



Dental Group

exocad FDA Library

USER GUIDE





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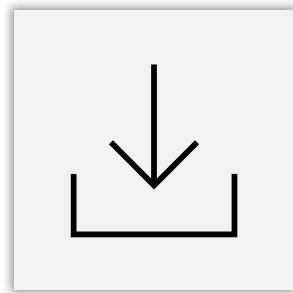
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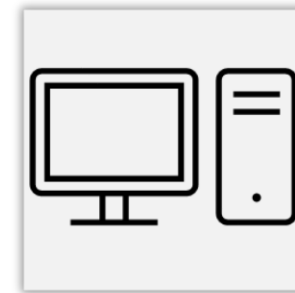




Interactive
show



Install



Library types and use

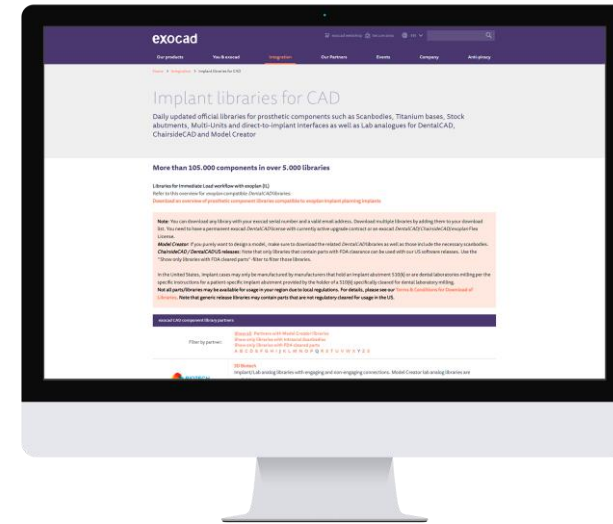




Two different ways to install the library



DentalCADApp
Installation



Exocad
Website





Detect Implant Position ?

Tooth 21

Select library parts

All Entries **195** item(s) [Download more libraries...](#)

- exocad - Demo Case Implant Library
- exocad - Demo Post and Core
- IPD Angulated Simulator
- (IPD-B.CrCo/ANG) NEO GM (CAST)
- (IPD-B.CrCo) NEO GM (CAST)
- (IPD-B.CrCo/ANG) NEO GM (SINT)
- (IPD-B.CrCo) NEO GM (SINT)
- (IPD-C.Interface/ANG) NB BRANRMARK Ø3.5 ToI3

← BACK NEXT →

In the “Detect Implant Position” design step, click here to download and install the library from exocad server.

exocad Library Manager v3.2-8740/64

IMPLANT PROTESIS DENTAL 2004, S.L. - IPD 2004
Prosthetic components libraries for usage with titanium bases and direct connections.

Package: IPD IL FDA All exocad libraries
Updated: 15-12-2023, 38 libraries included

Providing solutions

[+ Add to download list](#) Close ^



Back to installation



You can also download the library directly from exocad website and install the unzipped files in the correct path:

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

The screenshot shows the exocad website interface. The top navigation bar includes the exocad logo, a shopping cart icon, 'exocad webshop', a lock icon for 'Secure area', a globe icon for 'EN', and a search icon. Below the navigation bar, there are several menu items: 'Our products', 'You & exocad', 'Integration', 'Our Partners', 'Events', 'Company', and 'Anti-piracy'. The 'Integration' menu is open, displaying a list of options: 'Overview' (Smooth integration), 'Implant libraries for CAD' (105.000+ components, updated daily), 'Implant libraries for the plan' (14.000+ implants, updated daily), 'Denture tooth libraries' (5000+ denture tooth shapes, updated daily), 'Dental material integration' (200+ block, disc and print materials), 'Scanner integration' (Leading dental scanners), '3D-Printer integration' (Leading dental 3D printers), 'CAM integration' (exocam solutions), and 'Virtual articulator integration' (19 articulators available). The 'Implant libraries for CAD' option is circled in blue. The background of the website features a large graphic of a dental arch with the text 'DentalCAD® 3.2 Elefsina' and 'FOR MORE AUTOMATIC UPGRADE NOW'. A large orange circle with the text 'CLICK HERE' is visible in the bottom right corner of the website.



Scan Body types

Scan Abutment



Scan Transfer





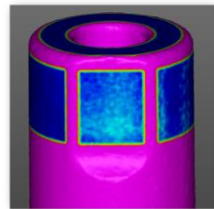
Back to Scan Body types

Scan Abutment Libraries

Ti-Base level



Implant Level



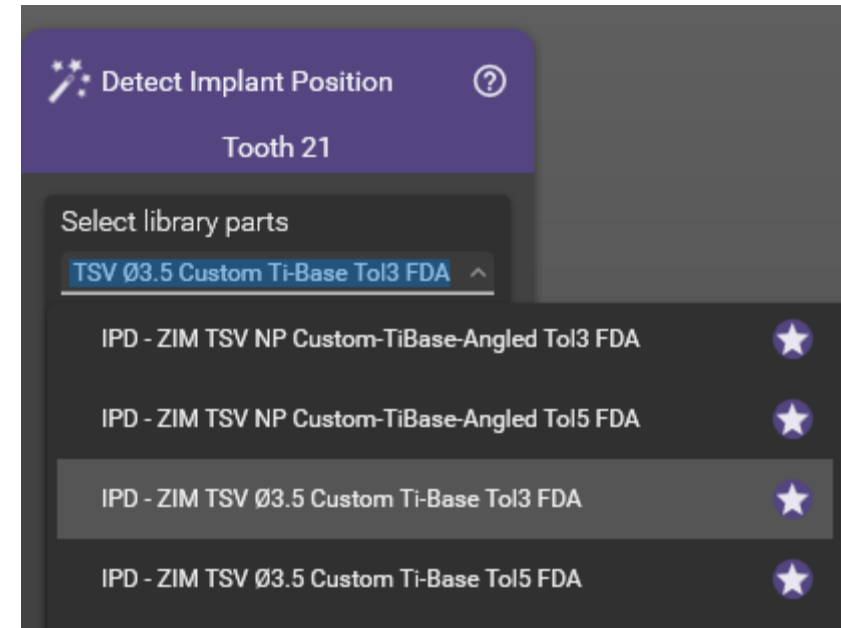
CAD alignment, ASC & design





Library selection

- **E.g. IPD – ZIM TSV Ø3.5 Custom-TiBase Tol3 FDA:**
Ti-base level libraries supporting a 30 microns cement gap (usually recommended for single crowns)
- **E.g. IPD – ZIM TSV Ø3.5 Custom-TiBase Tol5 FDA:**
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

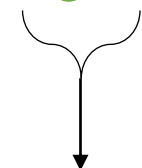
All IPD library files are using Scan abutment reference code to drive the whole selection.

