



Dental Group

exocad Library

USER GUIDE





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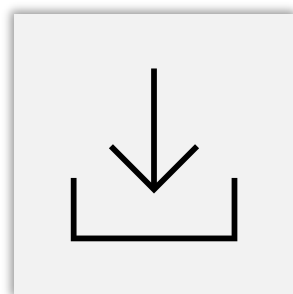
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Interactive
show



Install



Library types and use



Request libraries from the website

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

A computer monitor with a black bezel and a silver base. The screen displays the IPD website's 'Request our free libraries' form. The form includes fields for Company*, VAT Number*, City*, Country*, E-mail address*, Contact person*, Address*, ZIP code*, Contact phone*, and a dropdown for 'Select CAD system'. There is also a 'Comments' text area, a checkbox for 'I accept the legal conditions and Privacy policy', and a 'SEND' button. The website header shows the IPD logo and navigation links: IPD Group, Products, Downloads, Training, Digital Support, News, and a Shop Online button.

ipd
Dental Group

IPD Group Products Downloads Training Digital Support News 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](#)

SEND

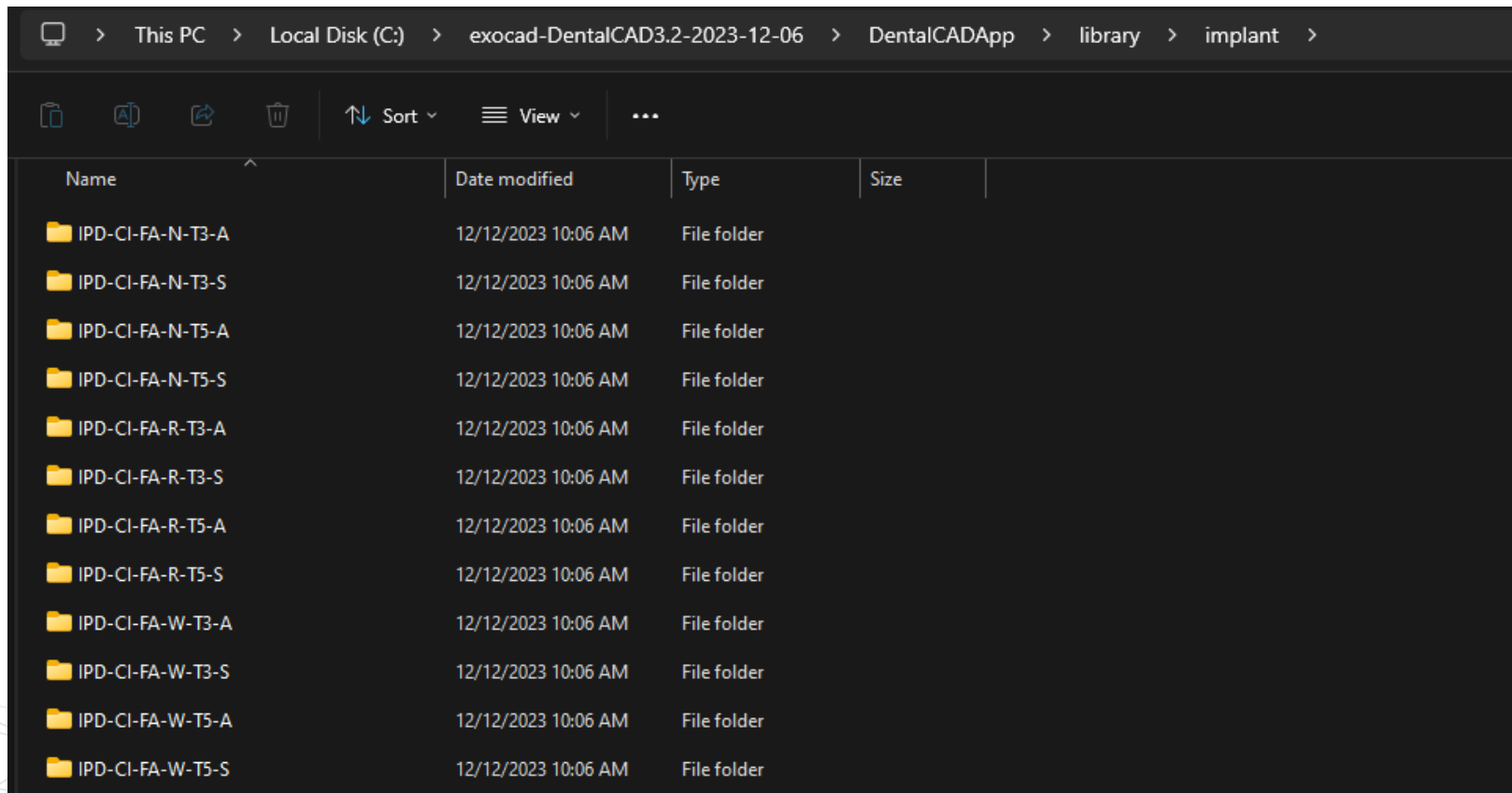
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You will receive an email with the requested library. Download, unzip and copy the files to the corresponding exocad folder.

E.g. `C:\exocad-DentalCAD3.2-2023-12-06\DentalCADApp\library\implant`





Scan Body types

Scan Abutment



Scan Transfer





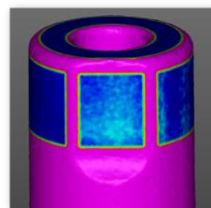
Back to Scan Body types

Scan Abutment Libraries

Ti-Base level



Implant Level



CAD alignment, ASC & design

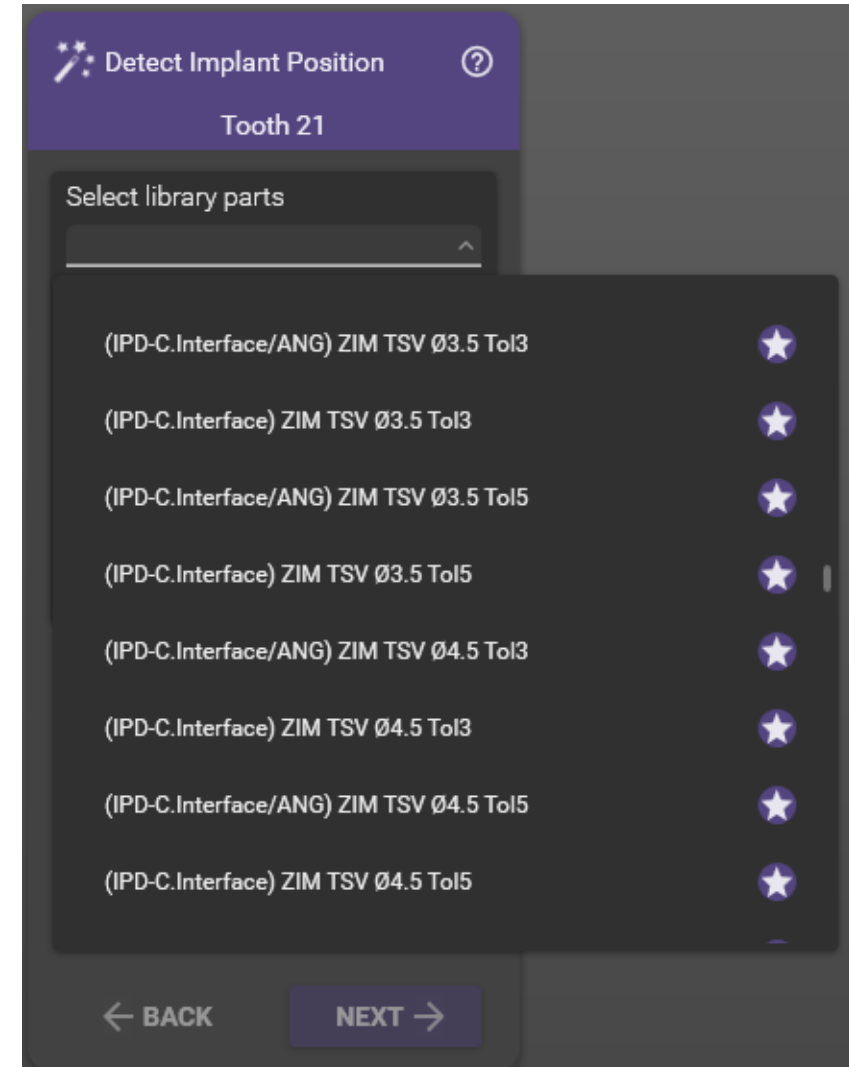




Library selection

- **E.g. (IPD-C.Interface) ZIM TSV Ø3.5 Tol3:** Ti-base level libraries supporting a 30 microns cement gap (usually recommended for single crowns)
- **E.g. (IPD-C.Interface) ZIM TSV Ø3.5 Tol5:** Ti-base level libraries supporting a 50 microns cement gap (usually recommended for multiple frameworks)

Custom
Ti-Base





Custom Ti-Base selection

- Ti-Base Level**

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

IPD/FA – SN – 0* (H6.5)

Brand

Platform

Eng/Non Eng

Ti-Base wall 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

Custom
Ti-Base

Detect Implant Position ?

