ipd

Dental Group

3Shape FDA Library

USER GUIDE

Dental Group

DISCLAIMER

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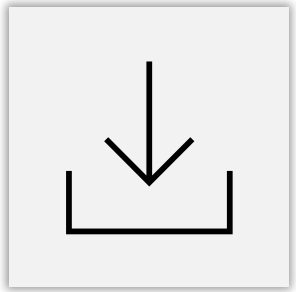
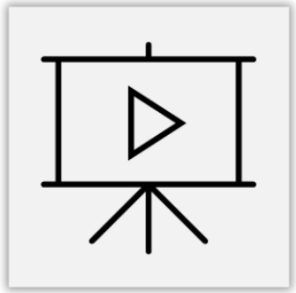
Interactive show

ipd Dental Group



Install

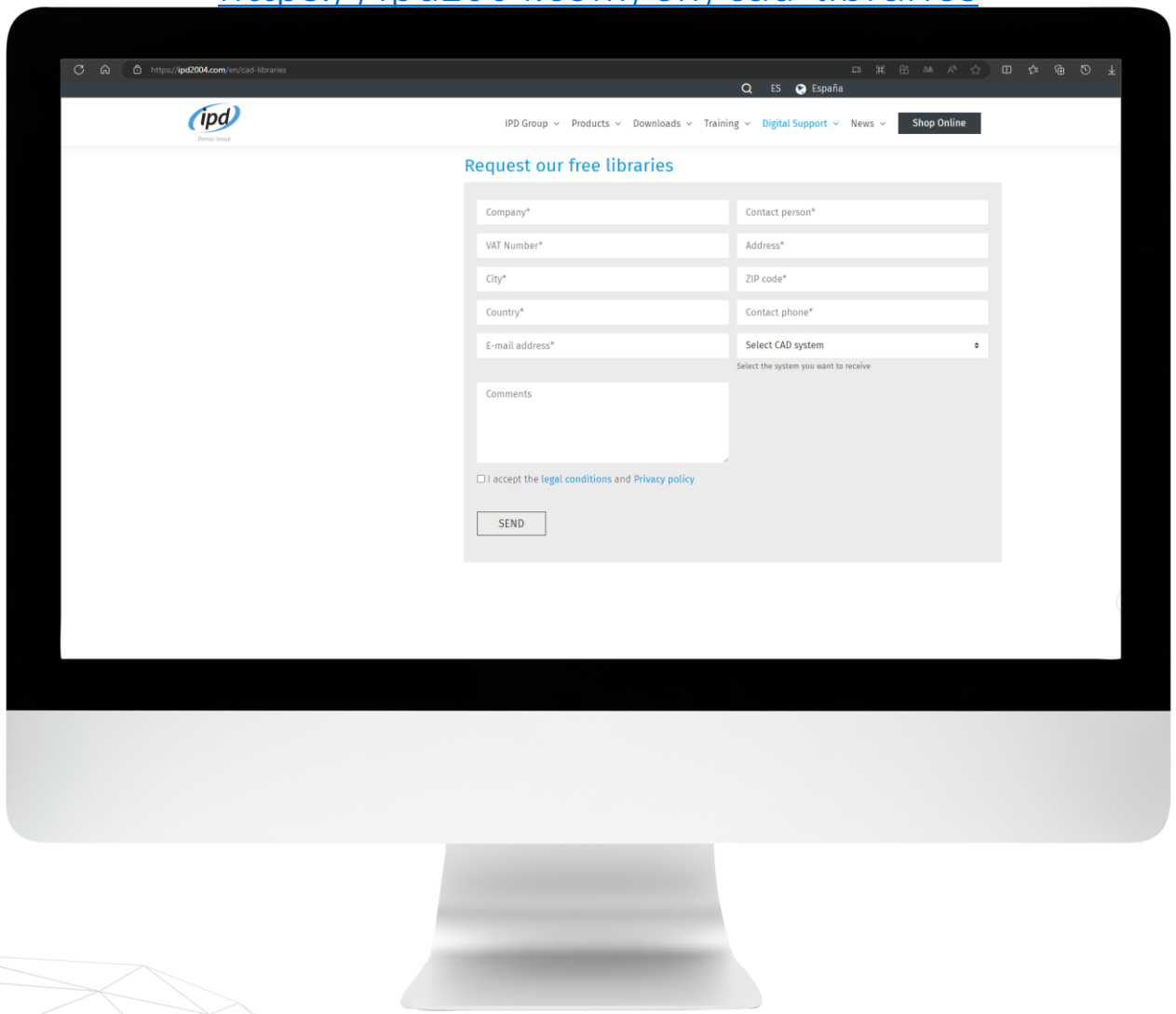
Library types and use

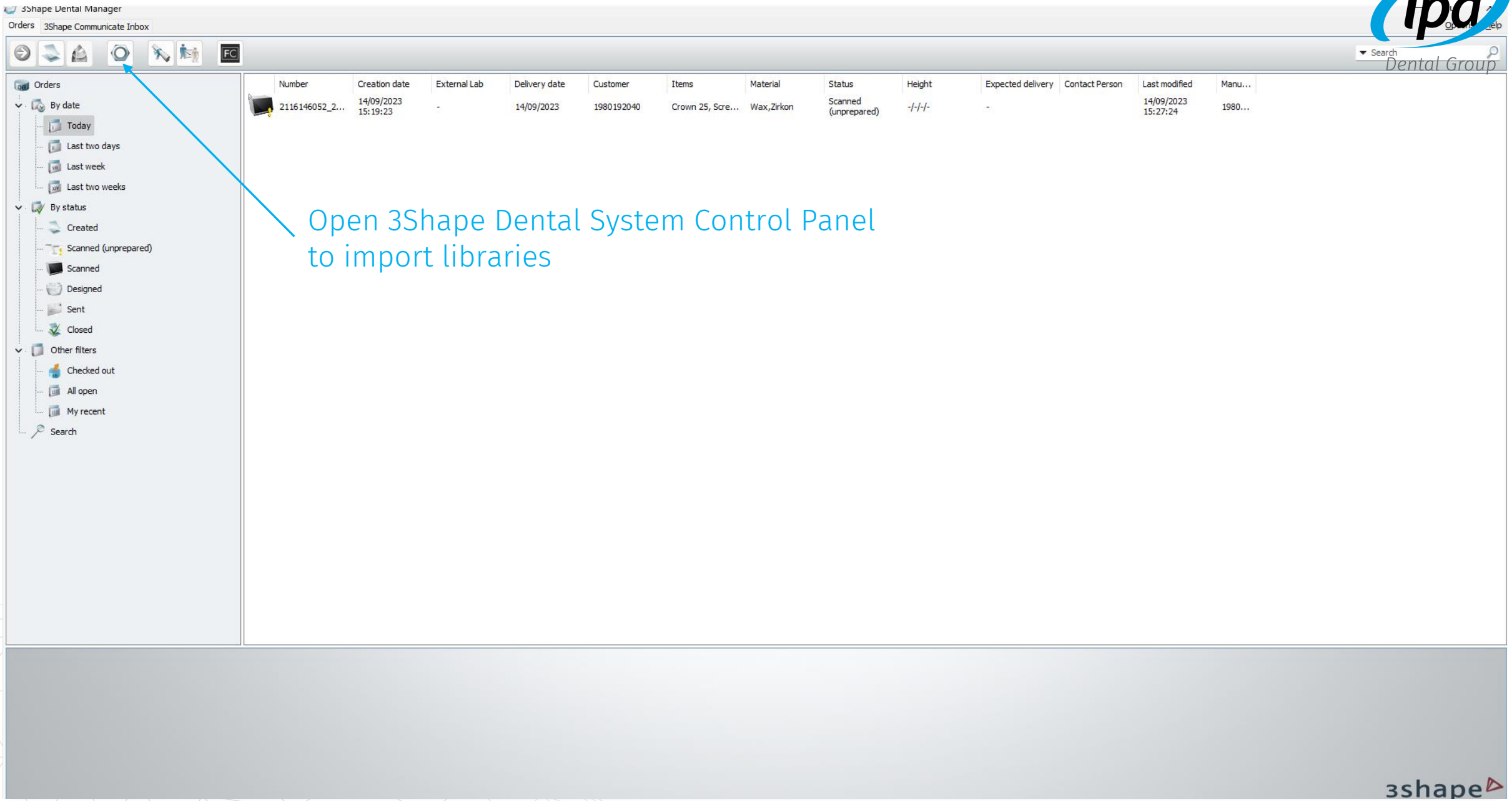


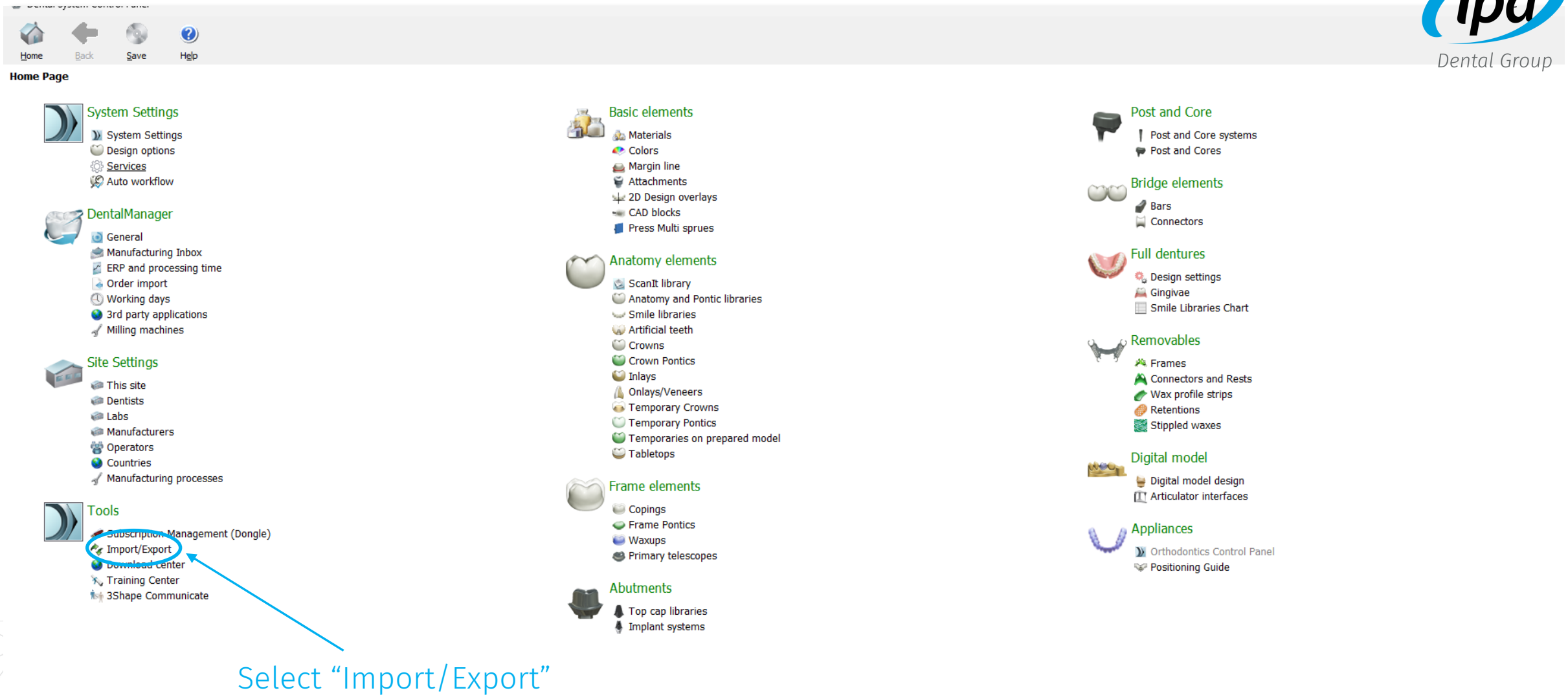
3D Analog side screw

Request libraries from the website

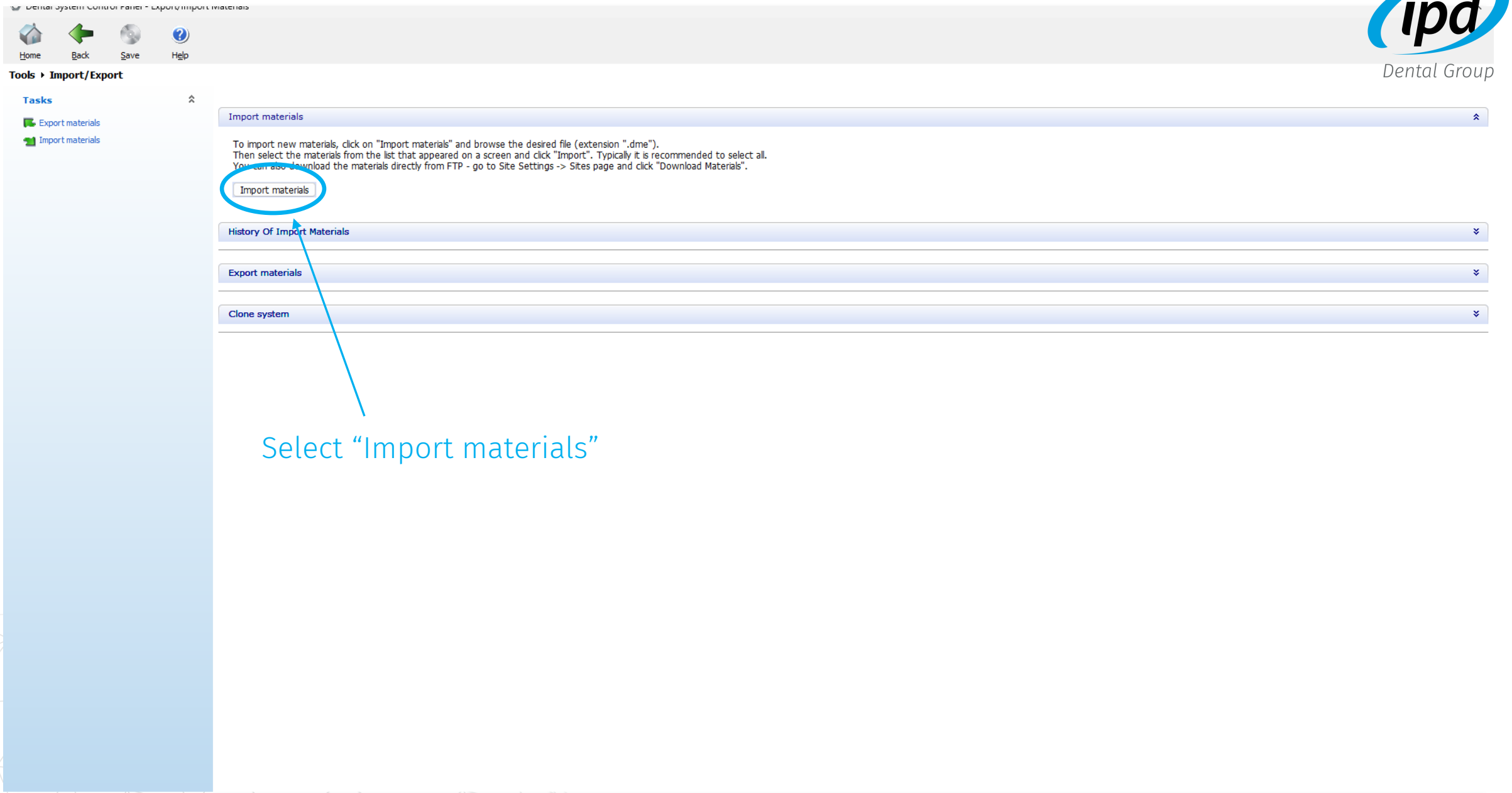
https://ipd2004.com/en/cad-libraries




3Shape Dental Manager
Orders
3Shape Communicate Inbox
Search
Orders
By date
Today
Last two days
Last week
Last two weeks
By status
Created
Scanned (unprepared)