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

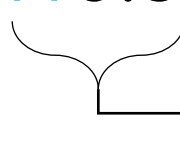
IPD/FA – SN – 0* (H6.5)

Brand

Platform



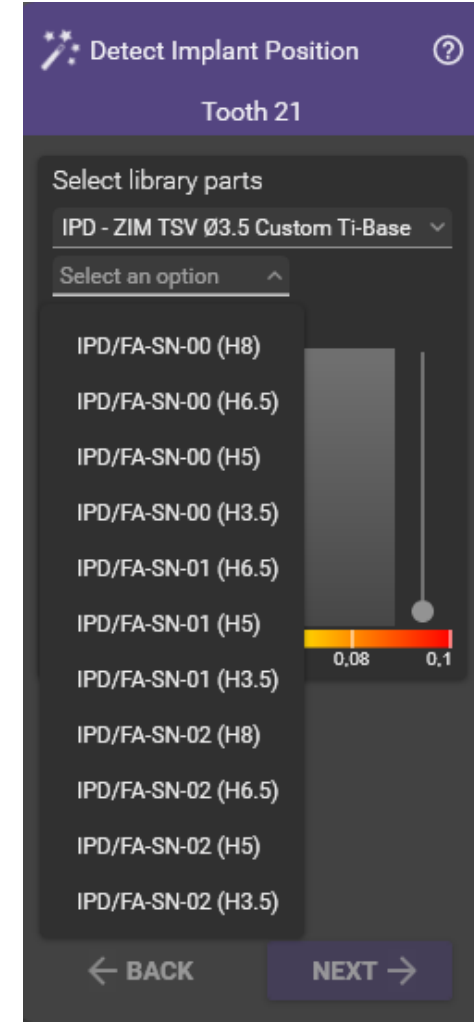
Eng/Non Eng



Ti-Base wall Height

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

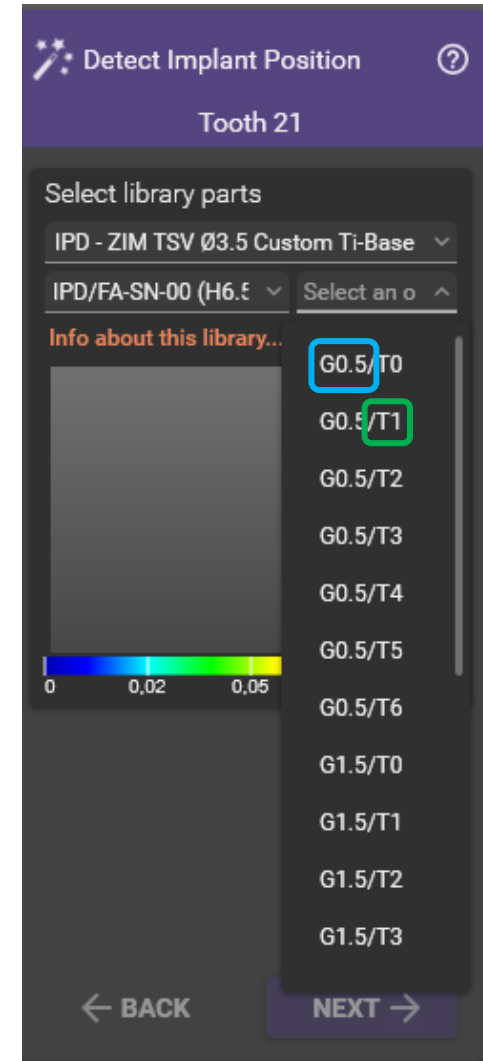
ENG: 8 – 6,5 – 5 – 3,5
 NON-ENG: 6,5* – 5* – 3,5
 *Avialibility to be confirmed





Custom Ti-Base selection

- **Gingival height:** Ti-base level libraries supports different gingival heights, represented by the coding “G0.5” e.g. (different heights available 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)

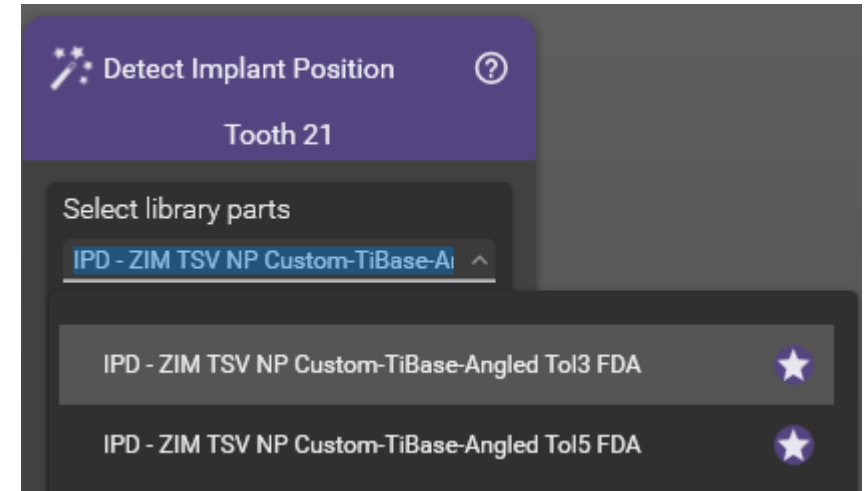


Custom
Ti-Base



ASC Library selection

- **E.g. IPD – ZIM TSV \varnothing 3.5 Custom-TiBase-Angled Tol3 FDA:**
Angulated Ti-base level libraries supporting a 30 microns cement gap (usually recommended for single crowns)
- **E.g. IPD – ZIM TSV \varnothing 3.5 Custom-TiBase-Angled Tol5 FDA:**
Angulated Ti-base level libraries supporting a 50 microns cement gap (usually recommended for multiple frameworks)



Custom
Ti-Base

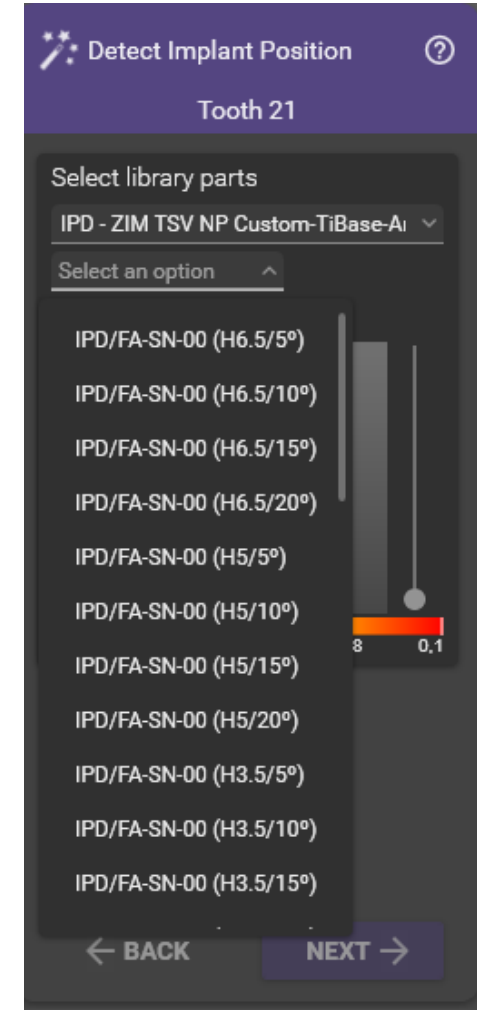
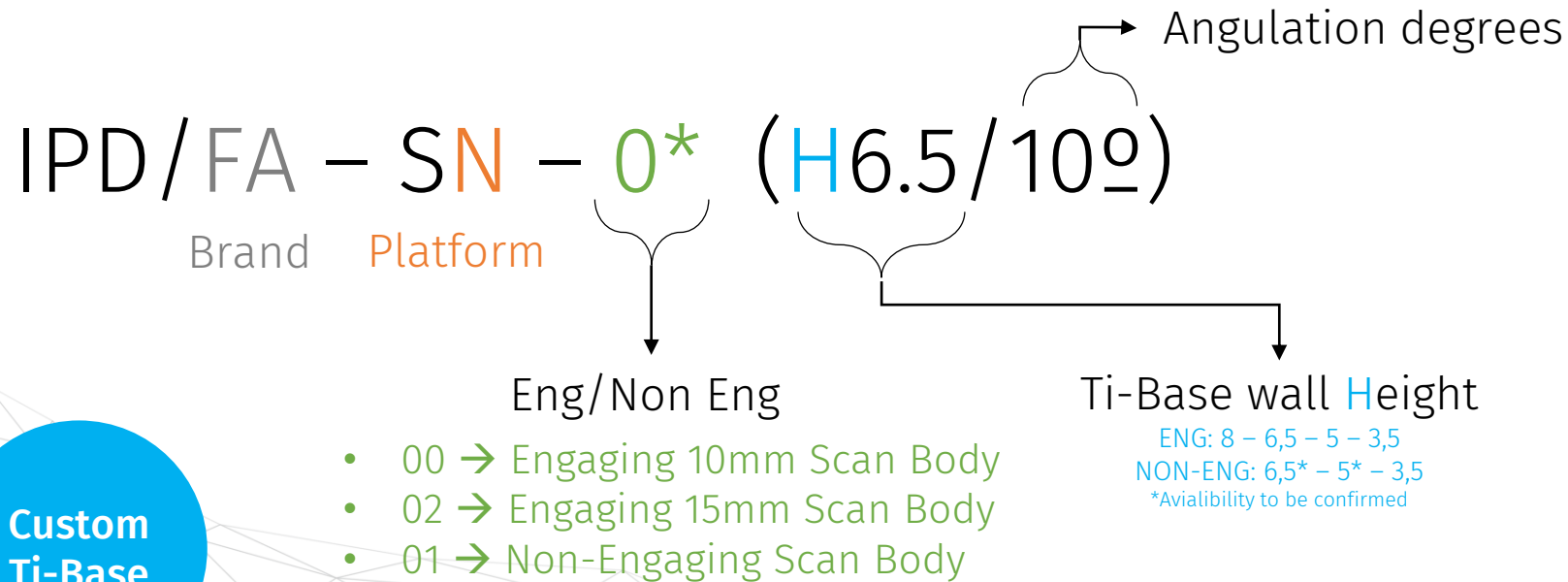