Tooth 21

Select library parts

(IPD-C.Interface) ZIM TSV Ø3.5 ToI3 ▾

Select an option ^

- IPD/FA-SN-00 (H8)
- IPD/FA-SN-00 (H6.5)
- IPD/FA-SN-00 (H5)
- IPD/FA-SN-00 (H3.5)
- IPD/FA-SN-01 (H6.5)
- IPD/FA-SN-01 (H5)
- IPD/FA-SN-01 (H3.5)
- IPD/FA-SN-02 (H8)
- IPD/FA-SN-02 (H6.5)
- IPD/FA-SN-02 (H5)
- IPD/FA-SN-02 (H3.5)

← BACK

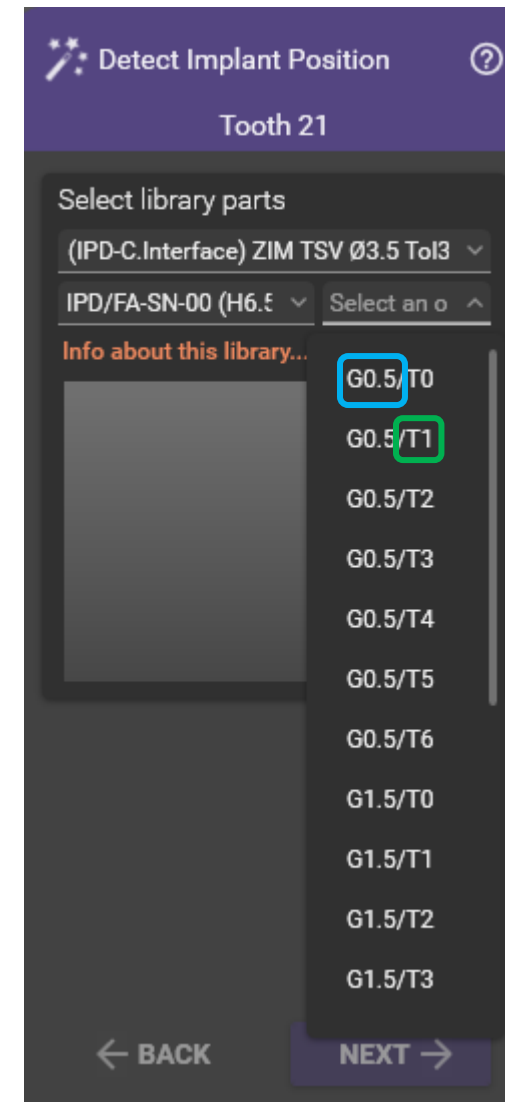
NEXT →



Custom Ti-Base selection

- **Gingival height:** Ti-base level libraries supports different gingival heights, represented by the coding “**G0.5**” e.g. (different heights availables depending on brands and connections type)
- **Scan Abutment Tolerance:** IPD libraries supports 7 different library offset to align the Scan Abutment, represented by the coding “**T1**” e.g. (for more information about this topic, visit the “CAD Alignment” section in the manual)

Custom
Ti-Base

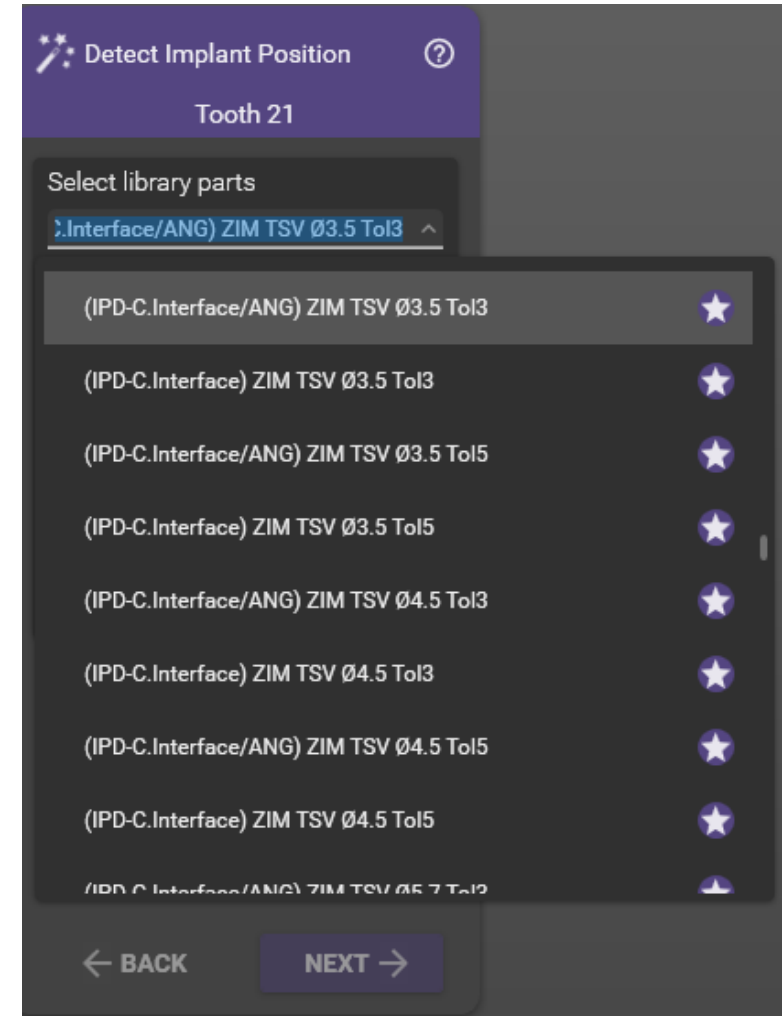




ASC Library selection

- **E.g. (IPD-C.Interface/ANG) ZIM TSV Ø3.5 Tol3:**
Angulated Ti-base level libraries supporting a 30 microns cement gap (usually recommended for single crowns)
- **E.g. (IPD-C.Interface/ANG) ZIM TSV Ø3.5 Tol5:**
Angulated Ti-base level libraries supporting a 50 microns cement gap (usually recommended for multiple frameworks)

