



Dental Group

3Shape FDA Library

USER GUIDE



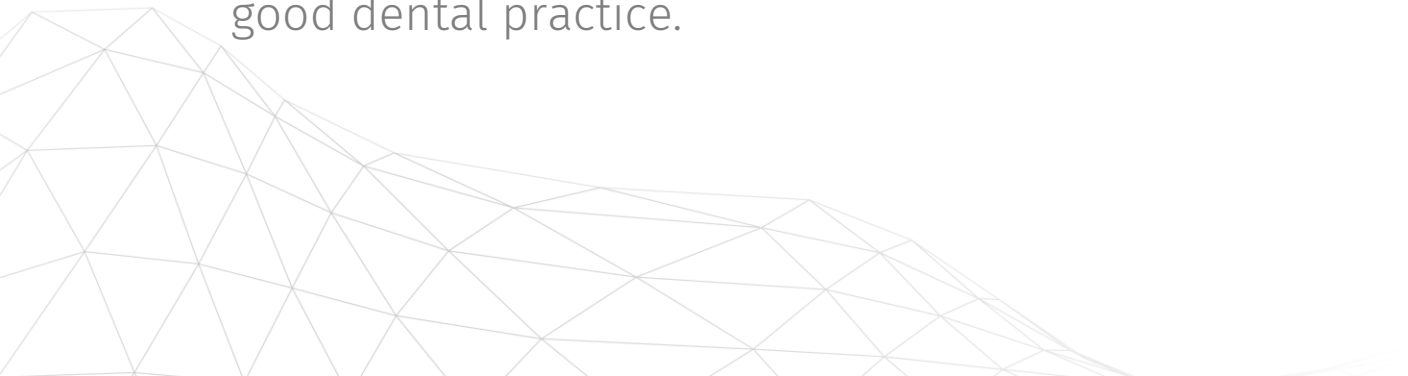


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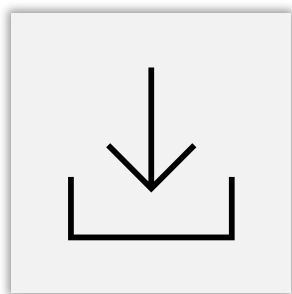
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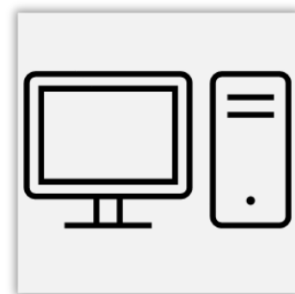


Dental Group

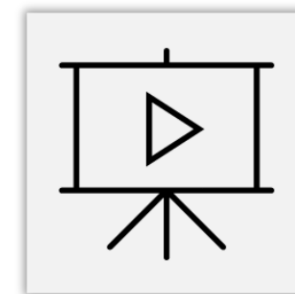
Interactive
show



Install



Library types and use



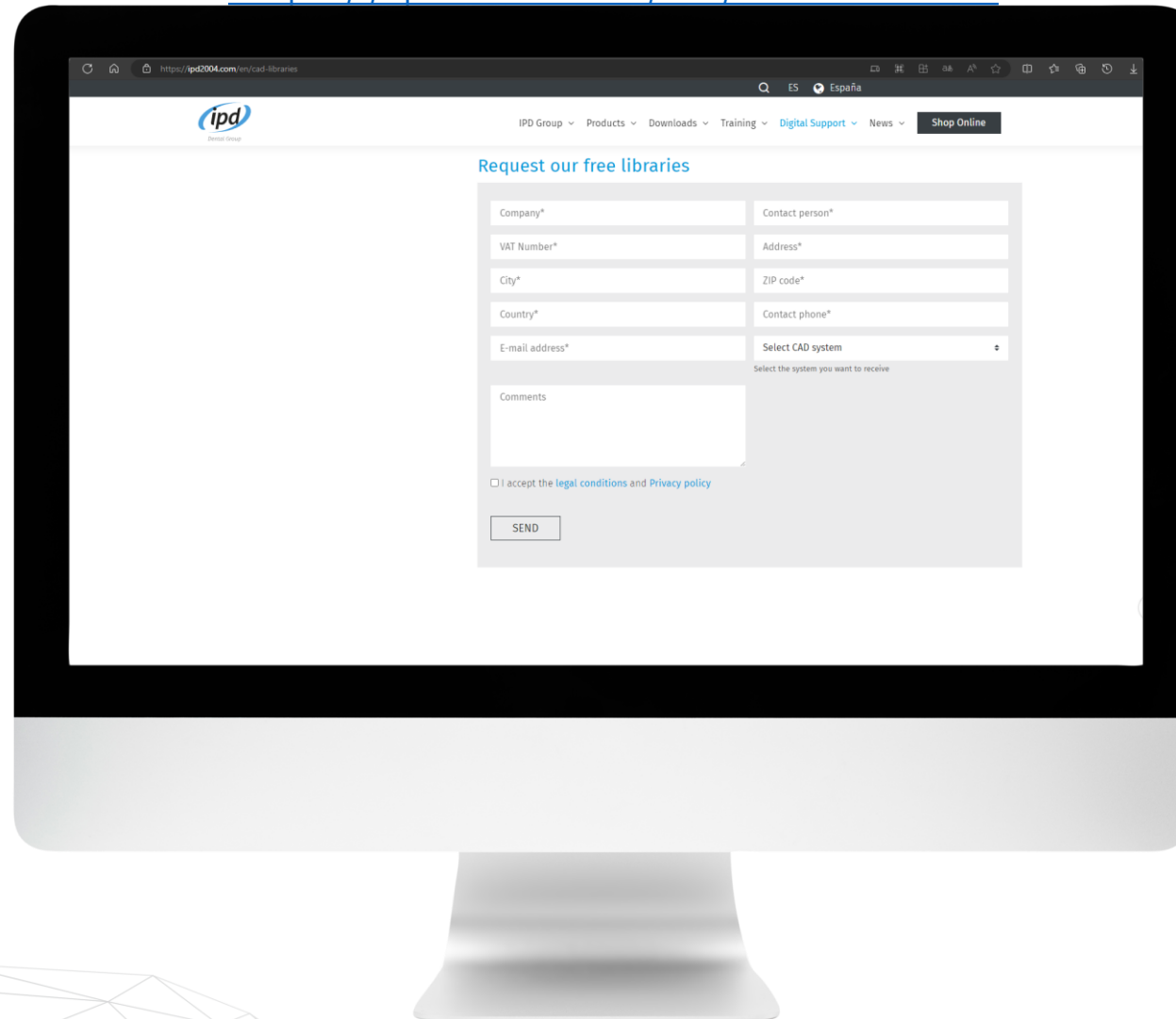
3D Analog side screw





Request libraries from the website

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





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



Home Page

System Settings

- System Settings
- Design options
- Services
- Auto workflow

DentalManager

- General
- Manufacturing Inbox
- ERP and processing time
- Order import
- Working days
- 3rd party applications
- Milling machines

Site Settings

- This site
- Dentists
- Labs
- Manufacturers
- Operators
- Countries
- Manufacturing processes

Tools

- Subscription Management (Dongle)
- Import/Export
- Download center
- Training Center
- 3Shape Communicate

Basic elements

- Materials
- Colors
- Margin line
- Attachments
- 2D Design overlays
- CAD blocks
- Press Multi sprues

Anatomy elements

- ScanIt library
- Anatomy and Pontic libraries
- Smile libraries
- Artificial teeth
- Crowns
- Crown Pontics
- Inlays
- Onlays/Veneers
- Temporary Crowns
- Temporary Pontics
- Temporaries on prepared model
- Tabletops

Frame elements

- Copings
- Frame Pontics
- Waxups
- Primary telescopes

Abutments

- Top cap libraries
- Implant systems

Post and Core

- Post and Core systems
- Post and Cores

Bridge elements

- Bars
- Connectors

Full dentures

- Design settings
- Gingivae
- Smile Libraries Chart

Removables

- Frames
- Connectors and Rests
- Wax profile strips
- Retentions
- Stippled waxes

Digital model

- Digital model design
- Articulator interfaces

Appliances

- Orthodontics Control Panel
- Positioning Guide

Select "Import/Export"



Tools ▶ Import/Export

Tasks

- Export materials
- Import materials

Import materials

To import new materials, click on "Import materials" and browse the desired file (extension ".dme"). Then select the materials from the list that appeared on a screen and click "Import". Typically it is recommended to select all. You can also download the materials directly from FTP - go to Site Settings -> Sites page and click "Download Materials".

Import materials

History Of Import Materials

Export materials

Clone system

Select "Import materials"



Import the relevant DME file previously downloaded and unzipped

Import materials

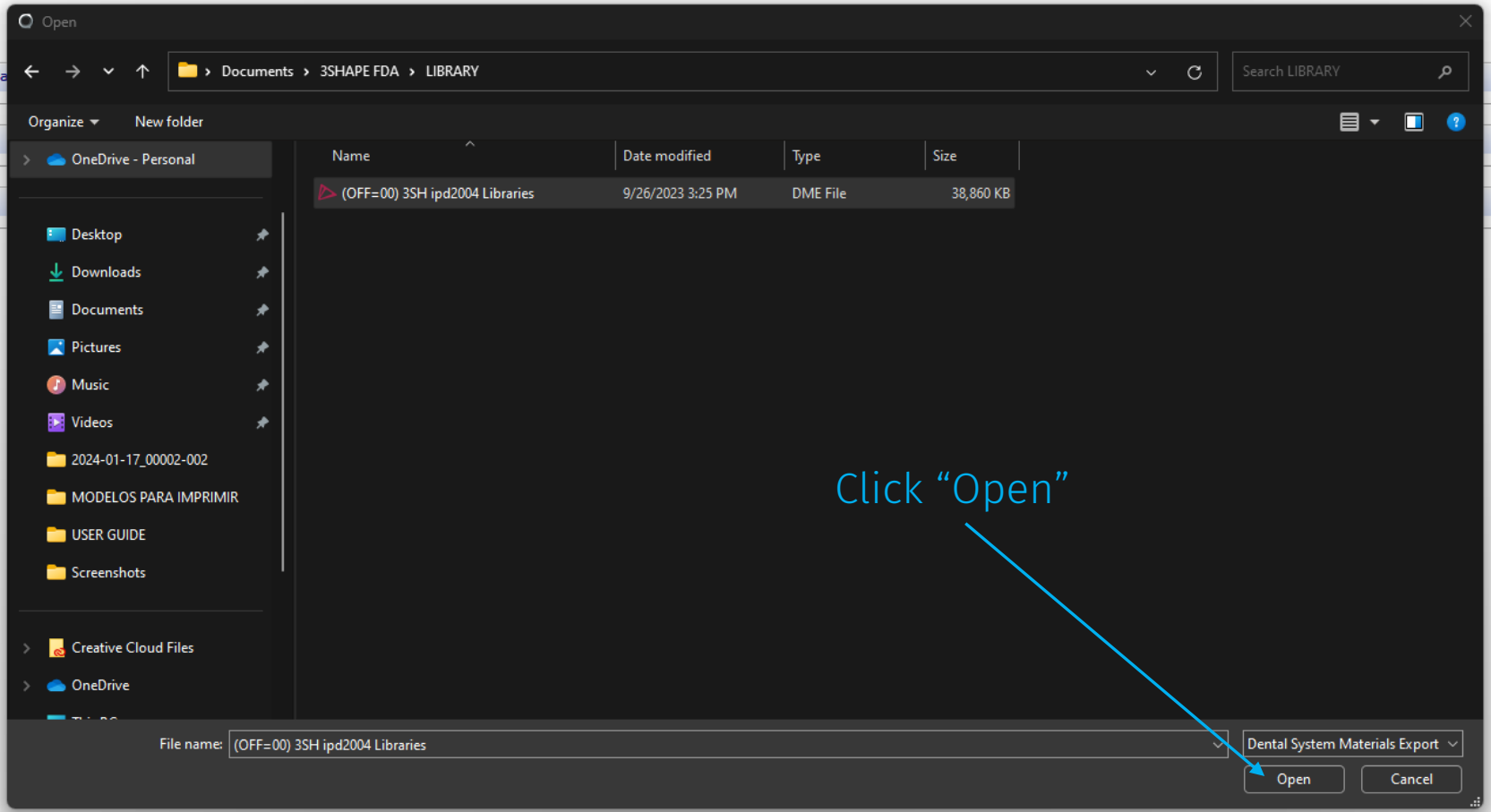
To import new materials, click on "Import materials" and browse the desired file (extension ".dme"). Then select the materials from the list that appeared on a screen and click "Import". Typically it is recommended to select all. You can also download the materials directly from FTP - go to Site Settings -> Sites page and click "Download Materials".