Scanned
Designed
Sent
Closed
Other filters
Checked out
All open
My recent
Search
Number
Creation date
External Lab
Delivery date
Customer
Items
Material
Status
Height
Expected delivery
Contact Person
Last modified
Manu...
2116146052_2...
14/09/2023 15:19:23
-
14/09/2023
1980192040
Crown 25, Scre...
Wax,Zirkon
Scanned (unprepared)
-/-/-/-
-
14/09/2023 15:27:24
1980...
Open 3Shape Dental System Control Panel
to import libraries

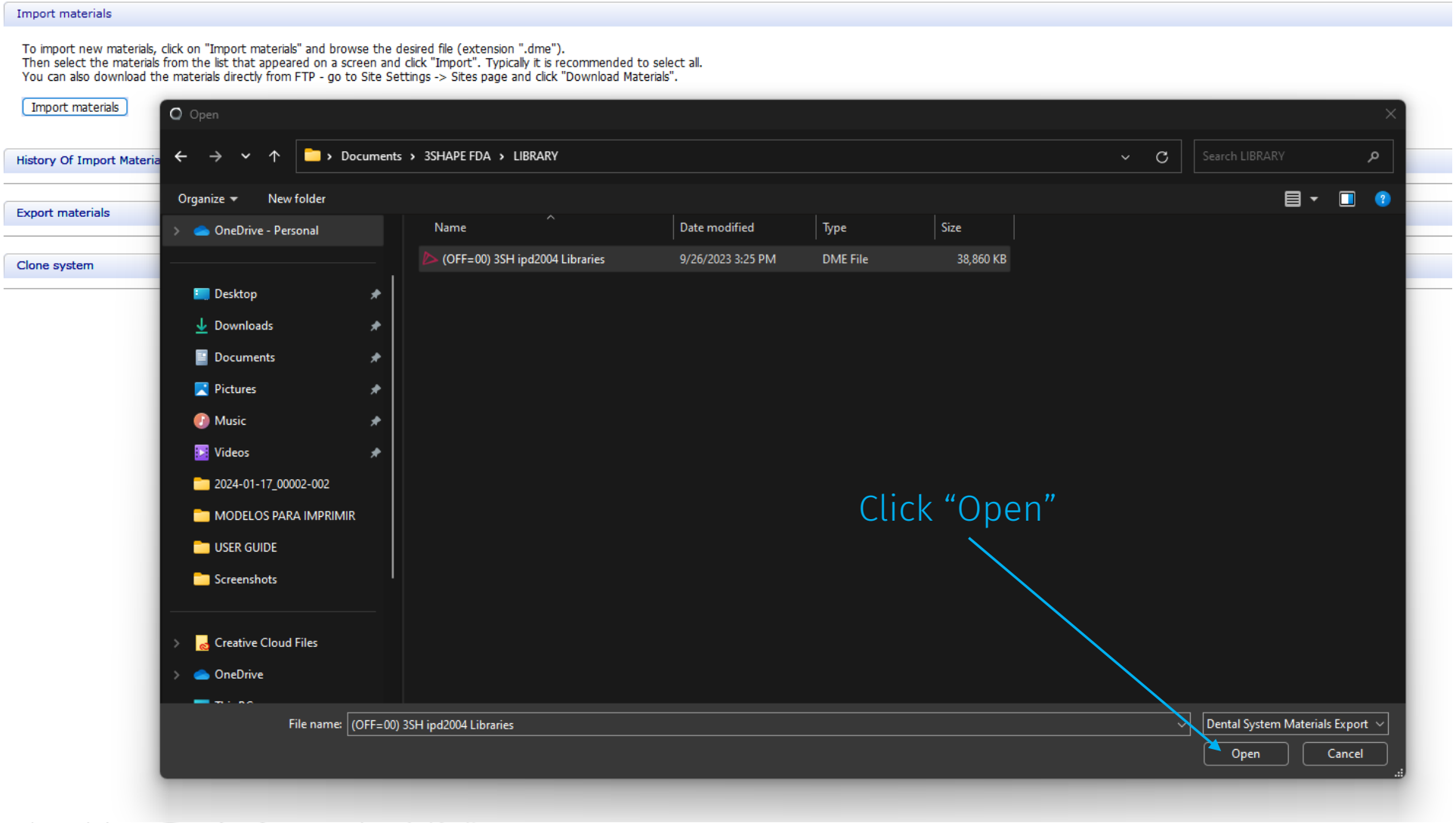


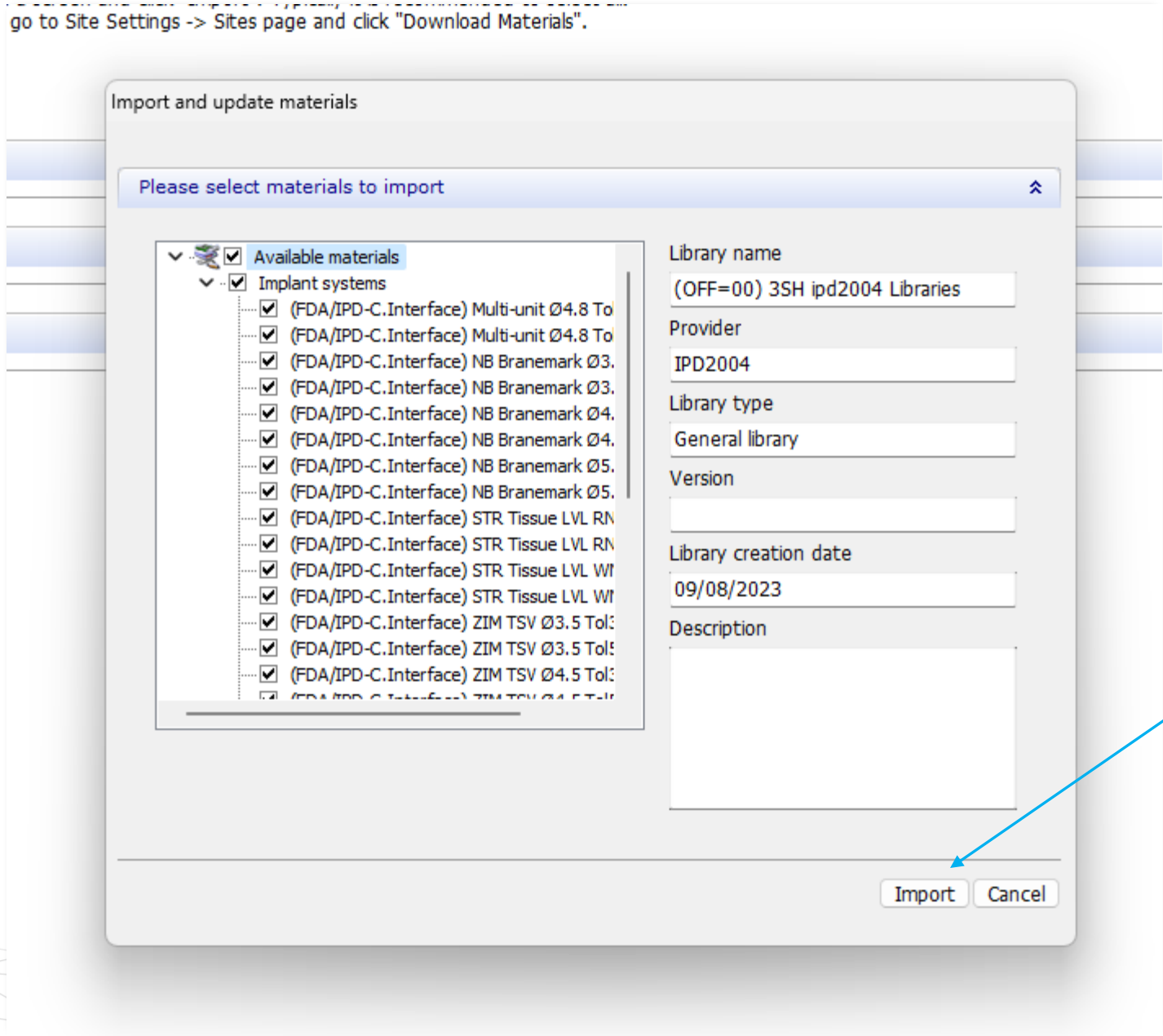
Select “Import/Export”



Select “Import materials”

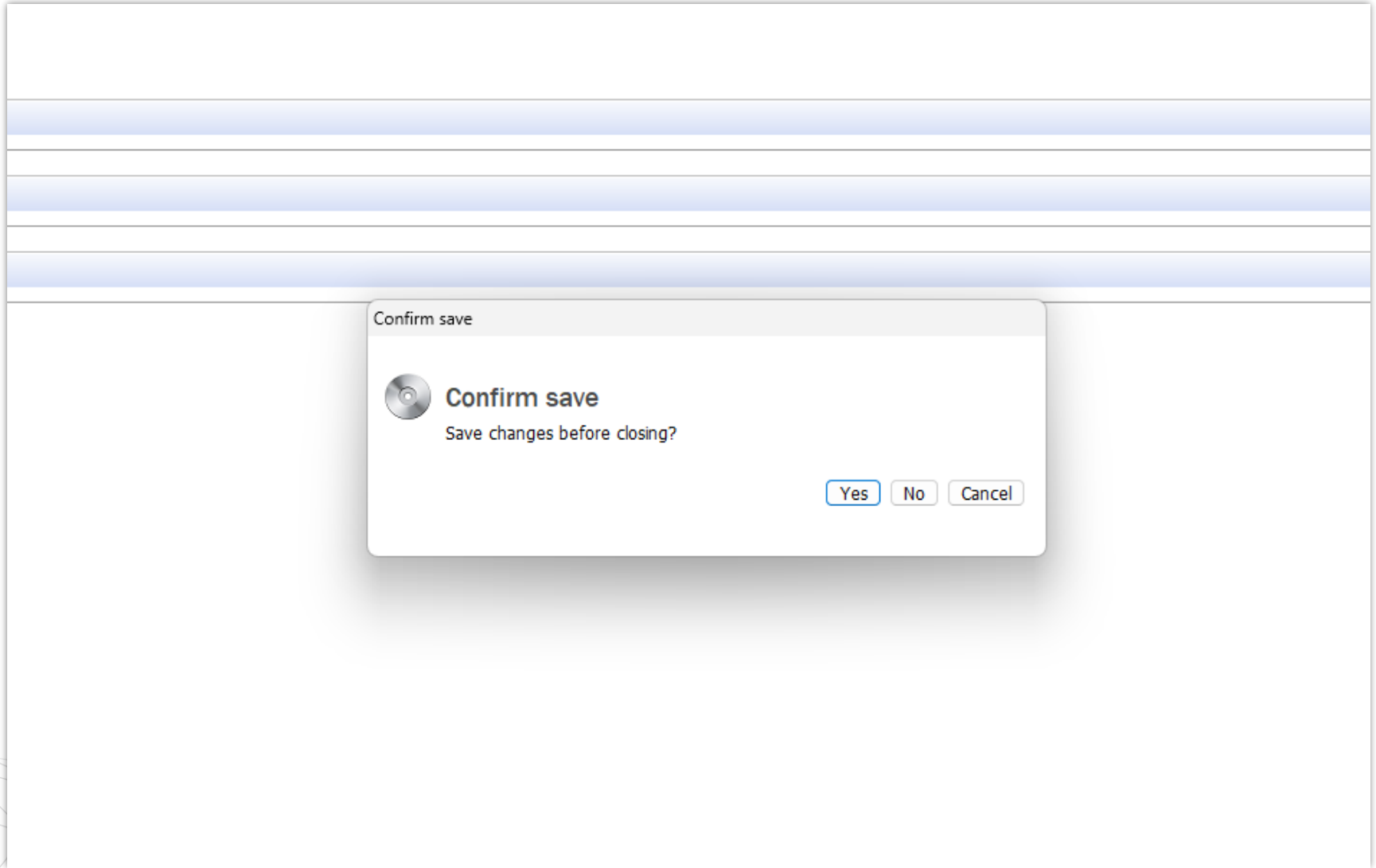
Import the relevant DME file previously downloaded and unzipped





Click “Import”