Custom
Ti-Base

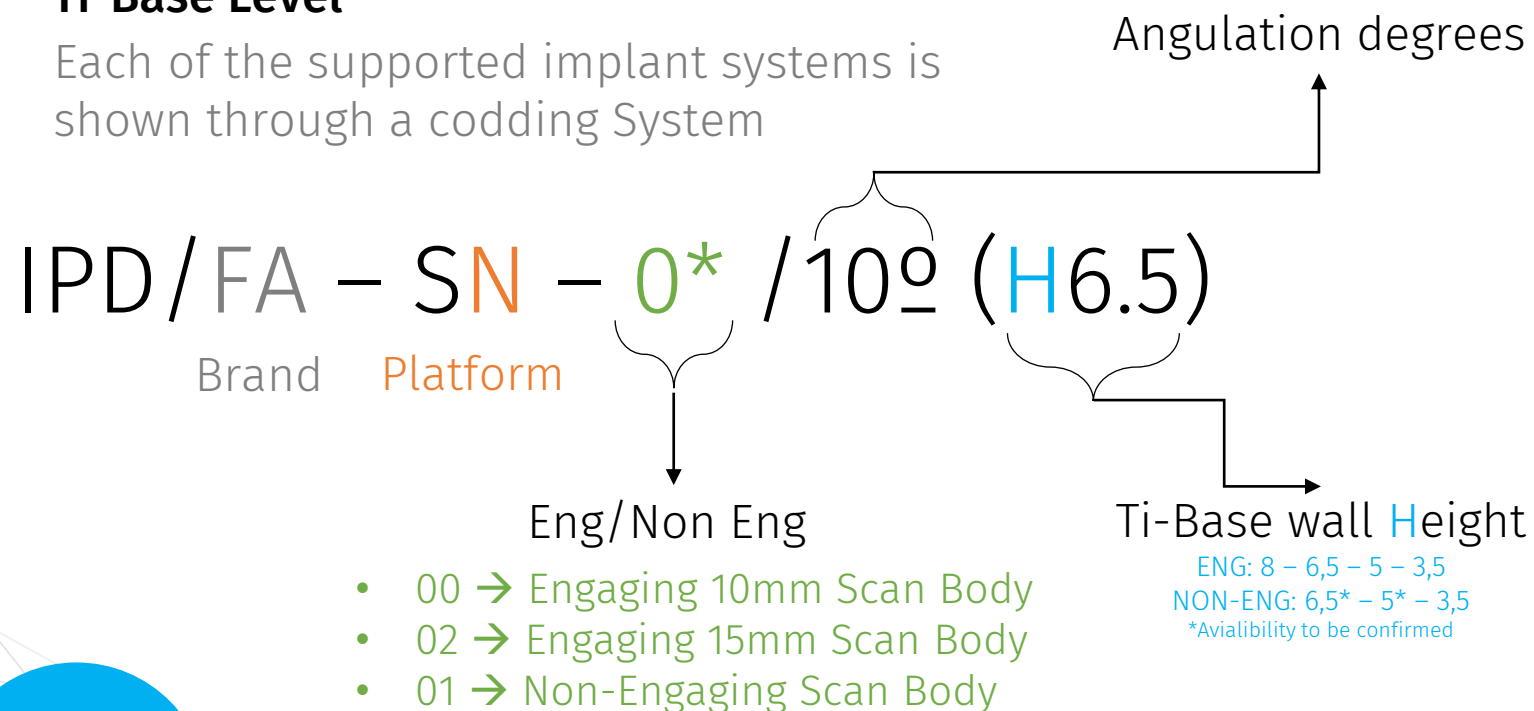




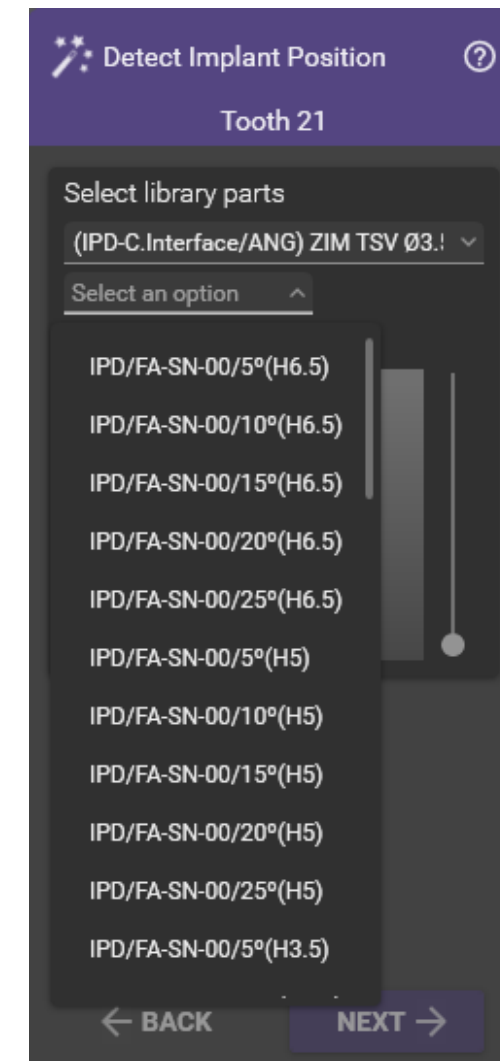
ASC Custom Ti-Base selection

- Ti-Base Level**

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



Custom
Ti-Base



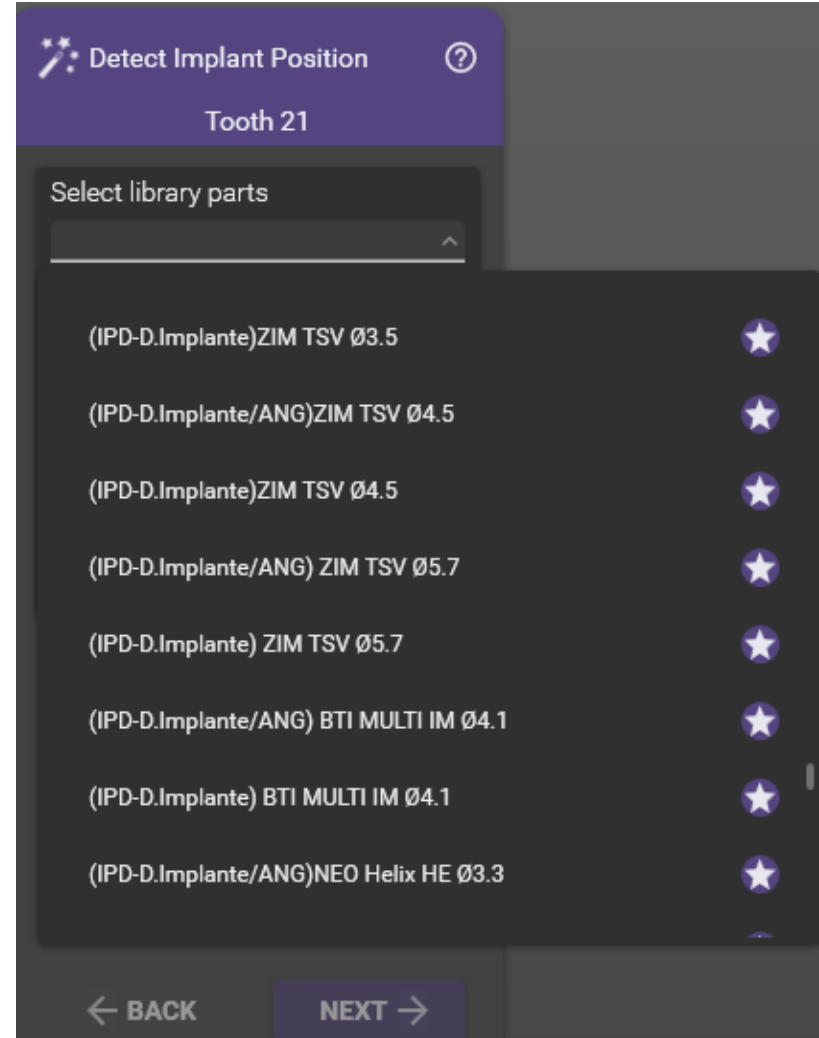


Back to libraries

Library selection

- **E.g. (IPD-D.Implante)ZIM TSV Ø3.5:**
Implant level libraries for unitary or multiple frameworks.

