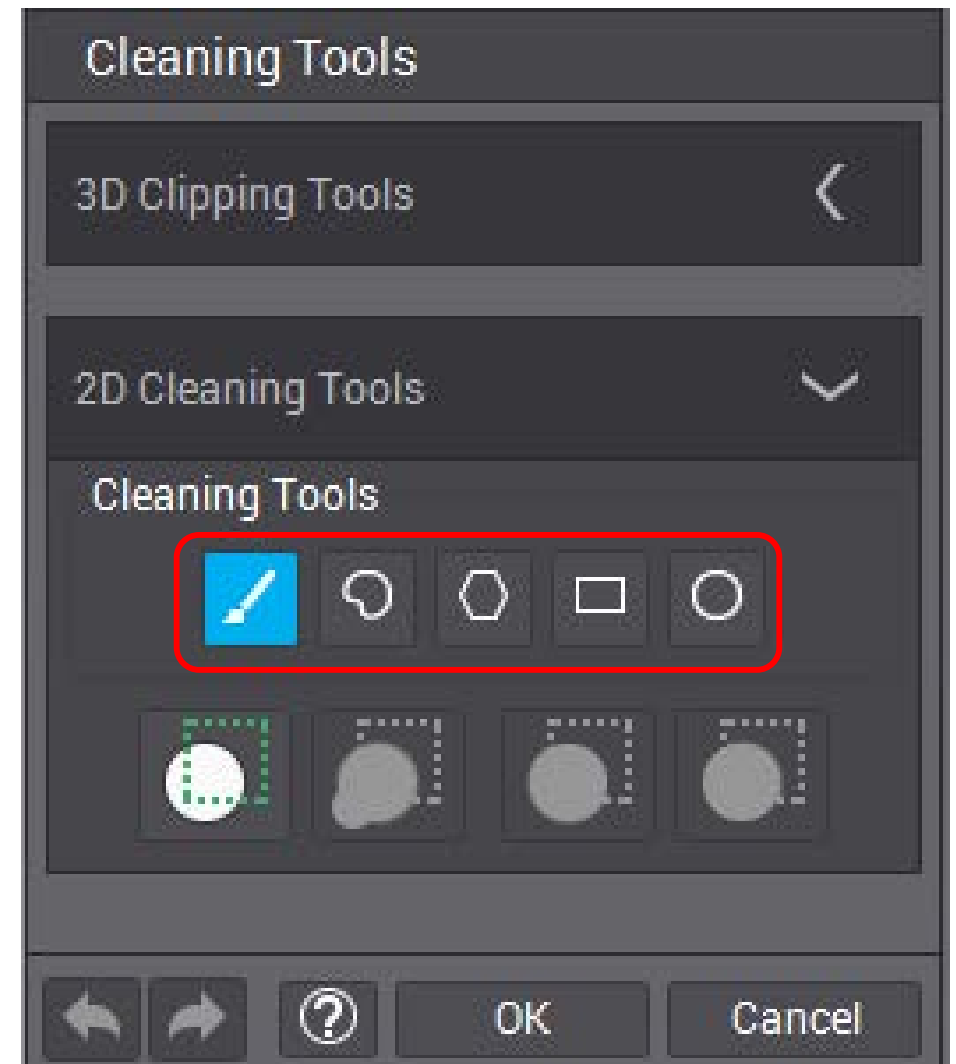




ARCH SCAN 1 : CHECKBITE CLEANING



- Different cleaning tools:
- 2D tools
 - Paint
 - Spline
 - Polygonal
 - Rectangular
 - elliptical



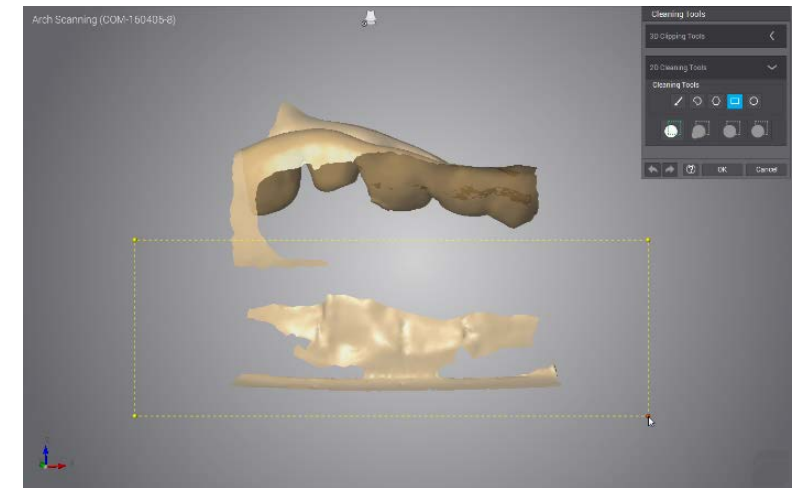
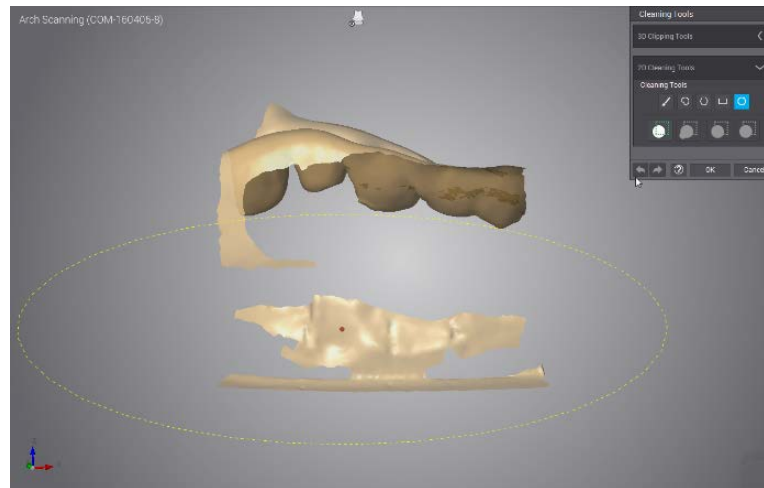
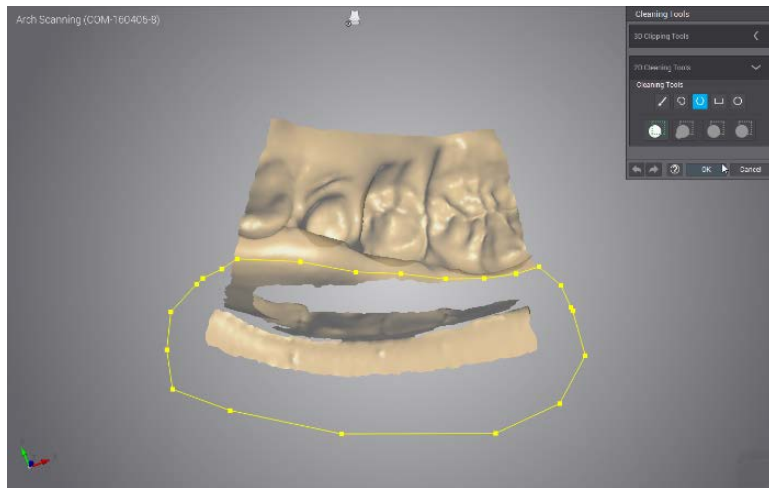


ARCH SCAN 1 : CHECKBITE CLEANING

- Check the view
- Select a zone



don't move checkbite after checking the view





ARCH SCAN 1 : CHECKBITE CLEANING

- Confirm zone

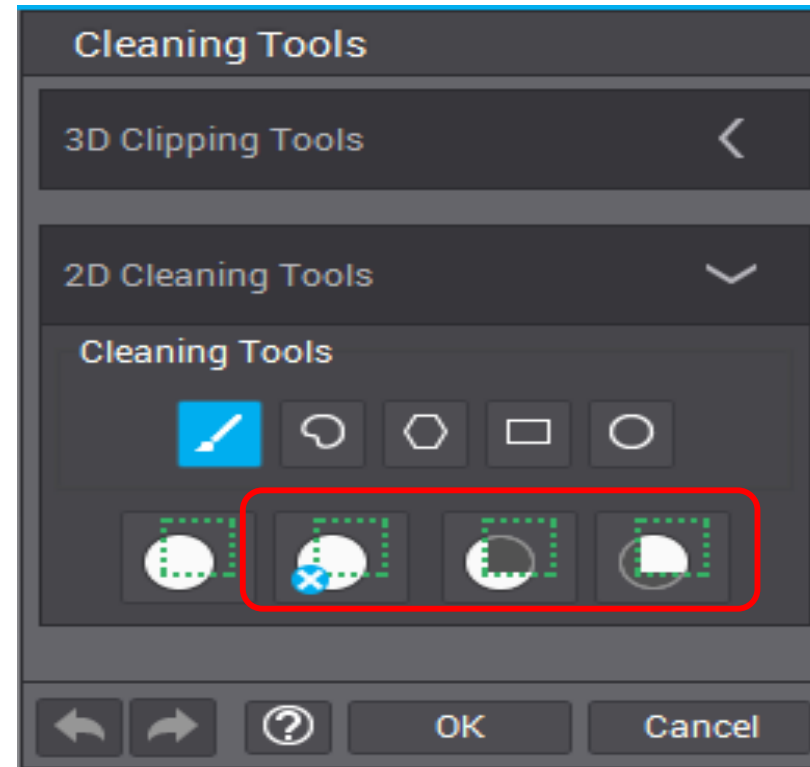




ARCH SCAN 1 : CHECKBITE CLEANING



- Choose cleaning action:
- Reset the selection
- Delete the selection
- Keep the selection



- Undo redo at this step





ARCH SCAN 1 : CHECKBITE CLEANING



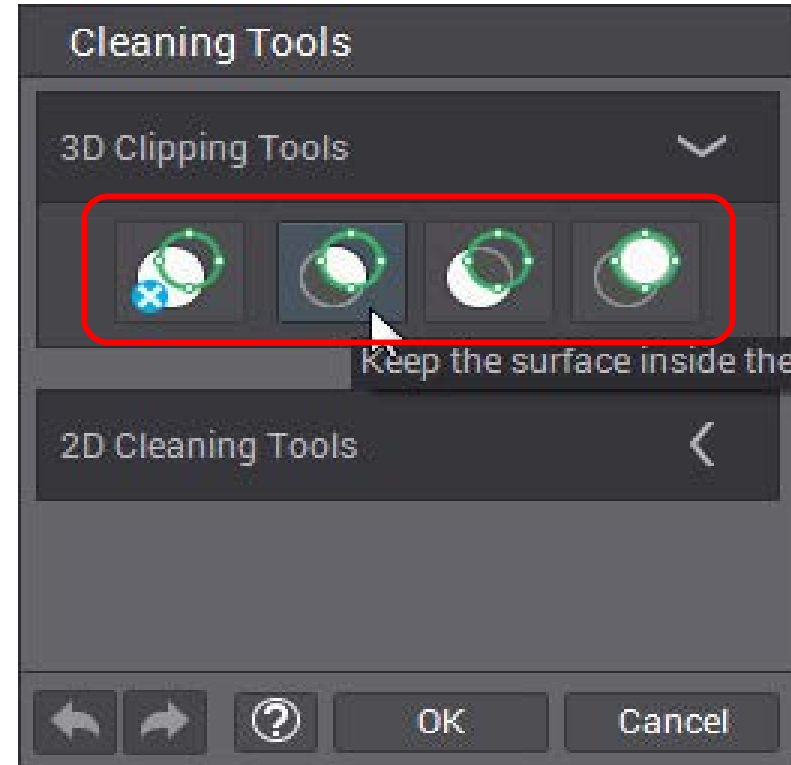
- Different cleaning tools:

- 3D tools:

- Draw the line

- Choose cleaning action

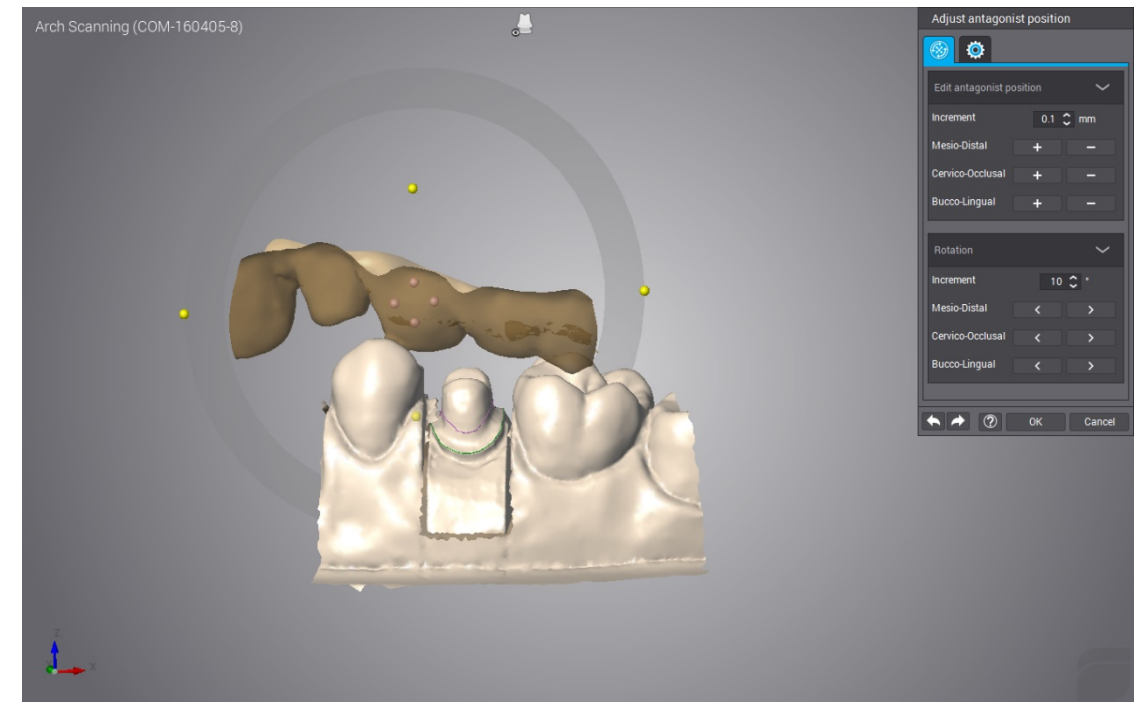
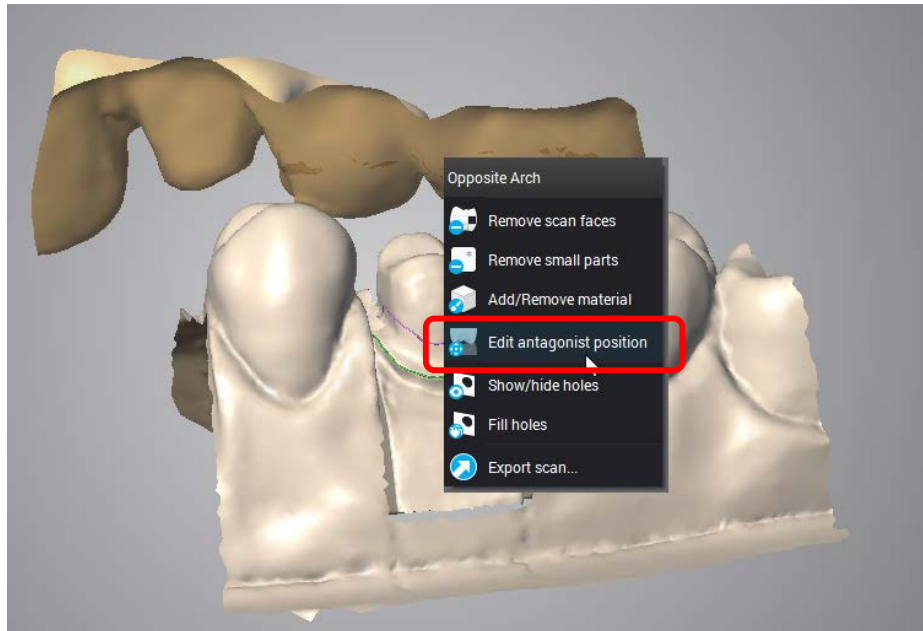
- Undo redo at this step





ARCH SCAN 1 : ADJUST CHECKBITE POSITION

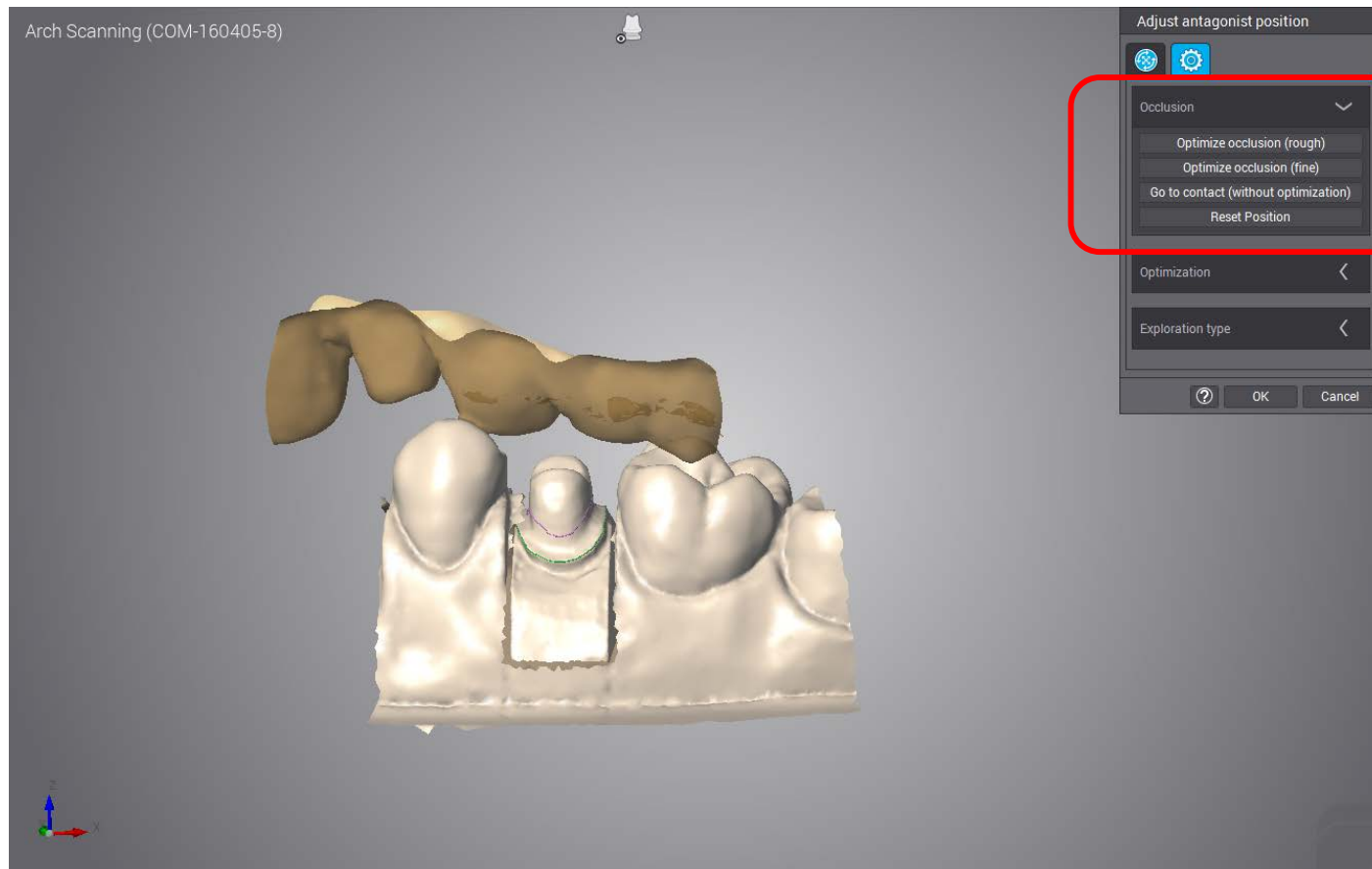
- Die only
- Check position
- Incremental adjustment
- Adjusting position tool





ARCH SCAN 1 : ADJUST CHECKBITE POSITION

- Auto adjust antagonist position
- Rough, fine and without optimization occlusion





ARCH SCAN 1 : REDO, AD SCANS, EXIT



- Redo action



- Ad scans



- Exit



CAD1

CLINICAL COPING ON SCAN 1





CAD 1: INTRODUCTION



- CAD Design



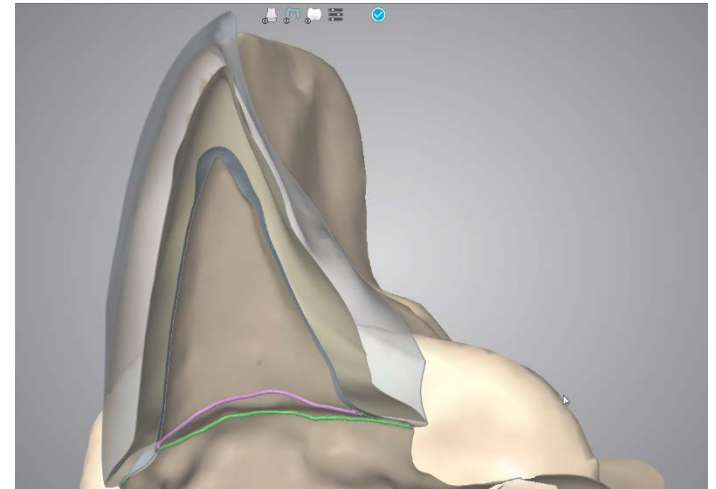
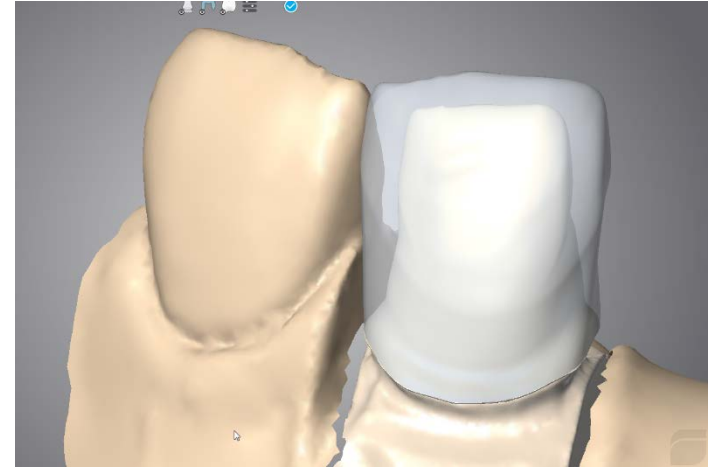


CAD 1: ANATOMY & OVERLAY



- Anatomy: full morphology

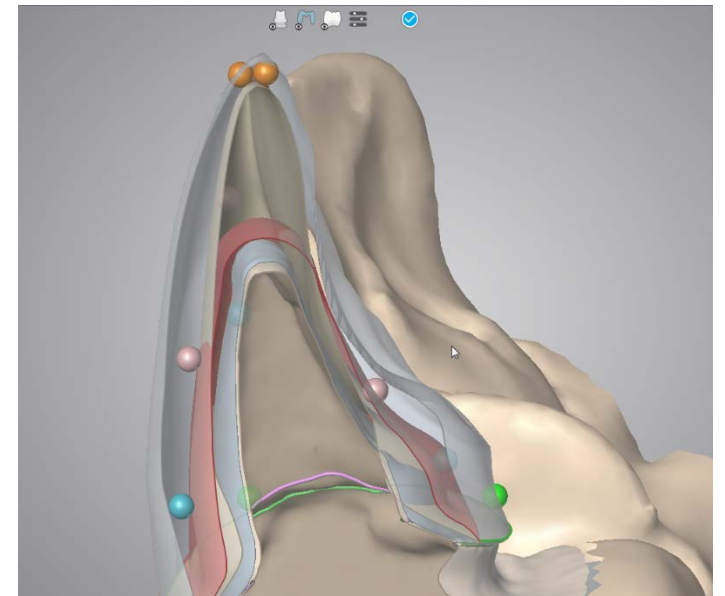
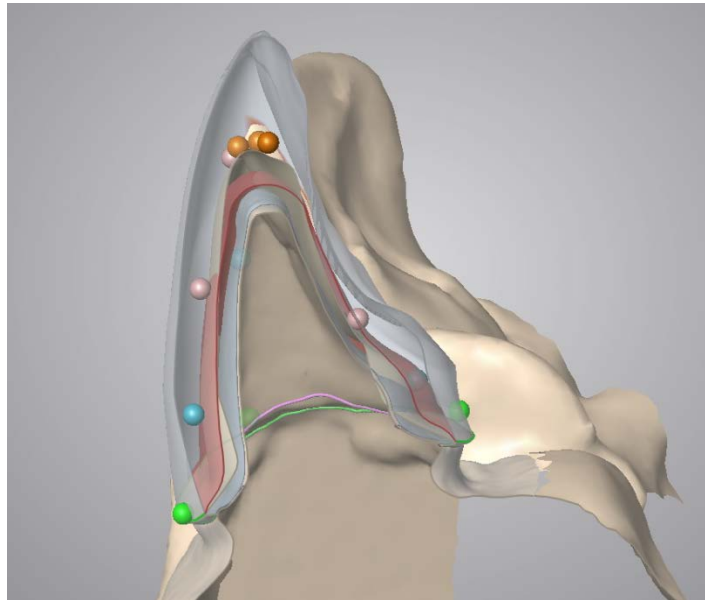
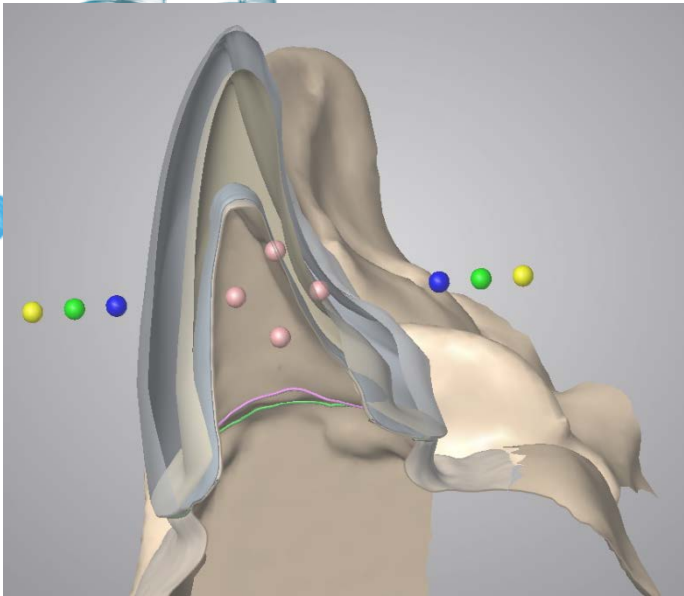
- Overlay: framework





CAD 1: ANATOMY & OVERLAY

- Overlay automatically computed from anatomy

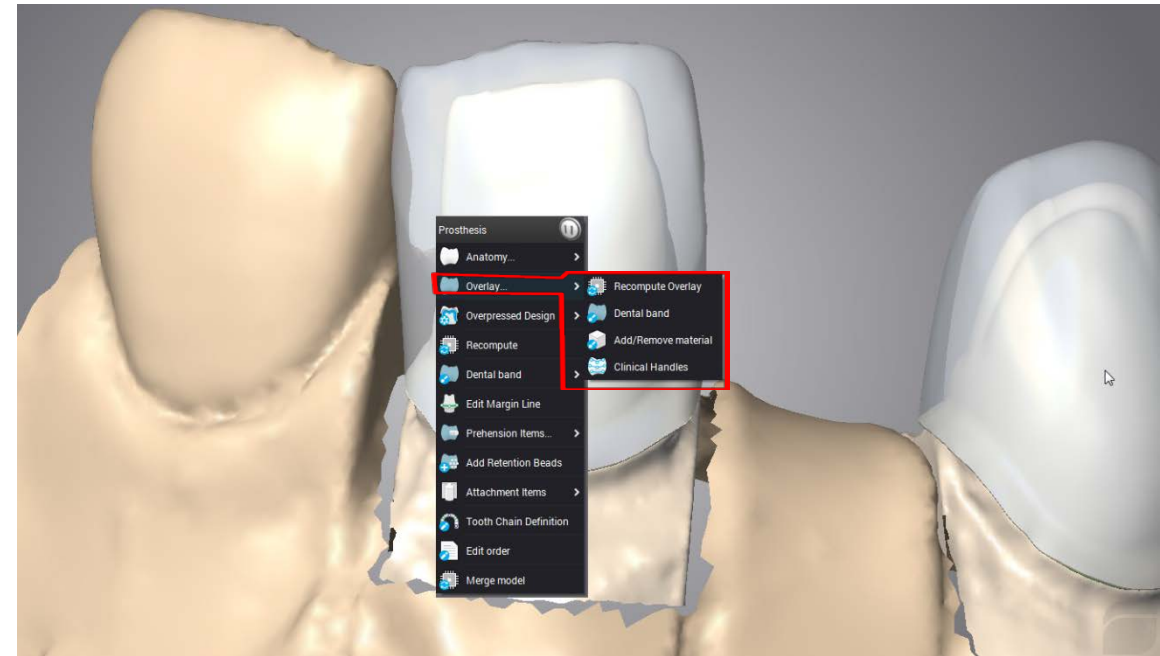
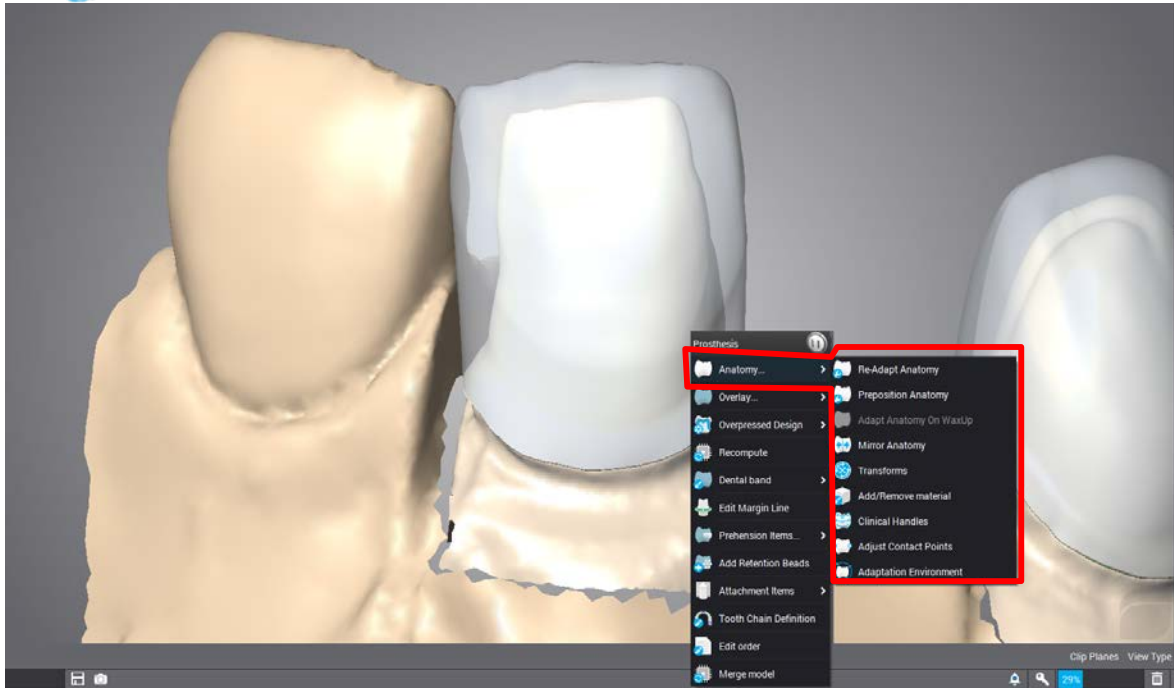


- Anatomy not affected by Overlay modification



CAD 1: ANATOMY & OVERLAY

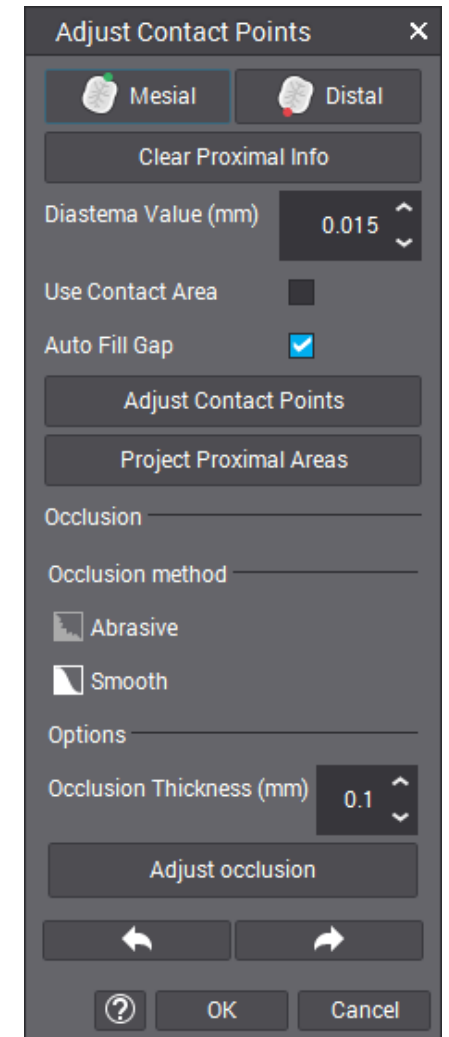
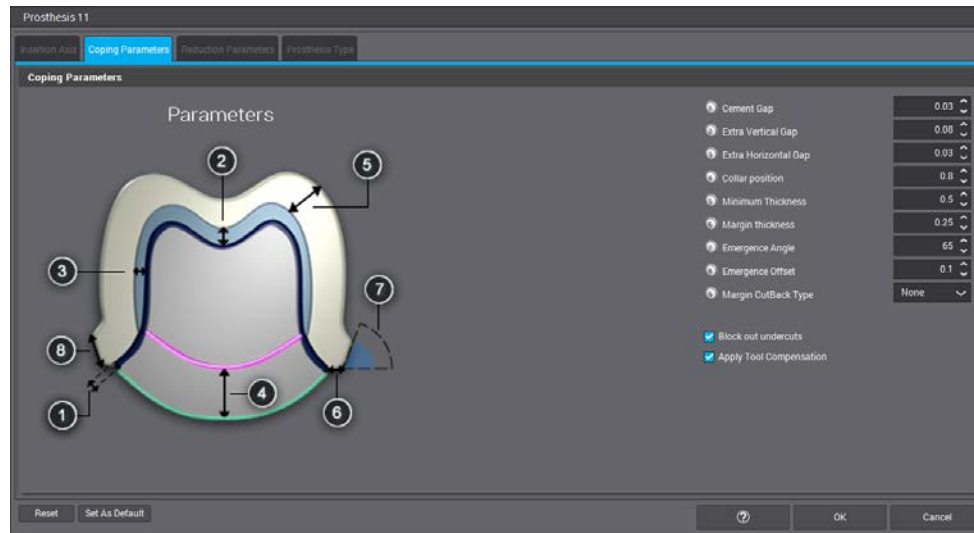
- Different actions accessible on Anatomy & Overlay





CAD 1: PARAMETERS

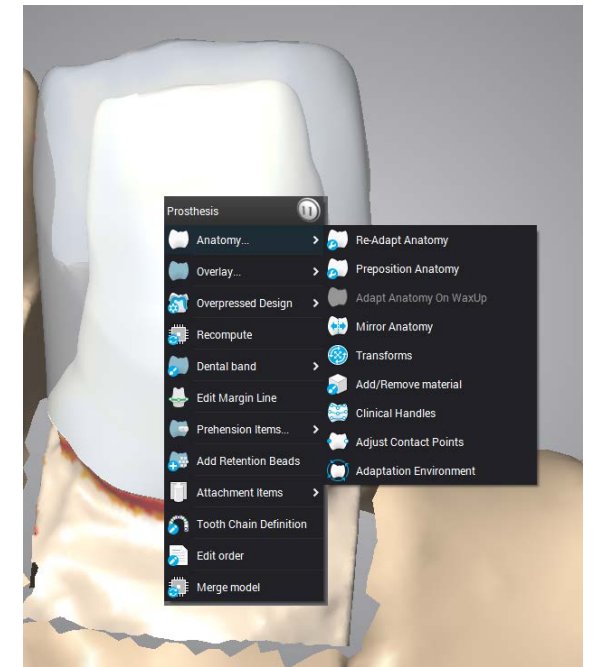
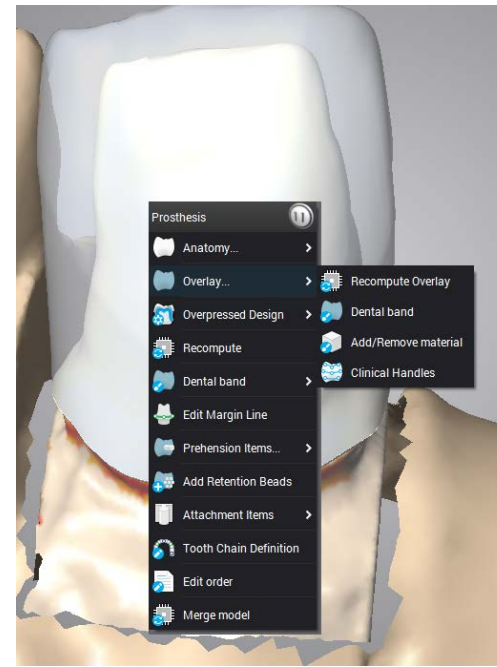
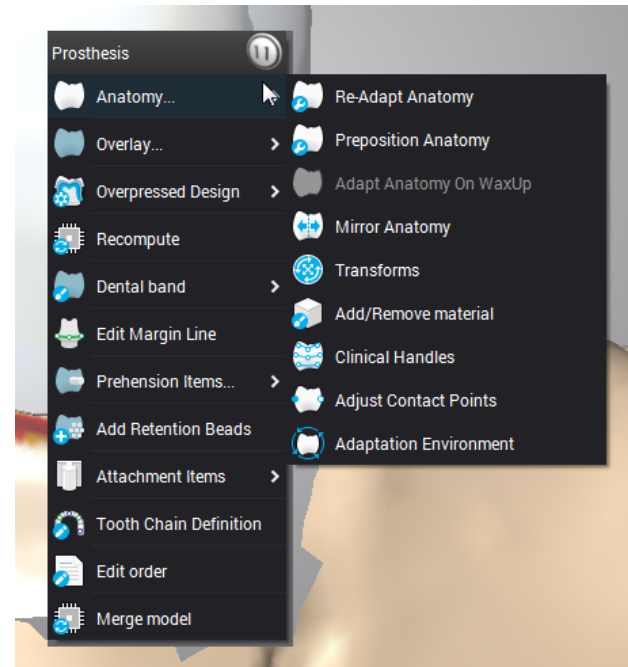
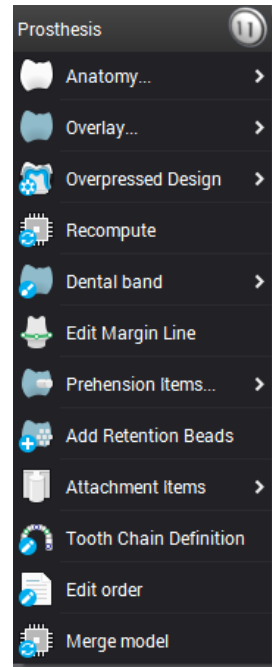
- Clinically oriented software
- Two ways
- Parameters tables
- Tools parameters





CAD 1: REDO & READAPT

- Very flexible software
- Always possible to change





CAD 1: ANATOMY KIT

- Anatomy kit for automatic proposal
- Several default kits
- Anatomy editor





CAD 1: EDITING

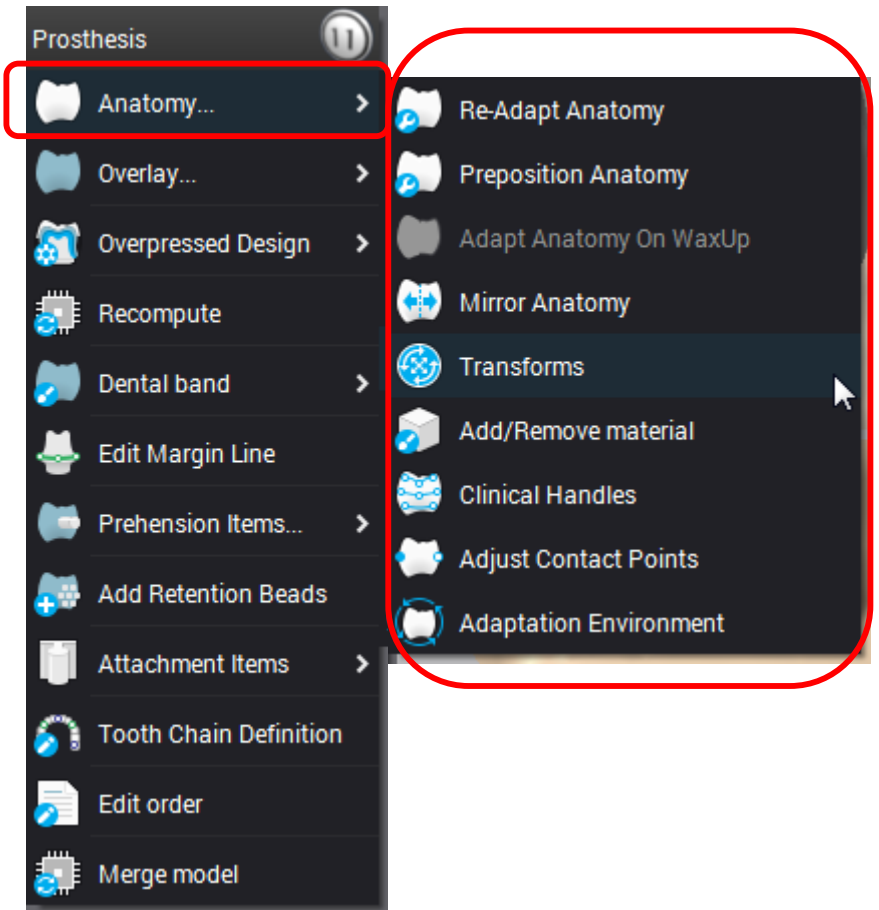
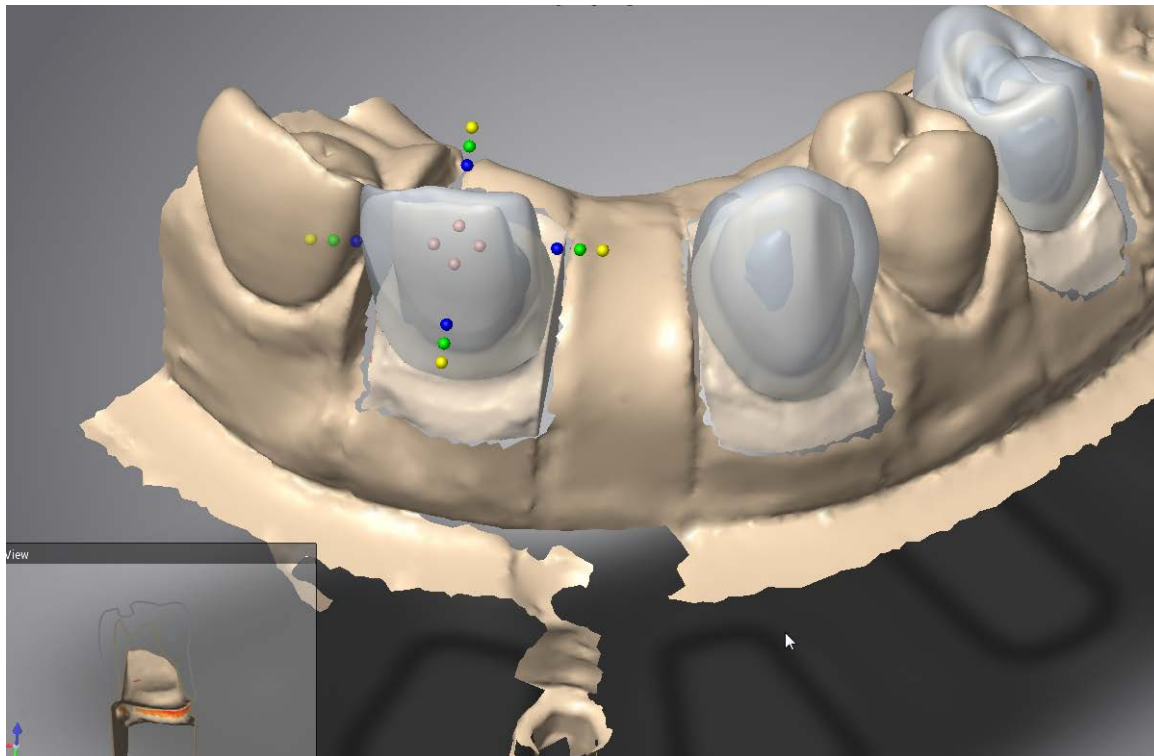


- Different levels
- Whole prosthesis
- Clinical area
- Local



CAD 1: TRANSFORMS

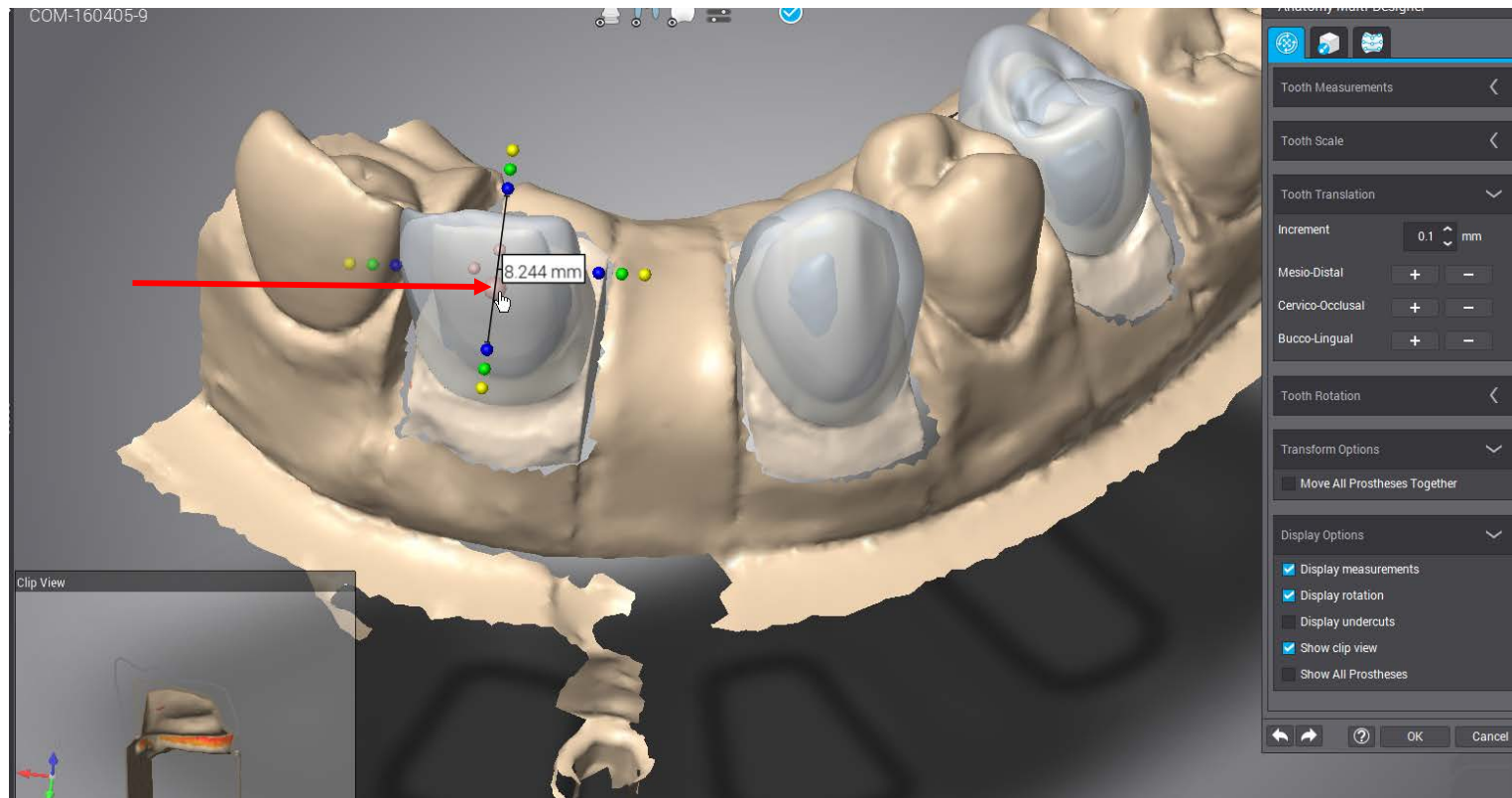
- Whole prosthesis
- Anatomy





CAD 1: TRANSFORMS

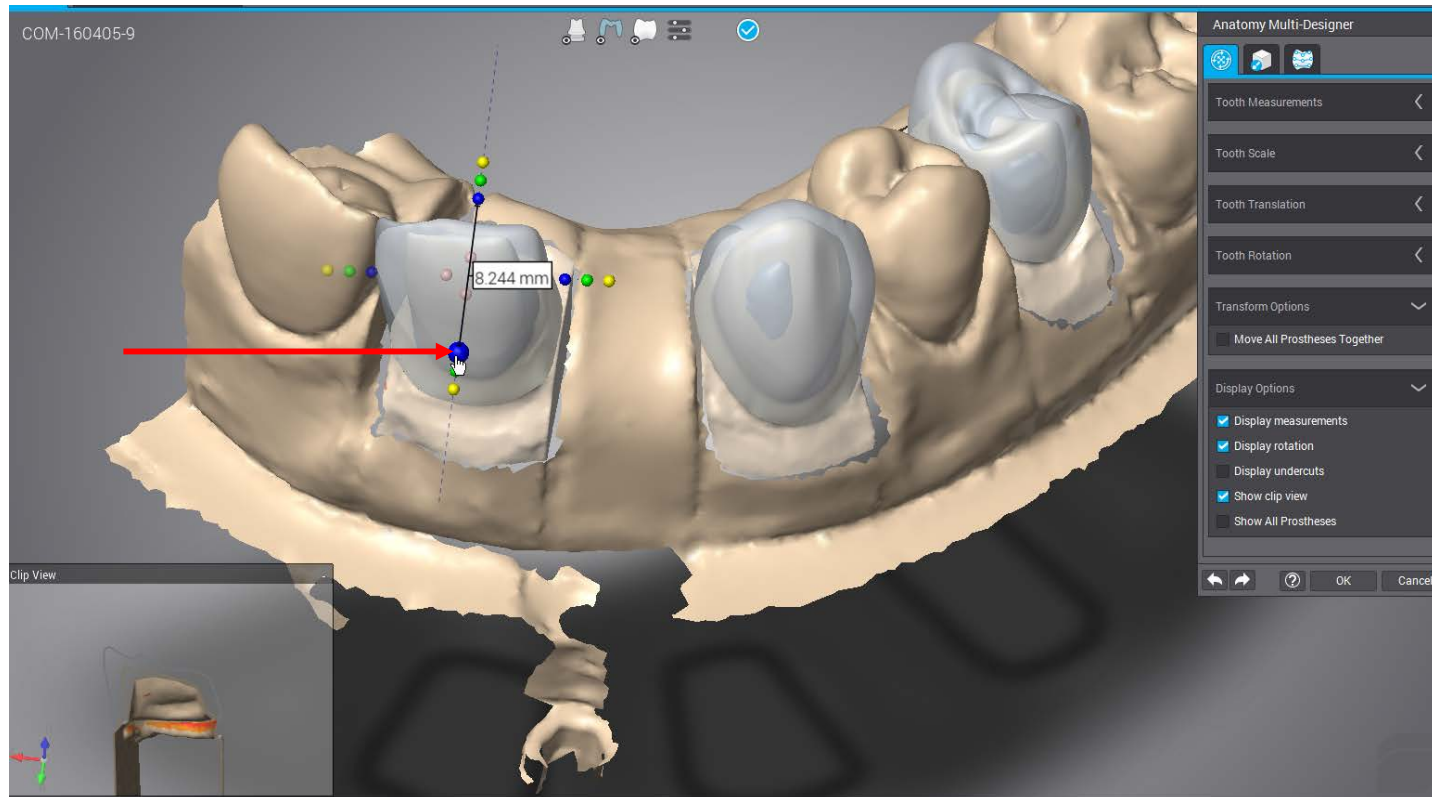
- Multiple possible actions
- Translate





CAD 1: TRANSFORMS

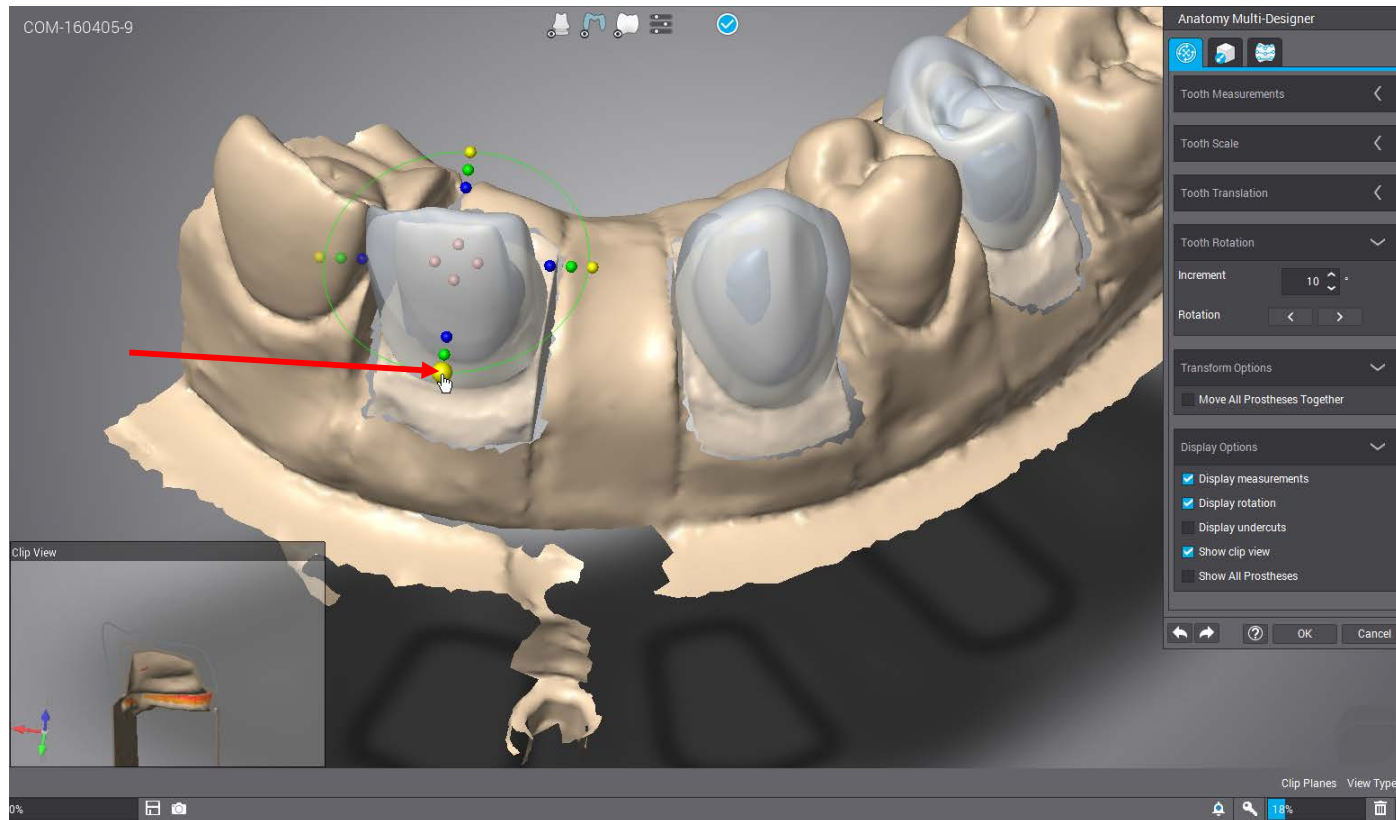
- Multiple possible actions
- Scale





CAD 1: TRANSFORMS

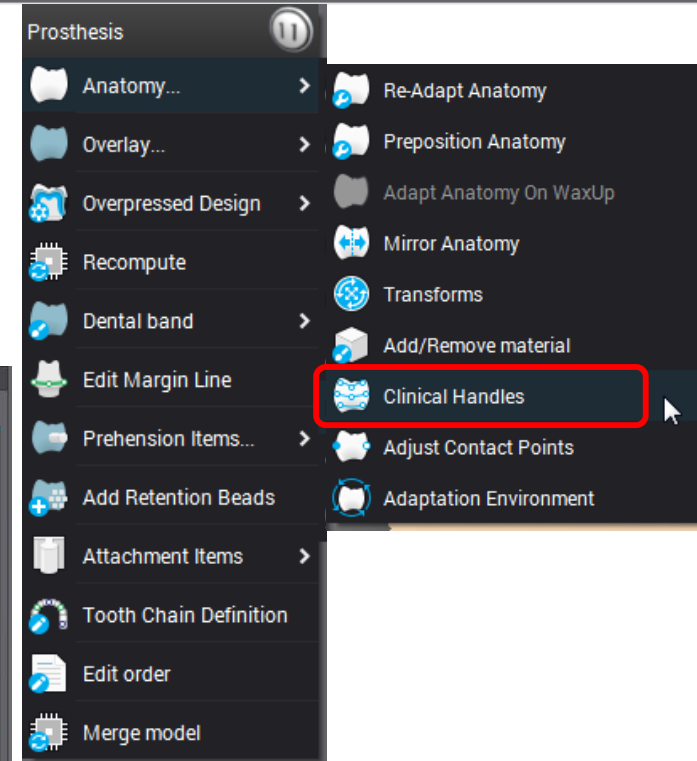
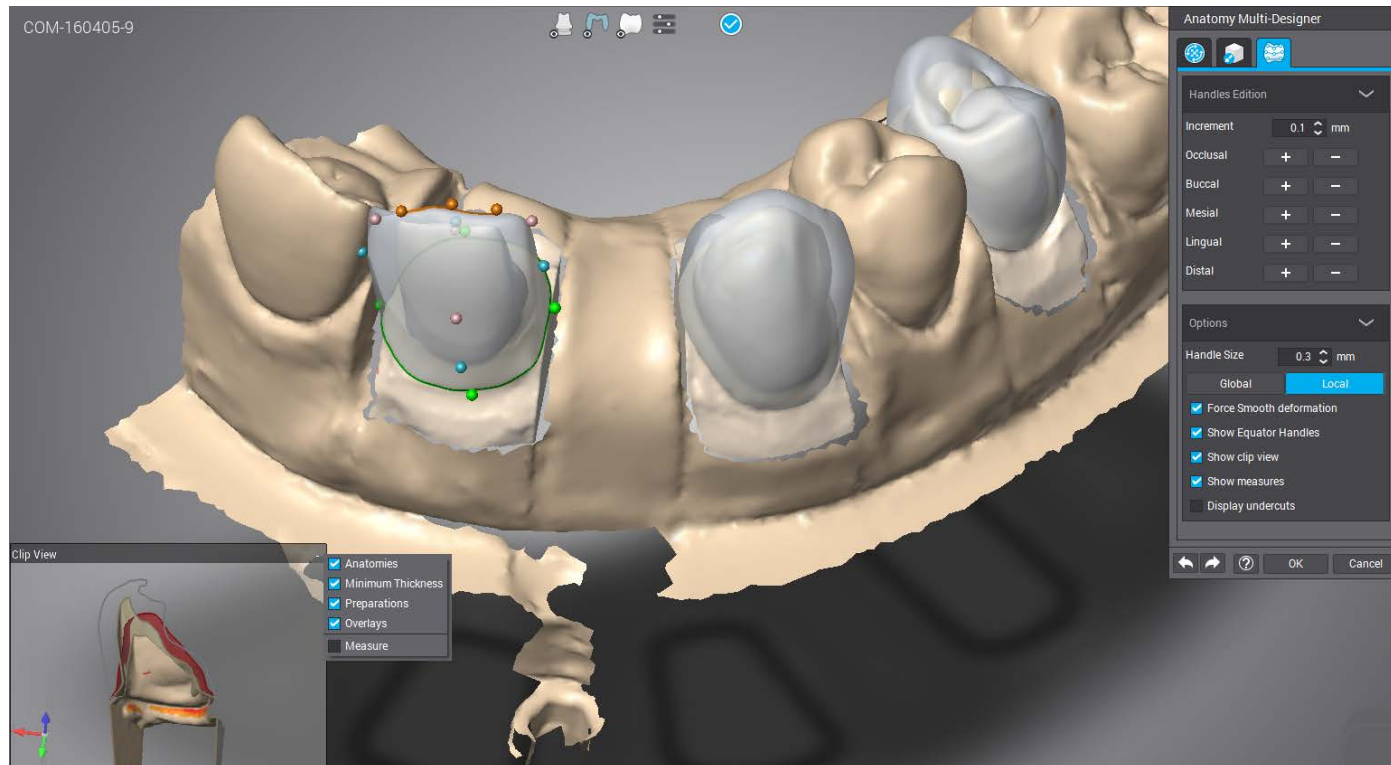
- Multiple possible actions
- Rotate





CAD 1: CLINICAL HANDLES

- Clinical area
- Anatomy & overlay

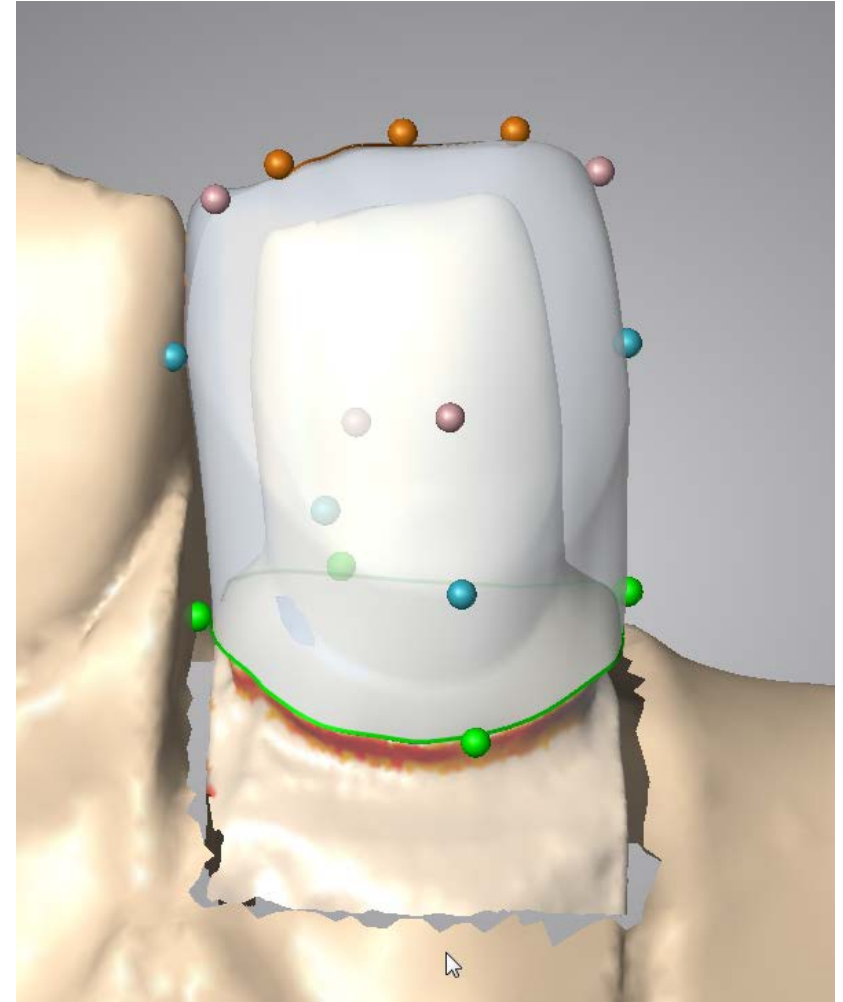




CAD 1: CLINICAL HANDLES



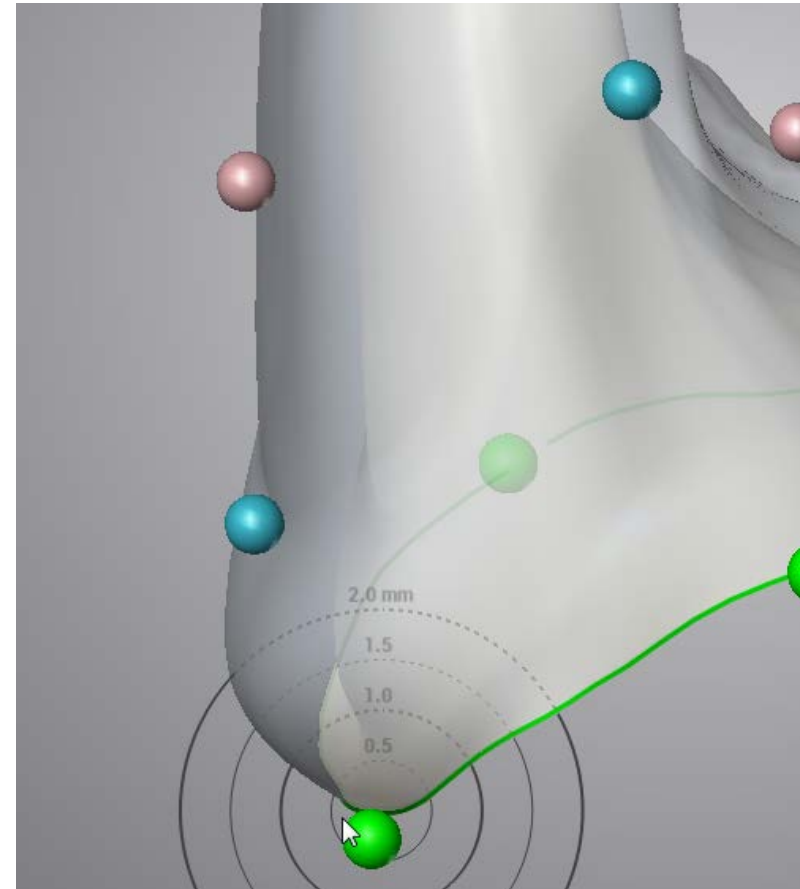
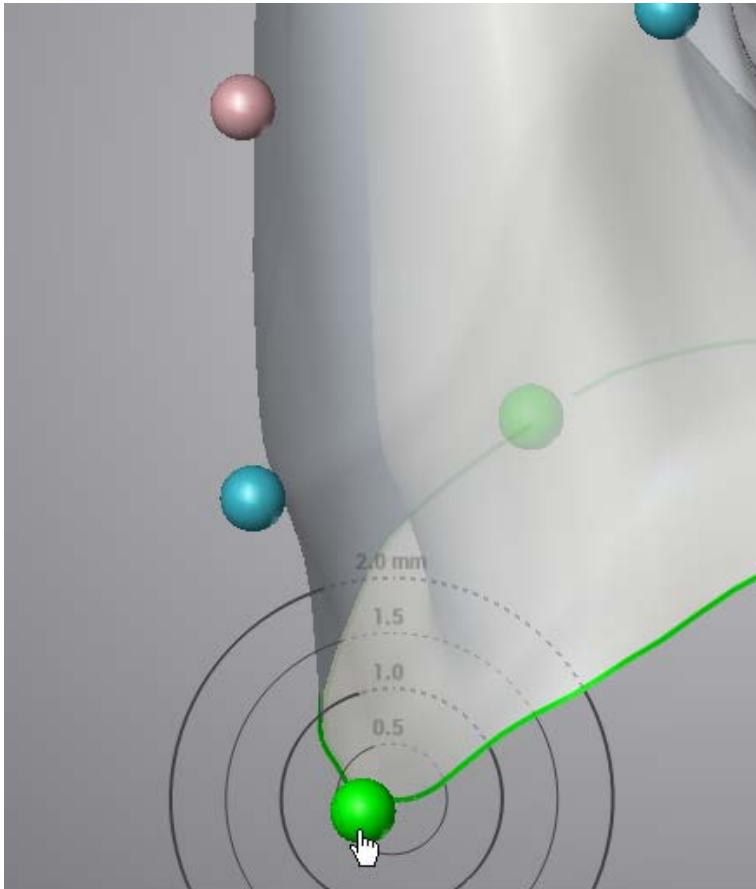
- Die only
- Move handle line with CTRL
- Add handles
- Area defined by next handles





CAD 1: CLINICAL HANDLES

- Profile management with mouse wheel & left click

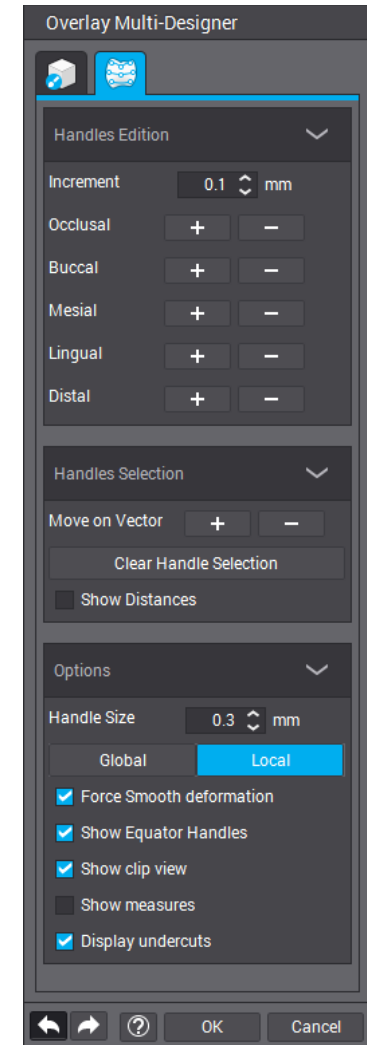
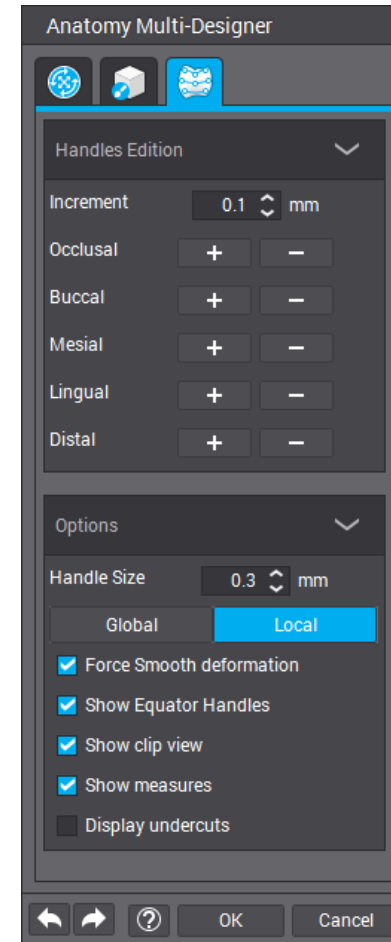




CAD 1: CLINICAL HANDLES



- Incremental modification
- Specific for overlay

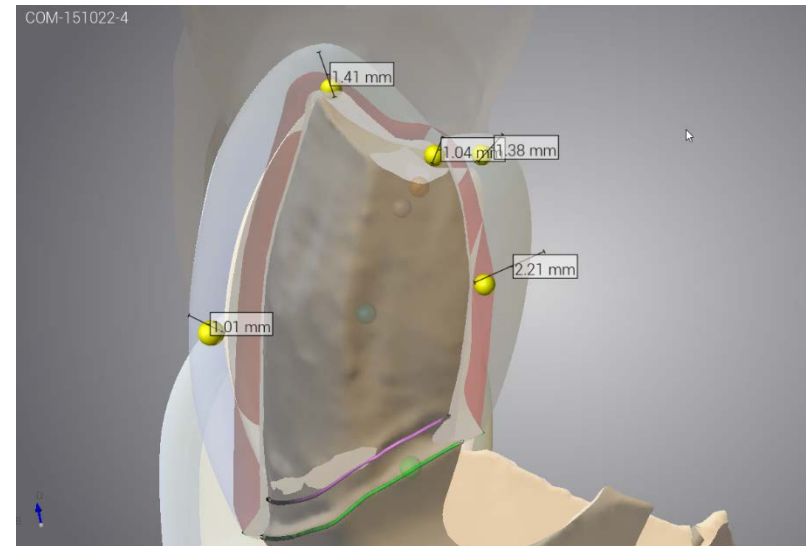
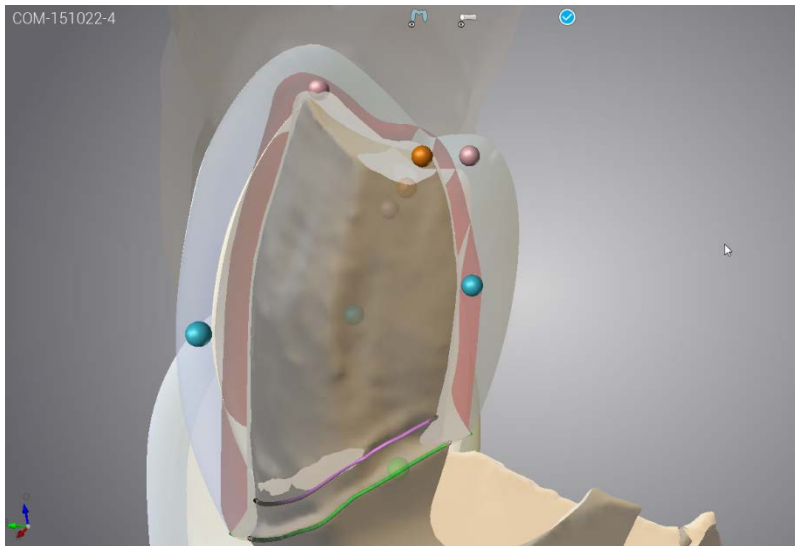
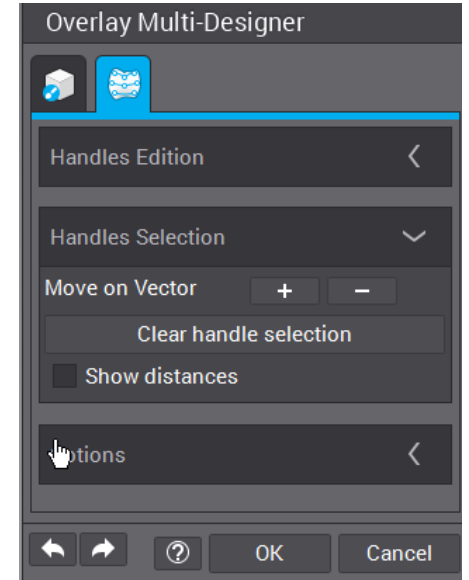




CAD 1: CLINICAL HANDLES



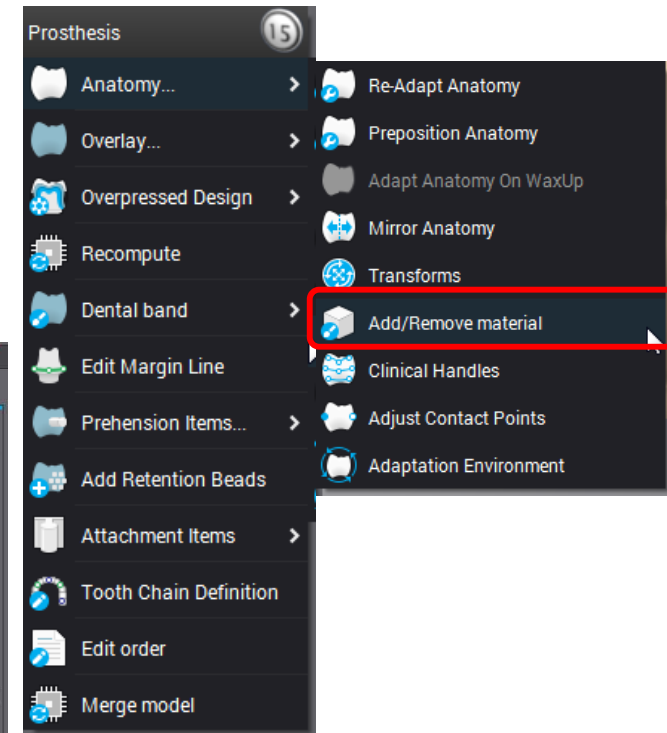
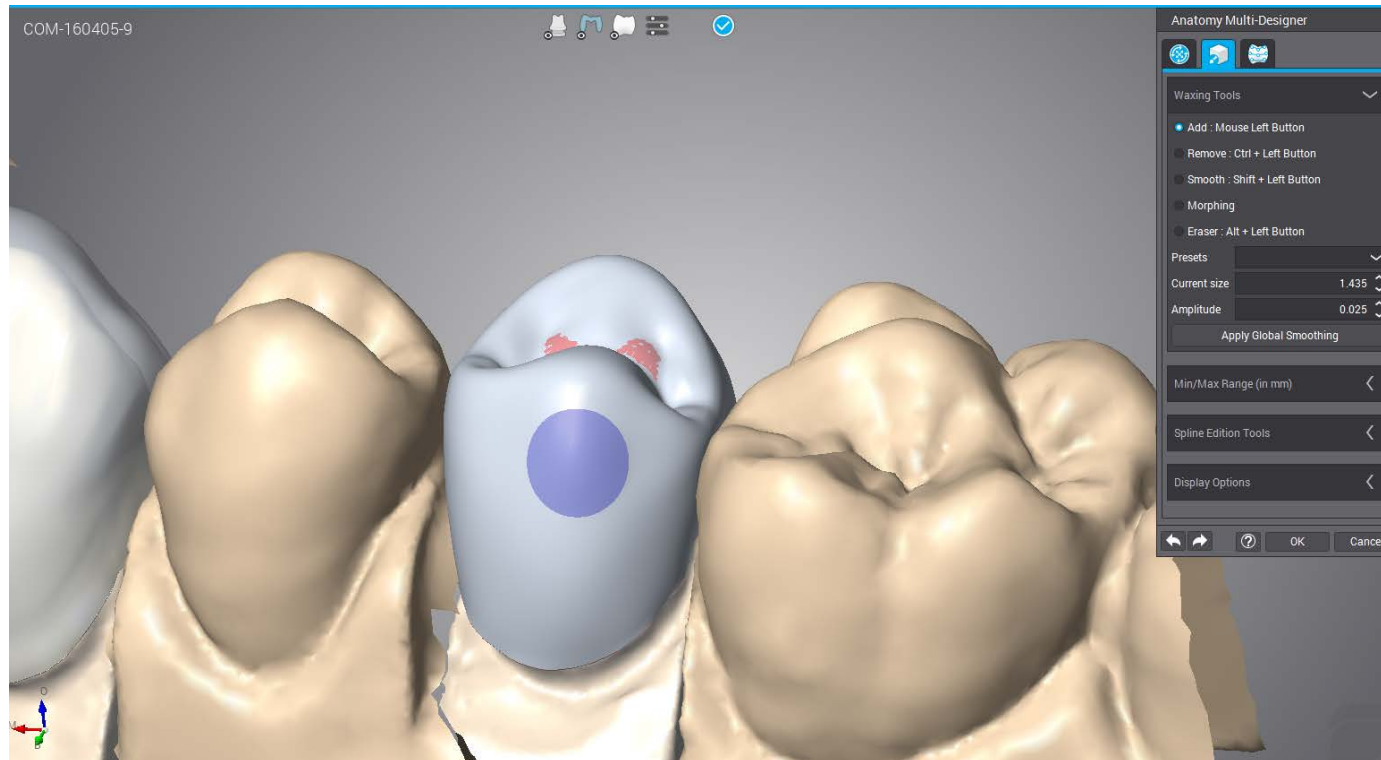
- Die only
- Move on vector
- Movement with respect to the anatomy
- Select handles with CTRL





CAD 1: ADD/REMOVE MATERIAL

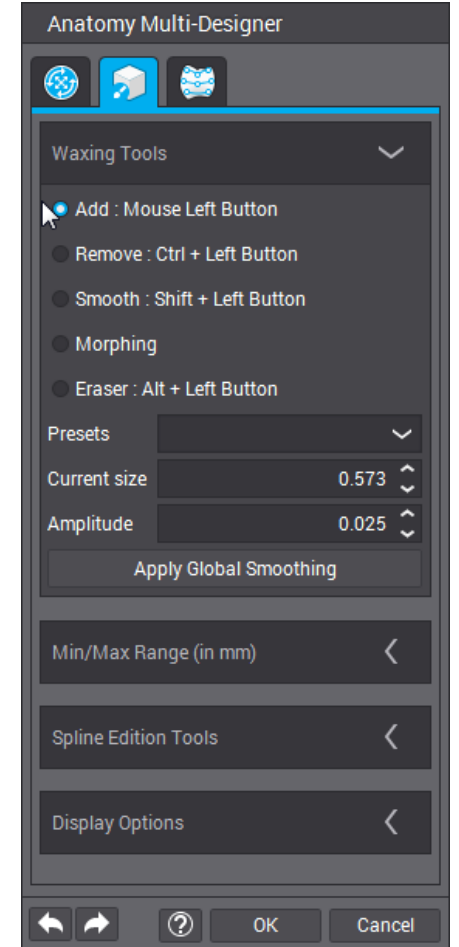
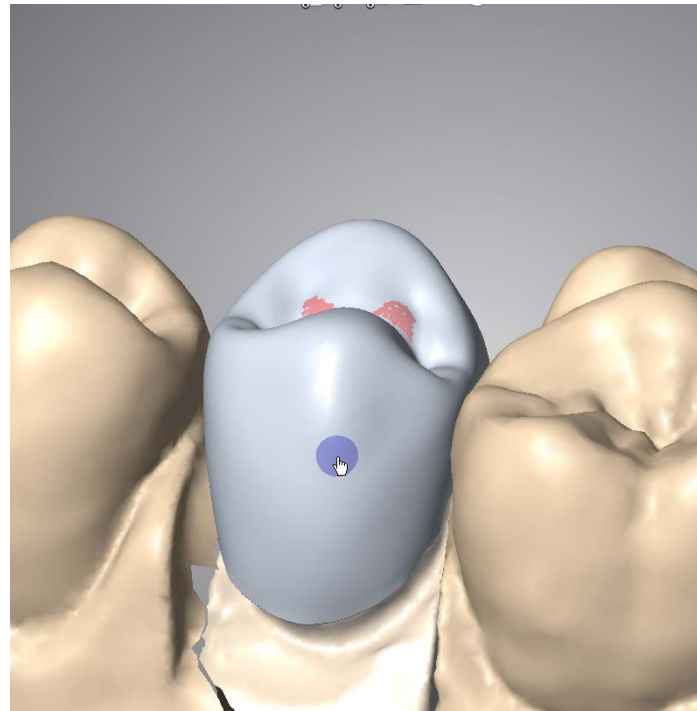
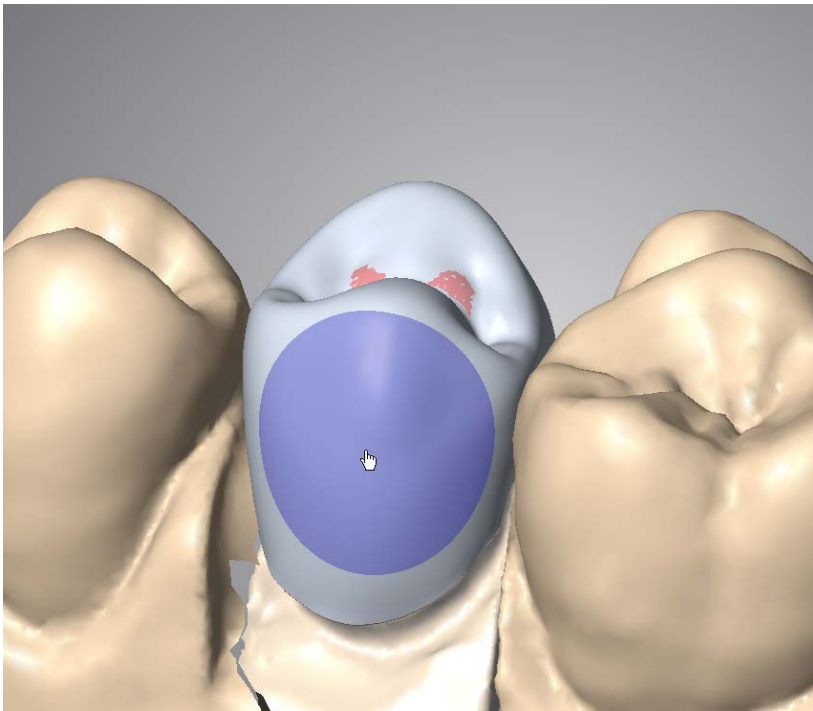
- Local
- Anatomy & Overlay





CAD 1: ADD/REMOVE MATERIAL

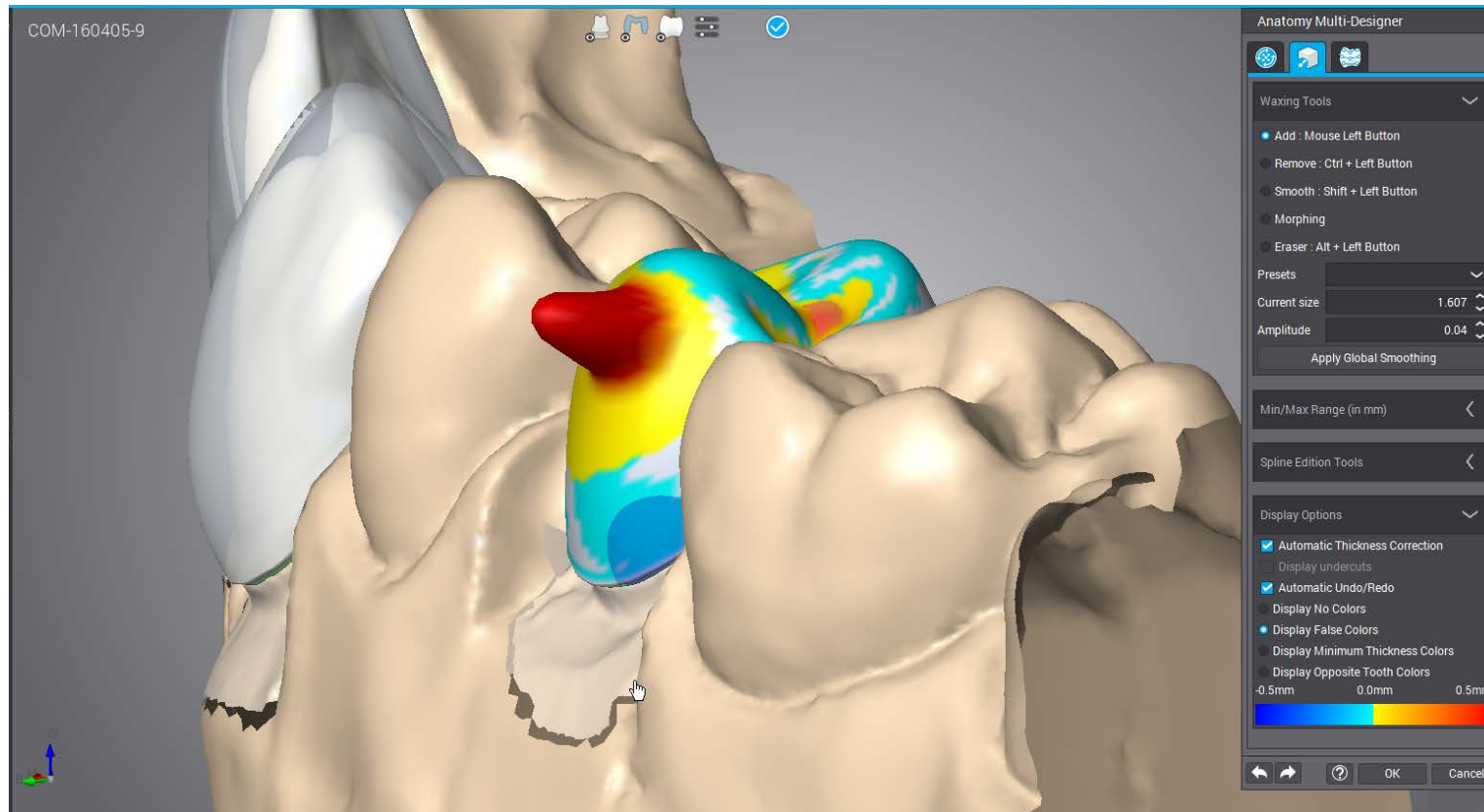
- 5 waxing modes
- Size tools adjustable using mouse wheel





CAD 1: ADD/REMOVE MATERIAL

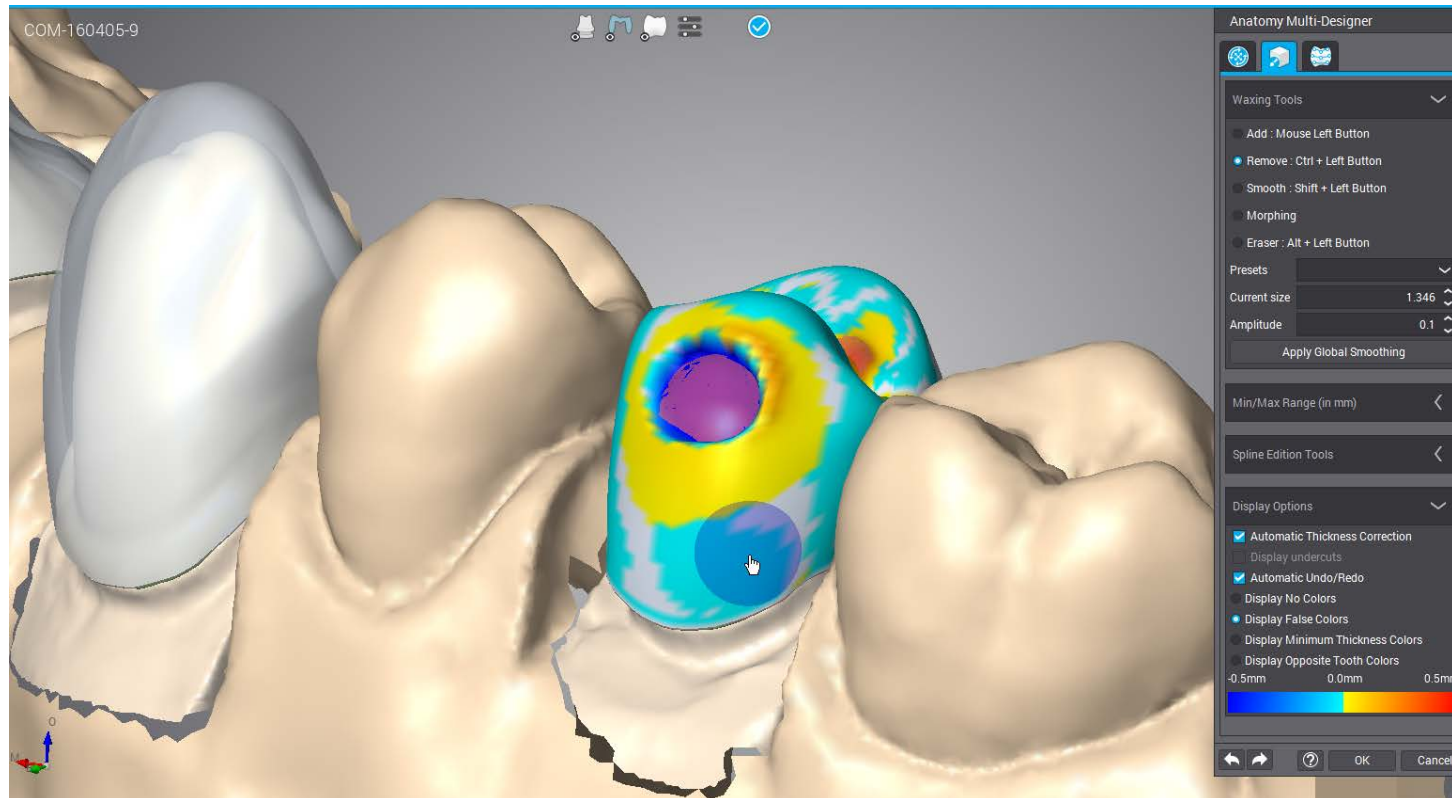
- 5 waxing tools
- Display modifications





CAD 1: ADD/REMOVE MATERIAL

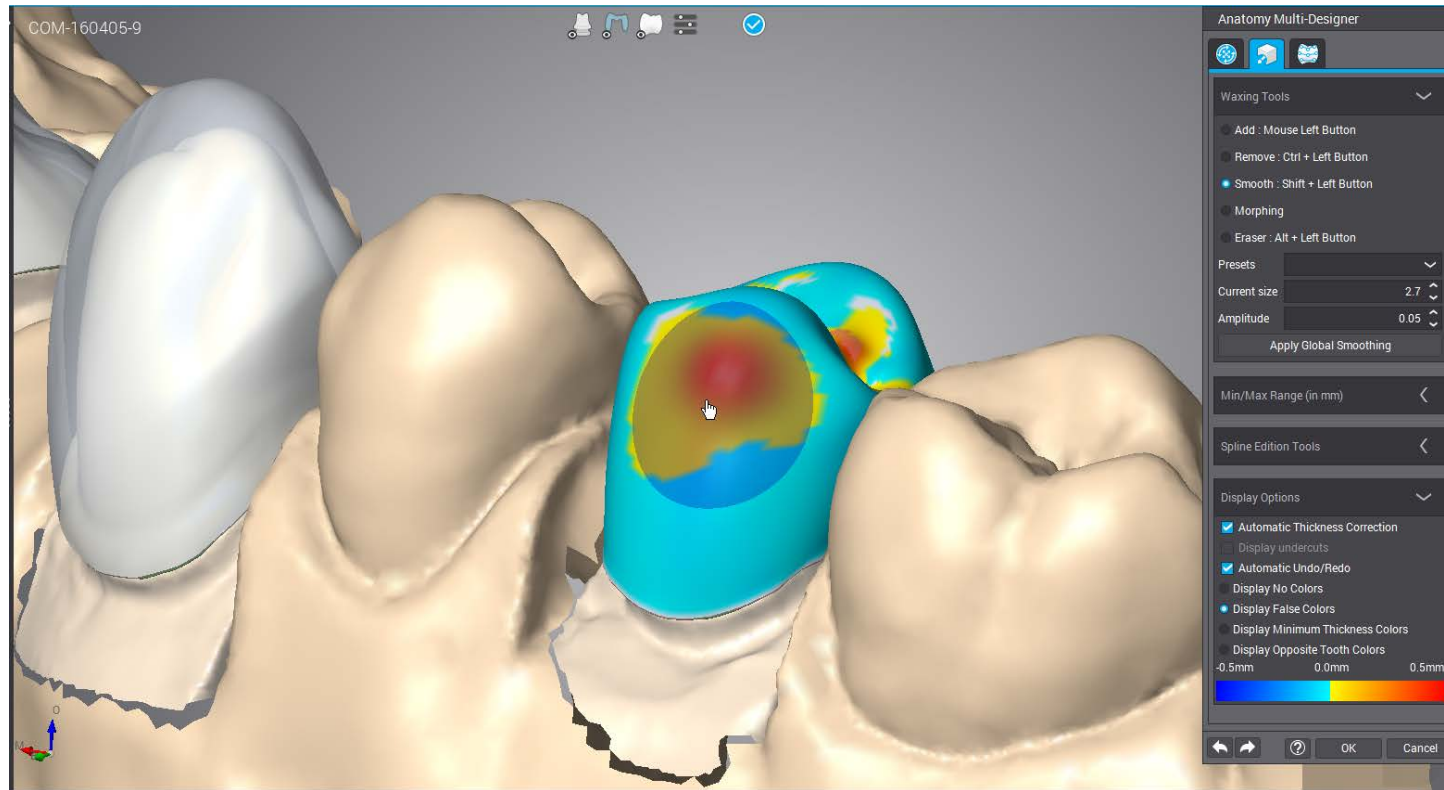
- 5 waxing modes
- Minimal thickness protection





CAD 1: ADD/REMOVE MATERIAL

- 5 waxing modes
- Global smoothing

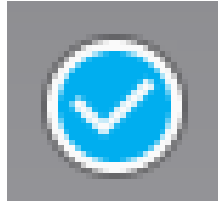




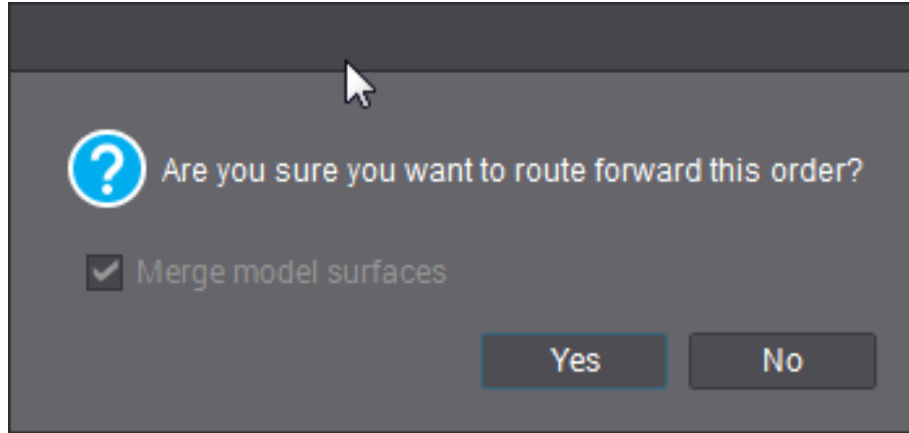
CAD 1: EXIT



- Exit



- Confirmation



If laser sintering will be used select Merge model surface



 dental wings
LUNCH BREAK

ARCH SCAN 2

BRIDGE WITH ADJACENT AND OPPOSING
CHECKBITE





ARCH SCAN 2: SUMMARY



- Order creation: clinical coping + pontic + full crown
- Previews & orientation
- Precise scan
- Margin
- Cleaning checkbite
- Adjusting checkbite position

CAD 2

CAD ON SCAN 2

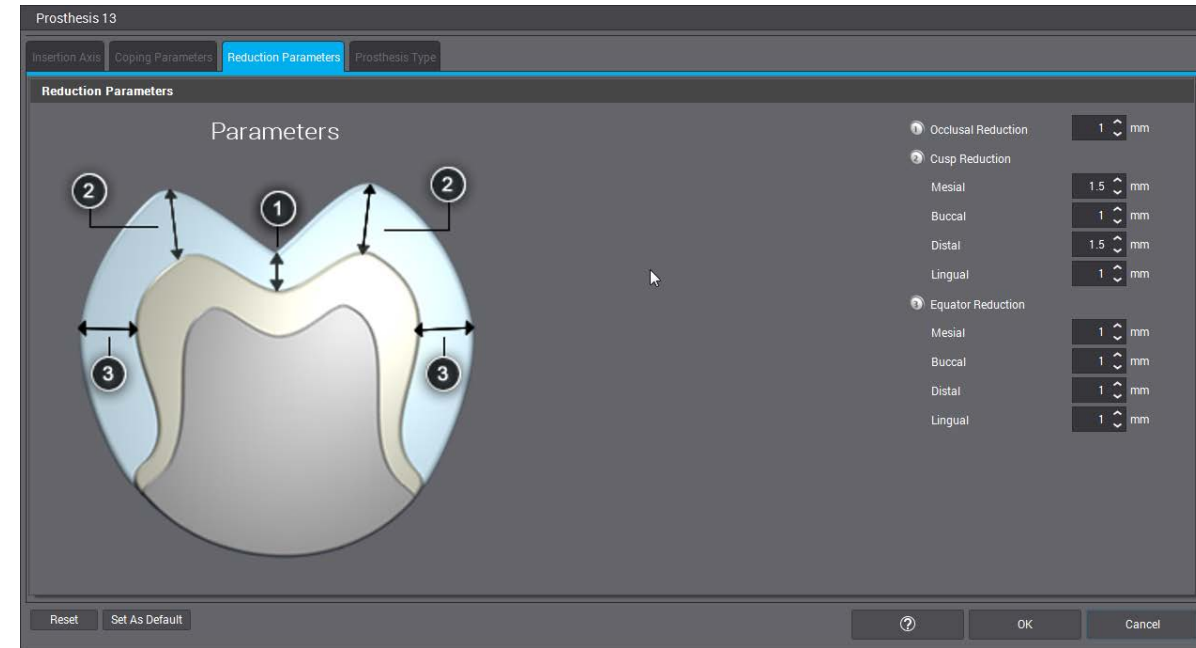
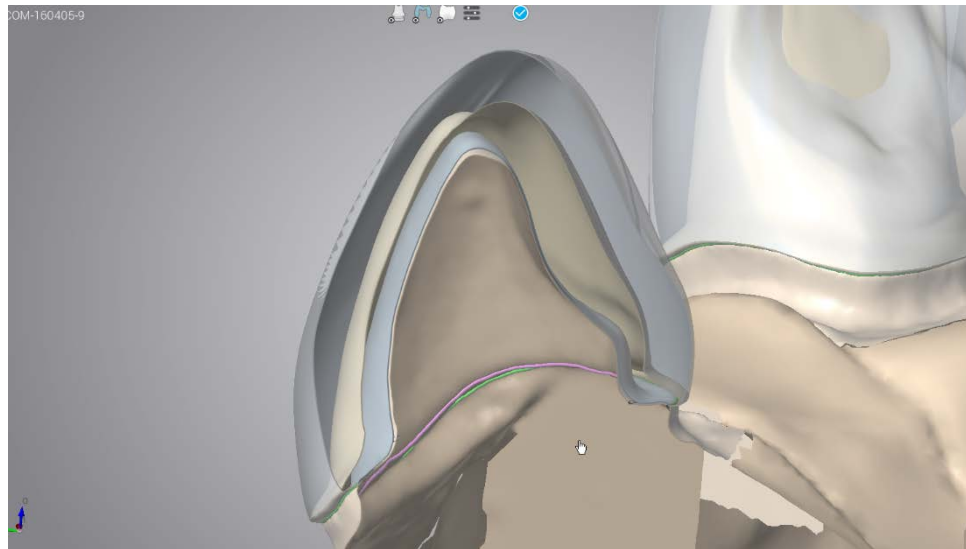




CAD 2: CLINICAL COPING



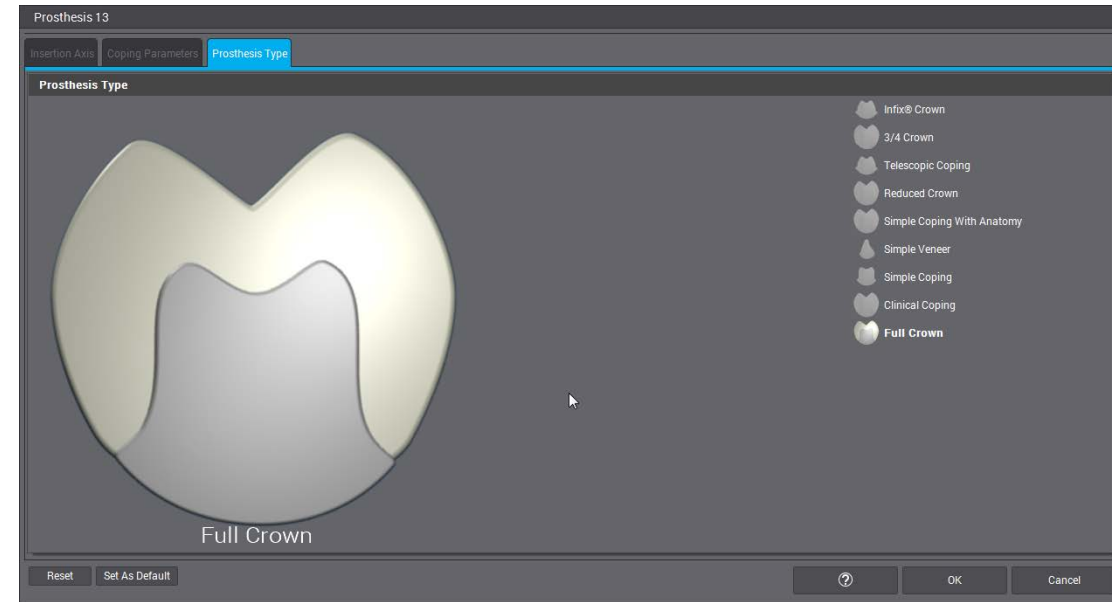
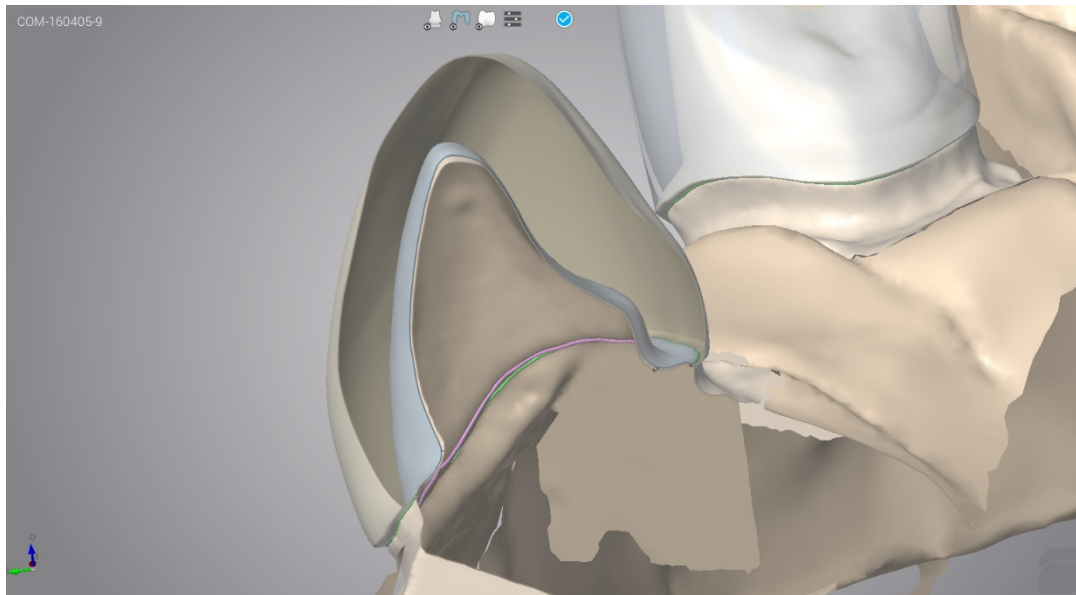
- Homothetic reduction
- Anatomy
- Minimal thickness
- Parameters





CAD 2: FULL CROWN

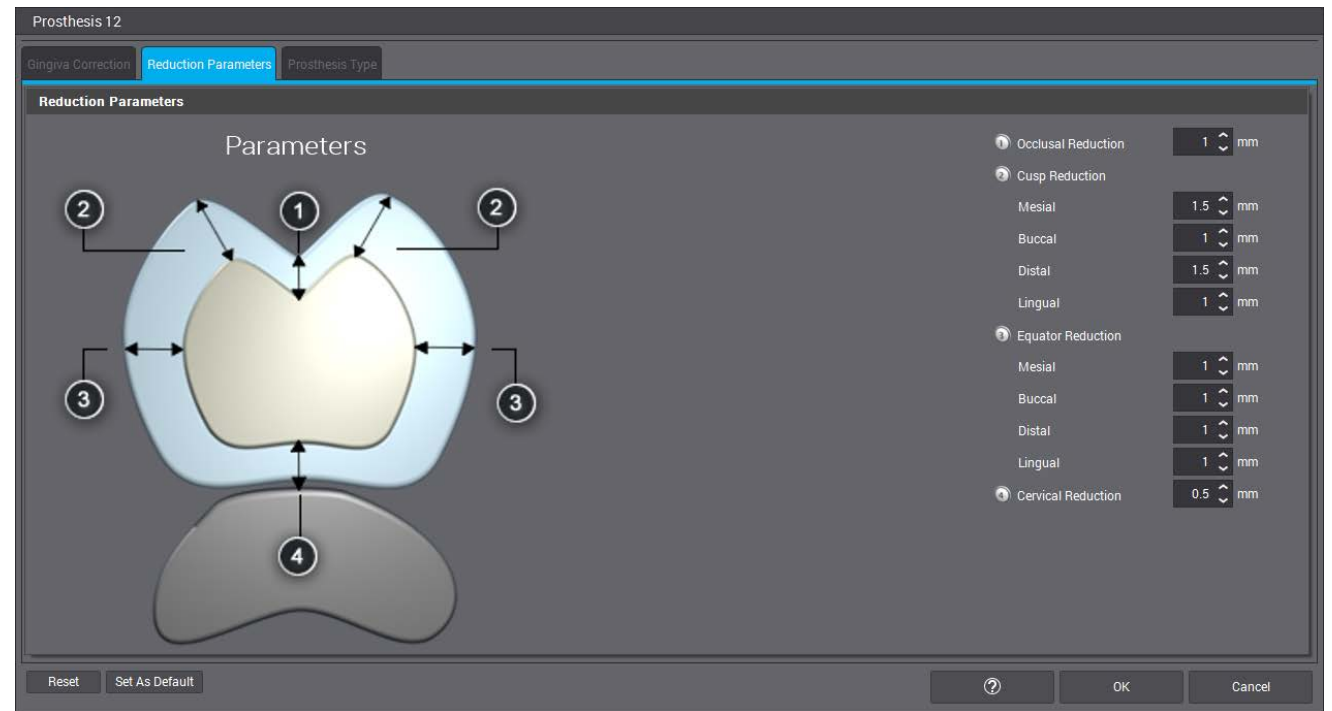
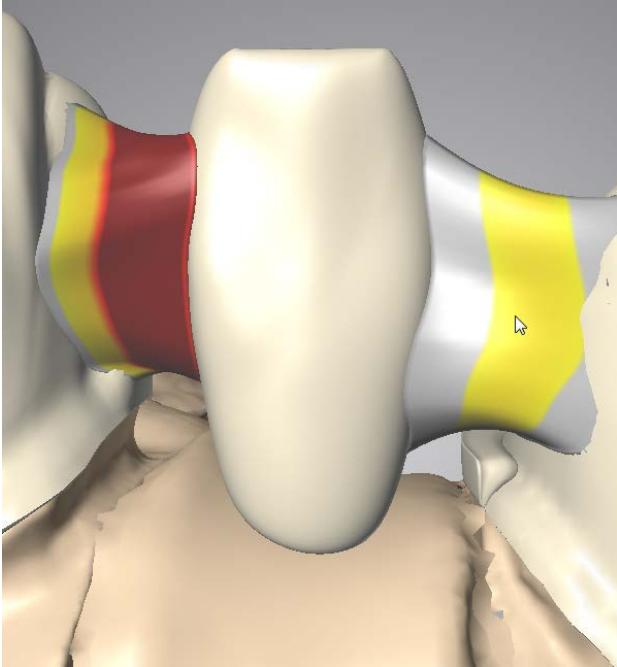
- Full crown
- Duplication of anatomy
- No parameters





CAD 2: PONTIC

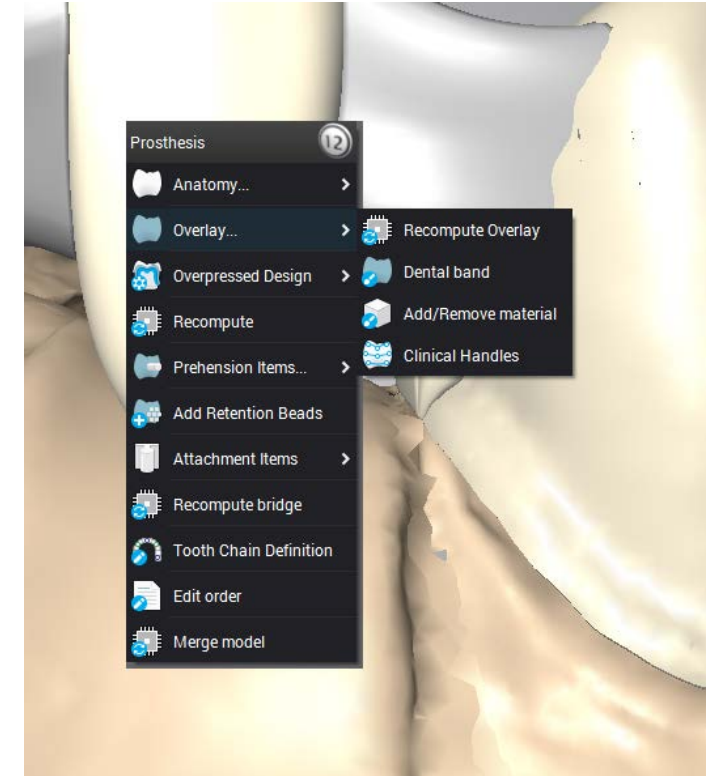
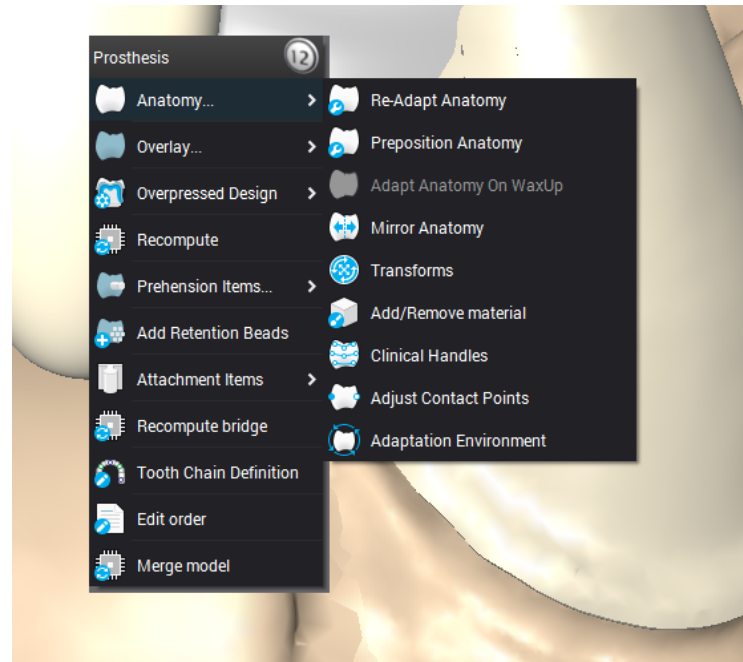
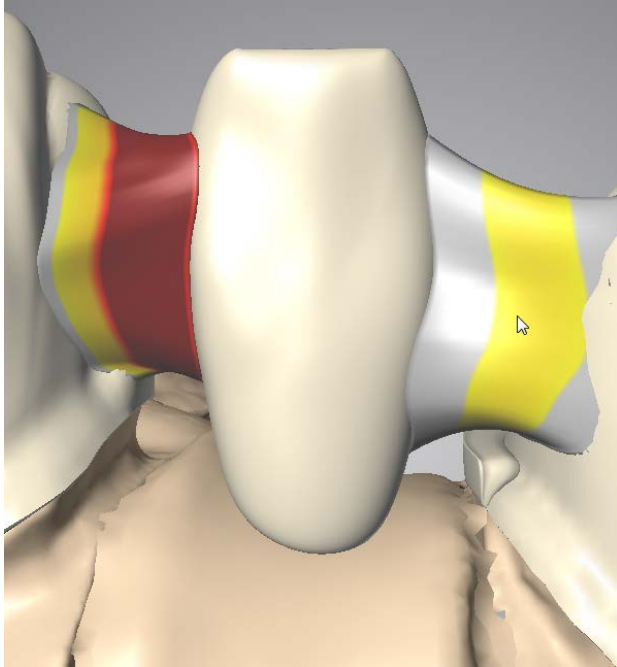
- Full, reduced, advanced or $\frac{3}{4}$
- Shape: conical, sanitary, saddle or modified ridge-lap
- Similar as prosthesis
- Parameters





CAD 2: PONTIC

- Transform
- Handles
- Add/Remove material





CAD 2: REVIEW

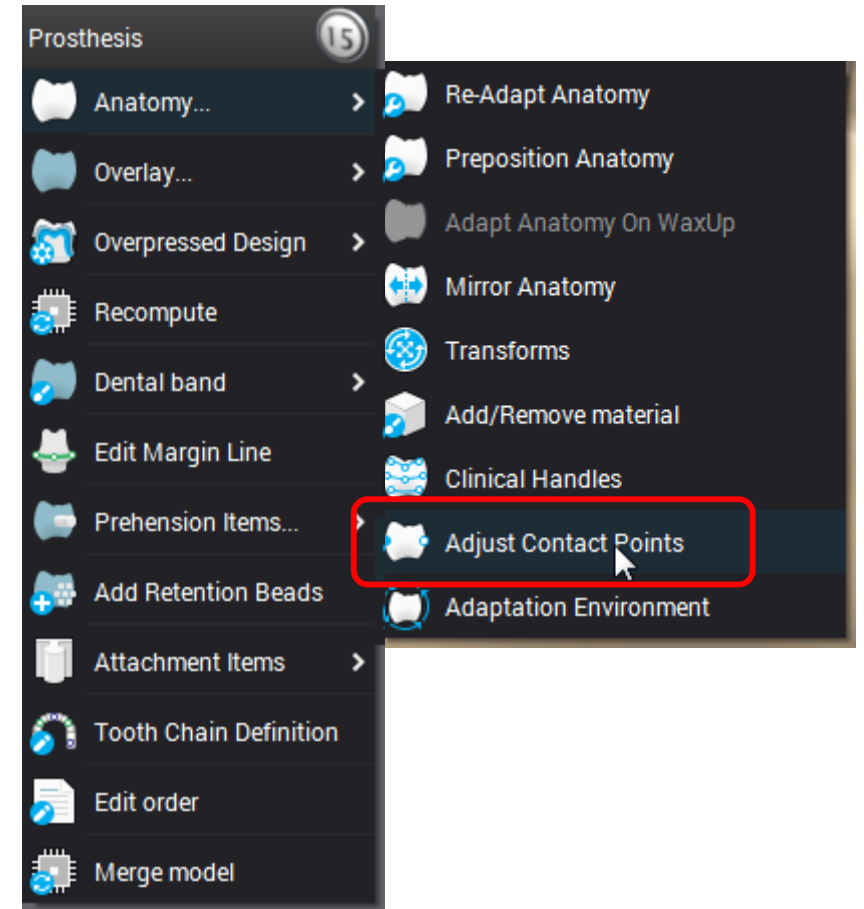
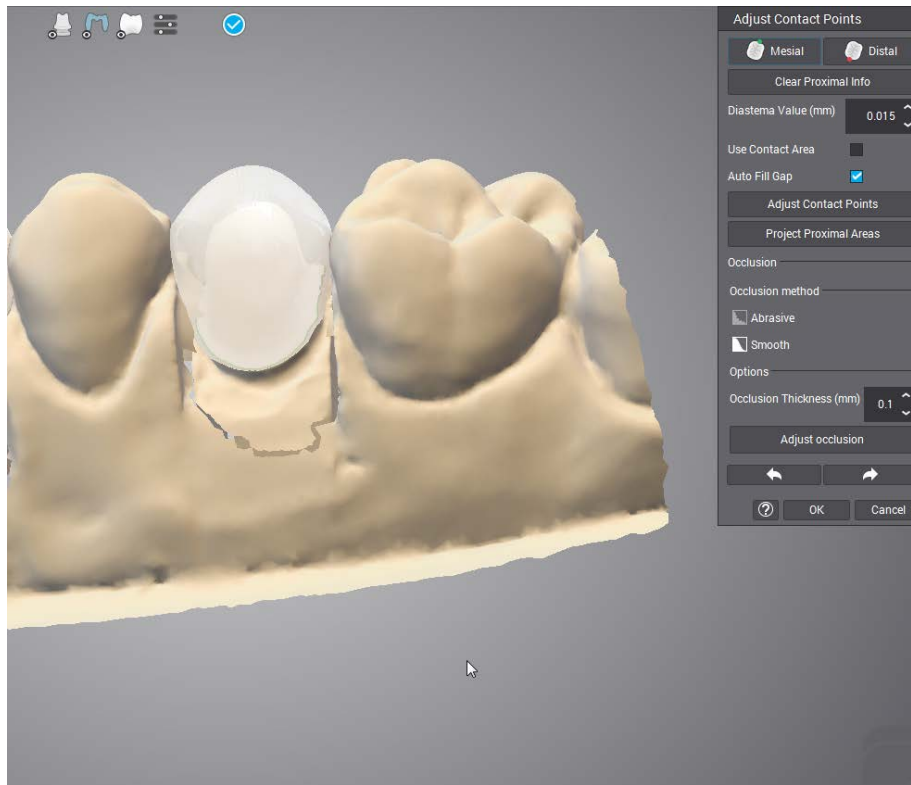


- CAD application
- Transform
- Clinical handles
- Add/Remove material



CAD 2: ADJUST CONTACT POINTS

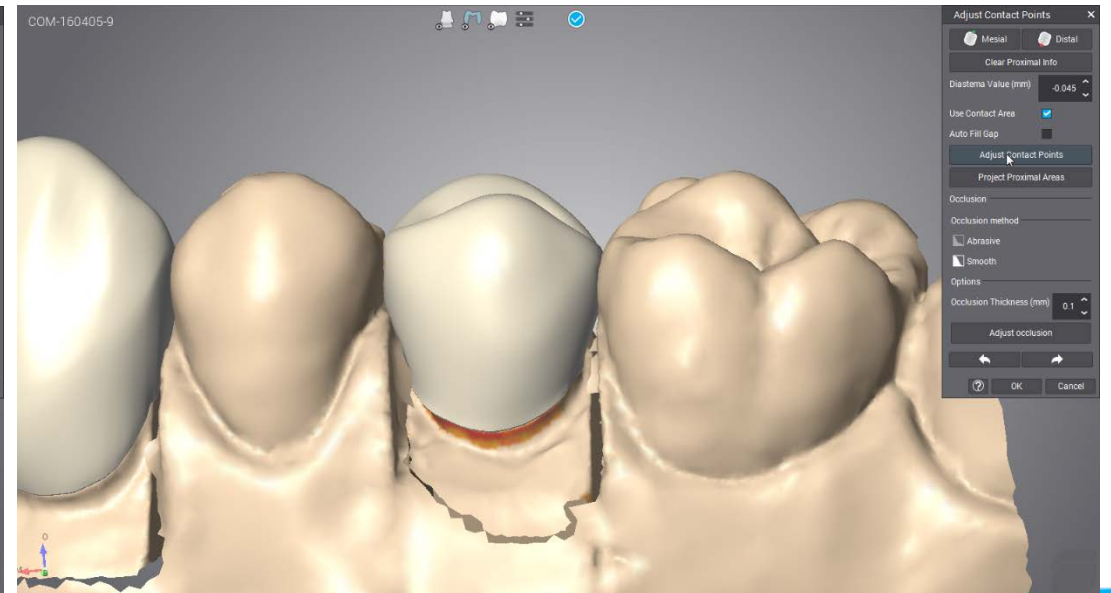
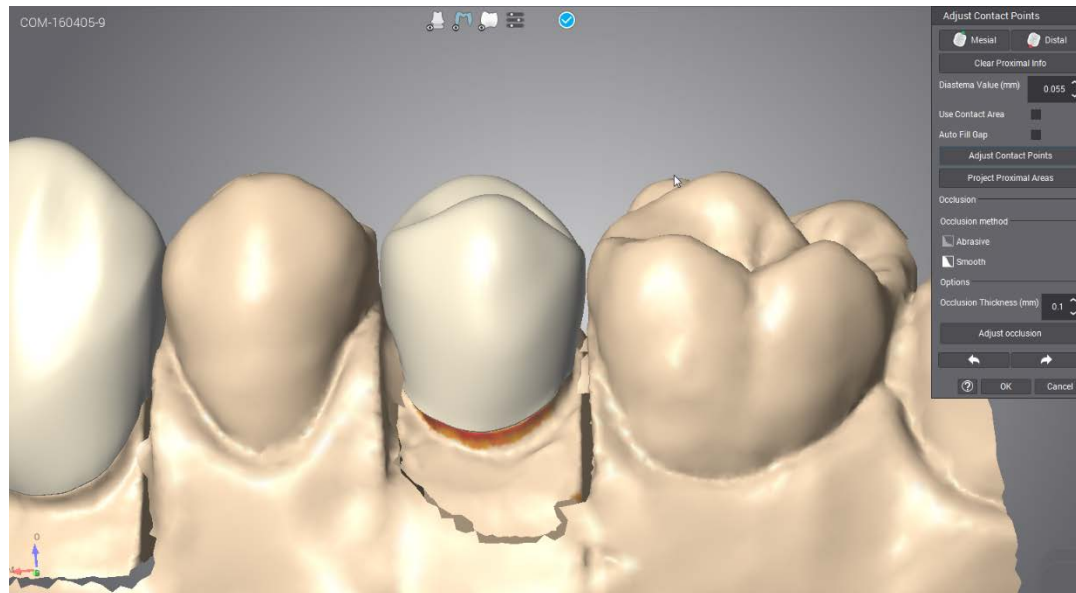
- Anatomy
- Proximal & Occlusion





CAD 2: ADJUST CONTACT POINTS

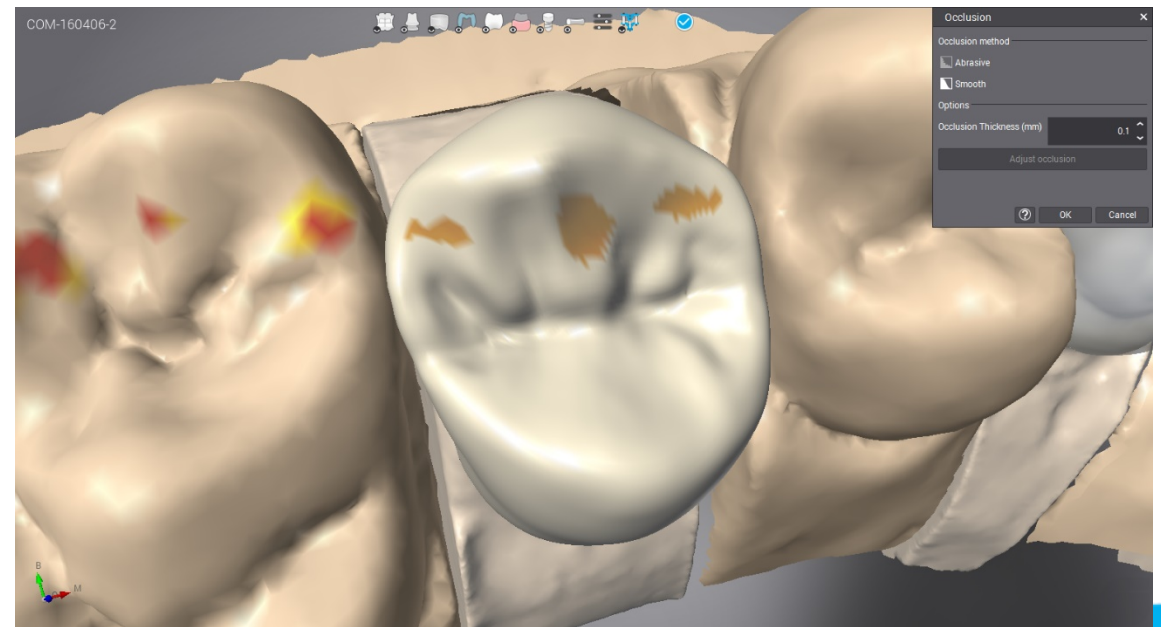
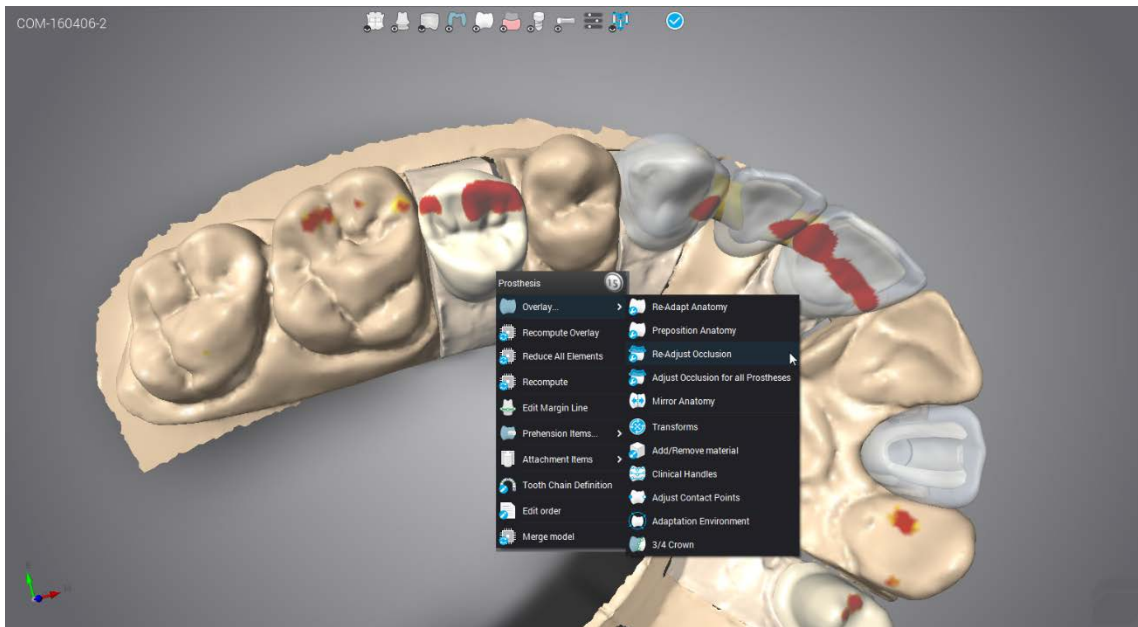
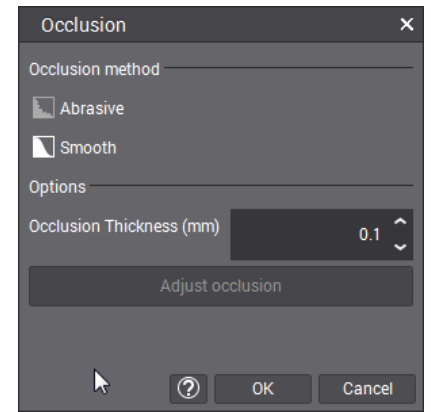
- Proximal
- Diastema





CAD 2: OCCLUSION

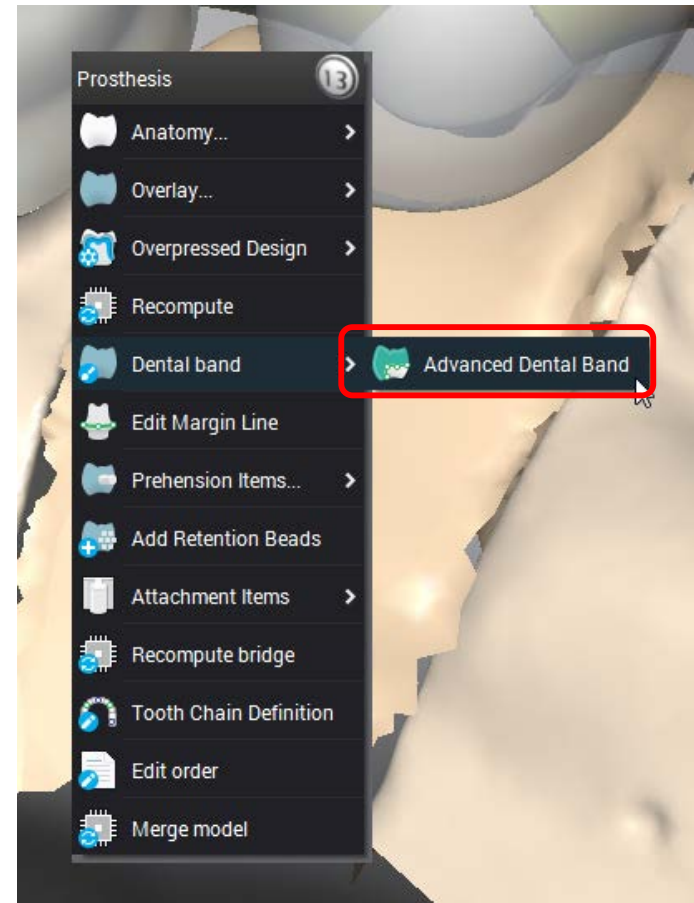
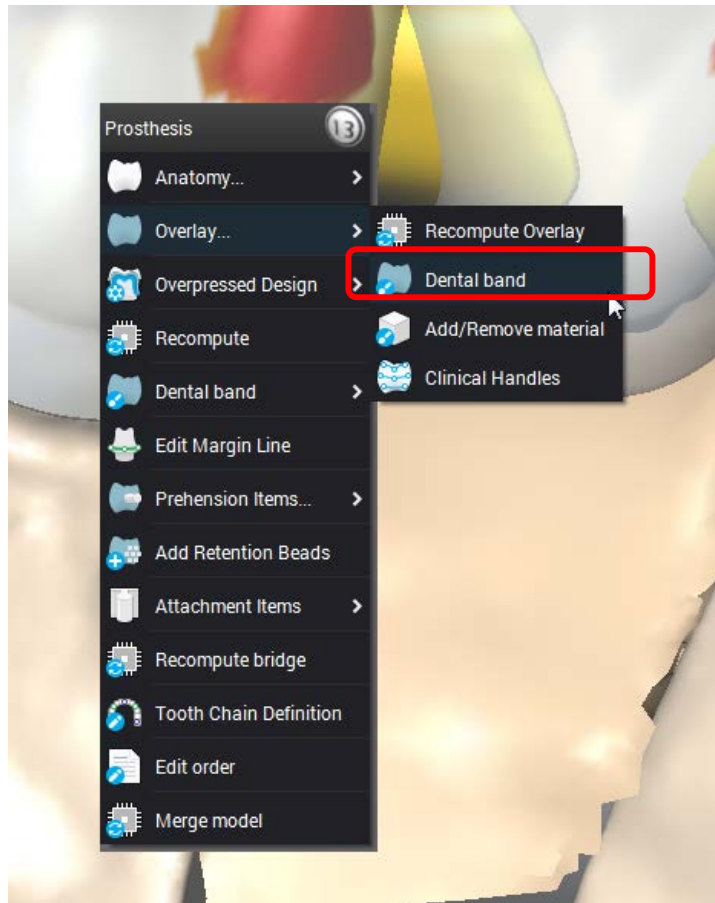
- Two ways
- Interference colors
- Reduce contacts





CAD 2: DENTAL BAND

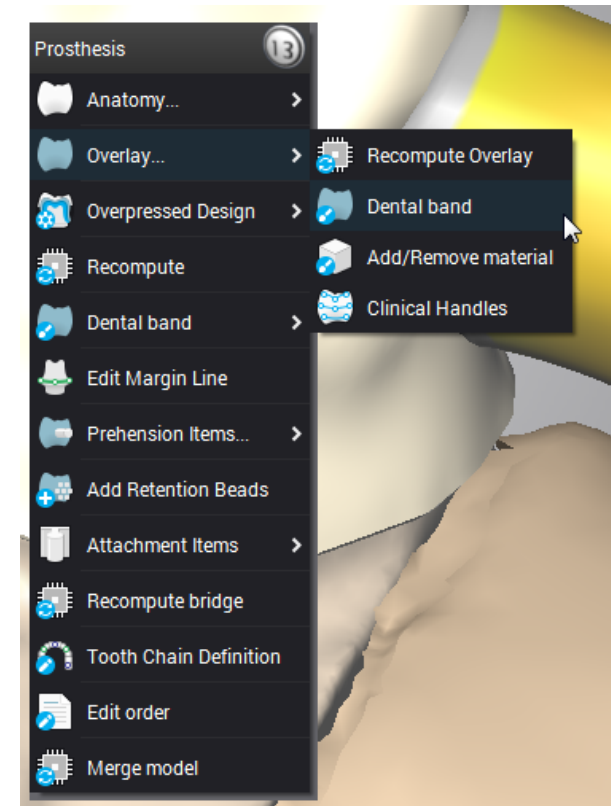
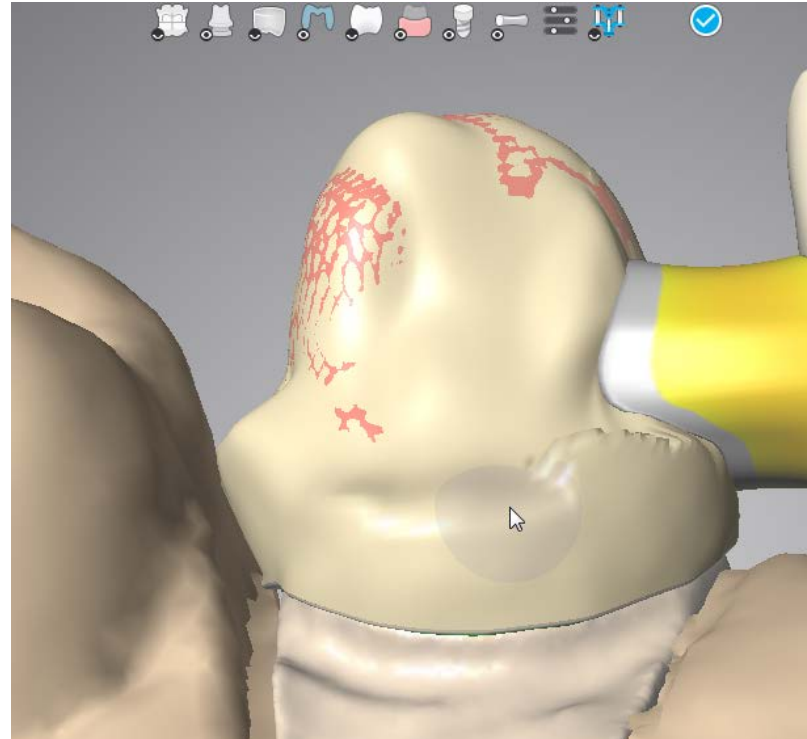
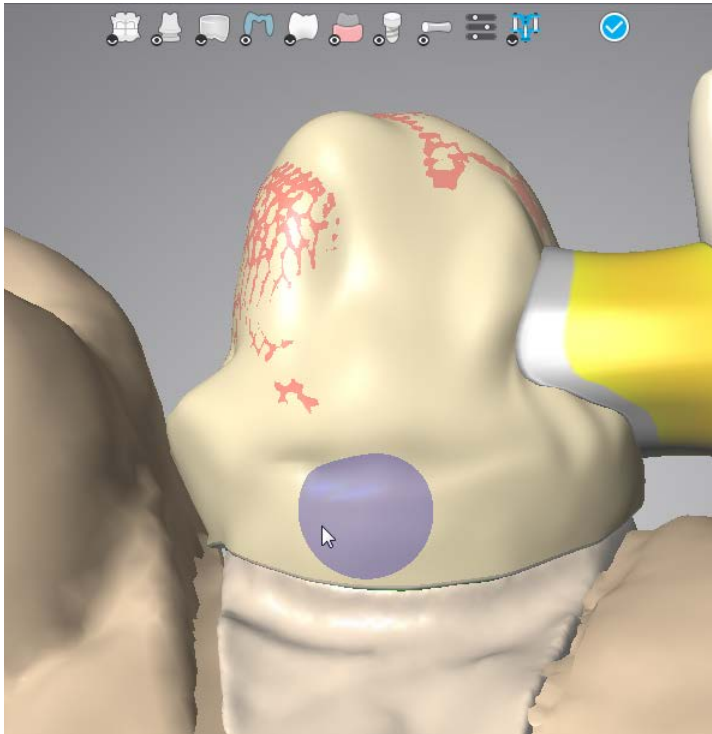
- Two ways





CAD 2: DENTAL BAND

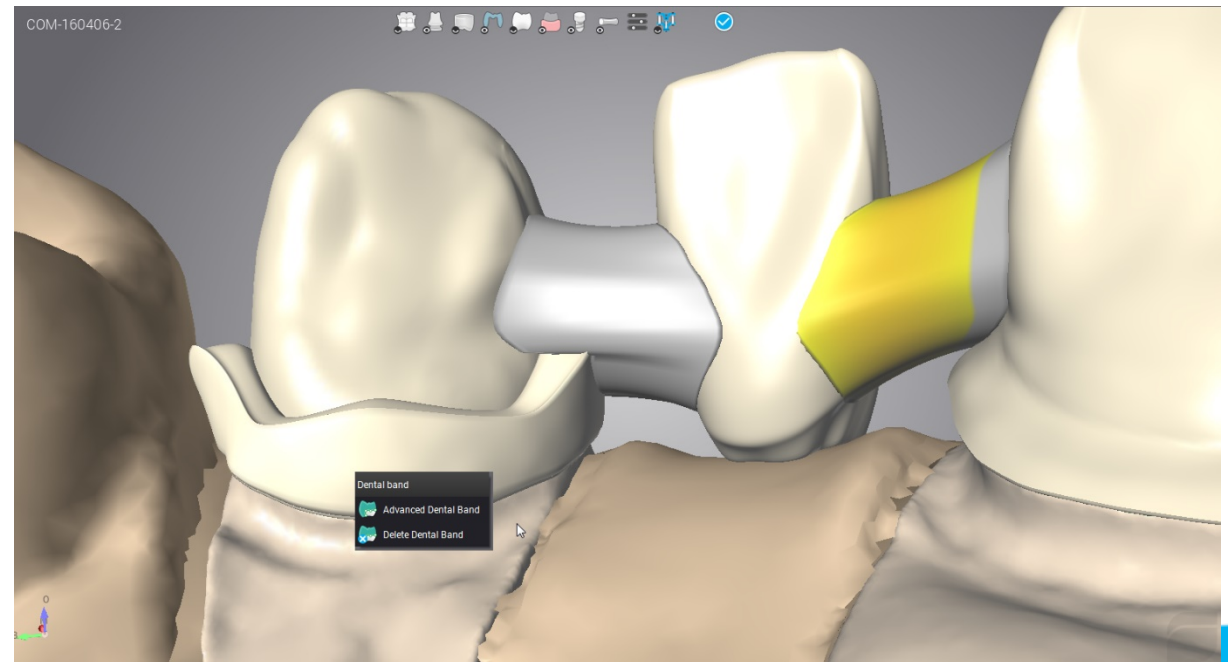
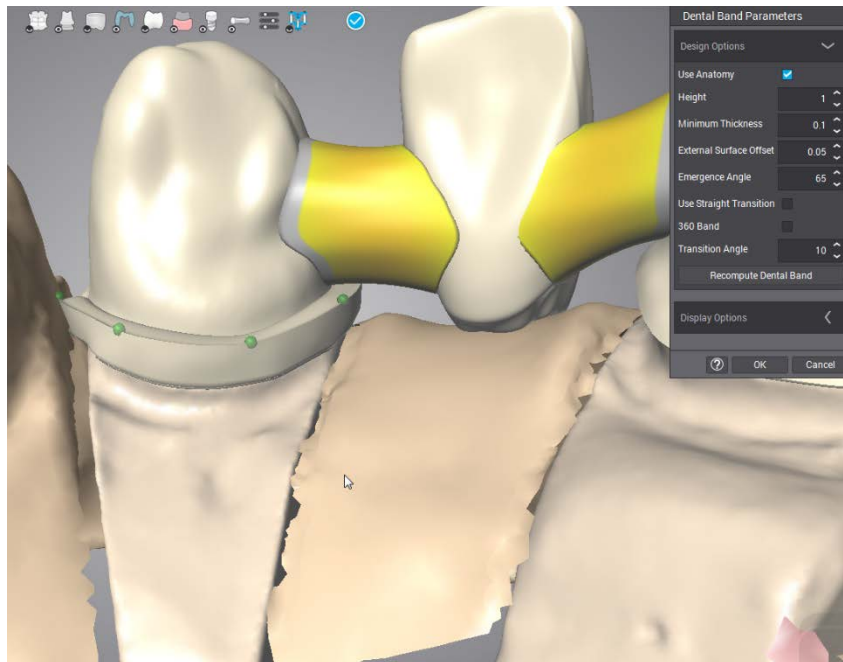
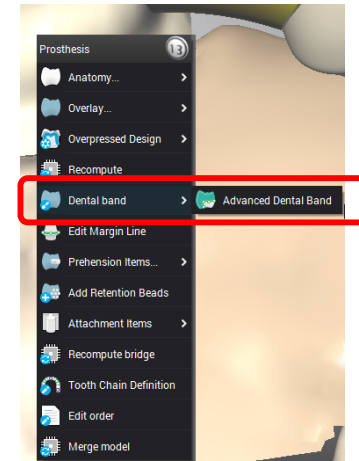
- Similar Add/Remove
- Minimal thickness
- ALT key





CAD 2: DENTAL BAND

- Advanced
- Line editing
- Parameters adjustment



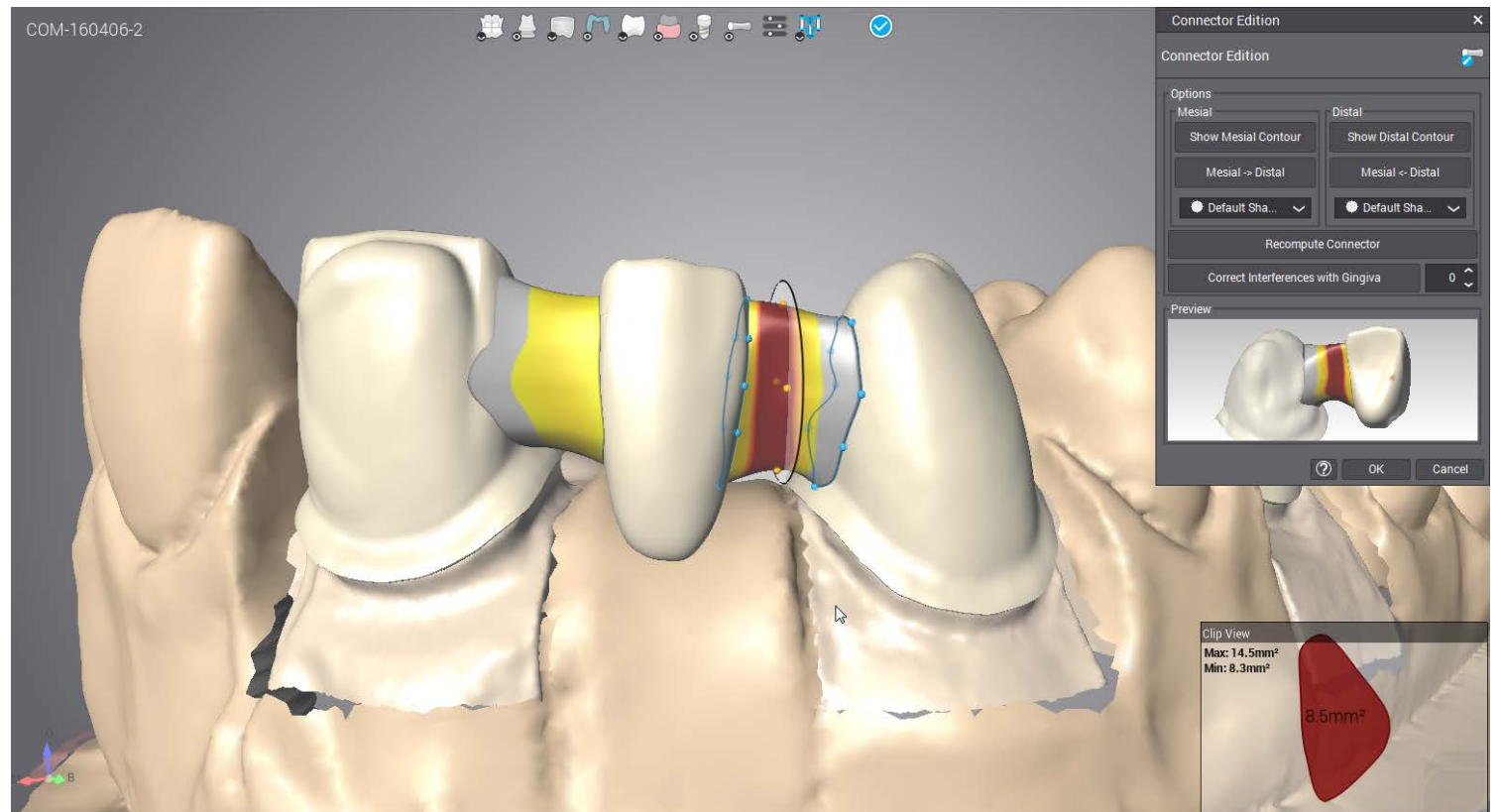


CAD 2: CONNECTOR

- Color information
- Local menu
- Edition



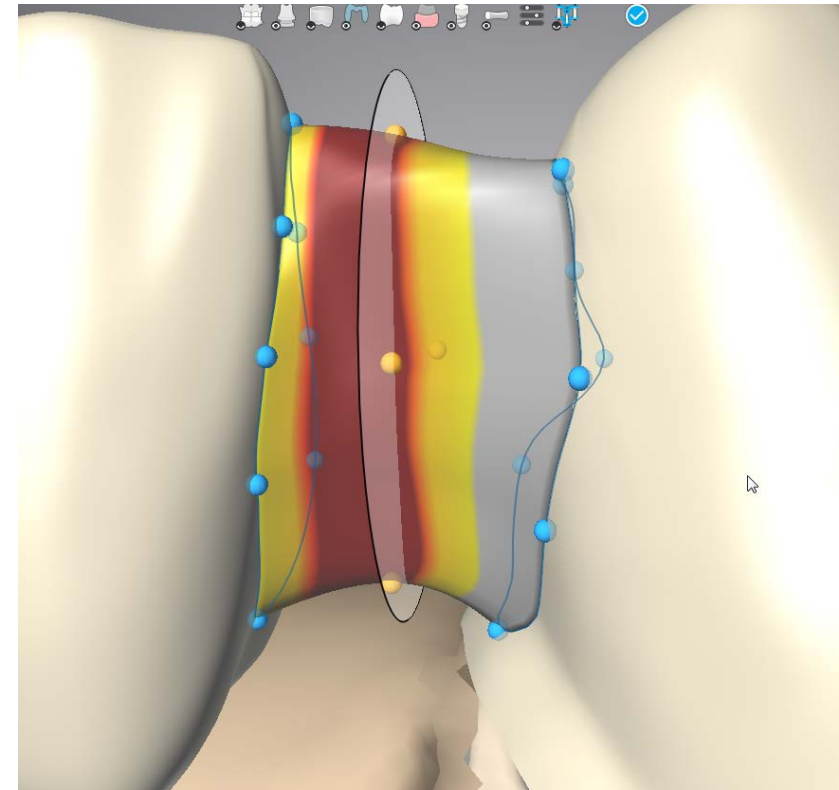
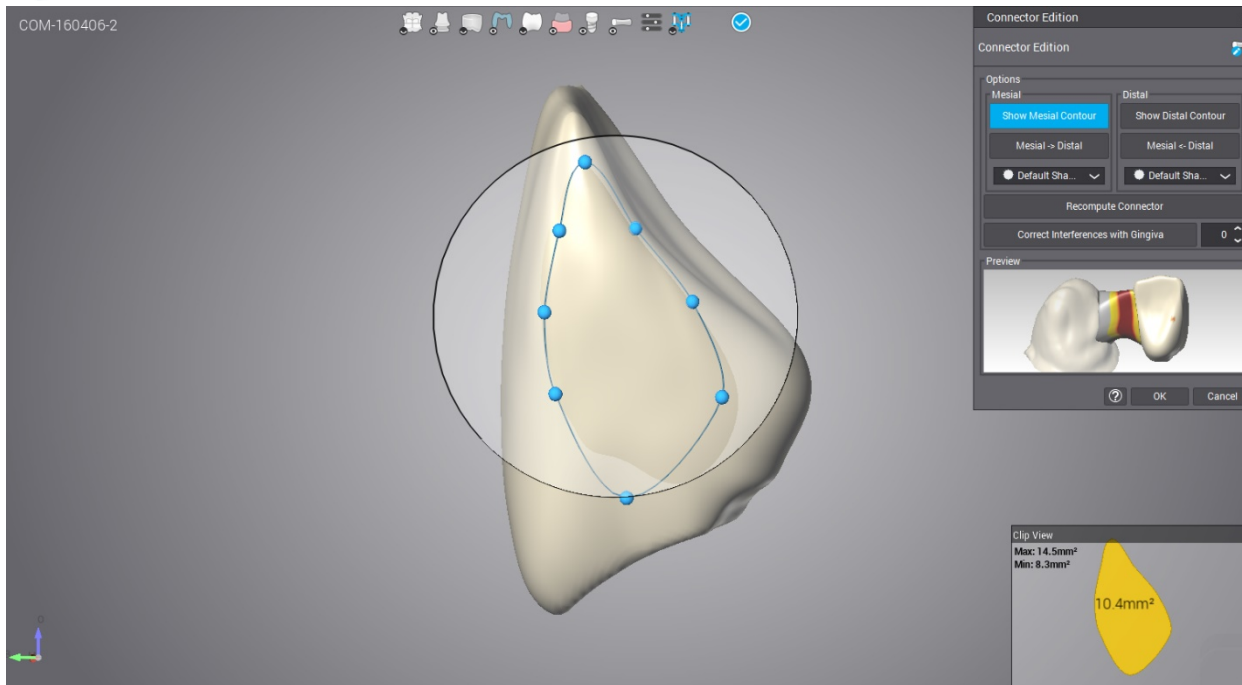
You are responsible for the connector design according to material, position of the bridge (front, posterior) and its span





CAD 2: CONNECTOR

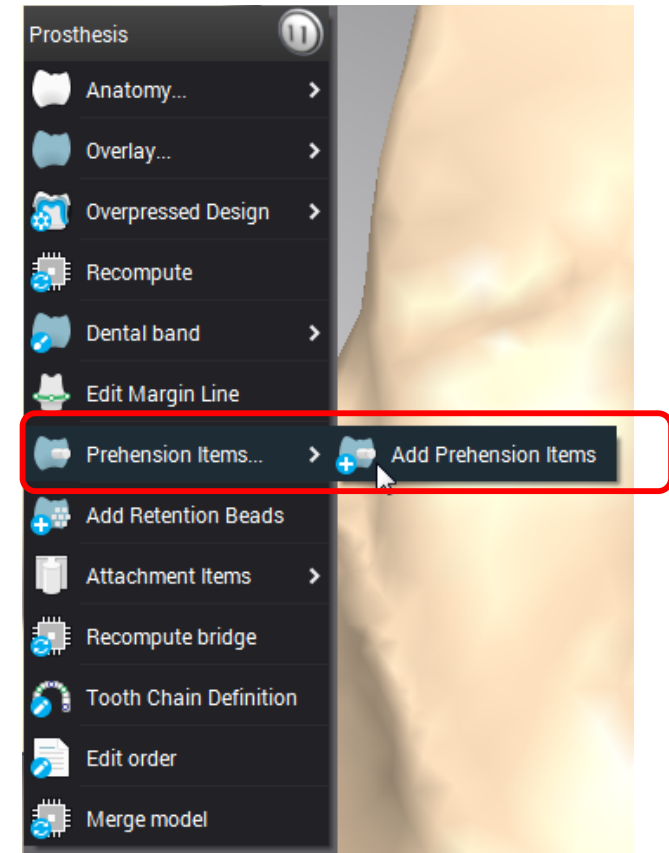
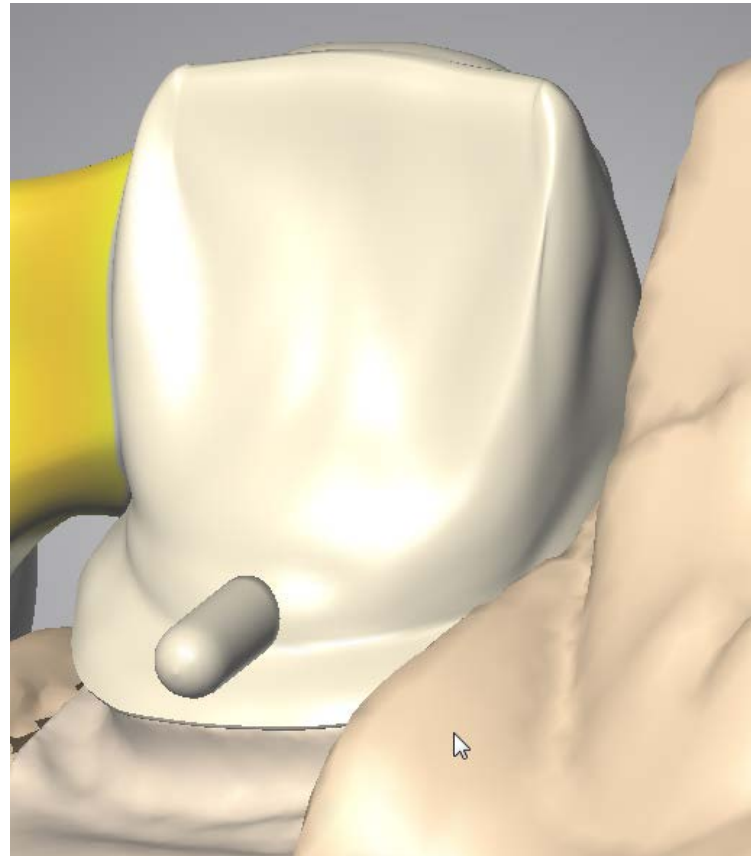
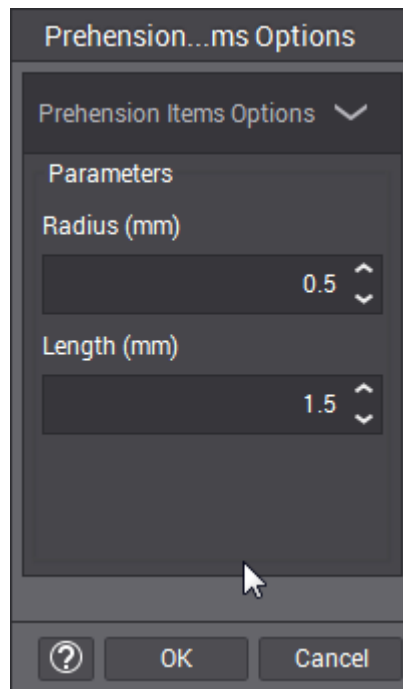
- Drag handles
- mouse wheel & left click
- Drag handles & CTRL





CAD 2: PREHENSION ITEM

- Overlay
- Parameters
- Position



ARCH SCAN 3

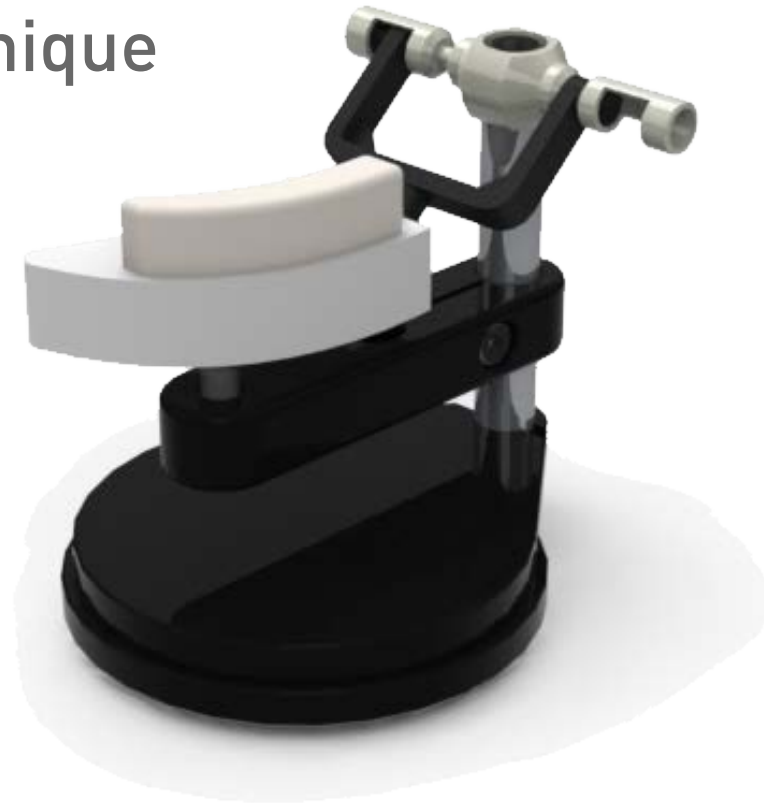
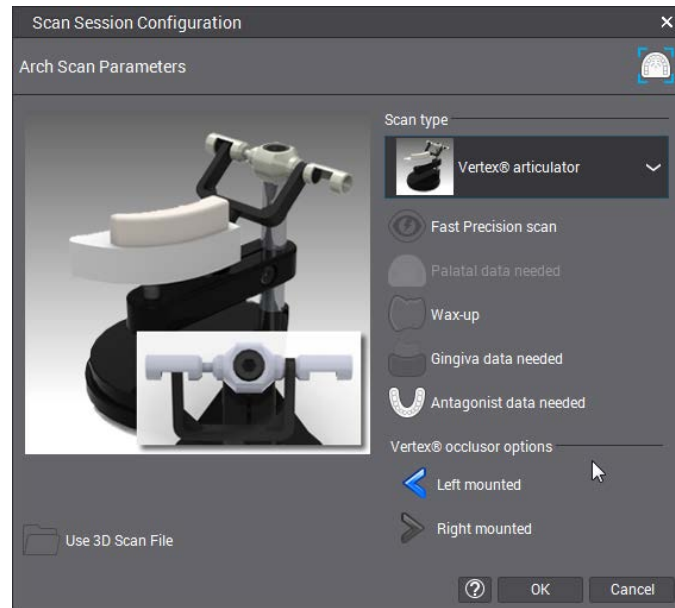
SINGLE ELEMENT ON VERTEX HOLDER





ARCH SCAN 3: VERTEX HOLDER

- Order creation: simple copin with anatomy
- Specific holder
- Axis-finder patented technique
- First assistant selection





ARCH SCAN 3: SUMMARY



- Preview & Orientation
- Precise scan
- Margin
- Cleaning checkbite
- Adjusting checkbite position



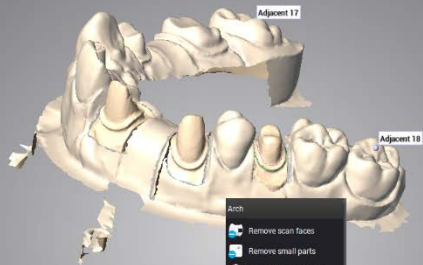
ARCH SCAN 3: EXPORT SCAN

- STL file
- Accessible on all scanned elements
- Specify path

Options

- Include Anatomies
- Include Manufacturing
- Include Antagonist
- Include Scan Data

Arch Scanning (COM-160404-2)



- Arch
- Remove scan faces
- Remove small parts
- Add/Remove material
- Rescan specific area
- Show/Hide Repositioning
- Invert normals
- Show/Hide holes
- Fill holes
- Export scan...**

The screenshot shows the DWOS Client software interface. At the top, there's a navigation bar with tabs for 'Order Creation', 'Arch Scan', 'CAD Status', and 'Order Management'. Below this is a table with columns for 'Orders', 'Status', 'Customer', 'Patient', 'Product', 'Implant...', 'Scan System', 'Prosthesis Type', 'Operation', 'Tooth', 'Due Date', 'Approval Status', and 'Creation Date'. The table contains several rows of order data. Below the table, there's a 3D model of a dental arch, and a 'Comments' section with 'No comment' and a 'Files' section.

Orders	Status	Customer	Patient	Product	Implant...	Scan System	Prosthesis Type	Operation	Tooth	Due Date	Approval Status	Creation Date
COM-160404-2		Dr David Smith	John Davis	DWOS Ceramic	Various...	Stener	Reduced Crown on...	Cad completion	22			4/6/16 4:53 AM
				DWOS Ceramic			Bridge	Cad completion	24, 25, 26			4/6/16 4:53 AM
				DWOS Ceramic			Bridge	Cad completion	13, 12, 11			4/6/16 4:53 AM
				DWOS Ceramic			Full Crown	Cad completion	15			4/6/16 4:53 AM
		Dr David Smith	John Davis	DWOS Ceramic	Various...	2Series+	Reduced Crown on...	Cad completion	22			4/6/16 3:58 AM
				DWOS Ceramic			Bridge	Cad completion	24, 25, 26			4/6/16 4:00 AM
				DWOS Ceramic			Bridge	Cad completion	13, 12, 11			4/6/16 4:00 AM
				DWOS Ceramic			Full Crown	Cad completion	15			4/6/16 4:00 AM



 dental wings

PAUSE

Back in 10 minutes

ARCH SCAN 4

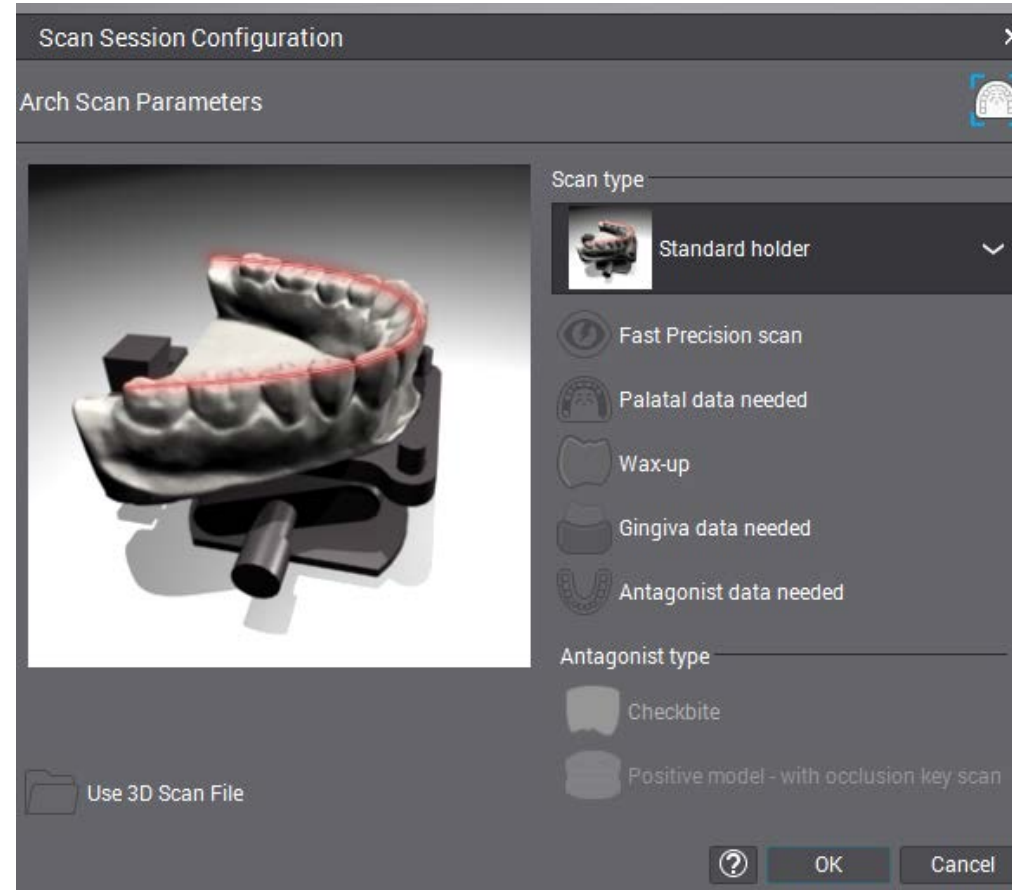
SCAN WITH ANTAGONIST POSITIVE
MODEL





ARCH SCAN 4: START

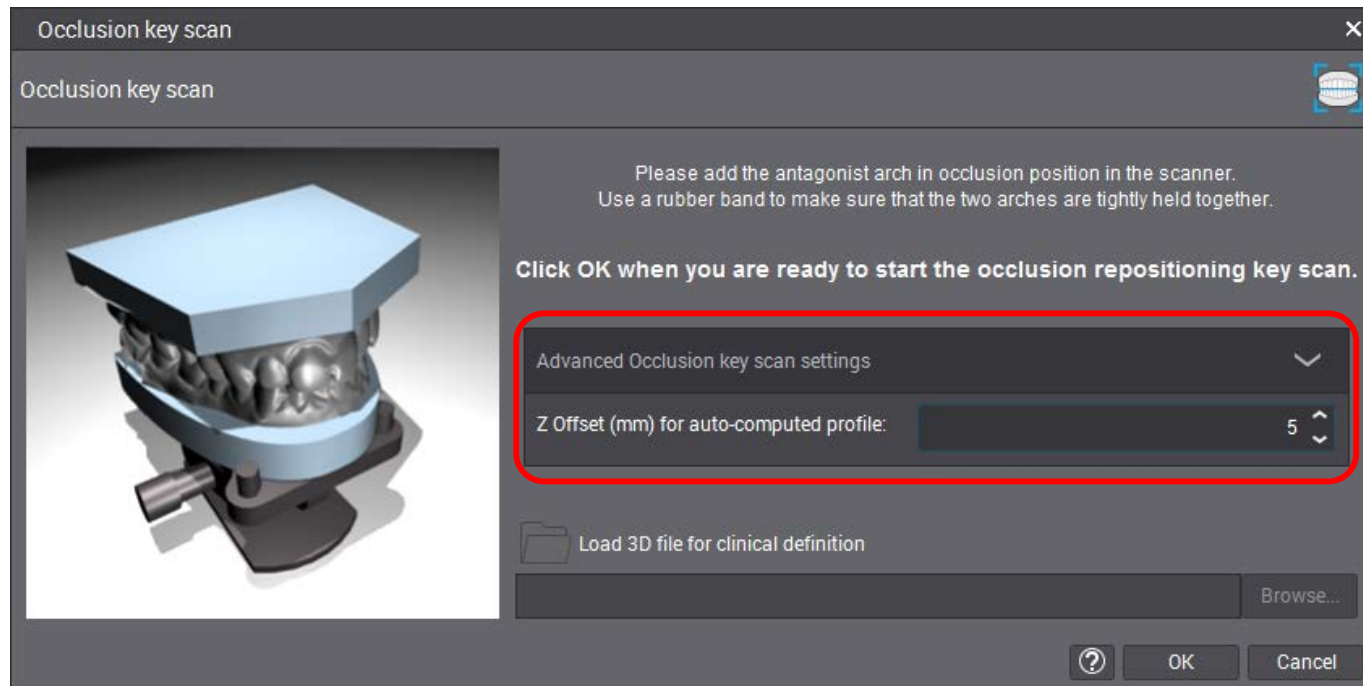
- Standard holder
- First assistant selection
- As usual





ARCH SCAN 4: OCCLUSION KEY

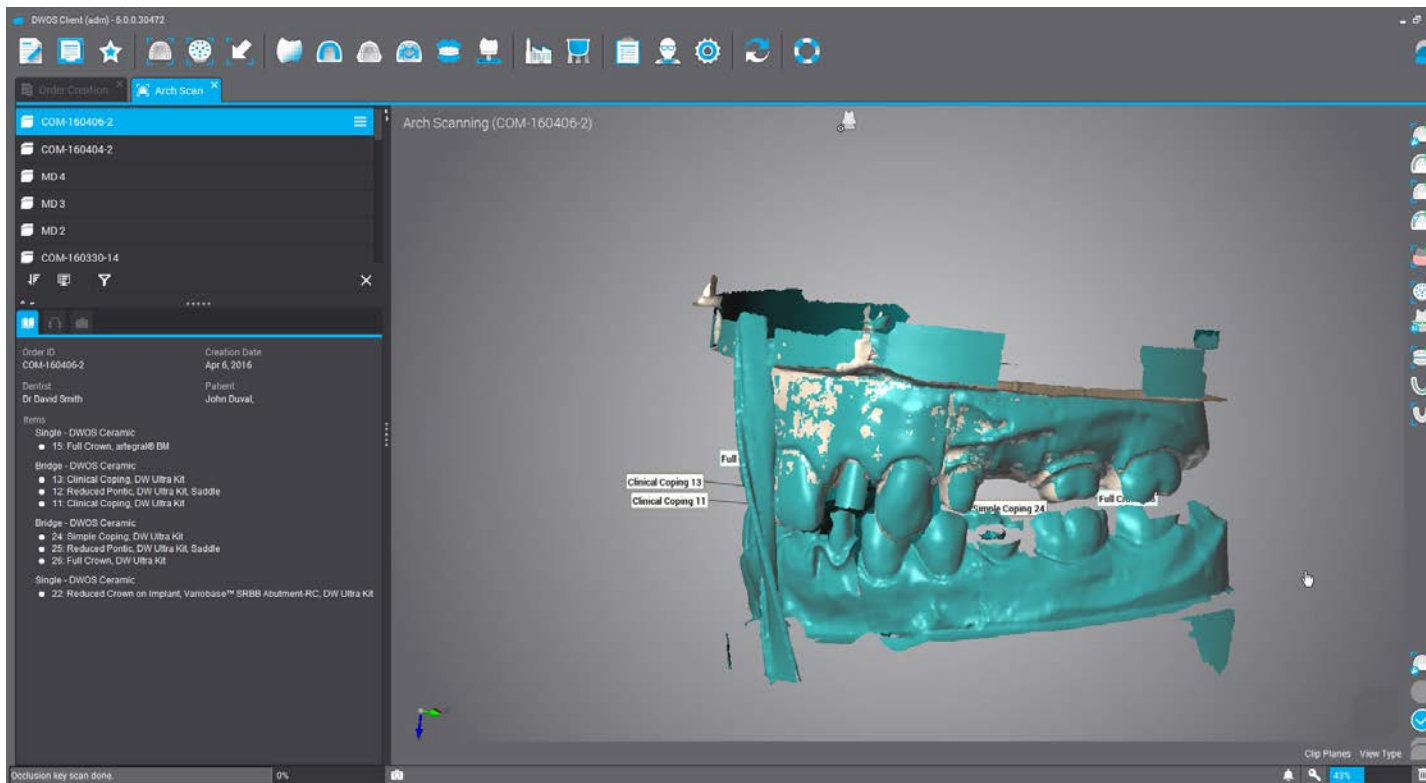
- Install antagonist model
- Rubber Band
- Set Z offset if needed





ARCH SCAN 4: OCCLUSION KEY

- Display
- Request antagonist or edit margin





ARCH SCAN 4: DISPLAY

- Visibility button



Order ID: COM-160406-2
Creation Date: Apr 6, 2016
Dentist: Dr David Smith
Patient: John Duval

Items:

- Single - DWOS Ceramic
 - 15: Full Crown, artegra® EM
- Bridge - DWOS Ceramic
 - 13: Clinical Coping, DW Ultra Kit
 - 12: Reduced Pontic, DW Ultra Kit, Saddle
 - 11: Clinical Coping, DW Ultra Kit
- Bridge - DWOS Ceramic
 - 24: Simple Coping, DW Ultra Kit
 - 25: Reduced Pontic, DW Ultra Kit, Saddle
 - 26: Full Crown, DW Ultra Kit
- Single - DWOS Ceramic
 - 22: Reduced Crown on Implant, Varibase™ SRBB A

Generating arch... 35%

Notifications Center

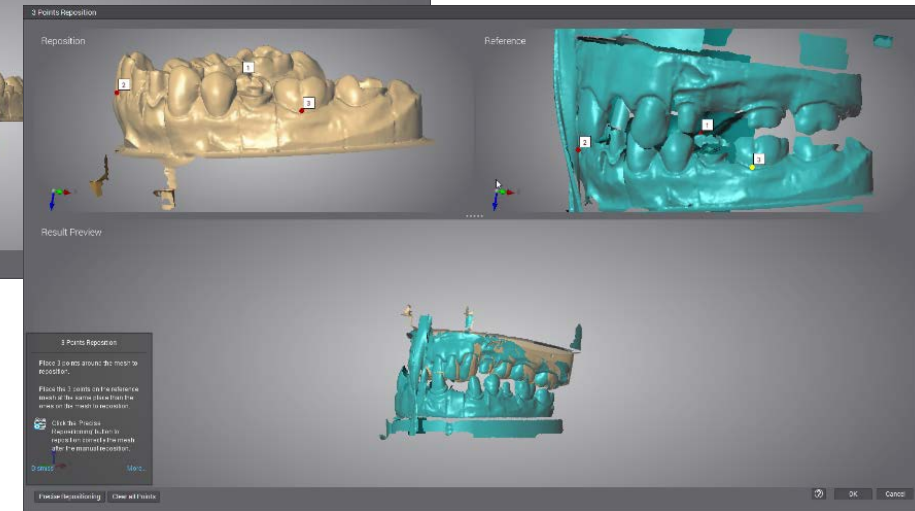
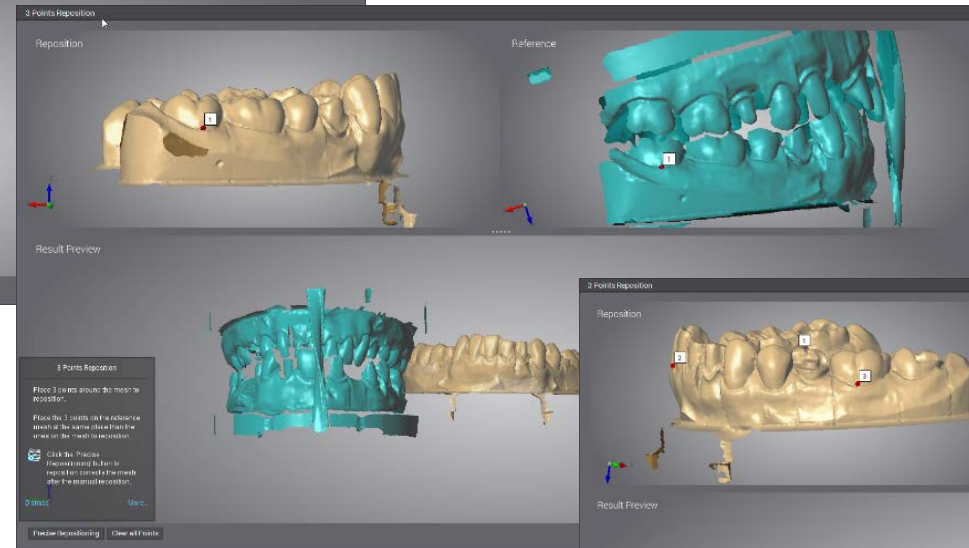
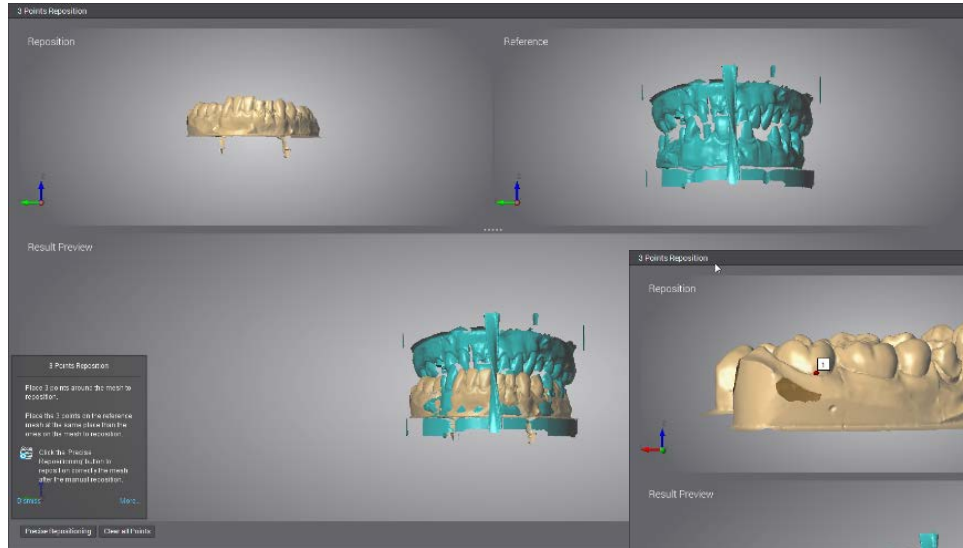
Notification	Time
Taking Screenshot COM-160406-2	2016-04-06 04:28
Taking Screenshot COM-160406-2	2016-04-06 04:27
Computing prosthesis 22	2016-04-06 04:26
Computing prosthesis 24, 25, 26	2016-04-06 04:26
Computing prosthesis 13, 12, 11	2016-04-06 04:25
Computing prosthesis 15	2016-04-06 04:25

- Model scan
- Antagonist scan
- Gingiva Scan
- Interference colors



ARCH SCAN 4: REPOSITION OCCLUSION KEY

- Local menu





ARCH SCAN 4: OCCLUSION KEY

- Any active icon is available to the End user to repeat a step if desired



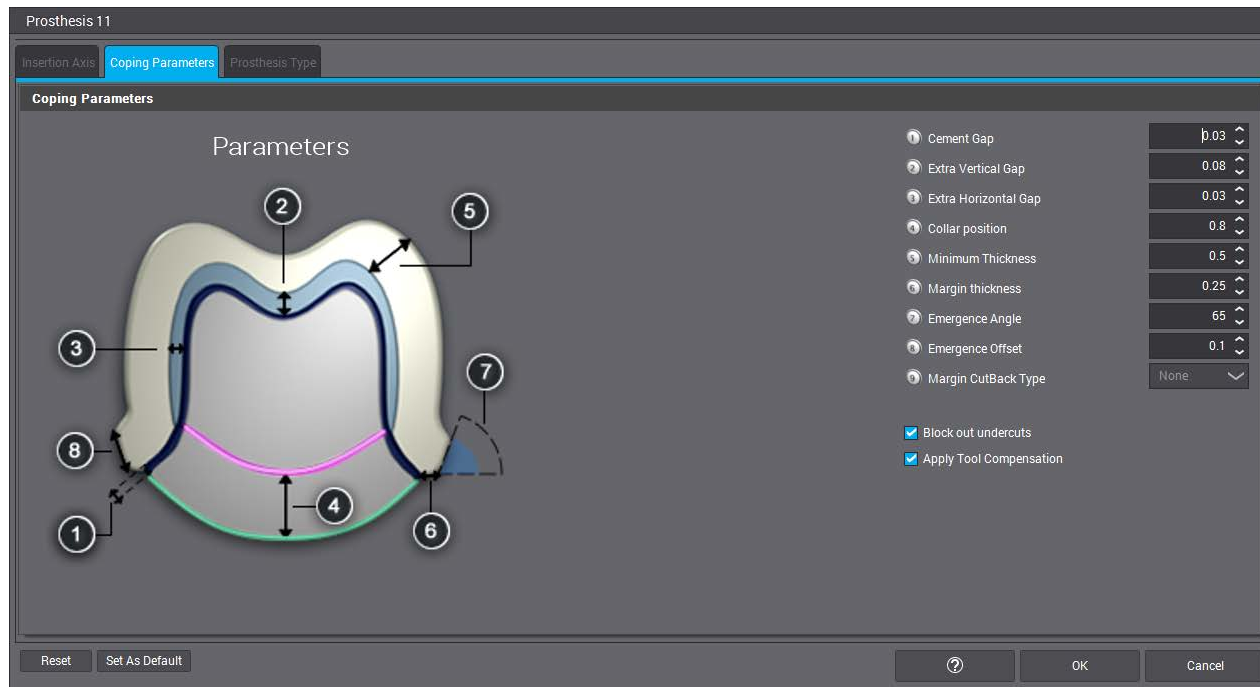
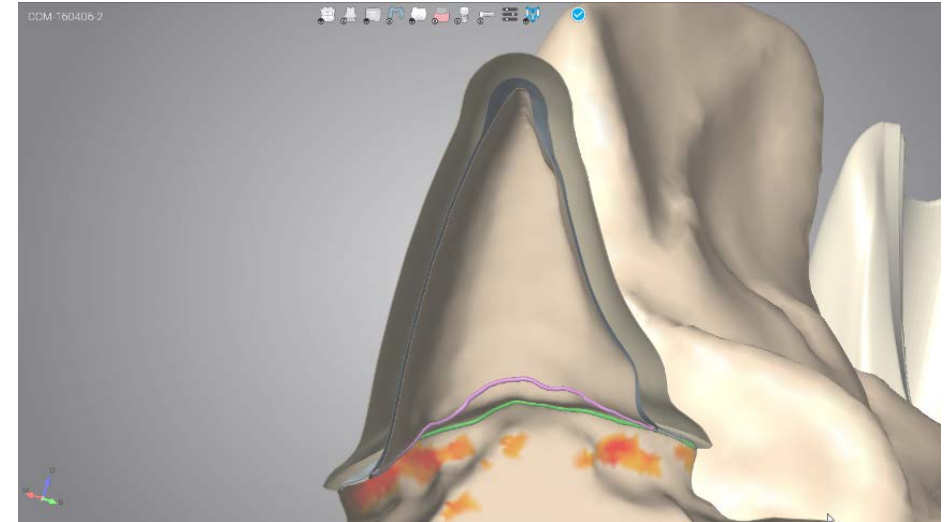
TYPES OF PROSTHESES AND PARAMETERS





CAD: SIMPLE COPING

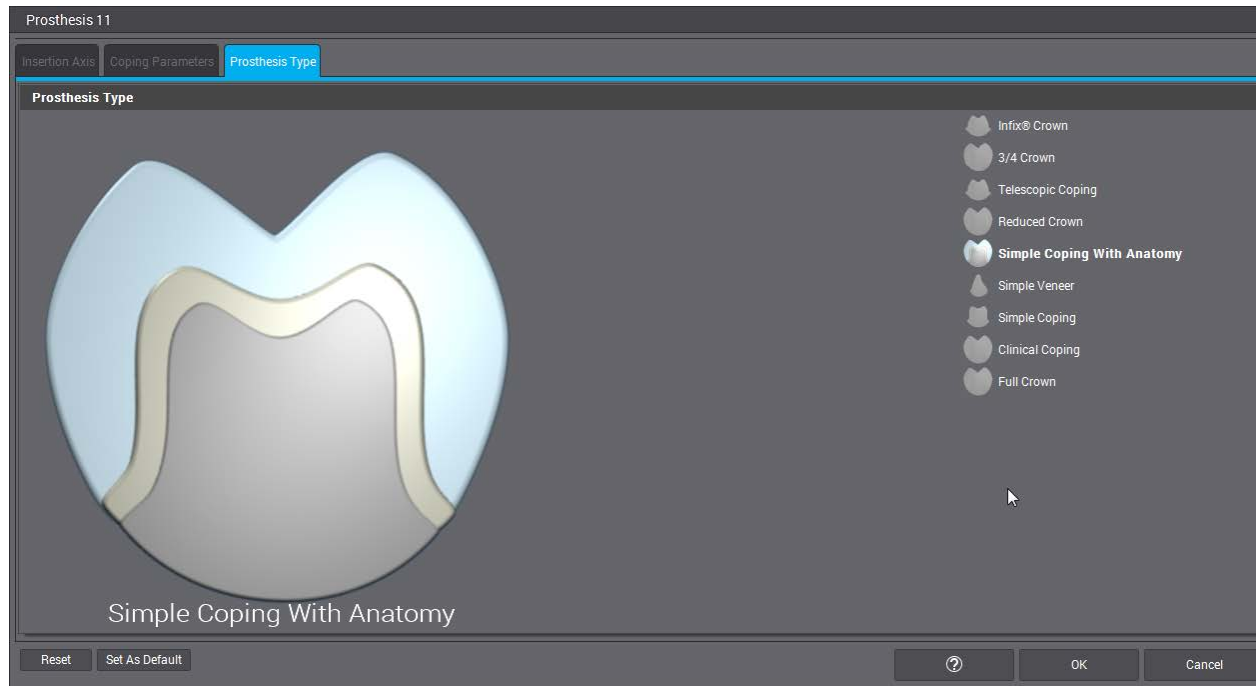
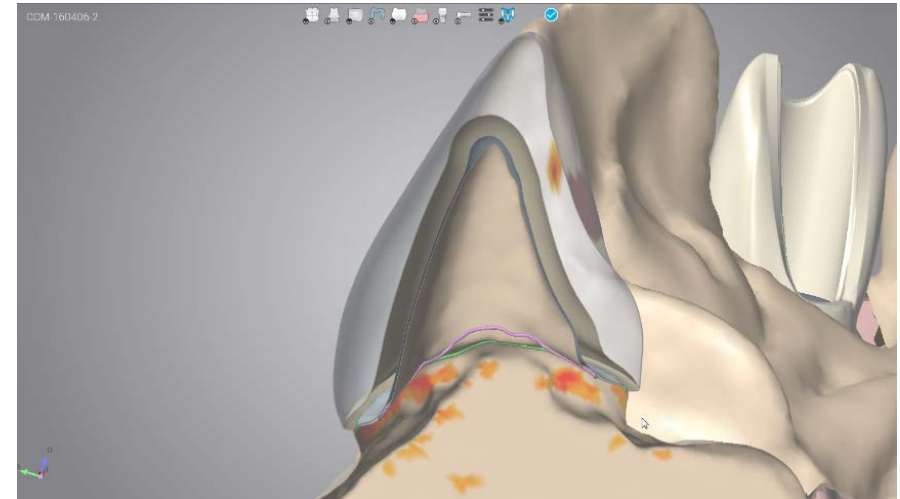
- Regular thickness
- No anatomy
- Minimal thickness
- Parameters
- Few actions





CAD: SIMPLE COPING WITH ANATOMY

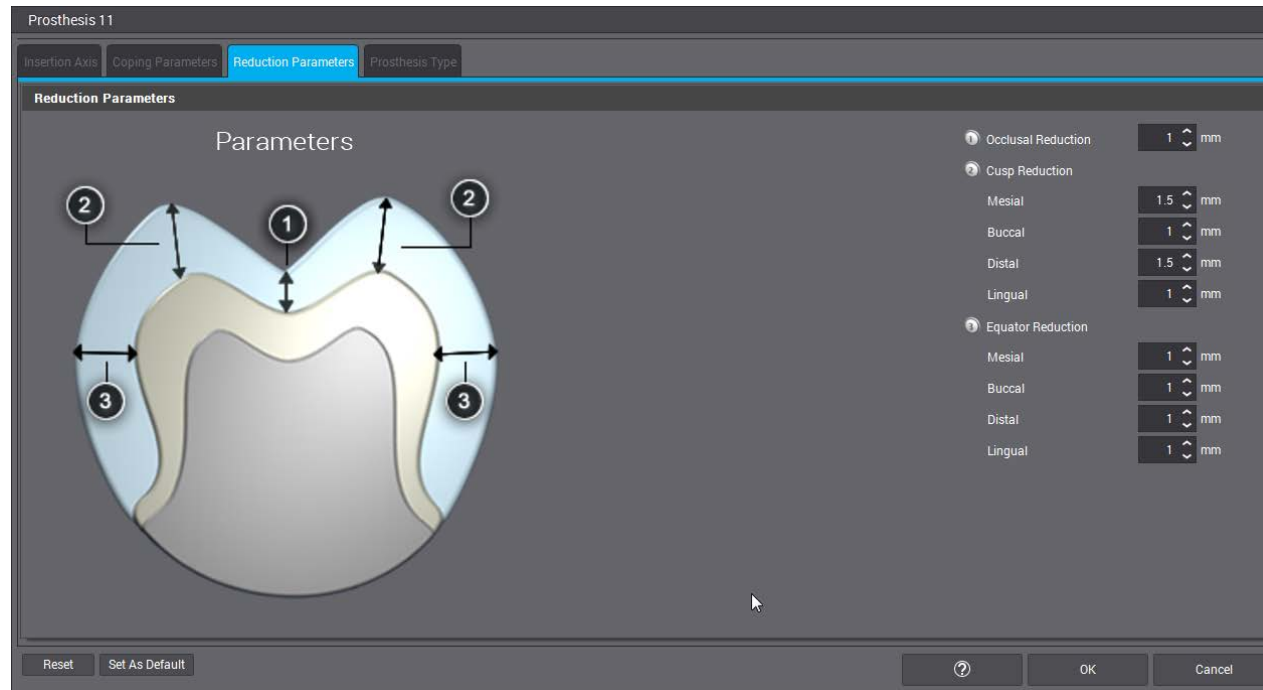
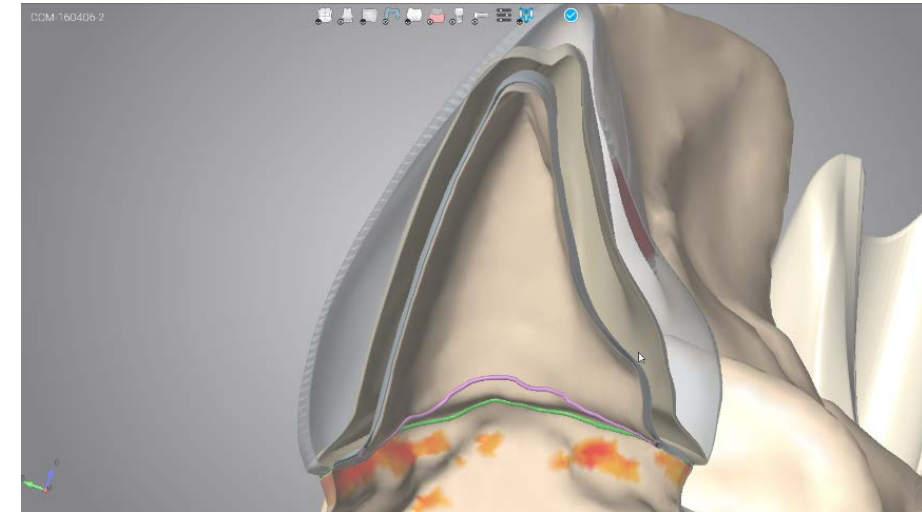
- Regular thickness
- Anatomy for overpressed
- Minimal thickness
- No specific parameters
- More actions





CAD: CLINICAL COPING

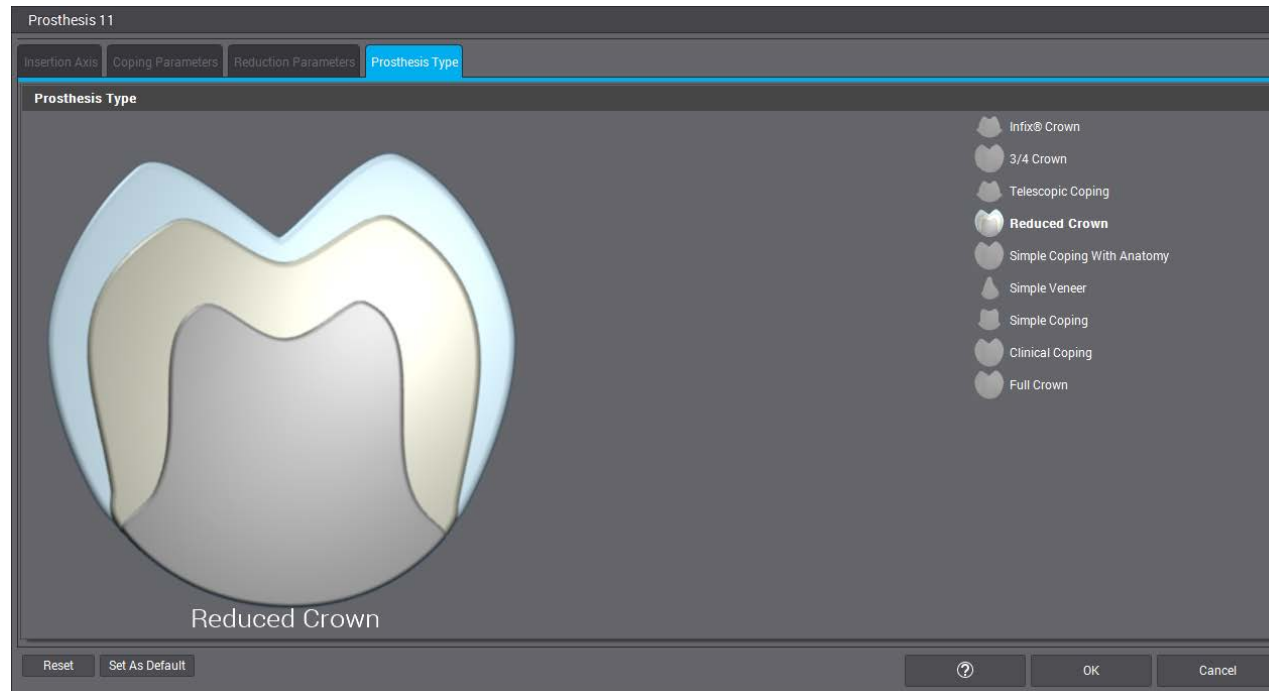
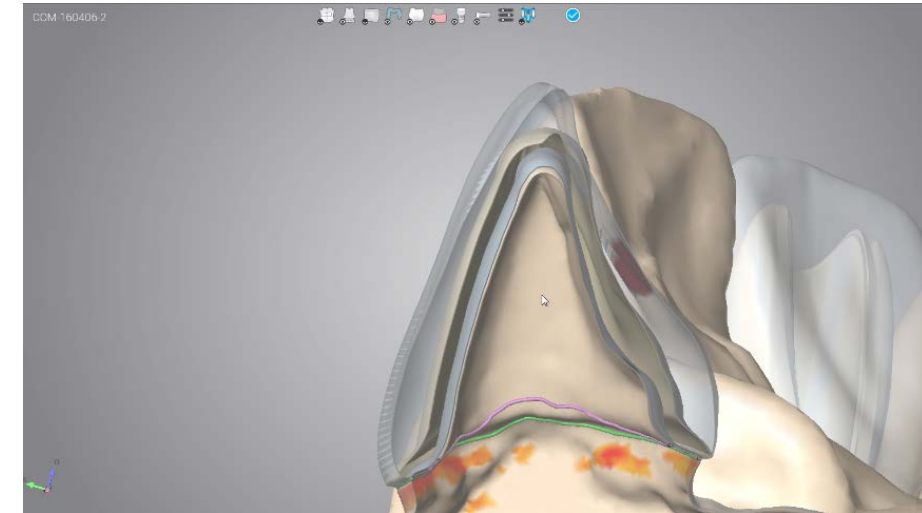
- Homothetic reduction
- Anatomy
- Minimal thickness
- parameters





CAD: REDUCED CROWN

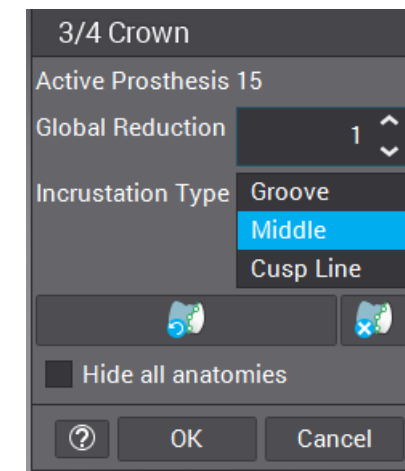
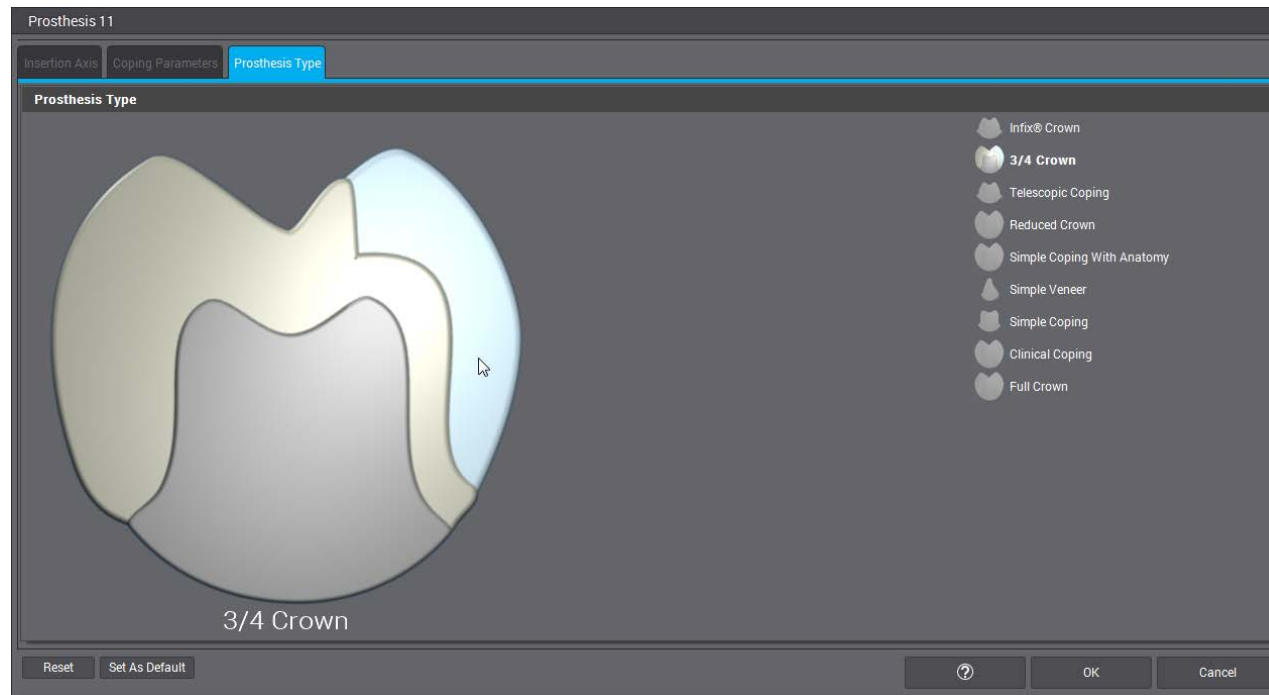
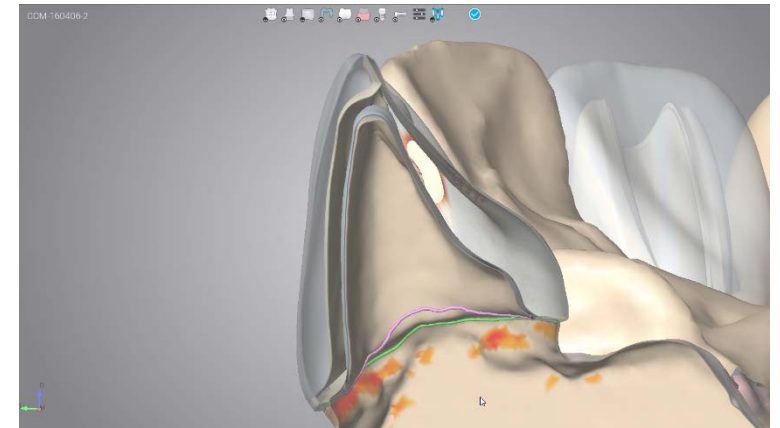
- “Small” reduction for Veneering
- Anatomy
- Minimal thickness
- Parameters





CAD: 3/4 CROWN

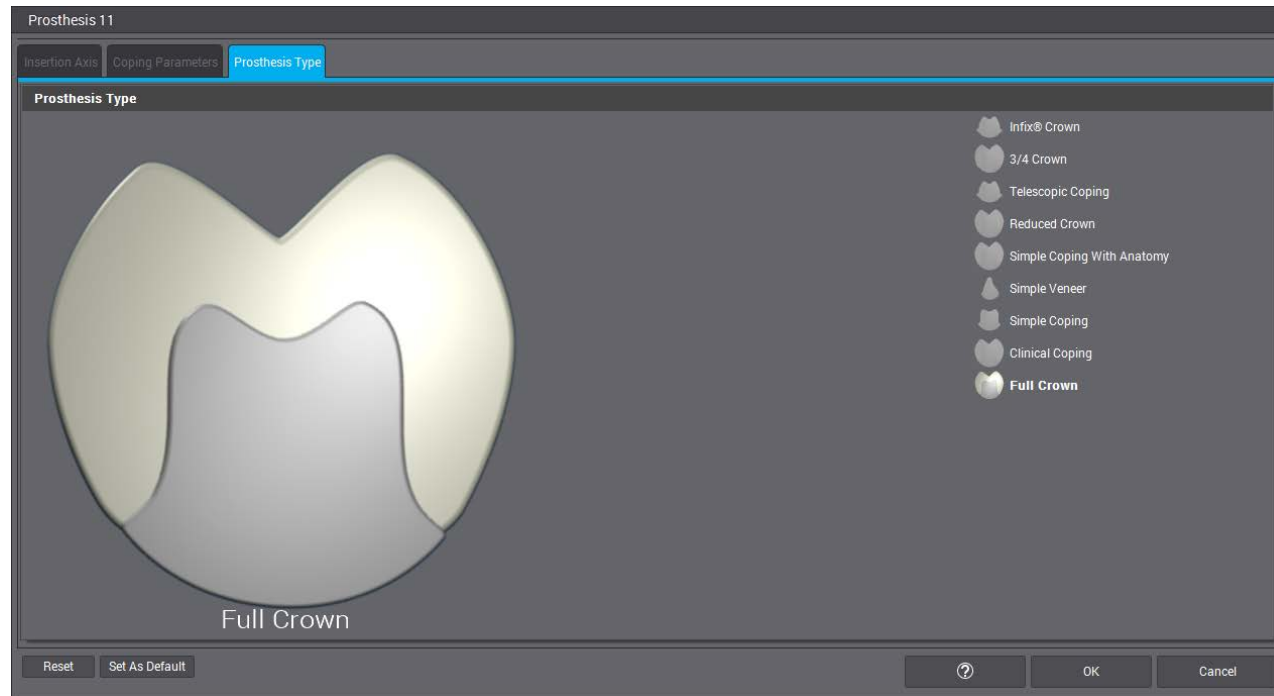
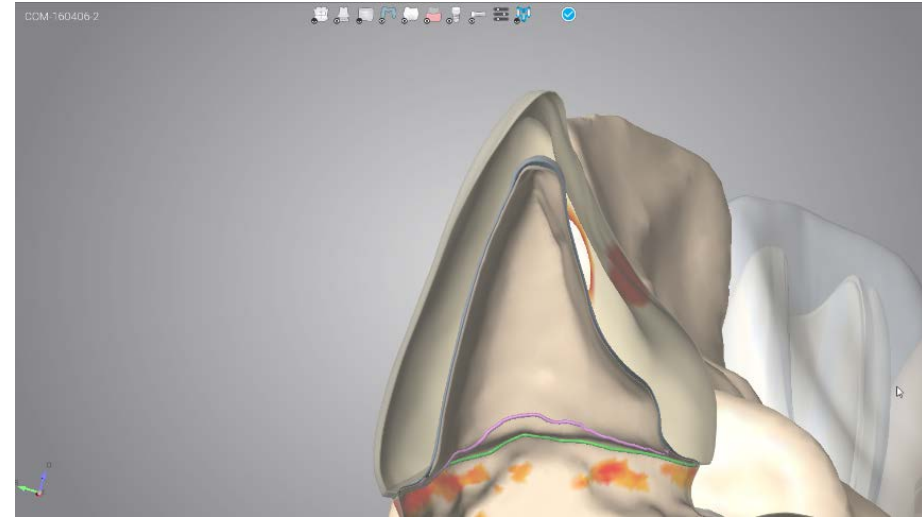
- Vestibular reduction for Veneering
- Anatomy
- Minimal thickness
- Parameters





CAD: FULL CROWN

- Full crown
- Duplication of anatomy
- No parameters
- Morphology editing



CAD 3

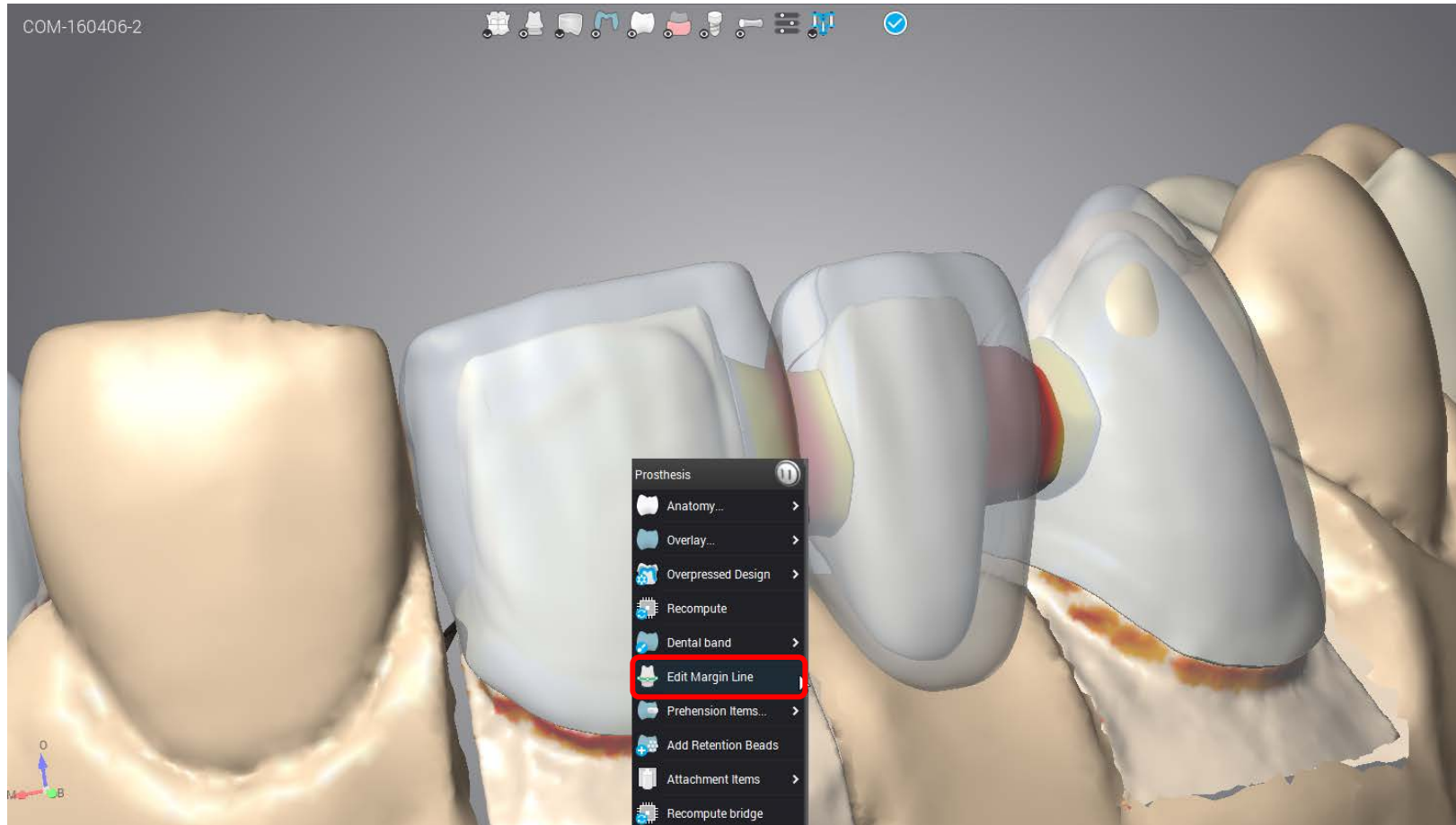
CAD ON SCAN 3





CAD 3: MODIFY MARGIN

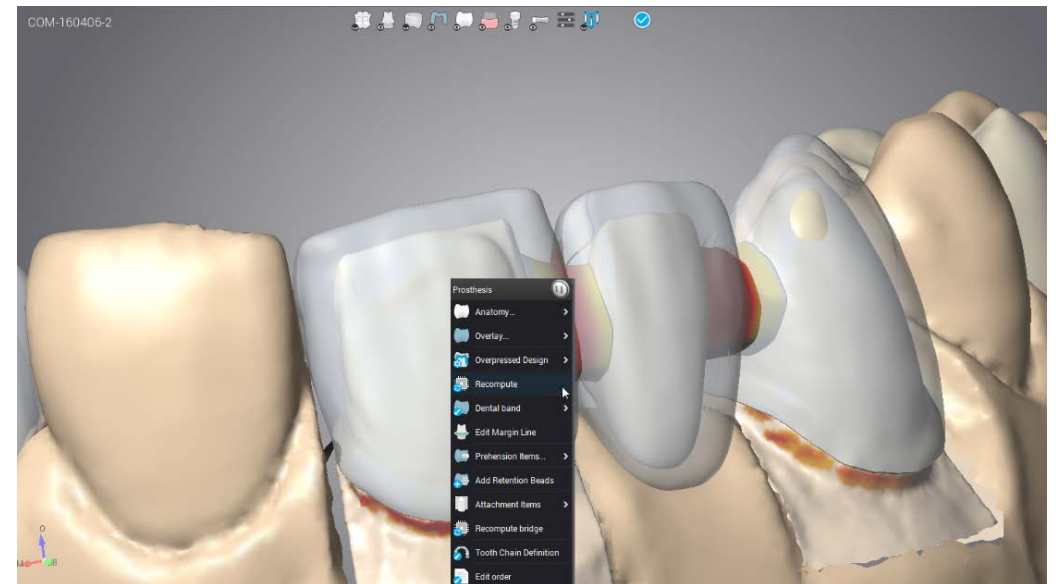
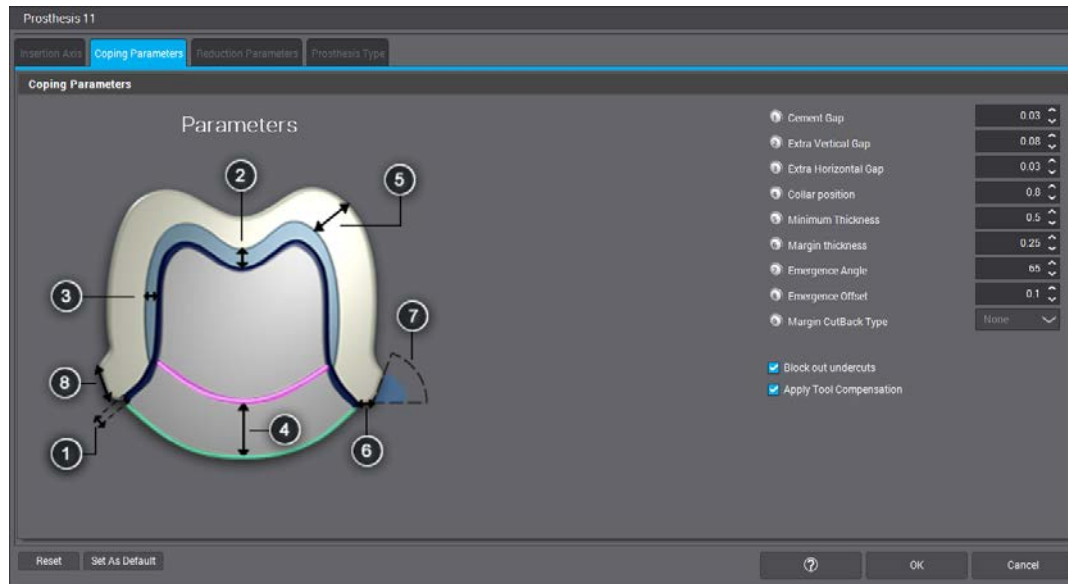
- Margin & cervical lines





CAD 3: RECOMPUTE

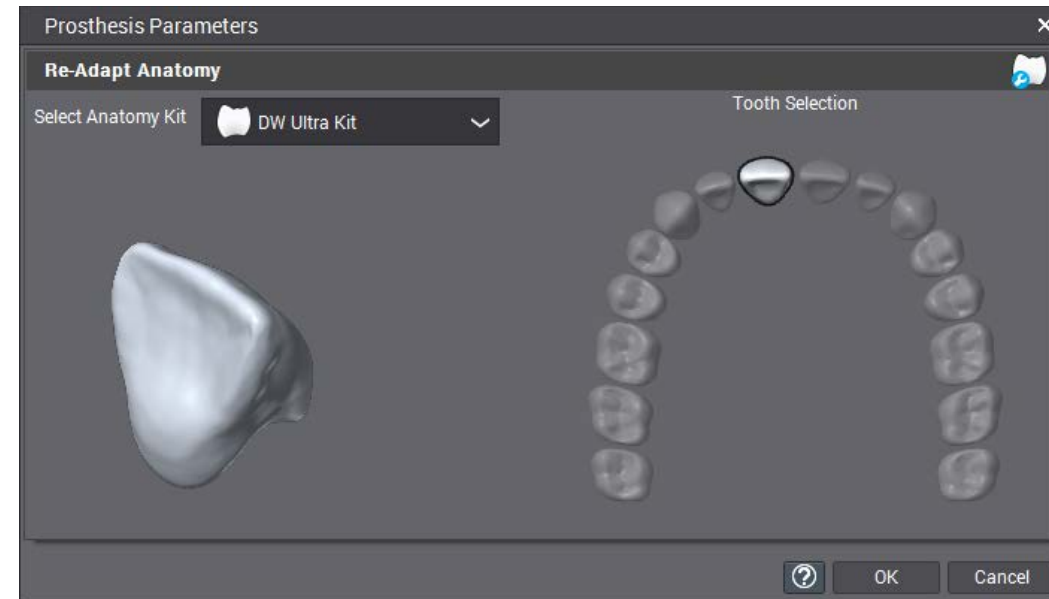
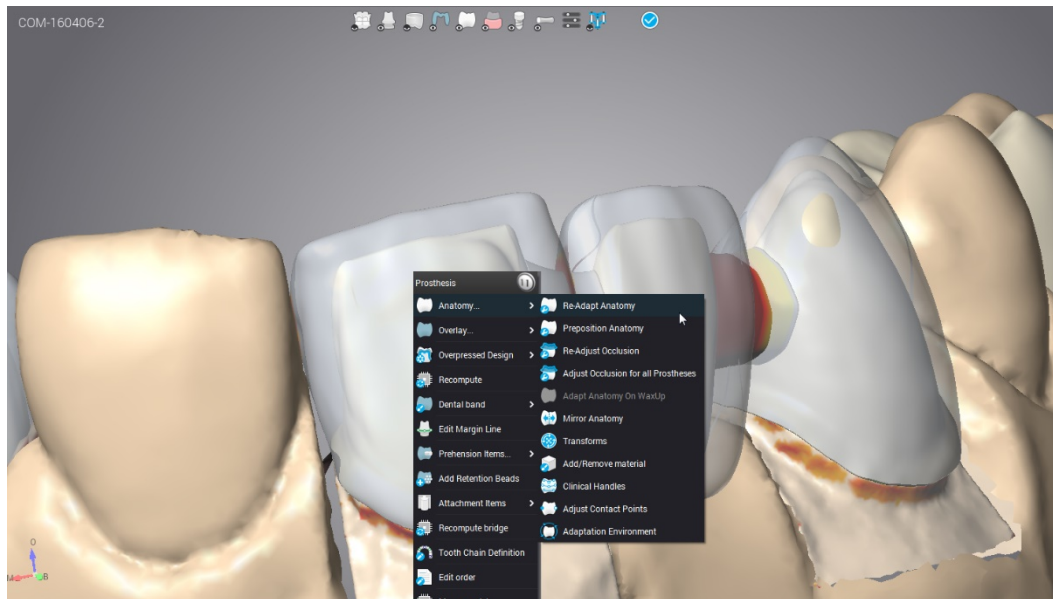
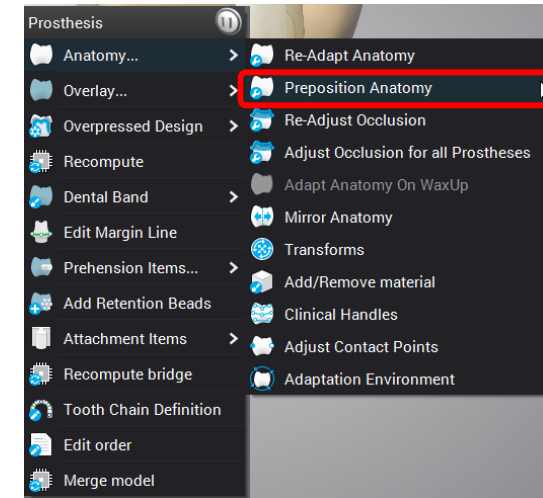
- Anatomy, Overlay, connector
- Insertion axis, friction parameters





CAD 3: RE-ADAPT ANATOMY

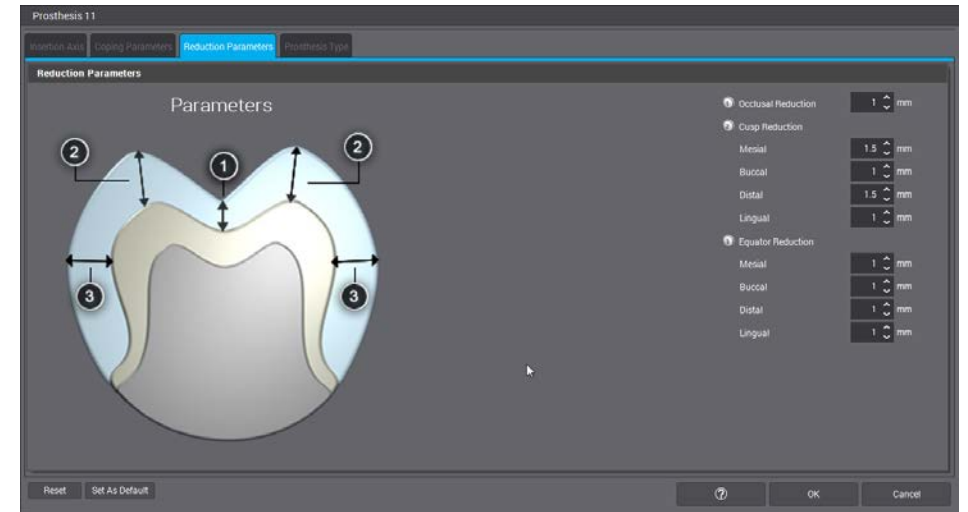
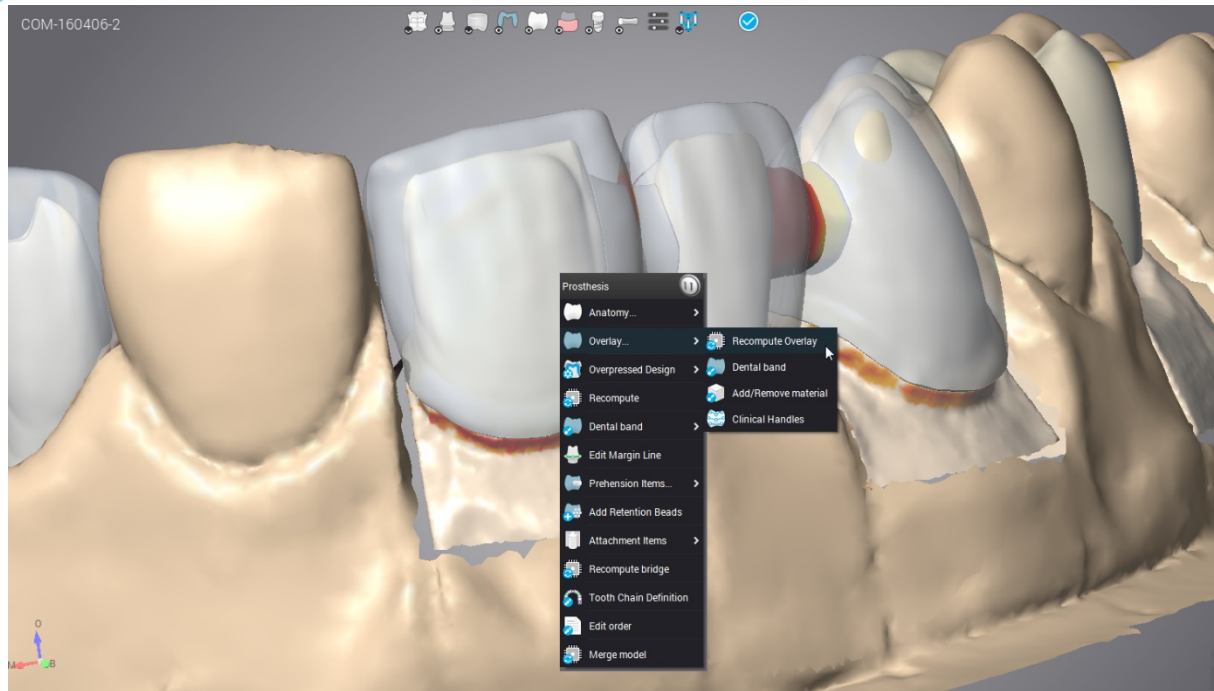
- Tooth number
- Anatomy kit
- Preposition Anatomy(NEW)





CAD 3: RECOMPUTE OVERLAY

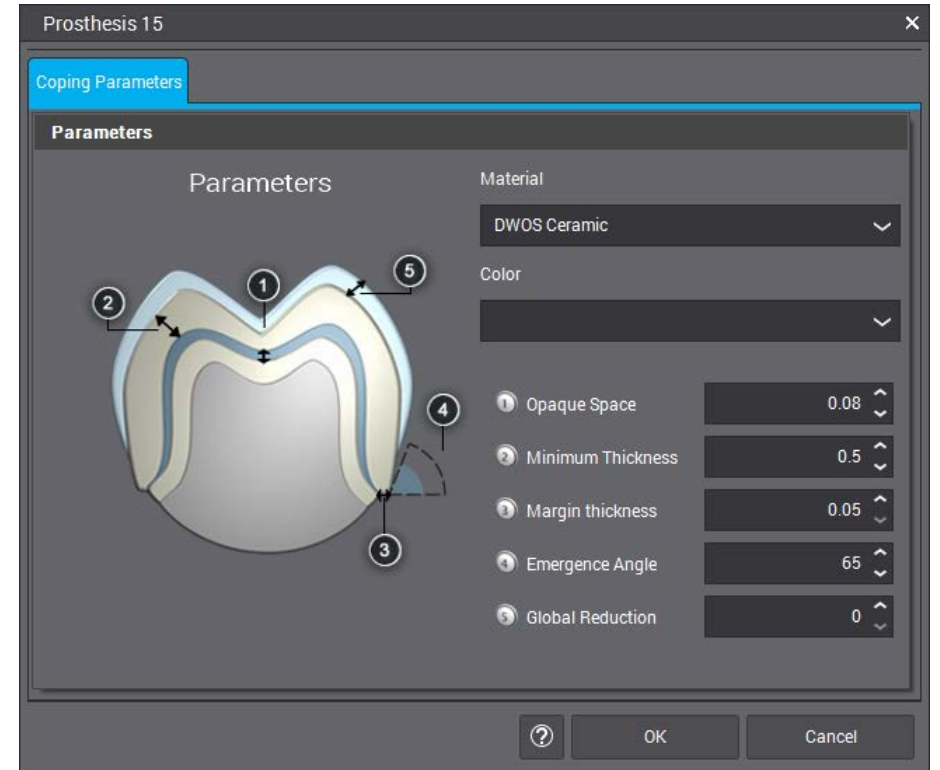
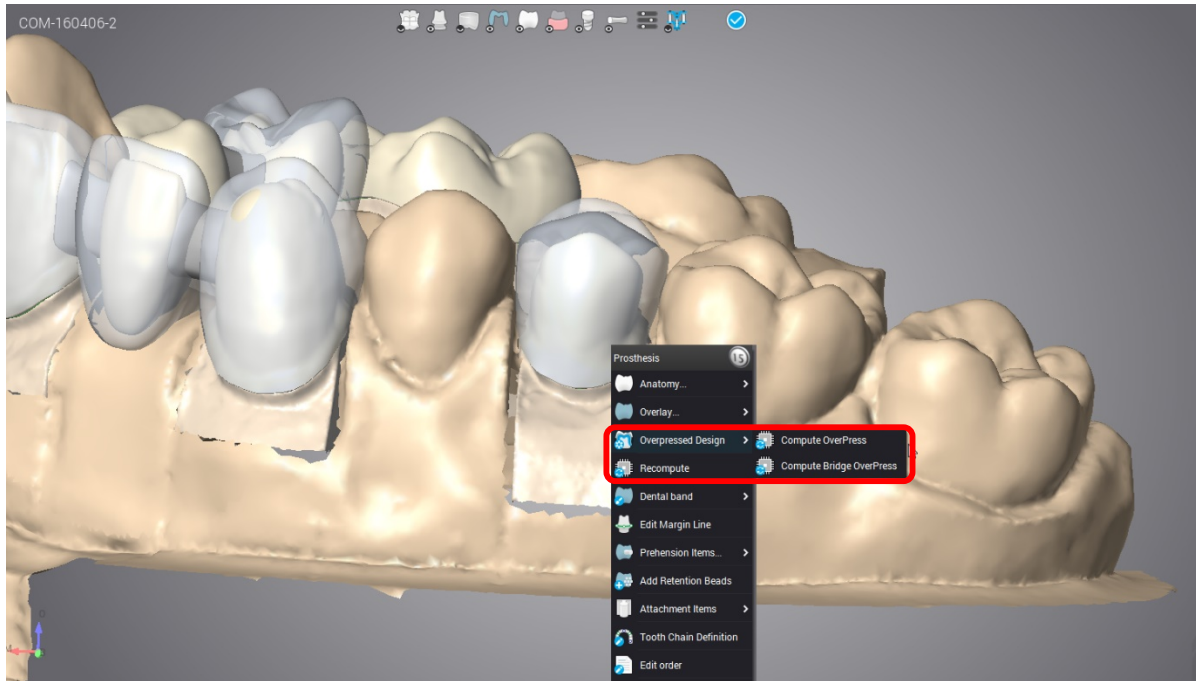
- Prosthesis type
- parameters





CAD 3: OVERPRESSED

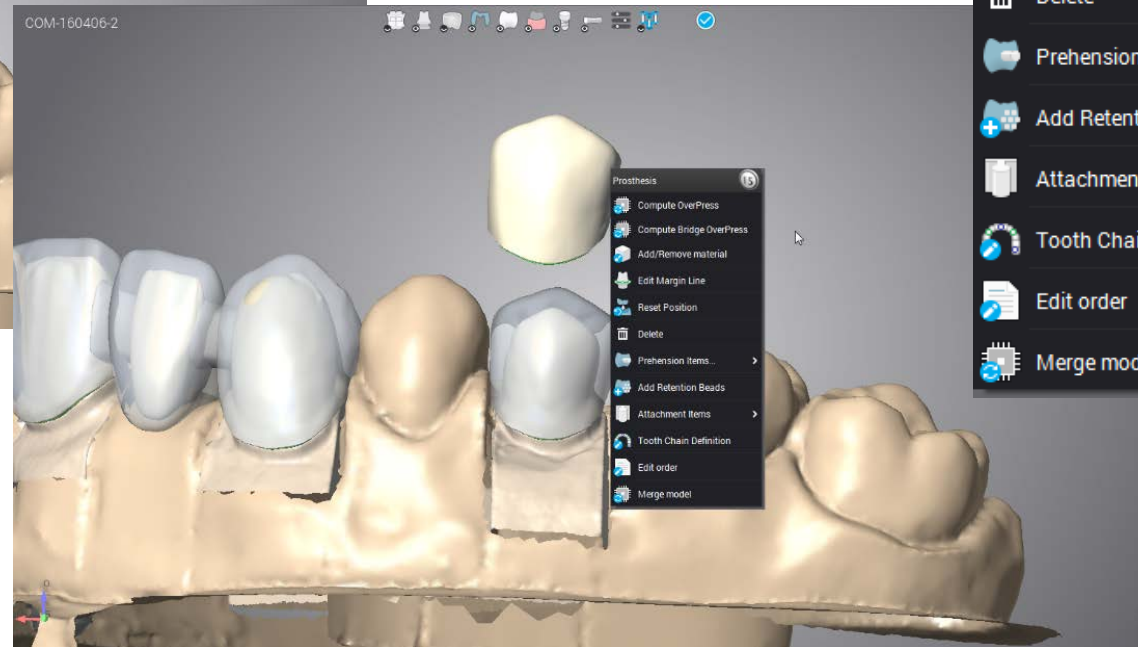
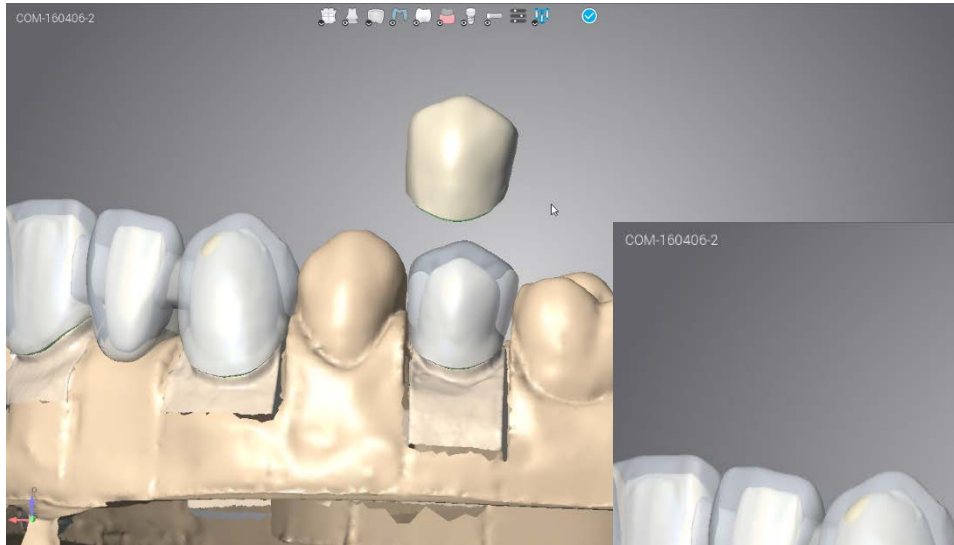
- For pressed porcelain
- For the anatomy
- Parameters





CAD 3: OVERPRESSED

- Display
- Local menu



Prosthesis 15

- Compute OverPress
- Compute Bridge OverPress
- Add/Remove material
- Edit Margin Line
- Apply Displacement
- Delete
- Prehension Items... >
- Add Retention Beads
- Attachment Items >
- Tooth Chain Definition
- Edit order
- Merge model

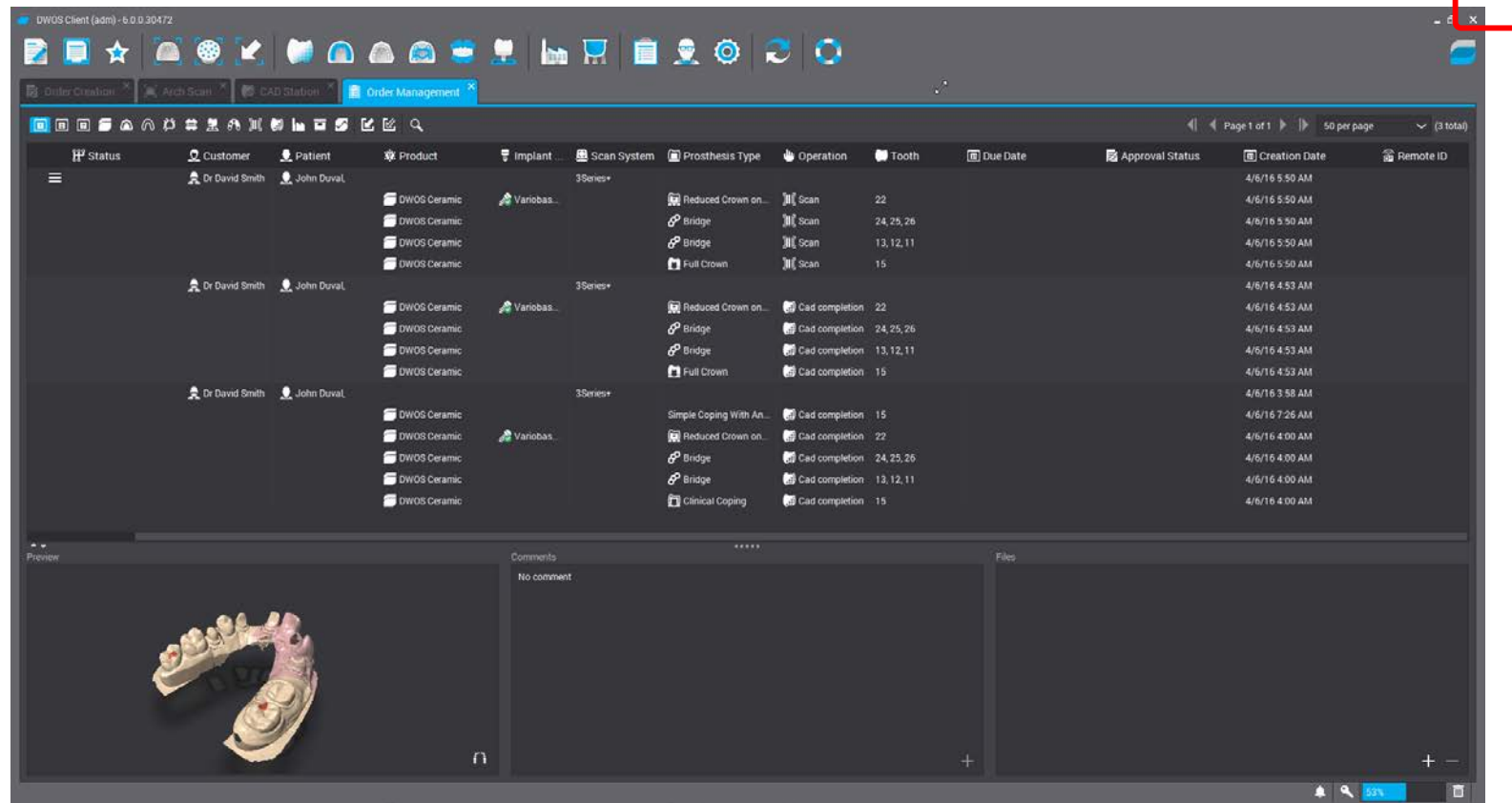
EXIT & SHUTDOWN





EXIT FROM DWOS CLIENT

- To close all the applications
- Two ways possible with



QUESTIONS & ANSWERS





DWOStm PROSTHESIS DESIGN SOFTWARE

INITIAL TRAINING – DAY 2

MULTIDIE 2

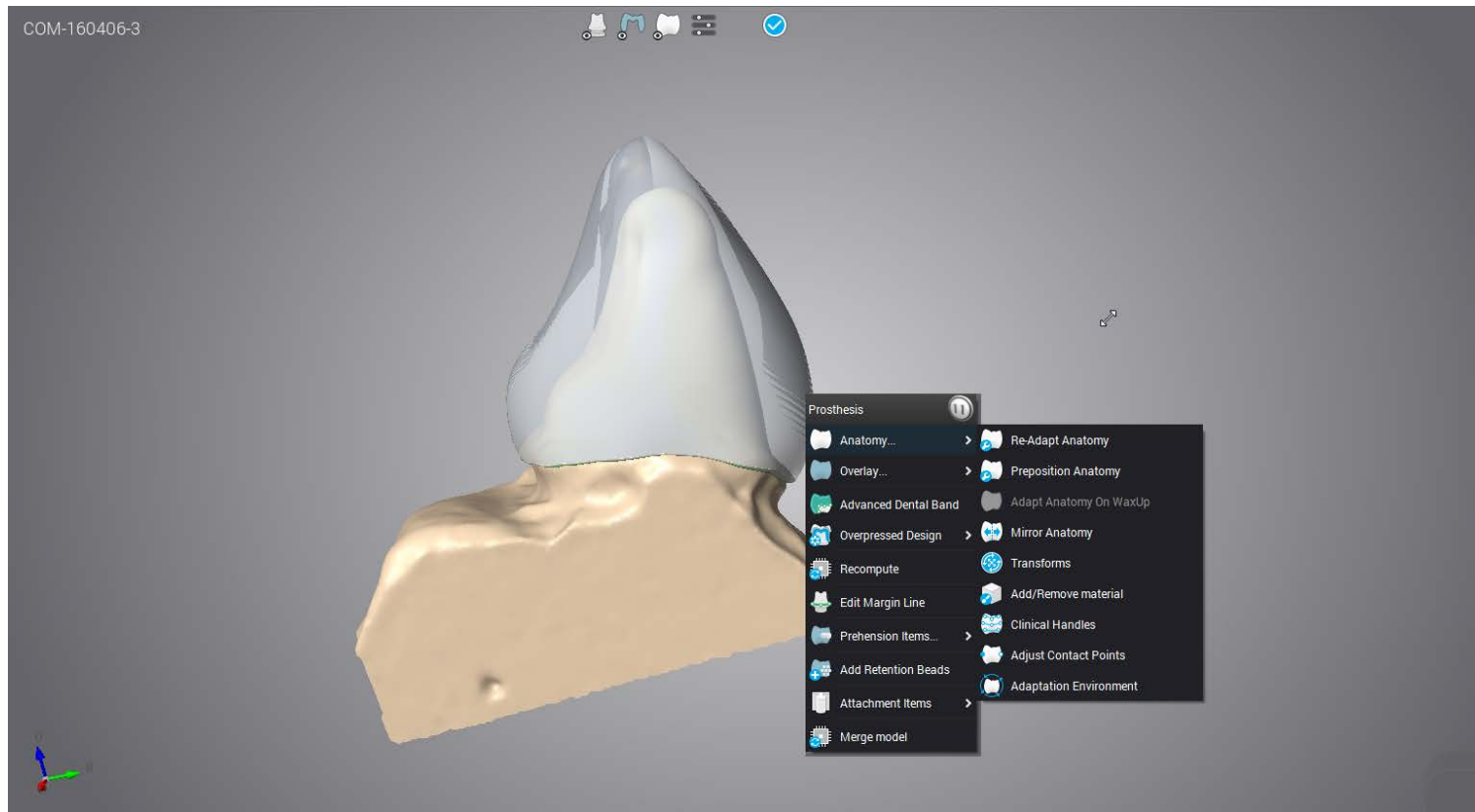
ADVANCED USE





MULTIDIE 2: ADVANCED

- Not limited to simple coping
- CAD design tool accessible

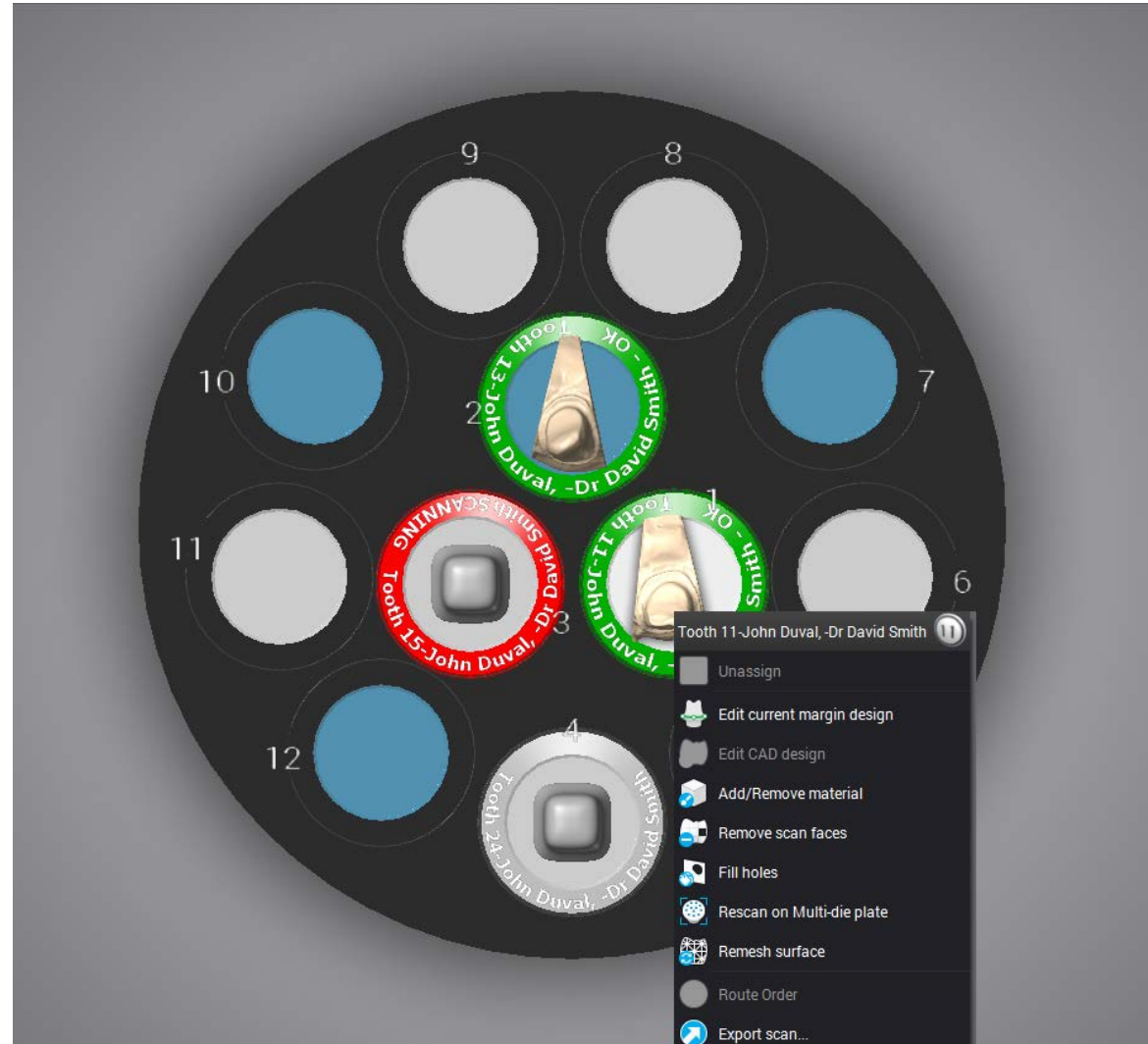




MULTIDIE 2: REDO AND CHANGE



- Local menu
- Rescan
- Edit margin
- Edit cad



CAD 4

CAD ON SCAN 4



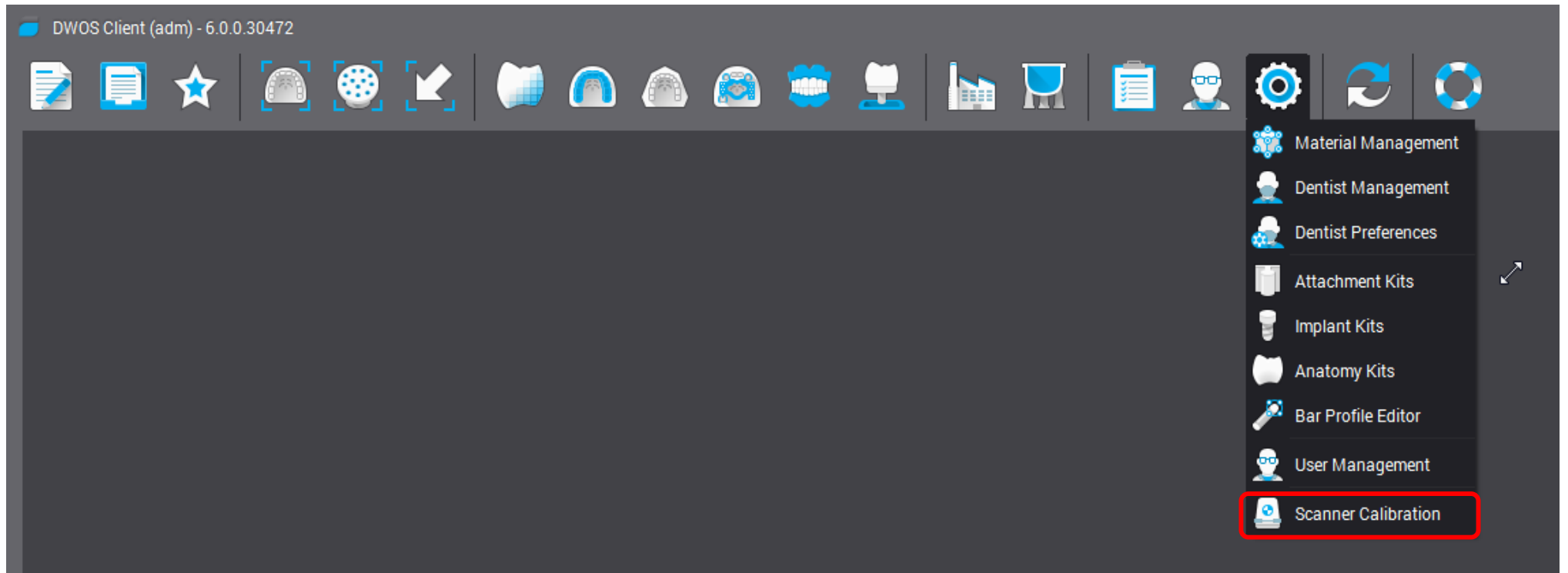
CALIBRATION





CALIBRATION: INTRODUCTION

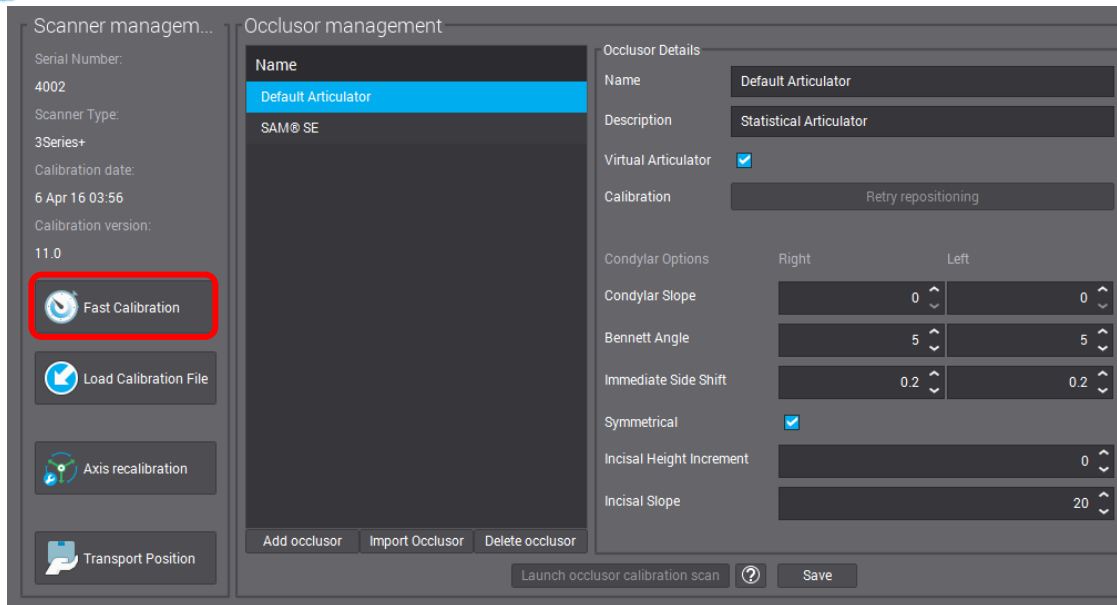
- Ensure accuracy
- Every two weeks





CALIBRATION: 3SERIES

- Full automatic
- 10 minutes





CALIBRATION: PLATE



- Full automatic
- 10 minutes



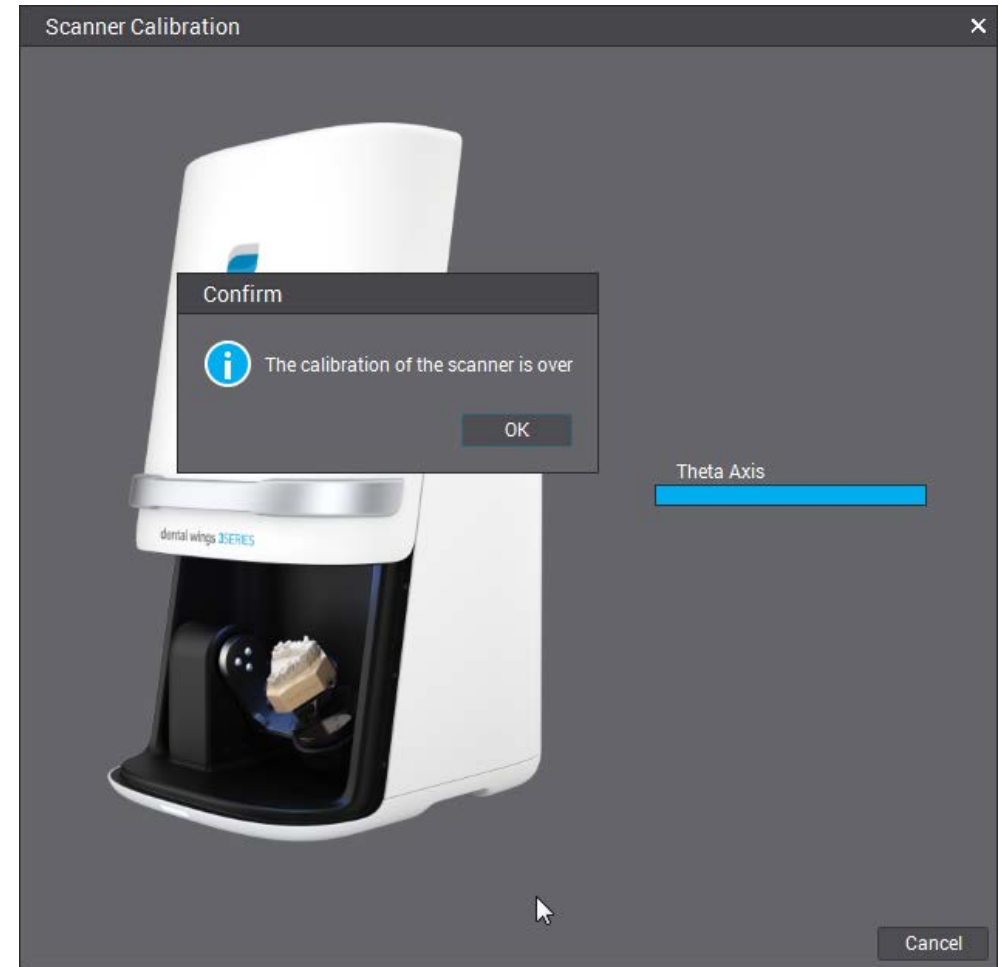
Surface plate is fragile



CALIBRATION



- Several automatic step
- Message when done



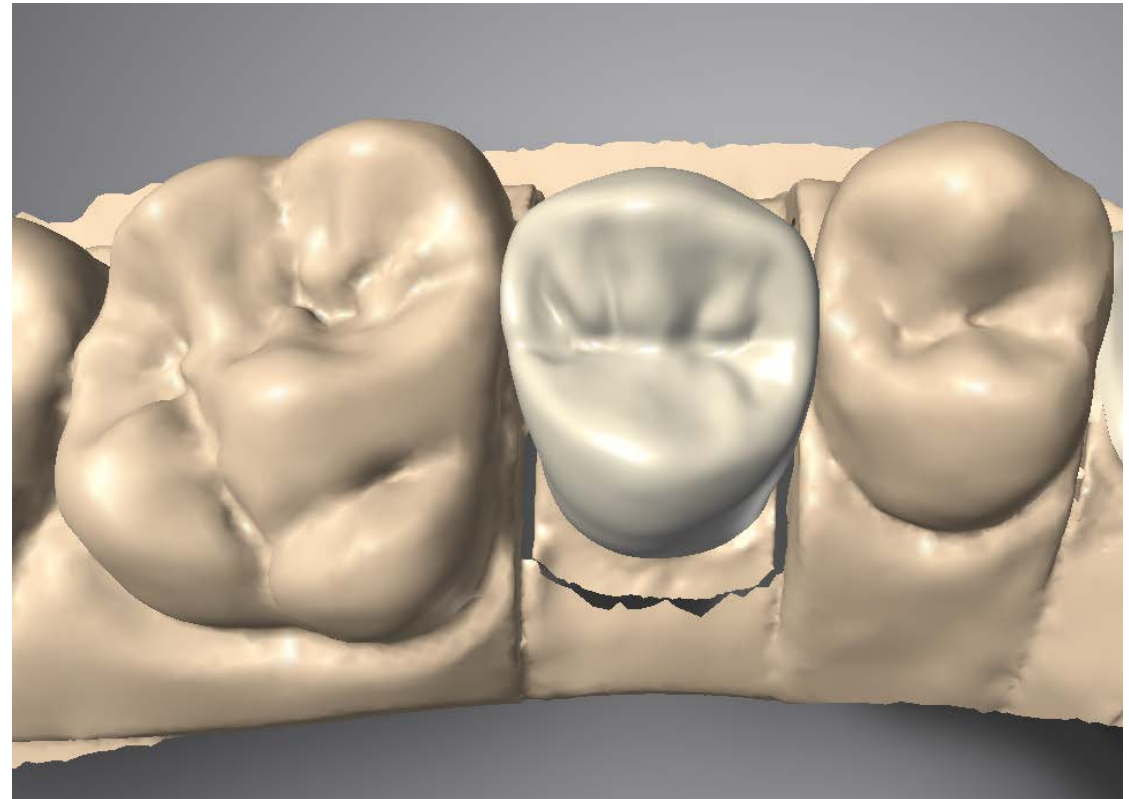
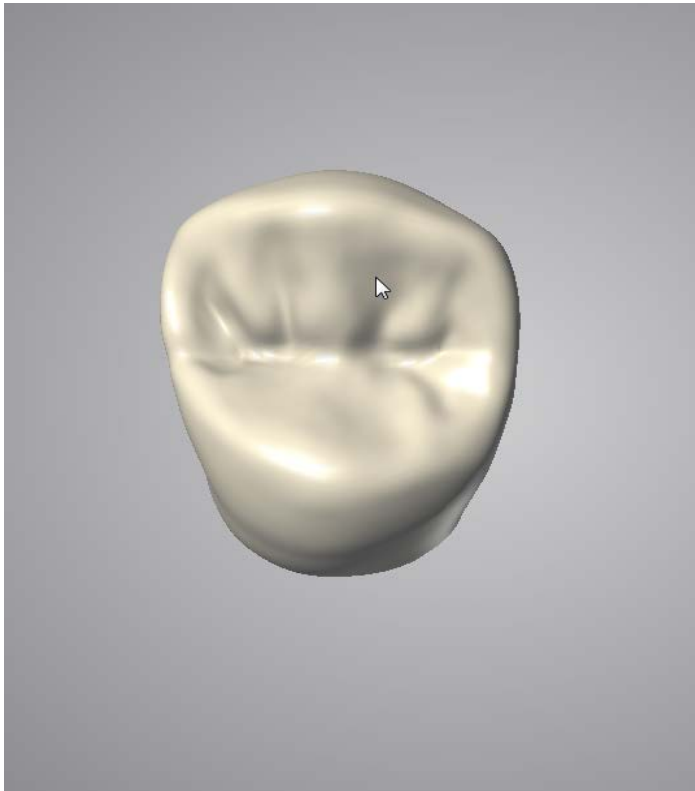
Anatomy kit editor





ANATOMY EDITOR: REMINDER

- Used for automatic proposal computation





ANATOMY EDITOR: REMINDER

- User choice

CNB & IMPLANTS ORDER

Order ID
COM-160406-7

Dentist
Dr David Smith

Patient
John Duval,

Prosthesis Family
Crowns

Material
DWOS Ceramic

Color

Prosthesis Subtype
Simple Coping

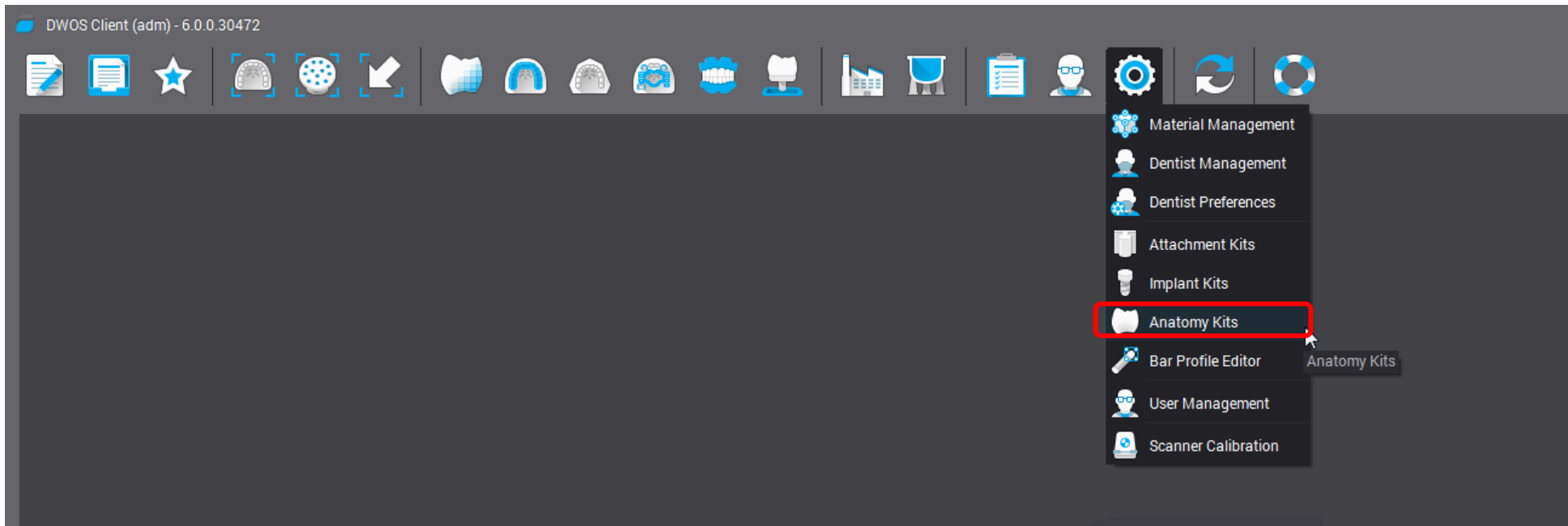
Anatomy Family
DW Kit

- DW Kit
- DW Ultra Kit
- Merz Dental
 - DeltaForm® Posterior
 - Polystar® Selection
 - artegral® BM
 - artegral® CM
 - artegral® IM



ANATOMY EDITOR: INTRODUCTION

- Create kits
- Import kits(.wafelib files)
- Anatomy kit= morphology + clinical points
- Three Ways





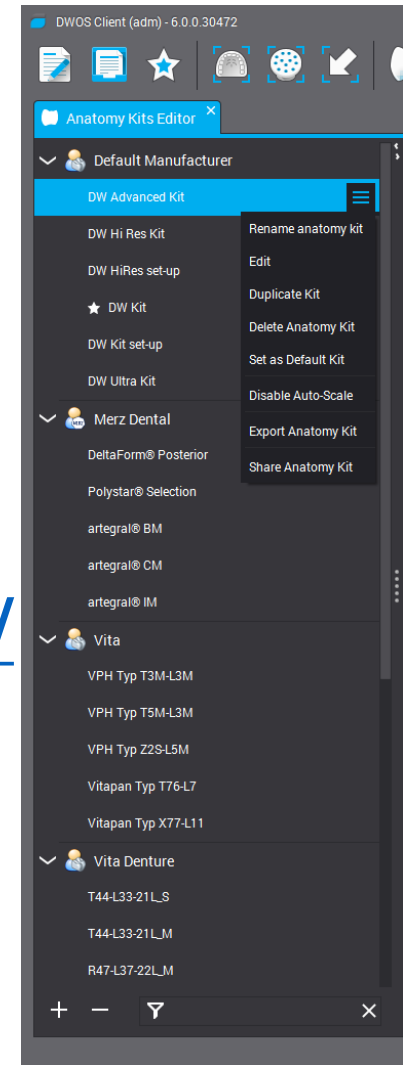
ANATOMY EDITOR: KIT MANAGEMENT



- Default kits
- Download from:

<http://www.dentalwings.com/ressources/anatomies/>

- Duplication





ANATOMY EDITOR: EDIT

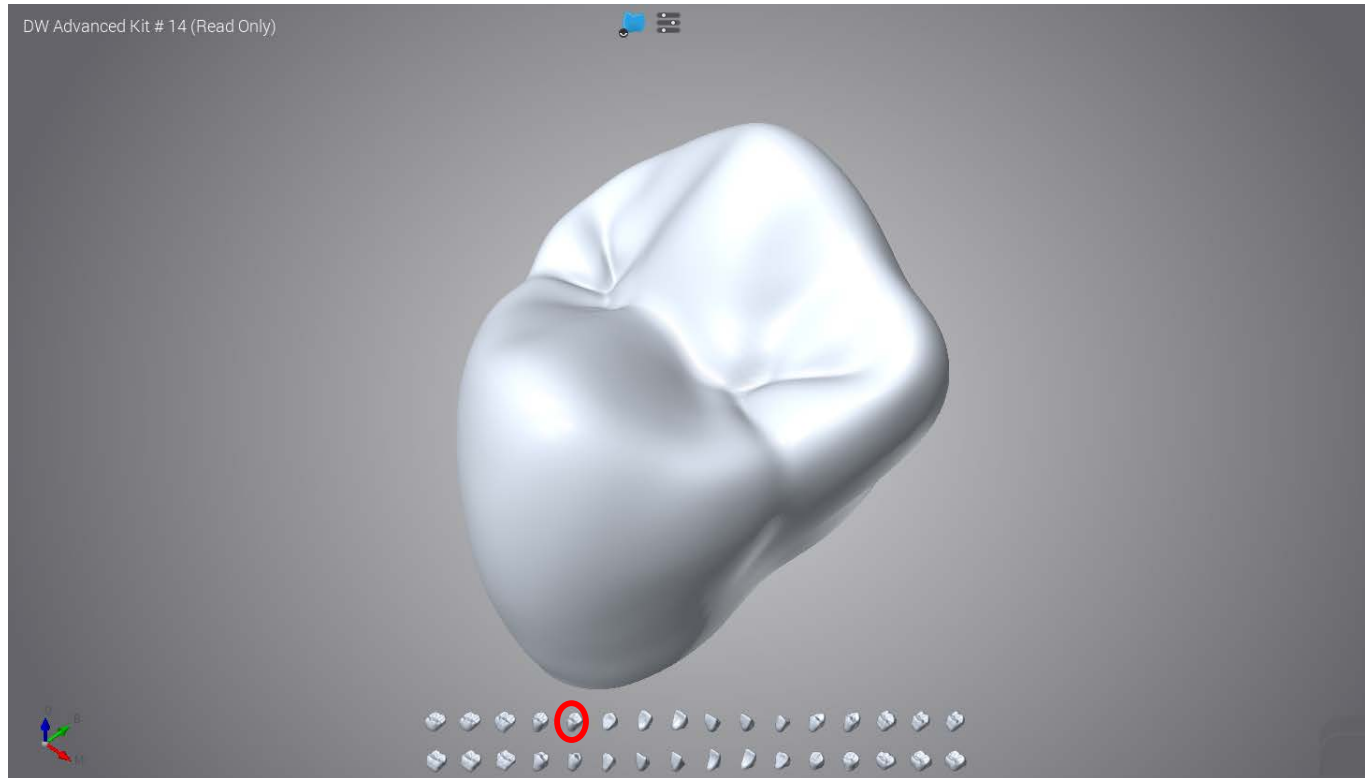
- Rename
- Tooth selection

Duplicate Kit

Duplicate Kit

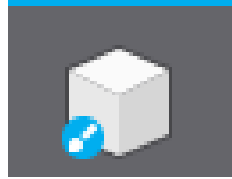
New Kit Name

OK Cancel





ANATOMY EDITOR: ADD/REMOVE MATERIAL



The screenshot displays the DWOS Client software interface. On the left is a tree view of 'Anatomy Kits Editor' with categories like 'Default Manufacturer', 'Merz Dental', 'Vita', and 'Vita Denture'. The 'dwos' kit is selected. The main workspace shows a 3D dental model with a blue circular selection tool. The 'Add/Remove Material' dialog box is open on the right, showing settings for 'Waxing Tools' (Add: Mouse Left Button, Remove: Ctrl + Left Button, Smooth: Shift + Left Button, Morphing, Eraser: Alt + Left Button), 'Presets' (Current size: 1.054, Amplitude: 0.04), 'Min/Max Range (in mm)', 'Spine Edition Tools', and 'Display Options' (Automatic Undo/Redo, Display No Colors, Display False Colors). A color scale bar is visible at the bottom of the dialog. The interface includes a top toolbar, a bottom toolbar, and a status bar at the bottom right showing 'Clip Planes View Type' and '43%' zoom.



ANATOMY EDITOR: CLINICAL HANDLES



dwos # 14

Clinical Handles

Handles Edition <

Handles Selection <

Options ▾

Handle Size 0.3 mm

Global Local

- Force Smooth deformation
- Show Equator Handles
- Show clip view
- Show measures
- Display undercuts

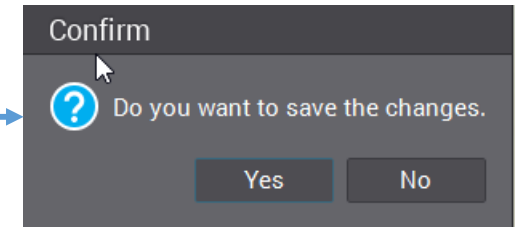
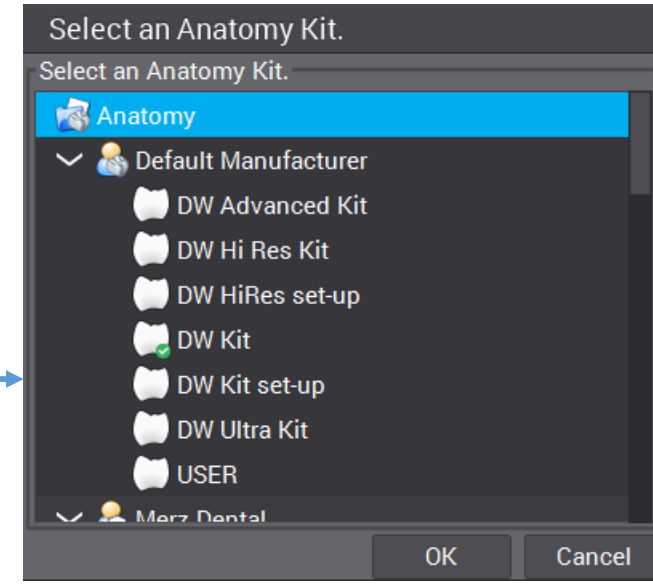
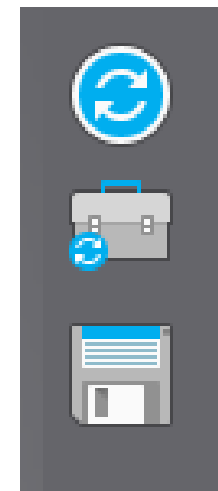
⏪ ⏩ OK Cancel



ANATOMY EDITOR: RELOAD & SAVE



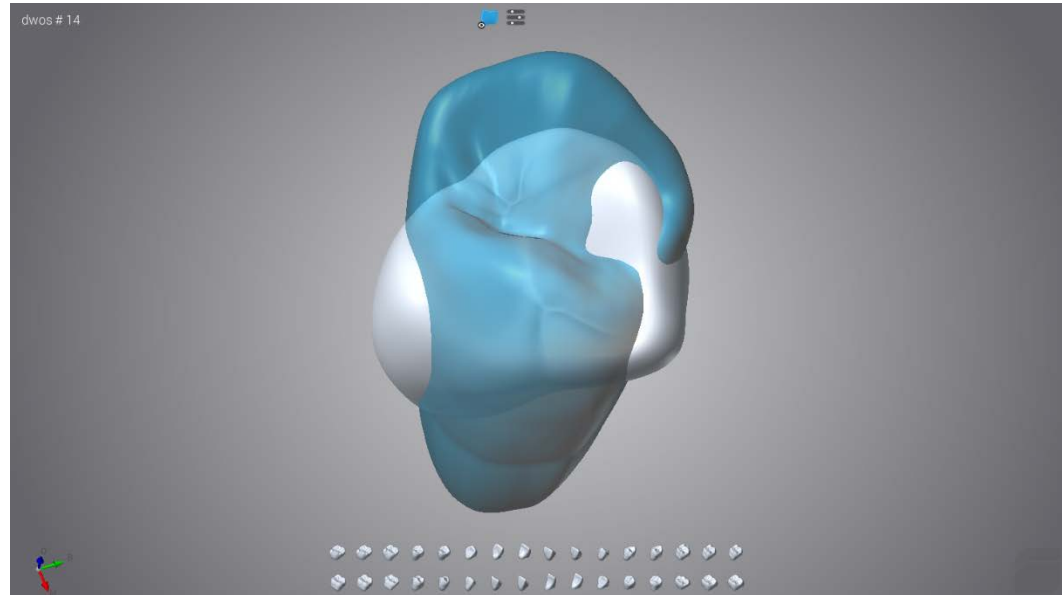
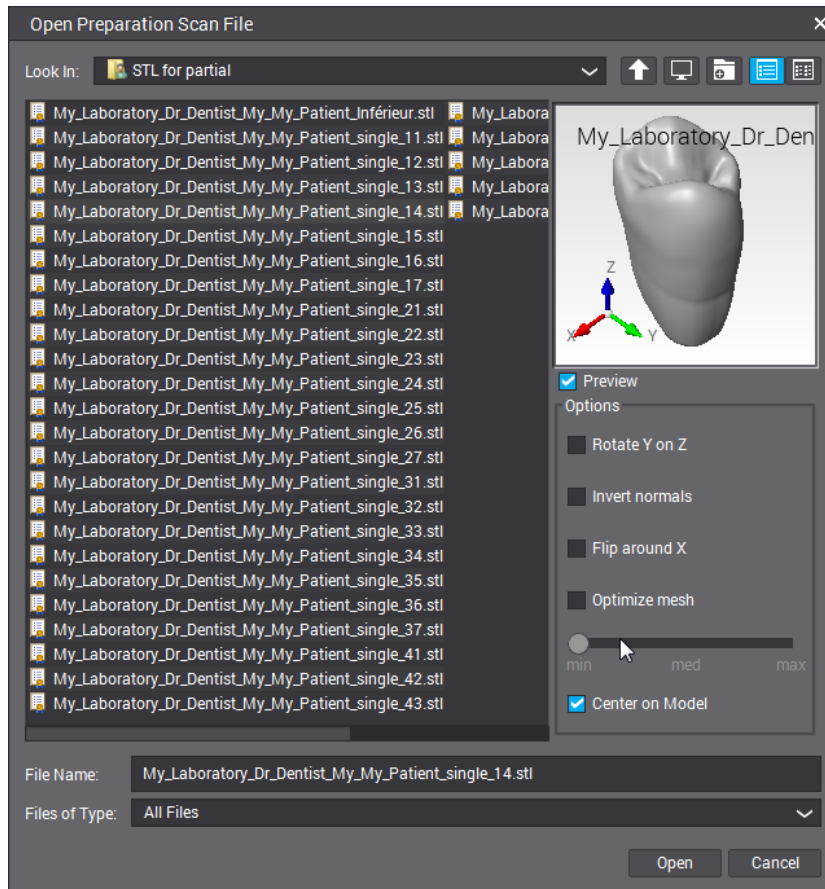
- **Reload since last change**
- **Reload from anatomy**
- **Save**





ANATOMY EDITOR: USING STL

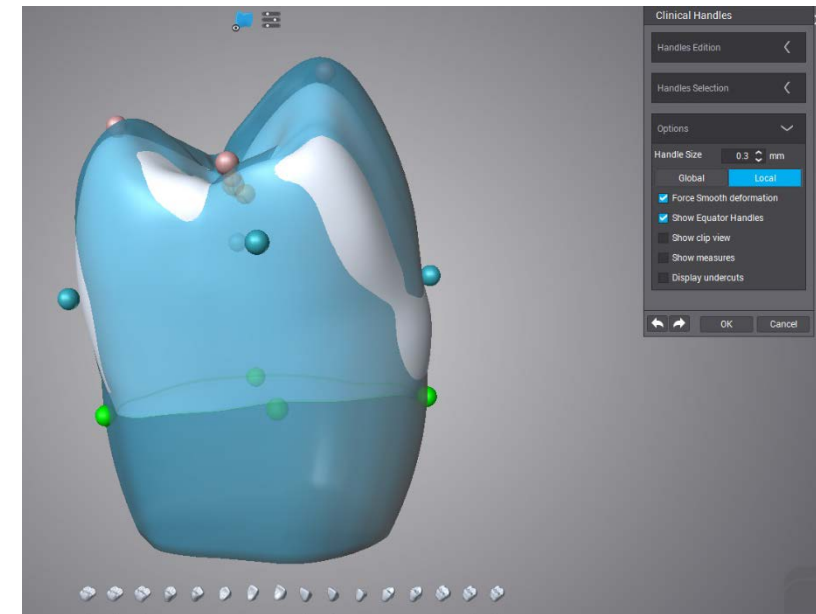
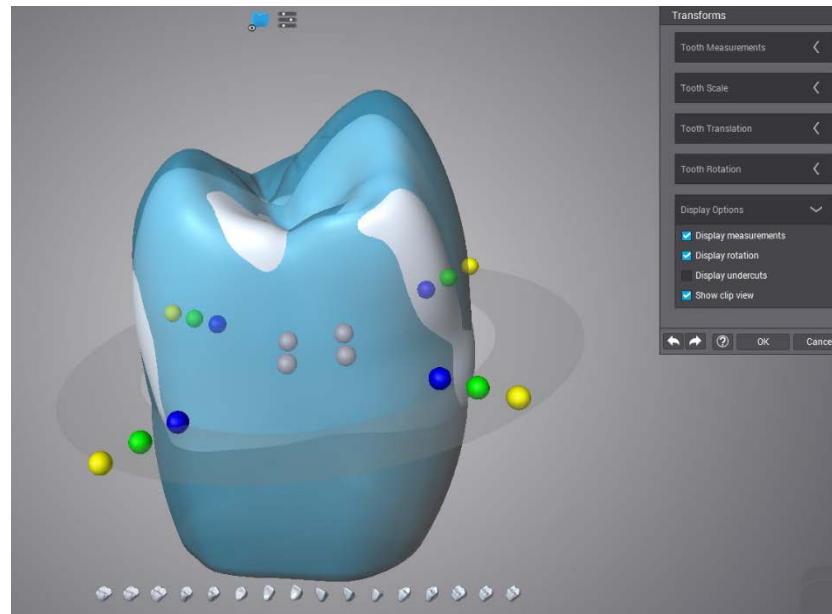
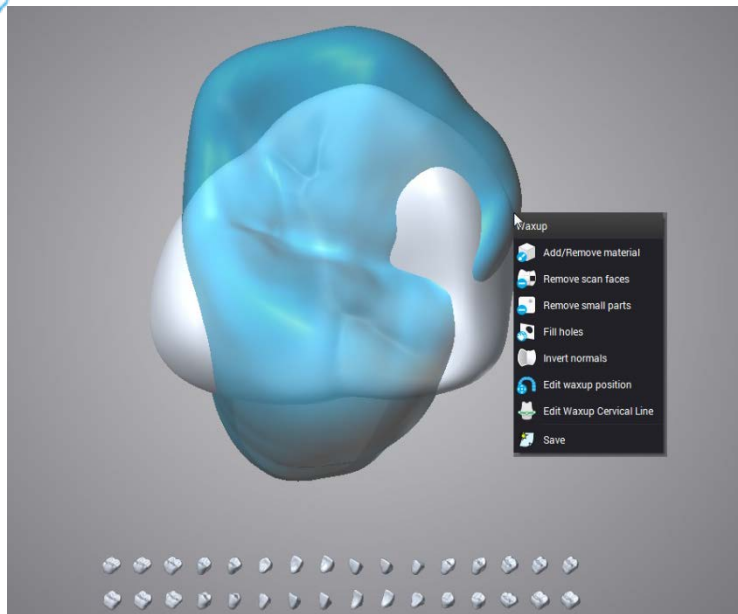
- Load STL





ANATOMY EDITOR: USING STL

- Orientate & scale





ANATOMY EDITOR: USING STL

- Adapt anatomy to wax-up



dwos # 14

Distal Ridge

Distal Fossa

Lingual Cusp

Central Fossa

Buccal Cusp

Mesial Fossa

Mesial Ridge

Wax-up

Set extraction axis

Adapt Anatomy On WaxUp

Project Smooth

Reset Waxup Info

? OK Cancel



PAUSE

Back in **10** minutes

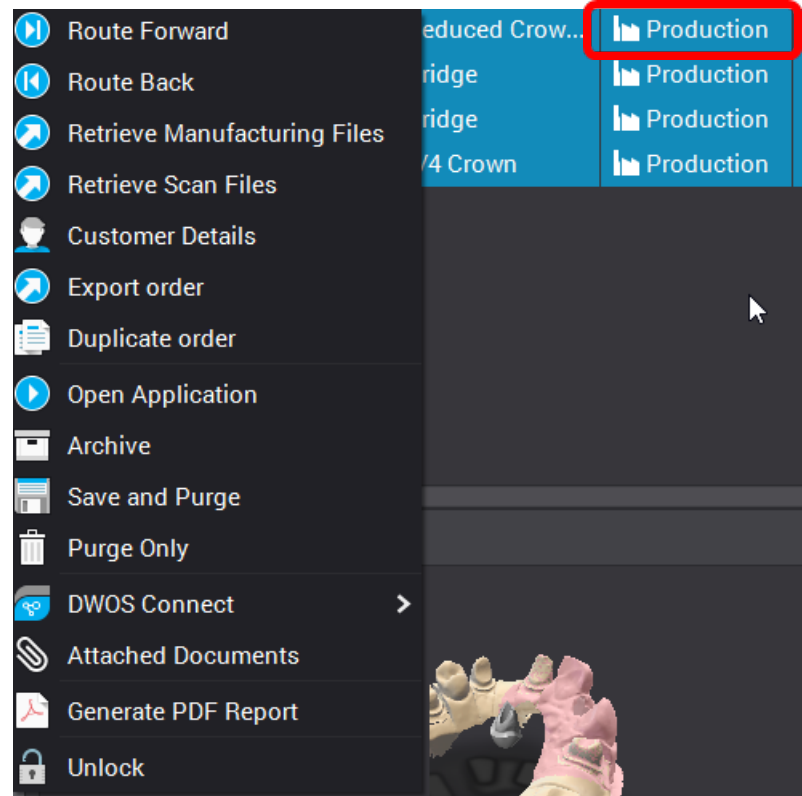
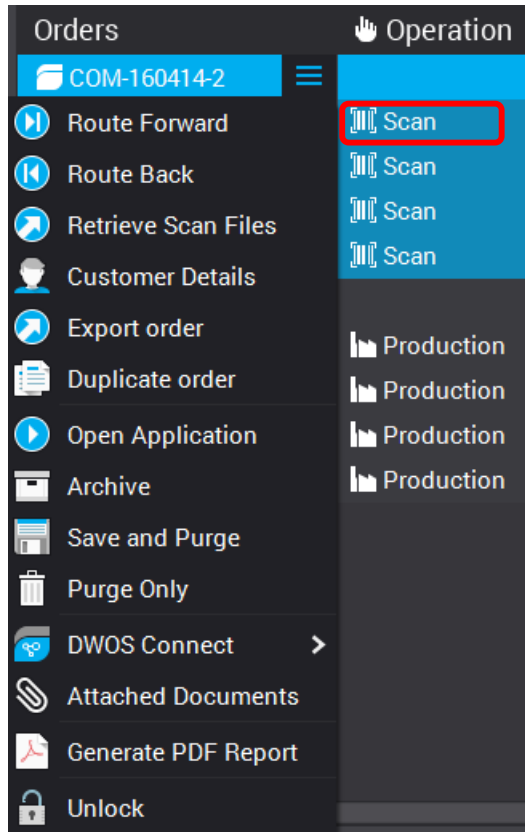
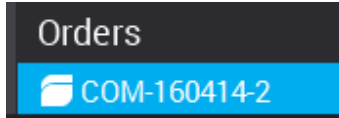
ADMINISTRATIVE FONCTIONS





ADMISTRATIVE APPLICATION

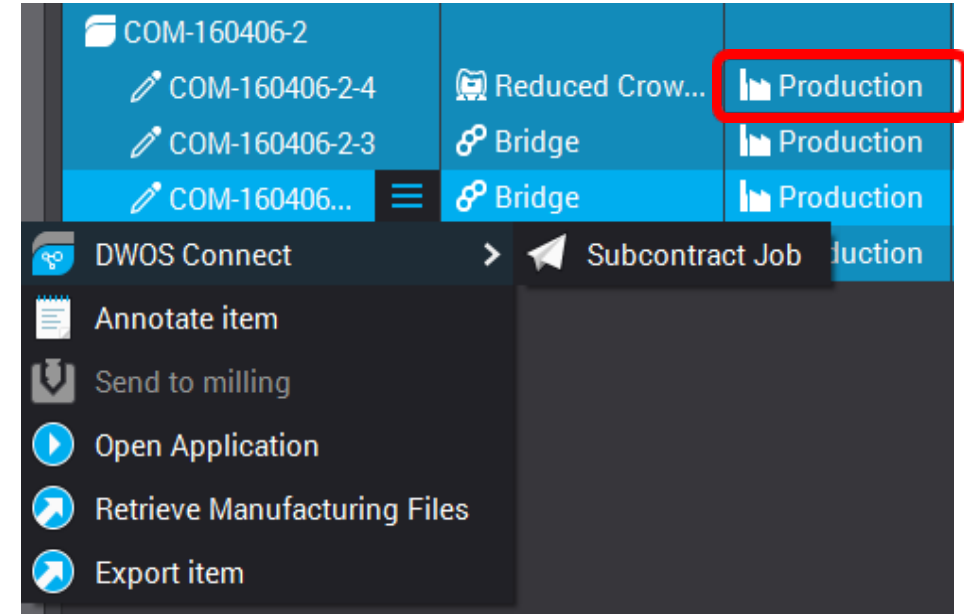
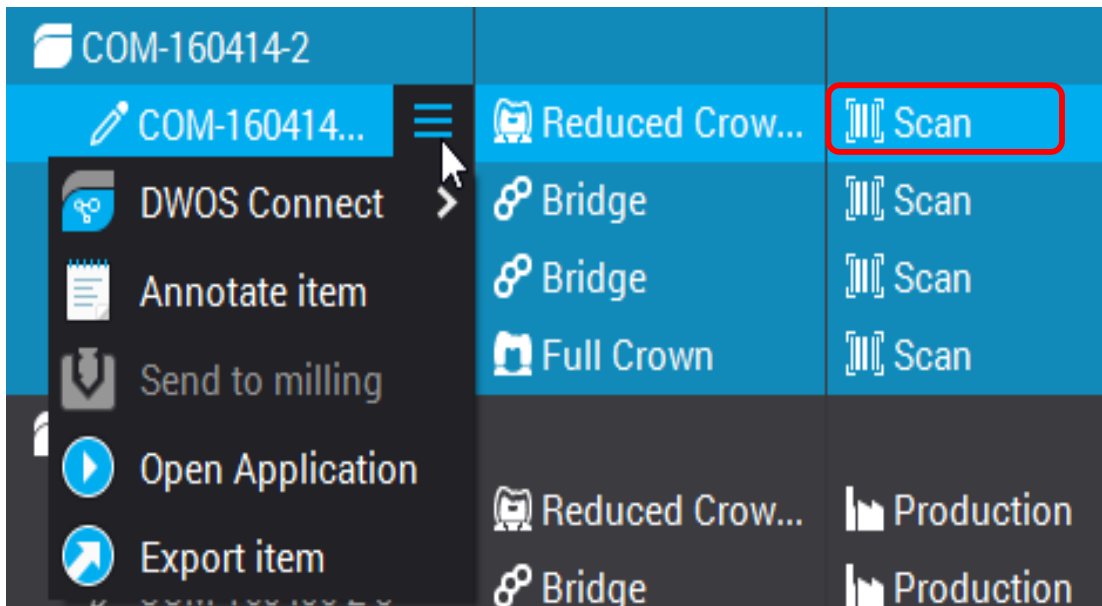
- Orders actions
- Different according to operation step





ADMISTRATIVE APPLICATION

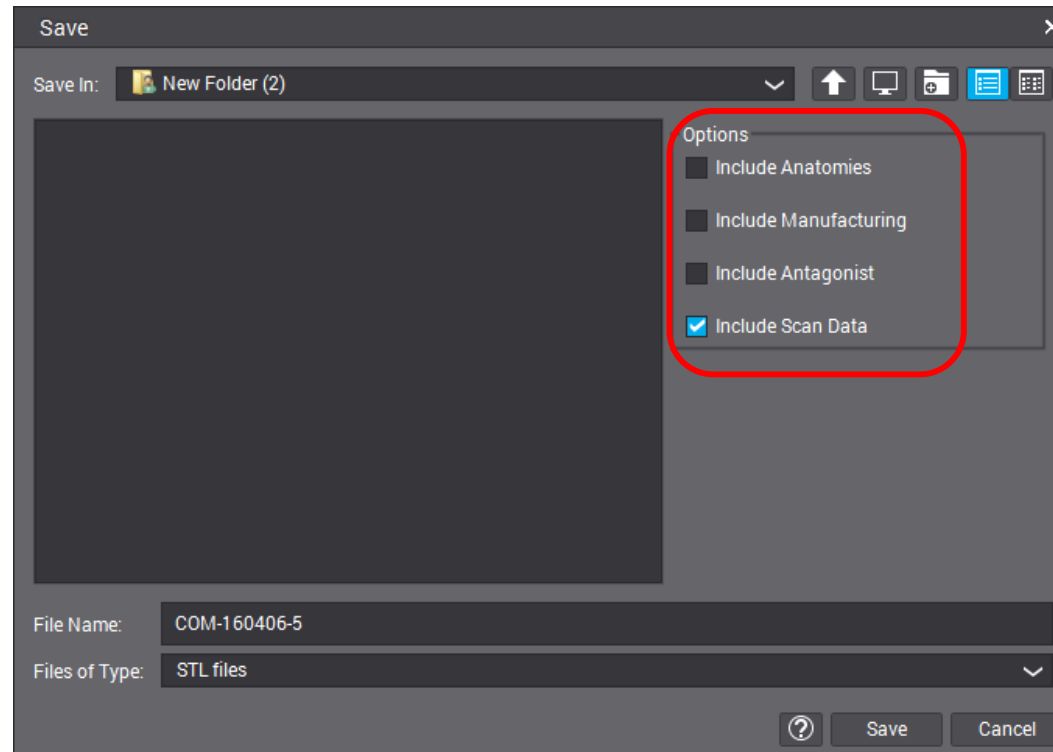
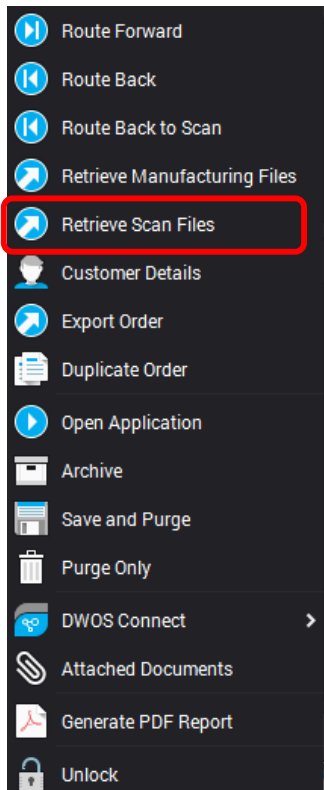
- Items orders actions
- Different according to operation step





ADMISTRATIVE APPLICATION

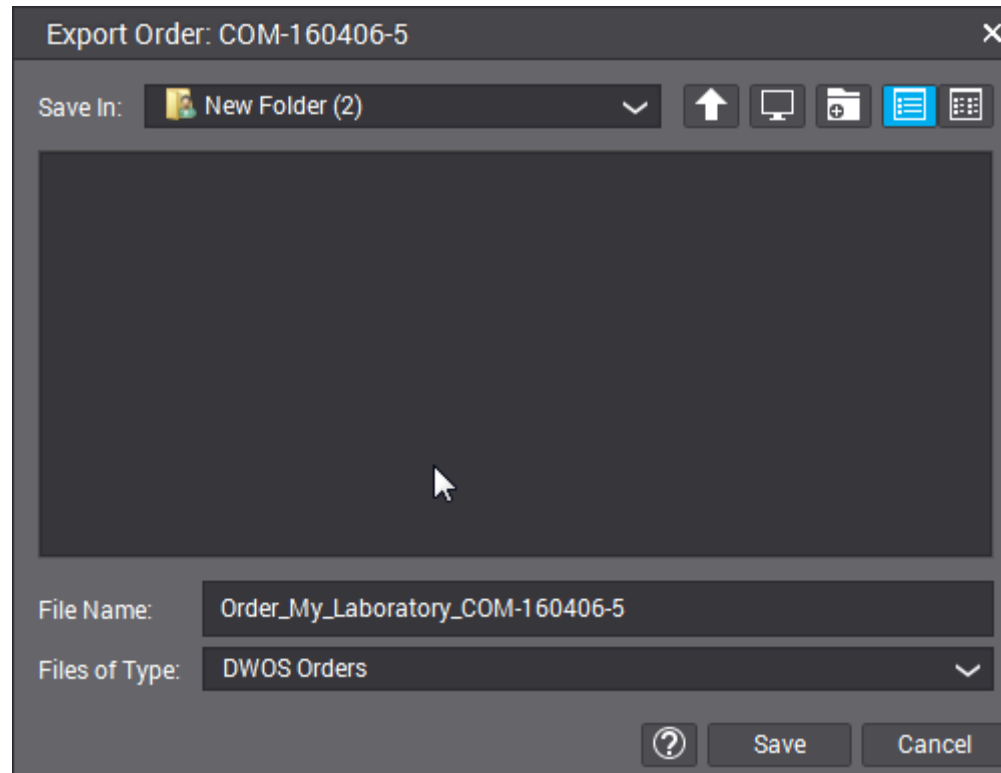
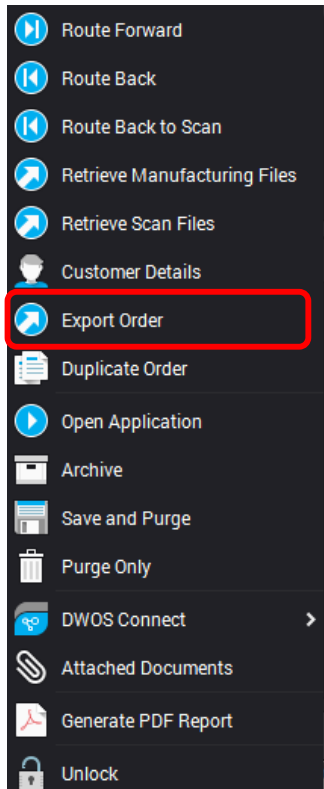
- Retrieve scan files
- Order level
- Data selection





ADMISTRATIVE APPLICATION

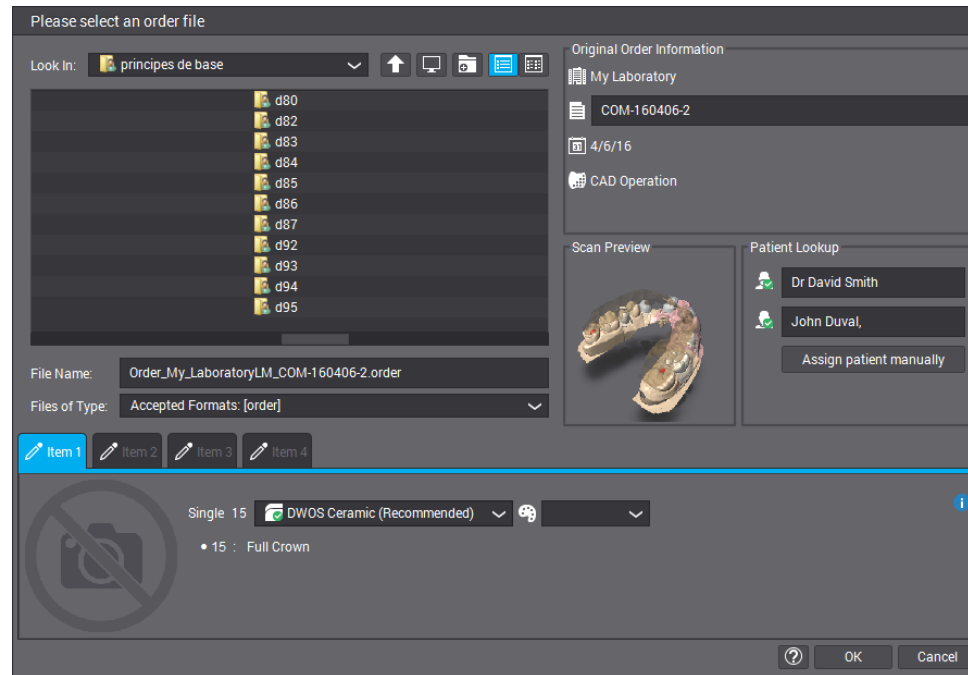
- Export order
- Order level
- All data: clinical + administrative





ADMISTRATIVE APPLICATION

- Import order: DWOS order
third party order
- All data: clinical + administrative






ADMISTRATIVE APPLICATION




- Archive
- Order level
- Remove from current list
- Always accessible



Confirm

 Are you sure you want to archive these orders?

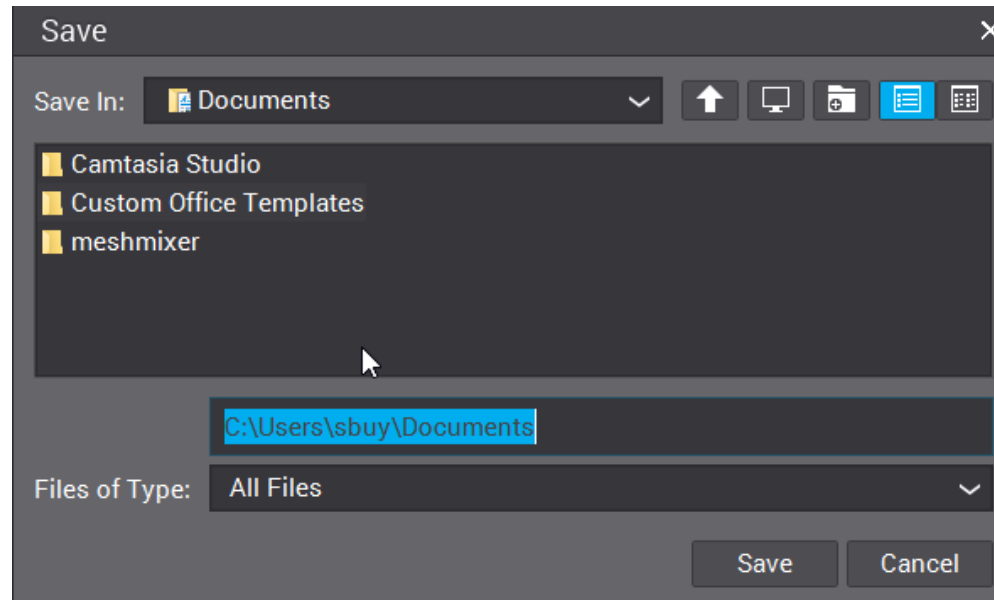
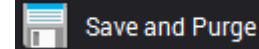


A dark grey dialog box with a title bar "Confirm". The main content area contains a question mark icon followed by the text "Are you sure you want to archive these orders?". At the bottom, there are three buttons: a question mark icon, a "Yes" button, and a "No" button.



ADMISTRATIVE APPLICATION


- Save and purge
- Order level
- Export order & Remove from DWOS system
- Always accessible by Import order





ADMISTRATIVE APPLICATION

- Purge only
- Order level
- Remove from DWOS system
- confirmation

 Purge Only

Confirm



Are you sure you want to completely purge all the archived orders from the database ?
The information will be definitively deleted from the system.

Yes

No



Data is permanently deleted



ADMISTRATIVE APPLICATION

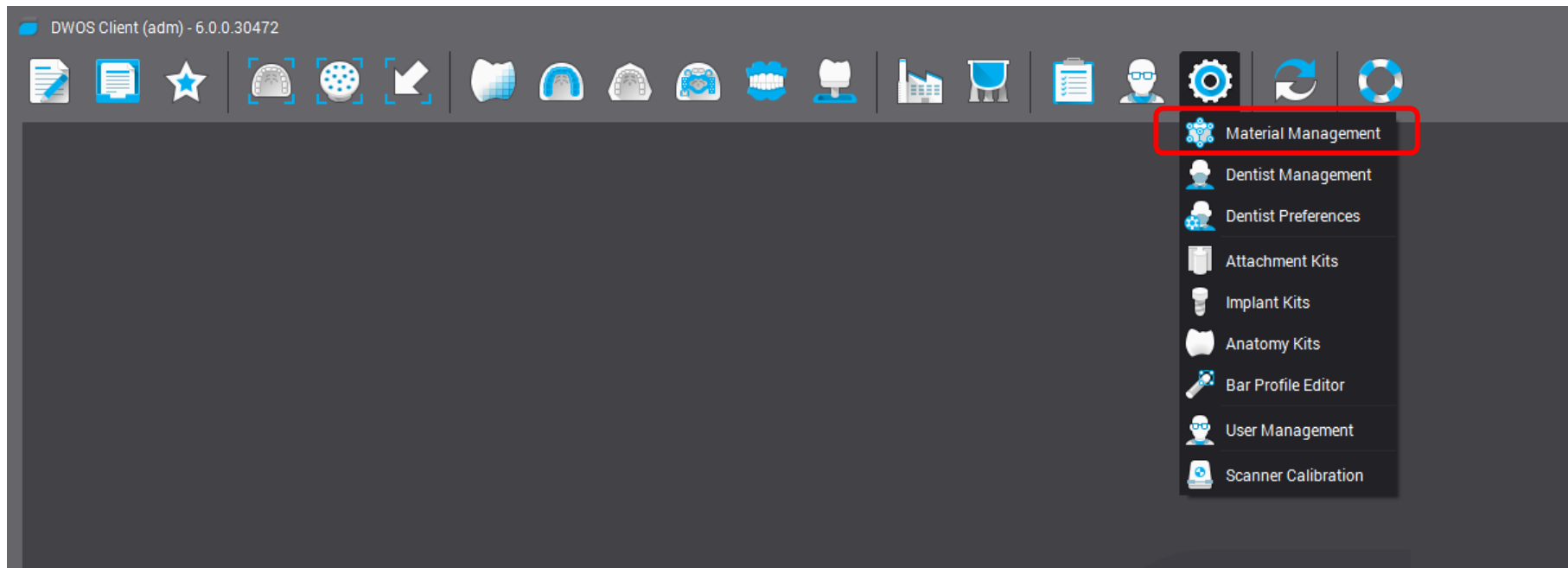
- Help database

The screenshot displays the DWOS Online Help interface. At the top, a dark navigation bar contains various icons, with a circular refresh icon on the far right highlighted by a red square. Below this is a browser window showing the 'DWOS Online Help' page. The page features a 'Table of Content' sidebar on the left with categories like 'Learn by workflow', 'Learn by station', and 'Production management'. The main content area is titled 'Order Management' and includes a clipboard icon, a language selection dropdown, and a list of tasks such as 'Finding an order', 'Importing an order', 'Opening an order', 'Exporting an order', 'Routing an order', 'Archiving an order', 'Order items', and '3D PDF'.



MATERIAL MANAGEMENT

- All the parameters related to material
- Customize for your lab





MATERIAL MANAGEMENT

- Elements available

The screenshot displays a software interface for 'DWOS Ceramic' with the following components:

- Elements Available:** A dropdown menu showing a list of categories: Crowns, Pontics, Inlays, Abutments, Waxings, Diagnostics, and Others. The 'Crowns' category is selected and expanded to show several options with checkboxes:
 - Simple Coping
 - Clinical Coping
 - Simple Coping With Anatomy
 - Reduced Crown
 - Full Crown
 - Telescopic Coping
 - 3/4 Crown
 - Post & Core
 - Full Crown on Post & Core
 - Reduced Crown on Post & Core
 - Infix® Crown
- Units:** A dropdown menu set to '16'.
- Right Panel:** A vertical list of elements with expandable arrows:
 - Virtual Die Spacer
 - Minimum Thickness
 - Inlay/Onlay
 - Adaptation
 - Reduction
 - Overpress
 - Full Denture Parameters
 - Pre Nesting
 - Output Formats
- Bottom Panel:** A horizontal list of elements with expandable arrows:
 - Manufacturing
 - Telescopic
 - Dental Band
 - Custom Abutment
 - Material Display
 - Implants Bar
 - Connectors

The interface also features a status bar at the bottom right with a notification icon, a search icon, a '25%' zoom level indicator, and a trash icon.



MATERIAL MANAGEMENT

- Virtual die spacer



Virtual Die Spacer

Cement Gap	0.03 mm	Extra Vertical Gap	0.08 mm
Extra Horizontal Gap	0.03 mm	Margin Thickness	0.25 mm
Collar Line Position	0.8 mm		
<input checked="" type="checkbox"/> Block Out Undercuts			
<input checked="" type="checkbox"/> Allow Margin CutBack			
Margin Cutback Type	None	Margin Cutback Value	1 mm
<input type="checkbox"/> No Screw Channel			

Prosthesis 46

Insertion Axis | **Coping Parameters** | Reduction Parameters | Prosthesis Type

Coping Parameters

Parameters

<input type="radio"/> Cement Gap	0.03
<input type="radio"/> Extra Vertical Gap	0.08
<input type="radio"/> Extra Horizontal Gap	0.03
<input type="radio"/> Collar Position	0.8
<input type="radio"/> Minimum Thickness	0.5
<input type="radio"/> Margin Thickness	0.25
<input type="radio"/> Emergence Angle	65
<input type="radio"/> Emergence Offset	0.1
<input type="radio"/> Margin Cutback Type	None
<input checked="" type="checkbox"/> Block out undercuts	
<input checked="" type="checkbox"/> Apply tool compensation	

Reset Set as default ? OK Cancel



MATERIAL MANAGEMENT

- manufacturing

Manufacturing

Cylinder Radius	Elliptic Vertical
0 mm	0.6 mm
Elliptic Radial	Additional Vertical
0.6 mm	0.1 mm

Apply Tool Compensation

Compensation On Whole Surface

Enforce 3-Axis Milling

Allow 3.5 Axis Milling

Max Angle between telescopic and insertion axes	Max Angle between insertion axes
20 °	20 °

Merge Surfaces

Max Attachments

2

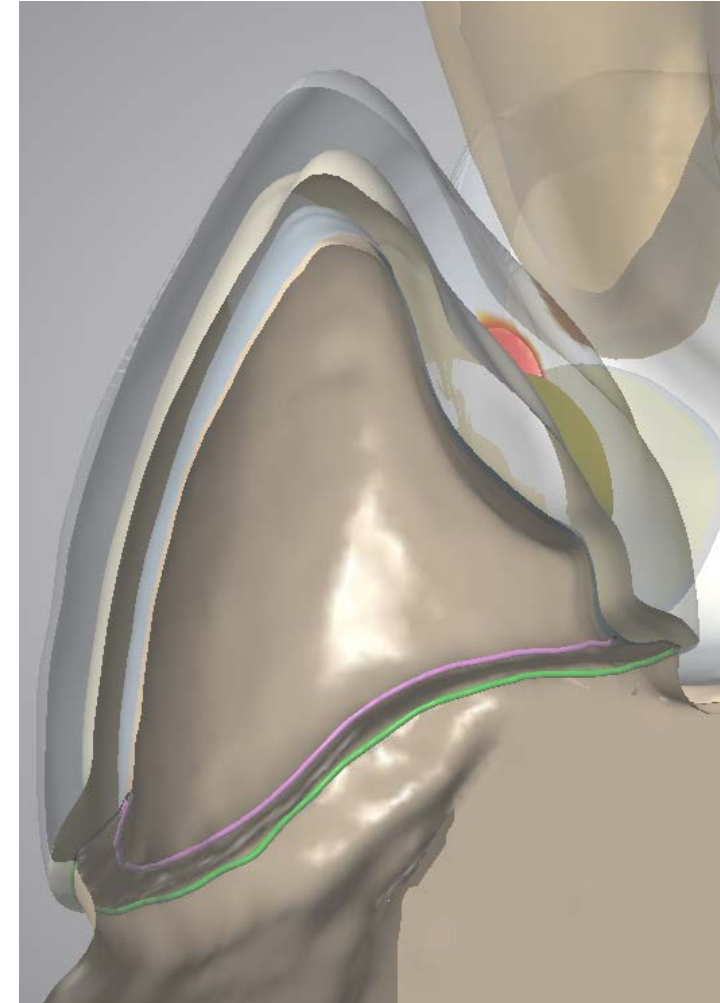
Apply Overlay Surface Compensation

Inner Compensation Tool Radius	Outer Compensation Tool Radius
0.5 mm	0.5 mm

Compensation Distance

-1 mm

?





MATERIAL MANAGEMENT



Minimum thickness

Prosthesis 11

Insertion Axis | **Coping Parameters** | Reduction Parameters | Prosthesis Type

Coping Parameters

Parameters

- 1 Cement Gap 0.03
- 2 Extra Vertical Gap 0.08
- 3 Extra Horizontal Gap 0.03
- 4 Collar Position 0.8
- 5 Minimum Thickness 0.5**
- 6 Margin Thickness 0.25
- 7 Emergence Angle 65
- 8 Emergence Offset 0.1
- Margin Cutback Type None

Block out undercuts
 Apply tool compensation

Reset Set as default ? OK Cancel

Minimum Thickness

Emergence Offset

0.1 mm

Emergence Angle

65 °

Minimum Thickness

0.5 mm

Smooth Distance

0.5 mm

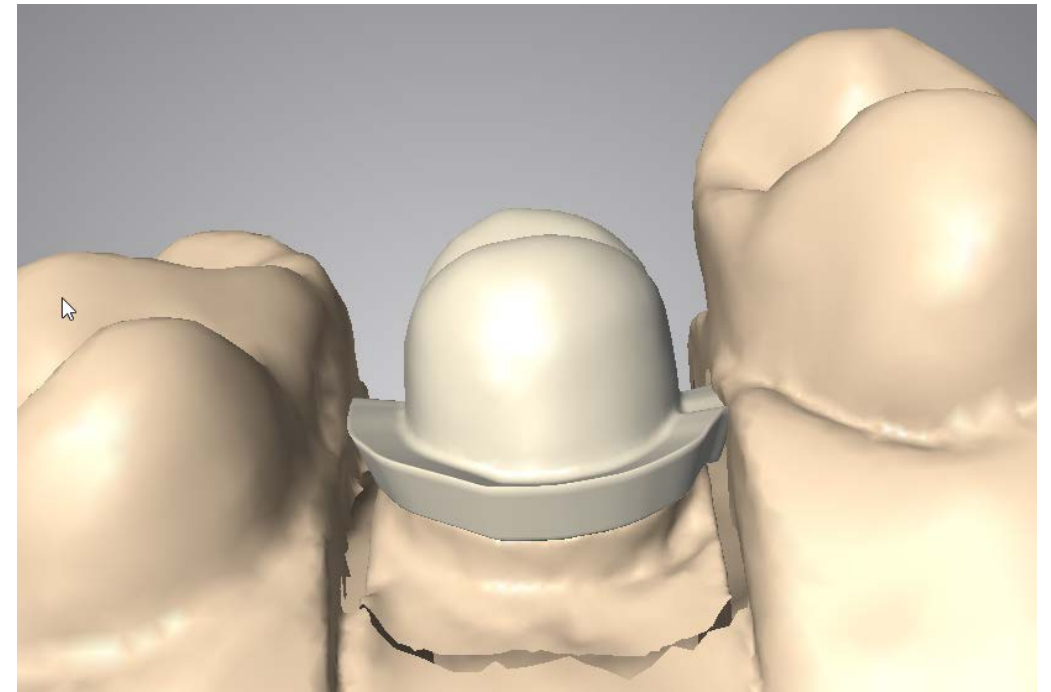
Control Angle with Normal



MATERIAL MANAGEMENT



- Dental band



Dental Band

Height	1 mm	Start Angle	180 °
End Angle	360 °	Emergence Angle	65 °
Minimum Thickness	0.1 mm	External Surface Offset	0.05 mm
Transition Angle	10 °		

Use Straight Transition

Allow Dental Band



MATERIAL MANAGEMENT

- Adaptation



Adaptation

Occlusion Thickness	Diastema Value
0.1 mm	0.015 mm

Gingiva Spacing

0.02 mm

- Use Contact Area
- Auto Fill Gap
- Automatic Gingiva Correction
- Apply Anatomy Precompensation

Adaptation Environment

Reference Points

- Auto Type
- Marginal Ridges
- Cusps
- Fossas
- Contact Points
- Equator points

Clear all points

Adapt anatomy

artegal® BM

Adapt anatomy

Contact Points

Diastema Value (mm) 0.015

Use Contact Area

Auto Fill Gap

Project Proximal Areas

Occlusion

Go To Contact

Occlusion method

- Abrasive
- Smooth

Options

Occlusion Thickness (mm) 0.1

Adjust occlusion

← → ? OK Cancel



MATERIAL MANAGEMENT



- Reduction

Prosthesis 13

Insertion Axis | Coping Parameters | **Reduction Parameters** | Prosthesis Type

Reduction Parameters

Parameters

1 Occlusal Reduction 1 mm

2 Cusp Reduction

- Mesial 1.5 mm
- Buccal 1 mm
- Distal 1.5 mm
- Lingual 1 mm

3 Equator Reduction

- Mesial 1 mm
- Buccal 1 mm
- Distal 1 mm
- Lingual 1 mm

Reset Set as default ? OK Cancel

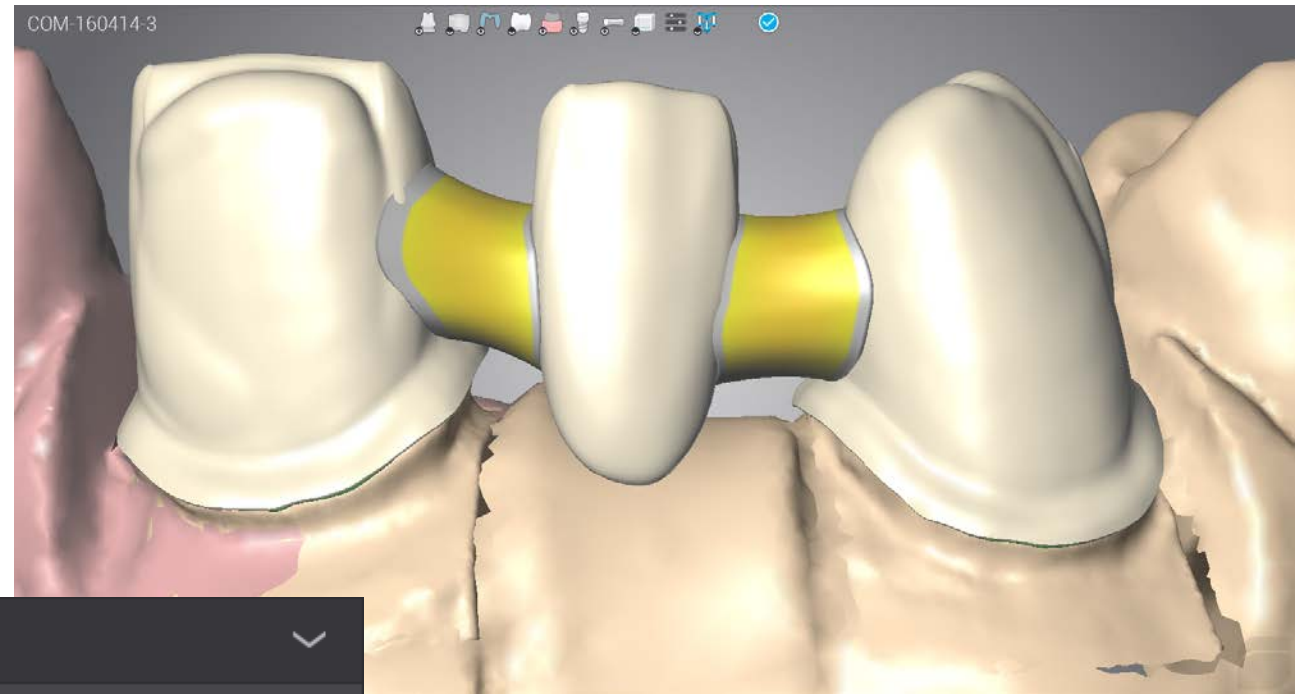
Reduction	
Reduction Occlusal	Reduction CUSP Mesial
1 mm	1.5 mm
Reduction CUSP Buccal	Reduction CUSP Distal
1 mm	1.5 mm
Reduction CUSP Lingual	Reduction Equator Mesial
1 mm	1 mm
Reduction Equator Buccal	Reduction Equator Distal
1 mm	1 mm
Reduction Equator Lingual	Reduction Cervical
1 mm	0.5 mm



MATERIAL MANAGEMENT



- Connectors



Connectors

Edit Shapes

Default Anterior Shape:

Default Shape

Use natural connectors

Maximum Area	Minimum Area
10 mm ²	9 mm ²

Default Posterior Shape:

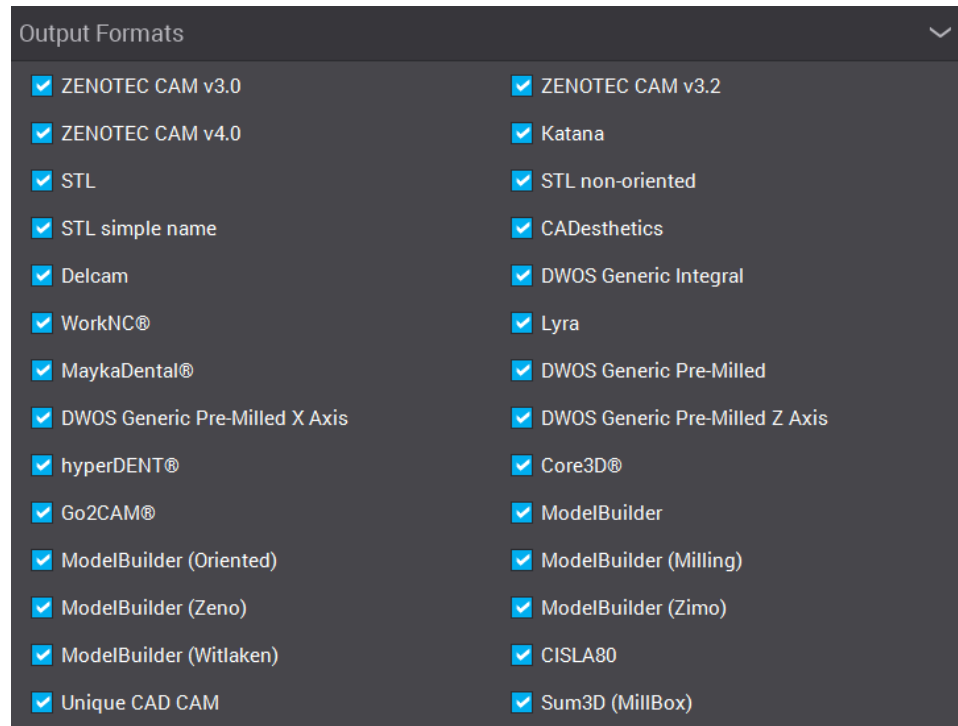
Default Shape

Maximum Area	Minimum Area
10 mm ²	9 mm ²



MATERIAL MANAGEMENT

- Output formats

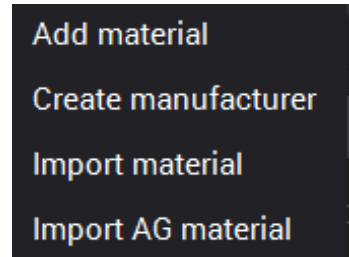
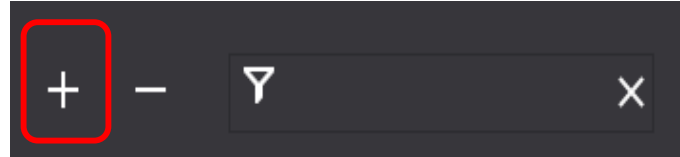


In relation with manufacturing solution

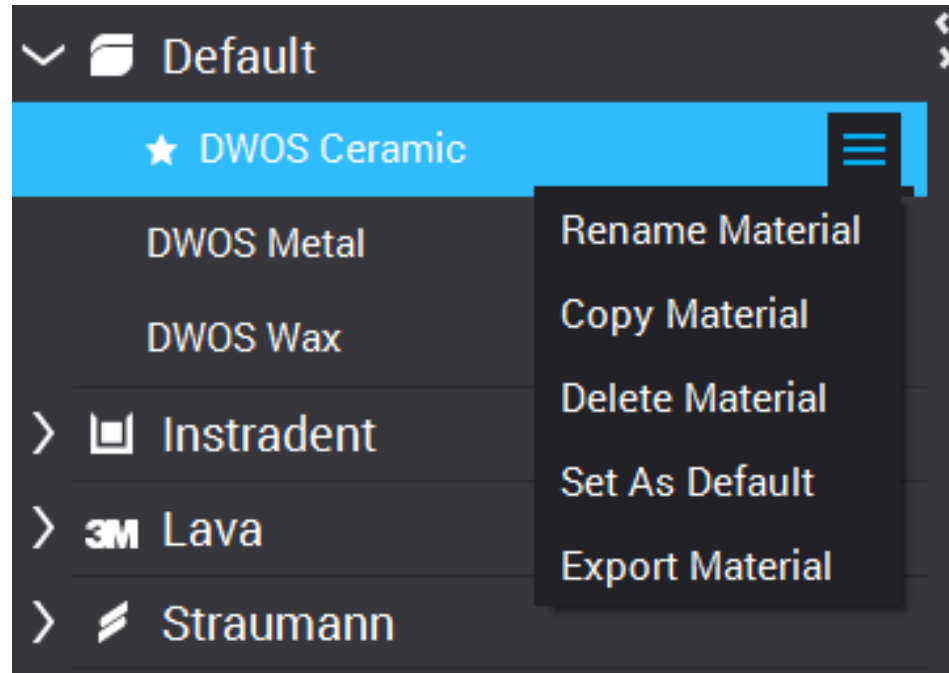


MATERIAL MANAGEMENT

- Add new material



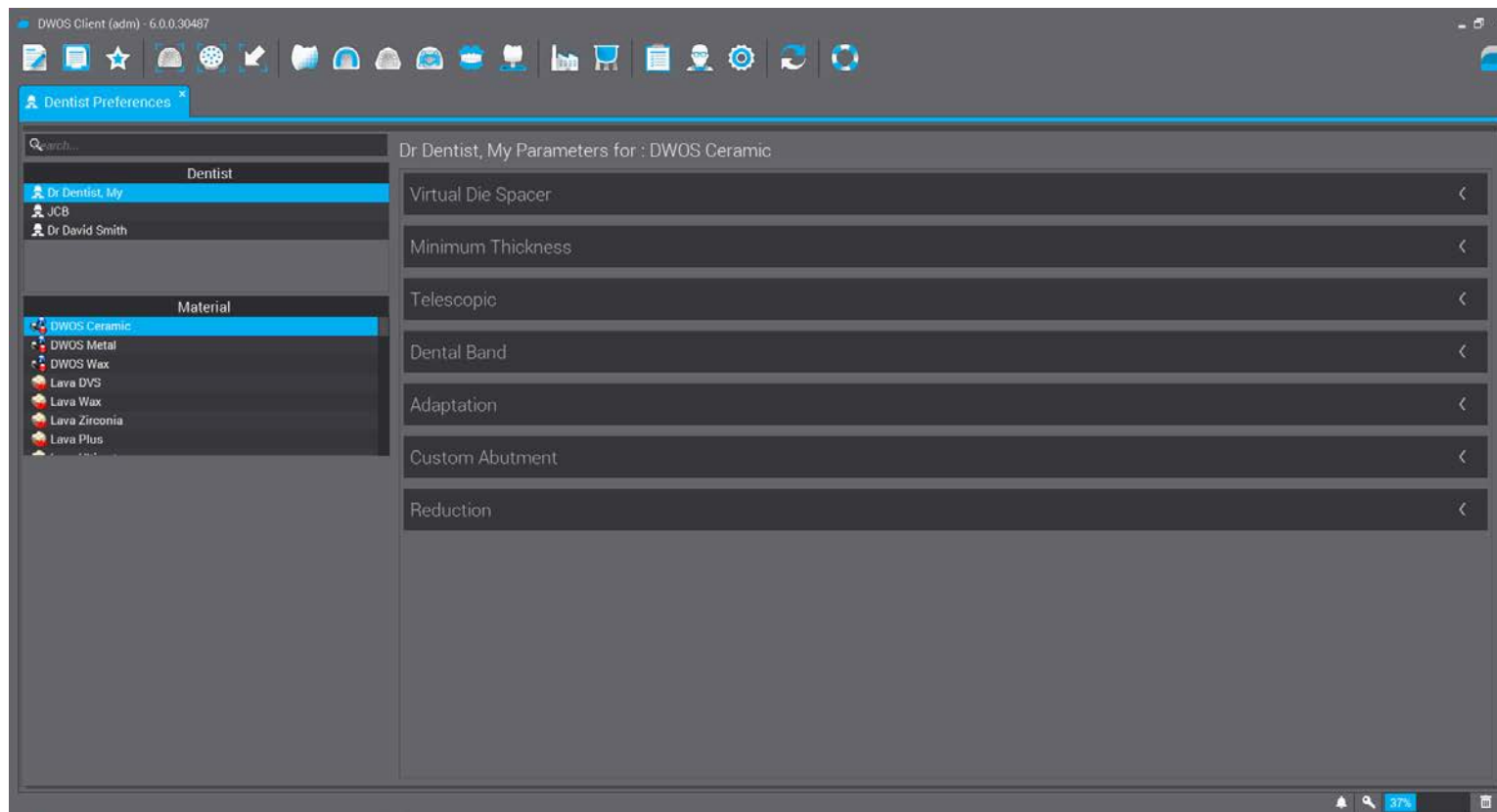
- Coping existing material





DENTIST PREFERNCES

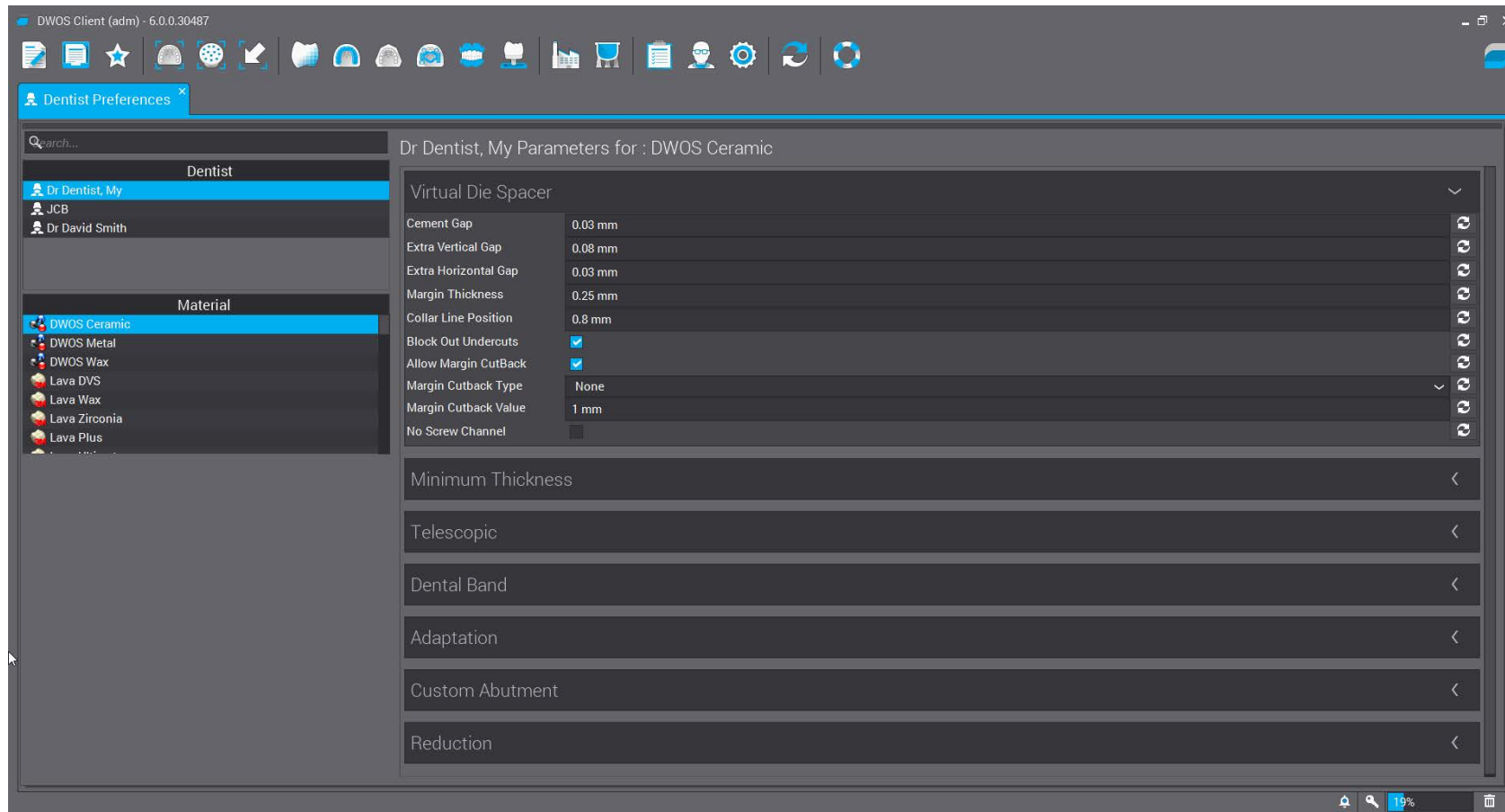
- Customize per dentist
- Supersede material parameter





DENTIST PREFERNCES

- Organization similar to material





DENTIST MANAGEMENT

- Organize dentist

DWOS Client (adm) - 6.0.0.30487

Dentist Management

Customers

- Dr David Smith
- Dr Dentist, My**
- JCB

Dr Dentist, My

Patient	First name	Last name
Patient, My	My	Patient

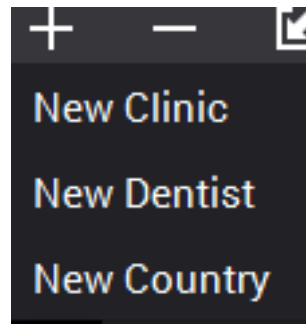
+ -

18%



DENTIST MANAGEMENT

- Country
- Clinic or unaffiliated
- Search
- Add



Edit Info : Dentist

Identification Billing Shipping Preferences

Customer ID
DEN-160414-185356

Name
Dentist

Contact name

Street line 1
No.

Street line 2

City

Country

CC

State

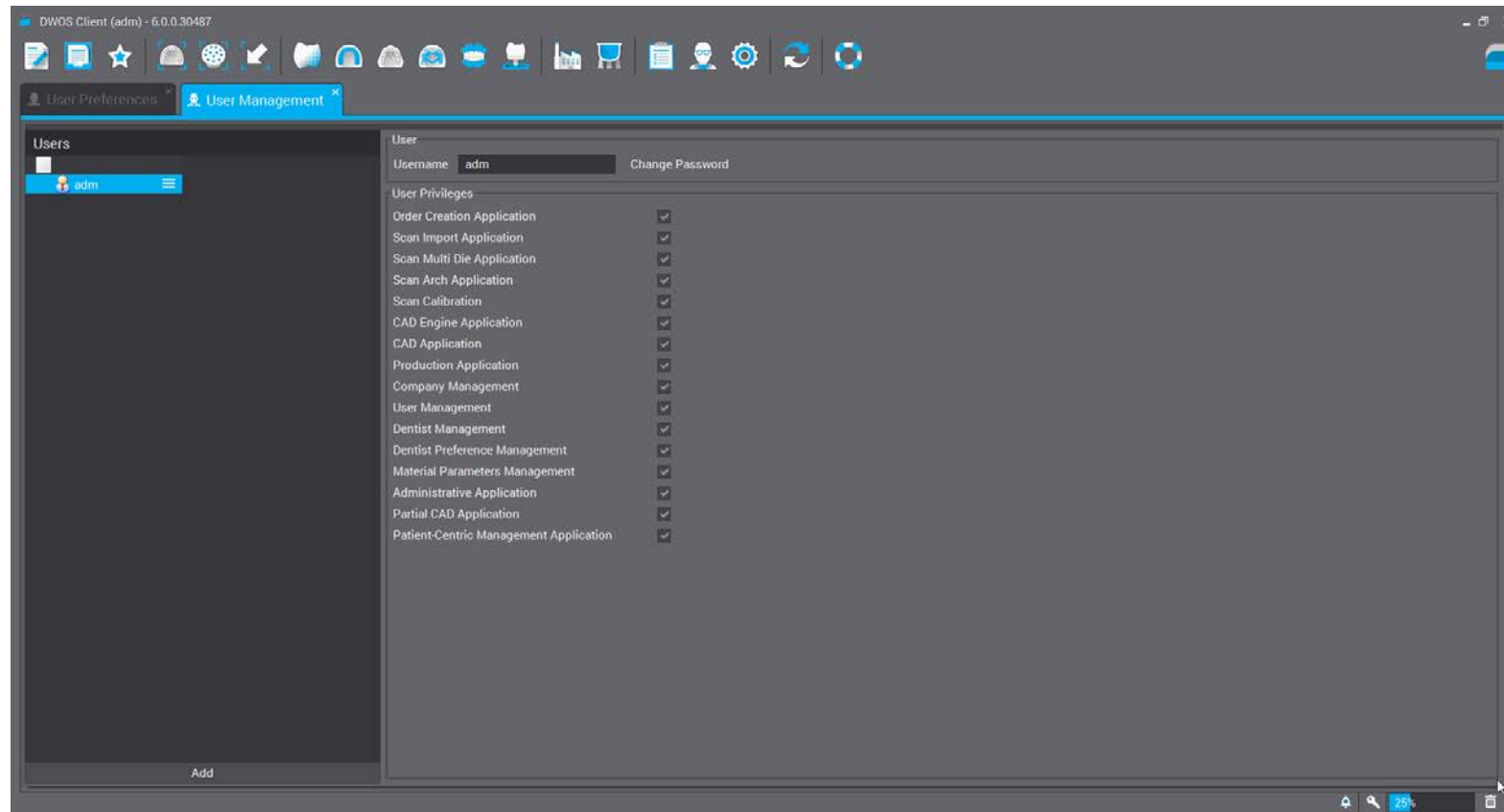
Zip/Postal code

OK Cancel



USER MANAGEMENT

- Manage user account
- Define rights of use

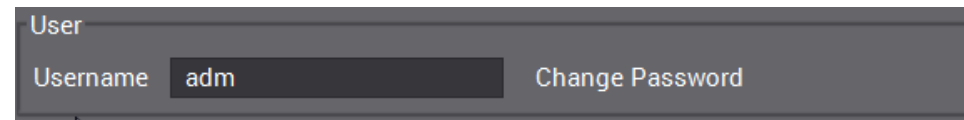
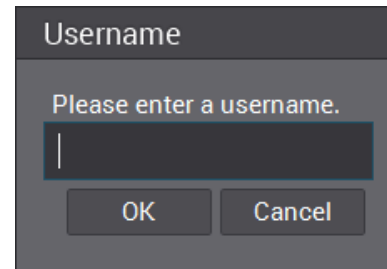
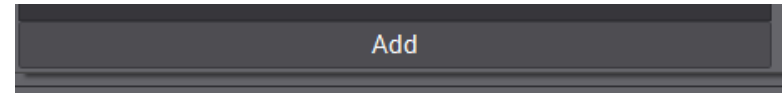




USER MANAGEMENT



- User creation
- Username
- password





USER MANAGEMENT

- Privilege

User

Username [Change Password](#)

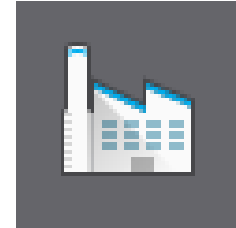
User Privileges

Order Creation Application	<input checked="" type="checkbox"/>
Scan Import Application	<input checked="" type="checkbox"/>
Scan Multi Die Application	<input checked="" type="checkbox"/>
Scan Arch Application	<input checked="" type="checkbox"/>
Scan Calibration	<input checked="" type="checkbox"/>
CAD Engine Application	<input checked="" type="checkbox"/>
CAD Application	<input checked="" type="checkbox"/>
Production Application	<input checked="" type="checkbox"/>
Company Management	<input checked="" type="checkbox"/>
User Management	<input checked="" type="checkbox"/>
Dentist Management	<input checked="" type="checkbox"/>
Dentist Preference Management	<input checked="" type="checkbox"/>
Material Parameters Management	<input checked="" type="checkbox"/>
Administrative Application	<input checked="" type="checkbox"/>
Partial CAD Application	<input checked="" type="checkbox"/>
Patient-Centric Management Application	<input checked="" type="checkbox"/>



PRODUCTION MANAGEMENT

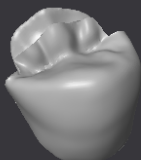
- Define production flow
- Local or subcontract (DHS)



DWOS Client (adm) - 6.0.0.30487

Production Management | Order Management

Orders	Status	Remote ID	Remote St...	Customer	Patient	Product	Impla...	Prosthesis T...	Creation
COM-160406-2				Dr David S...	John Duval,				4/14/16 8:48
COM-160406-2-1	<input checked="" type="checkbox"/>	?				DWOS Ceramic		3/4 Crown	4/14/16 8:48
COM-160406-2-2	<input checked="" type="checkbox"/>	?				DWOS Ceramic		Bridge	4/14/16 8:48
COM-160406-2-3	<input checked="" type="checkbox"/>	?				DWOS Ceramic		Bridge	4/14/16 8:48
COM-160406-2-4	<input checked="" type="checkbox"/>	?				DWOS Ceramic	Variob...	Reduced Crow...	4/14/16 8:48

Preview: 

Comments: No comment

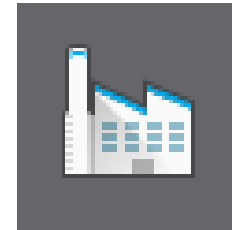
Files: [Empty]

23%



PRODUCTION MANAGEMENT

- Actions at order and item levels
- If local production



COM-160406-2				Dr David S...	John Duval,				4/14/16 8:48
Subcontract Job	<input checked="" type="checkbox"/>					DWOS Ceramic		3/4 Crown	4/14/16 8:48
Local Production	<input checked="" type="checkbox"/>					DWOS Ceramic		Bridge	4/14/16 8:48
Customer Details	<input checked="" type="checkbox"/>					DWOS Ceramic		Bridge	4/14/16 8:48
COM-160406-2-4	<input checked="" type="checkbox"/>					DWOS Ceramic	Variob...	Reduced Crow...	4/14/16 8:48

Orders	Status	Remote ID	Remote St...	Customer	Patient	Product	Impla...	Prosthesis T...	Creation Date	Tooth	Tooth Color	Qc
COM-160406-2				Dr David S...	John Duval,				4/14/16 8:48 AM			
COM-160406...	<input checked="" type="checkbox"/>	In House				DWOS Ceramic		3/4 Crown	4/14/16 8:48 AM	15		
Retrieve Manufacturing Files	<input checked="" type="checkbox"/>	In House				DWOS Ceramic		Bridge	4/14/16 8:48 AM	13, 12, 11		
Order Item Production Finished	<input checked="" type="checkbox"/>	In House				DWOS Ceramic		Bridge	4/14/16 8:48 AM	24, 25, 26		
Cancel In House Production	<input checked="" type="checkbox"/>	In House				DWOS Ceramic	Variob...	Reduced Crow...	4/14/16 8:48 AM	22		
Preview Model	<input checked="" type="checkbox"/>											

Please choos...g file type. ✕

Please choose a manufacturing file type.

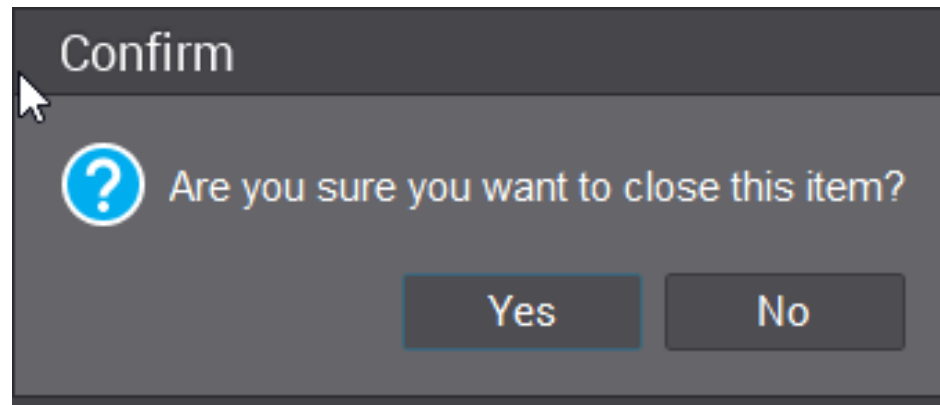
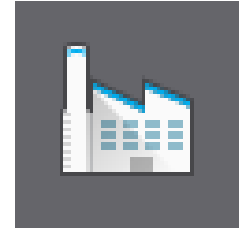
- STL
- ZENOTEC CAM v3.0
- ZENOTEC CAM v4.0
- STL simple name
- Delcam
- WorkNC®
- MaykaDental®
- hyperDENT®
- Go2CAM®
- Unique CAD CAM
- ZENOTEC CAM v3.2
- Katana
- STL non-oriented
- CADesthetics
- Lyra
- Core3D®
- CISLA80
- Sum3D (MillBox)

?
OK
Cancel



PRODUCTION MANAGEMENT

- Items levels
- When local production done





IMPORT SCAN FILES



- Import STL data



DWOS Client (adm) - 6.0.0.30487





IMPORT SCAN FILES

- Create order before importing



The screenshot displays the DWOS Client software interface. The title bar reads "DWOS Client (adm) - 6.0.0.30472". The main window is titled "Order Creation" and shows the "CNB & IMPLANTS ORDER" form. The form fields include:

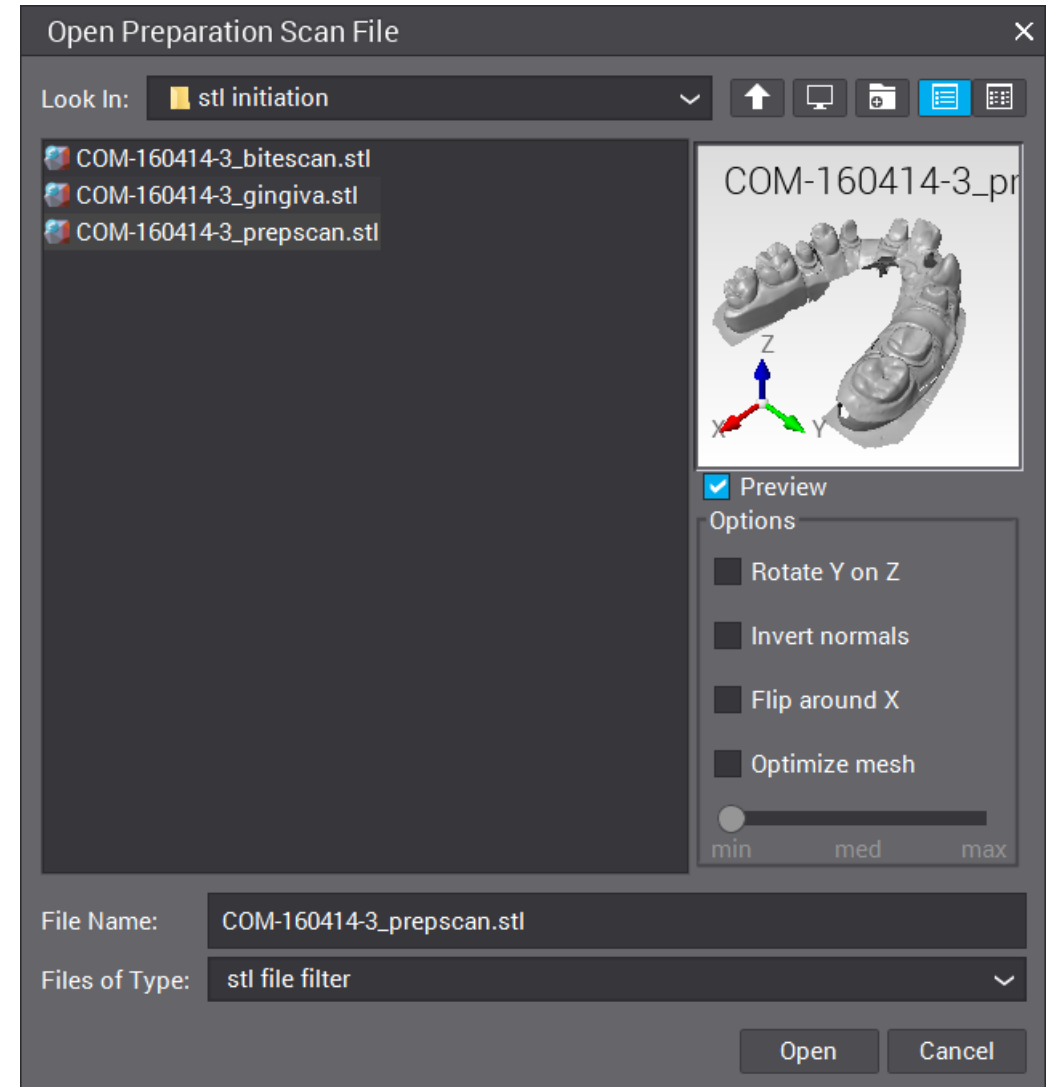
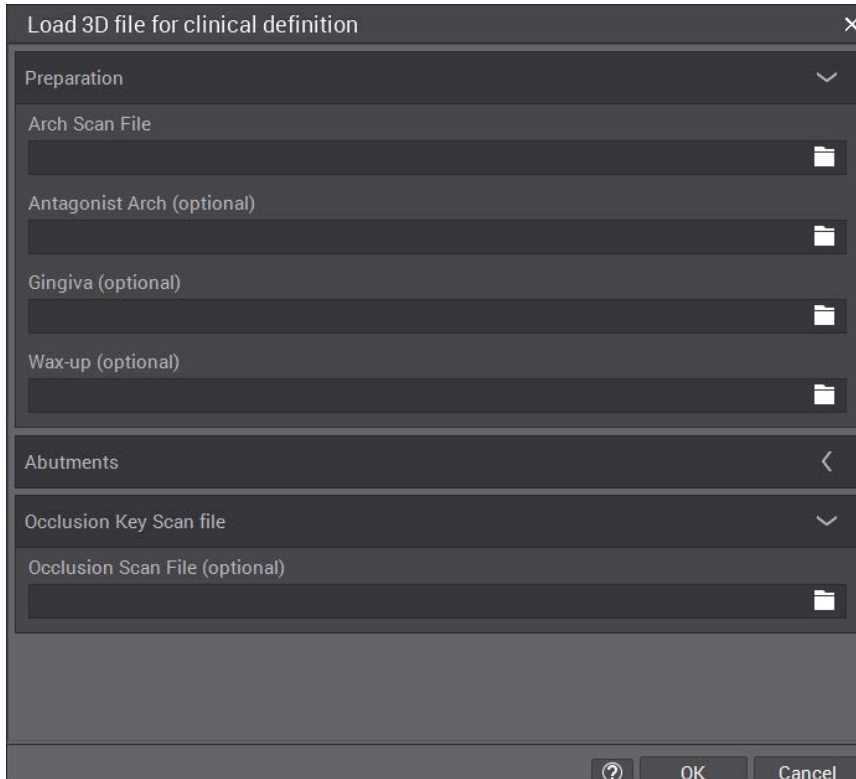
- Order ID: COM-160405-4
- Dentist: Dr David Smith
- Patient: John Duval
- Prosthesis Family: Crowns
- Material: DWOS Ceramic
- Color: [dropdown]
- Prosthesis Styletype: Simple Coping
- Anatomy Family: DW Kit

At the bottom of the form are buttons for "Create Bridge", "Create Bar", "Undo Bridge", "Cancel Order", "Route Order", and "Route and Follow". The central area shows a 3D dental model with teeth numbered 1-32. The right panel shows "Base Layer" and "Single (15) - DWOS Ceramic" with a sub-item "15: Simple Coping, DW Kit". The bottom status bar shows "Attached Documents" and a 5% zoom level.



IMPORT SCAN FILES

- Import scan files






IMPORT SCAN FILES



- Orientate data

Question

 Do you want to adjust current case's main vertical axis?

Yes

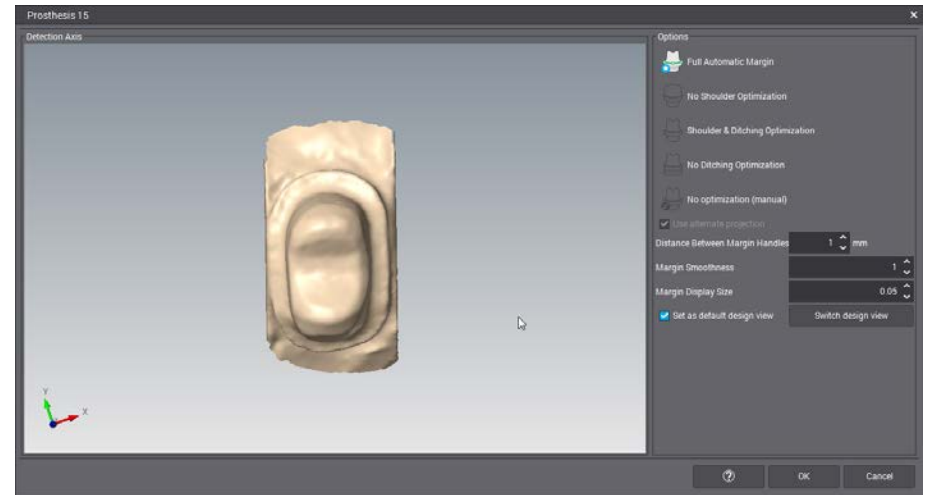
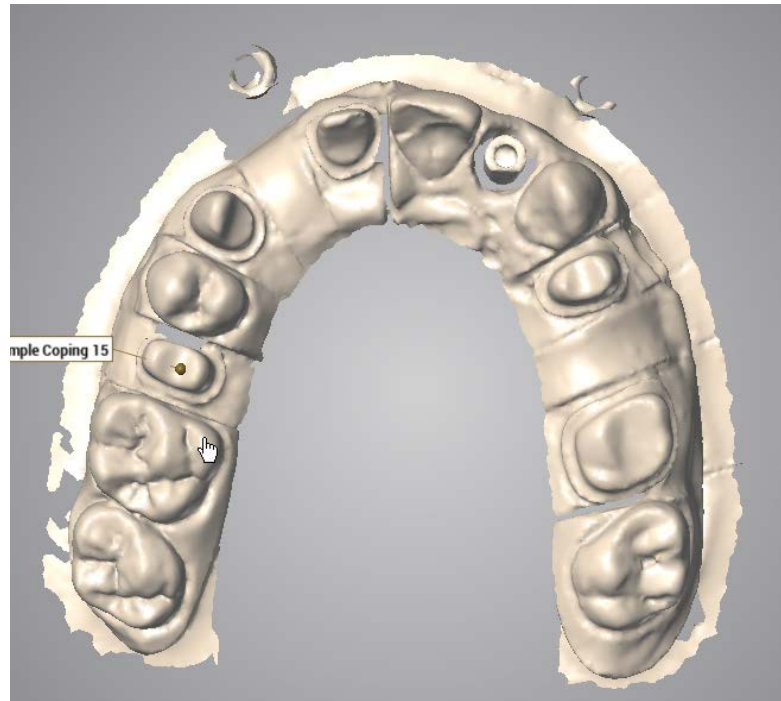
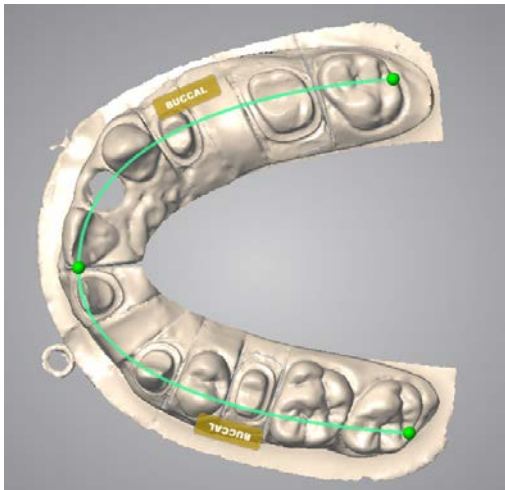
No





IMPORT SCAN FILES

- Define area of interest
- Tooth assignment
- Margin



ARCH SCAN 5

SCAN WITH BRIDGE PREPARATION
& WAX-UP

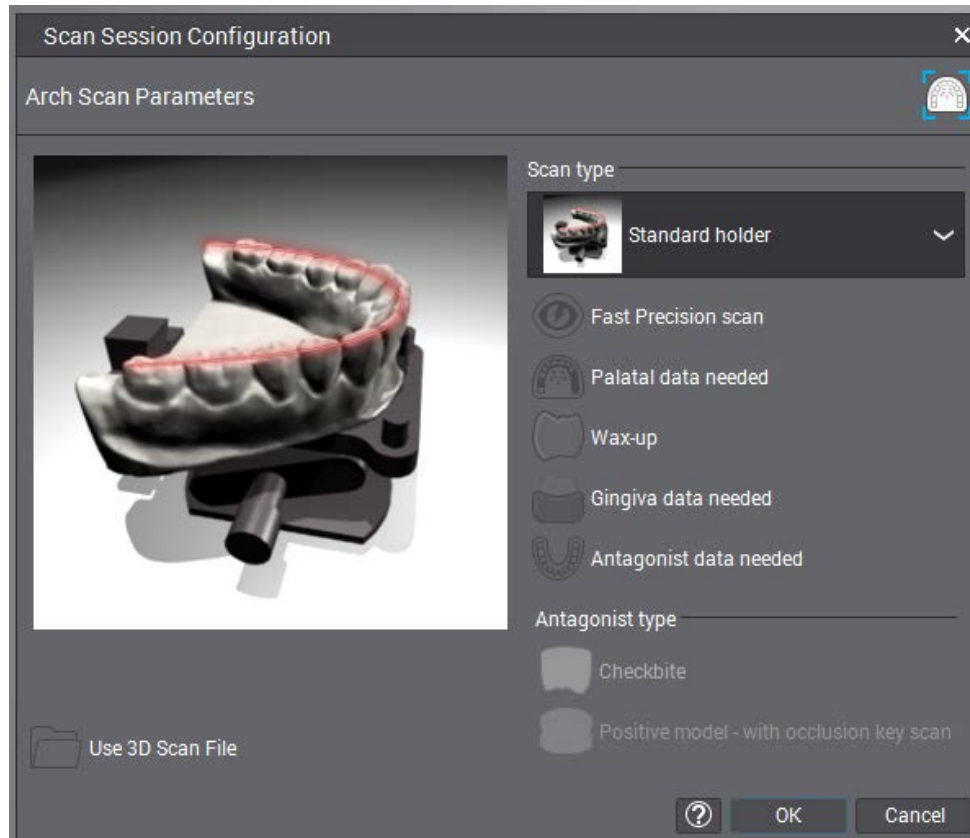
LOAD STL FILE





ARCH SCAN 5: START

- Standard holder
- First assistant selection

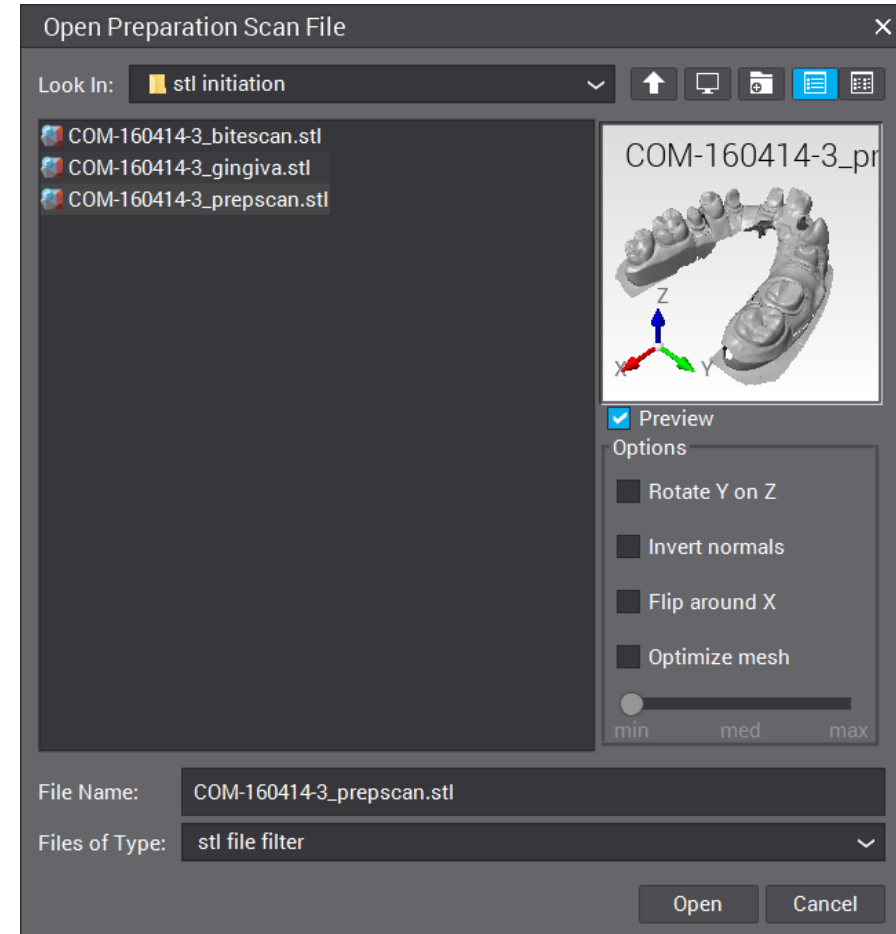




ARCH SCAN 5: USE 3D FILE



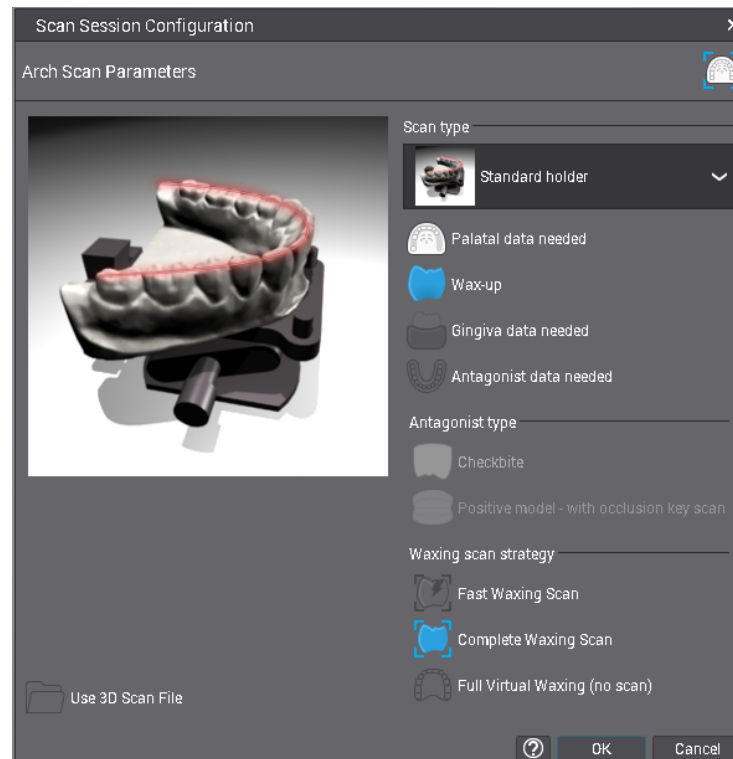
- Standard holder
- First assistant selection
- Use 3D scan file





ARCH SCAN 5: WAX-UP

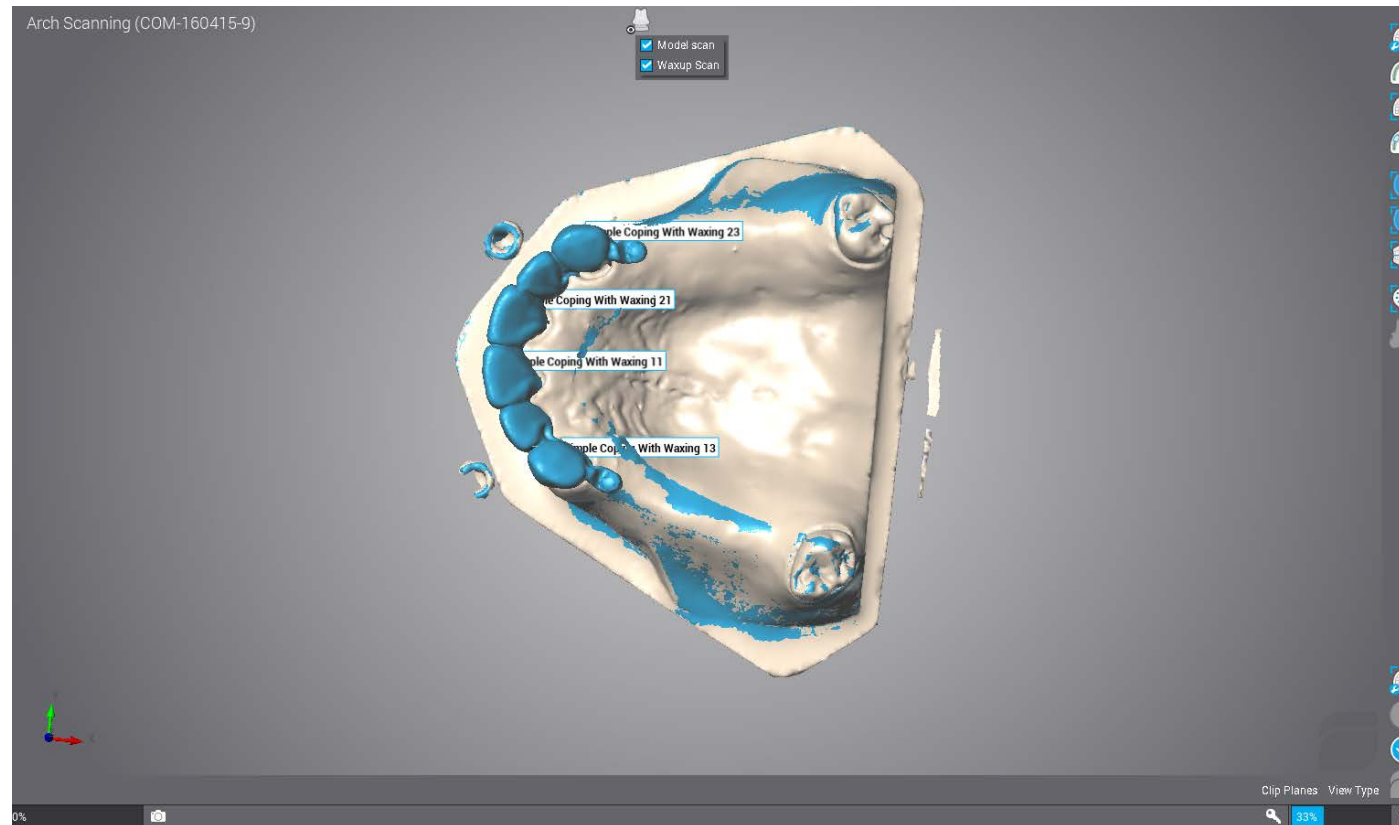
- Orient, define area of interest & assign tooth # as usual
- Wax-up installation requested





ARCH SCAN 5: WAX-UP

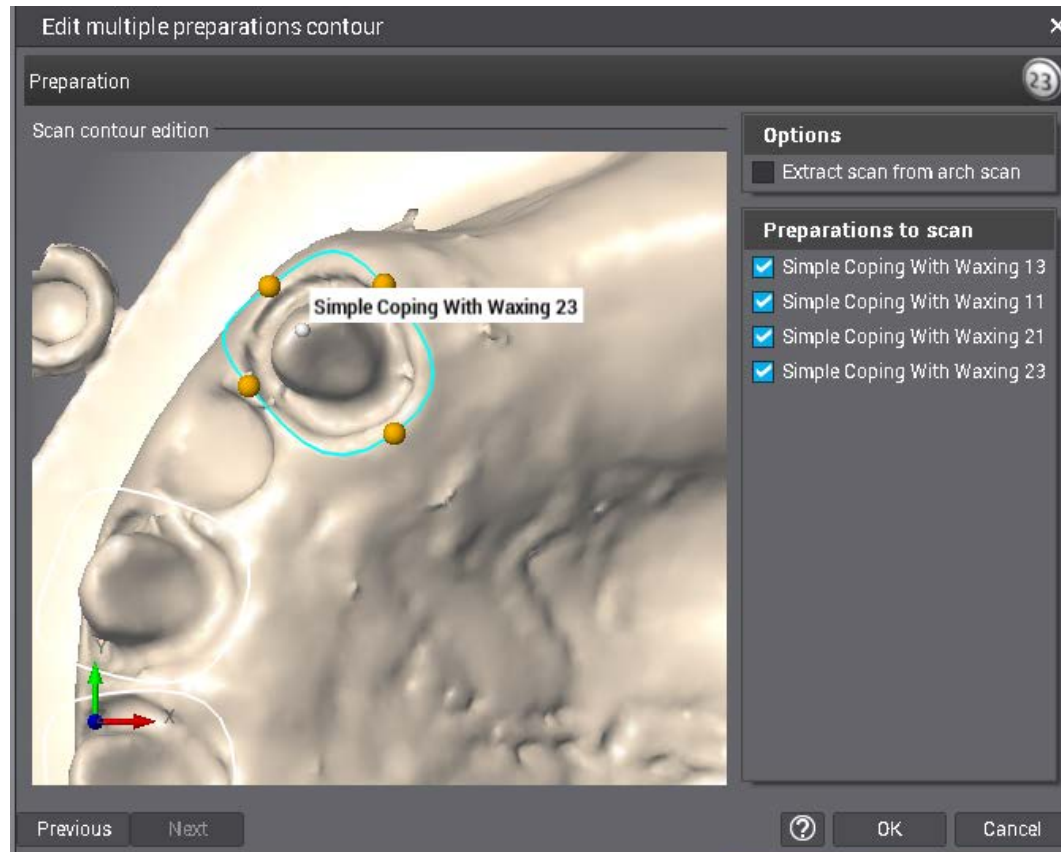
- Display
- Usual tools





ARCH SCAN 5: PRECISE SCAN OF DIE

- Precise scan of die
- Margin as usual



CAD 5

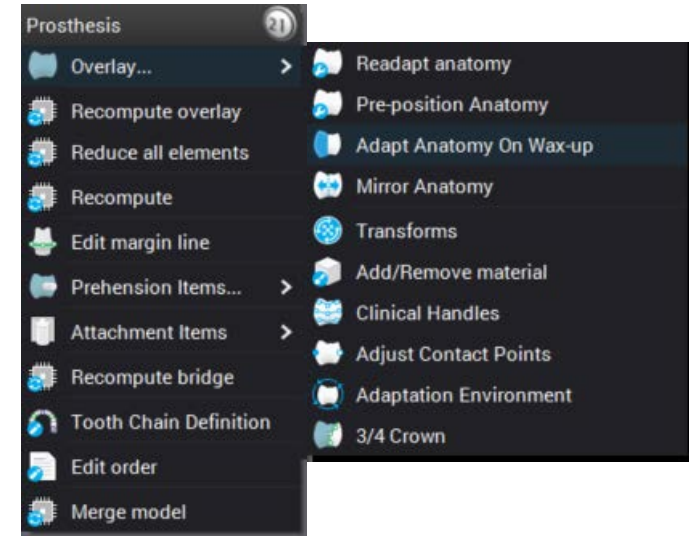
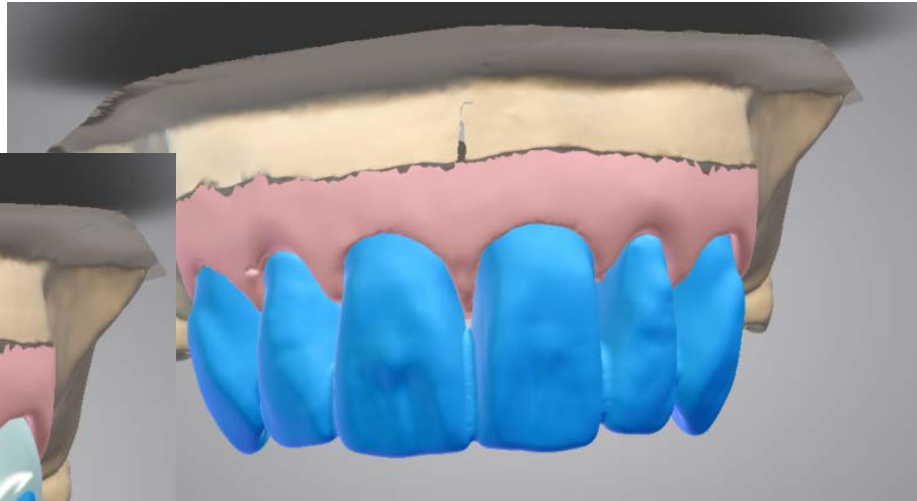
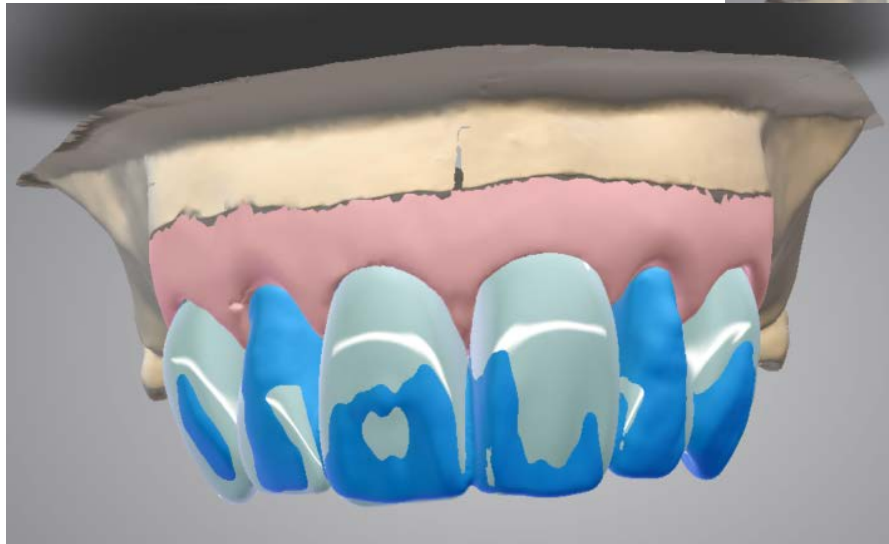
WAX-UP ADAPTATION-SCAN 5





CAD 5: INTRODUCTION

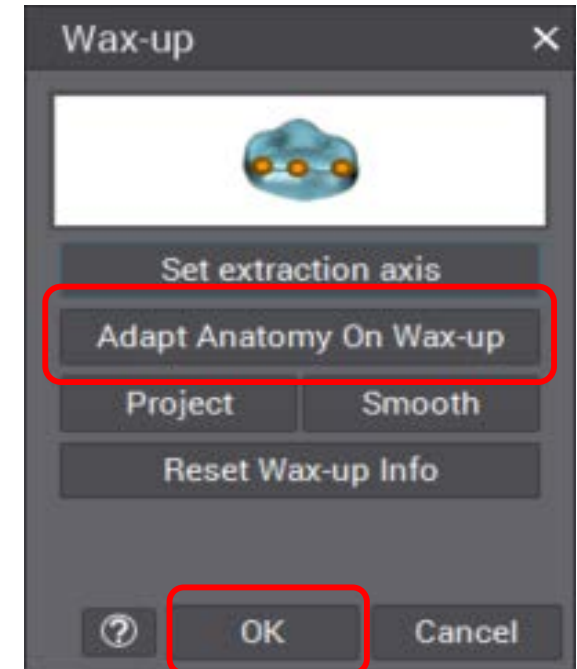
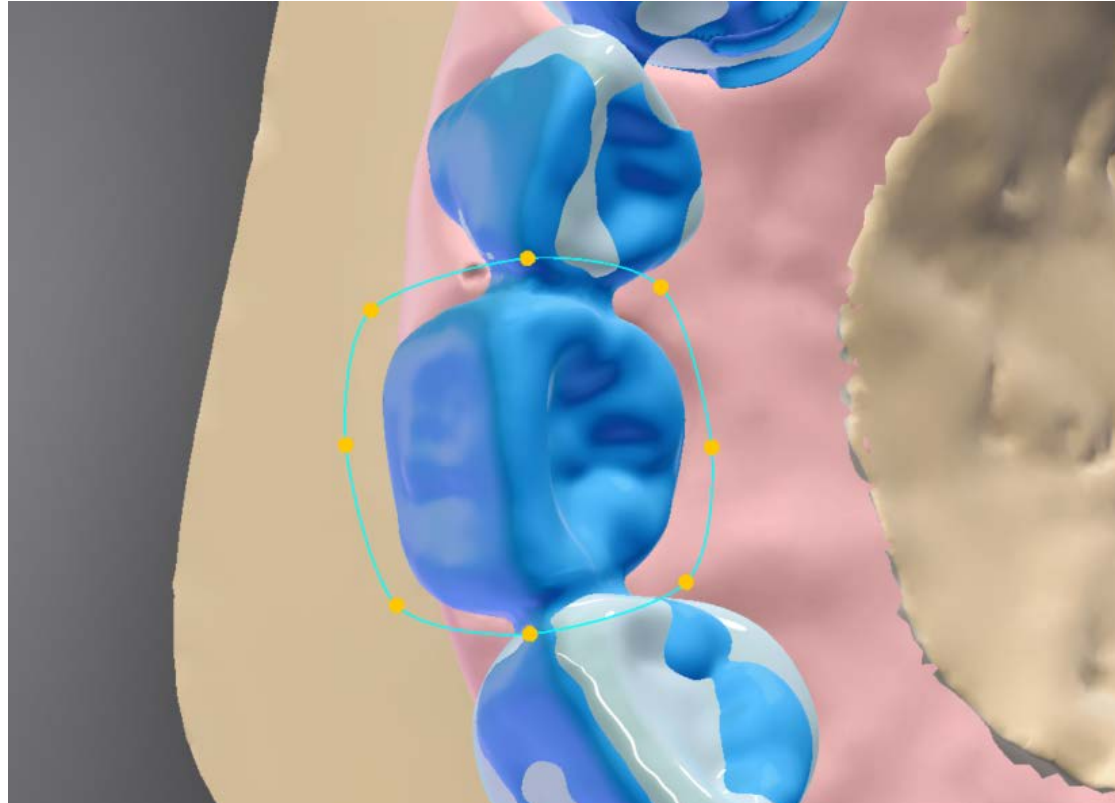
- Use wax-up for anatomy
- Automatic proposal as usual





CAD 5: INTRODUCTION

- Adapt anatomy on wax-up



Do not rotate the view

ARCH SCAN 6

IMPRESSION SCAN

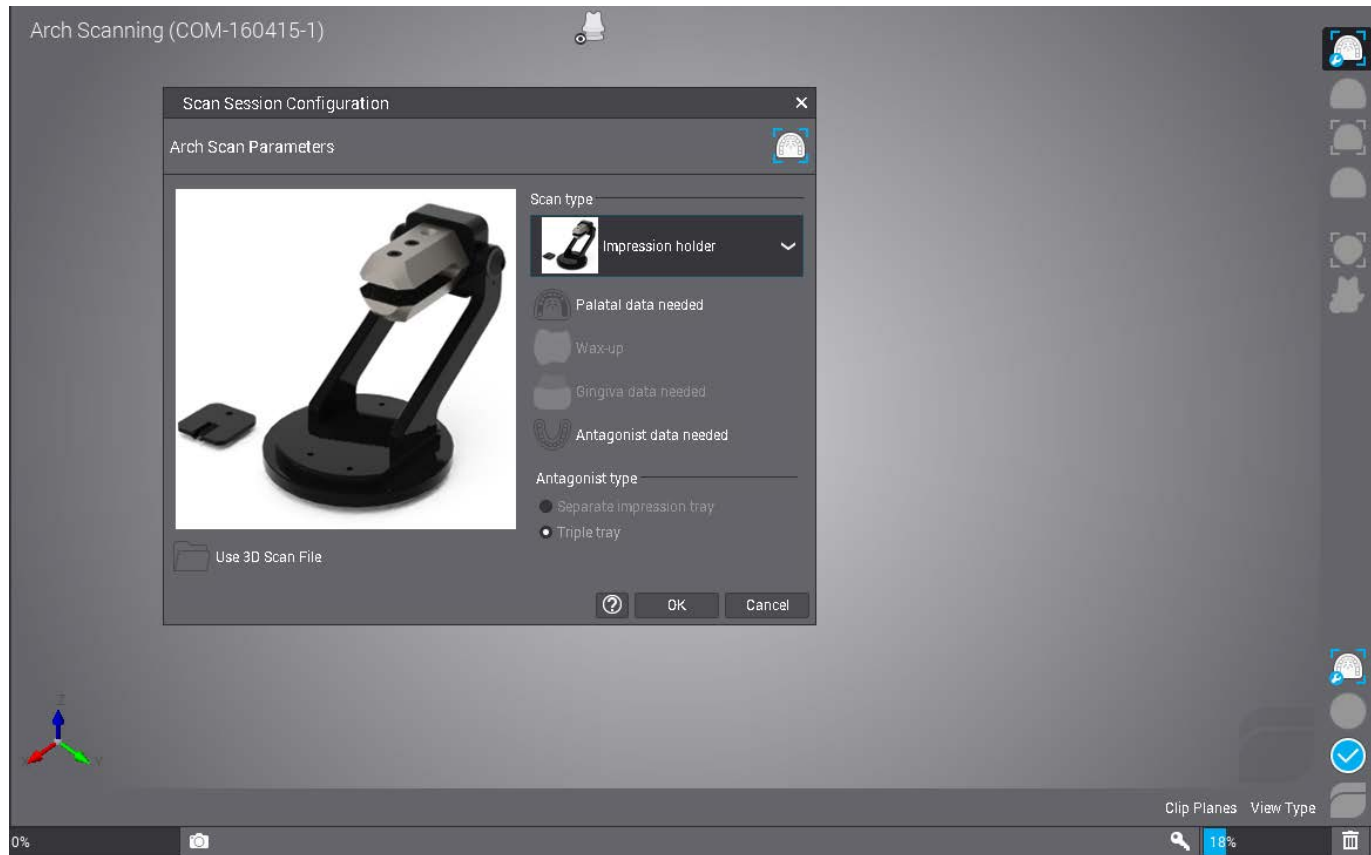
LOAD STL FILE





ARCH SCAN 6: START

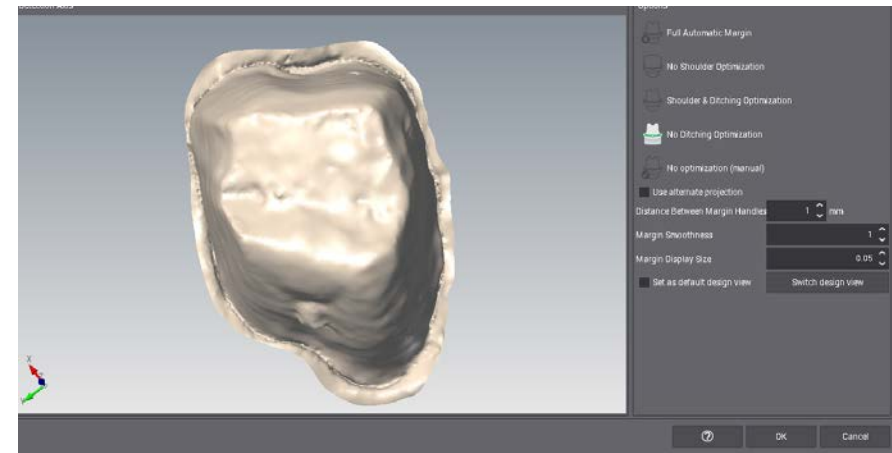
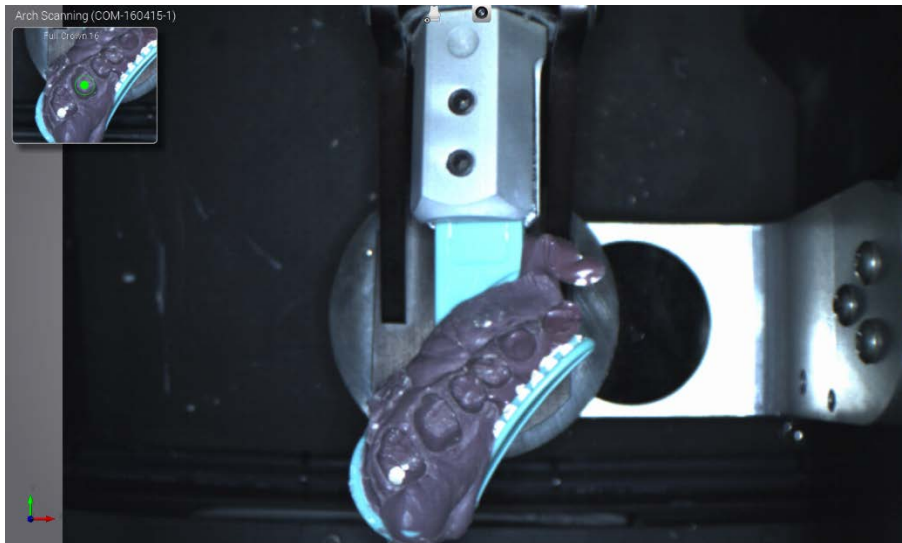
- Impression holder
- First assistant selection





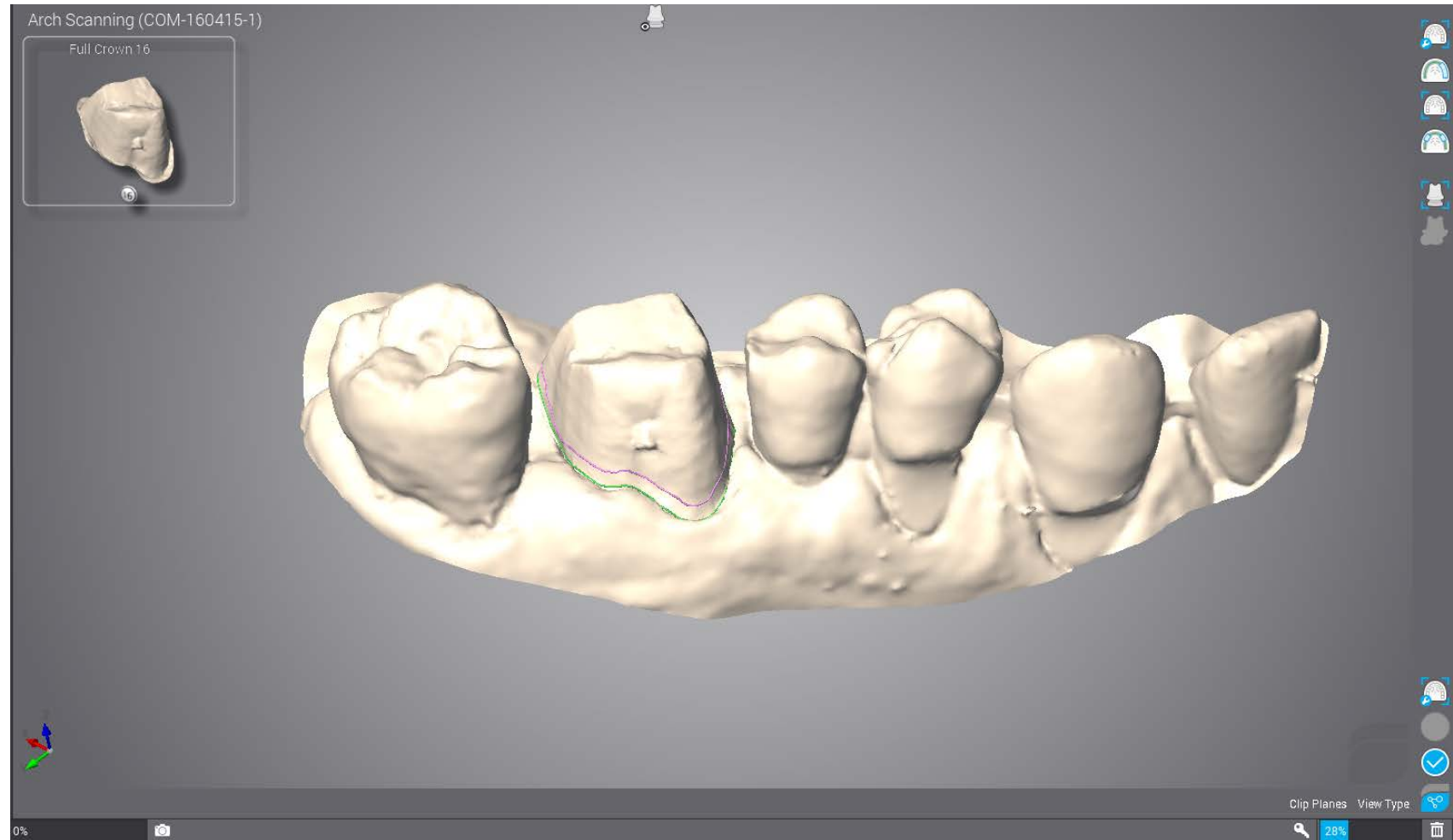
ARCH SCAN 6: IMPRESSION SCAN

- Orient, define area, tooth # assignment
precise scan as usual
- Margin particular edition






ARCH SCAN 6





 dental wings
LUNCH BREAK

SCAN & CAD

USING YOUR CASES



DHS

SUBCONTRACTING MANAGMENT





DHS INTRODUCTION



- Can subcontract at different operation steps
- Secured data subcontracting
- Fully integrated in DWOS environment



DHS: DHS CONNECTION

- Connecting status
- settings





DHS: SUBCONTRACT

- Design & manufacturing
- Administrative & production



COM-160414-2

- Route Forward
- Route Back
- Customer Details
- Export order
- Duplicate order
- Open Application
- Archive
- Save and Purge
- Purge Only
- DWOS Connect > Subcontract Design
- Attached Documents
- Generate PDF Report
- Unlock

Dr David S...

Production ch...

JCB

- Route Forward
- Route Back
- Retrieve Manufacturing Files
- Retrieve Scan Files
- Customer Details
- Export order
- Duplicate order
- Open Application
- Archive
- Save and Purge
- Purge Only
- DWOS Connect > Subcontract Job
- Attached Documents
- Generate PDF Report
- Unlock

Dr David S...

John Duval,

Dr David S...

John Duval,



DHS: SUBCONTRACT

- Summary
- Production choices





DHS: SUBCONTRACT

- Automatic files transfer
- Status automatically updates
- Updates from production center are automatic



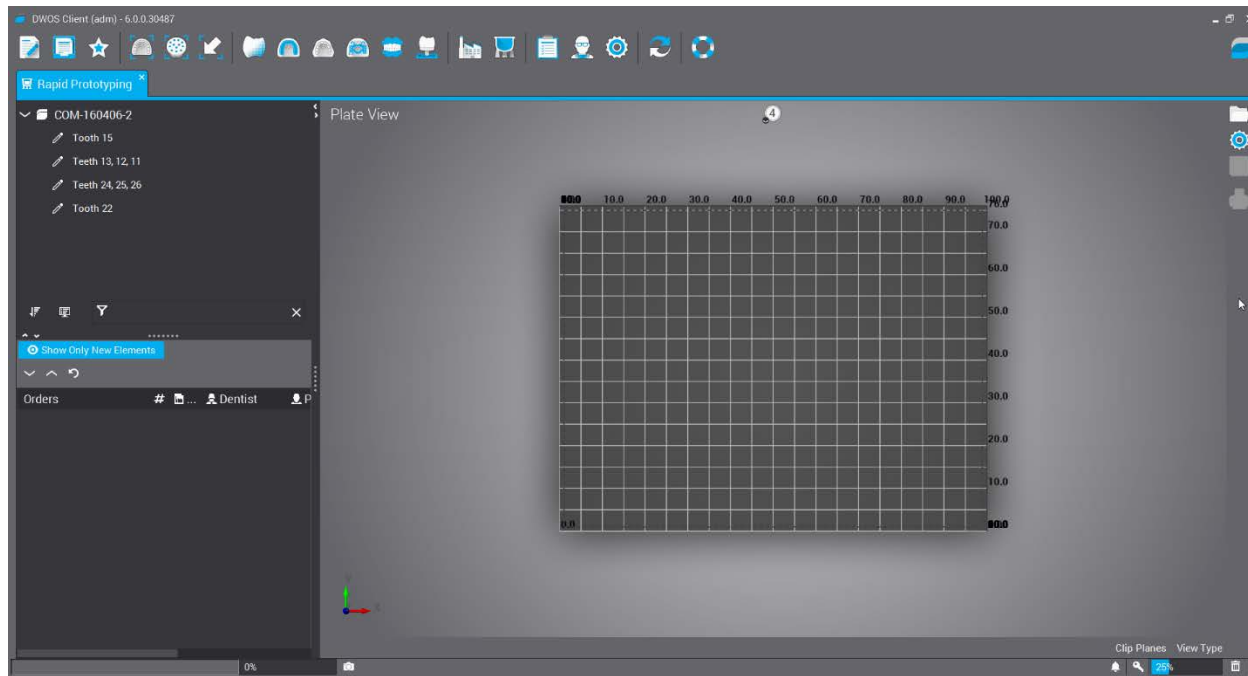
PERFACTORY STATION





PERFACTORY STATION: INTRODUCTION

- Integrate production with perfactory solutions
- Preparation of production plates





PERFACTORY STATION: MACHINE SETTINGS

- Define printer parameters
- Refer to documentation

The screenshot shows a dialog box titled "Choose your printer" with a close button (X) in the top right corner. The dialog contains the following fields and controls:

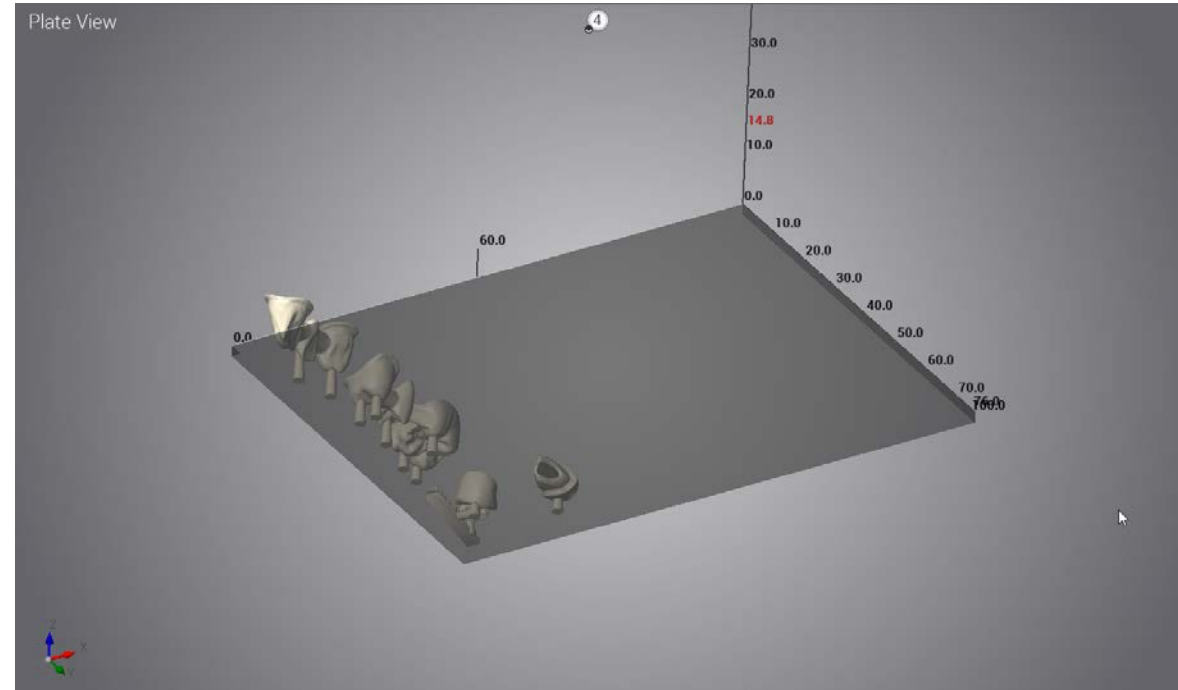
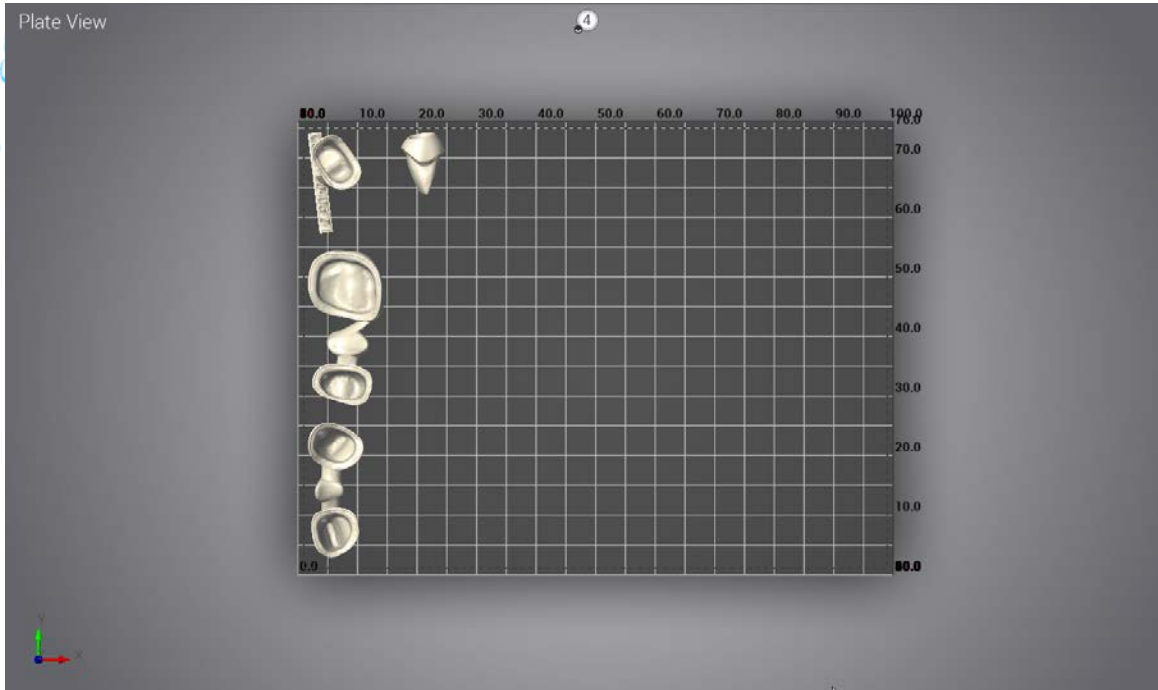
- Printer :** A dropdown menu showing "Station Perfact..." with "Edit", "New", and "Delete" buttons to its right.
- Printer Name :** A text field containing "Station Perfactory Printing".
- Path to software :** A text field containing "Software Suite 2.2\Perfactory RP\Perfactory RP.exe" with a "Browse" button to its right.
- Auto Launch Printing Software :** An unchecked checkbox.
- Save Plate in Single File :** An unchecked checkbox.
- Merge supports with model :** An unchecked checkbox.
- Distance from edges :** A spinner box set to "1".
- XY Graduation Scale :** A spinner box set to "10".
- Gap between elements :** A spinner box set to "1.5".
- XY Grid Scale :** A spinner box set to "5".
- Plate Width :** A spinner box set to "100".
- Z Graduation Scale :** A spinner box set to "10".
- Plate Height :** A spinner box set to "76".
- Z Axis Height :** A spinner box set to "60".
- Plate Thickness :** A spinner box set to "2".

At the bottom right of the dialog are "OK" and "Cancel" buttons.