[Import materials](#)

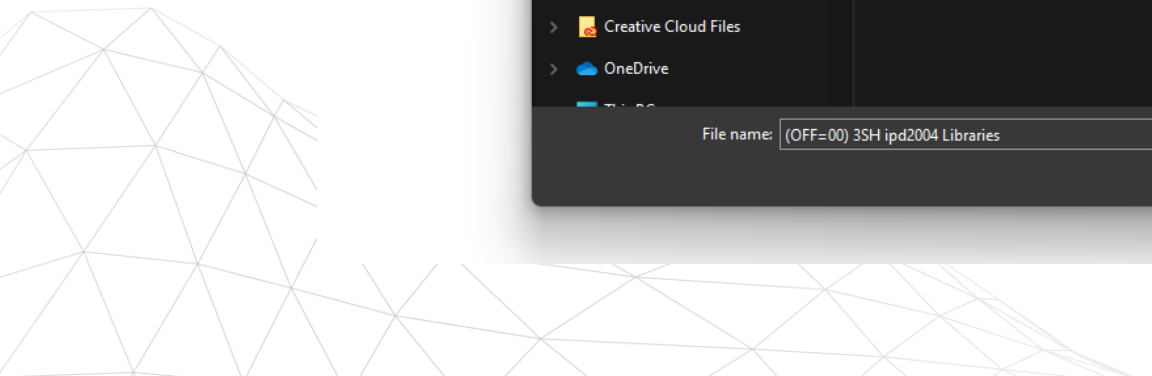
[History Of Import Materials](#)

[Export materials](#)

[Clone system](#)



Click "Open"





go to Site Settings -> Sites page and click "Download Materials".

Import and update materials

Please select materials to import

Available materials

- Implant systems
 - (FDA/IPD-C.Interface) Multi-unit Ø4.8 To
 - (FDA/IPD-C.Interface) Multi-unit Ø4.8 To
 - (FDA/IPD-C.Interface) NB Branemark Ø3.
 - (FDA/IPD-C.Interface) NB Branemark Ø3.
 - (FDA/IPD-C.Interface) NB Branemark Ø4.
 - (FDA/IPD-C.Interface) NB Branemark Ø4.
 - (FDA/IPD-C.Interface) NB Branemark Ø5.
 - (FDA/IPD-C.Interface) NB Branemark Ø5.
 - (FDA/IPD-C.Interface) STR Tissue LVL RN
 - (FDA/IPD-C.Interface) STR Tissue LVL RN
 - (FDA/IPD-C.Interface) STR Tissue LVL WI
 - (FDA/IPD-C.Interface) STR Tissue LVL WI
 - (FDA/IPD-C.Interface) ZIM TSV Ø3.5 Tol:
 - (FDA/IPD-C.Interface) ZIM TSV Ø3.5 Tol:
 - (FDA/IPD-C.Interface) ZIM TSV Ø4.5 Tol:
 - (FDA/IPD-C.Interface) ZIM TSV Ø4.5 Tol:

Library name
(OFF=00) 3SH ipd2004 Libraries

Provider
IPD2004

Library type
General library

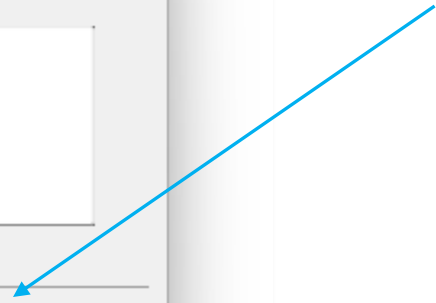
Version

Library creation date
09/08/2023

Description

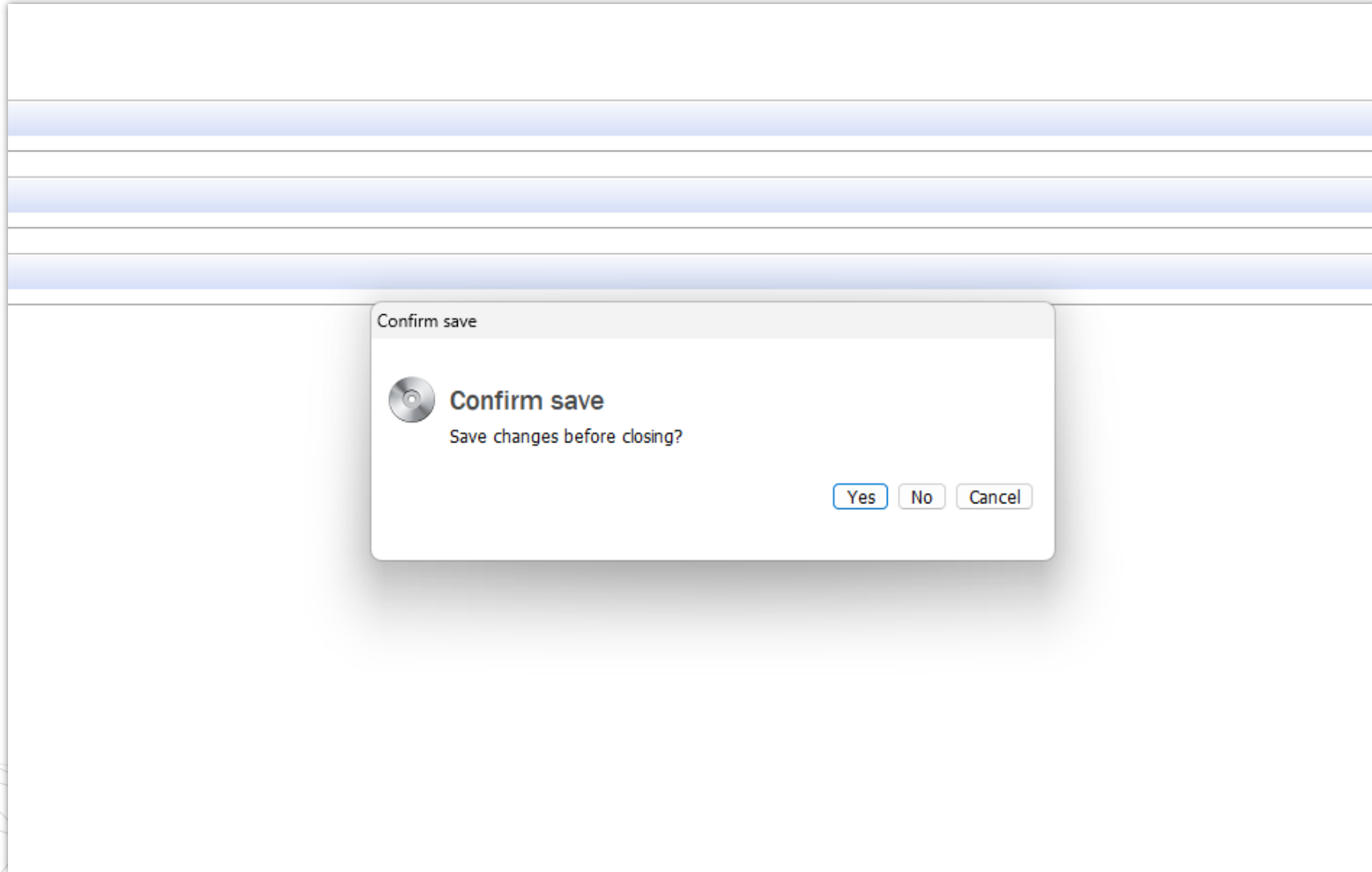
Import Cancel

Click "Import"