ASC Custom Ti-Base selection

Ti-Base Level

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

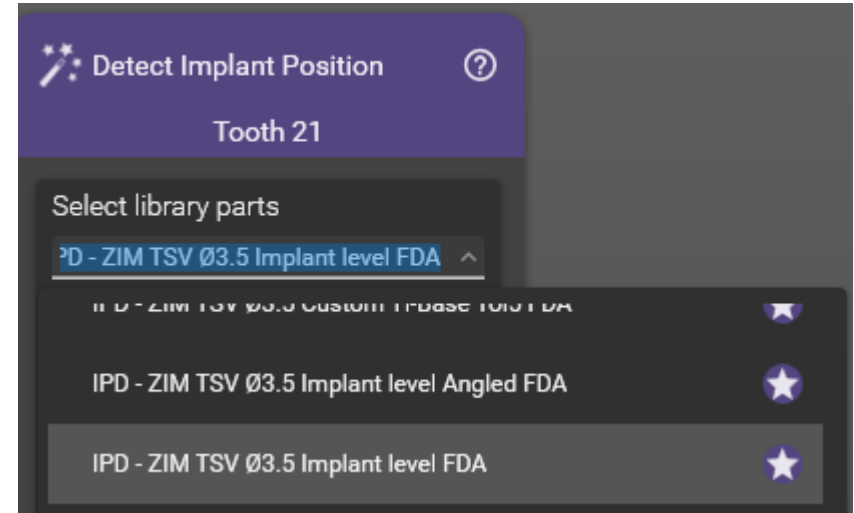




Back to libraries

Library selection

- **E.g. IPD – ZIM TSV Ø3.5 Implant level FDA:**
Implant level libraries for unitary or multiple frameworks.



Implant
Level



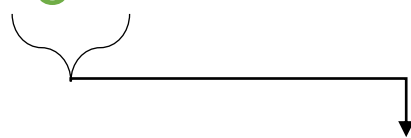
Implant level selection

- Implant Level**

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

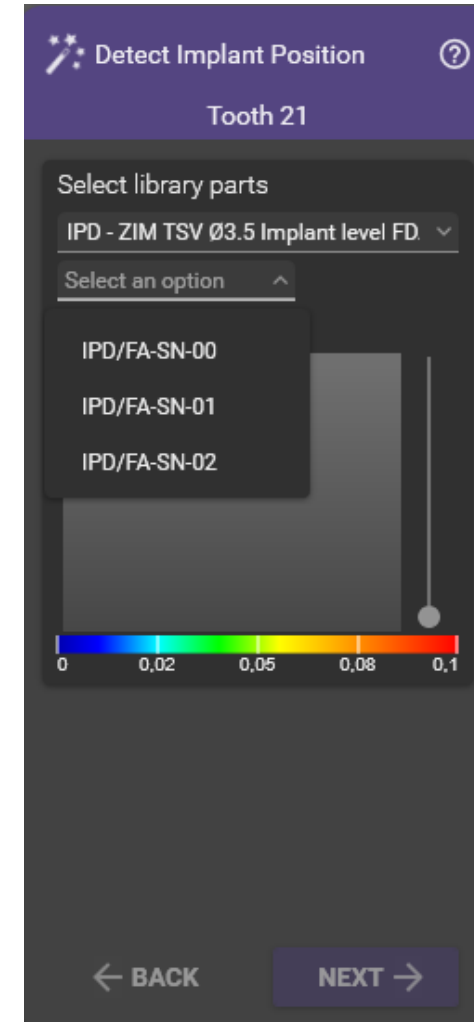
IPD/FA – SN – 0*

Brand Platform



Eng/Non Eng

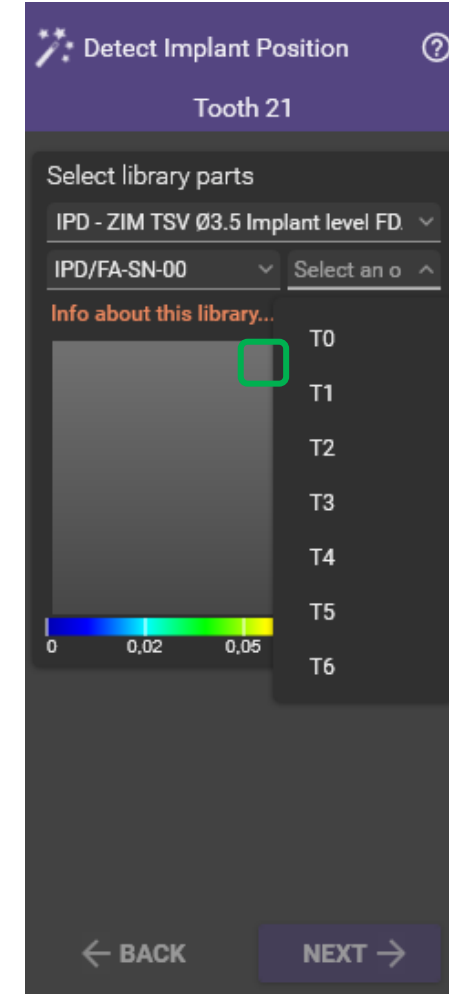
- 00 → Engaging 10mm Scan Body
- 02 → Engaging 15mm Scan Body
- 01 → Non-Engaging Scan Body





Implant level 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)

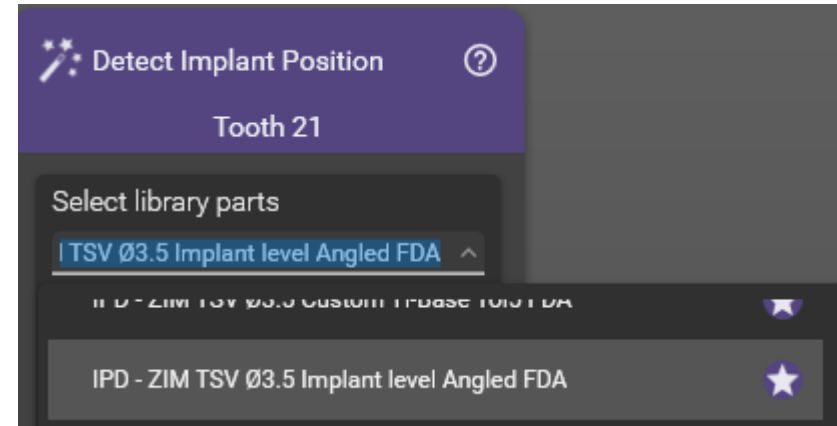


Implant Level



ASC Library selection

- **E.g. IPD – ZIM TSV Ø3.5 Implant level Angled FDA:**
Implant level libraries for unitary or multiple frameworks with angulated screw channel.



