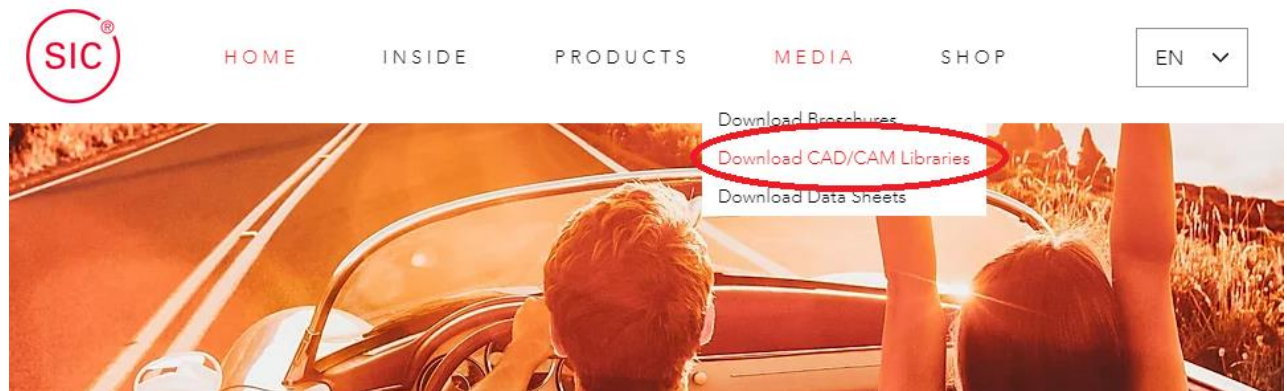


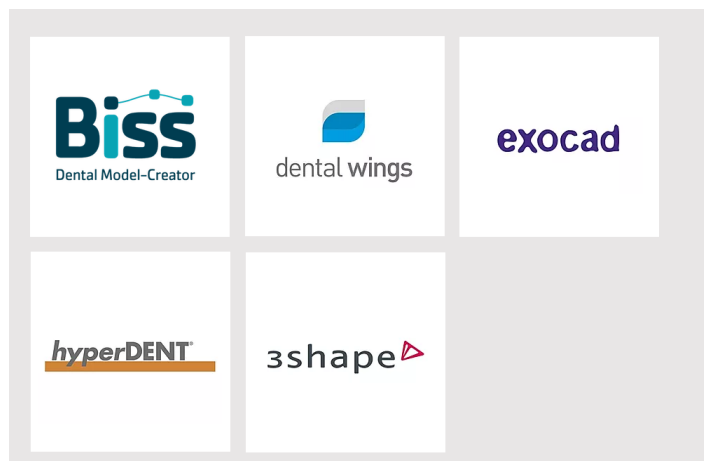
In this document, you find a short overview over the current CAD/CAM products and a guide on installing the SIC invent CAD/CAM-Libraries for exocad.

The respective libraries are available for download on the SIC invent Homepage under the “Media” tab:

www.sic-invent.com



There you will find all current CAD/CAM-Libraries divided into the respective software providers.





Basically, the libraries for Exocad, 3Shape and Dental Wings are divided into the following categories:

- Bonding Bases – Hexagonal (for “SICace”, “SICmax” and “SICtapered” implants)
- Bonding Bases – SICvantage (for “SICvantage max” and “SICvantage tapered” implants)
- Multi-Unit (for all SIC Multi Unit Crown Bases)
- Preface (for Milling Blanks of all interfaces)

Hints:

Optimed scanner: The libraries need to be created by Optimed.

Bego, Zirkon Zahn, Schütz CAD, Arman Girrbach are using the Exocad-Software, some with their own adjustments.

If you have any questions, please contact the manufacturer of the respective software or your respective SIC invent distributor.



Content

1	CAD/CAM Product Overview	4
1.1	Hexagonal System.....	4
1.2	SICvantage System.....	6
1.3	Multi-Unit-Systems.....	8
2	Contact to the Customer Service	10
3	Selection of the correct library.....	11
4	Installation of the libraries.....	12
4.1	Installation in Exocad - DentalCAD.....	12
4.1.1	3D Printer Presets	14
4.1.2	Structure of the Exocad library.....	14
5	FAQ	16

1 CAD/CAM Product Overview







Please always inform yourself in advance about which implant needs to be treated. Depending on the implant and the required application, a different library has to be used.

1.1 Hexagonal System



(Compatible with “SICace“, “SICmax“ and “SICtapered“ implants)

SIC invent offers the following CAD/CAM products for the hexagonal system:



SIC Bonding Base CAD/CAM, straight (incl. SIC Standard Fixation Screw)

Prosthetic connection	Hex 2.3 mm	Cone 2.3 mm for bridgework
3.3 mm 		
	936190	936191
4.2 mm 		
	936196	936197



SIC Bonding Base CAD/CAM, 15° angle (incl. SIC Standard Fixation Screw, short)

Prosthetic connection	
3.3 mm 	936192
4.2 mm 	936198

SIC Bonding Base CAD/CAM straight, CEREC (incl. SIC Standard Fixation Screw)

Prosthetic connection	GH 0.3 mm	GH 3.0 mm
3.3 mm 	936188	936228
4.2 mm 	936189	936229

Milling-Blank CAD/CAM, M-Line (incl. SIC Standard Fixation Screw)

Prosthetic connection	
3.3 mm 	936226
4.2 mm 	936227

Precondition: MEDENTIKA® PreFace®
Abutment holder

The Scanbody for the hexagonal system is universal and can be used for both hexagonal interface sizes.

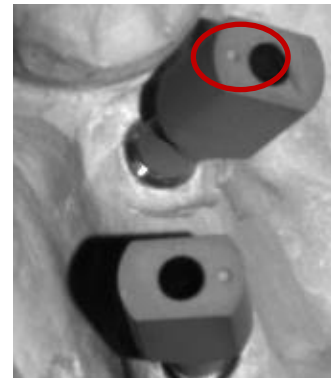
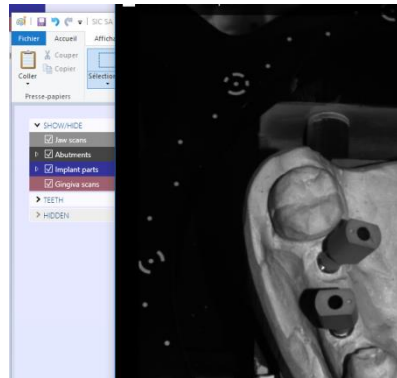
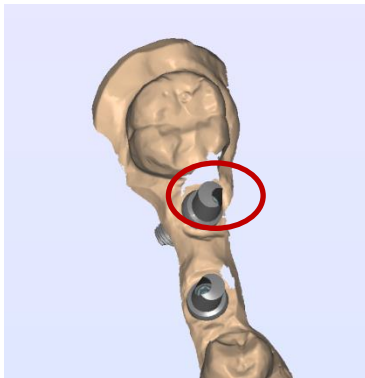


SIC Scan Adapter
(incl. SIC Standard
Fixation Screw)
for digital modelling of
CAD/CAM
Customized Milled
Abutments

936237

Precondition: Open CAD/CAM system
SimedaCAD, 3Shape, ExoCAD (Fraunhofer),
DentalWings or LaserDenta with output of
unencrypted STL data
Manufacturing of Abutments:
simeda medical, Luxemburg

With **angulated Bonding Bases**, the angulation is aligned in the direction of the point on the scanbody!








Installation Guide









for CAD/CAM-Libraries










1.2 SICvantage System

(Compatible with “SICvantage max” and “SICvantage tapered” implants)

SIC invent offers the following CAD/CAM products for the SICvantage system:

SICvantage Bonding Base CAD/CAM, straight			SICvantage Bonding Base CAD/CAM, straight for bridgework,		
	Prosthetic connection	GH 1.0 mm	GH 0.35 mm		
	2.2 mm 	950741	950742		
	2.5 mm 	950761	950762		
	2.9 mm 	950771	950772		
					

SICvantage Bonding Base CAD/CAM, 15° angle			SICvantage Bonding Base CAD/CAM, straight, CEREC			
	Prosthetic connection	GH 1.0 mm		Prosthetic connection	GH 1.0 mm	GH 3.0 mm
	2.2 mm 	950743		2.2 mm 	950744	-
	2.5 mm 	950763		2.5 mm 	950764	950765
	2.9 mm 	950773		2.9 mm 	950774	950775

SICvantage Milling Blanks CAD/CAM, M-Line			
 incl. SICvantage Fixation Screw M1.4 and Impression Cap		  incl. SIC Standard Fixation Screw M1.6 and Impression Cap	
Prosthetic connection	2.2 mm 	2.5 mm 	2.9 mm 
<div>    </div>			
	950781	950782	950783



Precondition: MEDENTIKA® PreFace® Abutment-Holder

For each the interface sizes (grey, blue and red) you need a different Scanbody.

Please make sure that you select the correct size, as the interfaces are not compatible with each other!

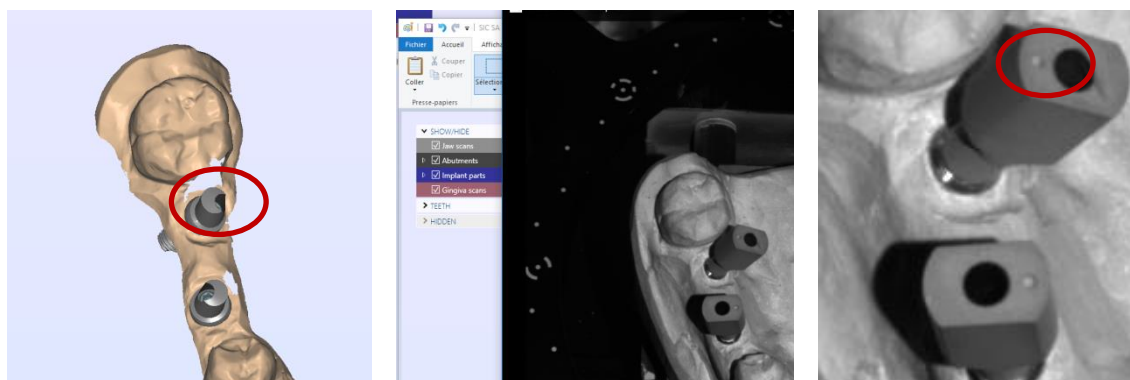
SICvantage Scan Adapter

for digital modelling of CAD/CAM Customized Milled Abutments

Prosthetic connection	2.2 mm 	2.5 mm 	2.9 mm 
			
	950801	950802	950803

Precondition: Open CAD/CAM system. SimedaCAD, 3Shape, ExoCAD (Fraunhofer), DentalWings or LaserDenta with output of unencrypted STL data. Manufacturing of Abutments: simeda medical, Luxembourg

With **angulated Bonding Bases**, the angulation is aligned in the direction of the point on the scanbody!



Installation Guide



for CAD/CAM-Libraries

1.3 Multi-Unit-Systems

For cases with Multi-Unit abutments and their respective libraries, you need to work with the SIC Crown Bases which need to be mounted on top of the abutments.




Safe on Four:

Crown Base "Safe on Four" (incl. SIC Fixation Screw "Safe on Four")




Total height [mm]	9.0	6.2
Material	Titanium Grade 5	Titanium Grade 5
		
	Titanium	CAD/CAM
	936270	936278

Associated Abutments:




Bar and Bridge Abutment "Safe on Four" (incl. SIC Fixation Post "Safe on Four")

	Prosthetic connection	GH 1.5 mm	GH 3.0 mm
	3.3 mm 	936253	936254
	4.2 mm 	936255	936256

Standard Abutment "Safe on Four", 16° angle (incl. SIC Fixation Screw, short)

	Prosthetic connection	GH 1.5 mm	GH 3.0 mm
	3.3 mm 	936259	936261
	4.2 mm 	936263	936262

Standard Abutment "Safe on Four", 30° angle (incl. SIC Fixation Screw, short)

	Prosthetic connection	GH 1.5 mm	GH 3.0 mm
	3.3 mm 	936260	-
	4.2 mm 	936264	936265

Mini Multi-Unit:



SIC Mini Multi-Unit
Crown Base,
Titanium (incl. SIC
Fixation Screw for
Mini Multi-Unit)

936289



SIC Mini Multi-Unit Crown
Base, residue-free burn-out
(incl. SIC Fixation Screw
for Mini Multi-Unit)

936290

Associated Abutments

SIC Mini Multi-Unit Abutment System

SIC Mini Multi-Unit Abutment, straight



Prosthetic
connection

GH 1.5 mm

GH 3.0 mm

3.3 mm 

936285

936286

4.2 mm 

936287

936288

For each system you need a different scanbody.



SIC Scan Adapter for
SIC "Safe on Four"

936271



SIC Scan Adapter for
Mini Multi-Unit

936296



2 Contact to the Customer Service

All items shown in Chapter 1 are available from the Customer Service of SIC invent or your respective distributor.

For Germany:

Mail: contact.germany@sic-invent.com

Tel.: +49 551 504 294 0

For Switzerland:

Mail: contact.switzerland@sic-invent.com

Tel.: +41 61 260 24 60

For Austria:

Mail: contact.austria@sic-invent.com

Tel.: +43 1 533 70 60

For outside Germany, Switzerland and Austria:

Please look for the distributor responsible for your region at www.sic-invent.com.



3 Selection of the correct library

Hexagonal

SICace | SICmax | SICtapered

blue 3.3

SICace 3.4 and 4.0
SICmax 3.7 and 4.2
SICtapered 3.7 and 4.2

red 4.2

SICace 4.5 and 5.0
SICmax 4.7 and 5.2
SICtapered 4.7 and 5.2

SIC Bonding Bases

blue

Scanbody: 936237

936190
Bonding Base CAD/CAM,
straight

936191
Bonding Base CAD/CAM,
straight, bridges

936192
Bonding Base CAD/CAM,
15°

936188
Bonding Base CAD/CAM,
CEREC

936228
Bonding Base CAD/CAM,
CEREC, GH 3

red

Scanbody: 936237

936196
Bonding Base CAD/CAM,
straight

936197
Bonding Base CAD/CAM,
straight, bridges

936198
Bonding Base CAD/CAM,
15°

936189
Bonding Base CAD/CAM,
CEREC

936229
Bonding Base CAD/CAM,
CEREC, GH 3

►► resp. library: **SIC Bonding Base – Hexagonal**

SICvantage

SICvantage | SICvantage tapered

grey 2.2

SICvantage max 3.0
SICvantage tapered 3.0

blue 2.5

SICvantage max 3.7
SICvantage tapered 3.7

red 2.9

SICvantage max 4.2, 4.7, 5.2
SICvantage tapered 4.2, 4.7, 5.2

SICvantage Bonding Bases

grey

Scanbody: 950801

950741
Bonding Base CAD/CAM,
straight

950742
Bonding Base CAD/
CAM, straight, bridges

950743
Bonding Base CAD/CAM,
15°

950744
Bonding Base CAD/CAM,
CEREC

blue

Scanbody: 950802

950761
Bonding Base CAD/CAM,
straight

950762
Bonding Base CAD/
CAM, straight, bridges

950763
Bonding Base CAD/CAM,
15°

950764
Bonding Base CAD/CAM,
CEREC

950765
Bonding Base CAD/CAM,
CEREC, GH 3

red

Scanbody: 950803

950771
Bonding Base CAD/CAM,
straight

950772
Bonding Base CAD/
CAM, straight, bridges

950773
Bonding Base CAD/CAM,
15°

950774
Bonding Base CAD/CAM,
CEREC

950775
Bonding Base CAD/CAM,
CEREC, GH 3

►► resp. library: **SIC Bonding Base SICvantage**

Multi-Unit Systems

(only on Crownbases)

independent from implants

Safe on Four

Mini-Multi-Unit

Scanbody: 936271

936270
Crown Base, Titanium

936278
Crown Base, CAD/CAM

Scanbody: 936296

936289
Crown Base, Titanium

►► resp. library: **SIC Multi-Unit**

SIC Milling Blanks

blue

936226
Milling Blank, M-Line

936224
Milling Blank, A-Line

red

936227
Milling Blank, M-Line

936225
Milling Blank, A-Line

►► resp. library: **SIC PreFace – Hexagonal & SICvantage**

SICvantage Milling Blanks

grey

950781
Milling Blank, M-Line

950784
Milling Blank, A-Line

blue

950782
Milling Blank, M-Line

950785
Milling Blank, A-Line

red

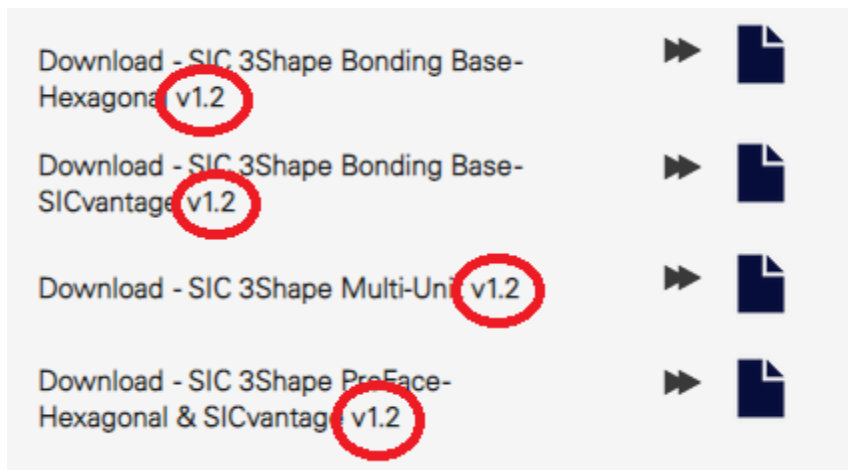
950783
Milling Blank, M-Line

950786
Milling Blank, A-Line

►► resp. library: **SIC PreFace – Hexagonal & SICvantage**

4 Installation of the libraries

You find the current **version** the libraries always at the end of the file name.



As soon as a new version is available, the done changes are documented in the **Changelog**. This way you can see at a glance in the changelog if you need the new version.

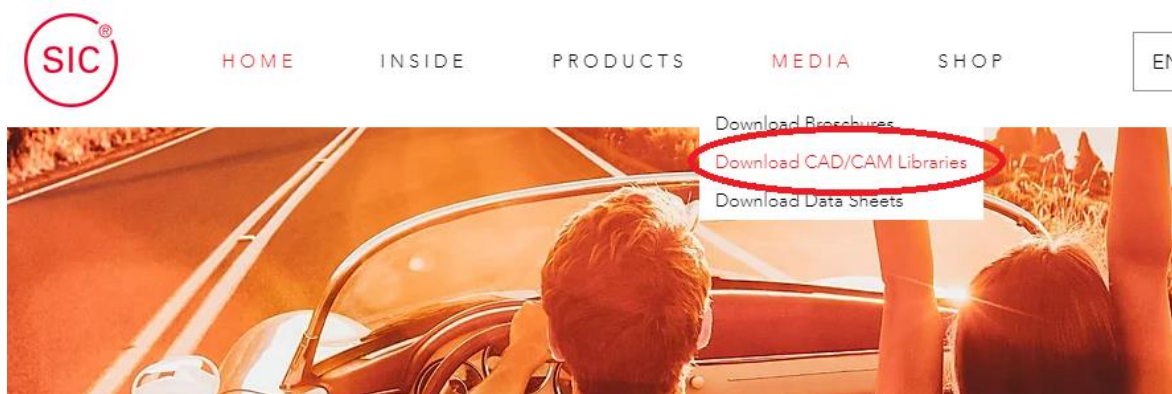
As a precaution, delete all previous versions before installing a new one. Depending on the software, there may be overlaps in some places which can cause major problems.

4.1 Installation in Exocad - DentalCAD

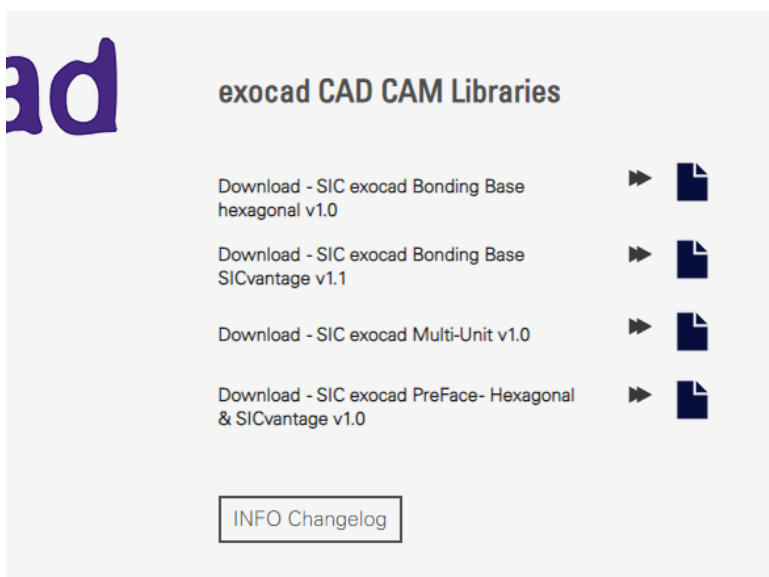
exocad

With Medit or Imetric scanners, the library should also be updated, because the geometry of the scan adapter is matched with the scan in the scan process and the scan has not yet been calculated down at this point. This makes the result much more precise.

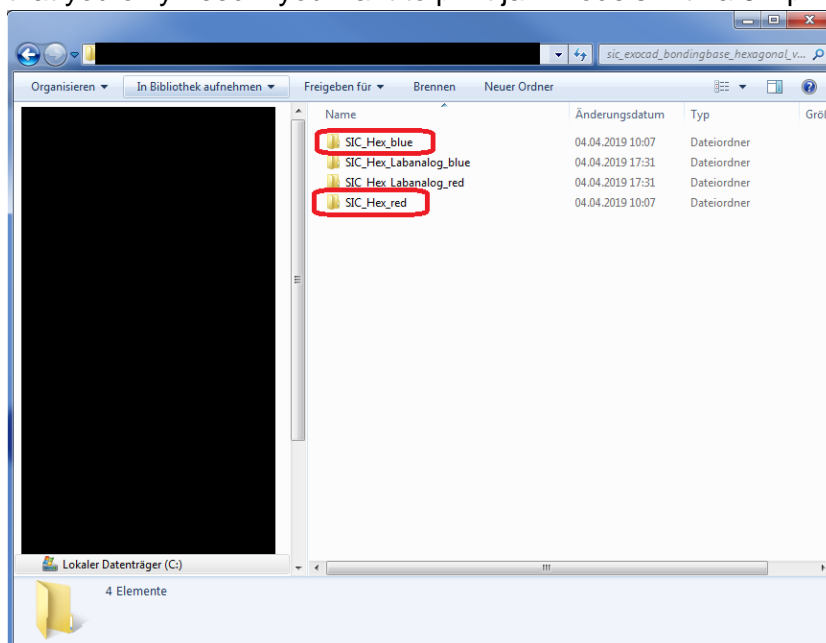
- Go to www.sic-invent.com and click in the tab "Media" on "CAD CAM Libraries"



- Select exocad
- Download the required library



- Unpack the downloaded .zip file
(If you have not installed a tool for unpacking .zip files, you can download and install "7-Zip" or "WinRAR" for free from the Internet.)
- Open the extracted folder and copy the folders of the DentalCAD libraries (in this example SIC_Hex_blue and SIC_Hex_red) with the files they contain
Hint: The folders with the note "... _Labanalog _..." in the name are ModelCreator libraries that you only need if you want to print jaw models with a 3D printer



- Paste the copied folders into the directory "...DentalCADApp/library/implants"
- With the restart of DentalCAD, the libraries should now be usable

4.1.1 3D Printer Presets

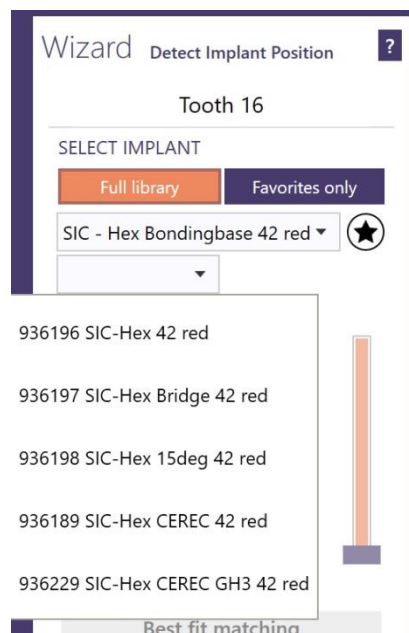
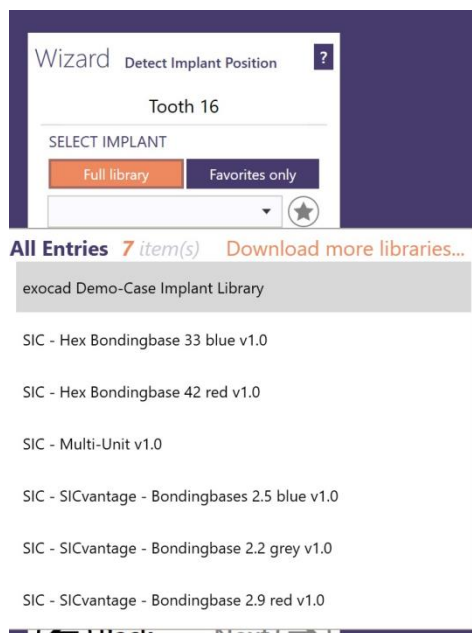
You only need to do the following step, if you are working with the ModelCreator from exocad.

