

3Shape Library USER GUIDE



DISCLAIMER

All trademarks and other distinctive signs, designs, patents, text, photographs, graphics or other creations of IPD are the exclusive property of Implant Protesis Dental 2004 S.L. and are duly protected by legislation on intellectual property. Therefore, any use, reproduction or other form of exploitation of the exclusive rights of IPD requires prior written consent.

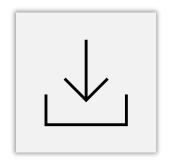
All other trademarks mentioned are property of their respective owners and neither them nor the trademarks are associated to Implant Protesis Dental 2004 SL.

The use of IPD products must be in accordance with IPD's instructions to ensure compliance with all procedures involved in the use of the product and in accordance with generally accepted good dental practice.





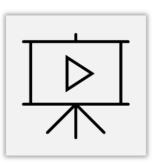




Install



Library types and use



3D Analog side screw



Request libraries from the website



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

| (ipd) | | Training V Digital Support V News V Shop Online |
|-------|--|---|
| | Request our free libraries | |
| | Company* | Contact person* |
| | VAT Number* | Address* |
| | City* | ZIP code* |
| | Country* | Contact phone* |
| | E-mail address* | Select CAD system \$ |
| | | Select the system you want to receive |
| | Comments | |
| | ☐ I accept the legal conditions and Privacy policy | у |
| | SEND | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |











Home Page



System Settings

System Settings

H<u>e</u>lp

- 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
- > Training Center
- 154 3Shape Communicate



Basic elements

- 🚵 Materials Colors
- Margin line
- Attachments
- 1 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



Select "Import/Export"

Abutments

- ▲ Top cap libraries
- Implant systems



Post and Core

- Post and Core systems
- Post and Cores





Connectors



Full dentures

- Design settings
- Gingivae
- Smile Libraries Chart



Removables

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



Digital model

- Digital model design Articulator interfaces



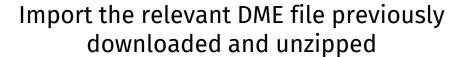
Appliances

-) Orthodontics Control Panel
- ₩ Positioning Guide

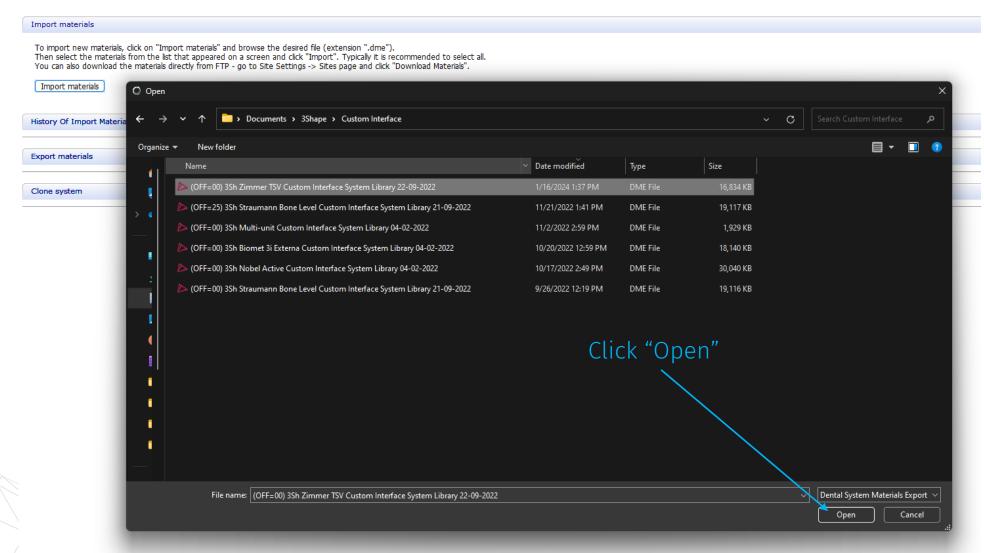




Select "Import materials"