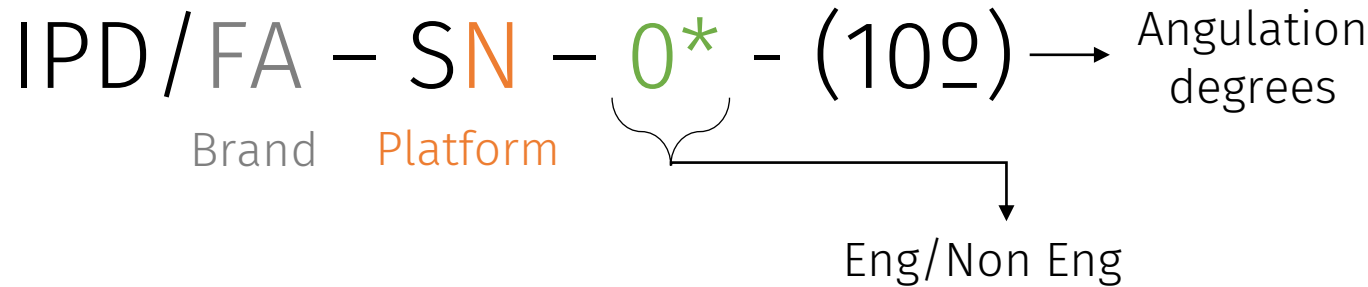
Implant
Level



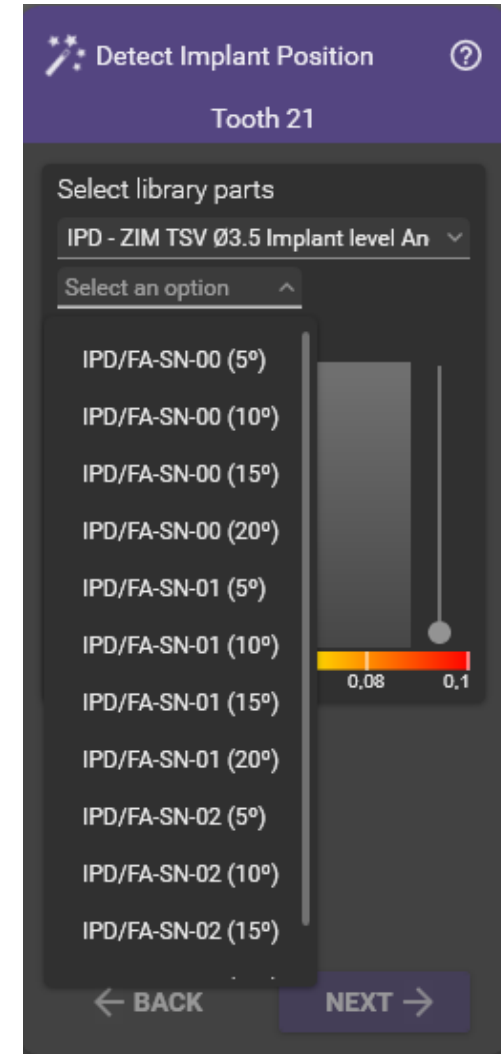
ASC Implant level selection

- ASC Implant Level**

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



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

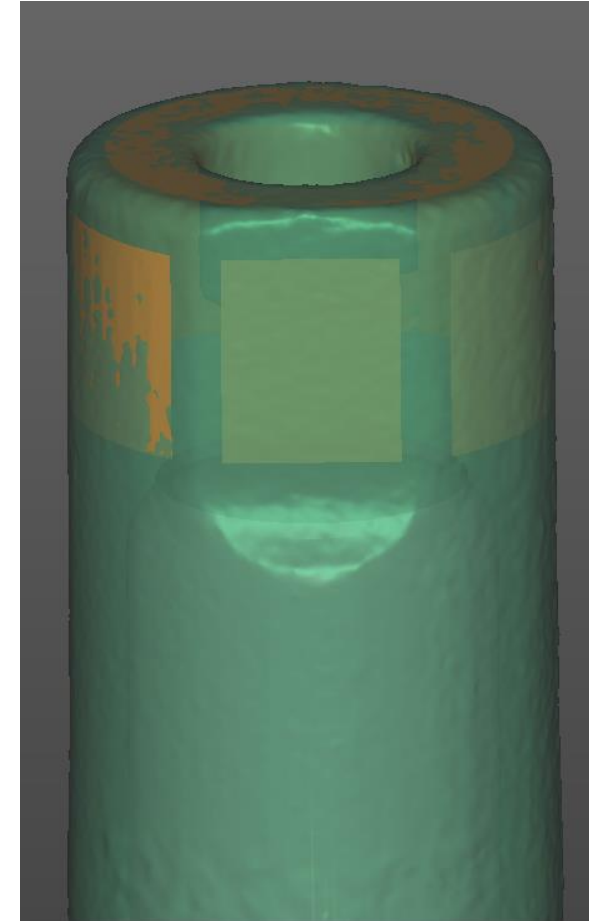
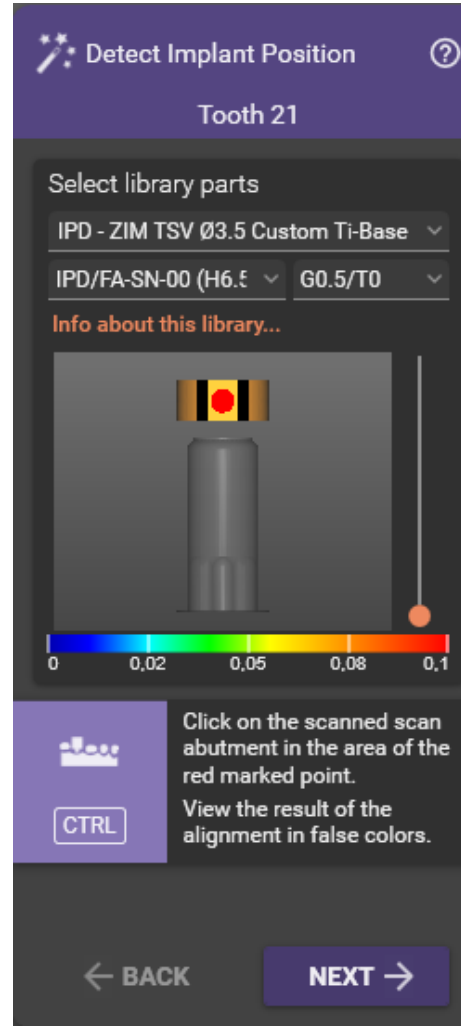




Back to libraries

Library alignment

Select the relevant library and align following exocad instructions.





Library alignment

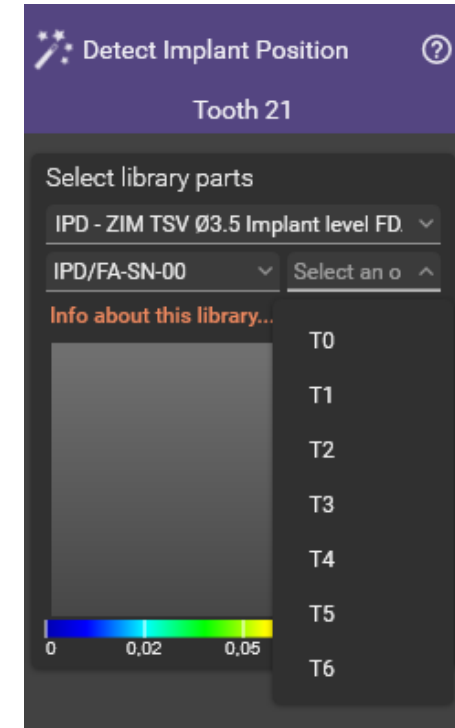
- **Scan Abutment Tolerance tool**

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.