Save changes before close 3Shape Dental System Control Panel





Library types

Scan Abutment



Scan Transfer





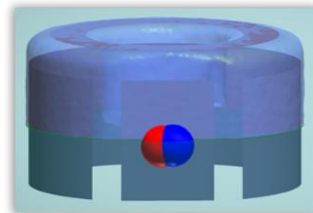
Back to Library types

Scan Abutment Libraries

Ti-Base level



Implant Level



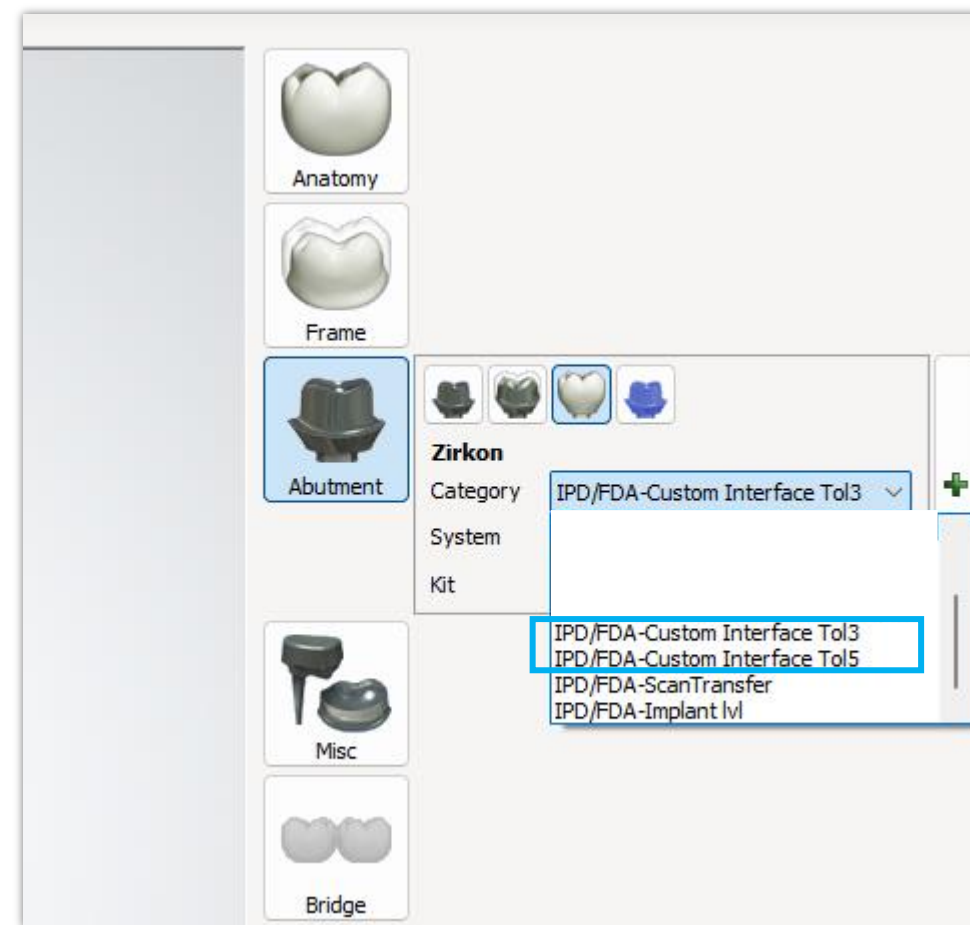
CAD alignment, ASC & design





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

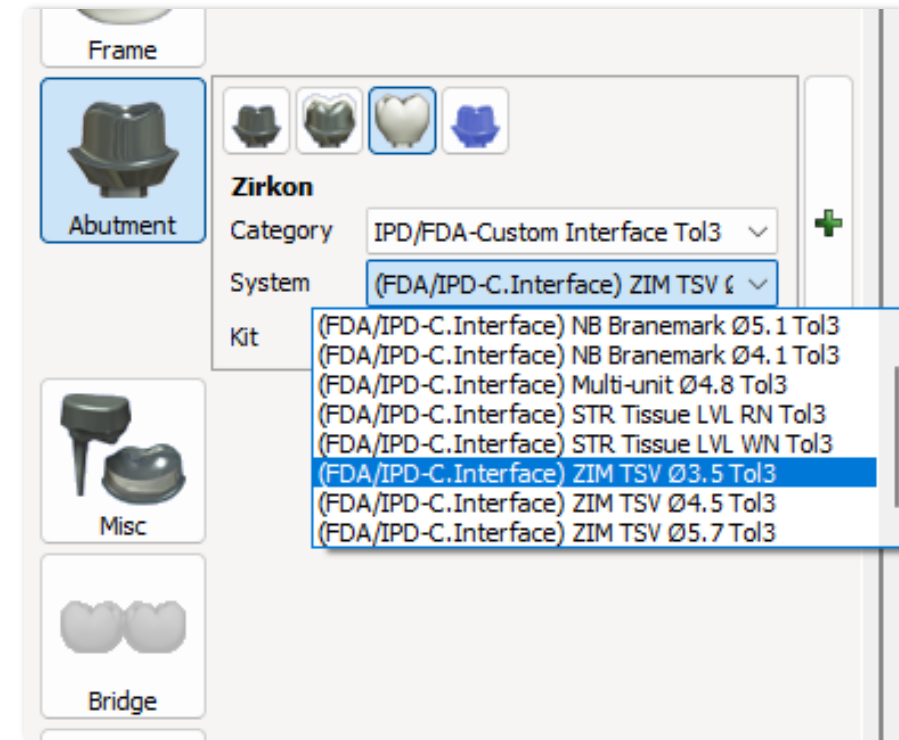


System

- **Ti-Base Level**

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

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



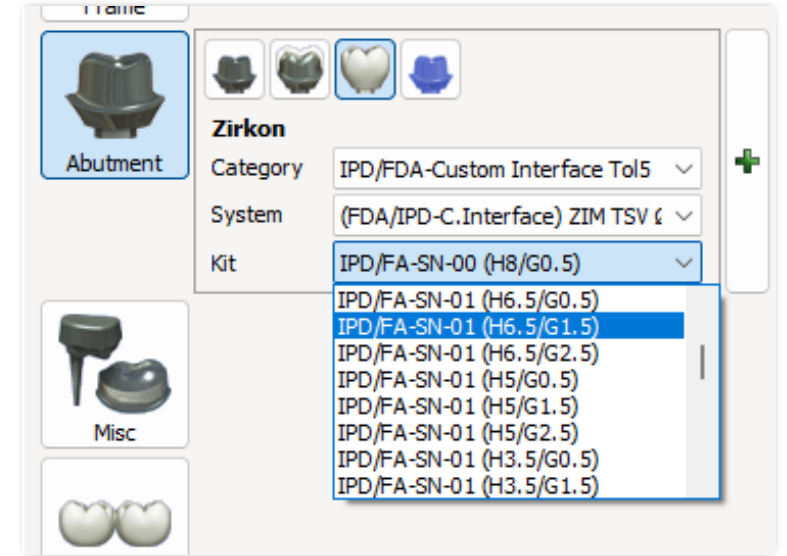
Custom
Ti-Base



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 (Ti-Base wall Height) (Gingival height*)

- 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
*Avaliability to be confirmed

Gingival height*

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





Kit

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

IPD/FA – SN – 0* (ANG/H6.5/G1.5)

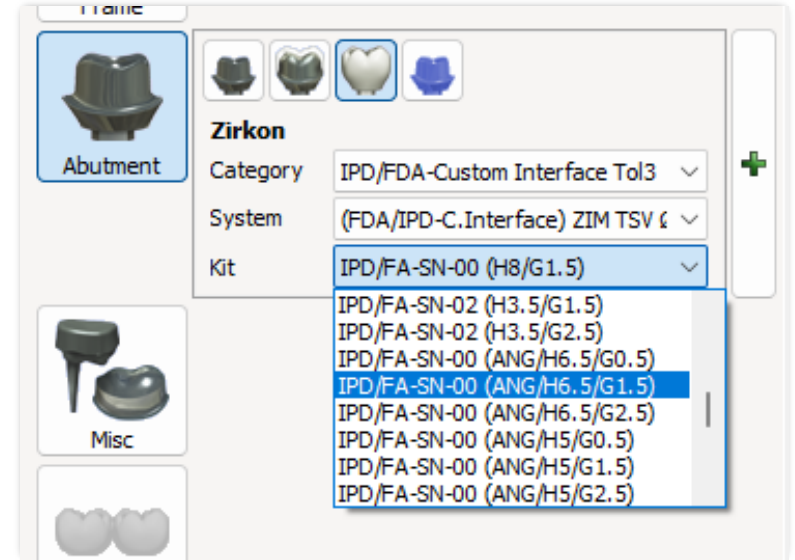
Brand Platform

ASC design

Eng/Non Eng

Ti-Base wall Height

Gingival height*



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

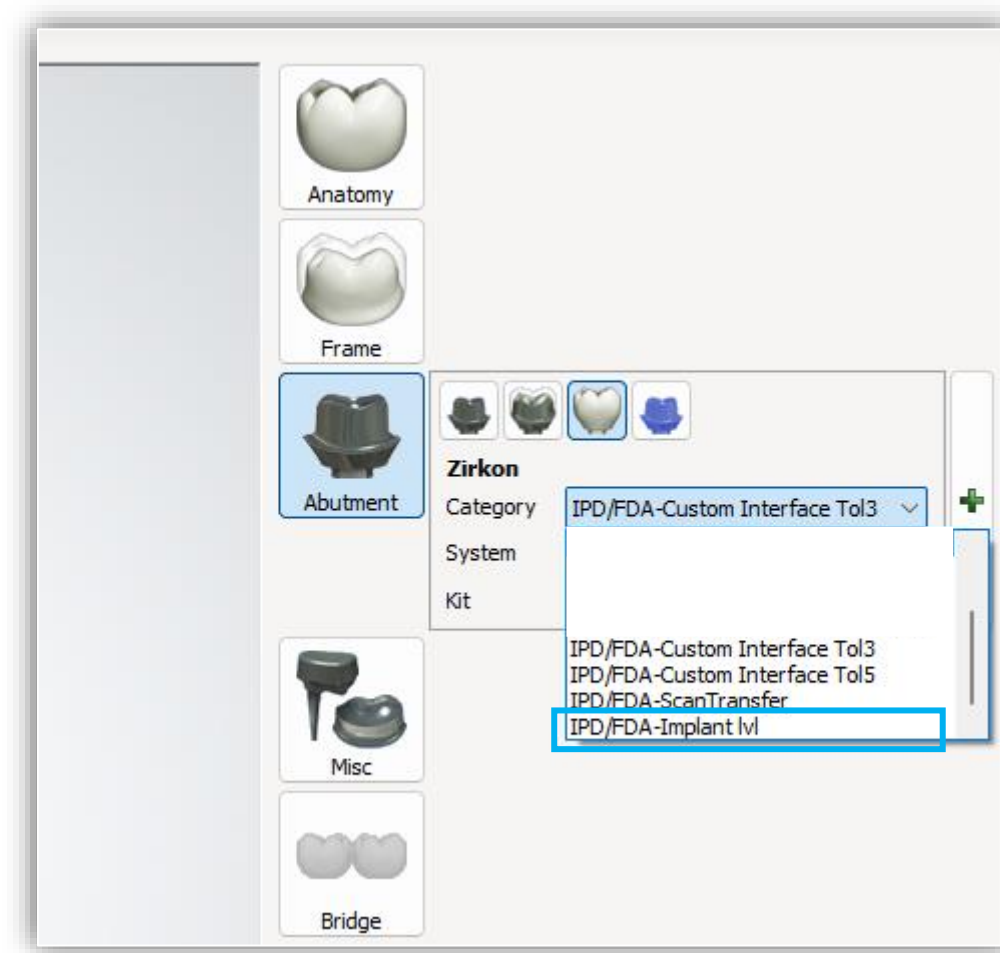
ENG: 8 – 6,5 – 5 – 3,5
NON-ENG: 6,5* – 5* – 3,5
*Avialibility to be confirmed

* Available highs may differ depending on implant system



Category

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



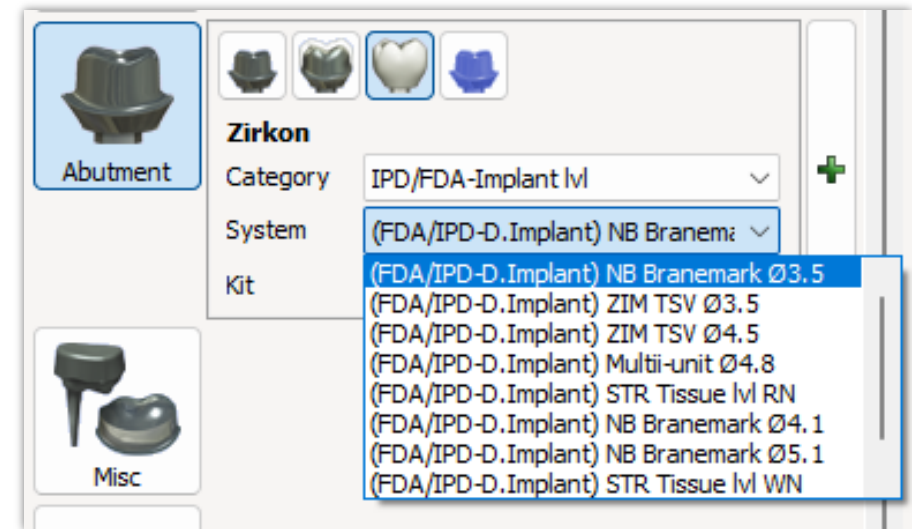
Implant
Level



System

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

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



Implant
Level



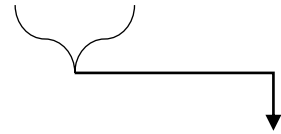
Kit

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*

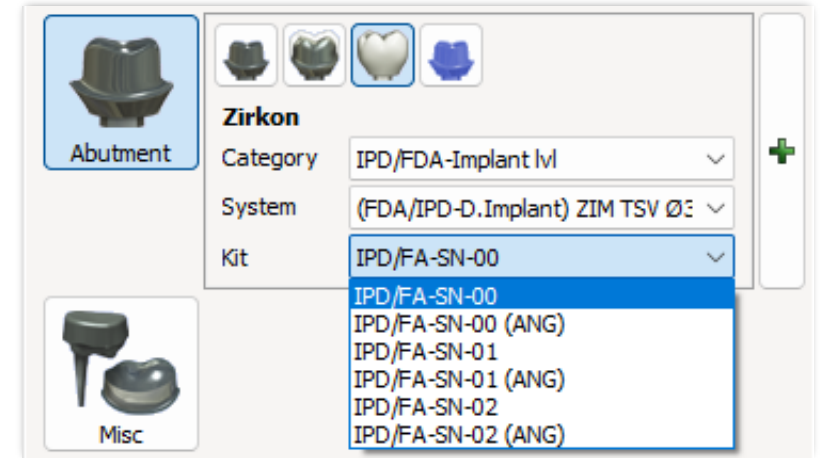
Brand Platform



Eng/Non Eng

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

Implant Level

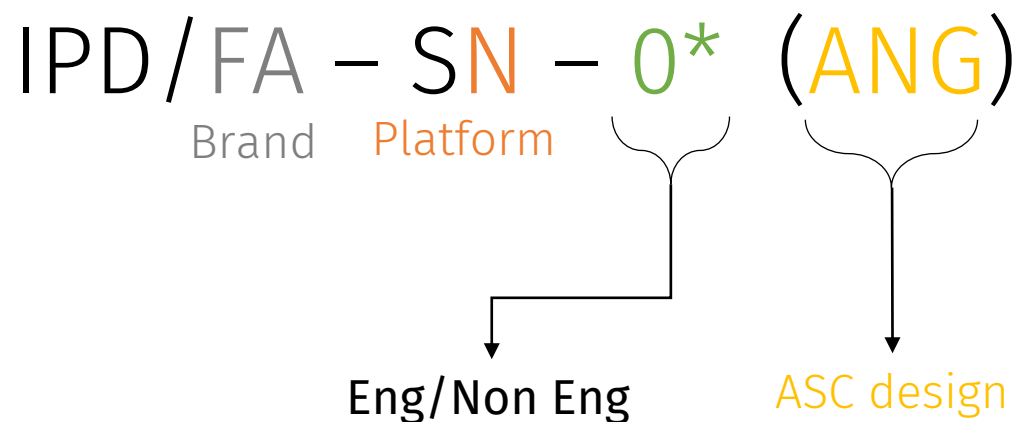




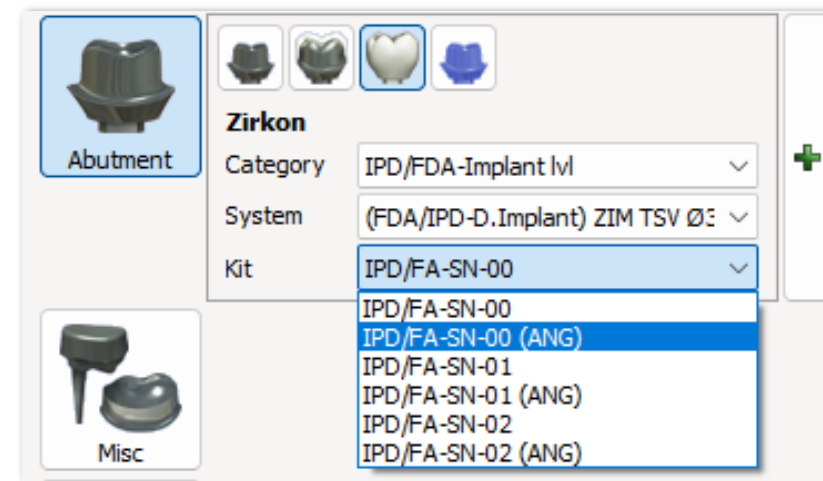
Kit

For those cases needing from ASC design, select the relevant "ANG Library".