Save changes before close 3Shape Dental System Control Panel



Library types

Scan Abutment

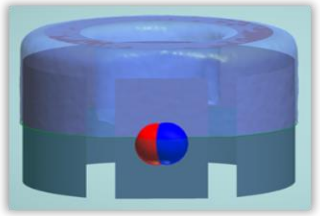
Scan Transfer

Back to Library types

Scan Abutment Libraries

Ti-Base level

Implant Level

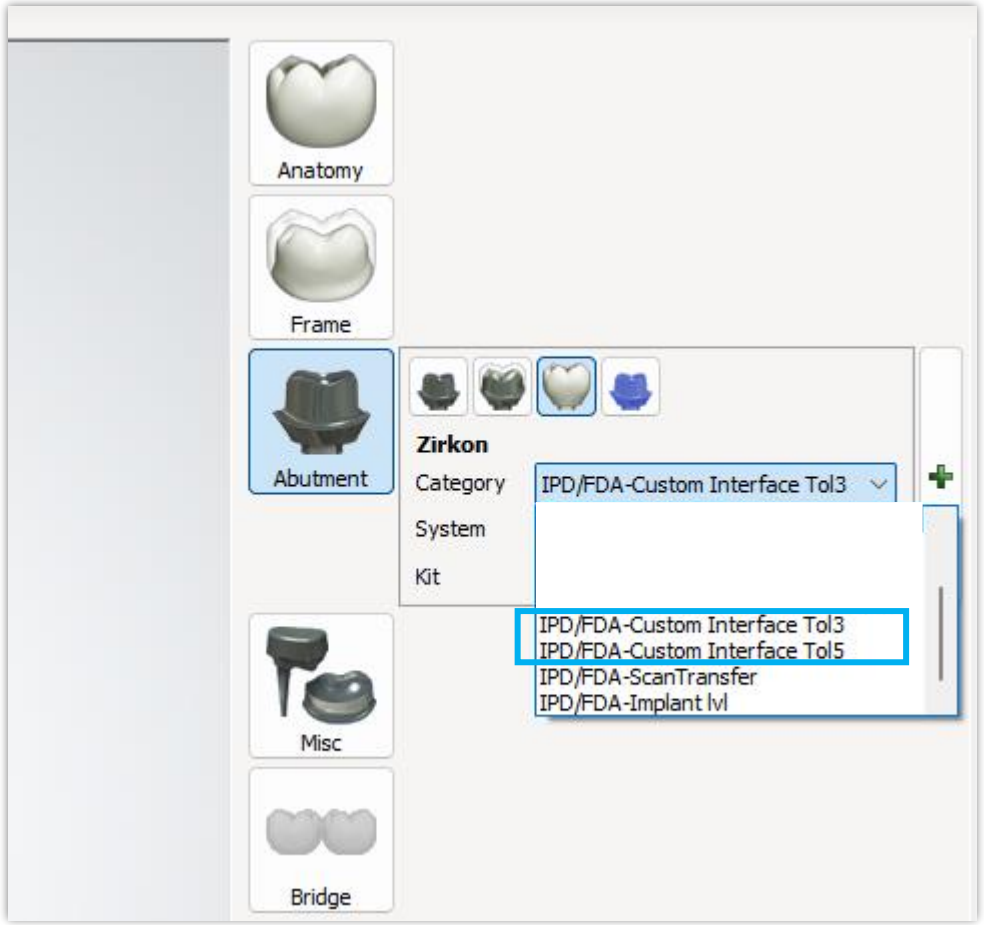


CAD alignment, ASC & design

Category

- **IPD/FDA – Custom Interface Tol3:**
  Ti-base level libraries supporting a 30 microns cement gap (usually recommended for single crowns)

- **IPD/FDA – Custom Interface Tol5:**
  Ti-base level libraries supporting a 50 microns cement gap (usually recommended for multiple frameworks)



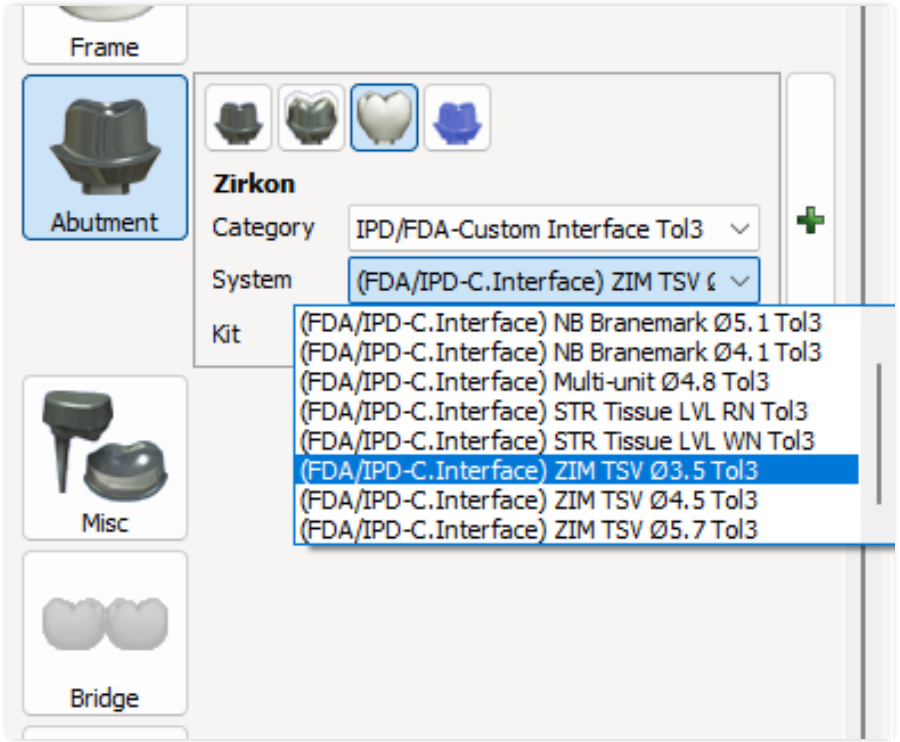
Custom Ti-Base

System

- **Ti-Base Level**

  Each of the supported implant systems is shown through a codding System

  - Brand code (ie.: ZIM = Zimmer)
  - Implant System code (ie.: TSV = Tappered Screw Vent)
  - Implant platform (ie.: 3,5 , NP ...)
  - Tol__ (already selected through “Category”)

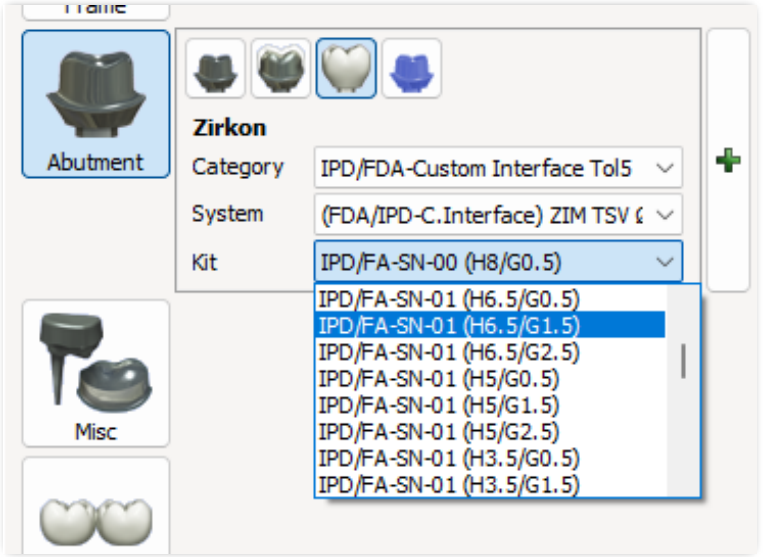


Custom Ti-Base

Kit

All IPD library files are using Scan abutment reference code to drive the whole selection.

When using Custom Interface Ti-base library, after the Scan Abutment code will be finding additional values as per Ti-base features



IPD/FA – SN – 0* (H6.5/G1.5)

Brand Platform

Eng/Non Eng

- 00 → Engaging 10mm Scan Body
- 02 → Engaging 15mm Scan Body
- 01 → Non-Engaging Scan Body

Ti-Base wall Height

ENG: 8 – 6,5 – 5 – 3,5

NON-ENG: 6,5* – 5* – 3,5

*Avialibility to be confirmed

Gingival height*

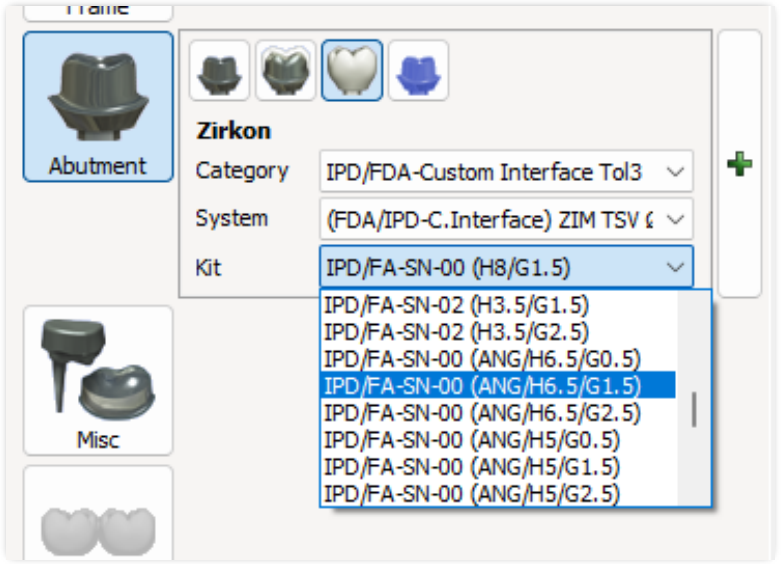
Low - Mid – High - Extra

* Available hights may differ depending on implant system

Custom Ti-Base

Kit

For those cases needing from ASC design, select the relevant “ANG Library”.
These can be find when scroling down onto the wizard



IPD/FA – SN – 0* (ANG/H6.5/G1.5)

Brand Platform

ASC design

Eng/Non Eng

- 00 → Engaging 10mm Scan Body
- 02 → Engaging 15mm Scan Body
- 01 → Non-Engaging Scan Body

Ti-Base wall Height

ENG: 8 – 6,5 – 5 – 3,5
NON-ENG: 6,5* – 5* – 3,5
*Avialibility to be confirmed

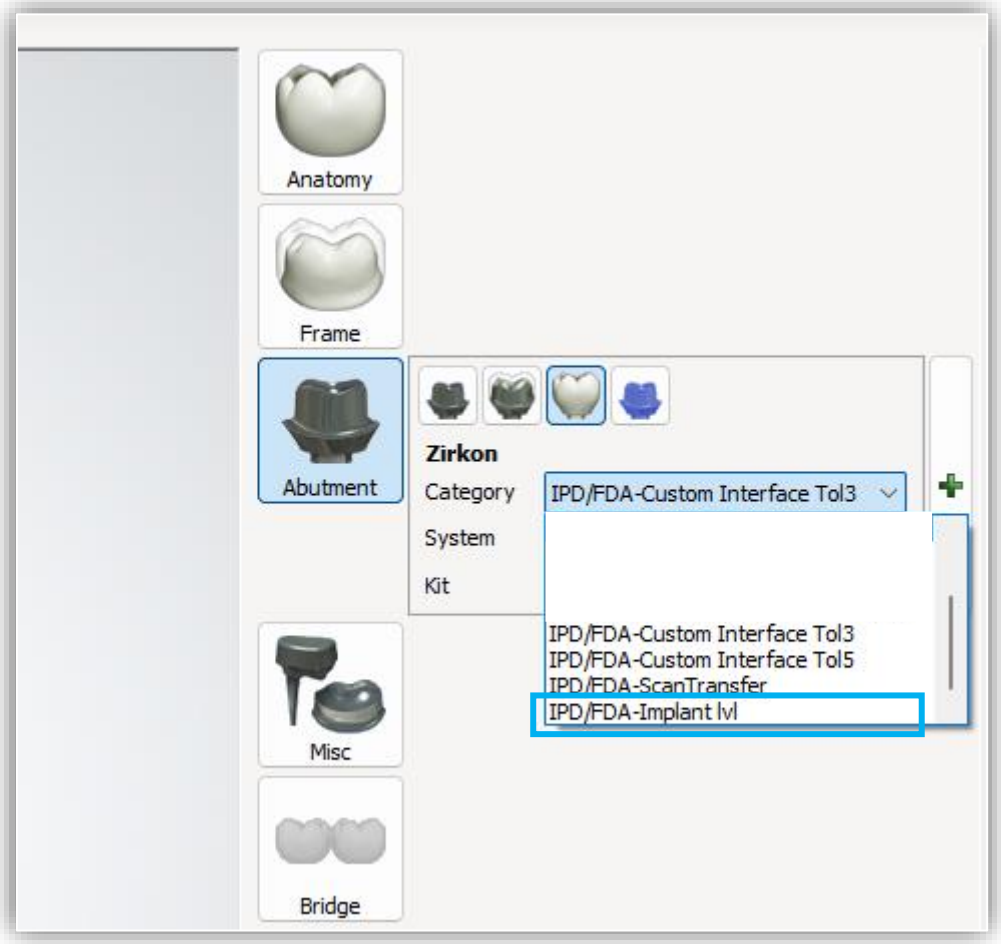
Gingival height*

Low - Mid – High – Extra
* Available hights may differ depending on implant system

Custom ASC Ti-Base

Category

IPD/FDA – Implant lvl: Implant level libraries (at implant connection without abutment)

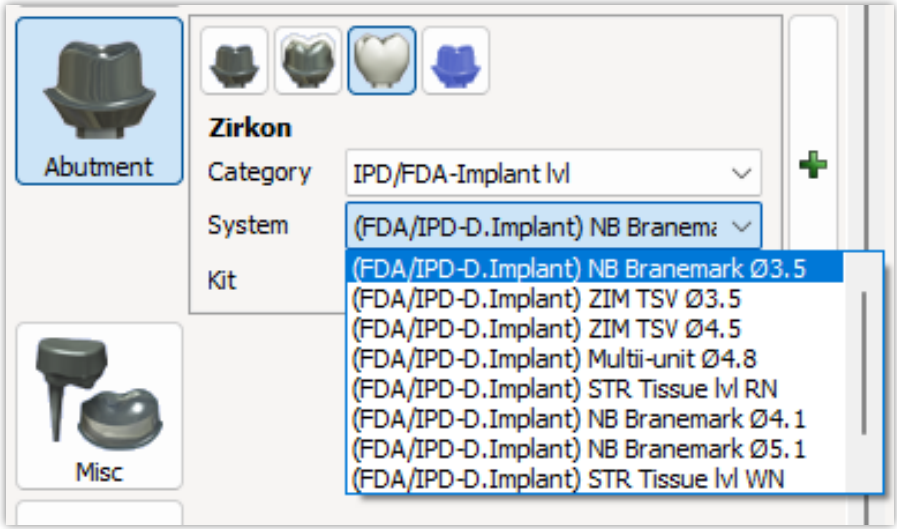


Implant Level

System

Each of the supported implant systems is shown through a codding System

- Brand code (ie.: ZIM = Zimmer)
- Implant System code (ie.: TSV = Tappered Screw Vent)
- Implant platform (ie.: 3,5 , NP ...)