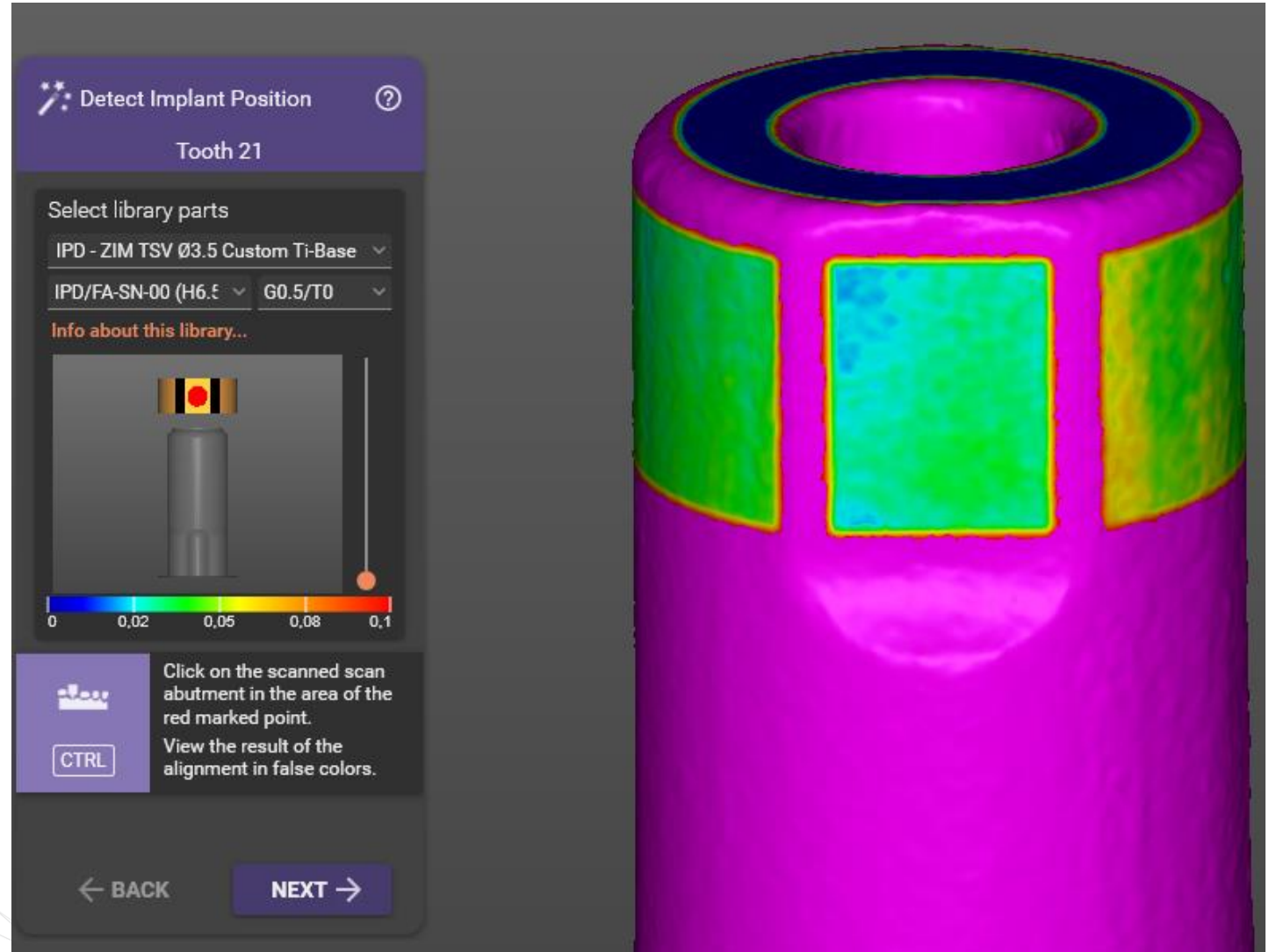
- T0 - Std STL (= medida física)
- T1 - Std STL + 10 micras
- T2 - Std STL + 20 micras
- T3 - Std STL + 30 micras
- T4 - Std STL + 40 micras
- T5 - Std STL + 50 micras
- T6 - Std STL + 60 micras