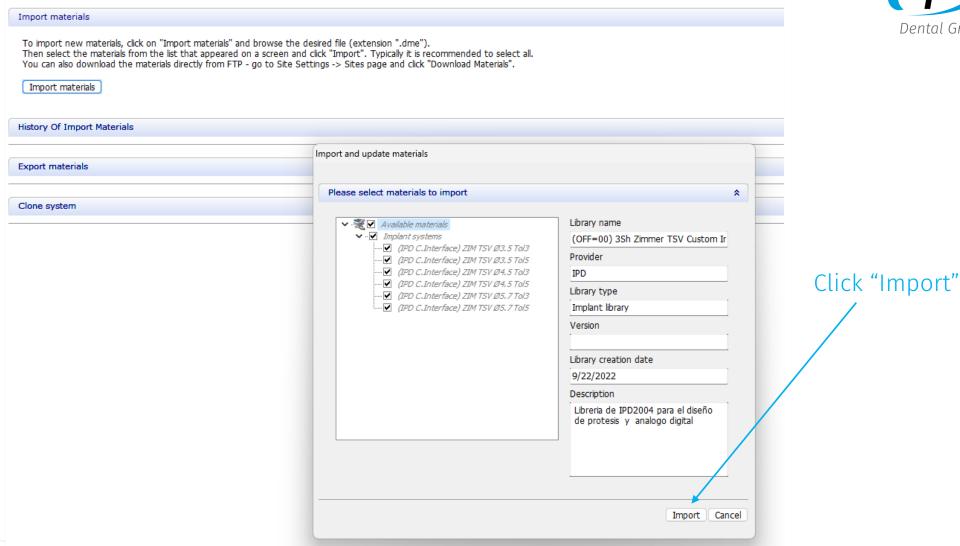








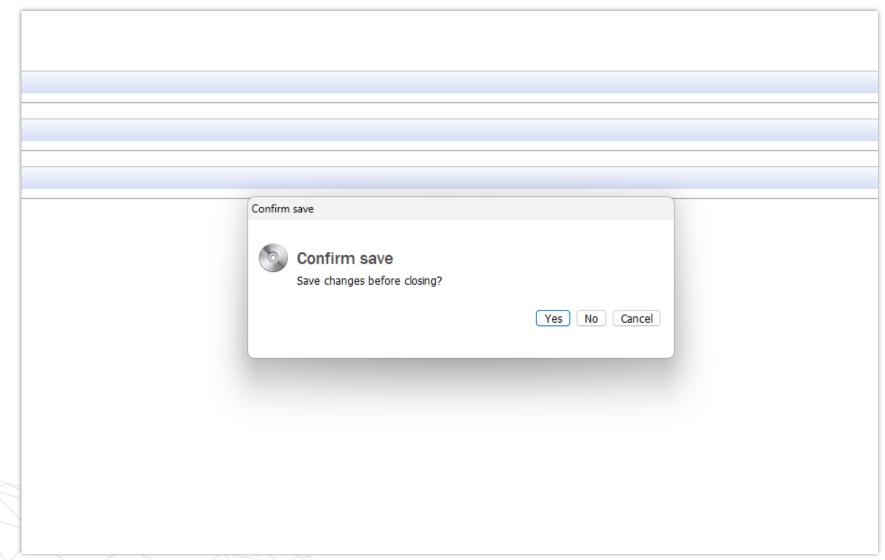








Save changes before close 3Shape Dental System Control Panel





Library types



Scan Abutment



Scan Transfer





ipdDental Group

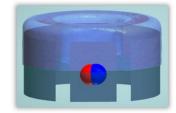
Scan Abutment Libraries

Ti-Base level



Implant Level





CAD alignment, ASC & design





ipdDental Group

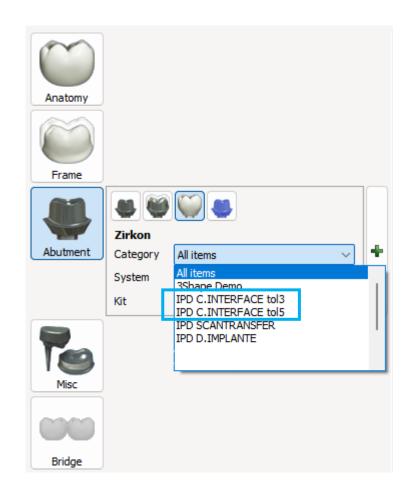
Category

IPD C.INTERFACE tol3:

Ti-base level libraries supporting a 30 microns cement gap (usually recommended for single crowns)