These can be find when scrolling down onto the wizard



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



Implant Level



Library alignment

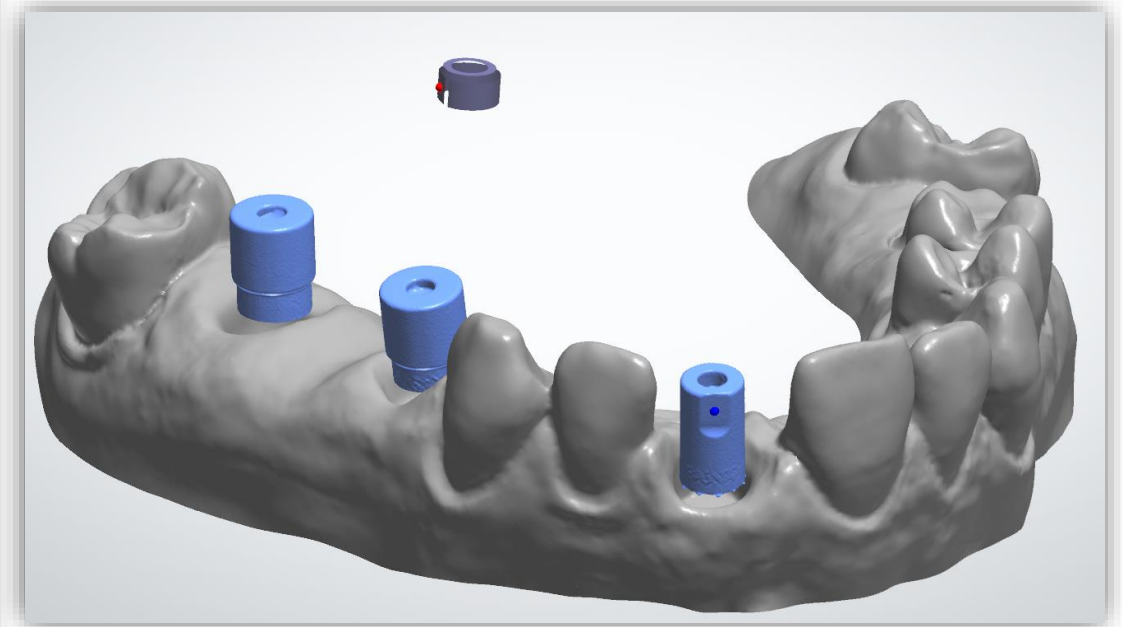
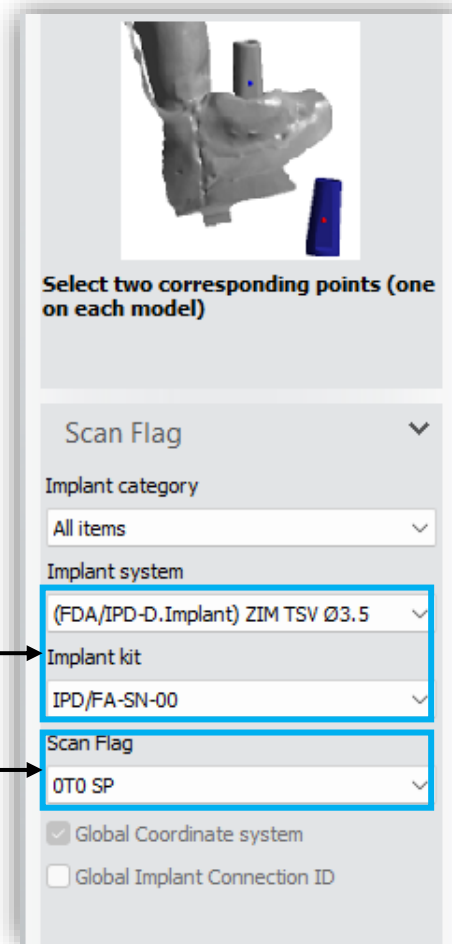
Make sure Implant System and kit are matching with the Order Form selection.

*** 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

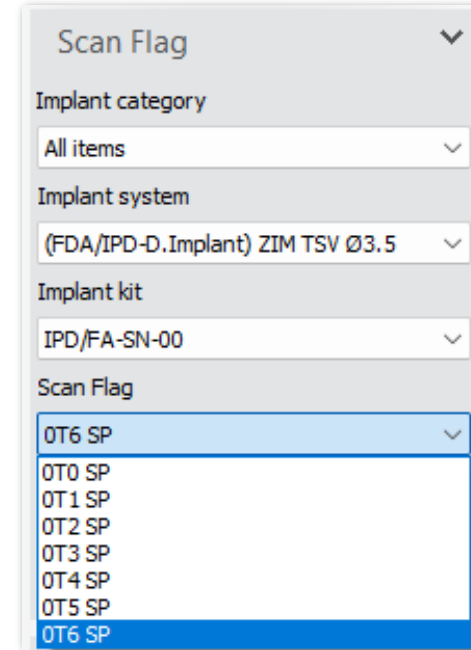
- **Scan Abutment Tolerance tool**

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.



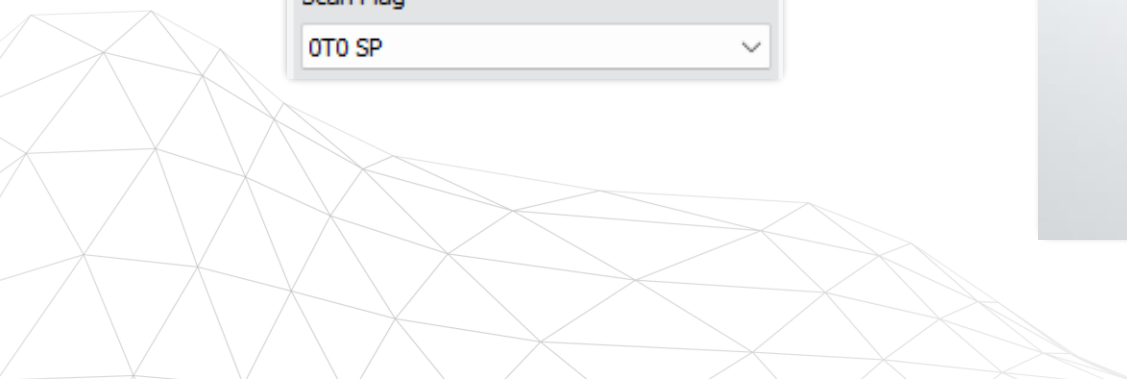
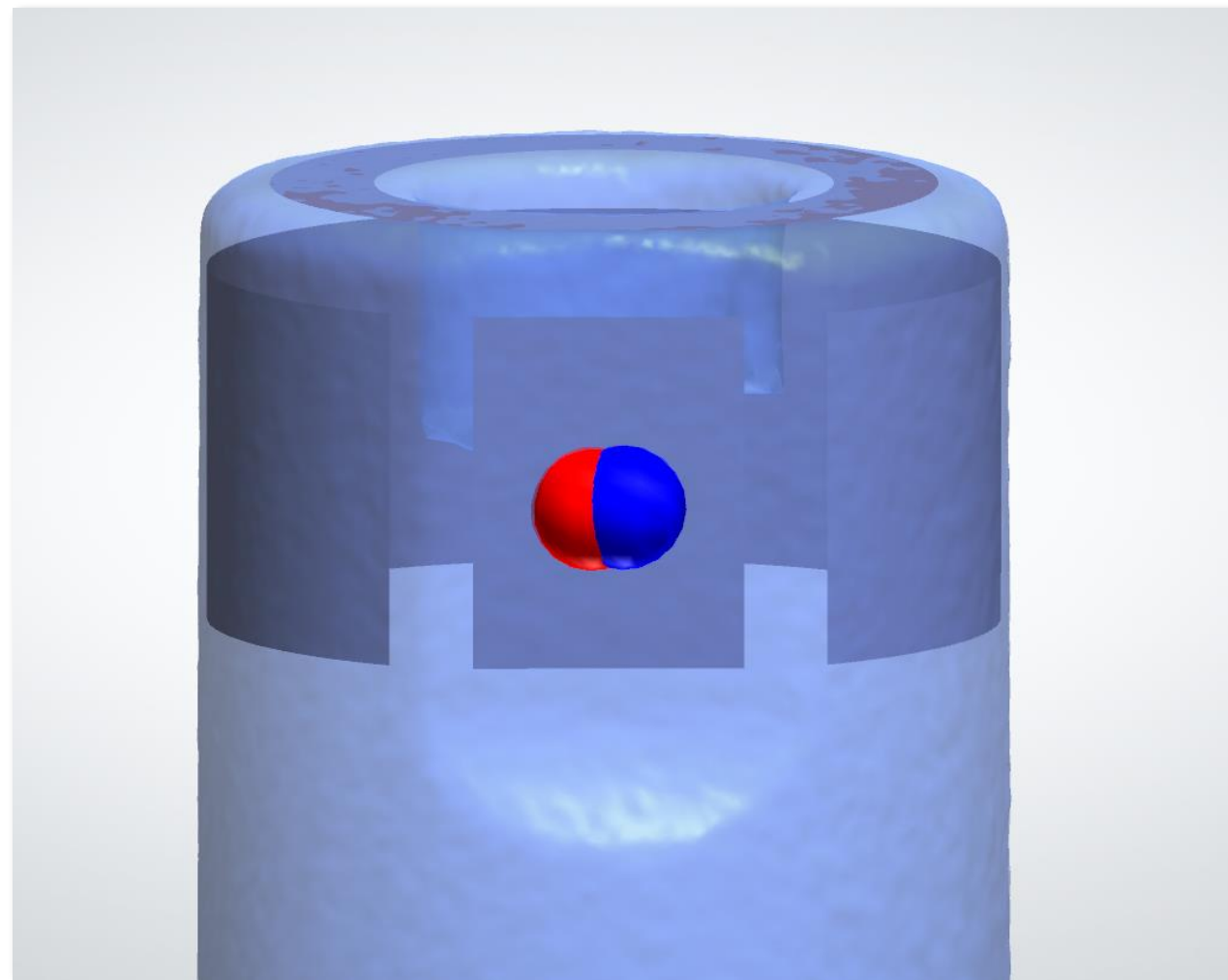
- T0 - Std STL (= physical dimension)
- T1 - Std STL + 10 microns
- T2 - Std STL + 20 microns
- T3 - Std STL + 30 microns
- T4 - Std STL + 40 microns
- T5 - Std STL + 50 microns
- T6 - Std STL + 60 microns