Library alignment

Alignment using "T0" Tolerance

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

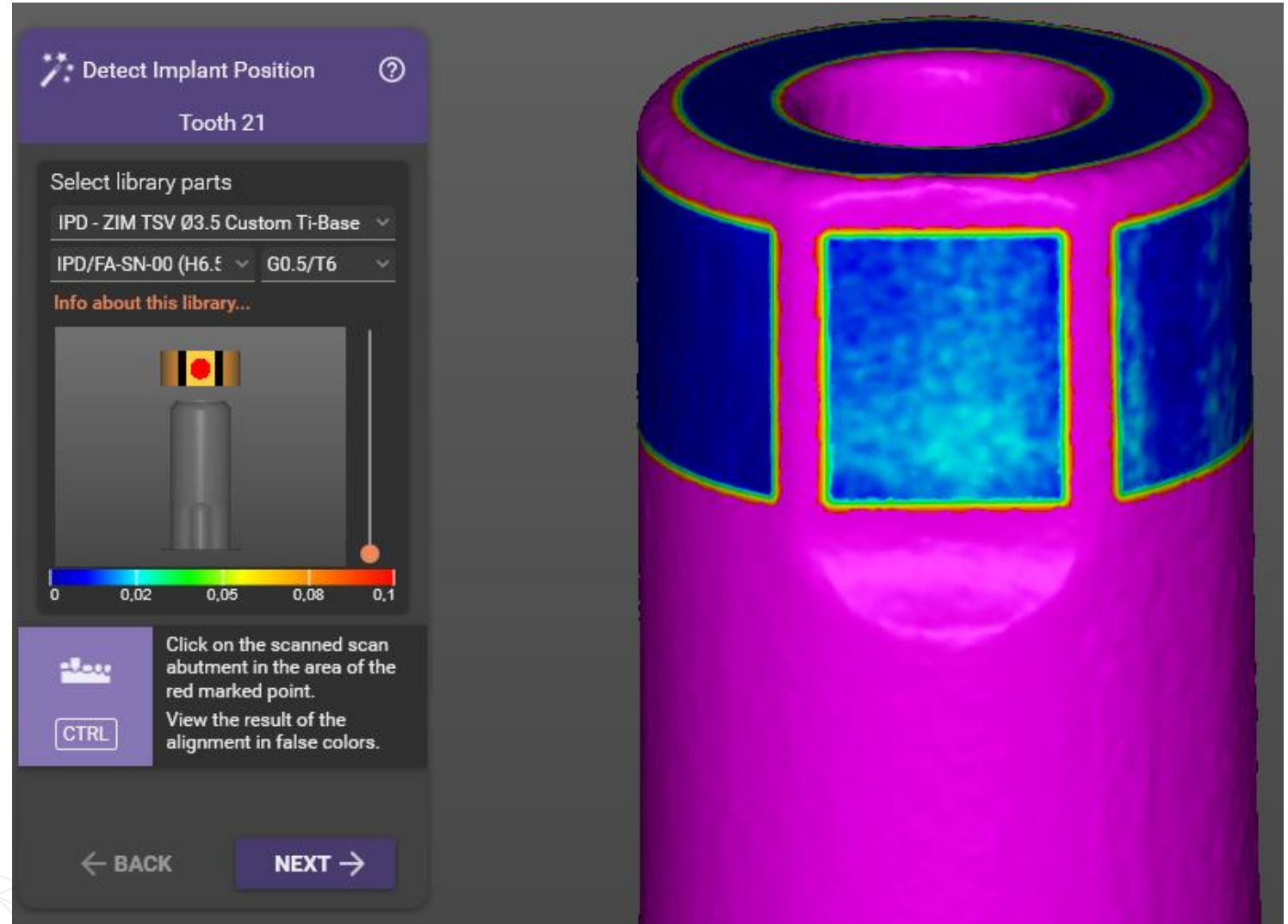




Library alignment

Alignment using "T6" Tolerance

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

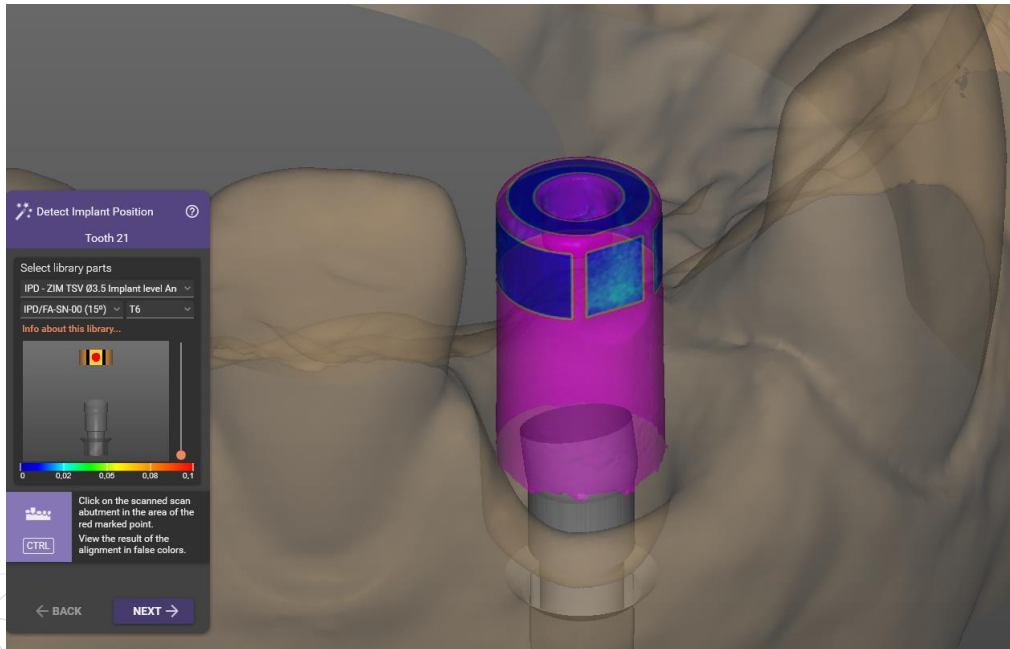




ASC Guidance

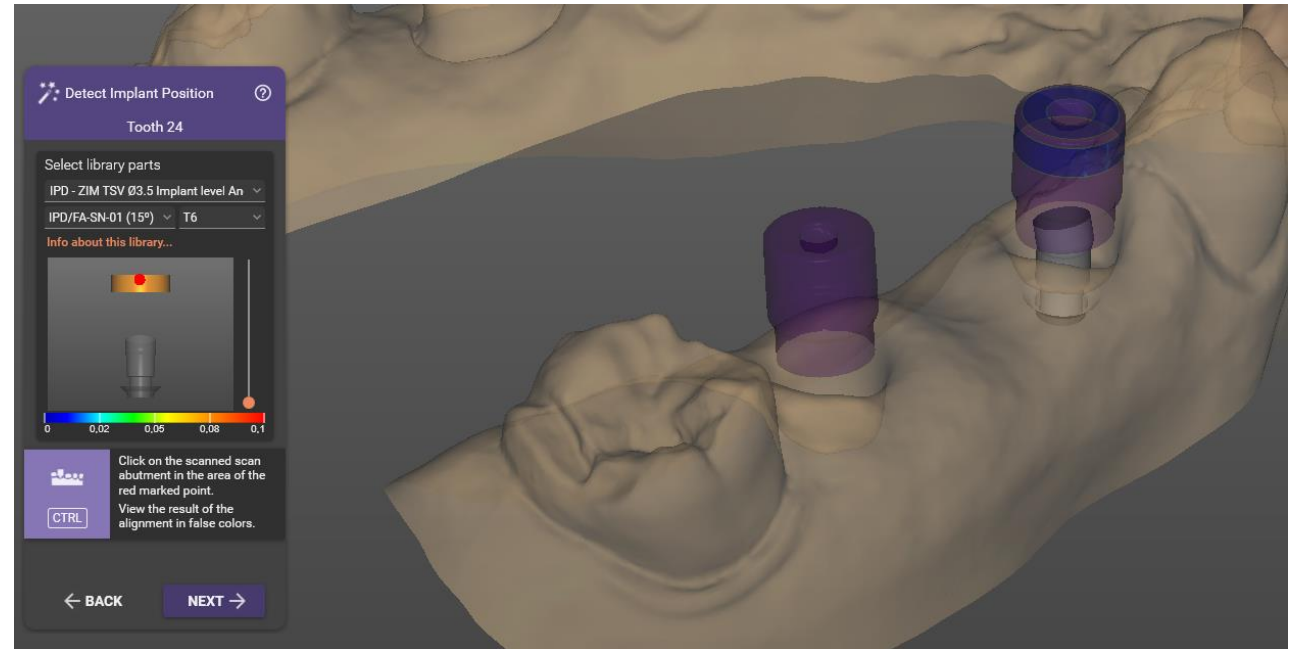
- ASC Design – Guiding the screw channel**

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.