Implant Level

Kit

All IPD library files are using Scan Abutment reference code to drive the whole selection.

When using Implant Direct library, after the Scan Abutment code will be finding additional values as per Ti-base features

IPD/FA – SN – 0*

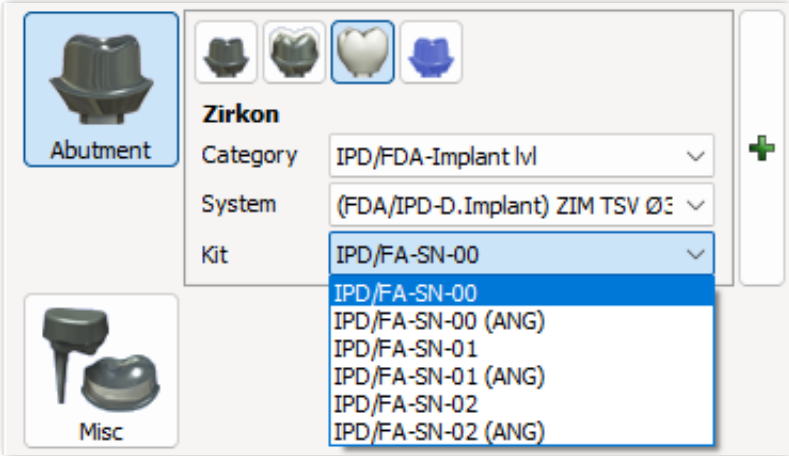
Brand Platform

Eng/Non Eng

- 00 → Engaging 10mm Scan Body
- 02 → Engaging 15mm Scan Body

- 01 → Non-Engaging Scan Body

Implant Level



Kit

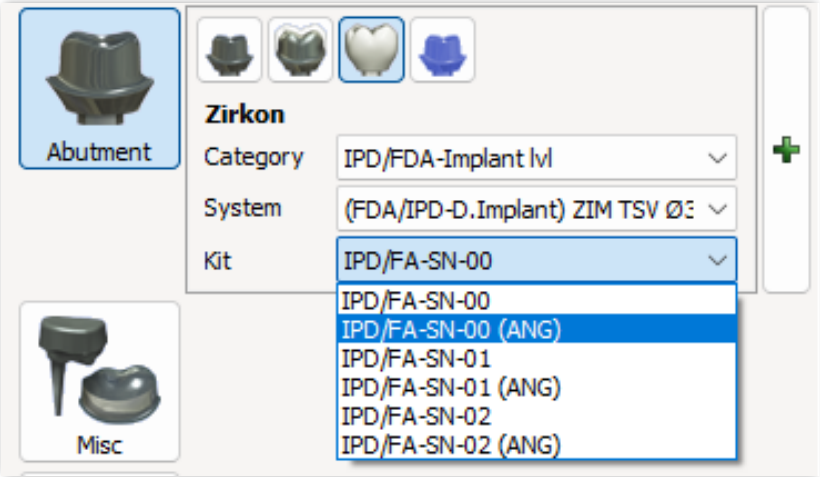
For those cases needing from ASC design, select the relevant “ANG Library”.
These can be find when scroling down onto the wizard

IPD/FA – SN – 0* (ANG)

Brand Platform Eng/Non Eng ASC design

- 00 → Engaging 10mm Scan Body
- 02 → Engaging 15mm Scan Body

- 01 → Non-Engaging Scan Body

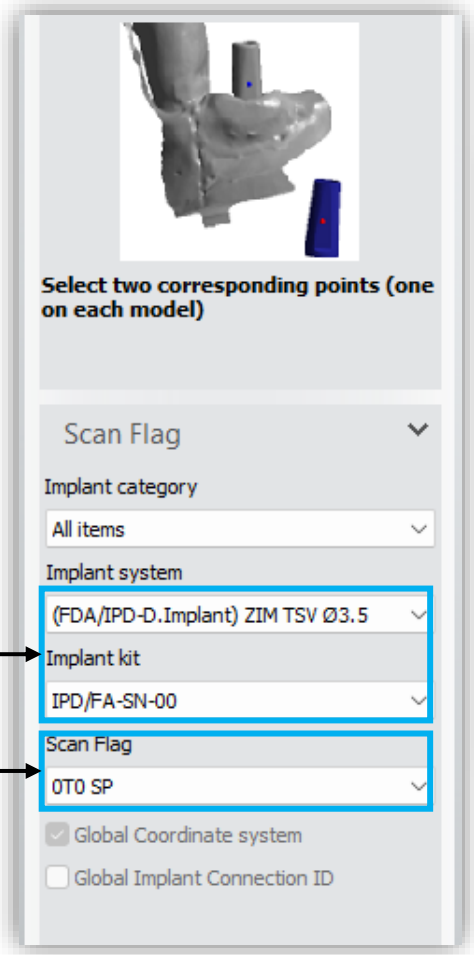


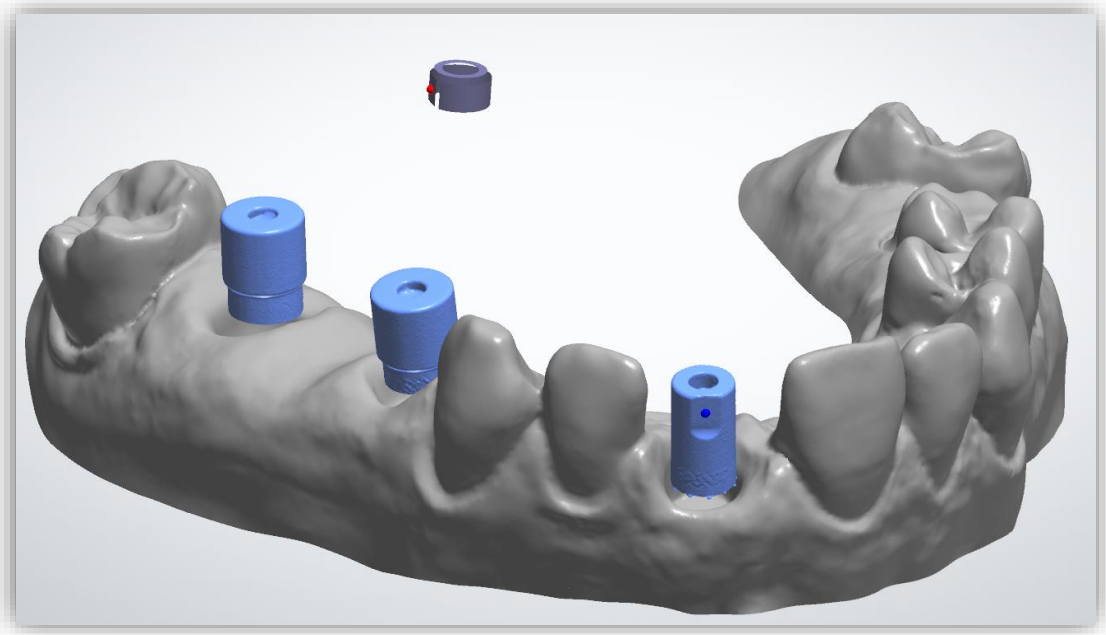
Implant Level

Library alignment

Make sure Implant System and kit are matching with the Order Form selection.

*** Important Advice:**
Even modifying selection, changes won't be applied by 3shape to the actual design. Any required change into library selection needs to be mandatorily driven through the Order Form.





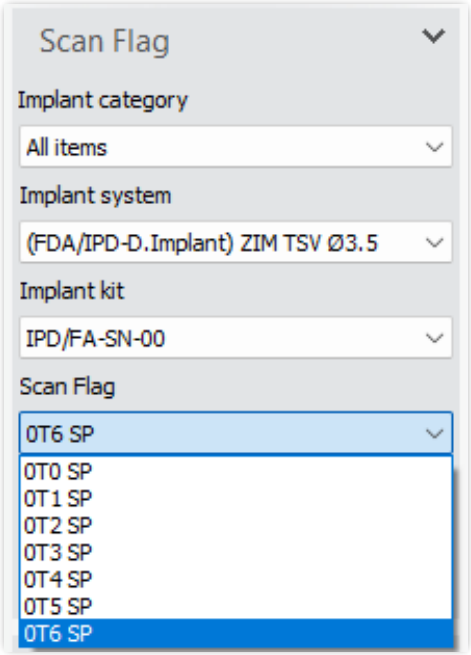
The Scan Flag selection is where to select the Scan Tolerance to improve CAD alignment.
(T0,T1,T2.... Up to T6)

Library alignment

- **Scan Abutment Tolerance tool**
  This tool is dedicated to improve the accuracy of CAD alignment. The industry standard is to provide the STL of each Scan Abutment found in a CAD library under its physical measurement, while each scanning device, for different reasons, is leading to a certain degree of oversizing by default.

- **Tolerance assignment protocol during alignment**
  The following protocol is used to determine which of the 7 different STL files available for each IPD Scan Abutment is showing the best performance when merging the scanning file with the IPD library kit, improving the CAD alignment accuracy no matter the device used.

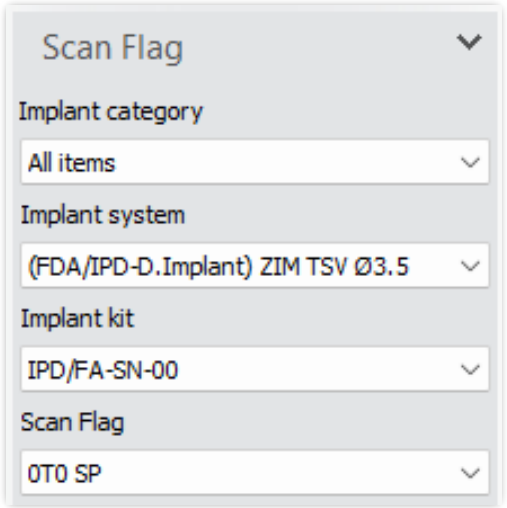
  When performing the STL alignment, the library file showing the largest merging area with the digital file shall be chosen.

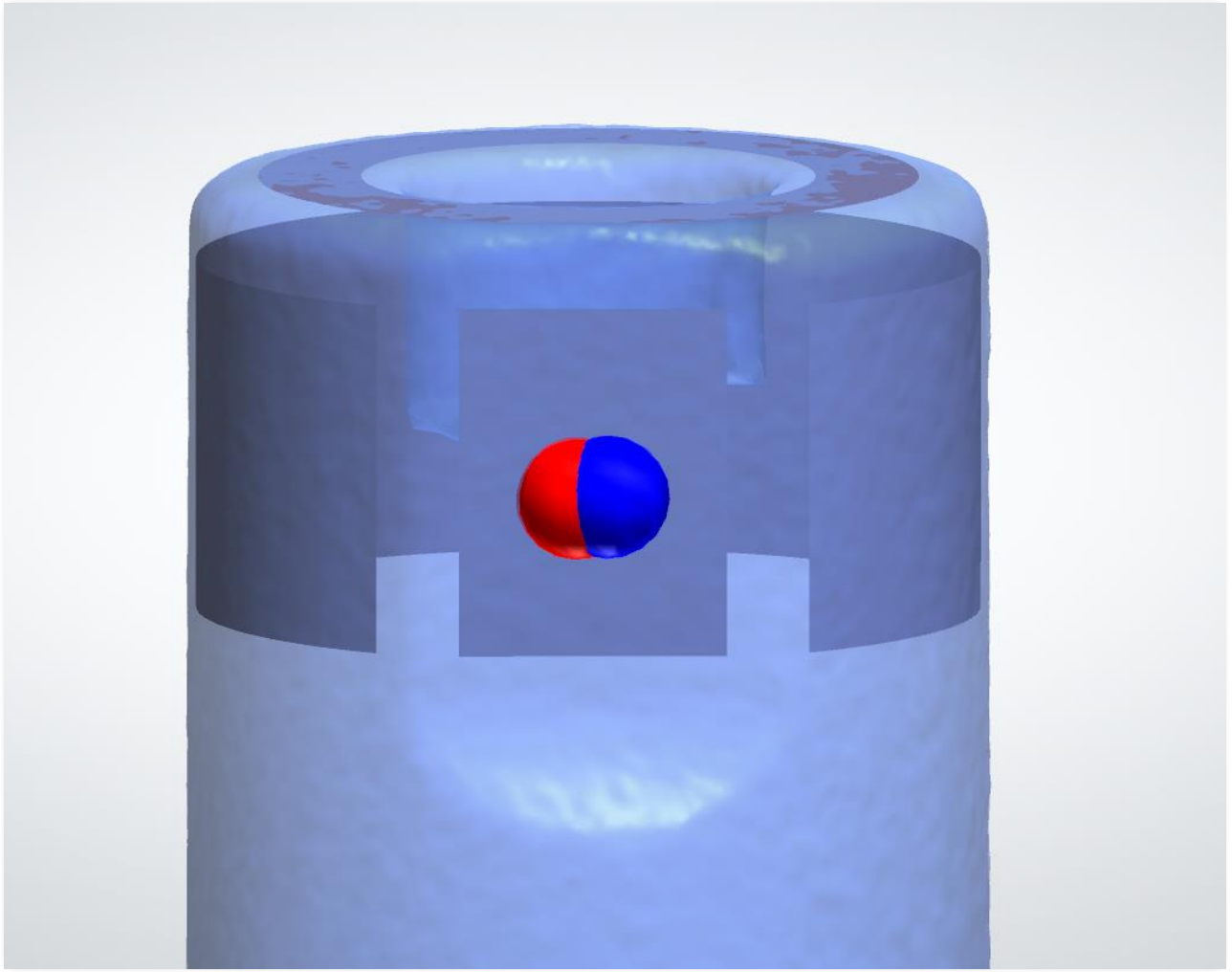


- **T0 - Std STL** (= physical dimension)
- **T1** - Std STL + 10 microns
- **T2** - Std STL + 20 microns
- **T3** - Std STL + 30 microns
- **T4** - Std STL + 40 microns
- **T5** - Std STL + 50 microns
- **T6** - Std STL + 60 microns