Library alignment

Alignment using "T0" Tolerance

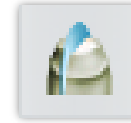
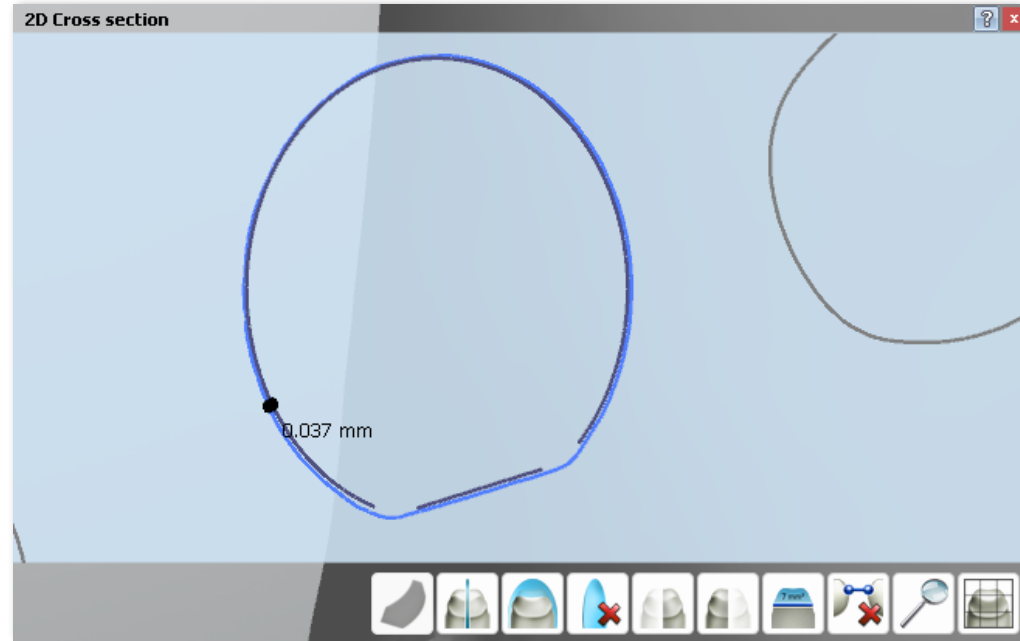
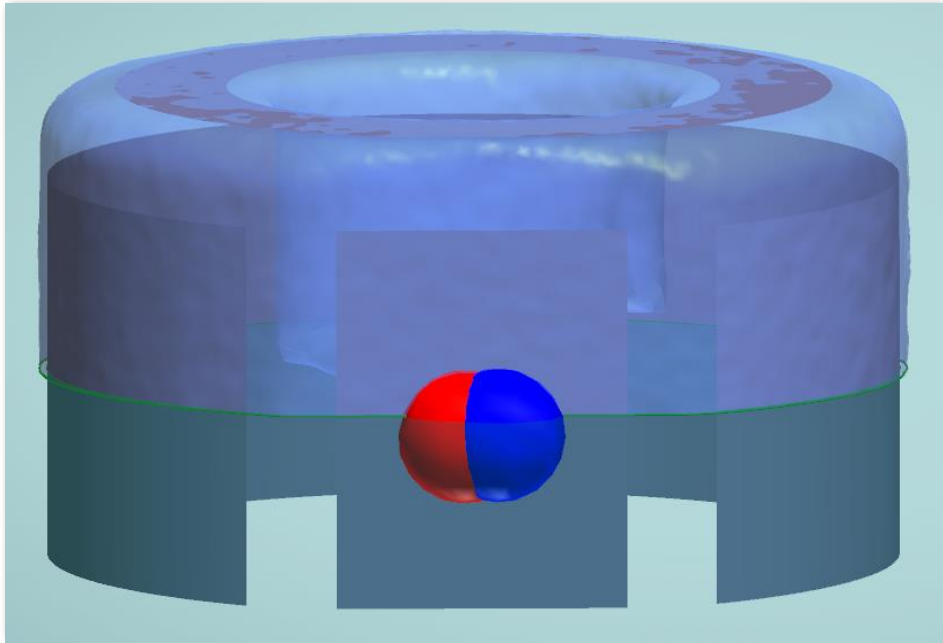
Scan Flag	▼
Implant category	
All items	▼
Implant system	
(FDA/IPD-D.Implant) ZIM TSV Ø3.5	▼
Implant kit	
IPD/FA-SN-00	▼
Scan Flag	
0T0 SP	▼





Library alignment

Using the "2D Cut" to evaluate dimensional discrepancy

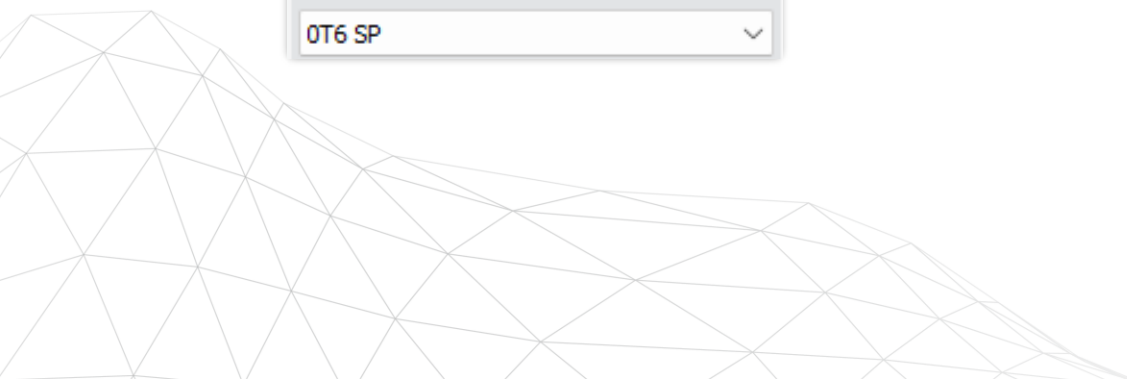
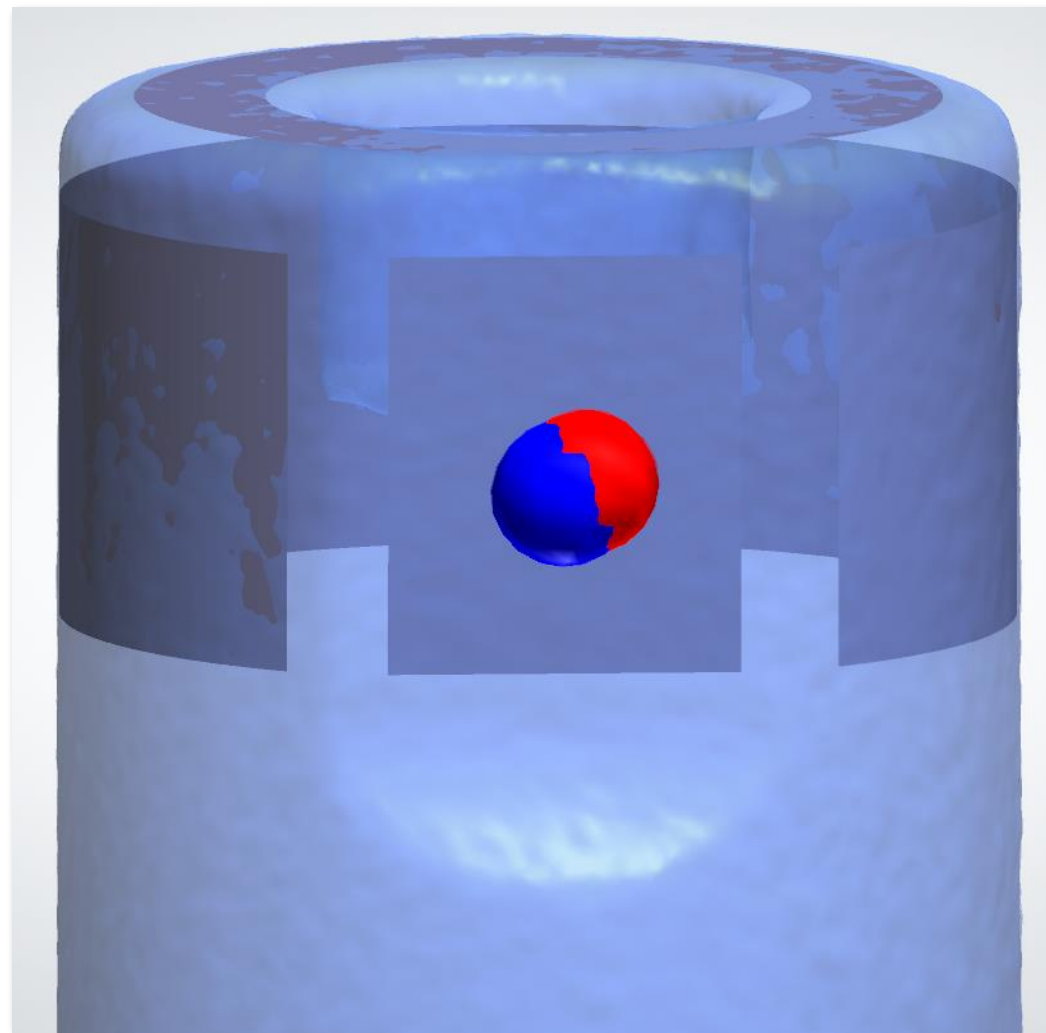




Library alignment

Alignment using "T6" Tolerance

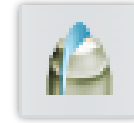
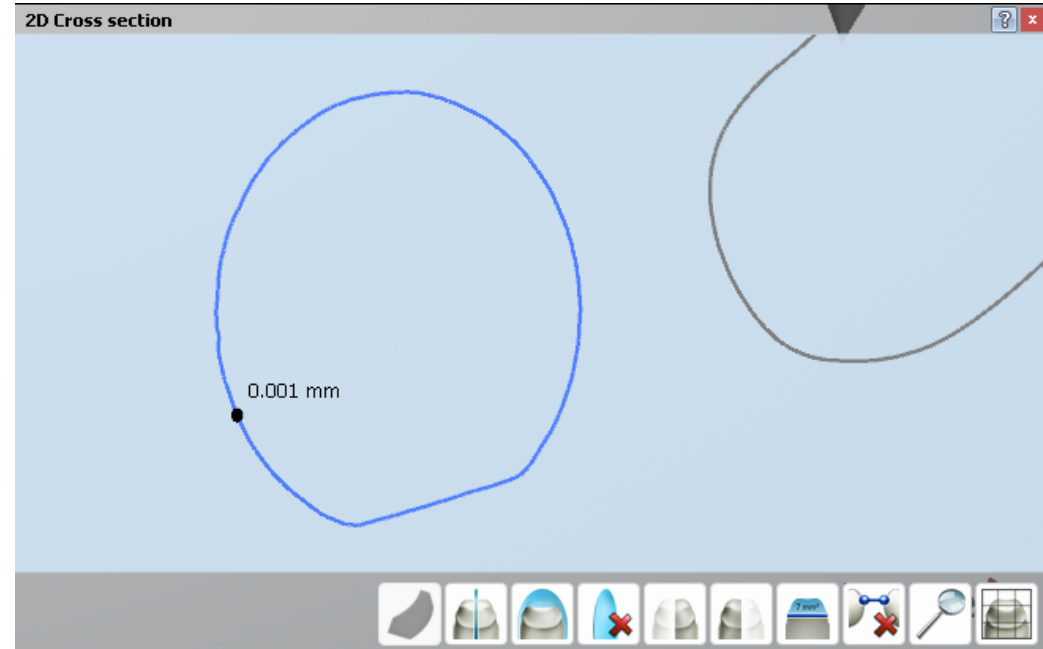
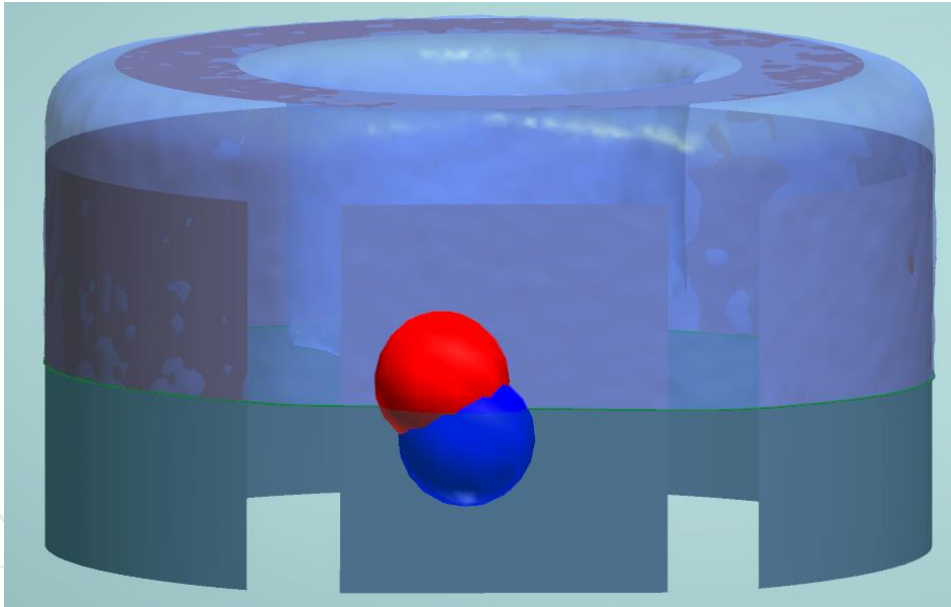
Scan Flag	▼
Implant category	All items ▼
Implant system	(FDA/IPD-D.Implant) ZIM TSV Ø3.5 ▼
Implant kit	IPD/FA-SN-00 ▼
Scan Flag	OT6 SP ▼