IPD C.INTERFACE tol5:

Ti-base level libraries supporting a 50 microns cement gap (usually recommended for multiple frameworks)



Custom Ti-Base



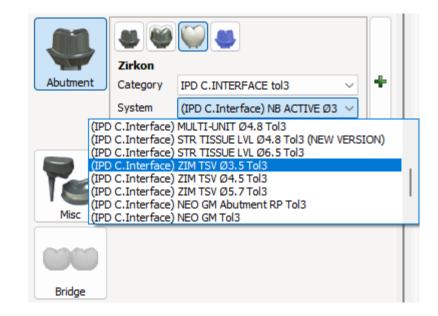
System



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

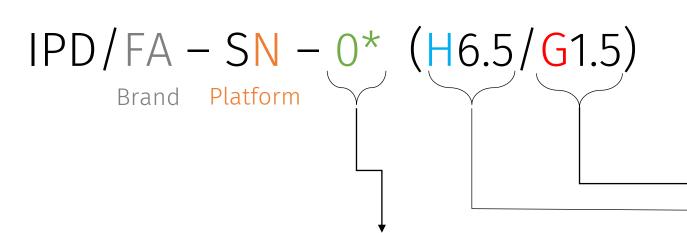


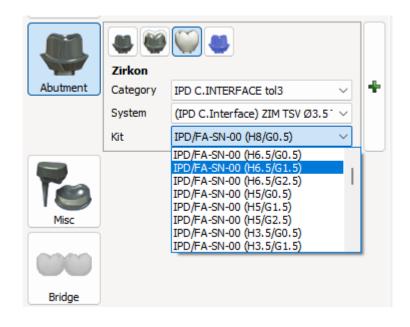


Kit

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





Eng/Non Eng00 → 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





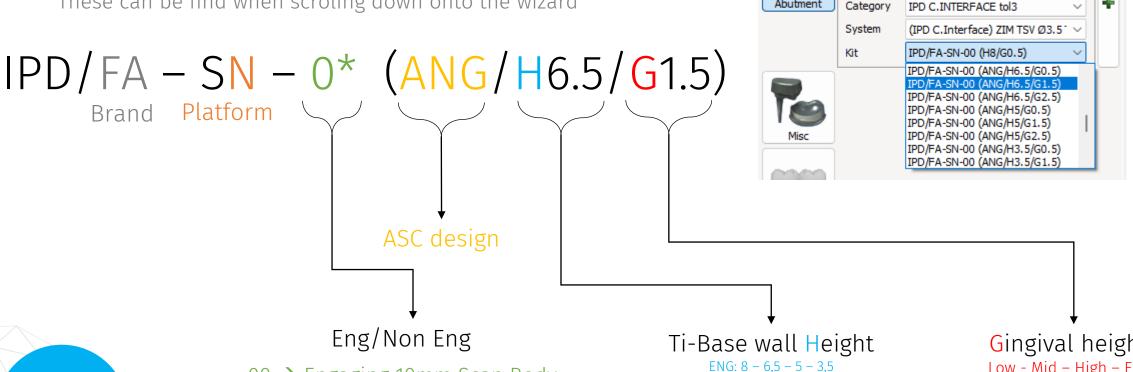
Zirkon

NON-ENG: 6.5* - 5* - 3.5

*Avialibility to be confirmed

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

These can be find when scroling down onto the wizard



Custom **ASC** Ti-Base 00 → Engaging 10mm Scan Body

02 → Engaging 15mm Scan Body

01 → Non-Engaging Scan Body

Gingival height*

Low - Mid - High - Extra

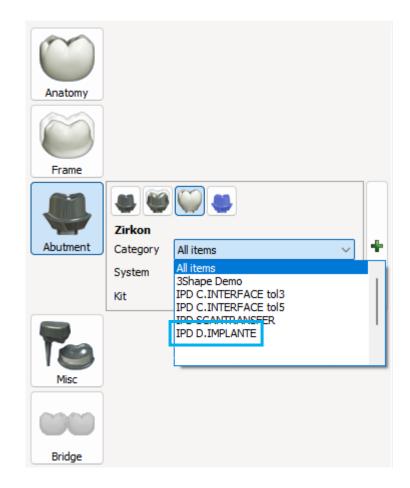
* Available hights may differ depending on implant system



lipdDental Group

Category

IPD D.IMPLANTE: Implant level libraries (at implant connection without abutment)