Implant
Level





Implant level selection

- **Implant Level**

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

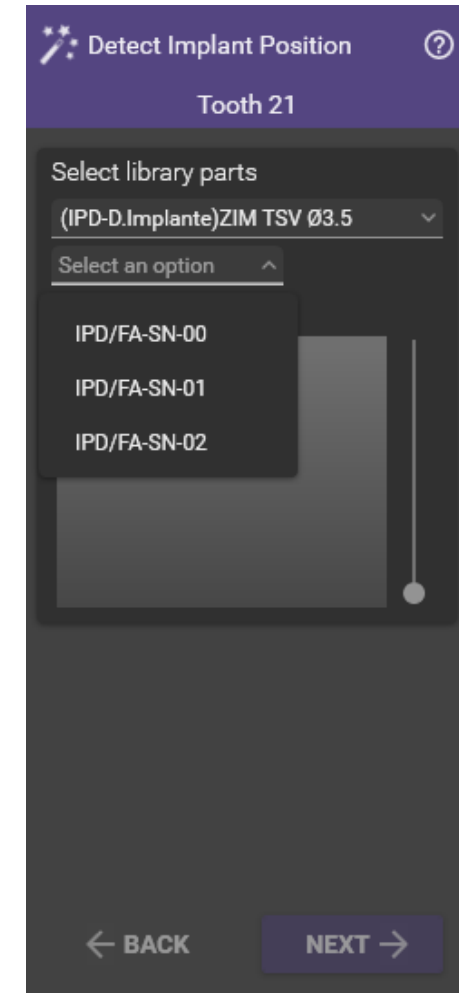
IPD/FA – SN – 0*

Brand Platform

Eng/Non Eng

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

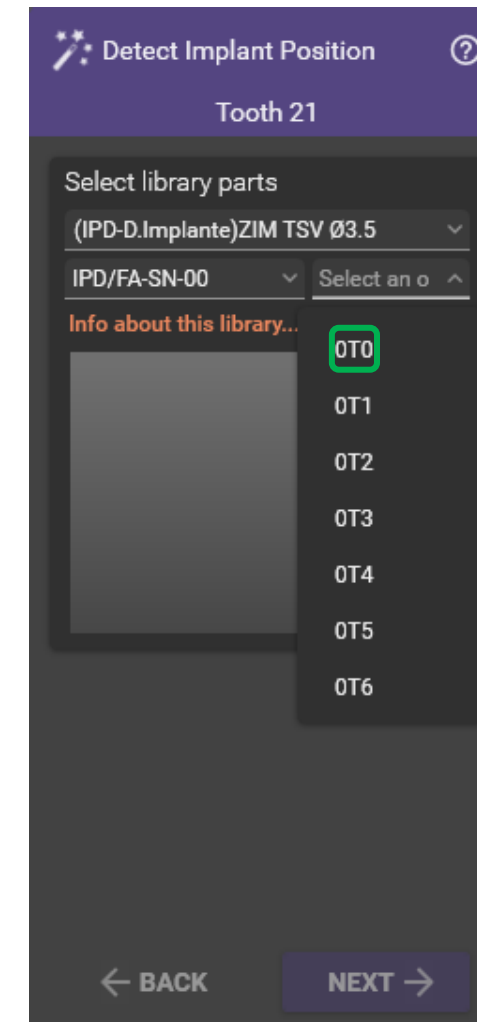
Implant
Level





Implant level selection

- **Scan Abutment Tolerance:** IPD libraries supports 7 different library offset to align the Scan Abutment, represented by the coding “**T0**” e.g. (for more information about this topic, visit the “CAD Alignment” section in the manual)



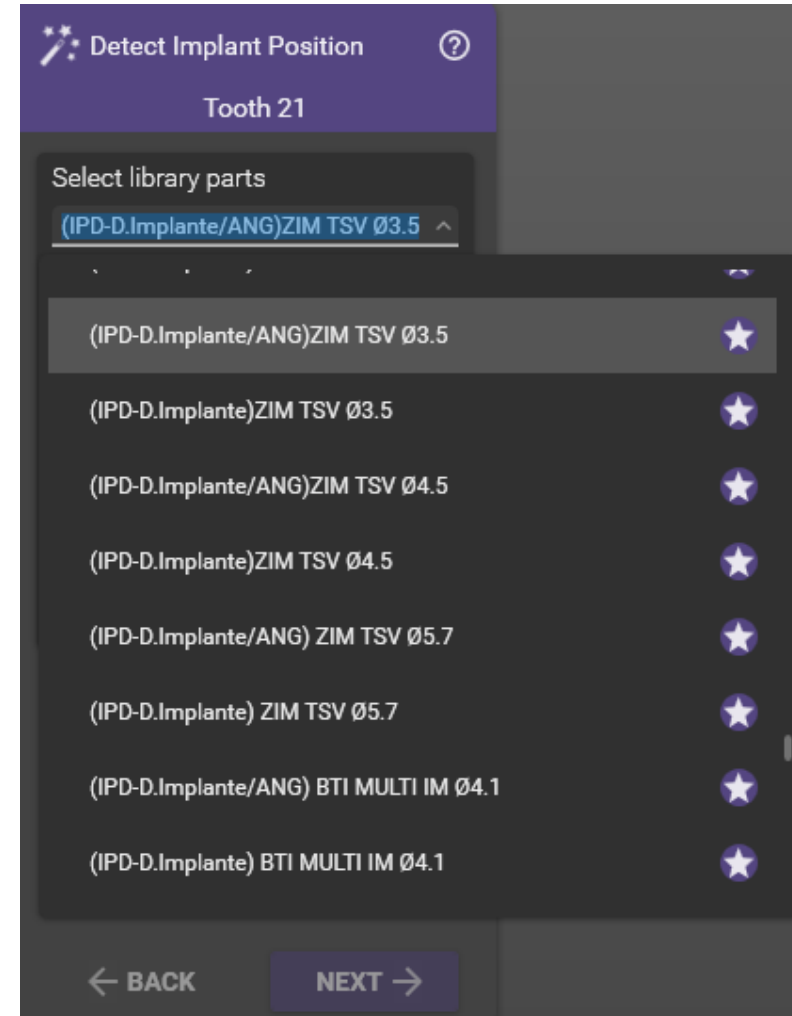
Implant
Level



ASC Library selection

- **E.g. (IPD-D.Implante/ANG)ZIM TSV Ø3.5:**
Implant level libraries for unitary or multiple frameworks with angulated screw channel.

Implant
Level





ASC Implant level selection

- ASC Implant Level**

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

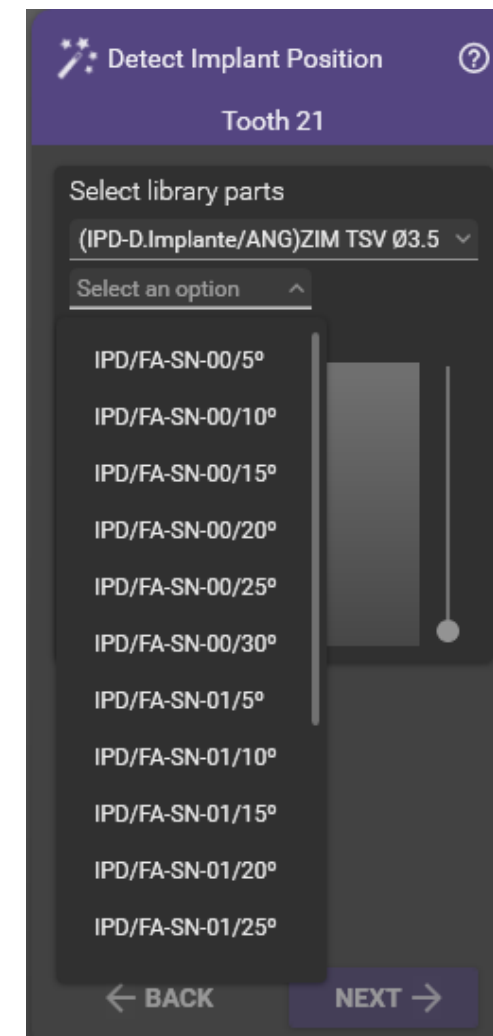
IPD/FA – SN – 0* – /100 → Angulation degrees

Brand Platform

Eng/Non Eng

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

Implant
Level

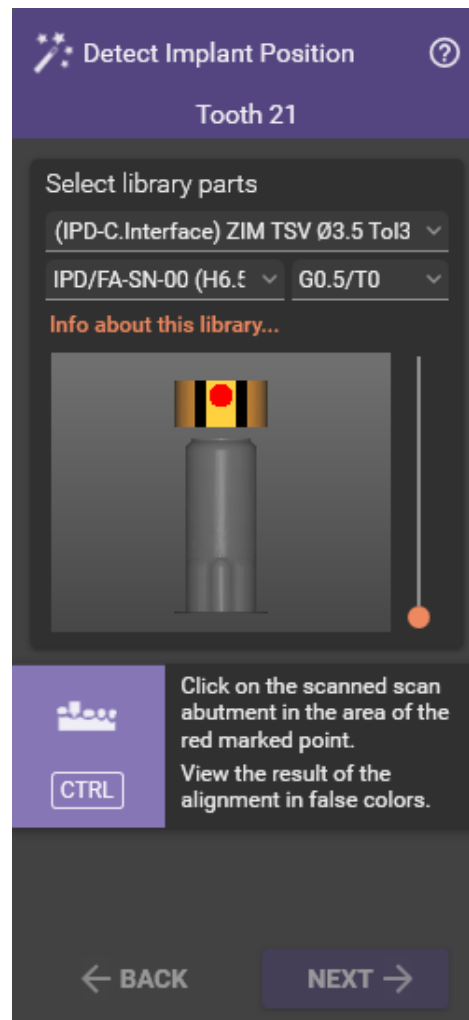




Back to libraries

Library alignment

Select the relevant library
and align following exocad
instructions.





