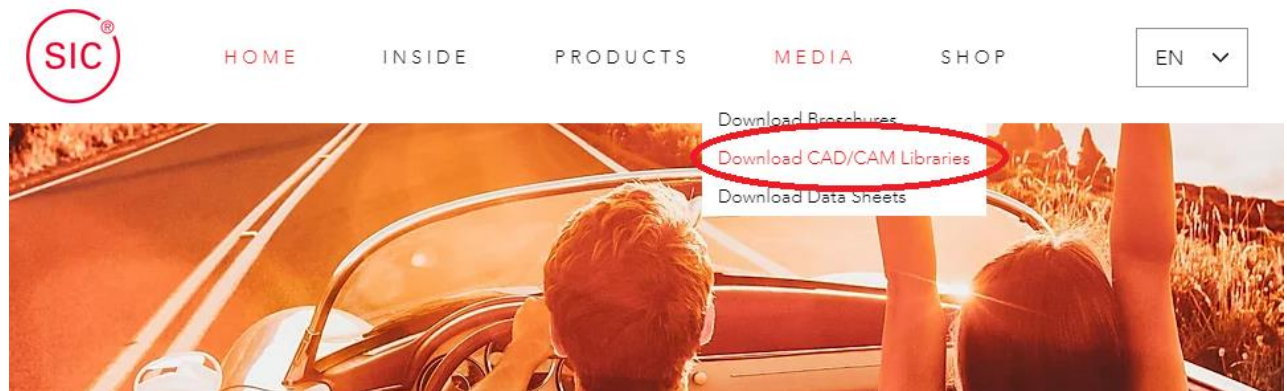


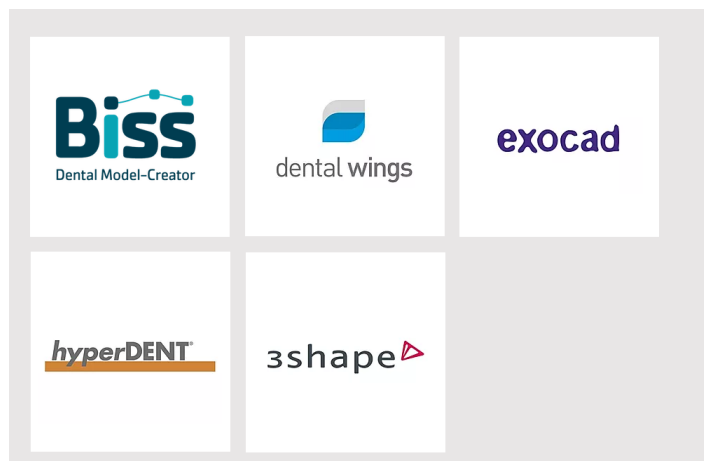
In this document, you find a short overview over the current CAD/CAM products and a guide on installing the SIC invent CAD/CAM-Libraries for 3Shape.

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

[www.sic-invent.com](http://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

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## 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.

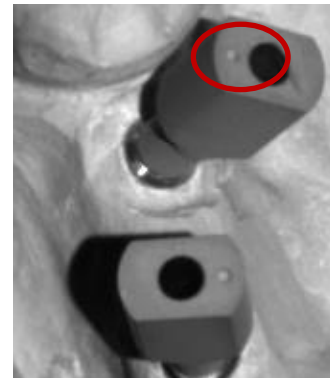
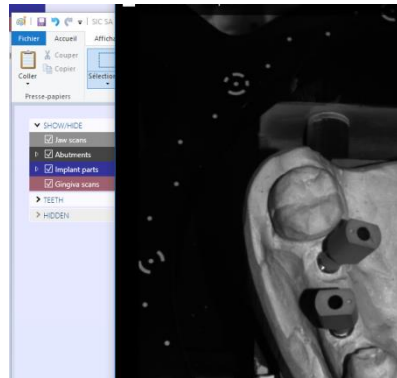
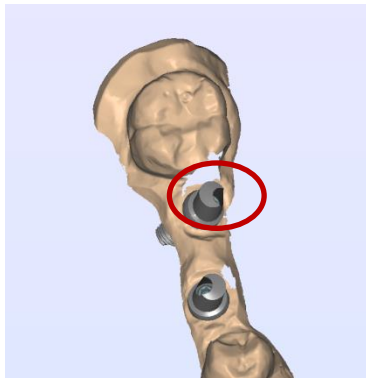


SIC Scan Adapter  
(incl. SIC Standard  
Fixation Screw)  
for digital modelling of  
CAD/CAM  
Customized Milled  
Abutments

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 
			
	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!