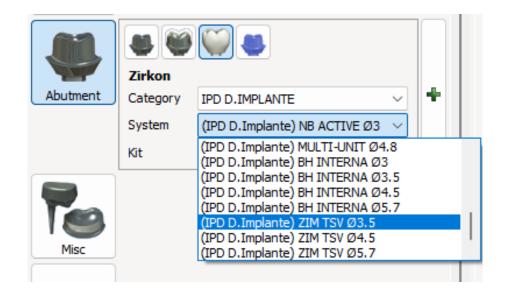


System



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

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



Implant Level

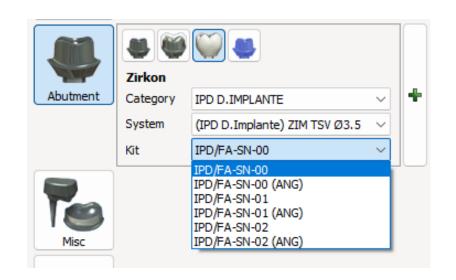






All IPD library files are using Scan Abutment reference code to drive the whole selection.





Eng/Non Eng

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

Implant Level





Zirkon

Category

System

IPD D.IMPLANTE

IPD/FA-SN-00 IPD/FA-SN-00

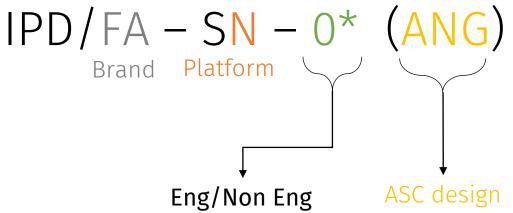
IPD/FA-SN-00 (ANG) IPD/FA-SN-01 IPD/FA-SN-01 (ANG) IPD/FA-SN-02 IPD/FA-SN-02 (ANG)

(IPD D.Implante) ZIM TSV Ø3.5

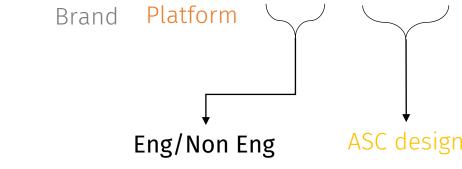
Abutment

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

These can be find when scroling down onto the wizard



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



Implant Level



(ipd)Dental Group

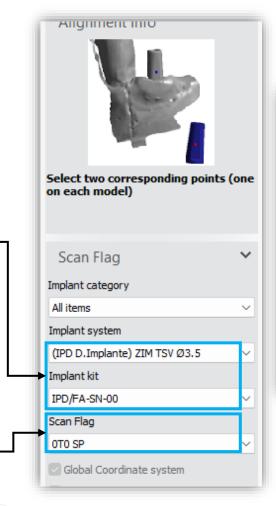
Make sure Implant System and kit are matching with the Order Form selection.

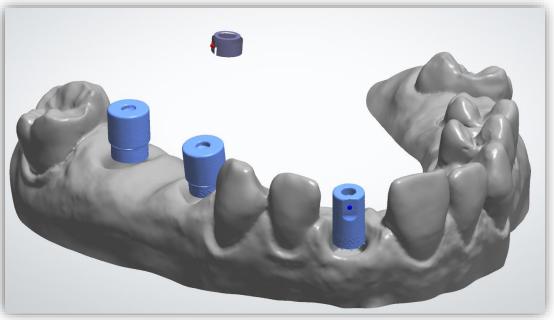
* Important Advice:

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)





(ipd) Dental Group

Library alignment

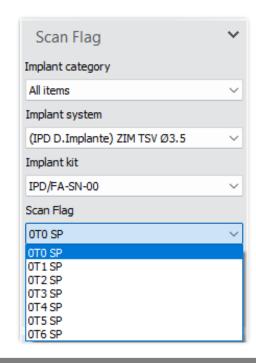
Scan Abutment Tolerance tool

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.