- Copy the above mentioned “Labanalog” folder and paste it into the “...DentalCADApp/library/modelcreator/implants” directory

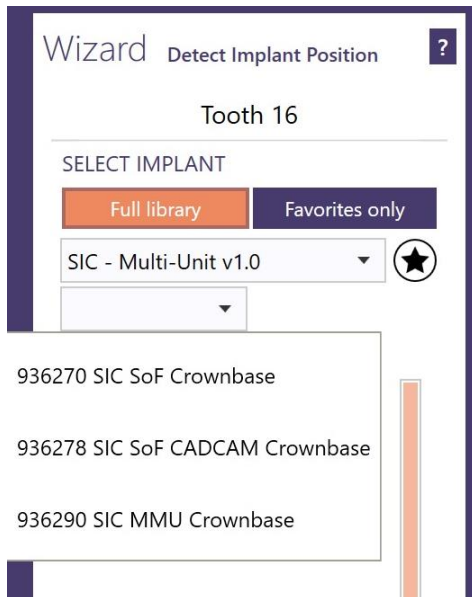


4.1.2 Structure of the Exocad library

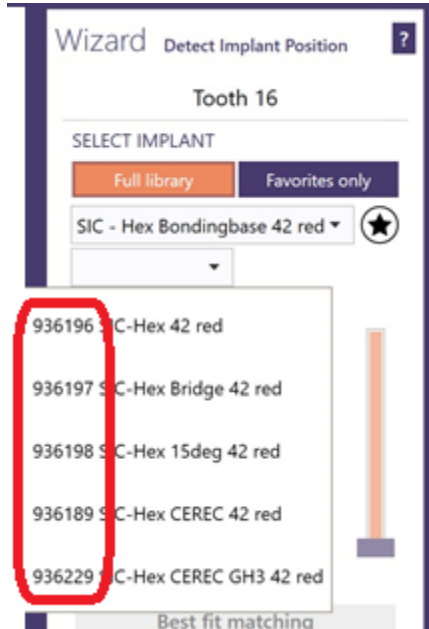
SIC Bonding Bases, Principle



SIC Multi-Unit Systems, Principle



The libraries are designed in such a way that you can refer to the article numbers. The numbers in front of the articles (red, picture below) are the article numbers (REF numbers) of the parts with which you can order the respective article from the Customer Service.



You find the information on how to contact the Customer Service in Chapter 2.



5 FAQ

Here you find the answers to the most frequently asked questions.

Q: The libraries I downloaded and installed don't appear in the software for selection. What should I do?

A: Restart the software. Most software does not update in real time. Instead they almost always need a restart to update all the new data.

Q: The restart didn't help, what else can I do?

A: Make sure that the required libraries were correctly installed (→ Chapter 3).

Q: Exocad gives me the error "Model Implant Library, LoadConfigFileError ..." after installing the libraries, what should I do?

A: Check that the libraries were copied to the correct folders during installation (→ Chapter 4.1).
All libraries without "..._Labanalog_..." in their file name have to be in the folder
"...DentalCADApp/library/implants".

All libraries with "..._Labanalog_..." in their file name have to be in the folder
"...DentalCADApp/library/modelcreator/implants".

Q: I'm done constructing a case, which item do I need to order now?

A: The libraries of SIC invent are designed in such a way that you can see the item number in the software in front of the item description (→ Chapter 4.1.2).

If you selected a Bonding Base in the software, you can simply order this exact item number from the Customer Service.

Q: I have an article here, what should I choose in the software now?

A: The libraries of SIC invent are designed in such a way that you can see the item number in the software in front of the item description (→ Chapter 4.1.2).

If you already have an item, just look for the item number (REF) in the library.