Library alignment

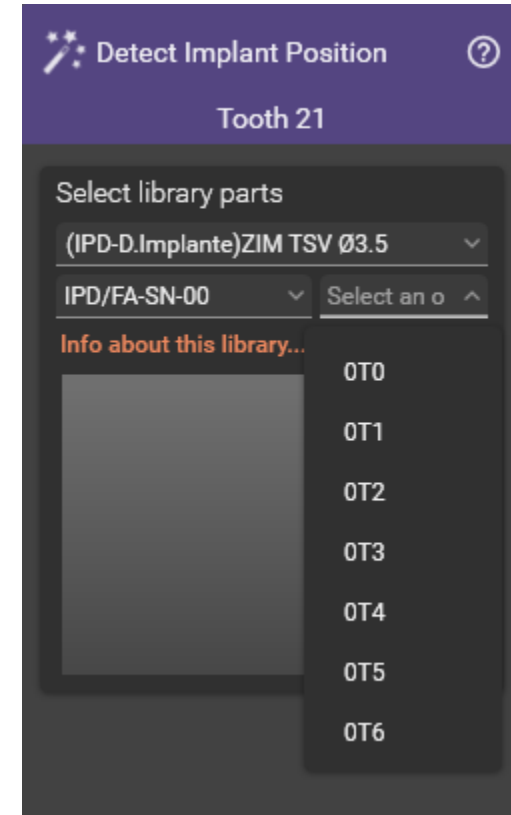
- **Scan Abutment Tolerance tool**

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 (= medida física)
- T1 - Std STL + 10 micras
- T2 - Std STL + 20 micras
- T3 - Std STL + 30 micras
- T4 - Std STL + 40 micras
- T5 - Std STL + 50 micras
- T6 - Std STL + 60 micras

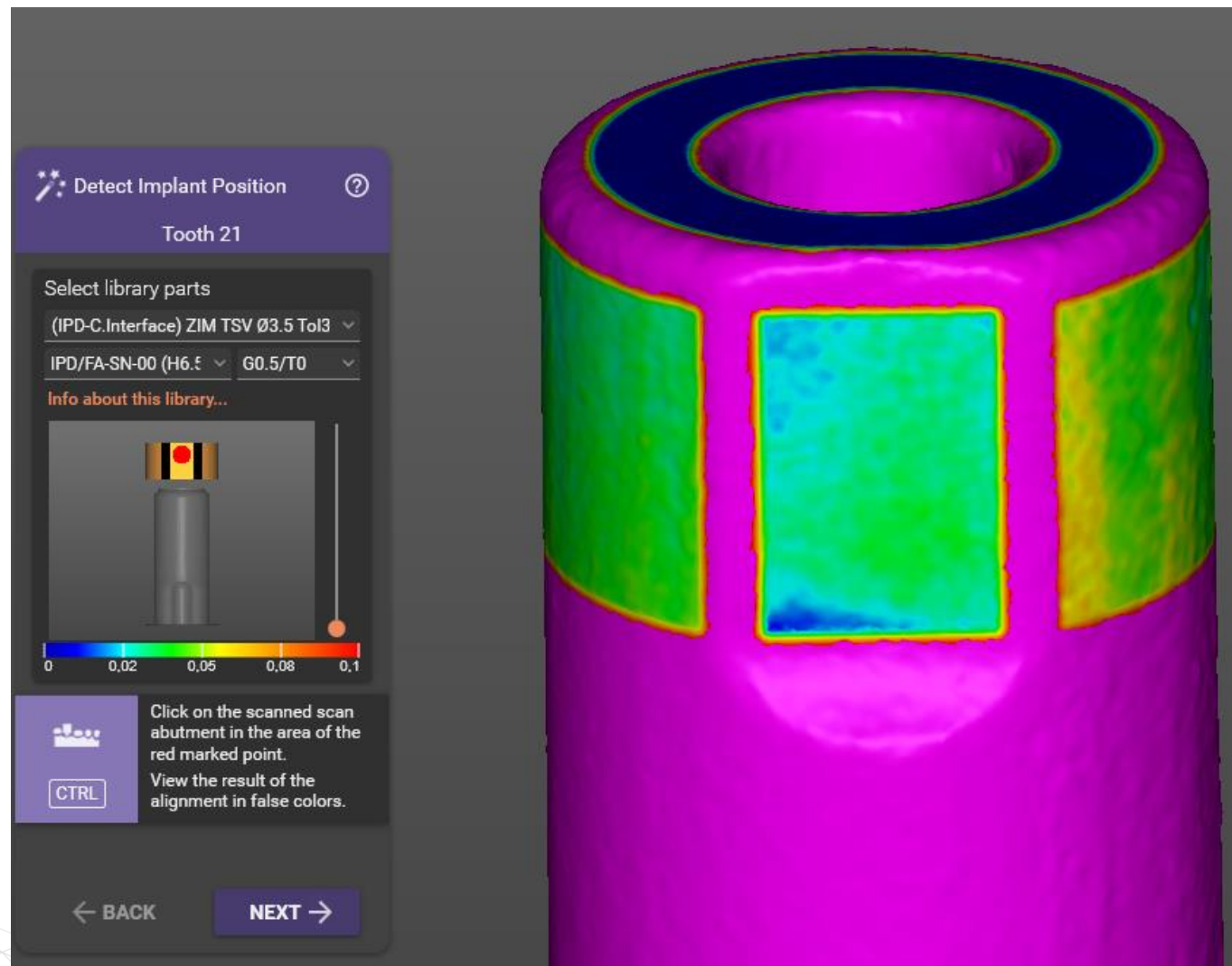


Back to libraries

Library alignment

Alignment using “T0” Tolerance

The distance map color shows the merging between library and scan file.



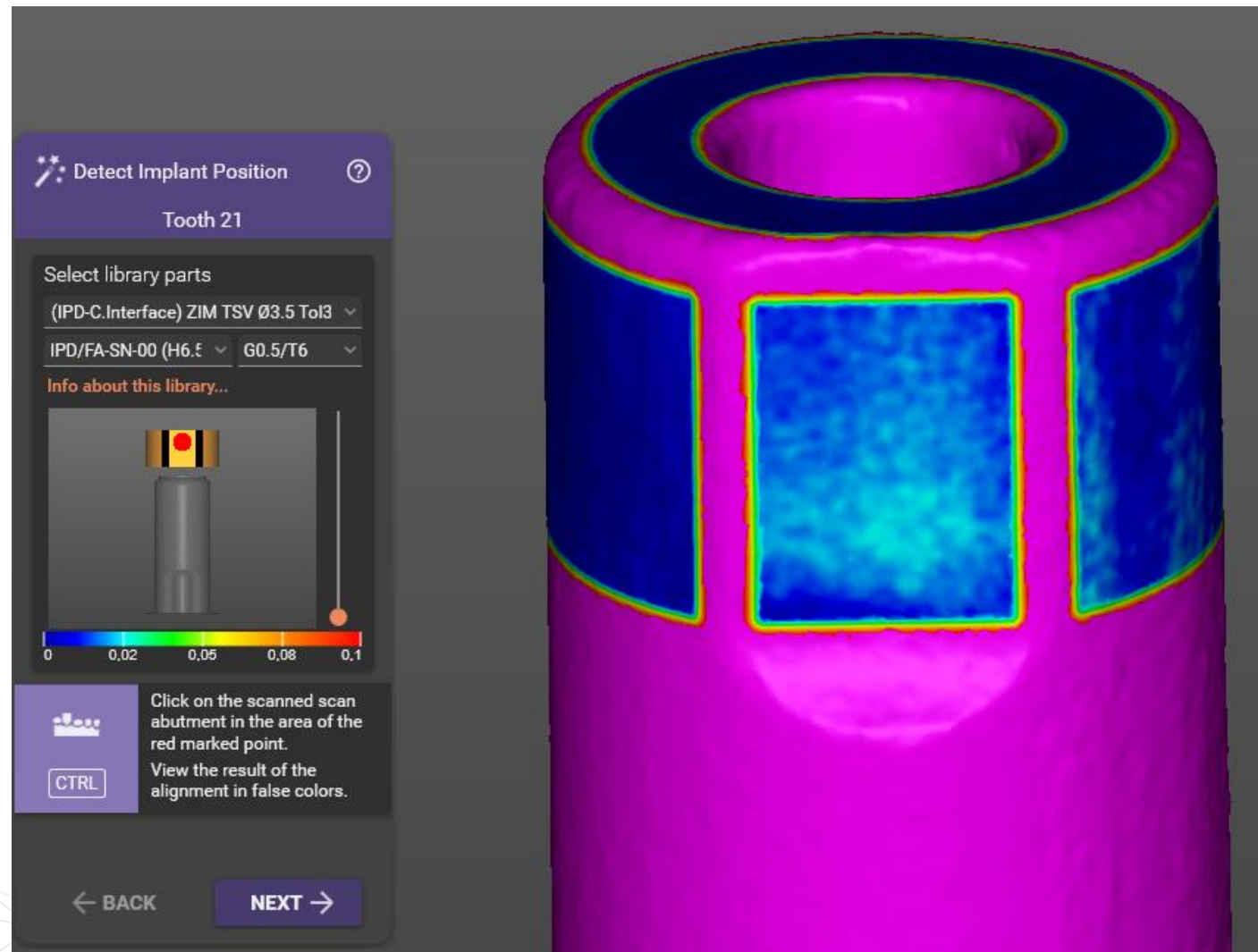


Back to libraries

Library alignment

Alignment using “T6” Tolerance

The distance map color shows the merging between library and scan file.