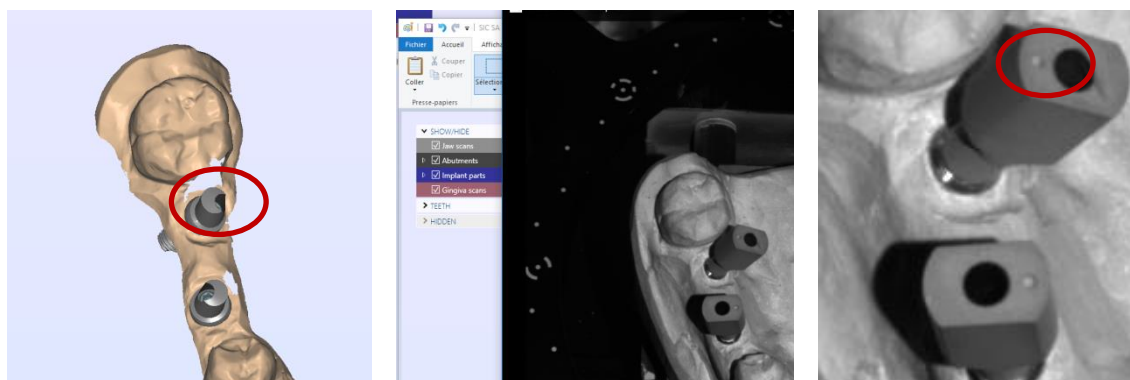
## SICvantage Scan Adapter

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](mailto:contact.germany@sic-invent.com)

Tel.: +49 551 504 294 0

For Switzerland:

Mail: [contact.switzerland@sic-invent.com](mailto:contact.switzerland@sic-invent.com)

Tel.: +41 61 260 24 60

For Austria:

Mail: [contact.austria@sic-invent.com](mailto: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](http://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

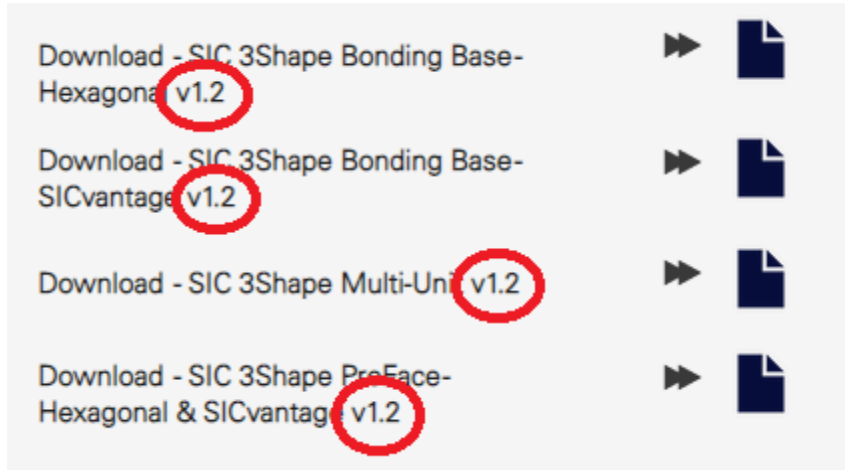
**950783**  
Milling Blank, M-Line

**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.



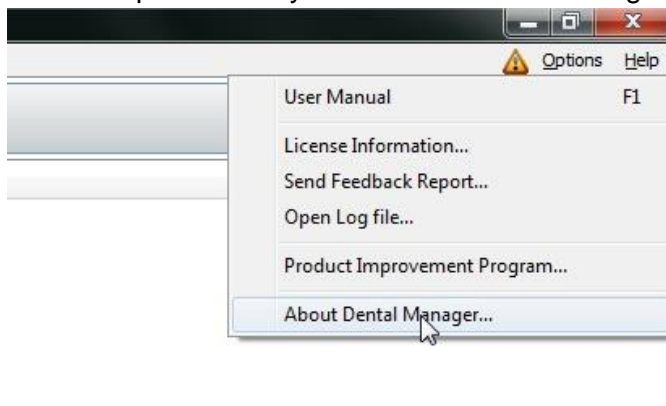
As soon as a new version is available, the done changes are documented in the [Changelog](#). This way you can see at a glance in the changelog if you need the new version.

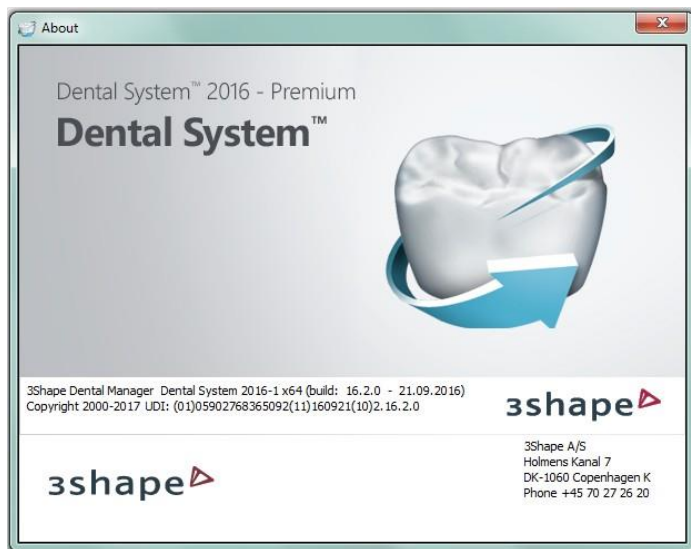
As a precaution, delete all previous versions before installing a new one. Depending on the software, there may be overlaps in some places which can cause major problems.

### 4.1 Import of the 3Shape library:

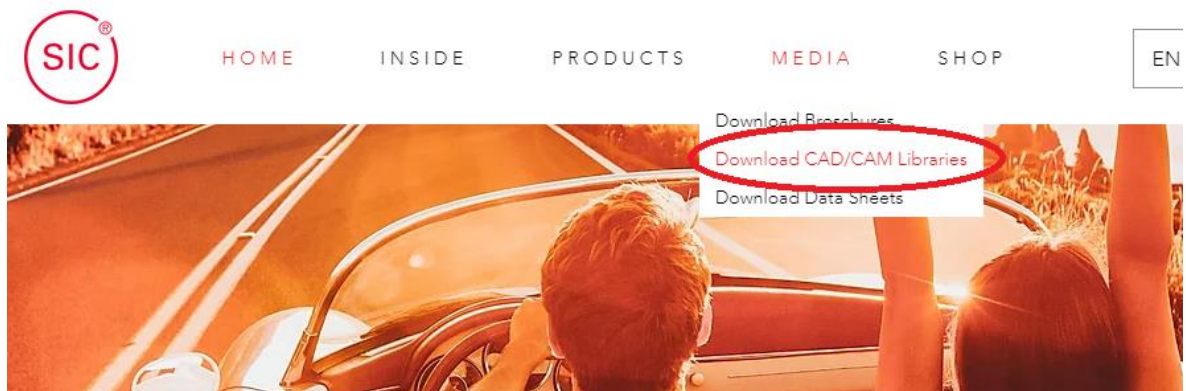


- Use 3Shape Dental System version **16.1.0** or higher

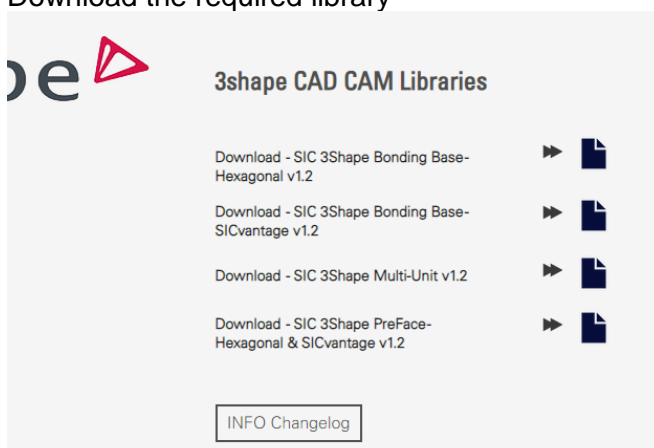




- Go to [www.sic-invent.com](http://www.sic-invent.com) and click in the tab "Media" on "CAD CAM Libraries"



- Select 3Shape
- Download the required library

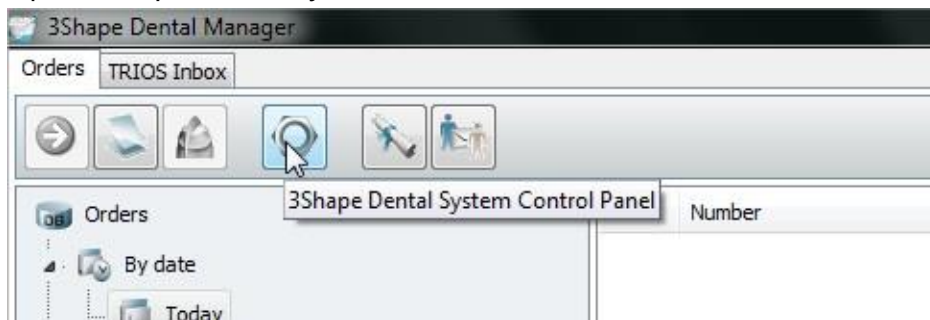


- Unpack the downloaded .zip file  
(If you have not installed a tool for unpacking .zip files, you can download and install "7-Zip" or "WinRAR" for free from the Internet.)
- Open *3Shape Dental Manager* (alternatively you can also open it directly from the Explorer.)

# Installation Guide

## for CAD/CAM-Libraries

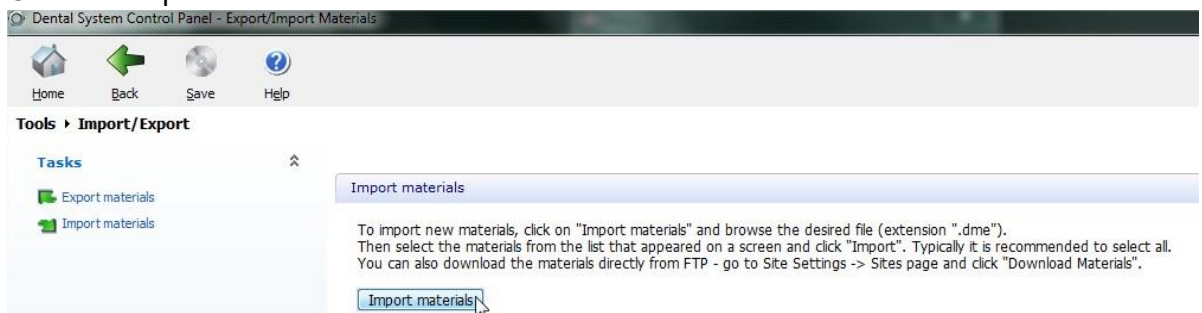
- Open 3Shape Dental System Control Panel



- Click on „Import/Export“



- Click on “Import materials”