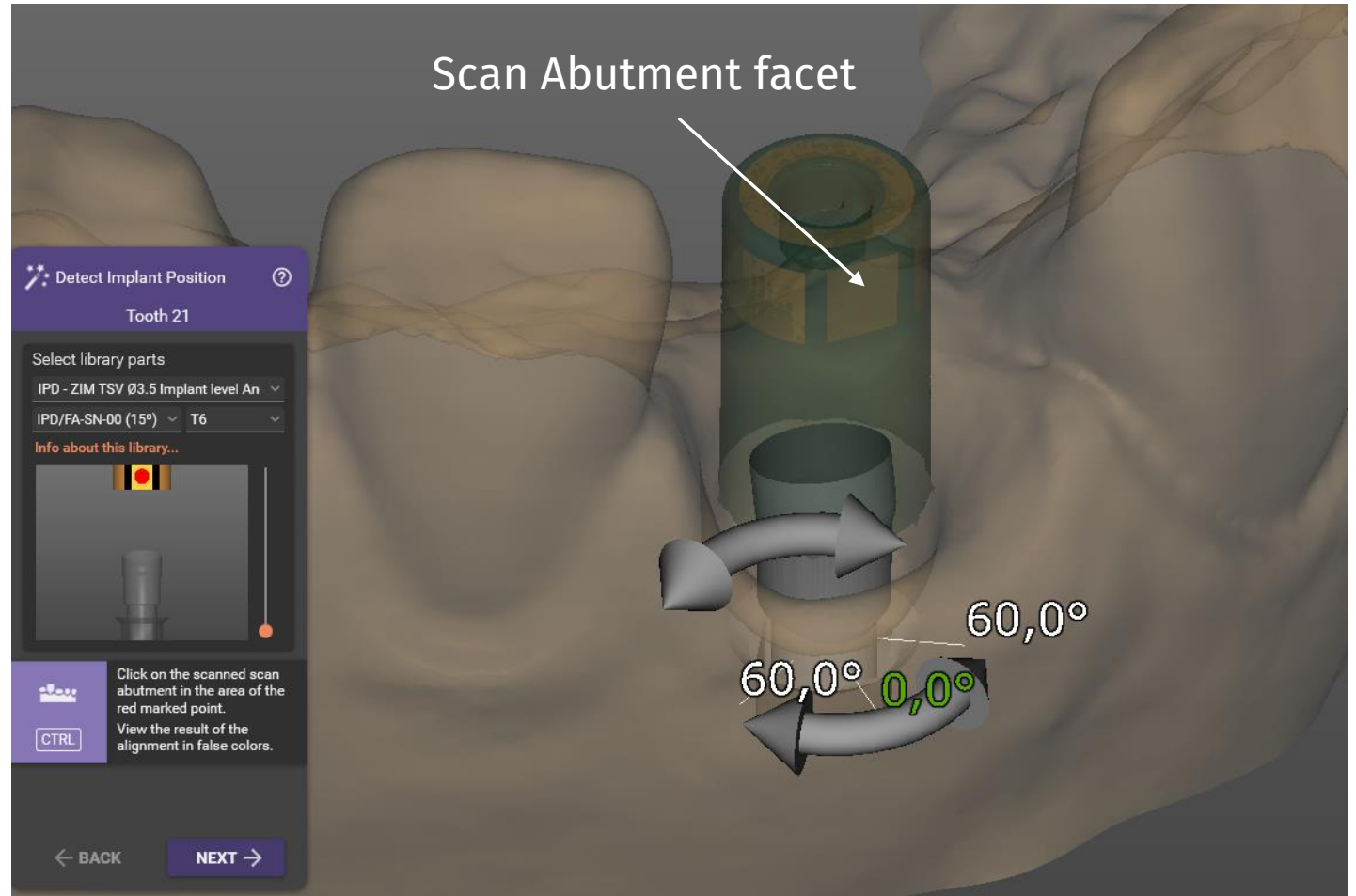


ASC Guidance

- 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.