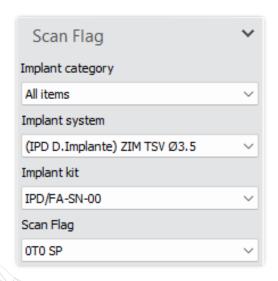


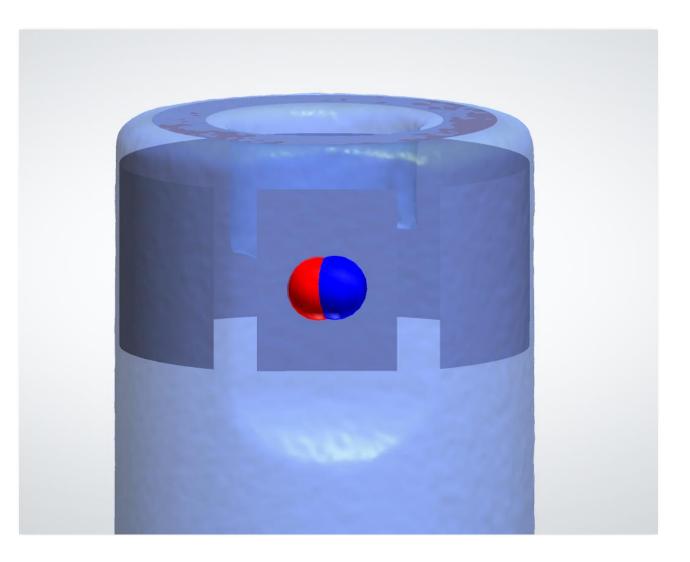
- T0 Std STL (= physical dimension)
- T1 Std STL + 10 microns
- T2 Std STL + 20 microns
- T3 Std STL + 30 microns
- T4 Std STL + 40 microns
- T5 Std STL + 50 microns
- T6 Std STL + 60 microns