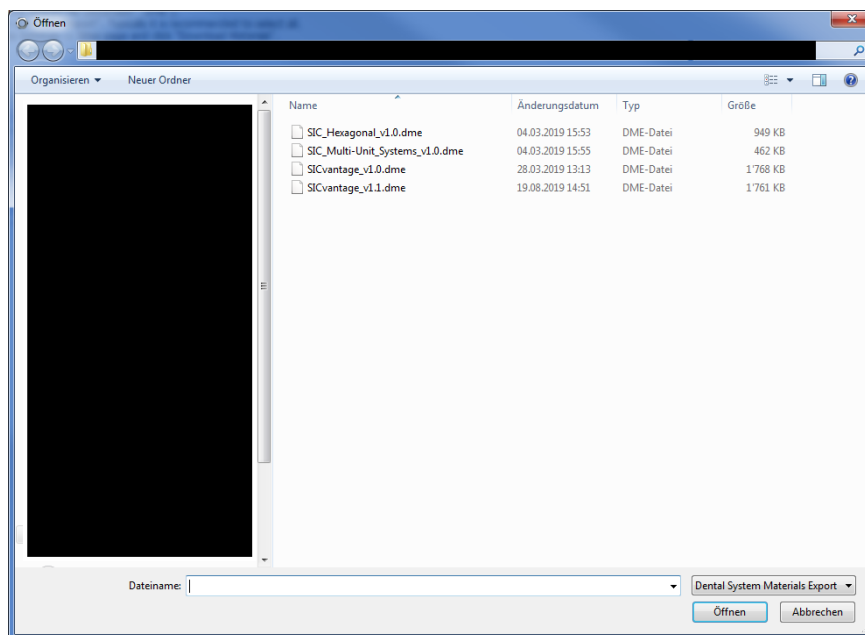


- Select the downloaded .dme file and open it

Implants from Implantologists

# Installation Guide

for CAD/CAM-Libraries







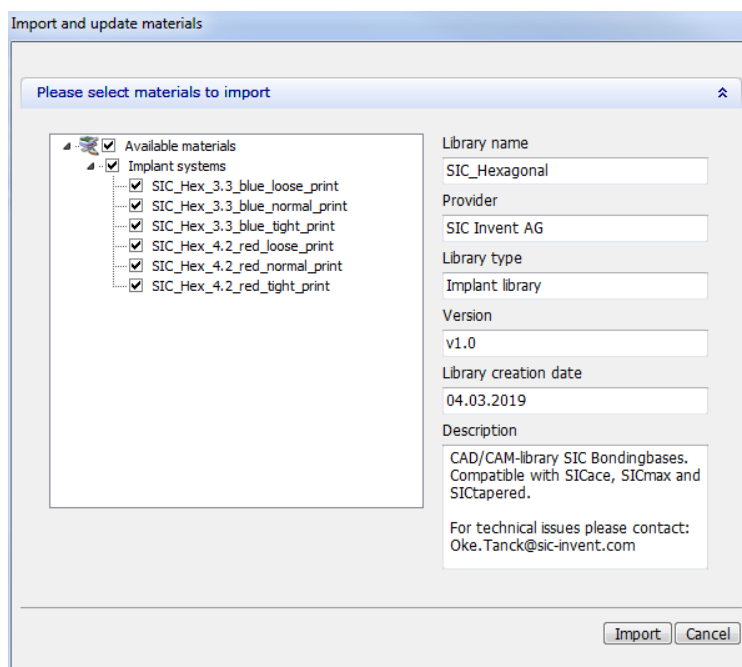
#### 4.1.1 3D Printer Presets

If you work without a 3D printer, it doesn't matter which of the three variations you import. All three variations are provided with the absolutely identical contour of Bonding Bases.

Just install the "...\_normal\_print" libraries and you are fine.

But if you work with 3D printer, you have at this point the possibility to choose how well the fitting of the "SIC Lab Implant for digital impression technique" in the printed jaw models shall be.

- „...\_loose\_print“ is for 3D printers that are relatively inaccurate. The fit with the Lab Implant will be very loose, compared to the other two settings.
- „...\_normal\_print“ is the standard size. It works for almost all 3D printers and boundary conditions.
- „...\_tight\_print“ is exclusively for 3D printers that are very reliable and that print with the highest precision. The fit with the Lab Implant will be very tight, compared to the other two settings.



If you don't know which size is best for you, it is recommended to import all three libraries and print a test case with all three variations and thereby test the best setting that suits for the application. Then remove the less suitable libraries from the control panel.



### 4.1.2 Structure of the 3Shape library

#### SIC Bonding Bases, Principle

Category	All items	Category	SIC_Hexagonal
System	All items SIC_Hexagonal SICvantage SIC_Multi-Unit Systems	System	SIC_Hex_3.3_blue_normal_print
Kit		Kit	936190_SIC_straight_3.3_blue
			936190_SIC_straight_3.3_blue 936191_SIC_bridge_3.3_blue 936192_SIC_15deg_ang_3.3_blue 936188_SIC_CEREC_3.3_blue 936228_SIC_CEREC_GH3_3.3_blue

Under “System” you can choose the presets for 3D printing with “...\_loose\_print”, “...\_normal\_print” and “...\_tight\_print”.

#### SIC Multi-Unit Systems, Principle

Category	SIC_Multi-Unit Systems	Category	SIC_Multi-Unit Systems
System	SIC_Safe_on_Four	System	SIC_Safe_on_Four
Kit	SIC_Safe_on_Four SIC_Mini-Multi-Unit	Kit	936270_SoF_Crownbase
			936270_SoF_Crownbase 936278_SoF_CAD/CAM_Crownbase

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.

Category	SIC_Hexagonal
System	SIC_Hex_3.3_blue_normal_print
Kit	936190_SIC_straight_3.3_blue
	936190_SIC_straight_3.3_blue 936191_SIC_bridge_3.3_blue 936192_SIC_15deg_ang_3.3_blue 936188_SIC_CEREC_3.3_blue 936228_SIC_CEREC_GH3_3.3_blue

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: 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.