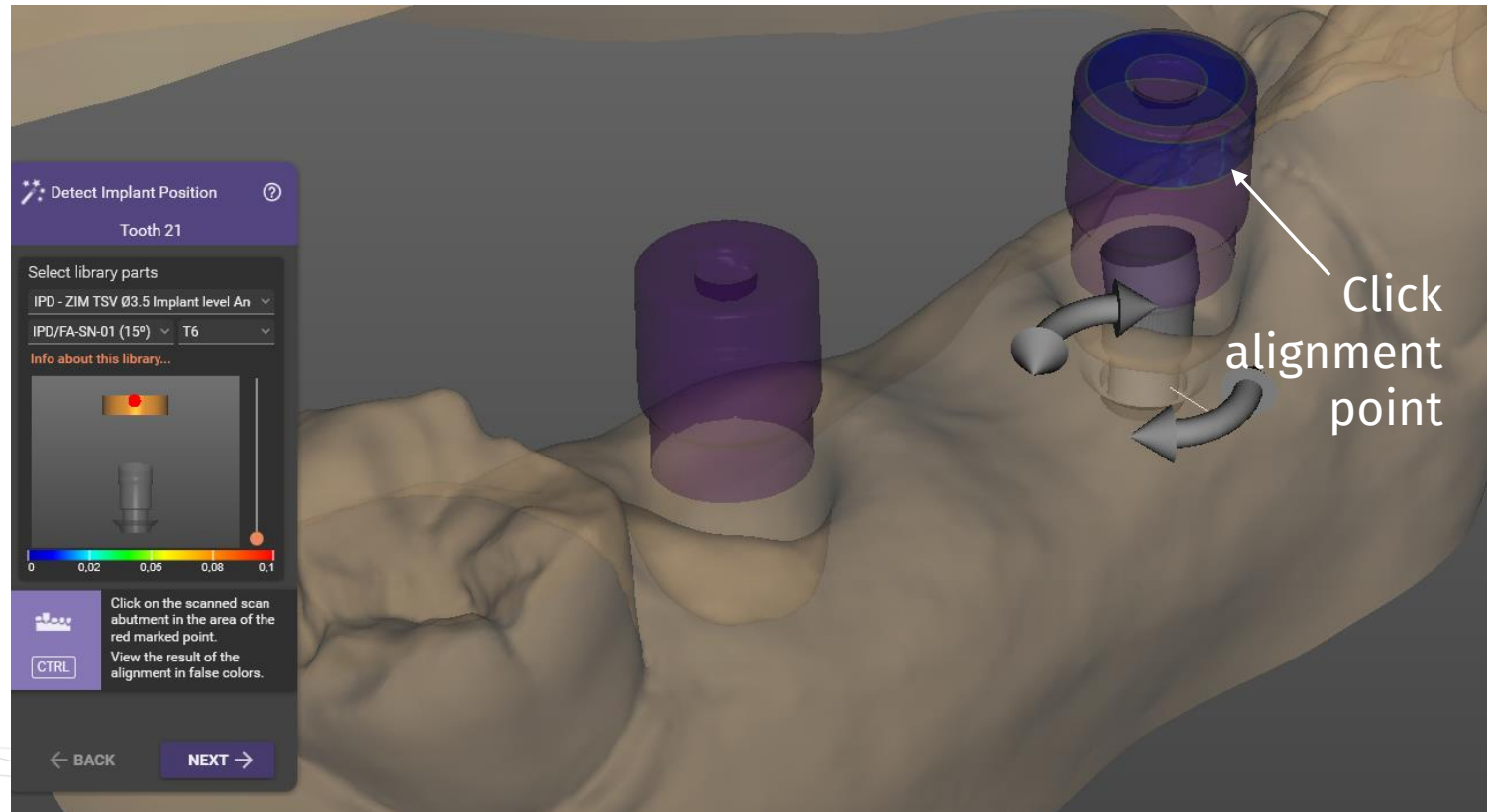




ASC Guidance

- 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



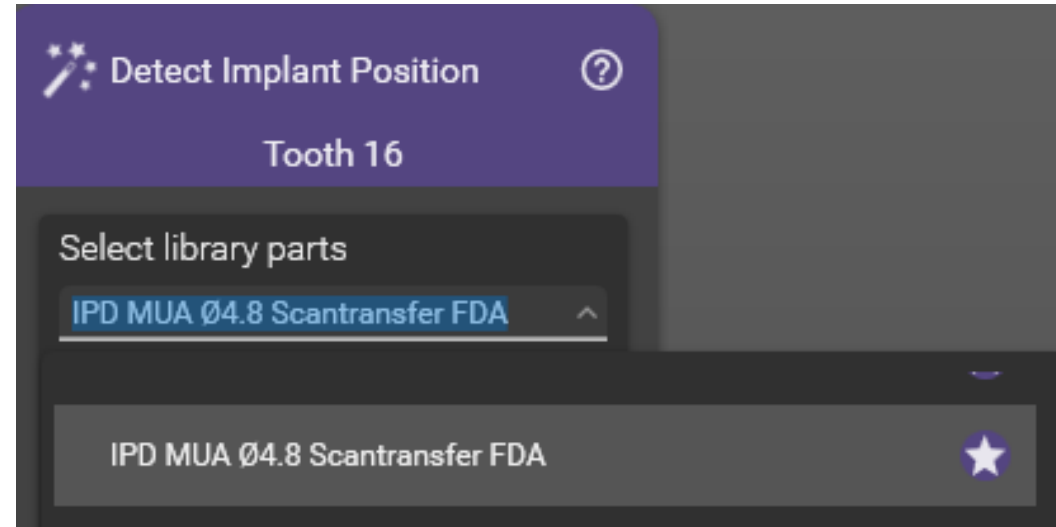


Back to Scan Body types



Scan Transfer Library

- **IPD MUA Ø4.8 Scantransfer FDA:**
Dedicated Scan Transfer Libraries



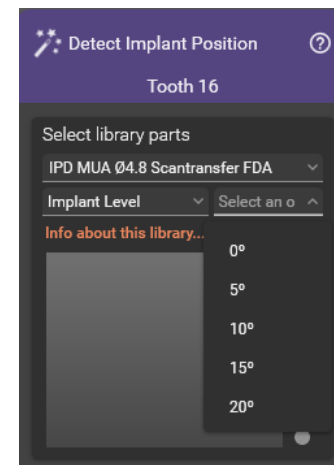
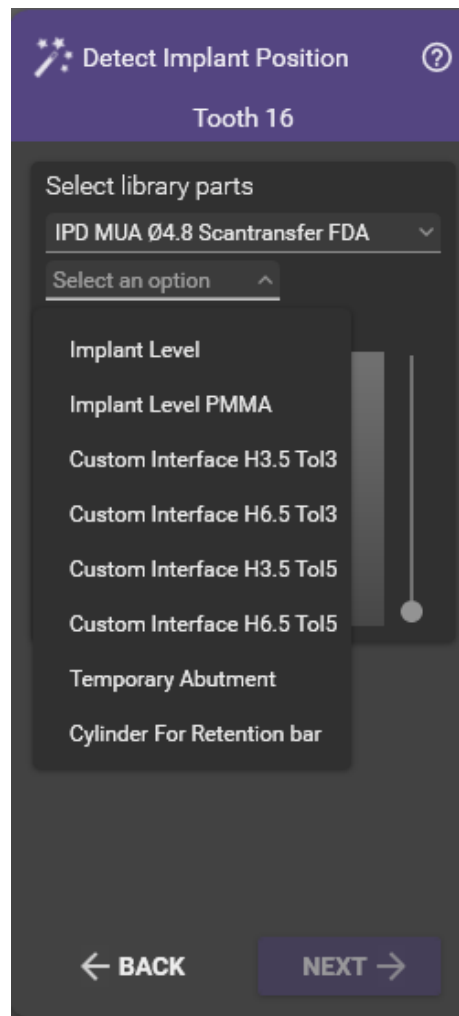
Scan
Transfer



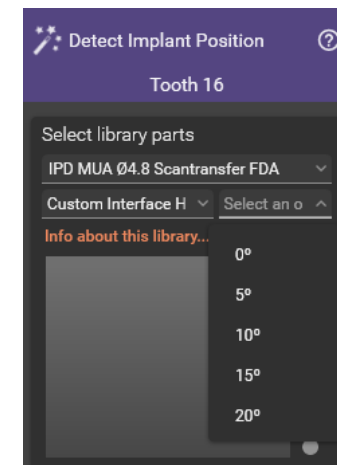
Scan Transfer Library selection

Each of the supported options will be shown as follows:

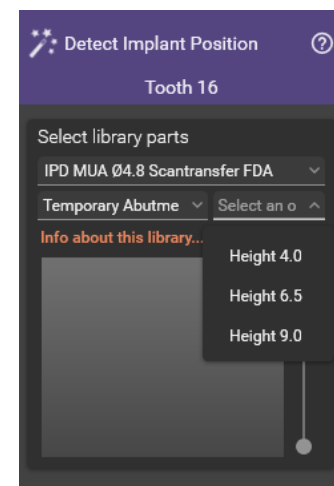
- a. **Implant level** (At MUA level without abutment/ASC supported)
- b. **Implant level PMMA** (At MUA level without abutment for temporary frameworks/ASC supported)
- c. **Custom Interface** (Non-ENG, H6.5-H3.5, Tol3-Tol5/ASC supported)
- d. **Temporary abutment** (Supporting different heights H9-H6.5-H4)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



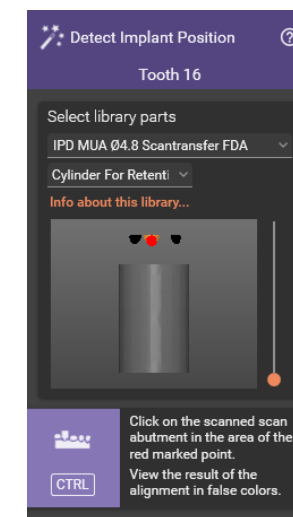
a / b



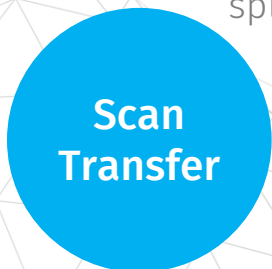
c



d



e

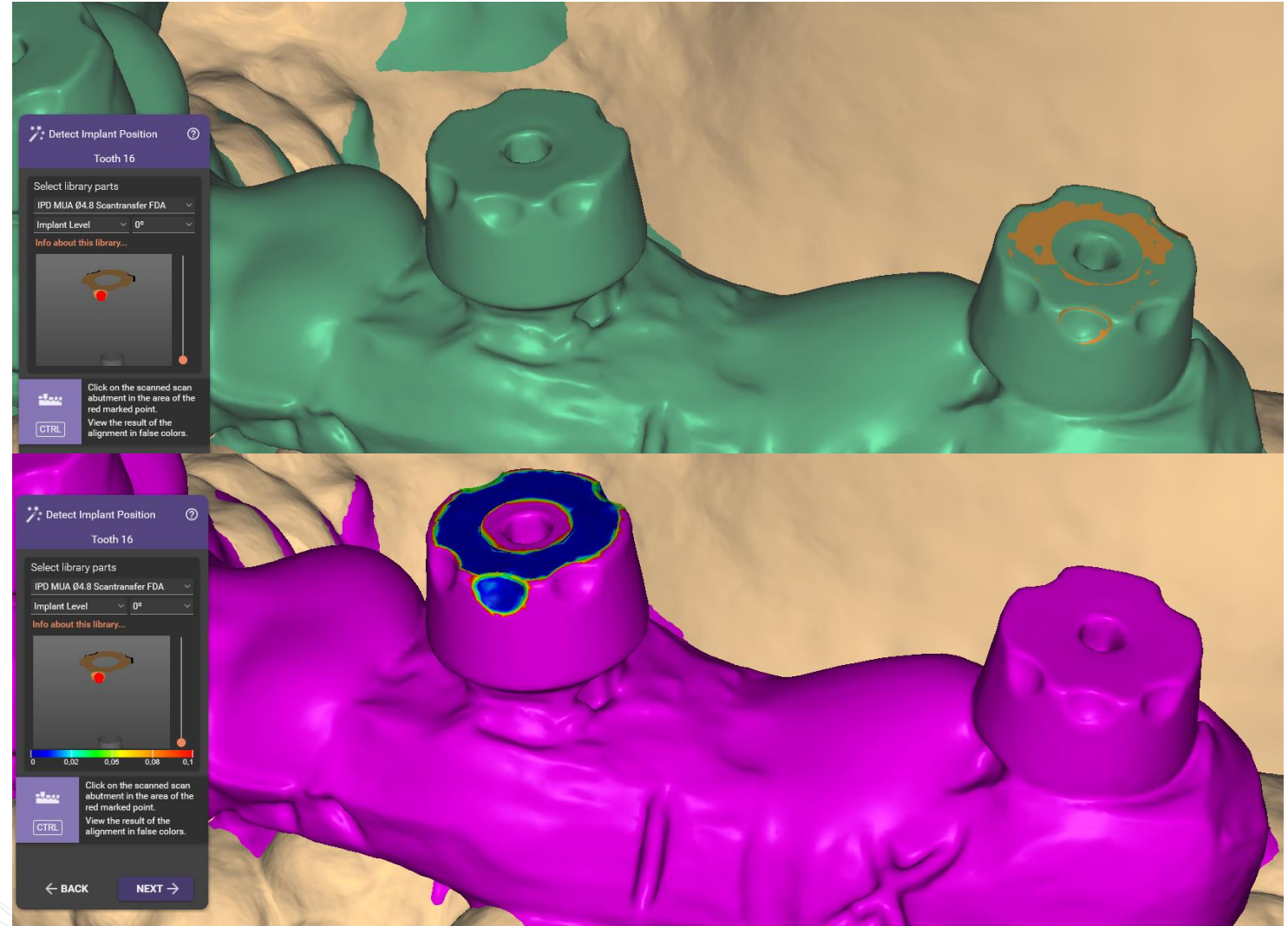




Library alignment

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.





Dental Group