Alingment using "T0" Tolerance

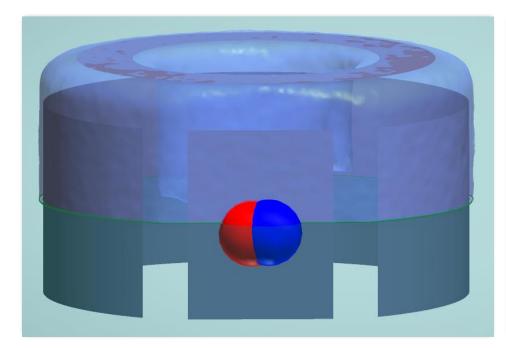


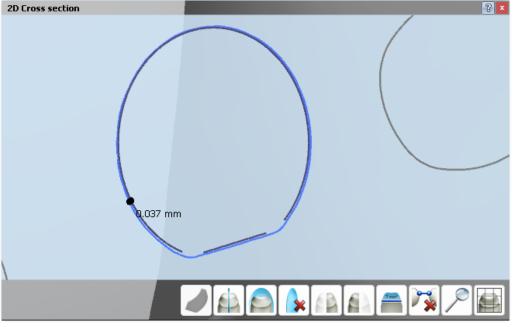






Using the "2D Cut" to evaluate dimensional discrepancy



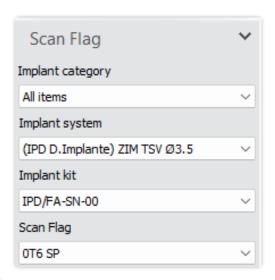


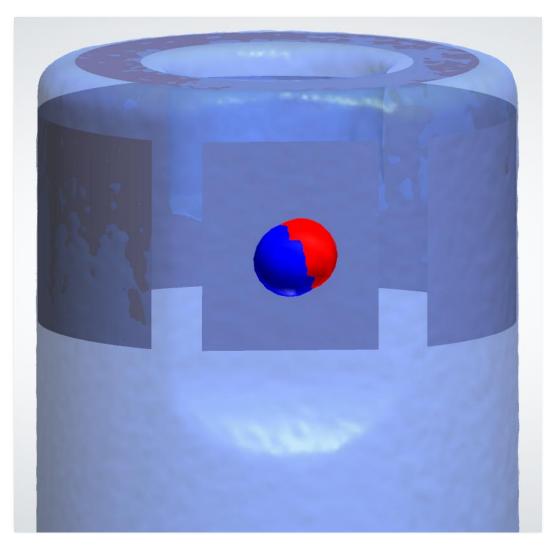






Alingment using "T6" Tolerance



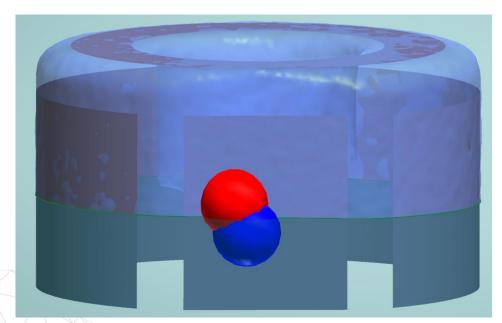


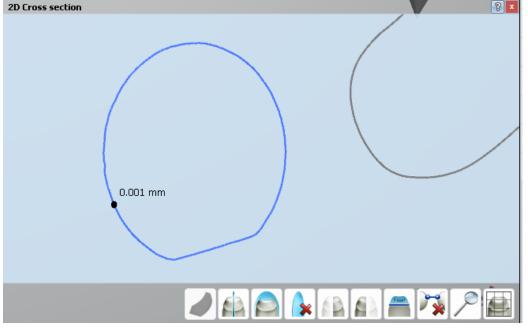




зshape▶

Using the "2D Cut" to evaluate dimensional discrepancy





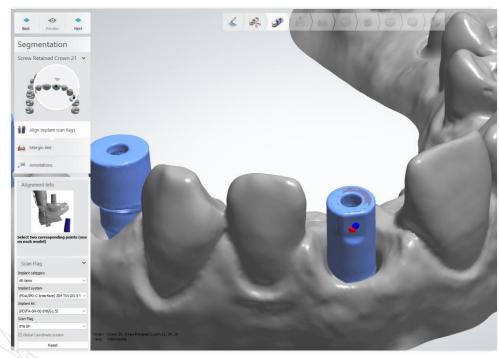


ASC Guidance



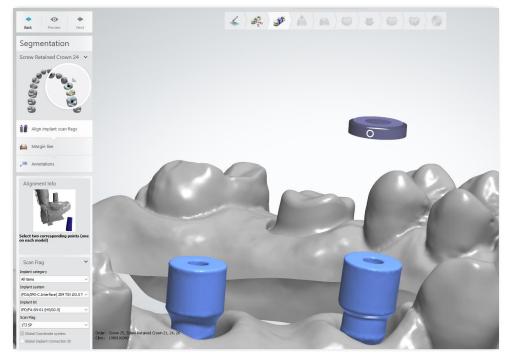
ASC Design – Guiding the screw channel

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

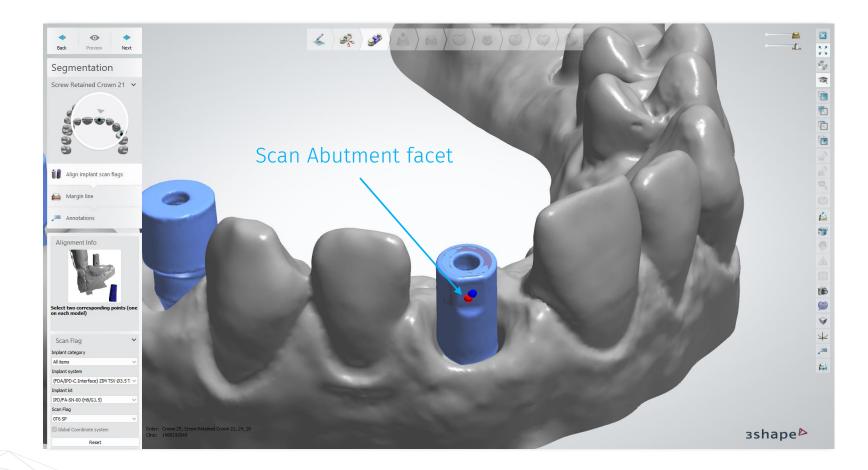


Engaging

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.