Library alignment

Using the "2D Cut" to evaluate dimensional discrepancy

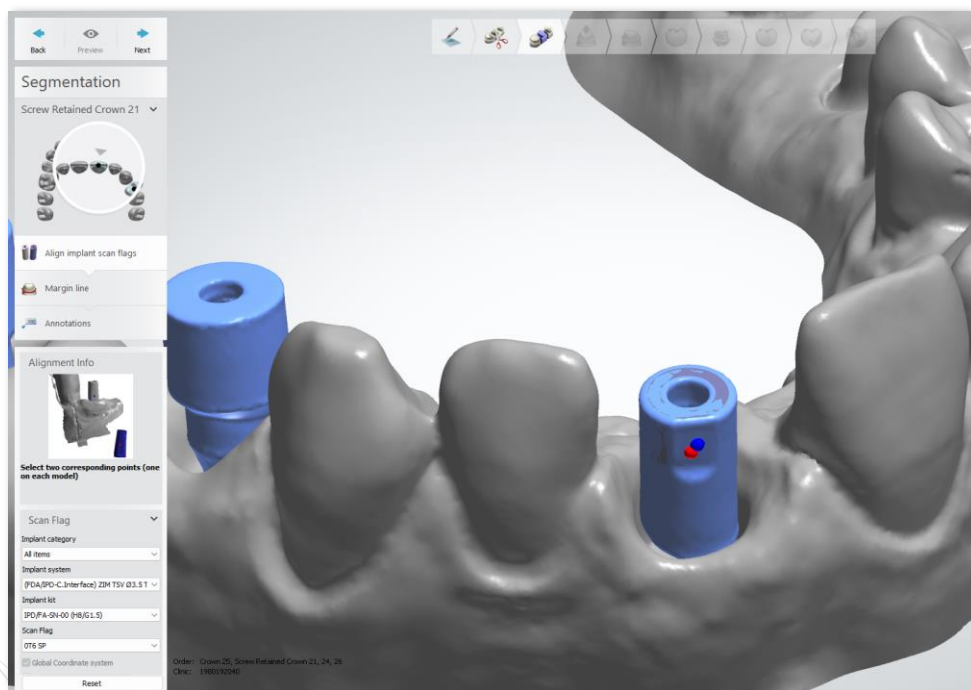




ASC Guidance

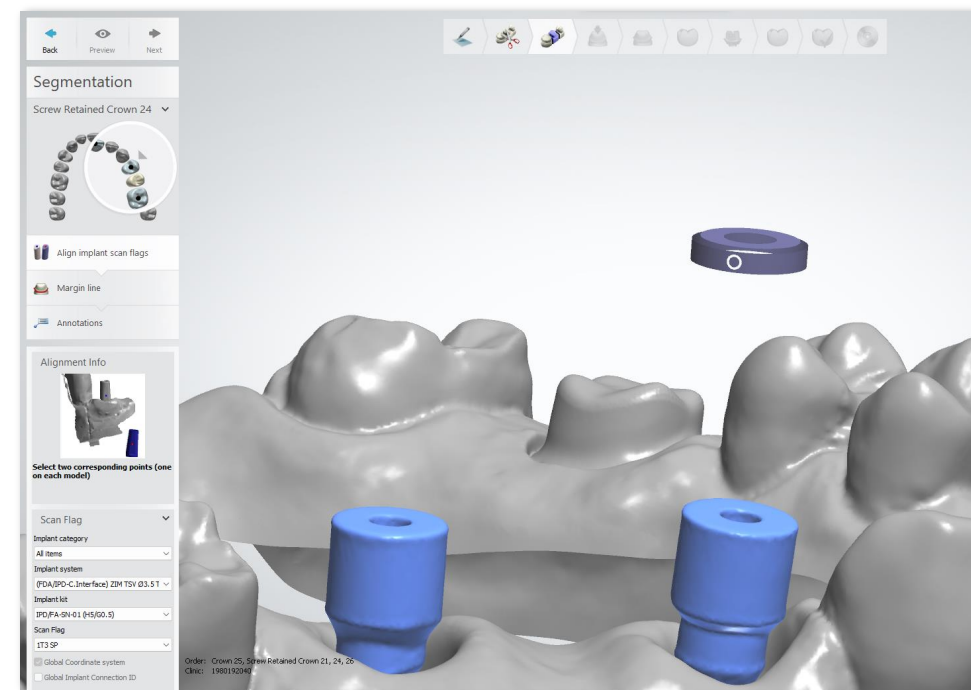
- ASC Design – Guiding the screw channel**

When using 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.



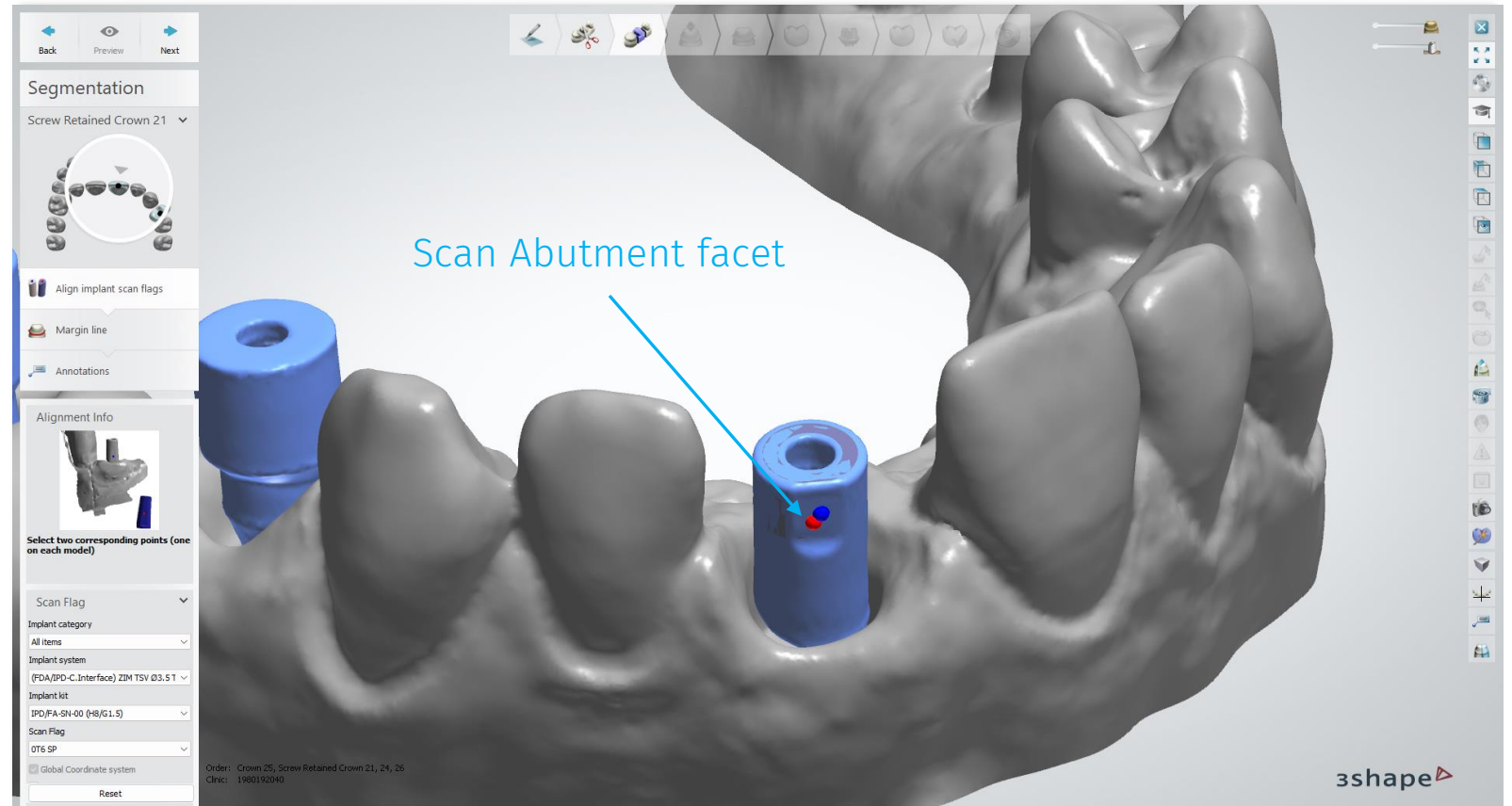
ASC Guidance

- **Engaging**

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

- *** Advice:**

Despite 3Shape enables to virtually 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.

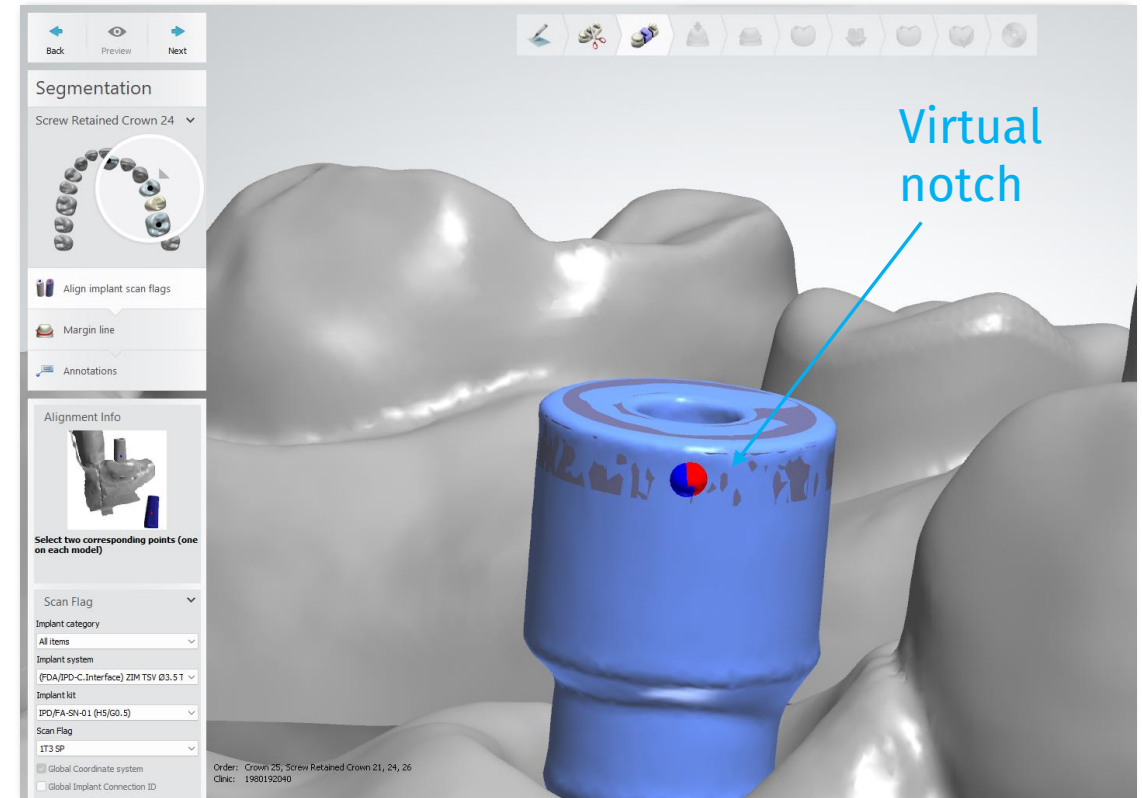
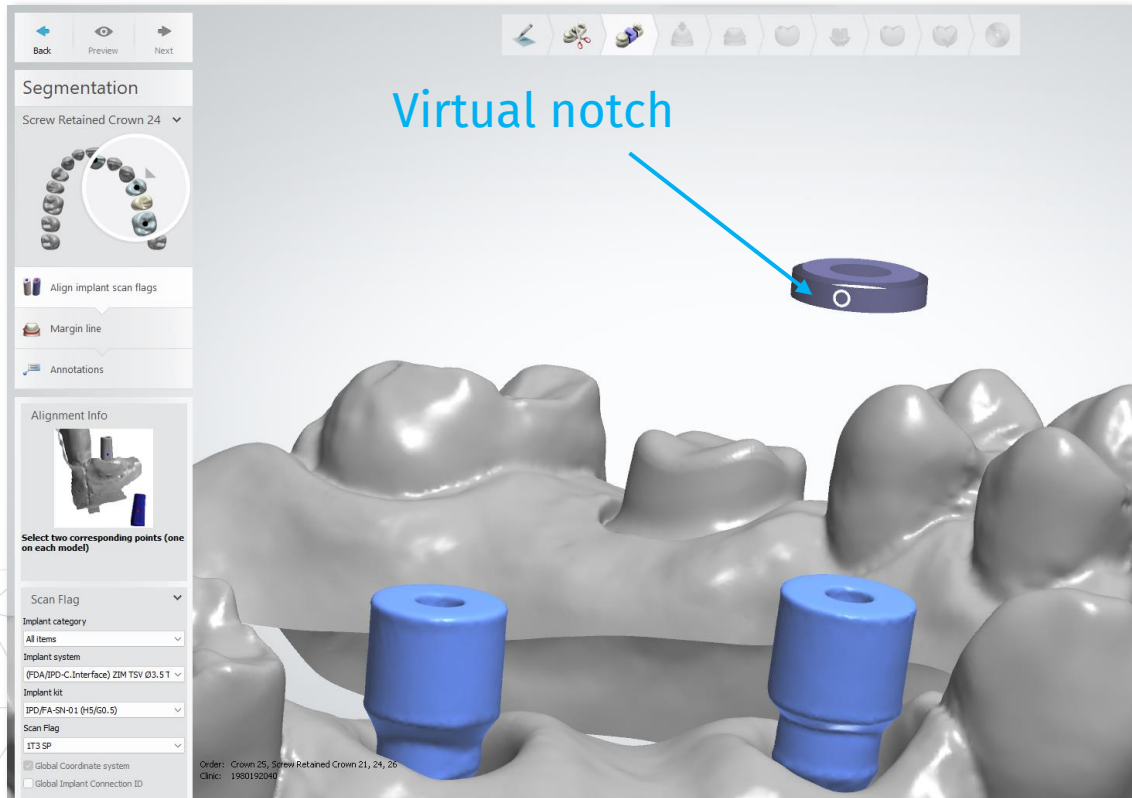