Library alignment

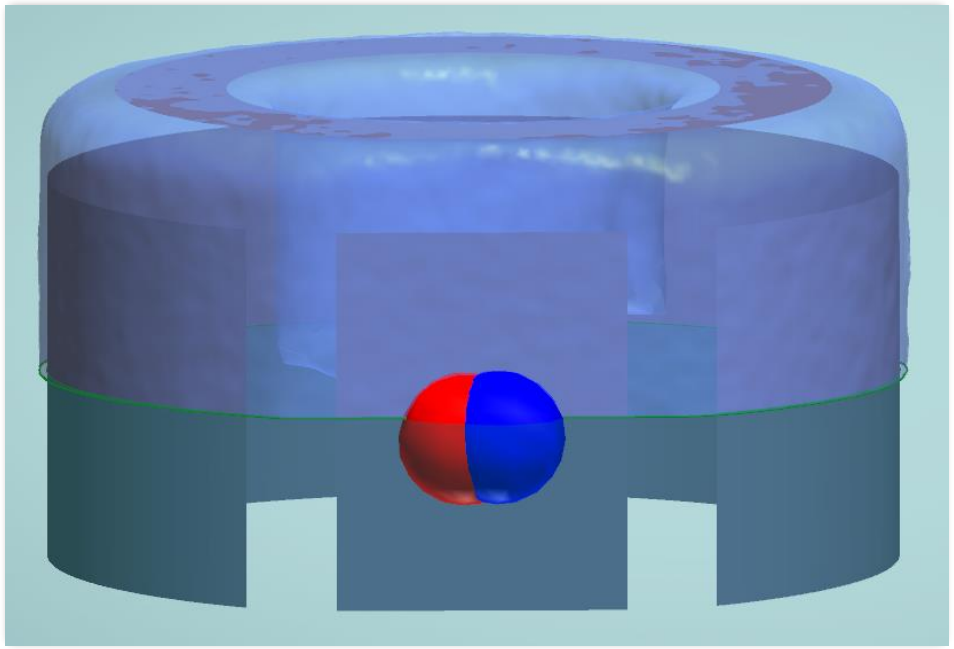
Alingment using “T0” Tolerance

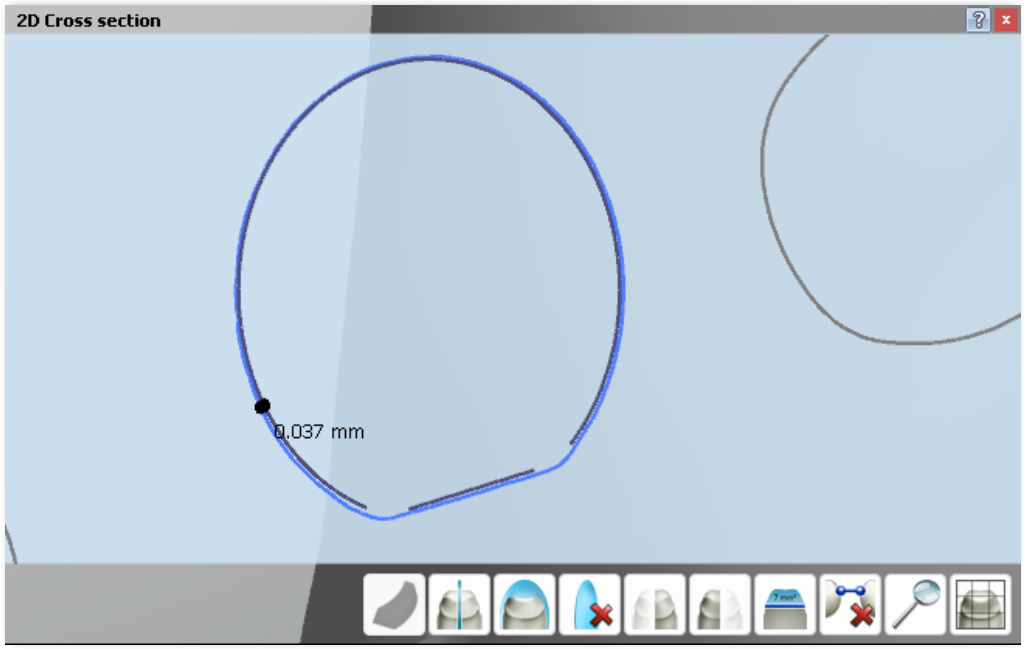


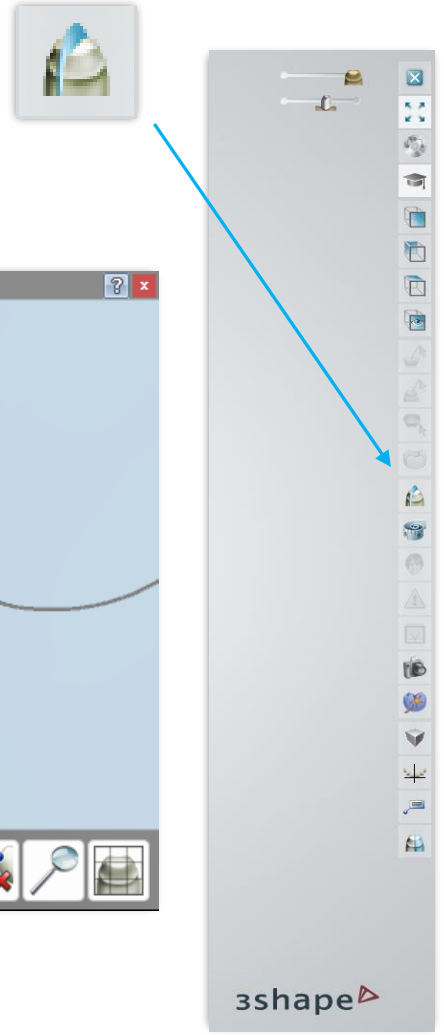


Library alignment

Using the “2D Cut” to evaluate dimensional discrepancy

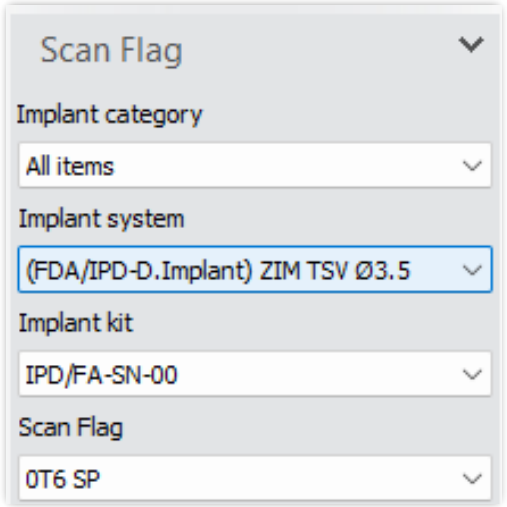


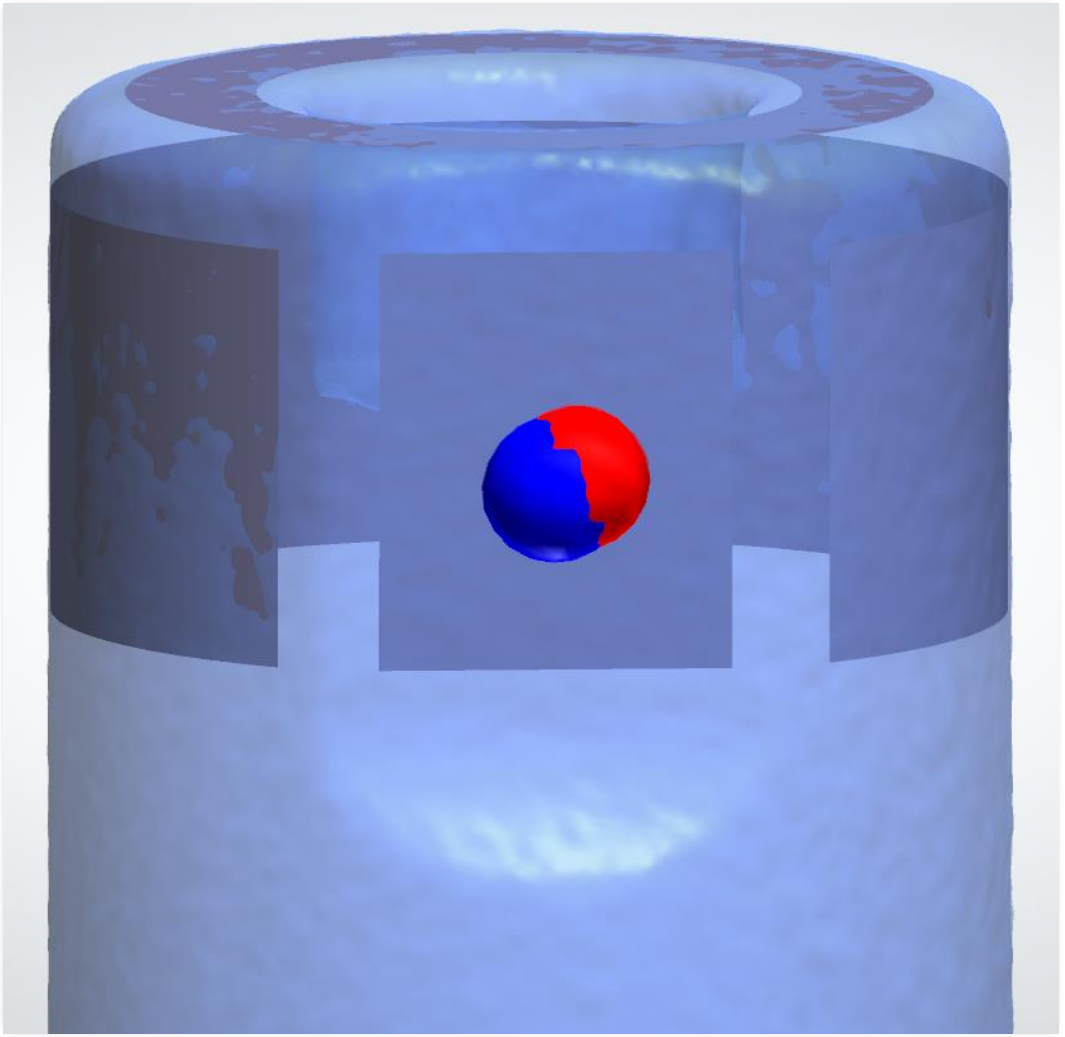




Library alignment

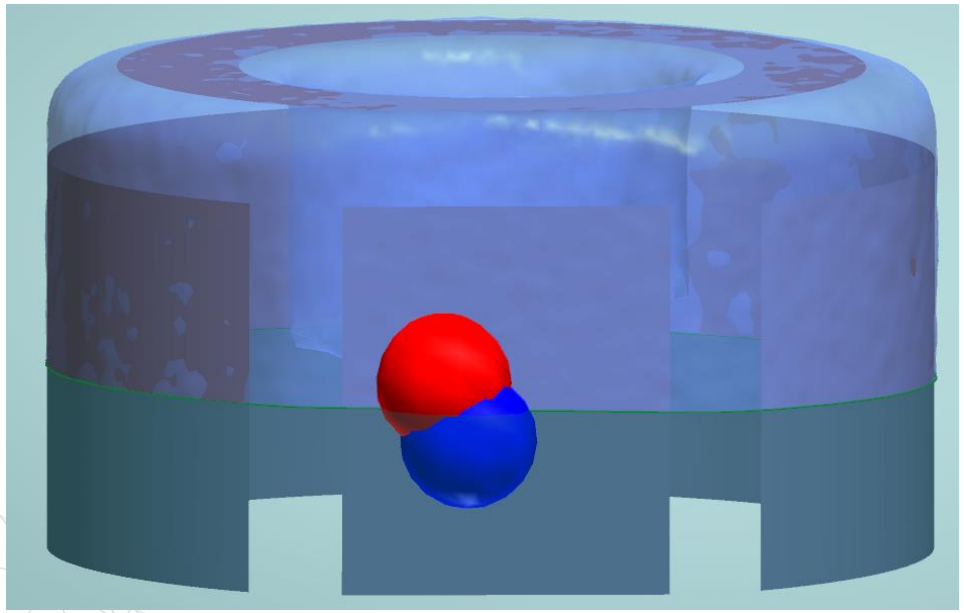
Alingment using “T6” Tolerance

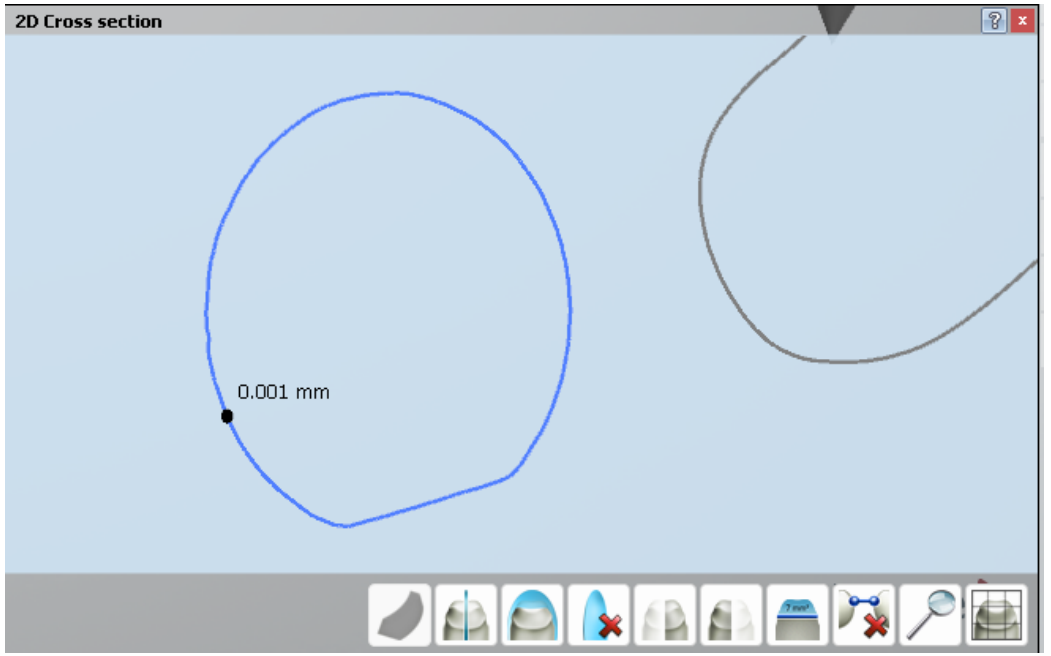


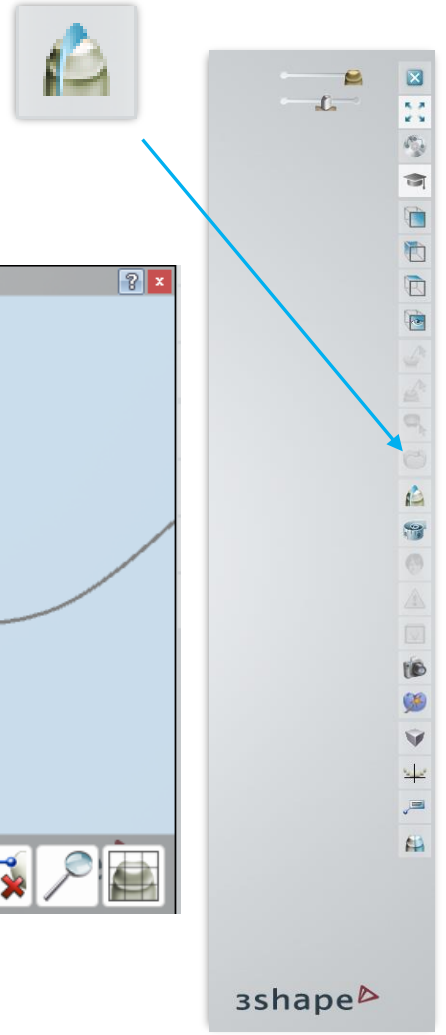


Library alignment

Using the “2D Cut” to evaluate dimensional discrepancy

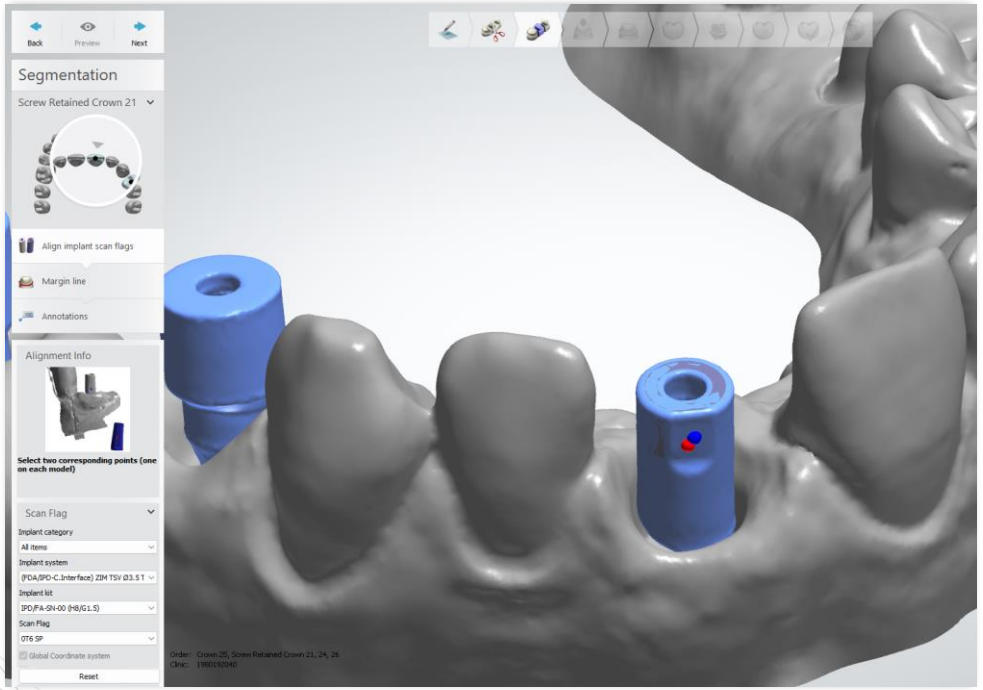