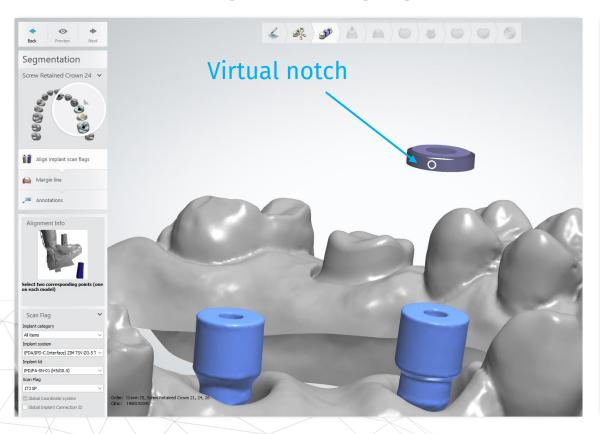


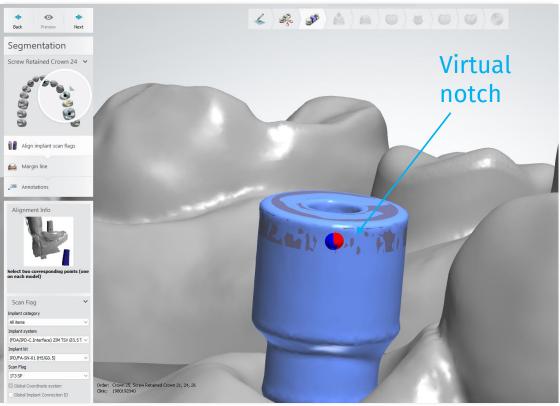
(ipd) Dental Group

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.





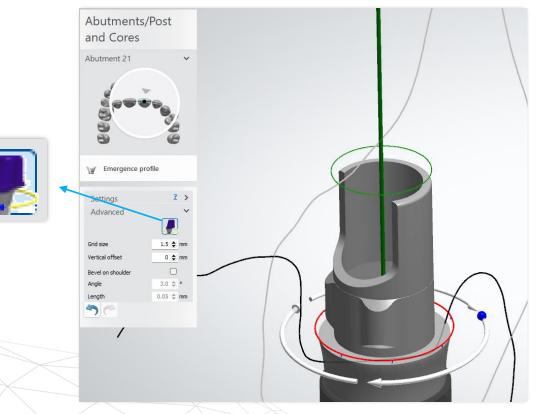


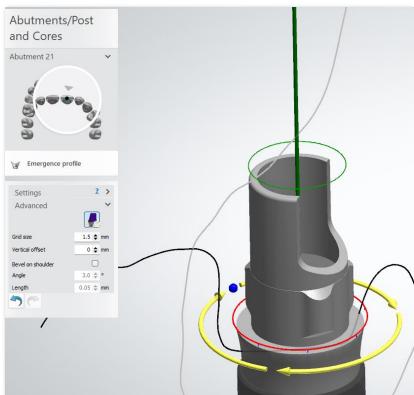


ASC Ti-base Guidance

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.