ASC Guidance

- Non-Engaging**

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

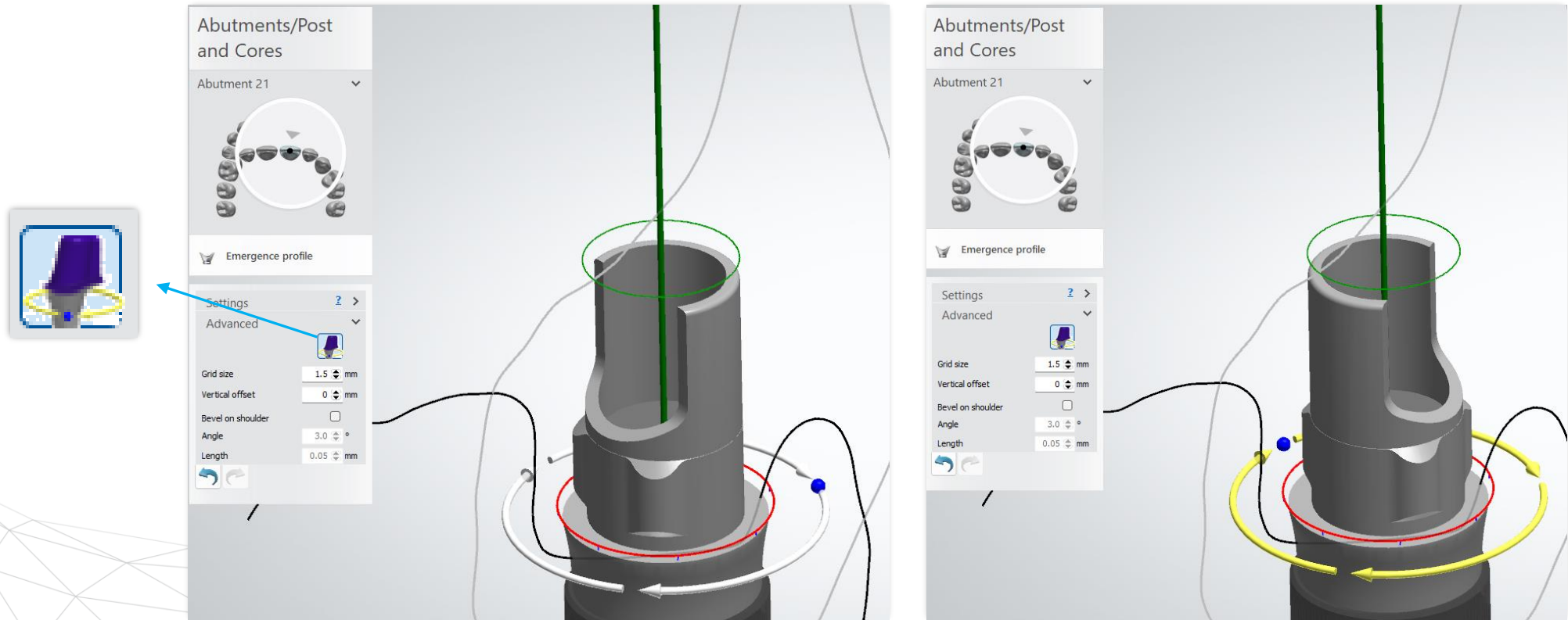




ASC Ti-base Guidance

- 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 desired position to ensure matching with a suitable ASC channel. The available positions will be related to the corresponding implant System geometry.



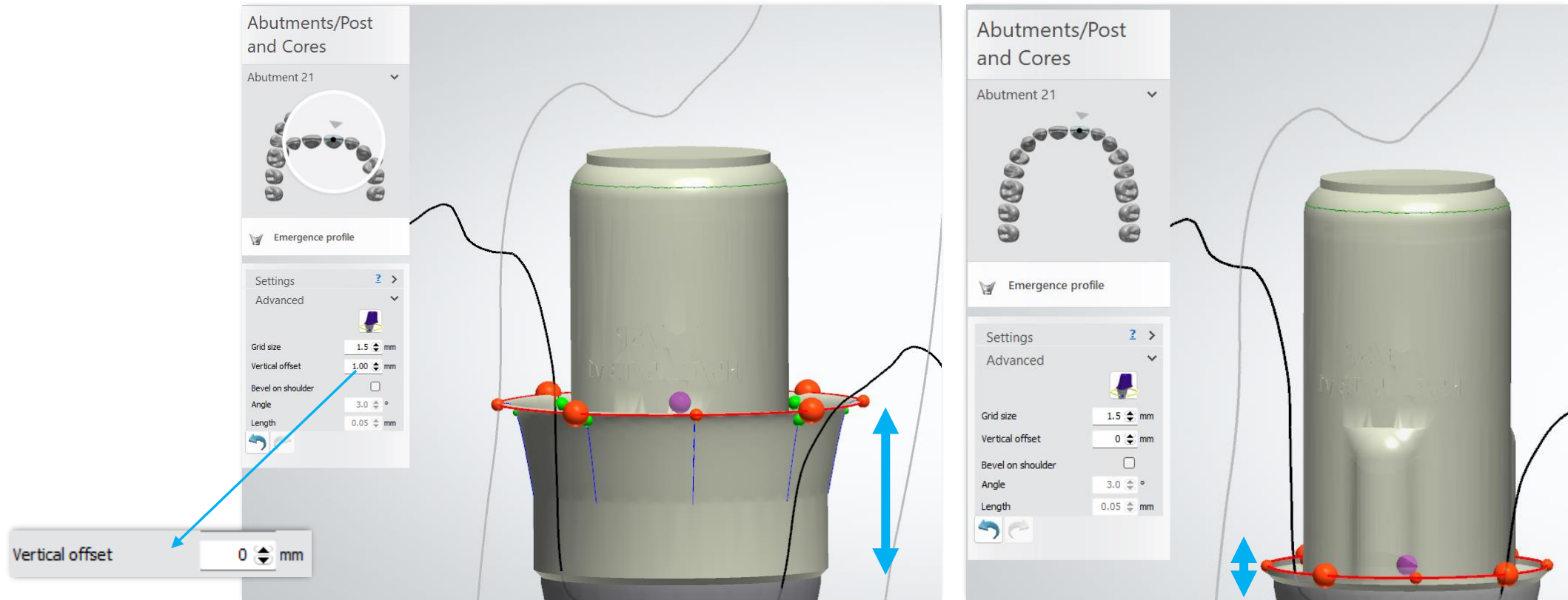


Emergence profile design

- **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.





Back to Library types

Scan Transfer

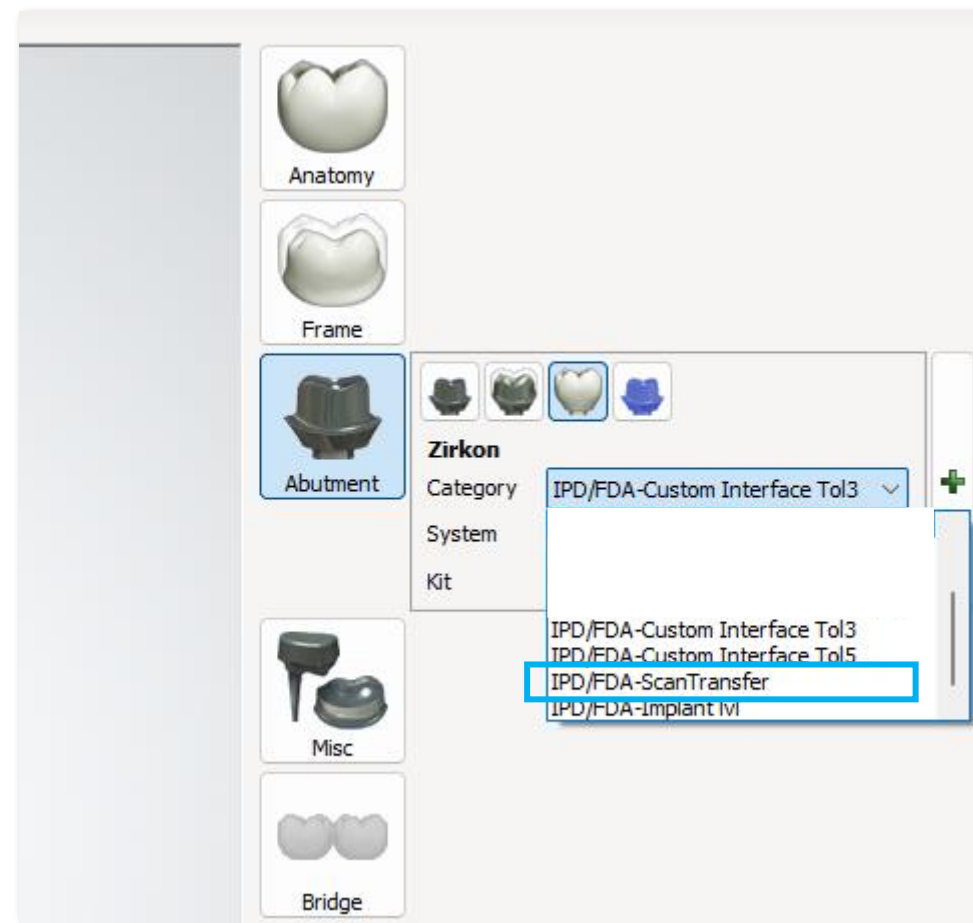




Back to Library types

Category

IPD/FDA – ScanTransfer:
Dedicated Scan Transfer Libraries



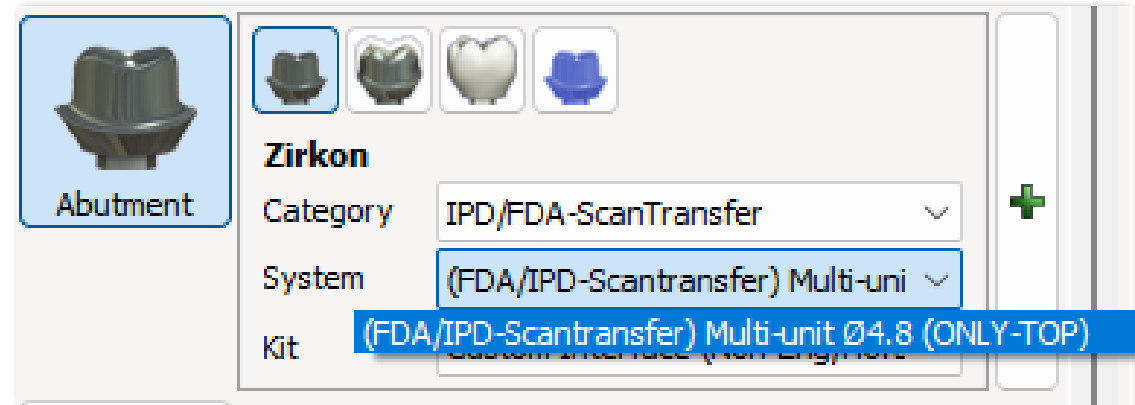
Scan
Transfer



Back to Library types

System

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



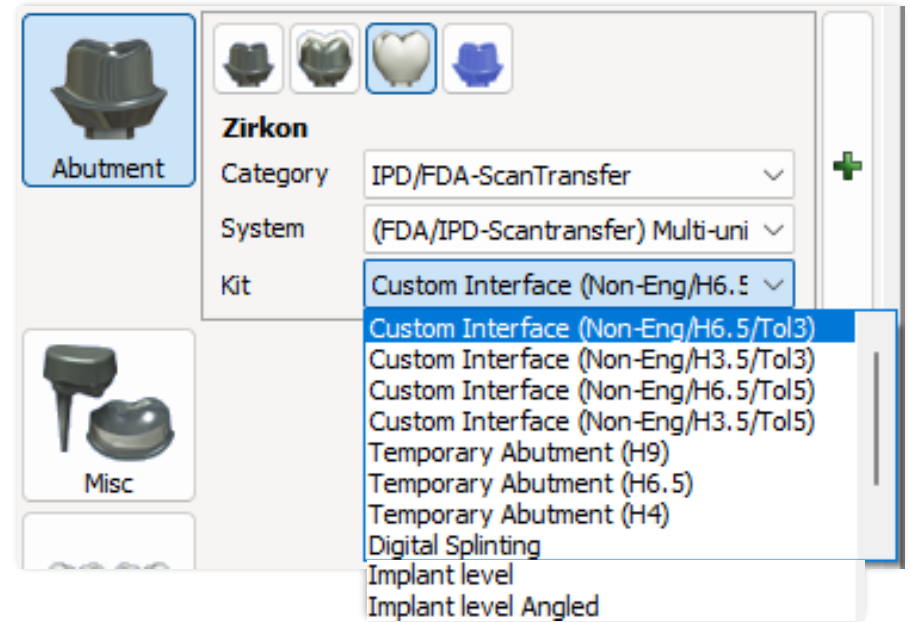
Scan Transfer



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)

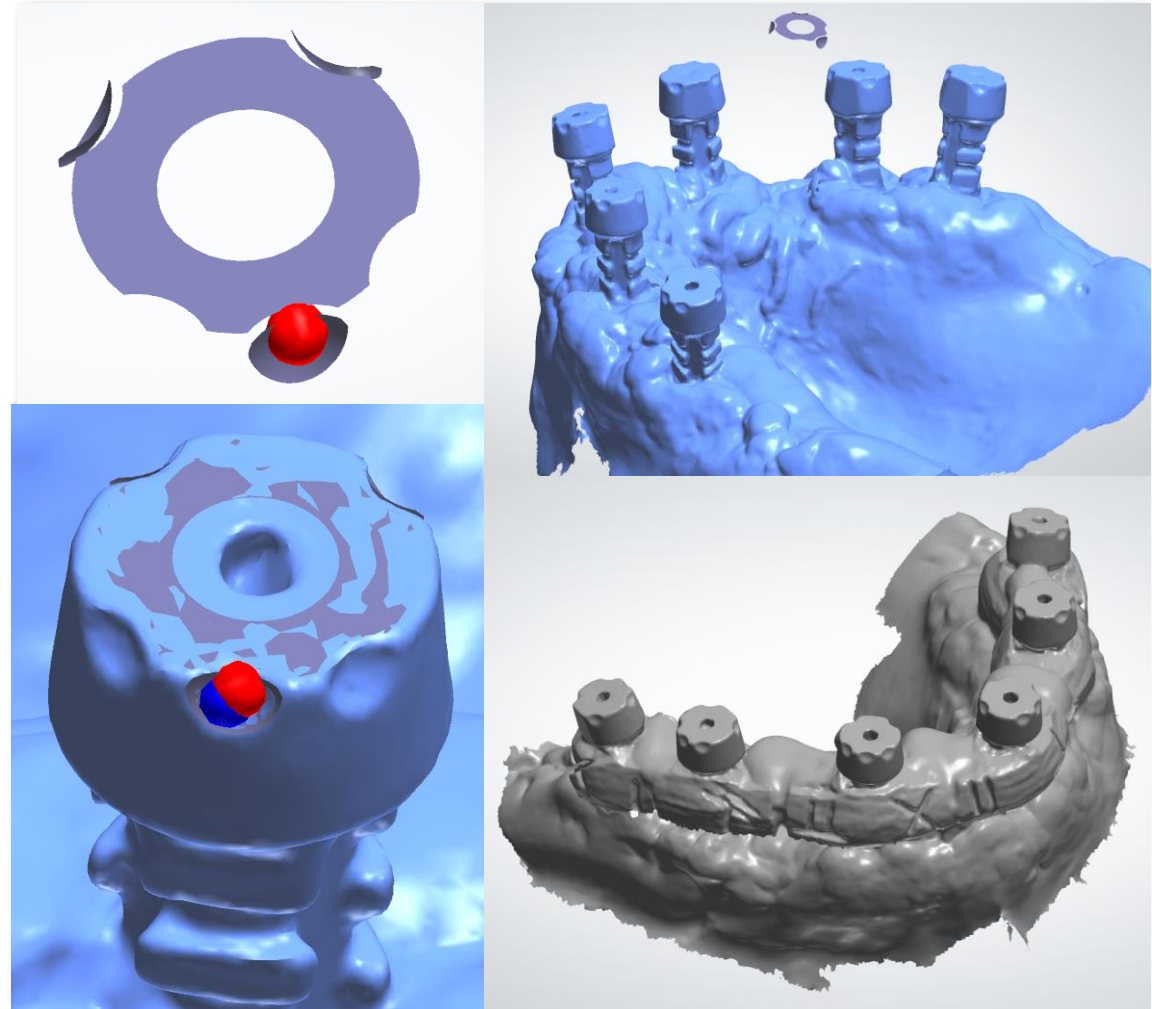




Library alignment

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

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





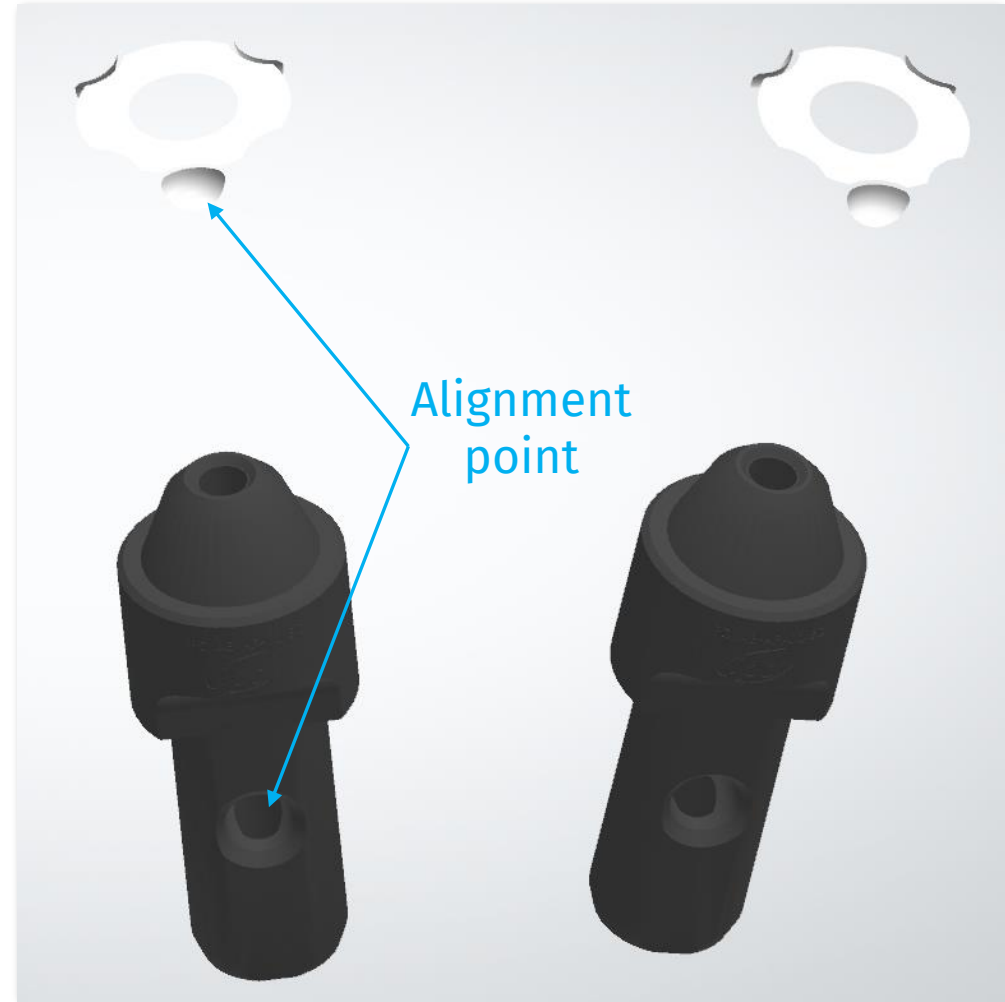
Library alignment

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.

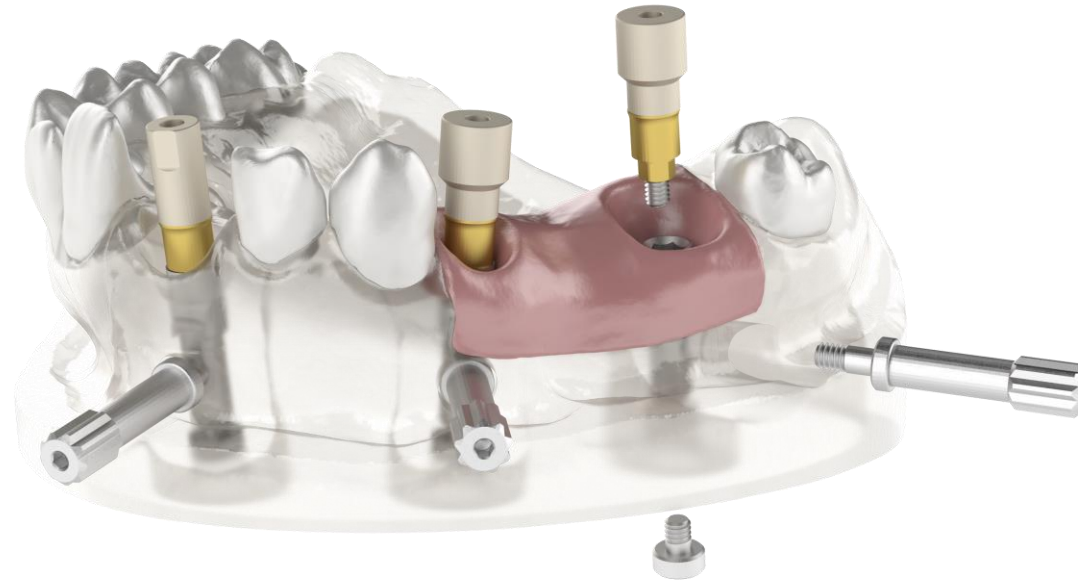




3D Analog

- **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:





Dental Group