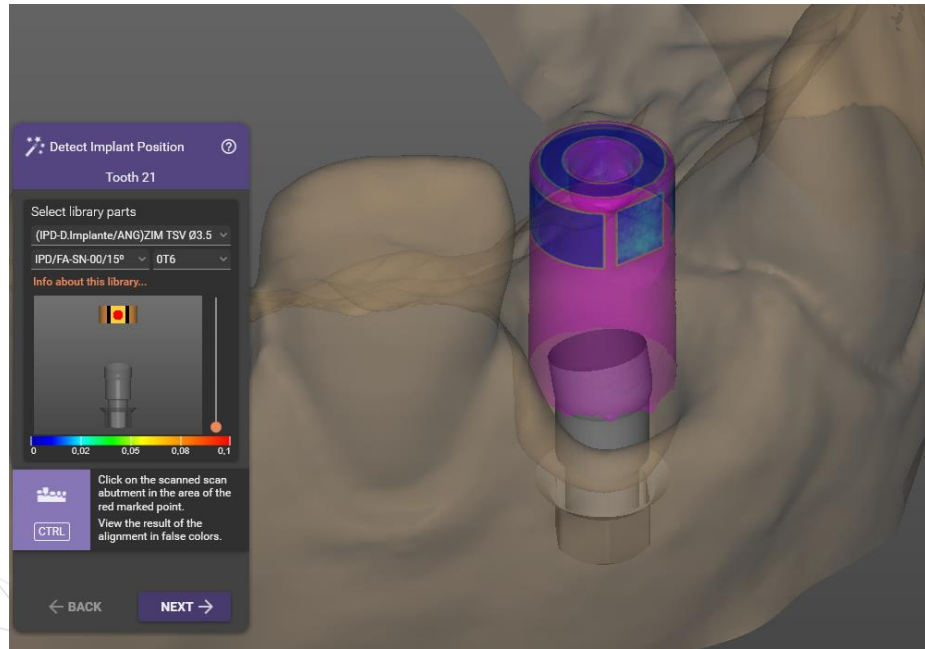




ASC Guidance

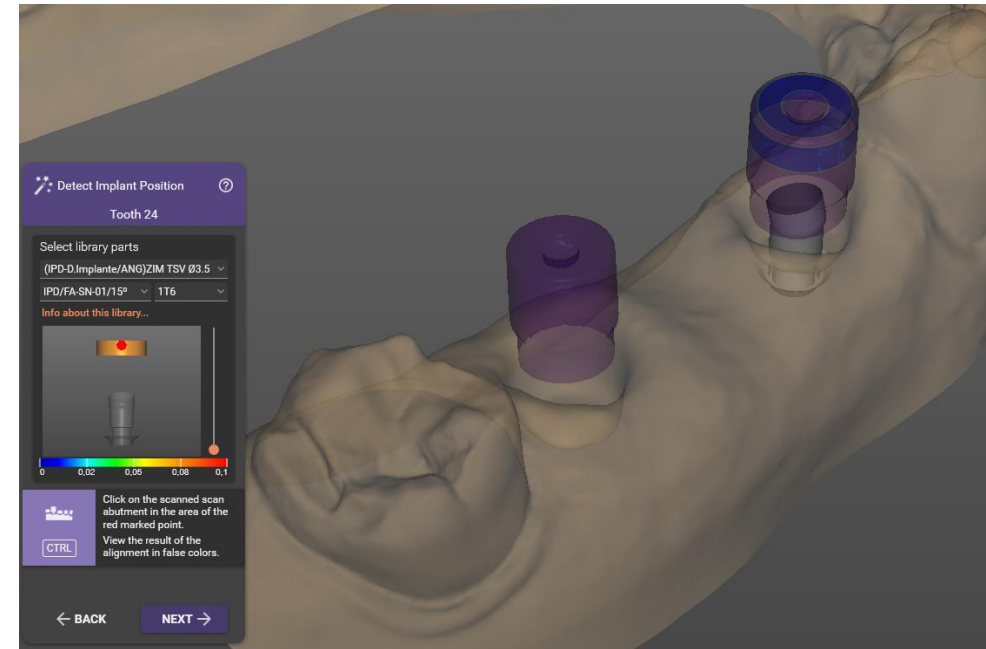
- **ASC Design – Guiding the screw channel**

When using ASC library, exocad 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.

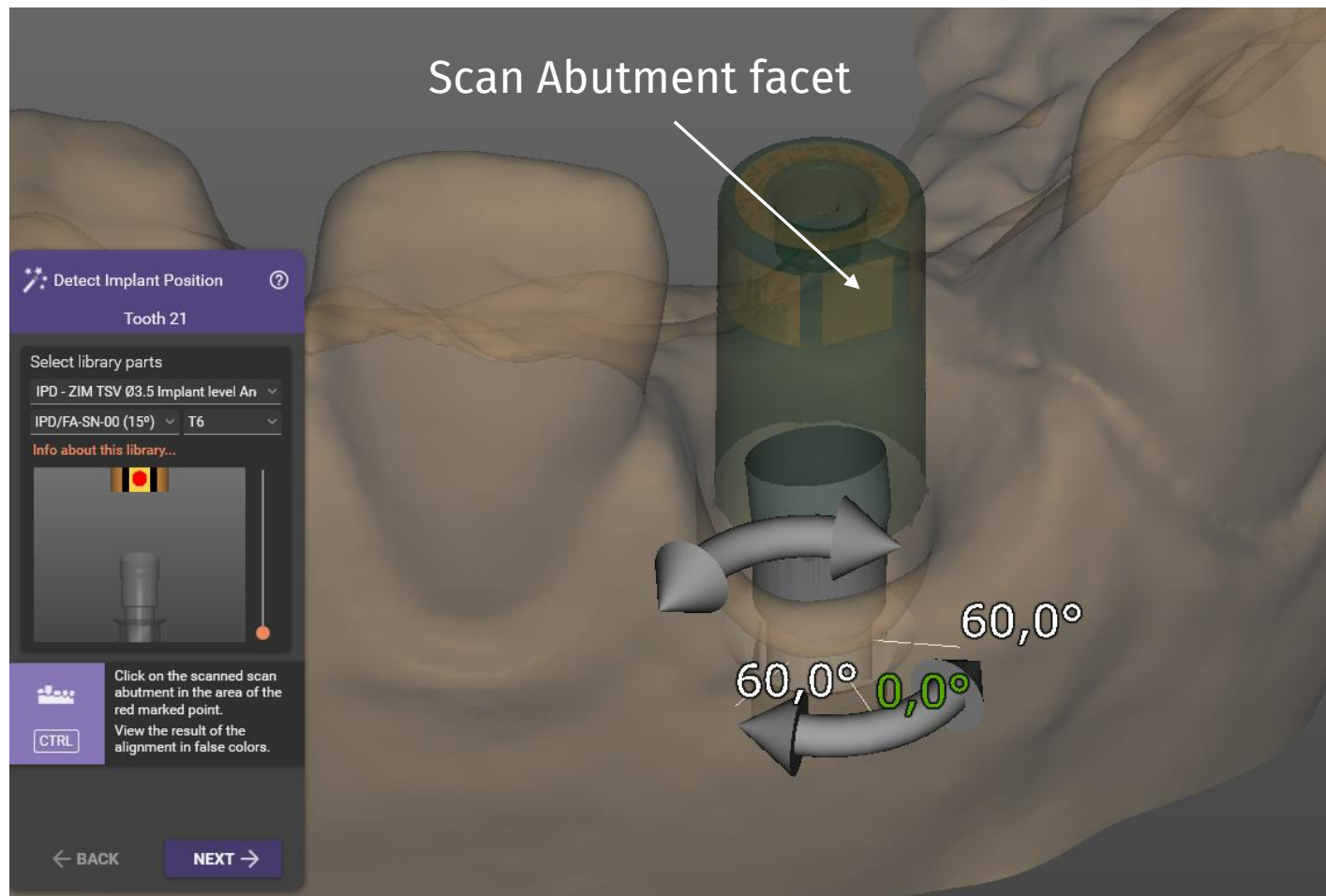


ASC Guidance

- **Engaging**

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

You can rotate the ASC direction using the bottom connection arrows. The available positions will be related to the corresponding implant system geometry.