For internal use only. Do not distribute



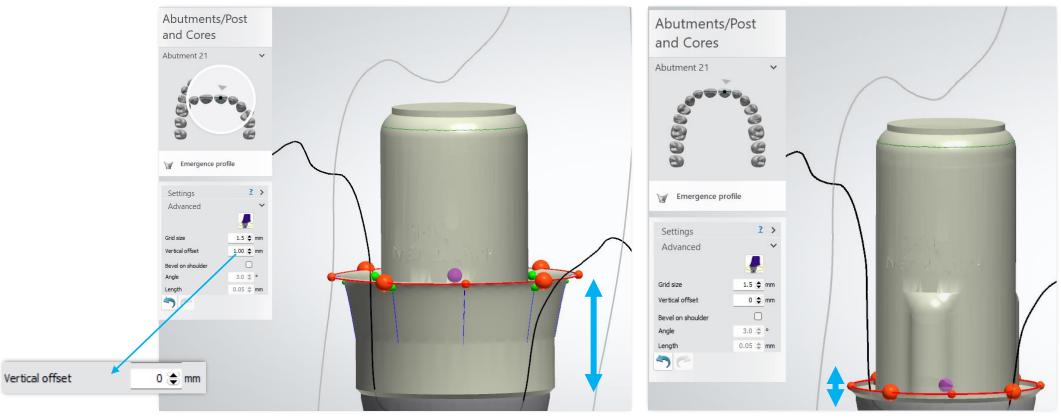


Emergence profile design

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











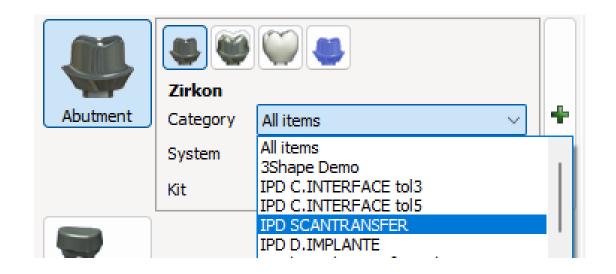






IPD ScanTransfer:

Dedicated Scan Transfer Libraries

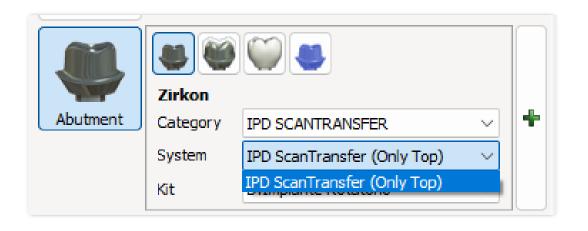




System



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



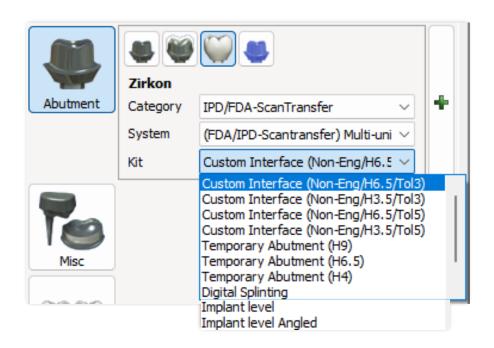






Each of the supported options will be shown as follows:

- 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)



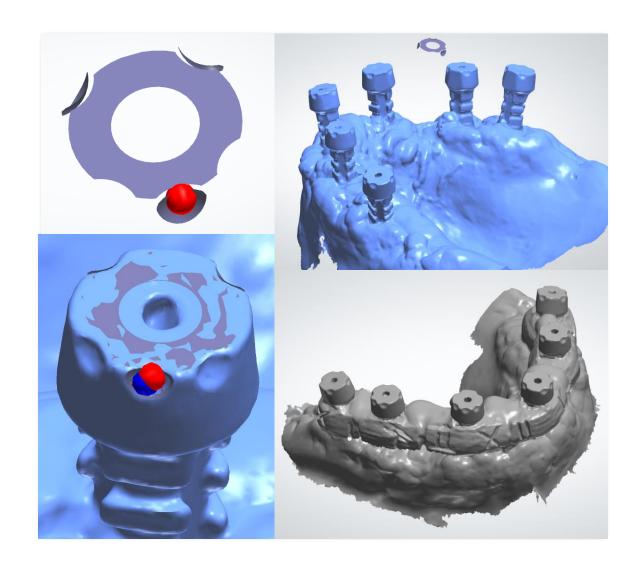
Scan Transfer

(ipd) Dental Group

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.



Scan Transfer

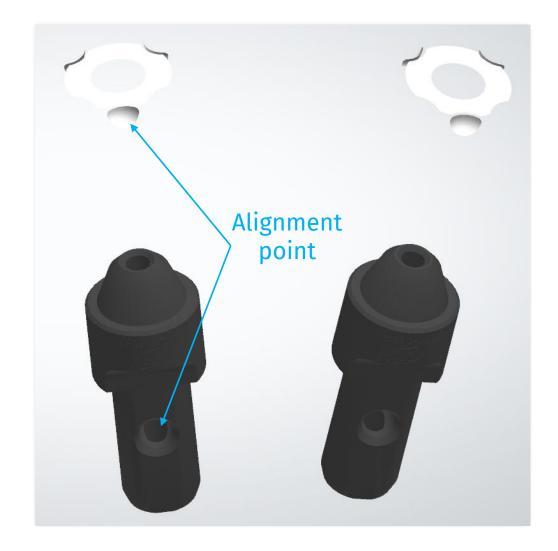


On the Scan Transfer library, guidance of the side screw channel facing matches with the alignment point.

* 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:





