

Straumann® CARES® On 3Shape

General Information

Version 9.1

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3Shape connectivity

1 Customer registration

Customer registration is necessary for the communication with Straumann and order administration. This ensures that all aspects of an order such as delivery documents and invoices work correctly. As a new Straumann customer, you will receive a Straumann SAP customer number by your local Straumann subsidiary. Please contact your sales representative or your local Straumann subsidiary.

As a customer - to get access to Straumann produced prosthetics some Straumann specific data have to be placed into the 3Shape internal registration.

For customer registration, following information is needed:

- Contact data: Name of Dental Lab and contact person
- System ID of 3shape System
- Straumann SAP customer number

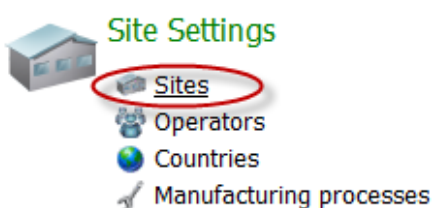
The shipping address can be different from the customer address. Both customer and shipping address must be in the same country. For consistency reasons and to guarantee seamless shipping please fill in your Dental lab address with the same format.

1.1 How to define the contact settings:

1. Open 3Shape Dental System Control Panel



2. Select „Sites“ under section „Tools“



3. Chose your Lab Site ID (in bold printed Lab) and configure the contact settings:

Site Settings ▶ Sites

Tasks
 Import site(s) from server
 Import sites from Excel document

Table

In bold printed Lab
Lab 1
Lab 2
Lab 3

Alphabetically

+ Add
 + Add Dentist
 + Copy
 X Delete
 ↕ Move up
 ↕ Move down

Show Dentists
 Show Labs
 Show Manufacturers

Recycle bin
 ➔ No items
 🗑 Restore all

Edit Site

ID 57005

External ID (for interfacing with third party software)

Name **In bold printed Lab**

Sub-site ID

Order number site ID

Has scanner
 Has CAD
 Has CAM
 Allow changing of order size Large (complete order)

Contacts settings

Address 1	Company name (mandatory)
Address 2	Street name & No. (mandatory)
Zip code	Zip code (mandatory)
City	City (mandatory)
State	State (optional)
Country	Chose your country
Phone	Phone (optional)
Fax	Fax (optional)
Email	Email address (optional)
Web address	Web address (optional)
Contact person	Contact person (optional)

Options within the order mask (ship to different address):

Ship to different address

Shipping address:

Company name

Street name & No.

Zip **City**

Country

1.2 Installation of the Straumann DME library

The customer can download a DME library from Straumann (see Section 2.0) to define the interface to Straumann milling center. This DME library is developed and validated by 3Shape and Straumann.

Please carry out the following steps to install the Straumann DME library file:

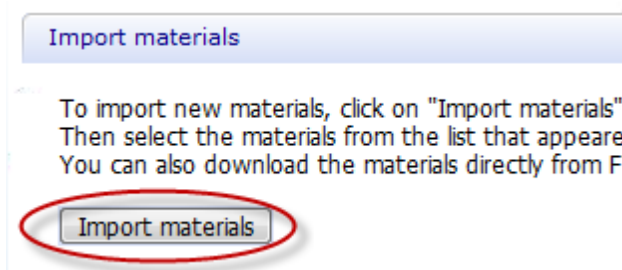
1. Open 3Shape Dental System Control Panel



2. Select "Import/Export" under section "Tools"



3. Click on "Import materials" to open a stored DME library file



4. Select the stored Straumann DME library file on your PC to import

2 Using and Ordering Straumann Materials

To use and order Straumann materials the core 3Shape software and Abutment Designer is required (2019 version 19.2.0 is recommended, but users are recommended always to use the latest release).

Please check the Straumann site for new DMEs for material and indication.

[Connectivity Dental Implant & Prosthetic CAD/CAM Design Library \(straumann.com\)](https://straumann.com)

Each of the Straumann materials with its indications has an IFU that can be obtained directly from the Straumann IFU site:

ifu.straumann.com/

2.1 Cautions and Advice

2.1.1 Scanner Source

The source of scanned data and preparation of the tooth model are critical for the quality of the interface to the restoration. Ensure that the scanned data correctly represents the patient situation in order to avoid the need for later filing and fitting tasks that may also reduce the strength of the restoration.

Only products designed from scans made by 3Shape Scanners are approved by Straumann and where appropriate get the Straumann guarantee.

2.1.2 Blank size

Maximum blank sizes for manufacture in Straumann disk materials are not shown during the restoration design. If a design is bigger than the maximum blank size then the order cannot be manufactured and must be adjusted before resending. The maximum heights of Straumann disk blanks by material are:

▪ Straumann ticon; Straumann coron	19,50 mm
▪ Straumann Zerion LT	15,35 mm
▪ 3M™ Lava™ Plus	23,21 mm
▪ Straumann Polycon cast	14,85 mm
▪ Straumann Polycon ae	15,85 mm
▪ Zerion UTML	18,00 mm
▪ JUVORA™ PEEK	19,21 mm
▪ 3M™ Lava™ Esthetic	16,86 mm
▪ Zerion HTML	22,00 mm

2.1.3 Limitations:

- Design of indications that are not included in the above list may result in a restoration of insufficient strength and it is possible that the order cannot be manufactured
- Detailed information regarding materials and indications can be found on the website ifu.straumann.com or download Straumann CARES® Guide for iPhone via Apple App Store
- The following indications and materials are not supported. An order of any of these should **not** be made as these may not satisfy patient requirements, and will be solely the responsibility of the dental professionals:
 - Telescopic crown
 - Post core
 - Attachments
 - Crowns and coping with a hole
- With Straumann Mono Scanbodies, the screw-hole needs to be closed (e.g. with wax) to improve the ease of scanning

2.1.4 Indications and Materials

The following indications and materials are available - the indications permitted depend on the material type:

Overview of 3Shape indications combined with Straumann material which can be send to the Straumann milling facility																		
Indication \ Material	Straumann zerion LT	Straumann 3M™ Lava™ Plus ⁹	Straumann coron	Straumann ticon	Straumann polycon cast	Straumann polycon ae	Straumann ZrO ₂	Straumann Titanium	Straumann TAN ²	Straumann CoCr ^{3,6,7}	Straumann Ivoclar e.max	Straumann zerion HTML ^{5,9}	Straumann zerion UTML ^{5,10}	Straumann nIce LT/HT ⁷	Straumann JUVORA™ PEEK ³	Straumann 3M™ Lava™ Esthetic ¹⁰	Straumann Vita Mark II	Straumann Vita TriLux
Tooth borne																		
Crown	x	x	x	x	x	x					x	x	x	x ⁸		x	x	x
Crown pontic	x	x	x	x	x	x						x	x			x		
Coping	x	x	x	x	x	x						x	x			x		
Frame pontic	x	x	x	x	x	x						x	x			x		
Inlay / Onlay											x	x	x	x		x	x	x
Veneer											x	x	x	x		x	x	x
Standard bridge	x	x ⁴	x	x	x	x						x	x			x		
Undercut bridge ¹	x	x ⁴	x	x	x	x						x	x			x		
Straumann Abutment (one piece)																		
Customized abutment							x	x		x								
Anatomical abutment							x		x	x								
Waxup abutment							x	x	x									
Straumann Abutment (Ti-Base)																		
Customized abutment	x	x	x			x						x	x ³		x	x		
Anatomical abutment	x	x	x			x					x	x	x ³	x ^{3,8}	x	x		
Screw retained crown	x	x	x			x					x	x	x ³	x ^{3,8}	x	x		
¹ One individual crown can have an insertion axis tilting of up to 9 degrees																		
² Direct Veneerable Abutment																		
³ Not available for US market																		
⁴ Limited to a maximum of 5 units in JPN																		
⁵ no pre-nesting, only 18mm blank height																		
⁶ Not available for CAN market																		
⁷ Not available for JPN market																		
⁸ in CAN front teeth and canines only																		
⁹ Limited to 6 units and 2 consecutive pontics in CAN																		
¹⁰ Limited to 3 units up to premolar																		

For SRBB indications, guidance and availability see:

- http://www.straumann.com/content/dam/sites/straumann/xy/dental-professionals/documents/cares-3rd-party-systems/3shape_SRBB_Design_Guide_EN.pdf
- http://www.straumann.com/content/dam/sites/straumann/xy/dental-professionals/documents/cares-3rd-party-systems/3shape_SRBB_products.pdf

2.1.5 Cautions

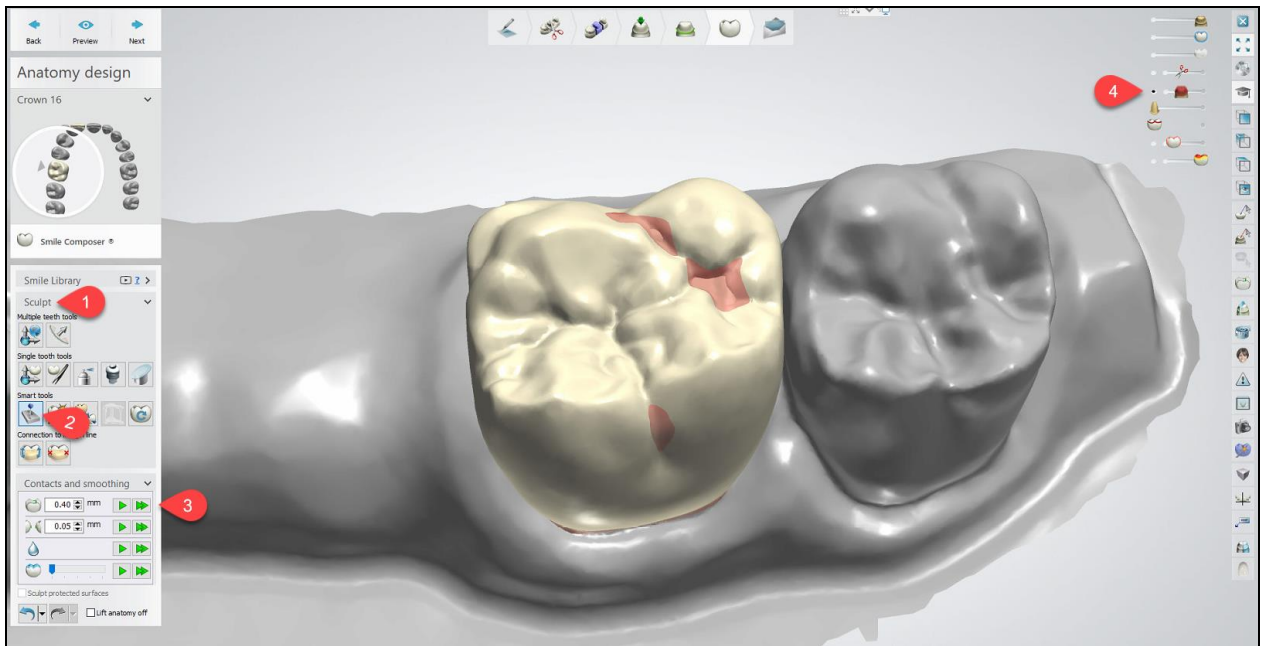
- **Minimum and Maximum Dimension Controls**
 Straumann has developed and tested the limits of dimensions of features in the prosthesis type. These dimensions are controlled through use of normal design tools in the Dental Designer software. Some of the limits can be exceeded or undershot through use of design tool combinations, when this occurs the prosthesis may not have sufficient strength or may not be manufacturable.
 Do not decrease cross-sections using wax knives or increase lengths using material addition, when a limit has already been reached with geometry “handles” or other tools.
- **Margin thickness:**
 Do not decrease the default minimum margin thickness values, the prosthetic may not be strong enough
- **Drill compensation:**
 Do not alter the default drill compensation values. Altering these could have a negative effect on the milled restoration’s fit.
- **Number of pontics:**
 Do limit the number of pontics please see ifu.straumann.com for the recommended maximum number of pontics in front and side areas of mouth.
- **Abutments should always have a hole:**
 Do not block the hole or the order cannot be made.
- **Cross-section of pontics:**
 Do not make a pontic smaller than the minimum connector cross-section area.
- **Attachment types:**
 Do not use attachments or holes with Straumann materials as they may not be manufactured.
- **Glass ceramic indications:**
 Please be aware that all glass ceramic indications (crown, inlay, veneer, two-piece abutment) are customized devices and will be delivered without CE marking.
 Furthermore it is **very important to manually verify** within the design module, that the prosthesis meets all of the glass block manufacturer’s minimum wall thickness values for the indications as given below. A short description how this works is listed below.
- **Abutment angle limitation for Wax-up abutments:**
 Ensure that the angle of the principle axis of the Wax-up abutment does not exceed 30°.
- **Local milling – Material dependency:**