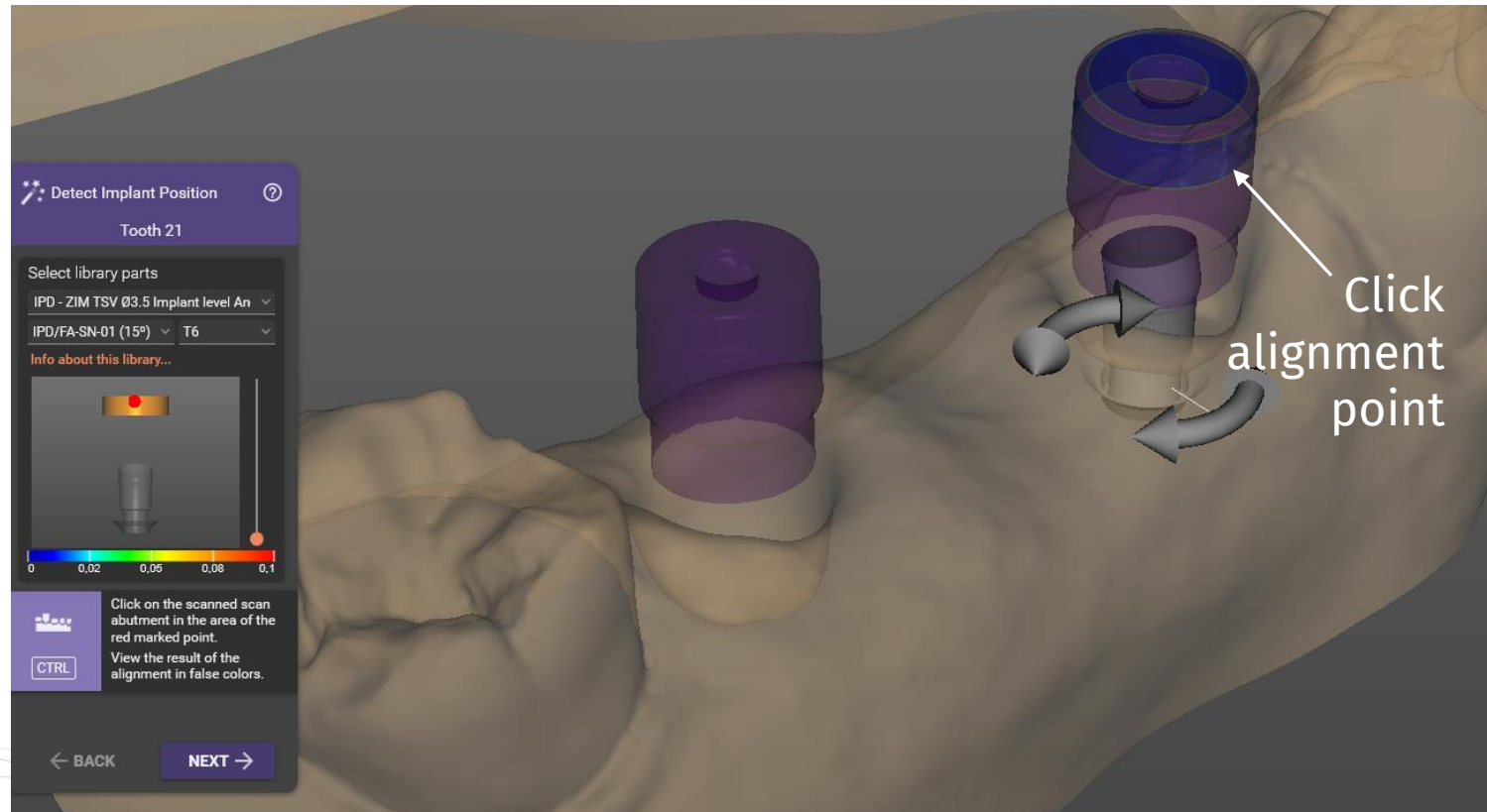




ASC Guidance

- **Non-Engaging**

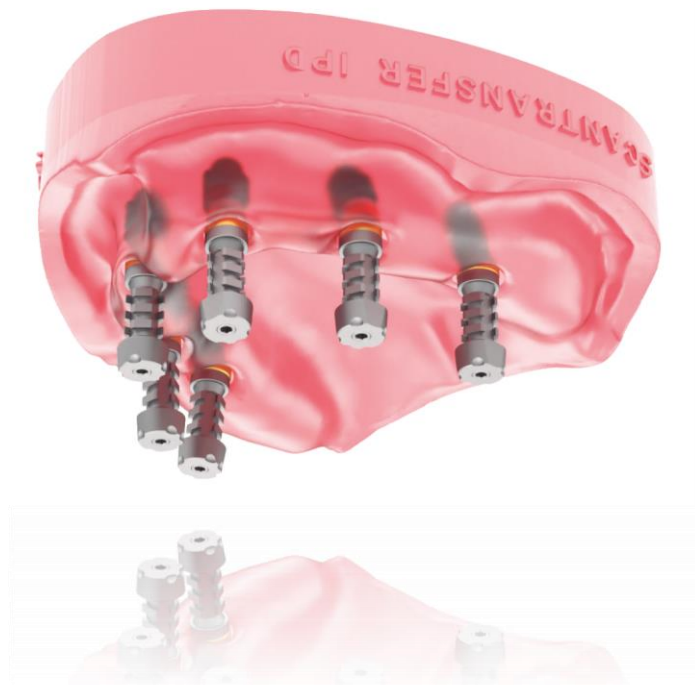
When using Non-Engaging ASC library, exocad will drive the ASC to the opposite were clicking on into the scanning file when aligning. You can rotate 360° the ASC direction using the bottom connection arrows.





[Back to Scan Body types](#)

Scan Transfer

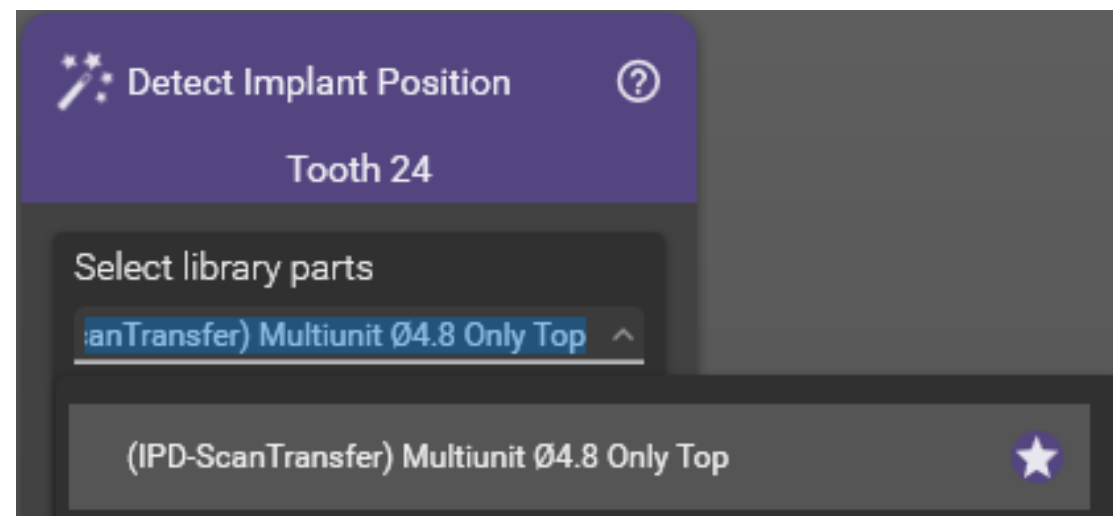




Back to Scan Body types

Scan Transfer Library

- **(IPD-ScanTransfer) Multiunit Ø4.8 Only Top:**
Dedicated Scan Transfer Libraries



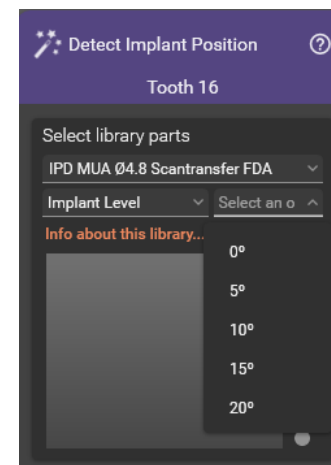
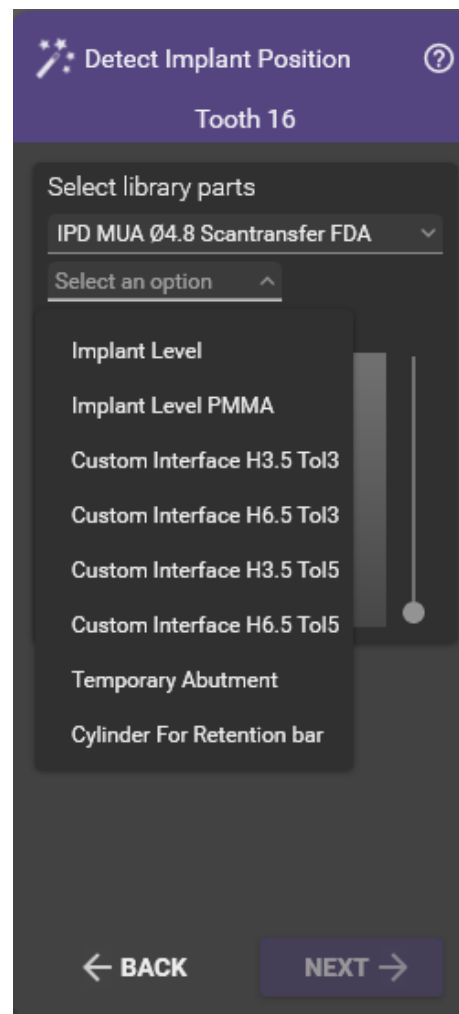
Scan
Transfer



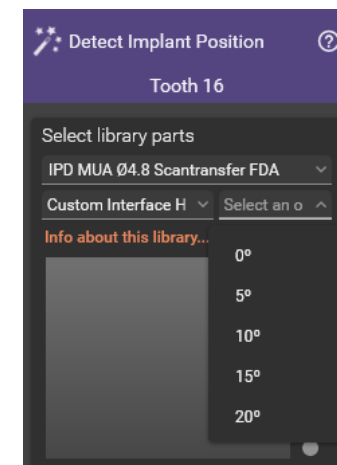
Scan Transfer Library selection

Each of the supported options will be shown as follows:

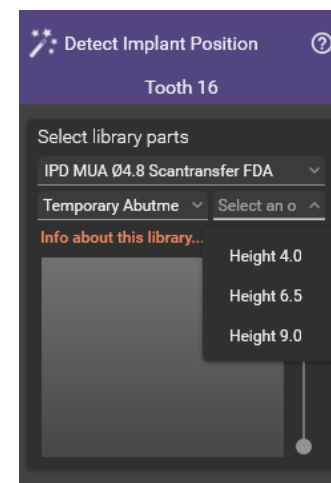
- Implant level** (At MUA level without abutment/ASC supported)
- Implant level PMMA** (At MUA level without abutment for temporary frameworks/ASC supported)
- Custom Interface** (Non-ENG, H6.5-H3.5, Tol3-Tol5/ASC supported)
- Temporary abutment** (Supporting different heights H9-H6.5-H4)
- Cylinder for retention bar** (when designing splinting guides)



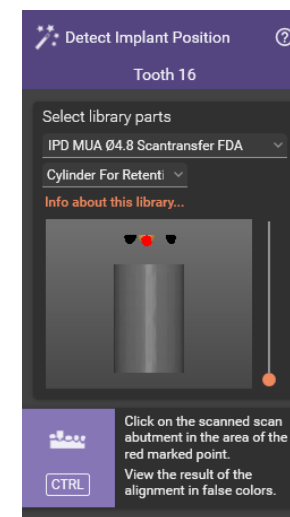
a / b



c



d



e

Scan
Transfer

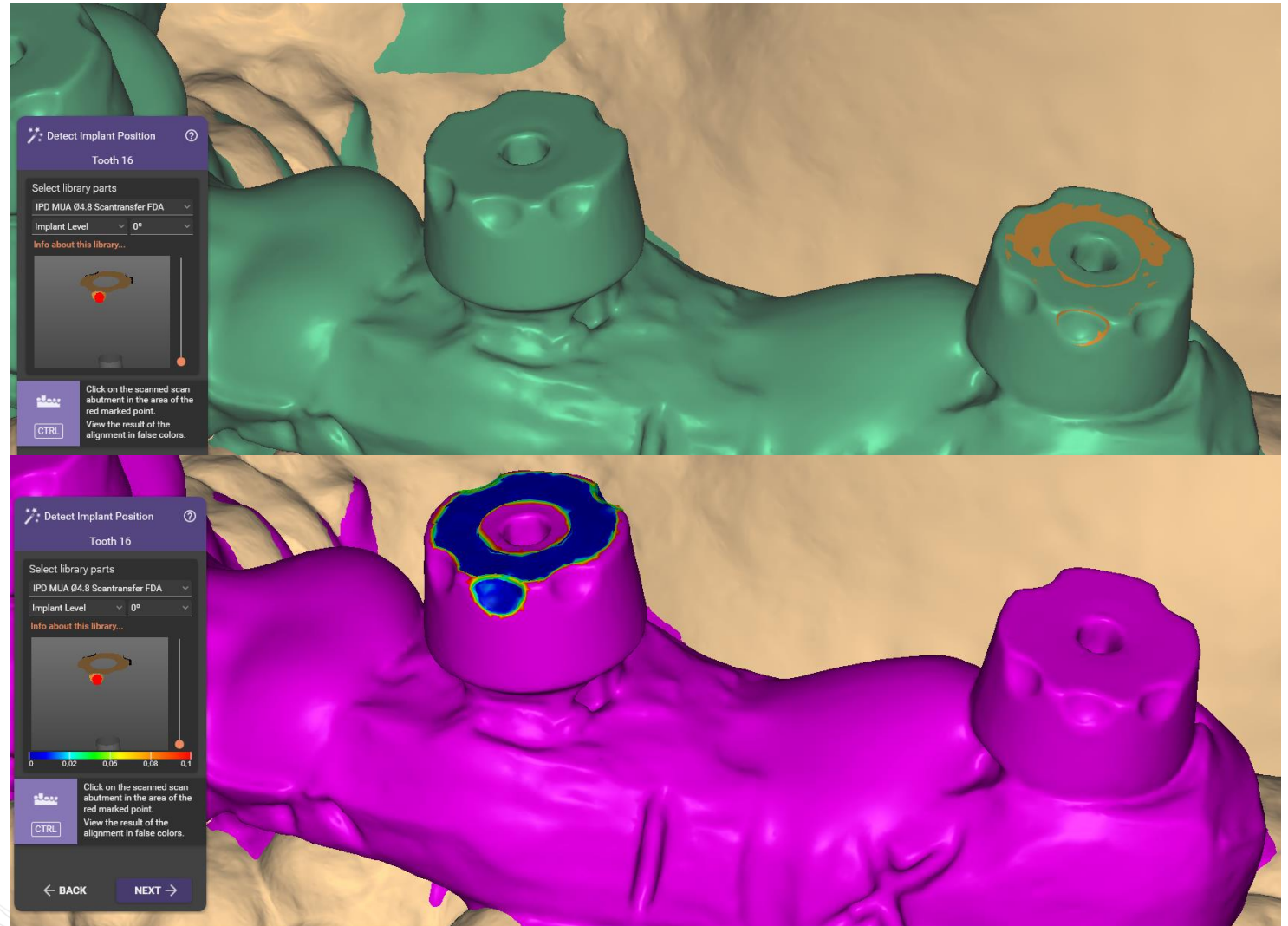


Library alignment

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





Dental Group