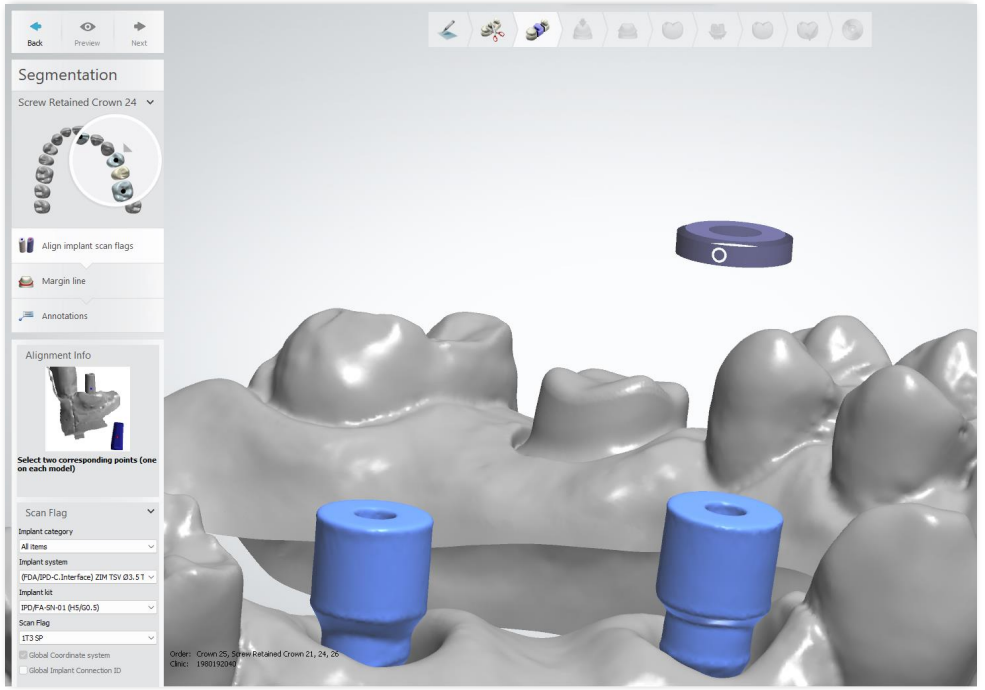
ASC Guidance

- **ASC Design – Guiding the screw channel**
  When usign ASC library, 3Shape will drive the angulation differently for Engaging and Non-Engaging abutments



Engaging

On single crowns the ASC feature will be related to the Scan Abutment head geometry (flat facet)



Non-Engaging

On multiple frameworks the ASC feature will be free enabling a 360 degrees choose.

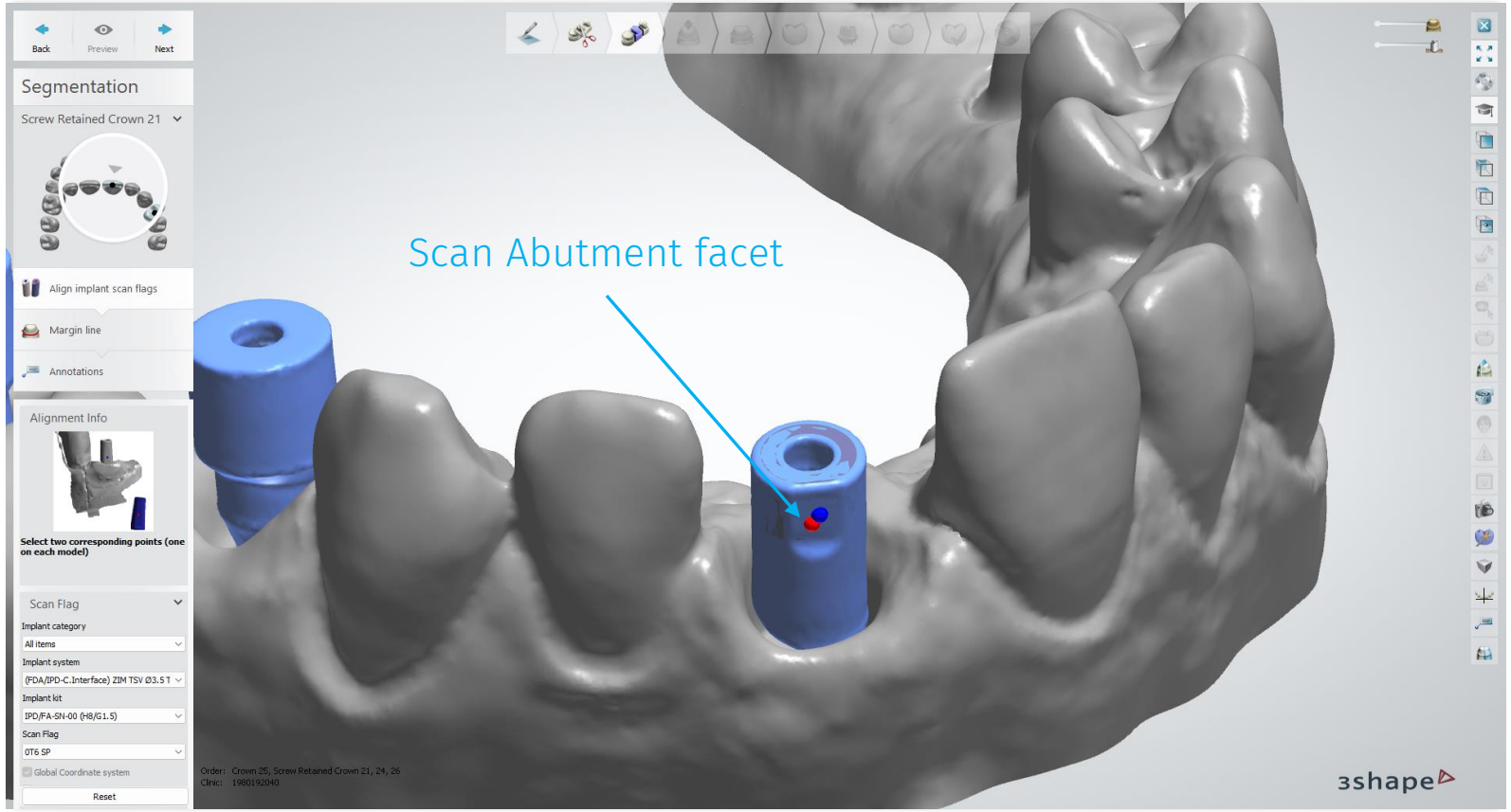
ASC Guidance

- **Engaging**

When usign Engaging ASC library, 3Shape will drive the angulation in the opposite direction to Scan Abutment facet.

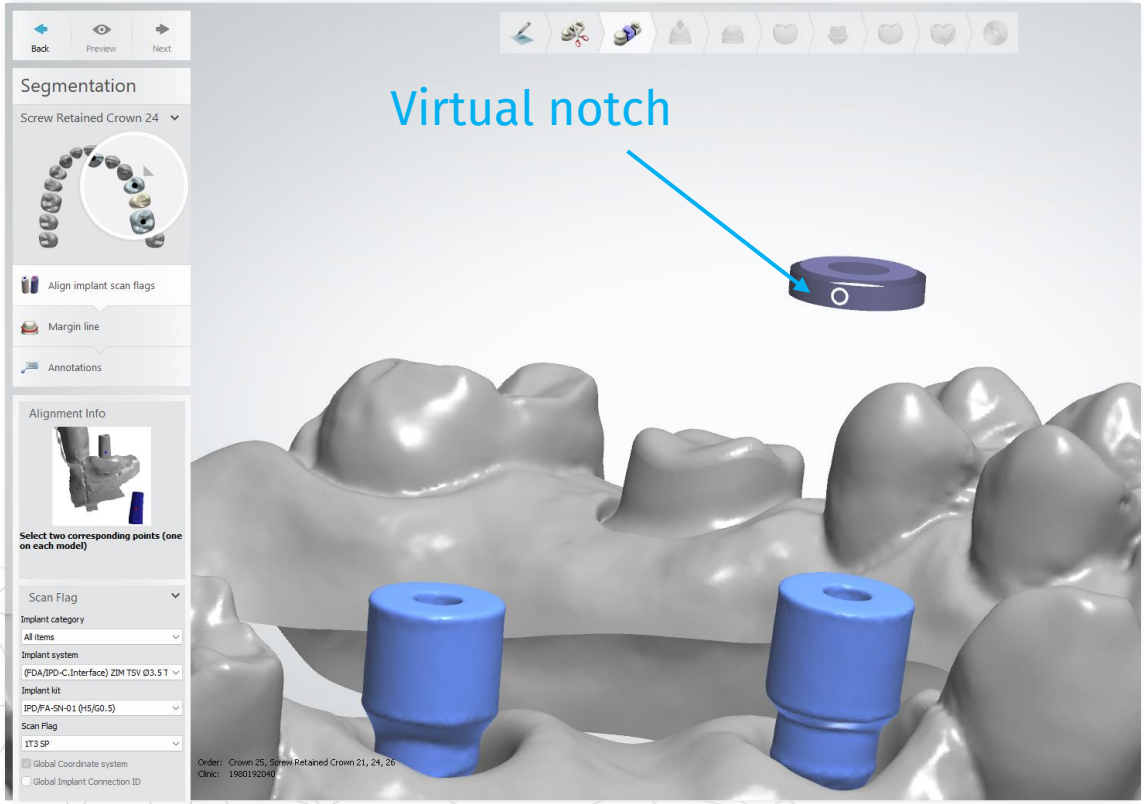
*** Advice:**

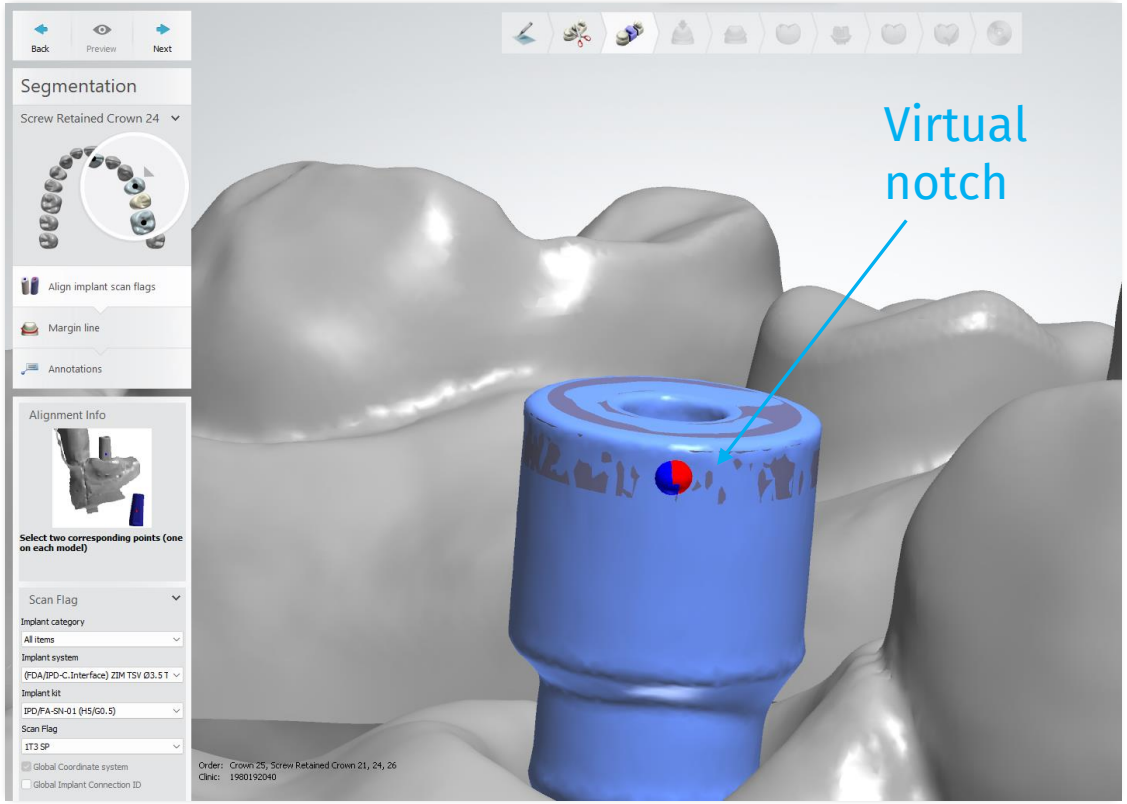
Despite 3Shape enables to virtualy twist the Ti-base according to the implant connection, we do recommend to always place the Scan Abutment flat facet into its more vestibular facing as will also be driving the facing of the 3D analogue side screw.



ASC Guidance

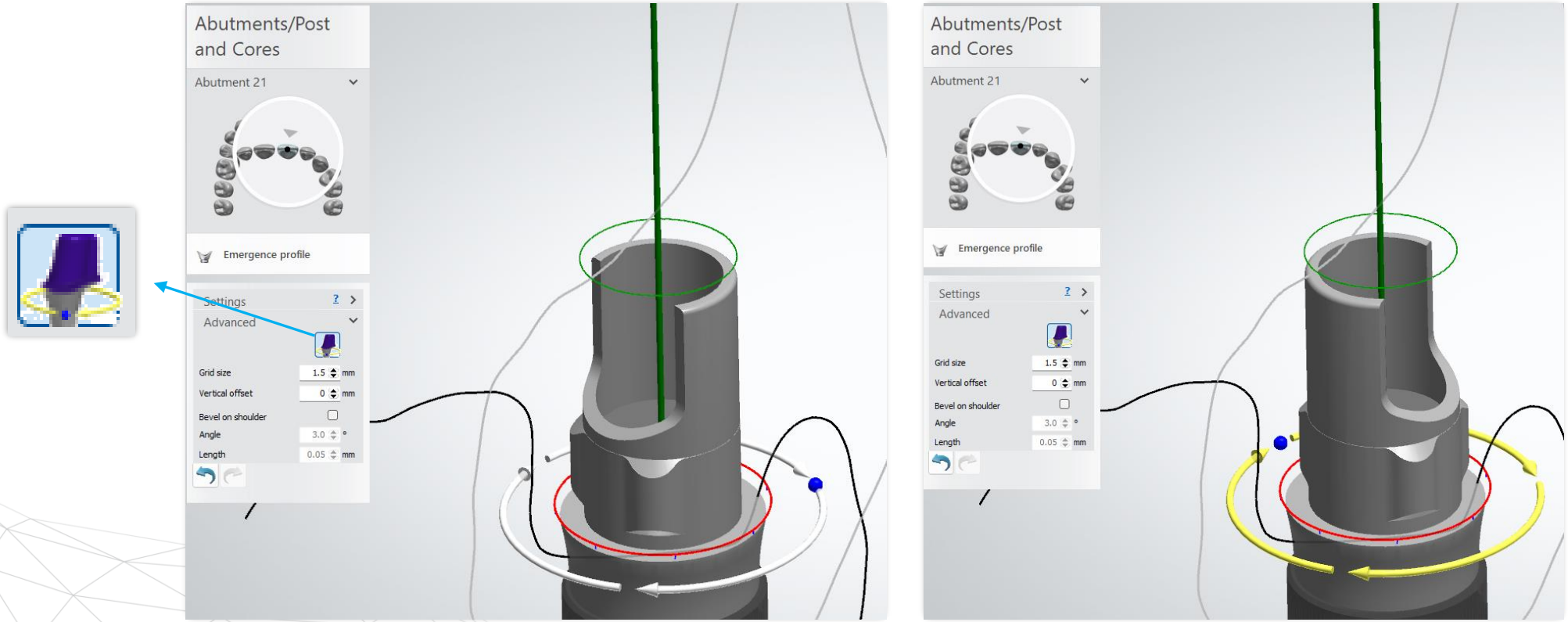
- **Non-Enagaging**
  When using Non-Engaging ASC library, 3Shape will drive the ASC to the opposite were clicking on into the scanning file when aligning.





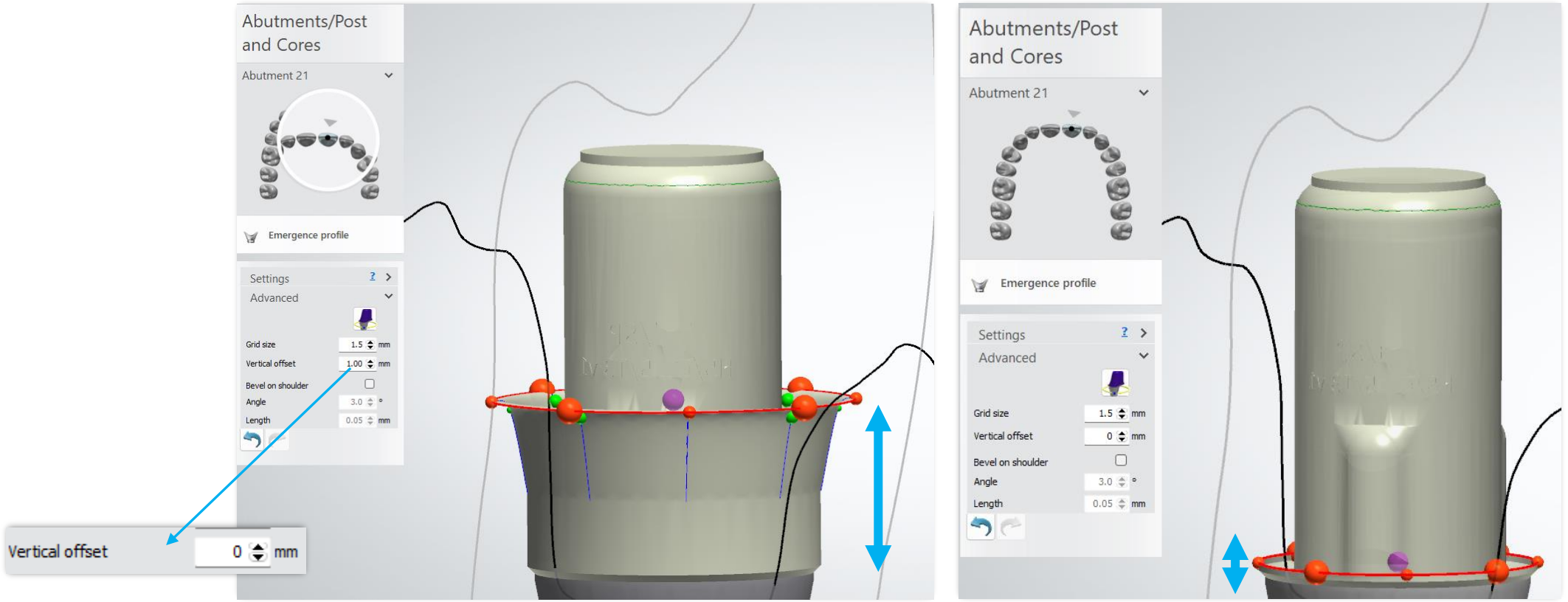
ASC Ti-base Guidance

- **ASC Ti-base guidance for engaging abutments**
  During the design step “Abutments/Post and Cores”, it is possible to rotate the ASC Ti-base window to the desire position to ensure matching with a suitable ASC channel.
  The available positions will be related to the corresponding implant System geometry.

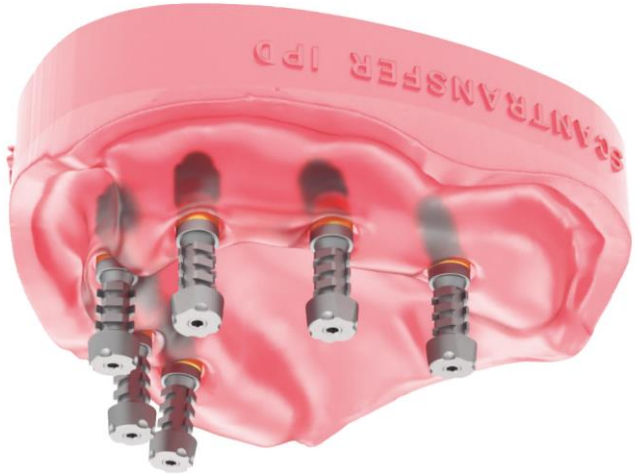


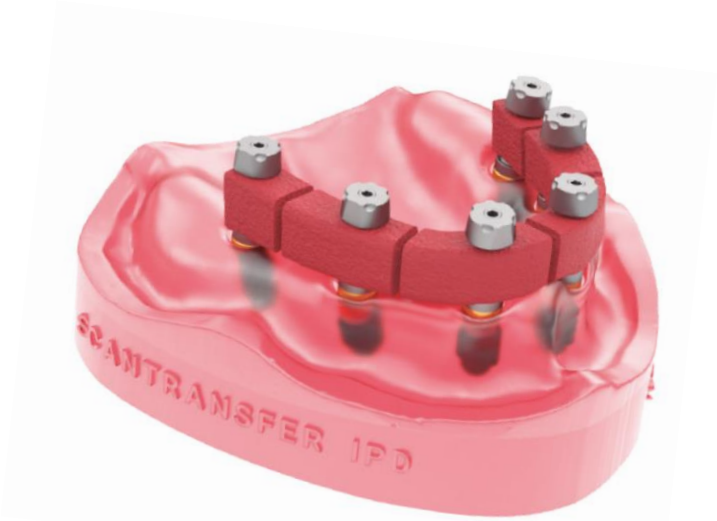
Emergence profile design

- **Changing emergence profile limits**
  During the design step “Abutments/Post and Cores”, it is possible to modify the default software parameters to enable designing the emergence profile from the lowest point.
  Change “Vertical offset” setting value to 0.



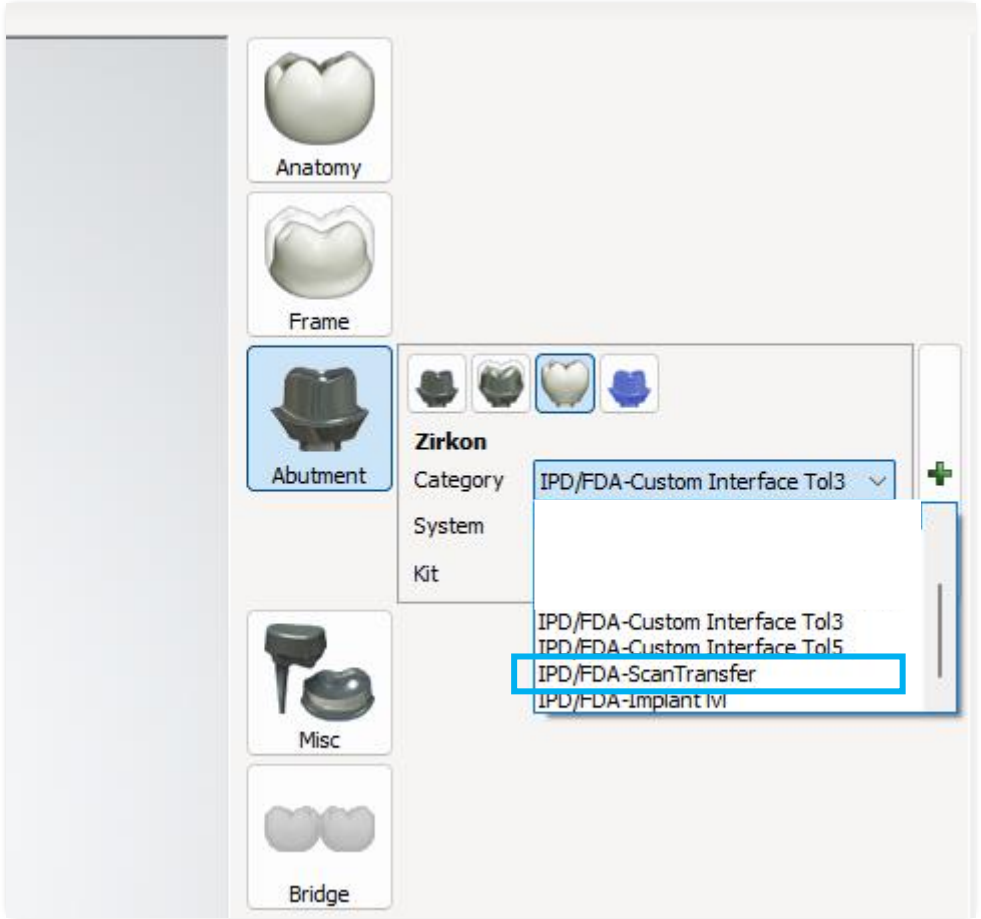
Scan Transfer





Category

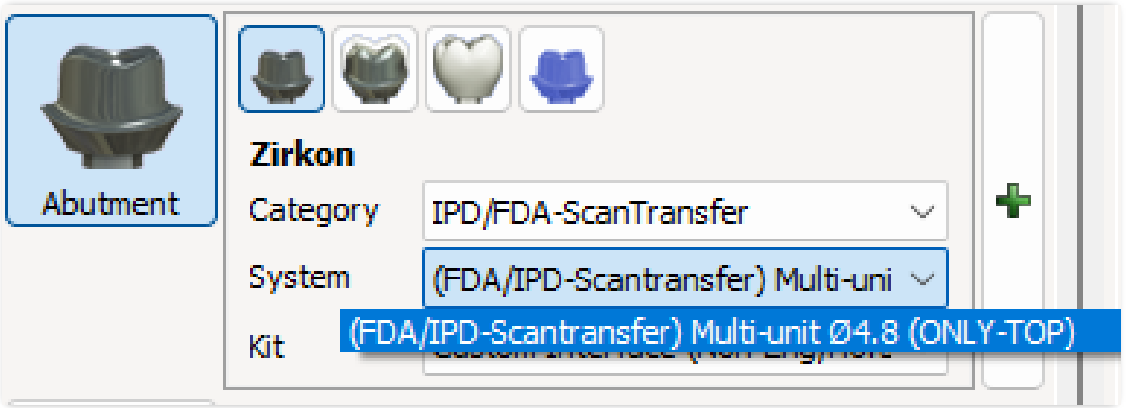
IPD/FDA – ScanTransfer:
Dedicated Scan Transfer Libraries



Scan Transfer

System

After selecting “IPD/FDA-ScanTransfer” category, choose the only option available in “System” dropdown menu.

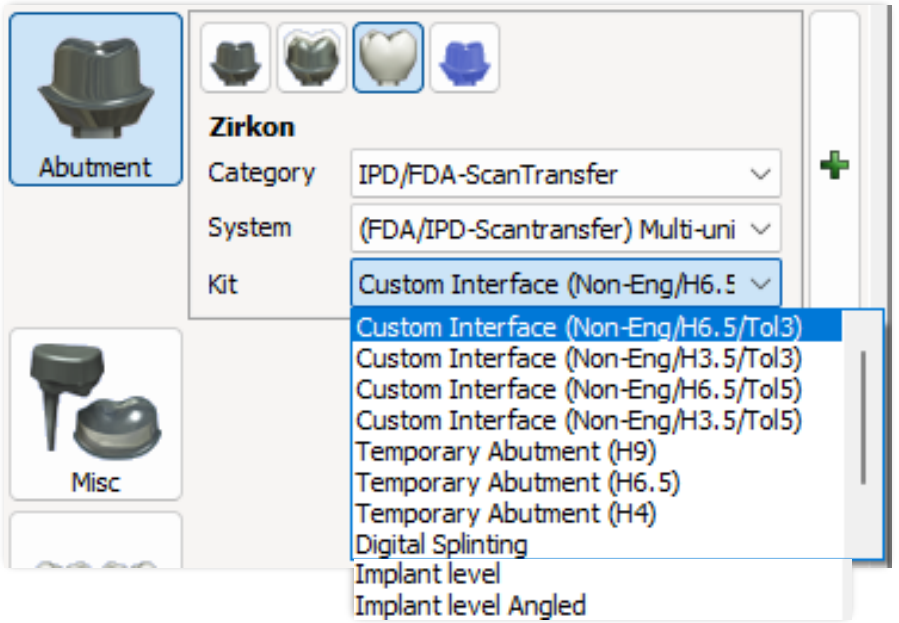


Scan Transfer

Kit

Each of the supported options will be shown as follows:

- **Custom Interface** (ENG/Non-ENG, H6.5-H3.5, Tol3-Tol5)
- **Implant level** (At Mua level without abutment)
- **Temporary abutment** (Supporting different heights H9-H6.5-H4)
- **Digital splinting** (when designing splinting guides)

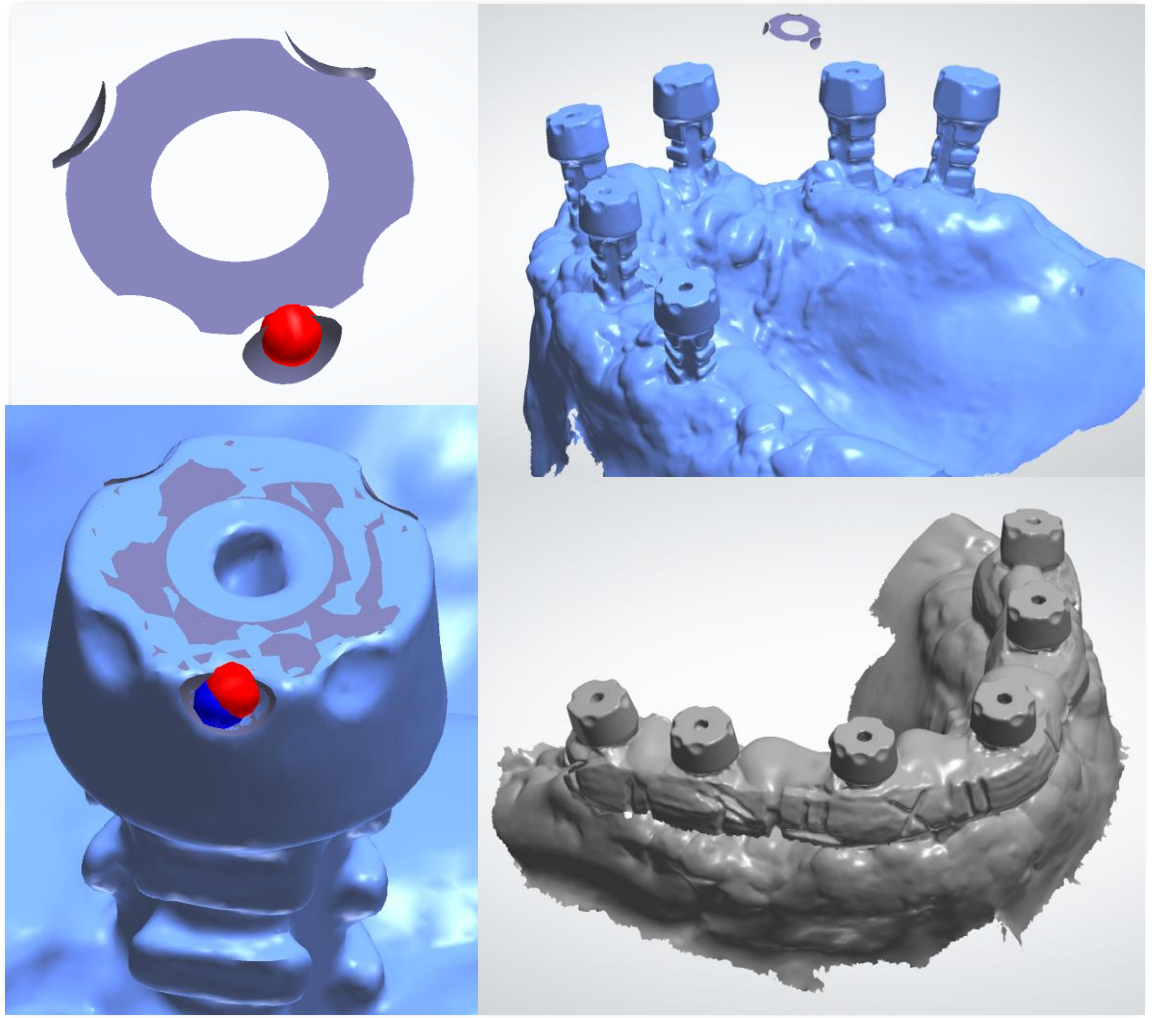


Scan Transfer

Library alignment

Thanks to the IPD Only Top technology, the alignment of Scan Transfer is offering a simple and highly accurate alignmnent protocol.

Use the middle front asymmetrical cut.out to for the alignment.

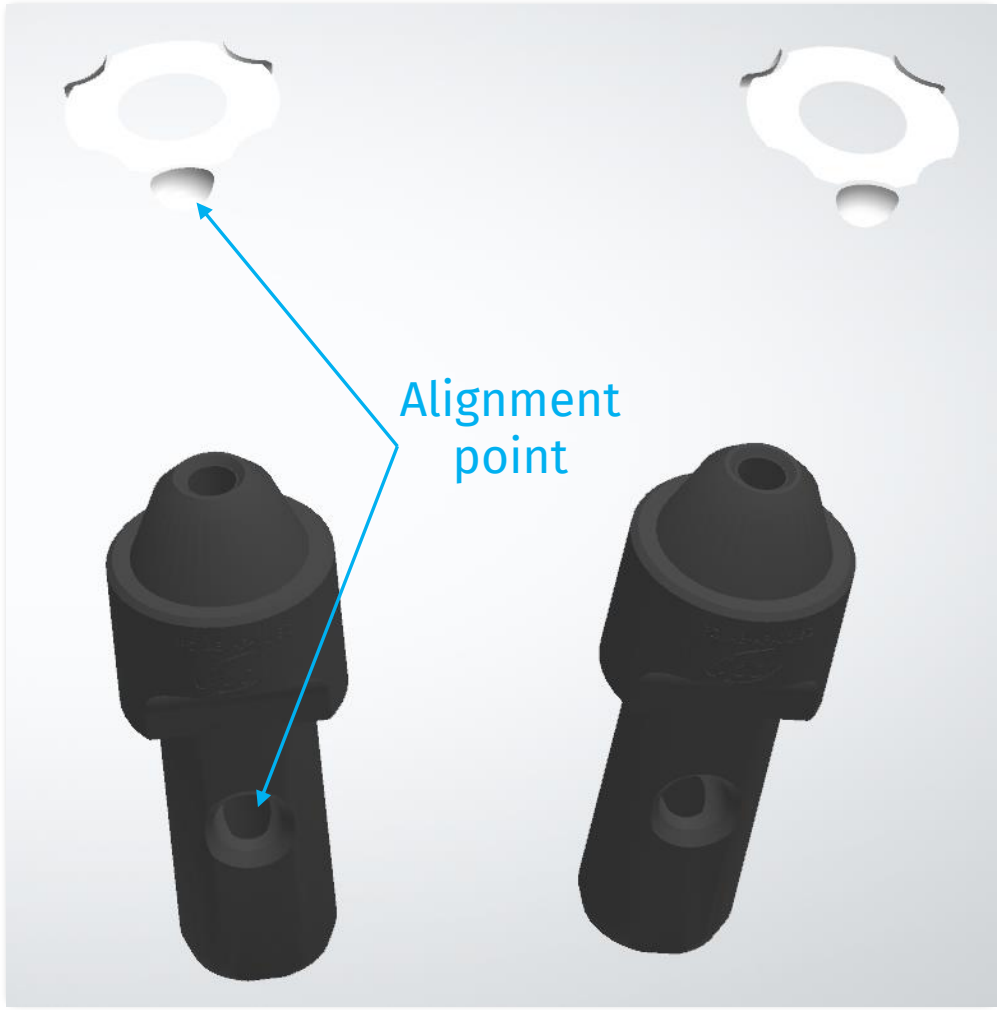


Scan Transfer

Library alignment

On the Scan Transfer library, guidance of the side screw channel facing matches with the alignment point.

* Important advice:
Please notice that this position cannot be changed in case.
We do strongly advice to ensure always placing the front middle asymmetrical cut-out of Scan Transfer head at the vestibular side.

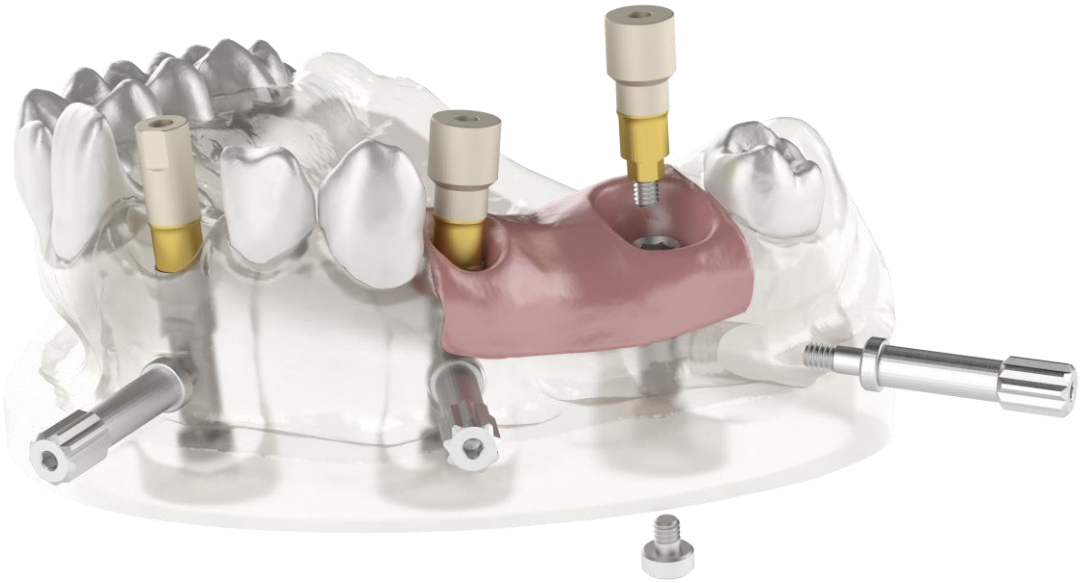


Scan Transfer

3D Analog

- **Side screw channel design**

  The software does not automatically generate the side screw channel, but there is a way to generate it by adding an attachment during the model design in Model Builder. Click the image below for the video tutorial:



ipd
Dental Group