PERFACTORY STATION: ORDER POSITIONING

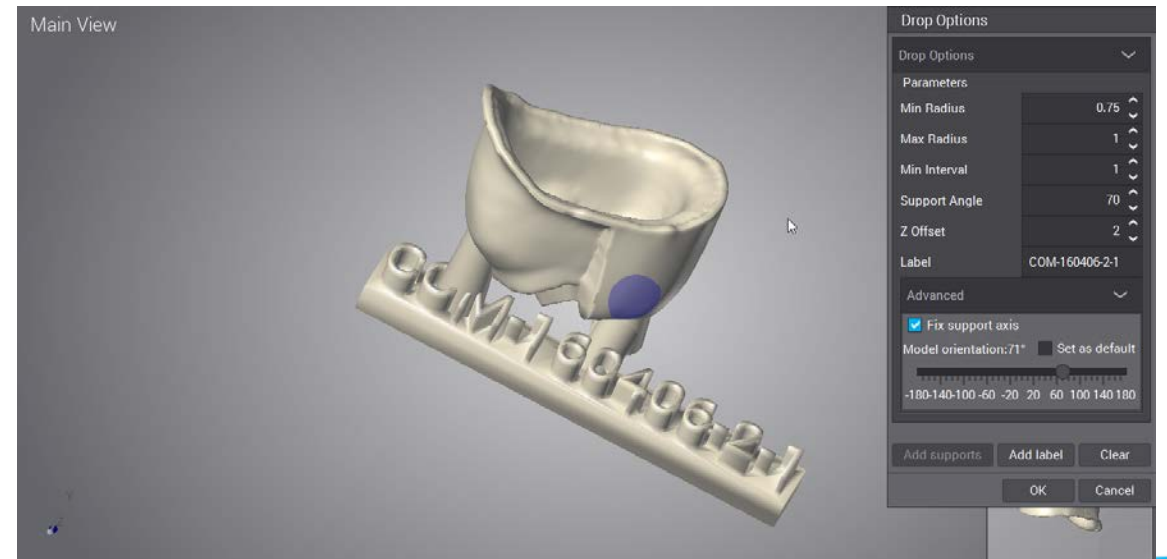
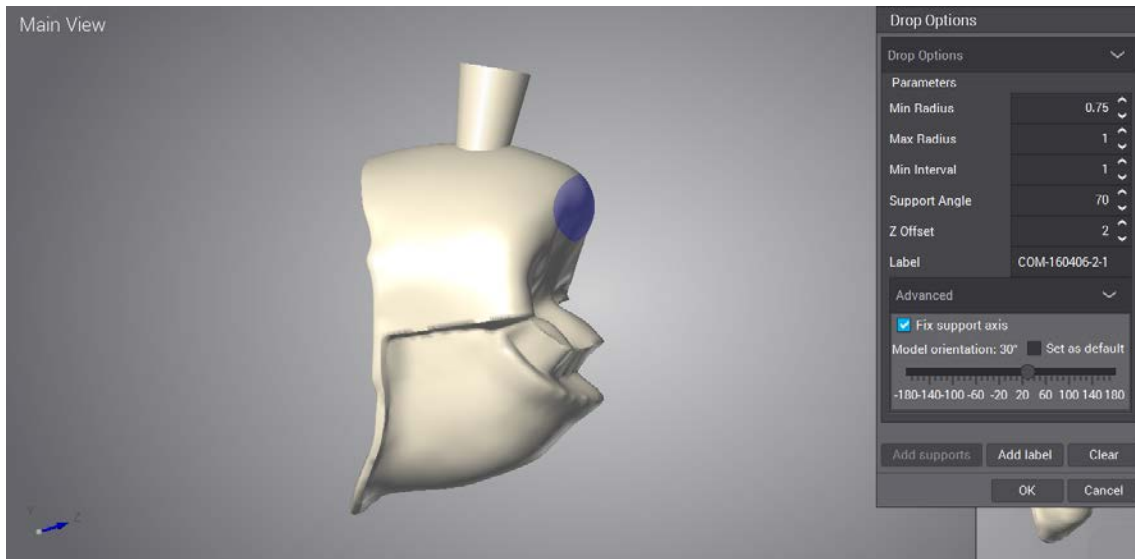
- Drag to selected position
- Select move





PERFACTORY STATION: BUILD SUPPORTS

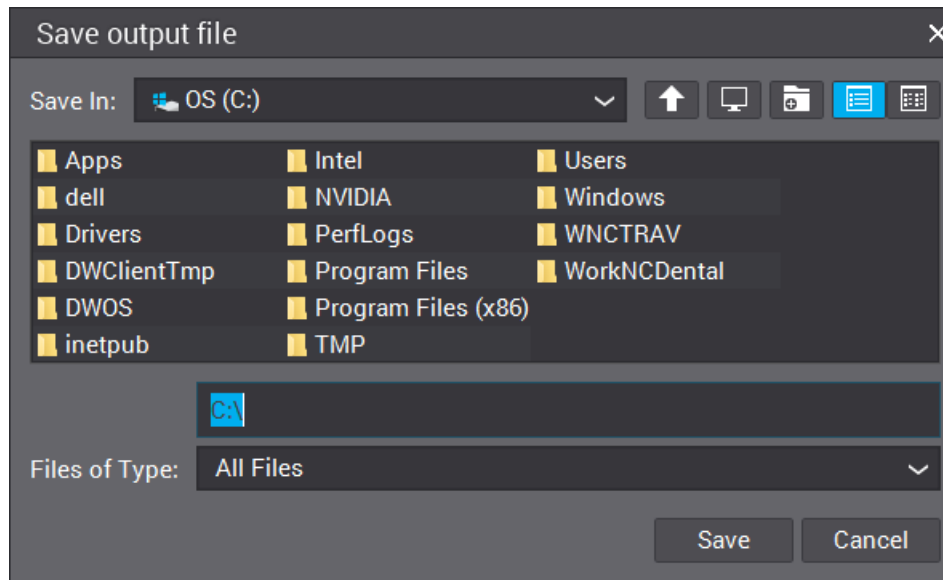
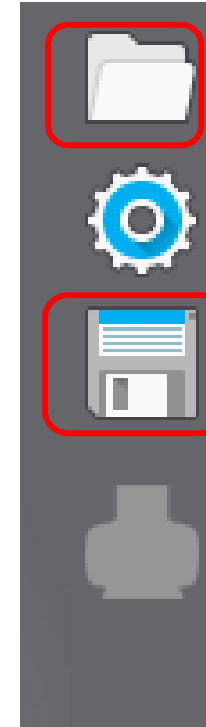
- Support generation
- Label creation





PERFACTORY STATION: LOAD AND SAVE

- Add STL file
- Save plate





PAUSE

Back in **10** minutes

IMPLANT MODULE





IMPLANT: INTRODUCTION

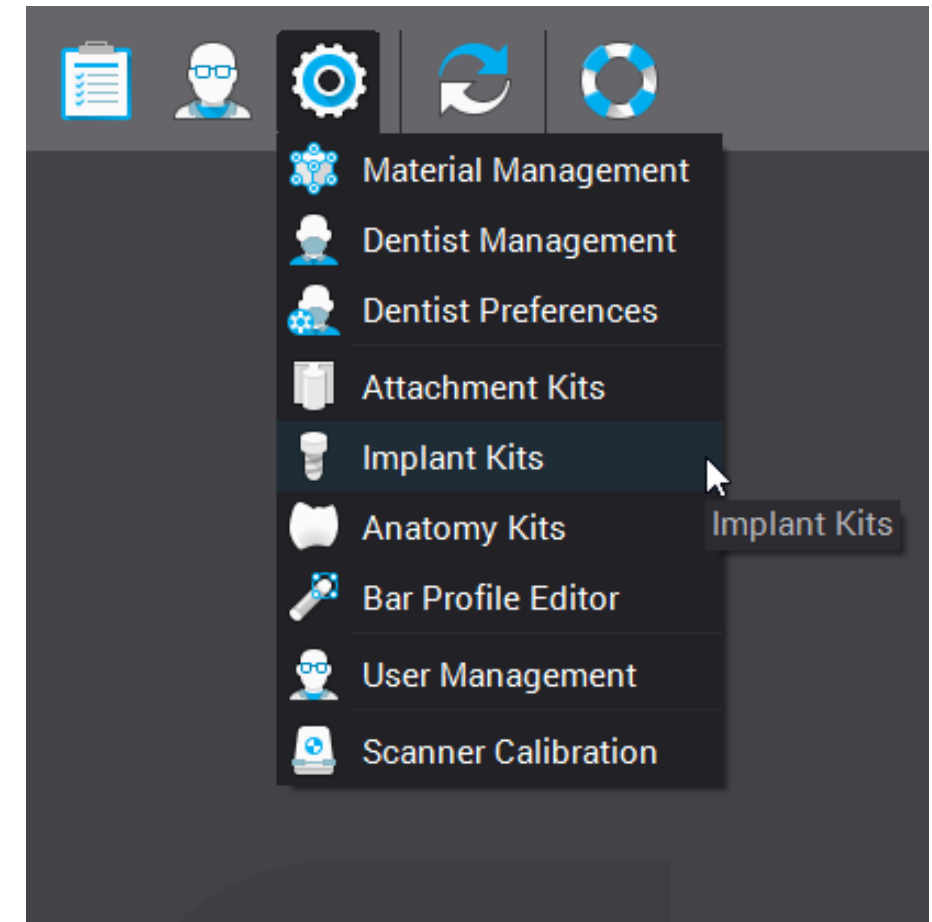
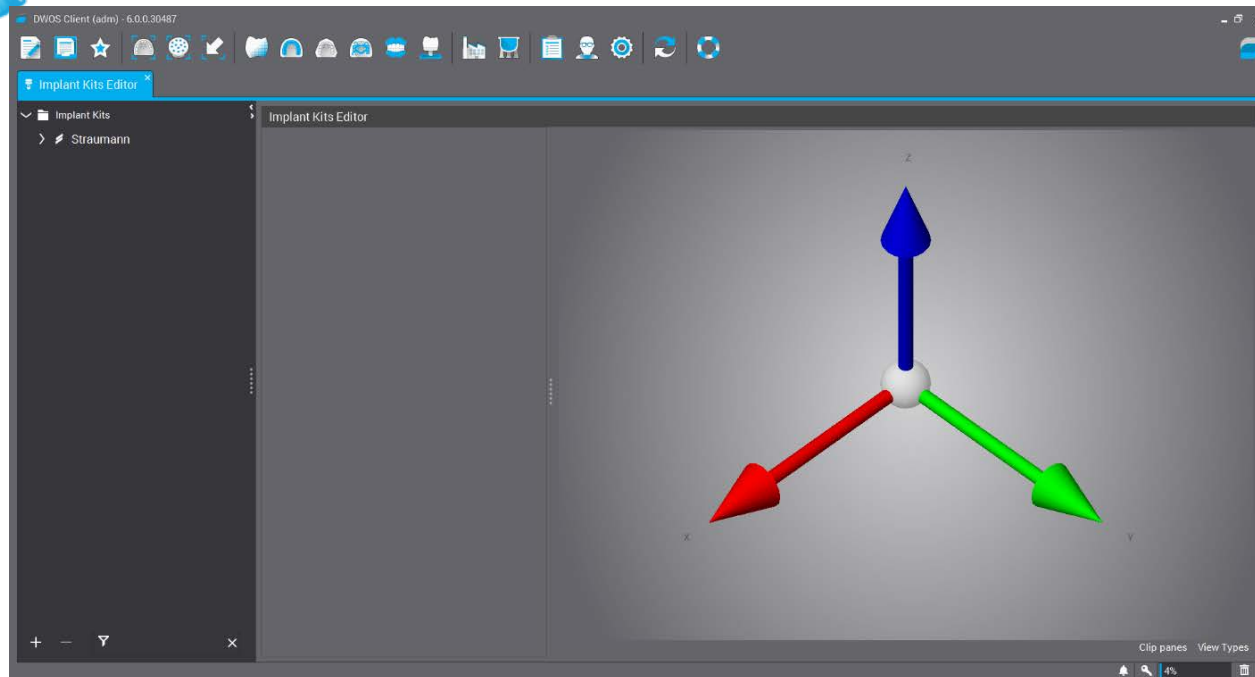


- Optional module
- Single customized abutment
- Jig(scan body)
- Implant kit definition
- Implant kit manager
- Order creation
- Scan
- CAD



IMPLANT: IMPLANT KIT

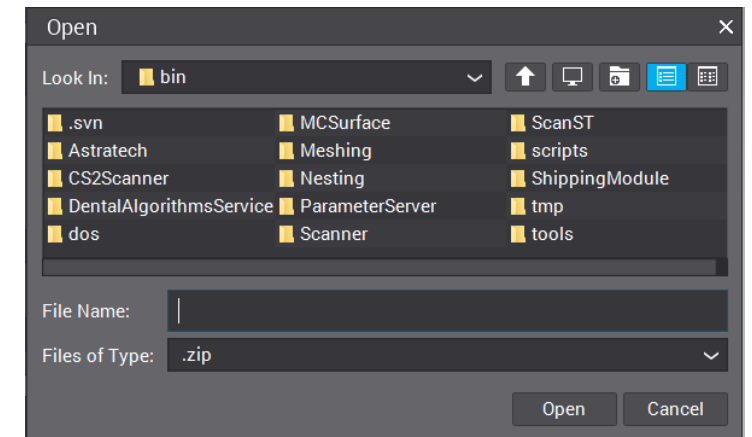
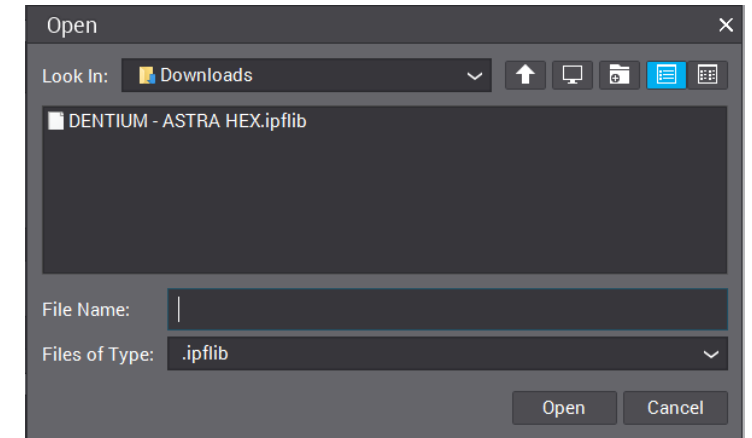
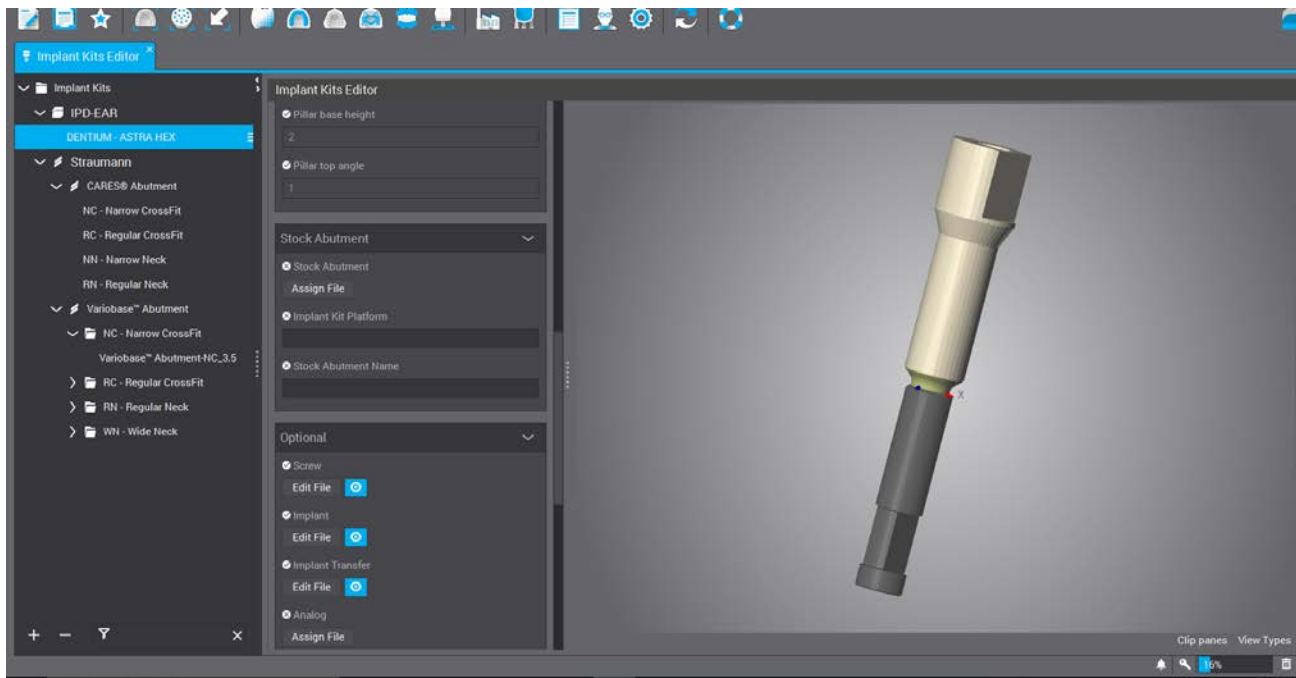
- Define all component
- Dimension and geometry





IMPLANT: IMPLANT KIT IMPORT

- Provided by manufacturer or 3rd party vendor
- IPFLIB file
- Zip file





IMPLANT: IMPLAN KIT CREATION

- New manufacturer
- New kit

New manufacturer

New manufacturer

Manufacturer Name :

OK Cancel

New Implant Kit

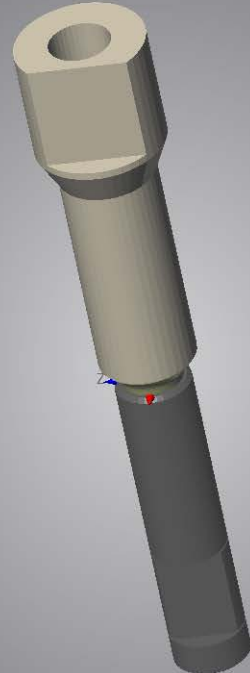
New Implant Kit

Implant Kit Name :

OK Cancel

Implant Kits Editor

- Screw
Edit File
- Implant
Edit File
- Implant Transfer
Edit File
- Analog
Assign File
- Minimum Body
Assign File
- Maximum Body
Assign File
- Cut-Out Radius
2.7 mm
- Manual repositioning only
- Interface Top Plane Removal
- Can be calibrated
- CDX implant offset
0
- CDX implant rotation
0



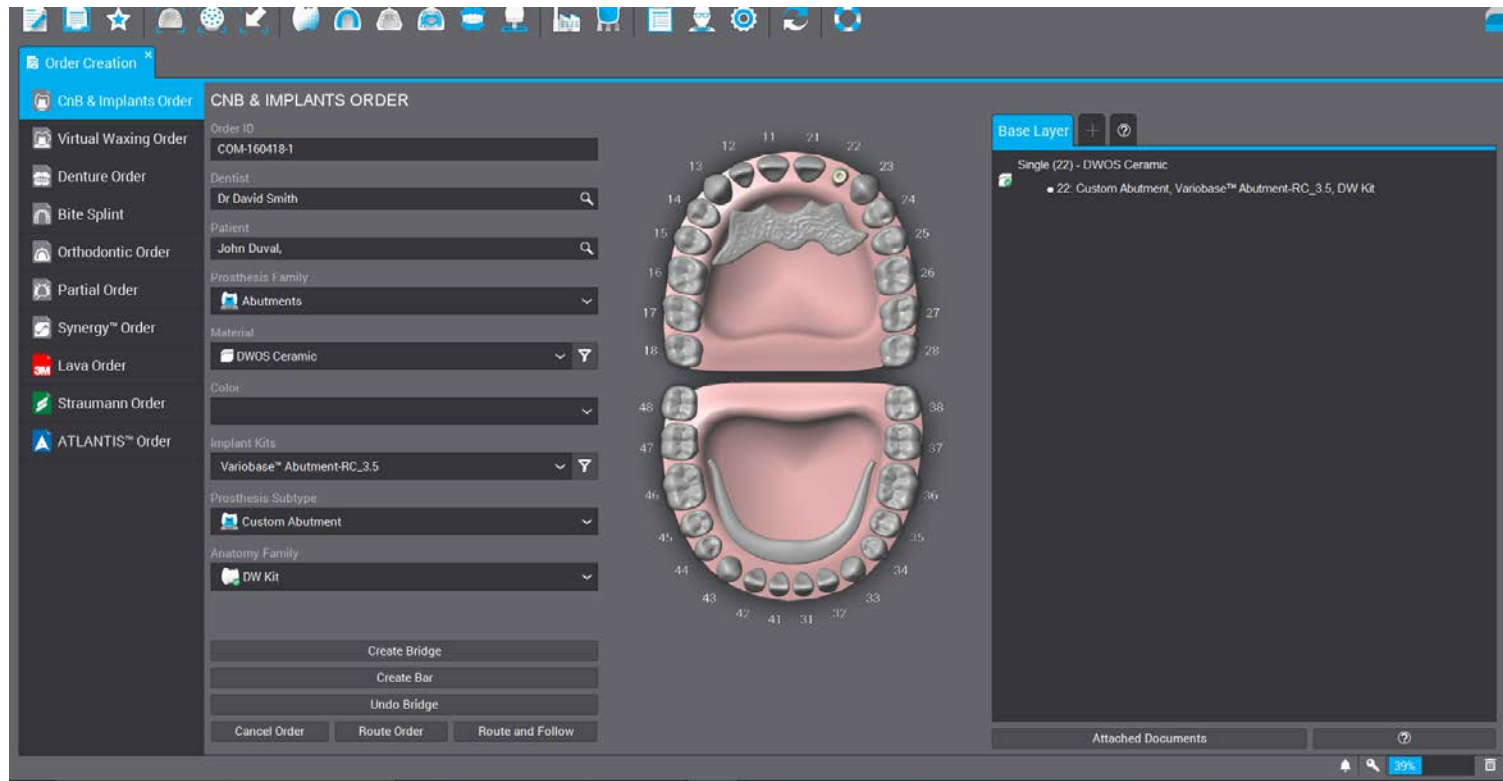
Clip panes View Types

30%



IMPLANT: ORDER CREATION

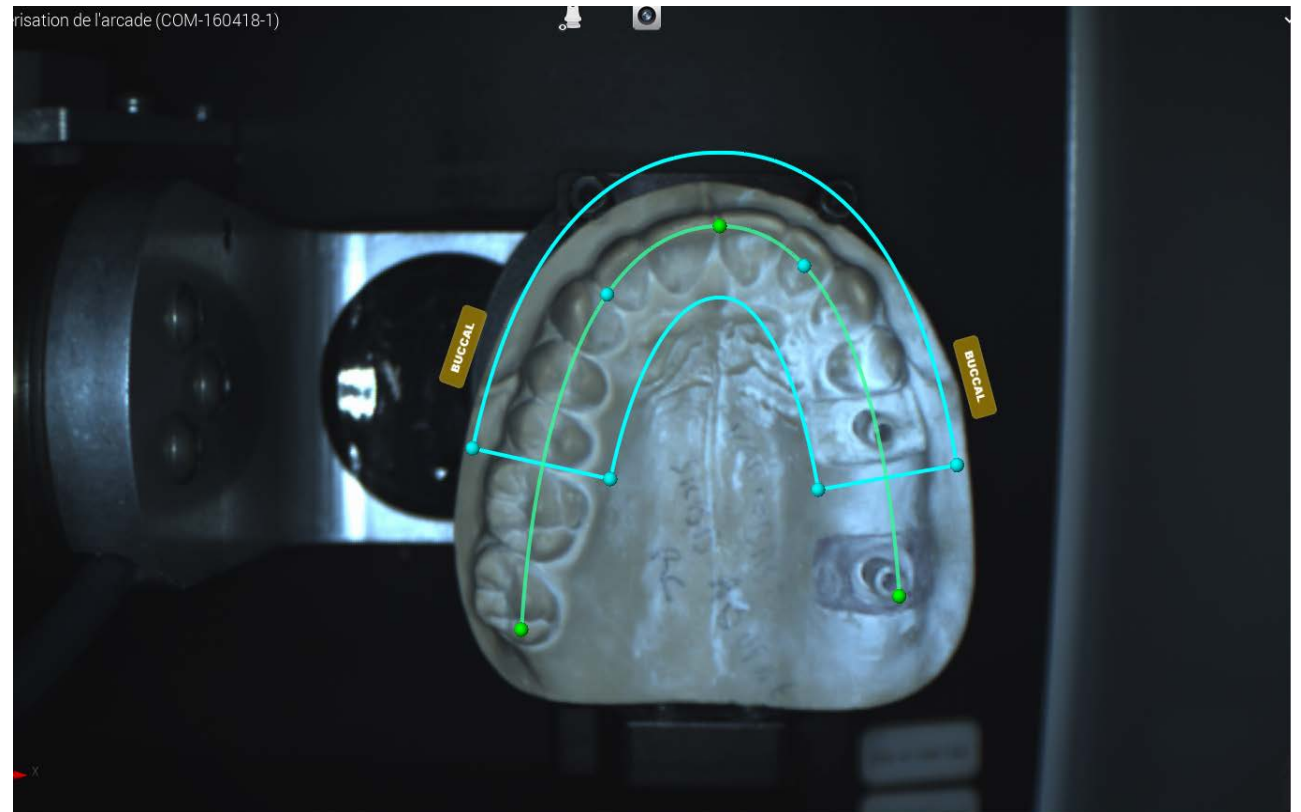
- As usual
- Define implant kit
- Came in import order





IMPLANT: SCAN

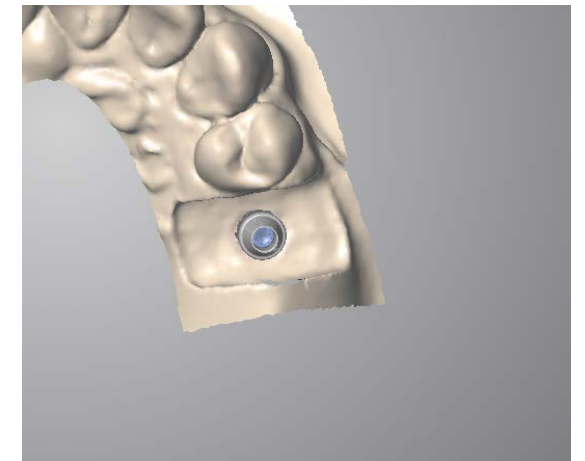
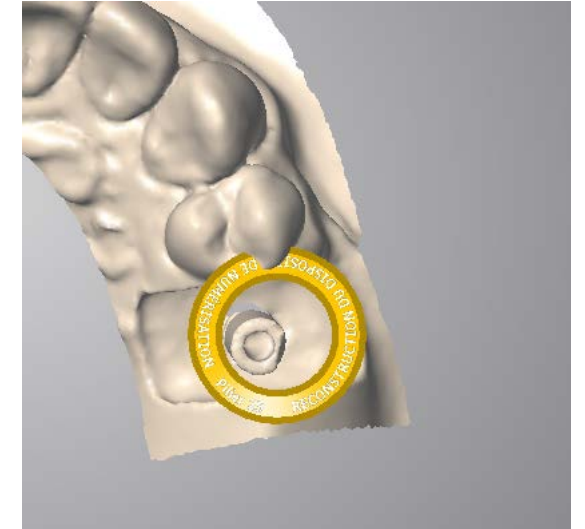
- Install jig
- Remove gingiva
- Start as usual





IMPLANT: SCAN OF JIG

- Assign tooth preparation
- Automatic computation





IMPLANT: SCAN OF GINGIVA

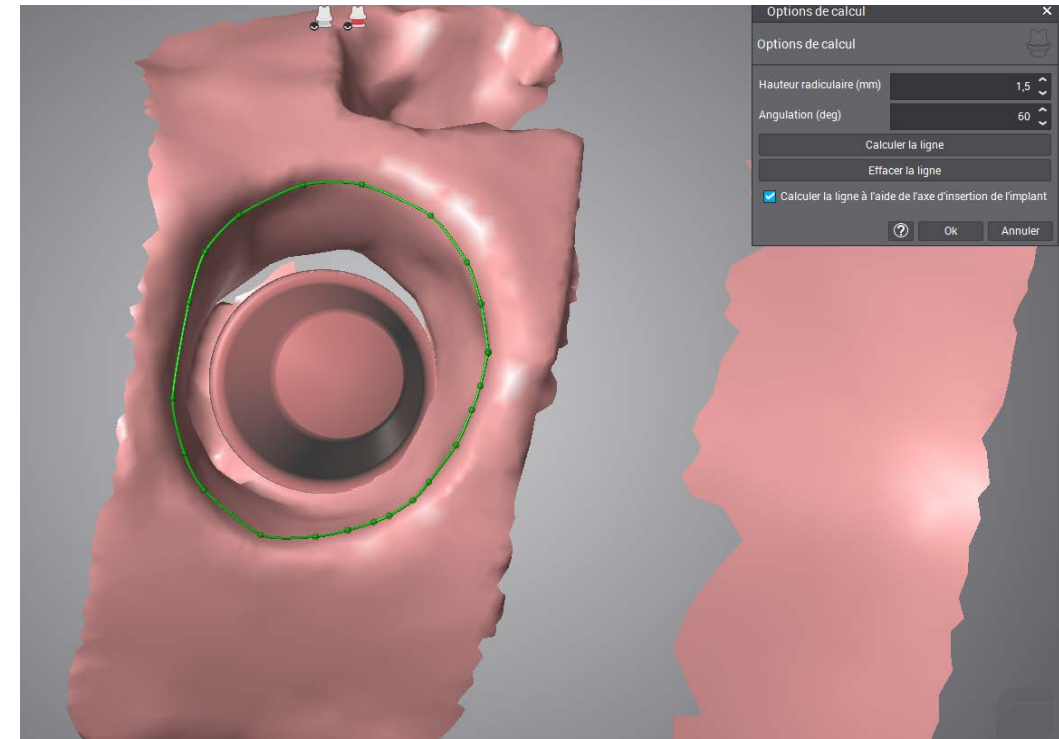
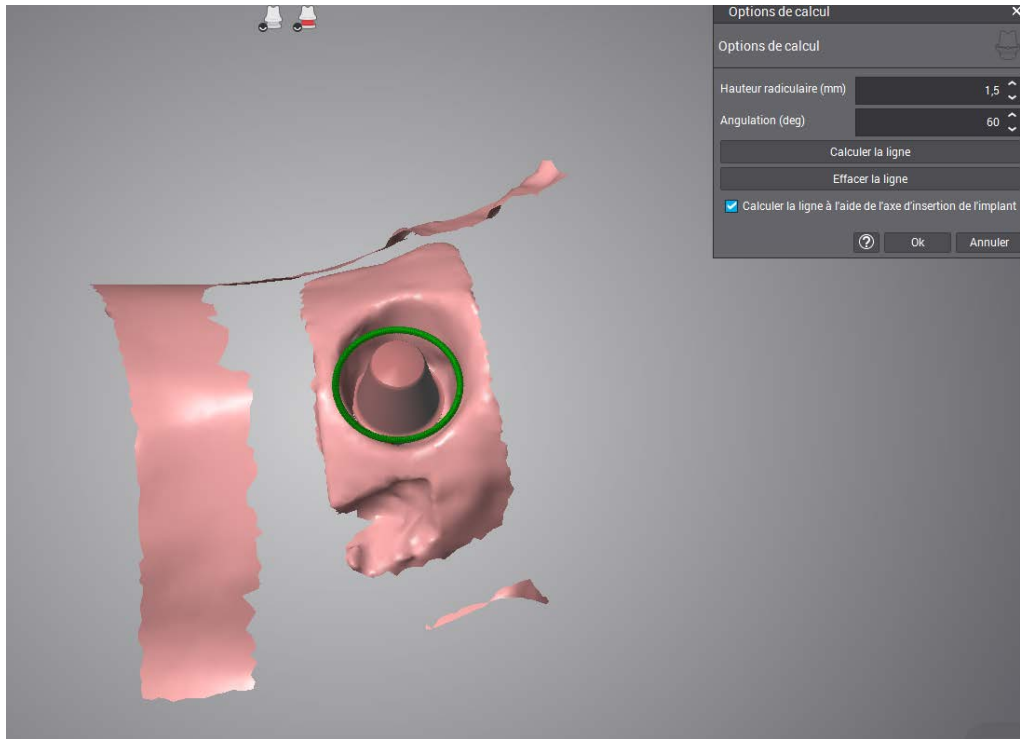
- Remove abutment
- Replace gingiva





IMPLANT: EDIT MARGIN

- Automatic computation
- manual





IMPLANT: END OF SCAN



The screenshot shows a dental software interface with a 3D model of a dental arch. A confirmation dialog box is displayed in the center, asking if the user wants to proceed to the design station after the scan is finished. The dialog box contains the following text:

Confirmation

La procédure de scan est terminée, désirez-vous poursuivre vers la station de conception?

Ouvrir automatiquement la commande dans la station de conception

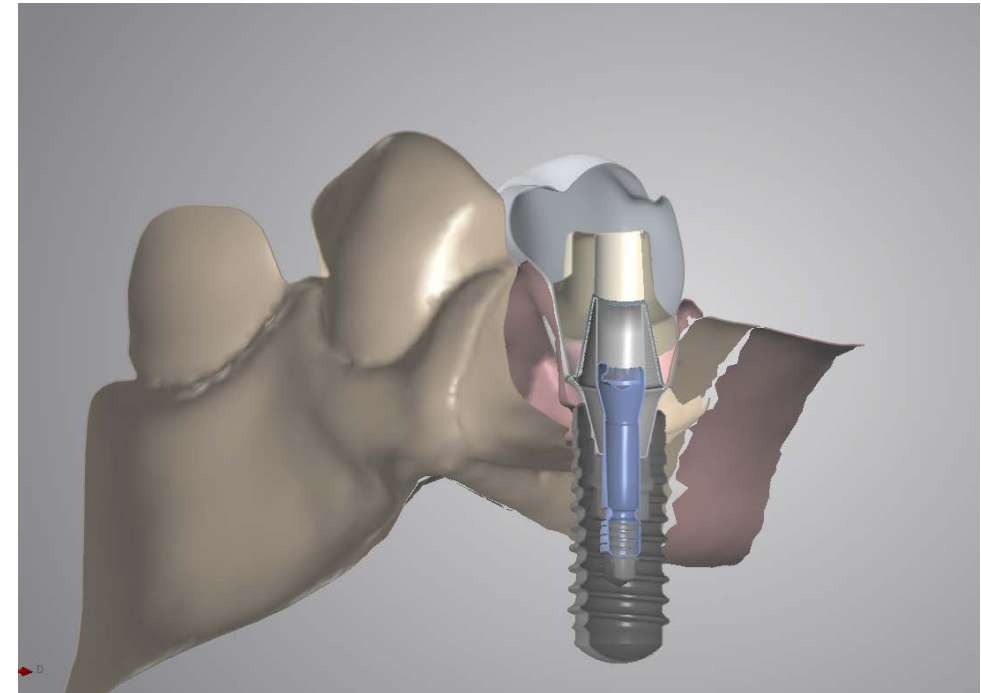
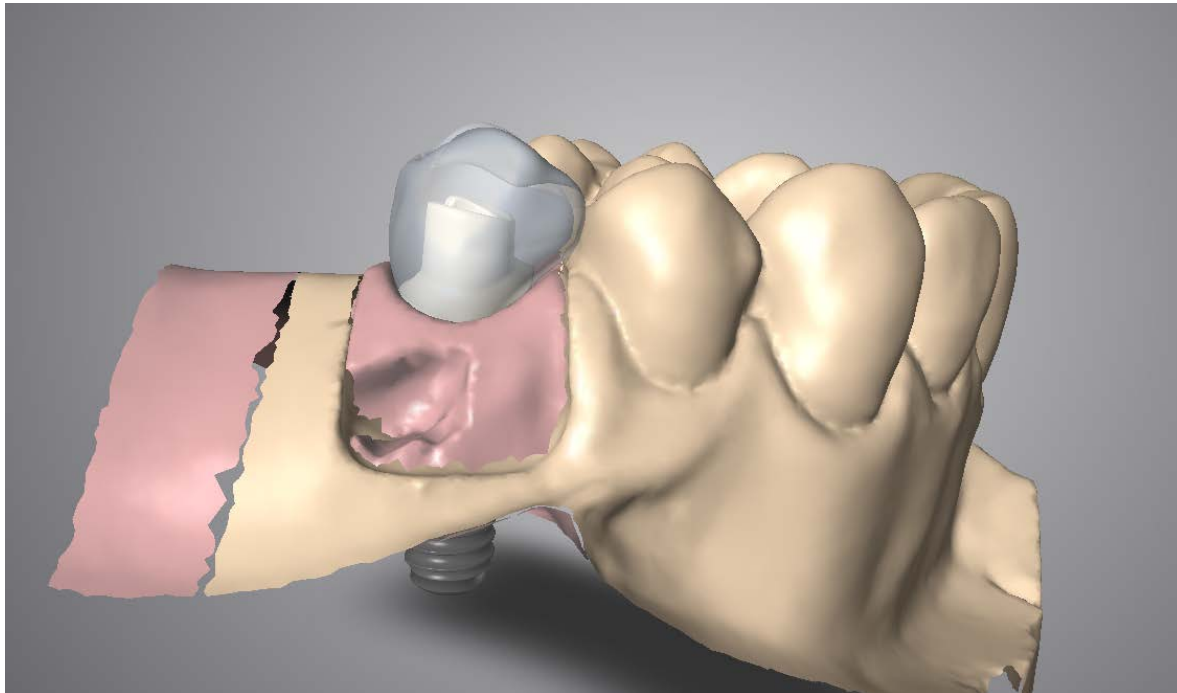
Oui Non

The interface also shows a list of orders on the left, including COM-160418-1, COM-160405-1, COM-160401-4, COM-160401-1, COM-160330-1, MD49822 DR ANUJA A2 3M LAY UP SUNIL, COM-160329-4, Validation2.12, COM-160323-2, and COM-160323-1. The status bar at the bottom indicates 'Numérisation de la gencive terminée.' and '100 %'.



IMPLANT: CAD

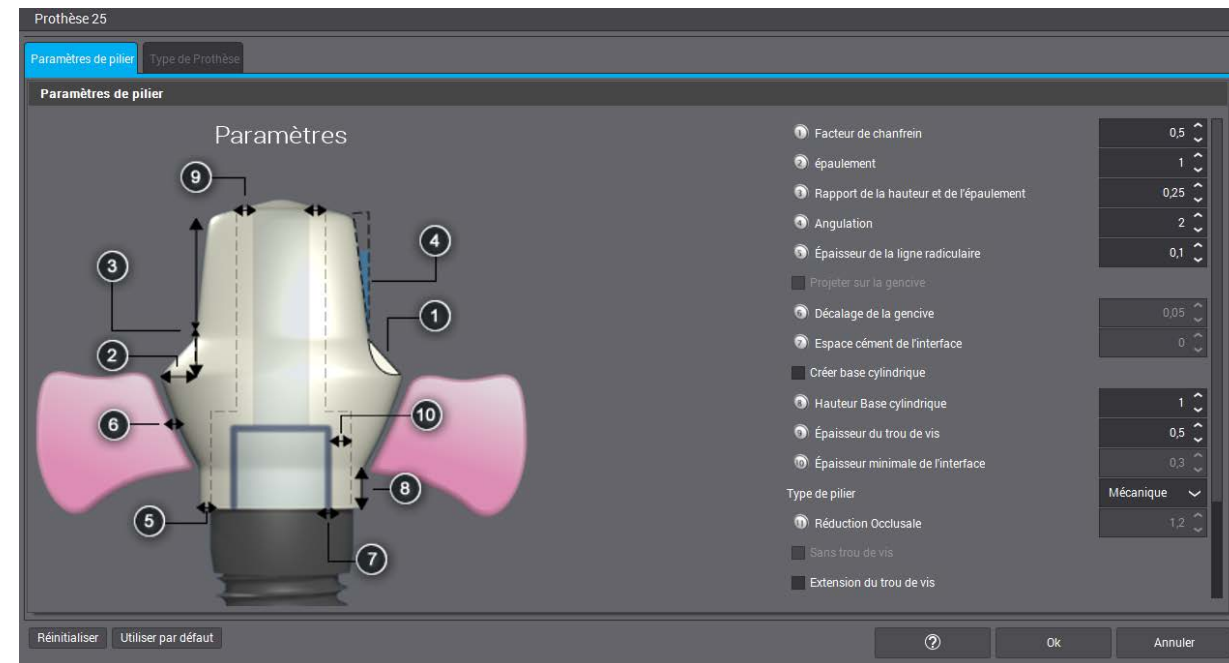
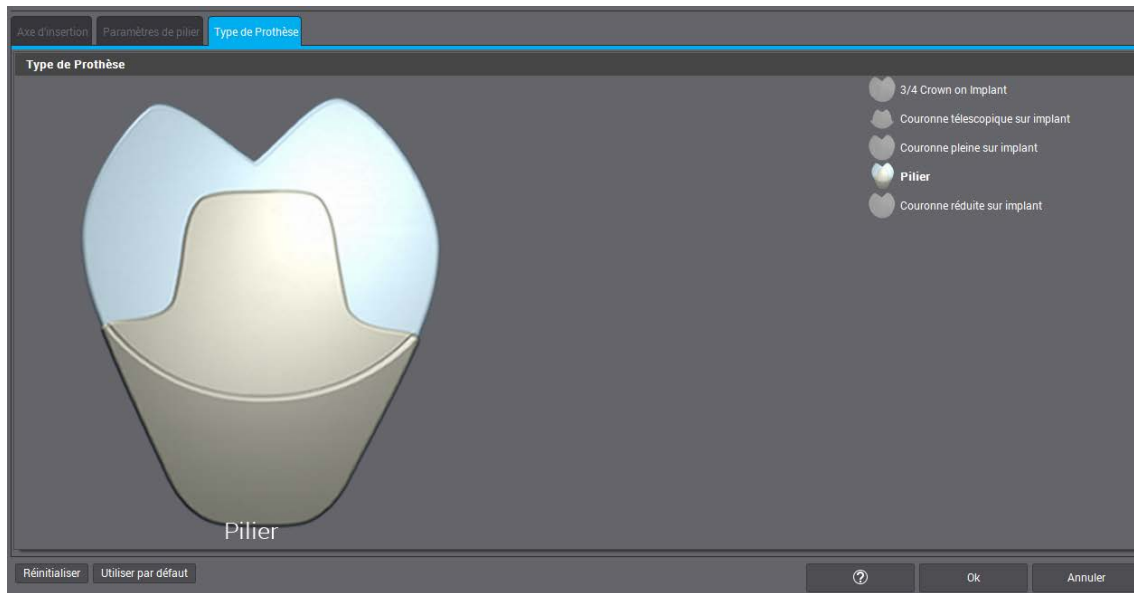
- Start as usual
- Automatic proposal
- Customized abutment as overlay





IMPLANT: CAD PARAMETERS

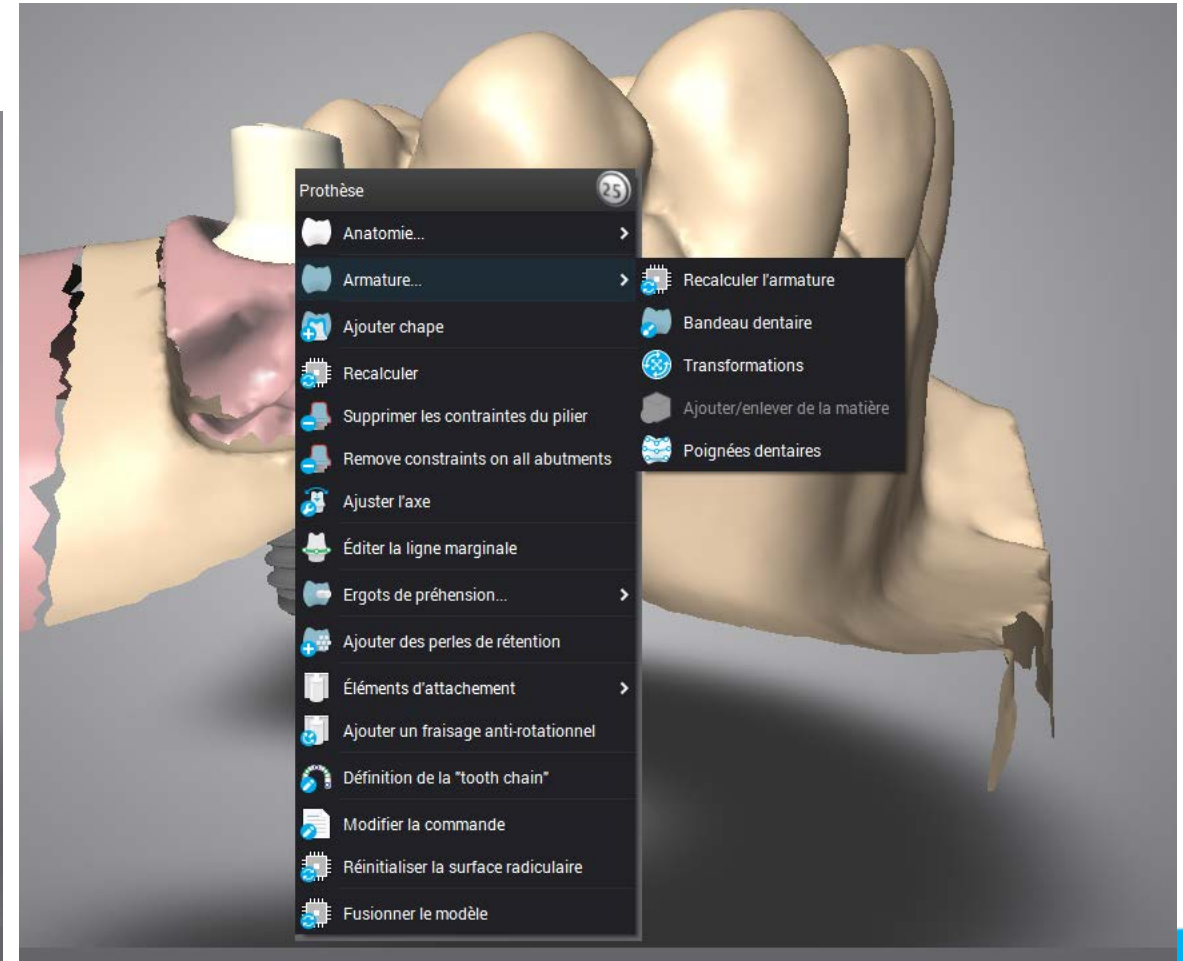
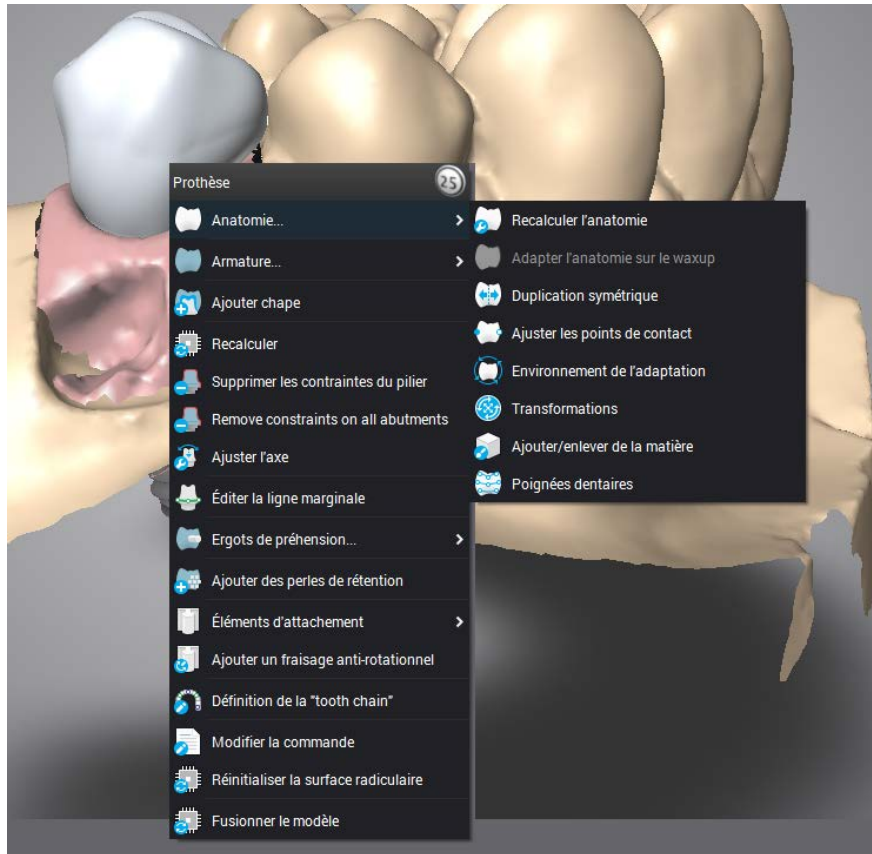
- Define & modify as usual





IMPLANT: CAD MENUS

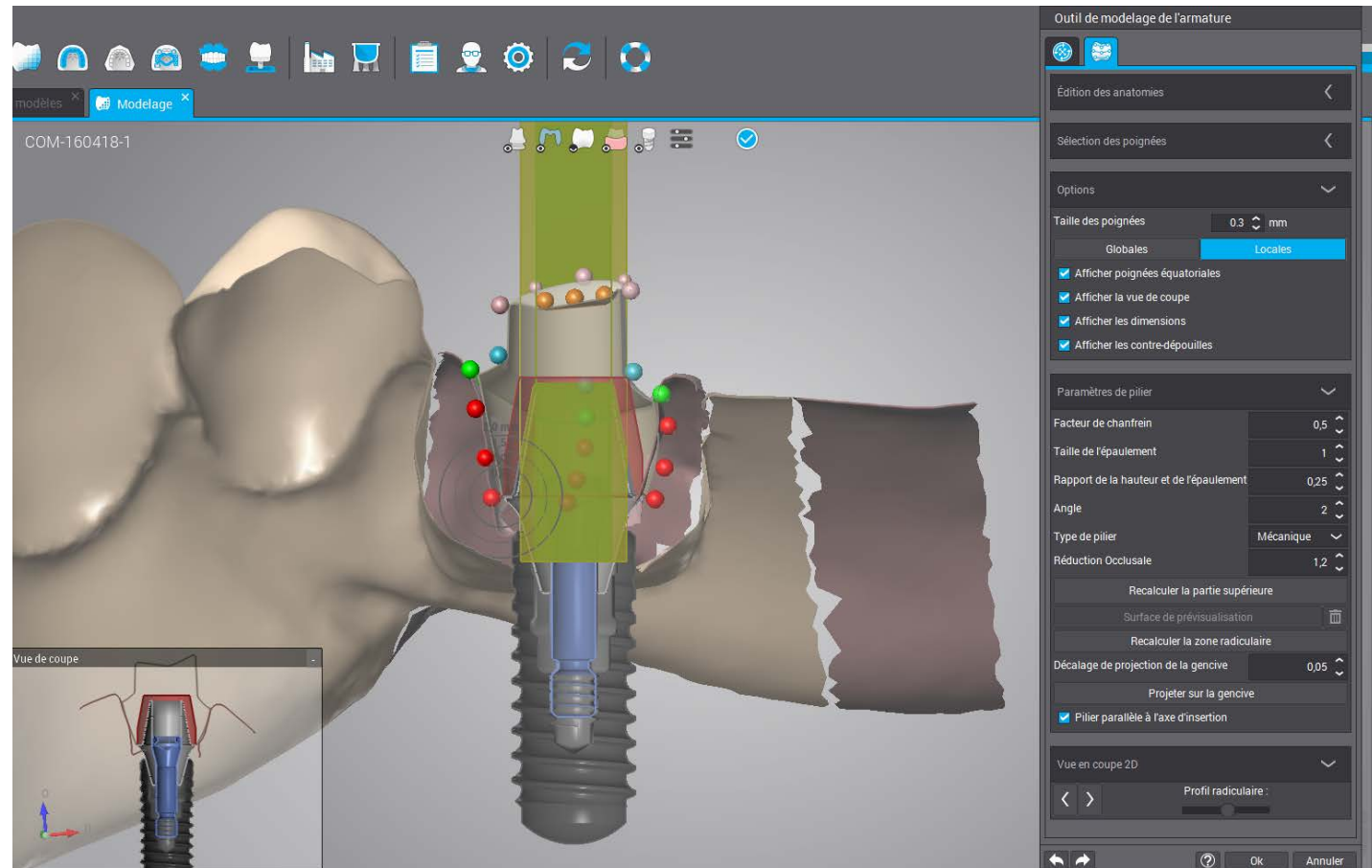
- As usual
- New Add Coping





IMPLANT: CAD EDITING TOOLS

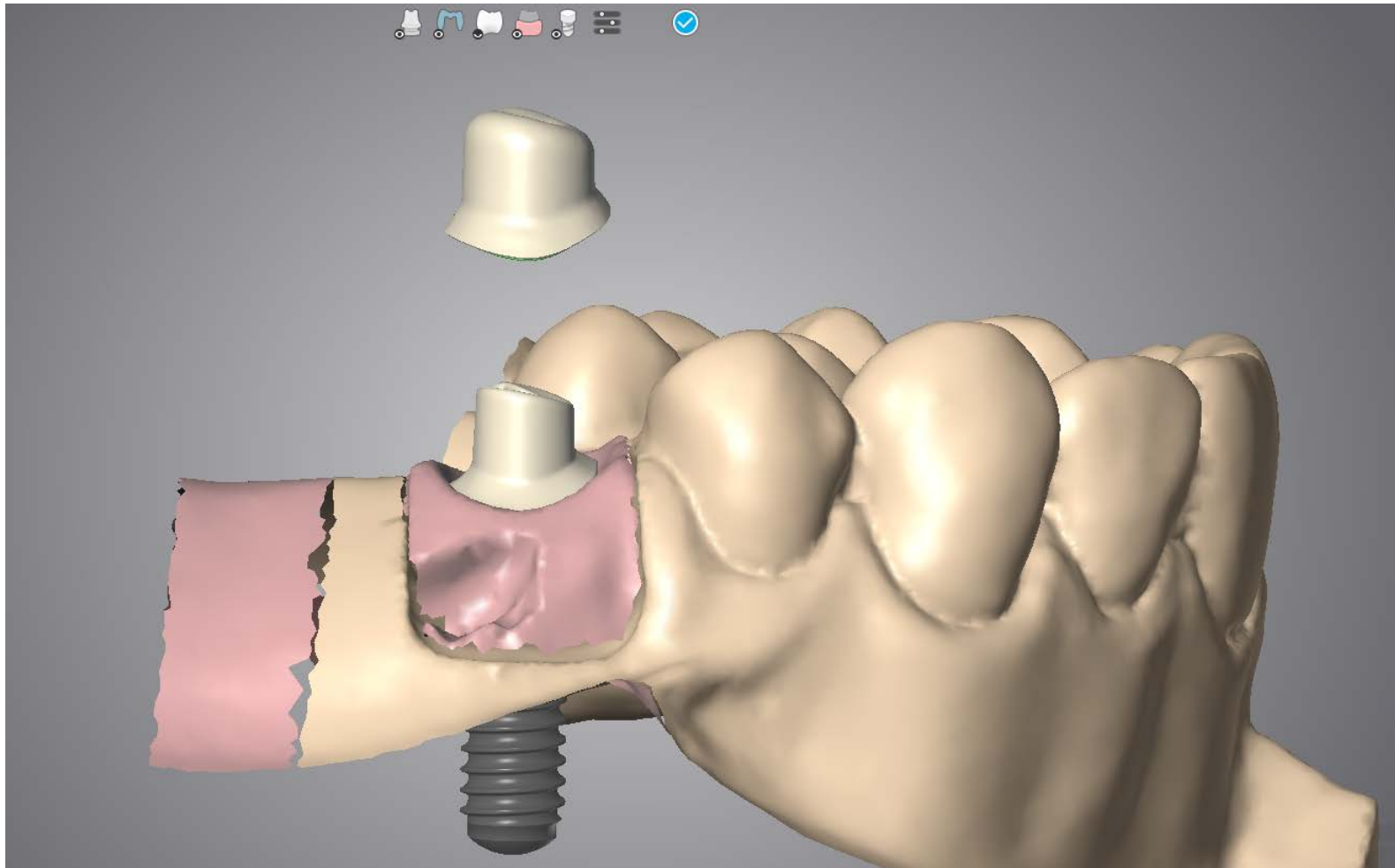
- Same tools
- Functions associated to





IMPLANT: ADD COPING

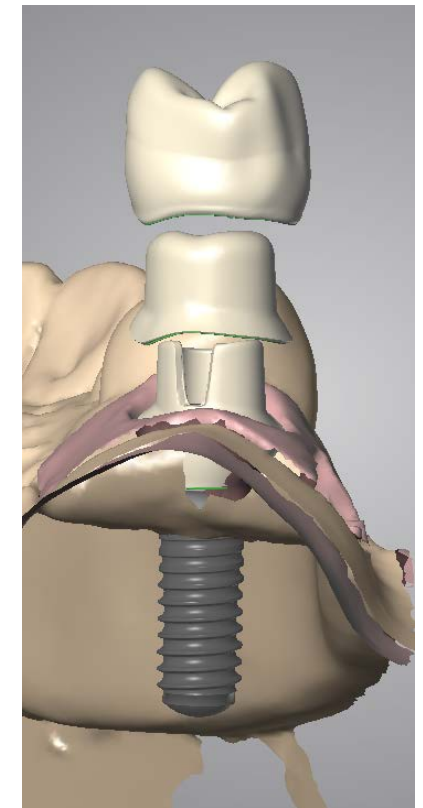
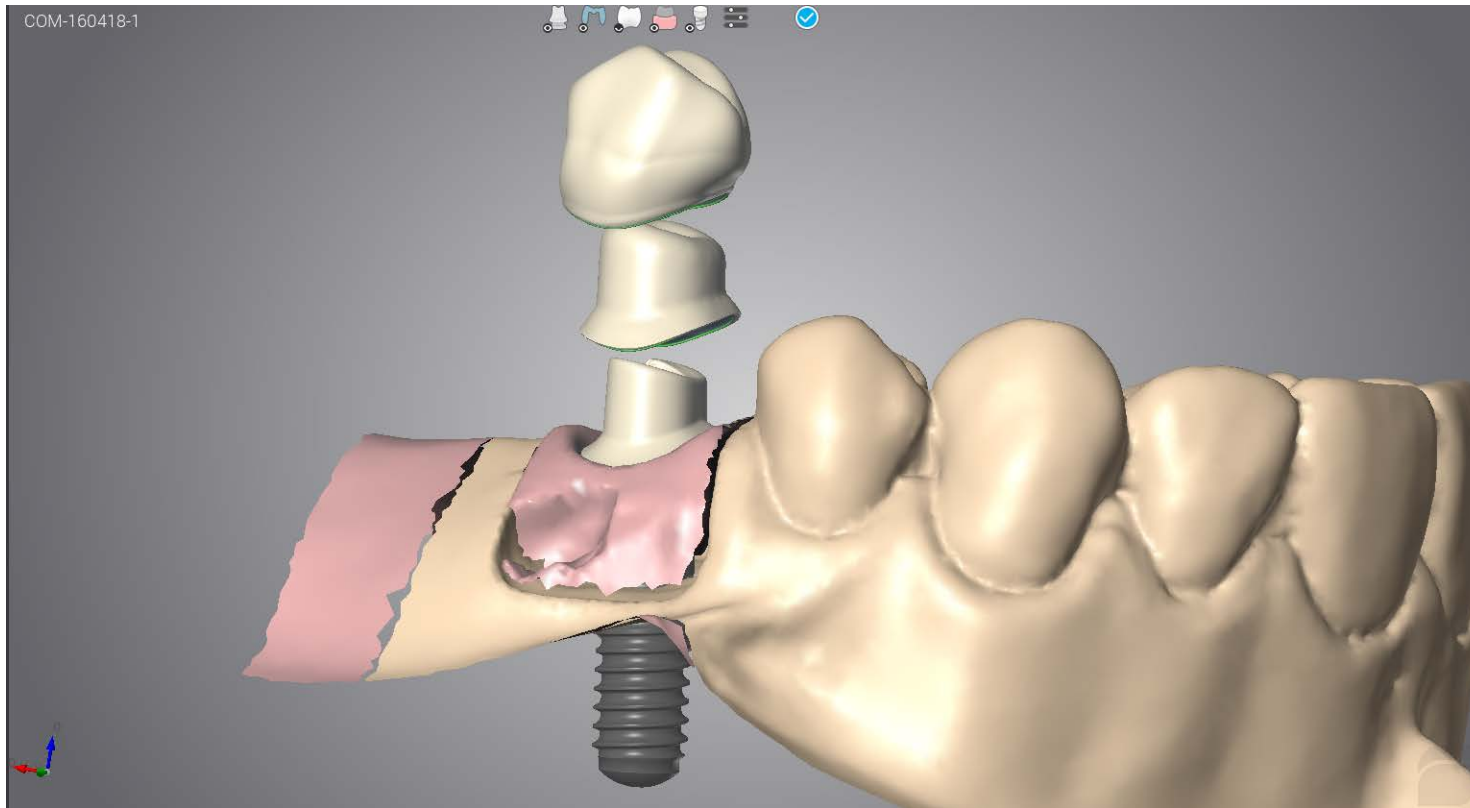
- Type & axis definition





IMPLANT: OVERPRESSED DESIGN

- Parameters as usual





IMPLANT: PRODUCTION FILES

- Several items
- One for customized
- One for coping(if any)
- One for over-pressed (if any)

Client dwos (adm) - 6.0.0.30491

Création de commandes | Numérisation de modèles | Modelage | Gestion des matériaux | Gestion des commandes

Page 1 sur 1 | 50 par page | (1 total)

Commandes	État	Client	Patient	Produit	Kits d'im...	Flux de travail ...	Système de ...	Type de Prothèse	Opération	Dent	Date d'échéance	Approval Status
COM-160418-1		smith	john duval,				3Series+					
COM-160418-1-3	Choix de fabrication			DWOS Ceramic				Chape simple avec an...	Fabrication		25	
COM-160418-1-2	Choix de fabrication			DWOS Ceramic				Chape simple avec ...	Fabrication		25	
COM-160418-1-1	Choix de fabrication			DWOS Ceramic	Variobas...			Pilier	Fabrication		25	



QUESTIONS & ANSWERS