Only use material and variobase/stock-abutment combinations that are approved in your country.

Ensure that the recommended minimum wallthickness are used, always read the material manufacturer's IFU.

2.1.6 Centralized Milling Recommended Thicknesses

To ensure that these values are met, they must be **manually set** and confirmed within the 3Shape software **design mode** as described below:



- (1) Go forward to the “Sculpt” design mode
- (2) In the Section “Smart Tools” click on “Contacts and smoothing”
- (3) Check or enter the wall thickness value for your material – indication combination according to the upper table and run the test with the green marked confirmation button.
- (4) The wall thickness can also be checked with the “Thickness map” button at the upper right.

After the wall thickness check is successfully done you can proceed as usual.

Table 1 shows the Straumann minimum manufacturing limits.
The indications cannot be manufactured with wall thicknesses thinner than these.

The Table 1 limits allow the user to have more design flexibility, but are below the glass block manufacturer's recommended values, which are shown in Table 2.

Straumann minimum manufacturing limits

Indication Material	Crown	Veneer	Inlay / Onlay
IPS e.max	1,0 mm	0,6 mm	1,0 mm
Vita Mak II; Vita TriLuxe	1,0 mm	0,5 mm	1,0 mm
Straumann n!ce	0,8 mm	0,6 mm	1,0 mm

Table 1 Straumann minimum manufacturing limits

Glass block manufacturer's recommended values

Indication Material	Crown	Veneer	Inlay / Onlay
IPS e.max	1,0 mm	0,6 mm	1,0 mm
Vita Mak II; Vita TriLuxe	1,5 mm	0,7 mm	1,5 mm
Straumann n!ce	1,0 mm	0,6 mm	1,0 mm

Table 2 Glass block manufacturer's minimum recommended limits

Table 3 shows the Straumann required minimum wall thickness for glass ceramic on two-piece abutments (Ti-base).

Indication Material	Abutment (Ti-Base) (NC, NNC)	Abutment (Ti-Base) (RC, RN, WN)	Abutment (Ti-Base) Medentika and Neodent Interfaces	Ceramic Implant - Monotype
IPS e.max	0,7 mm	0,9 mm	0,9 mm	0,9 mm
Straumann n!ce	1,0 mm	1,0 mm	1,0 mm	1,0 mm

Table 3 Minimum required wall thickness for two-piece abutments

Straumann Cementable (Stock) Abutments

Table 4 shows the Straumann required minimum wall thickness for glass ceramic Straumann Cementable abutments

Indication Material	Cementable Abutment (NC, RC, RN, WN)
IPS e.max	0,9 mm
Straumann n!ce	1,0 mm

Table 4 Minimum required wall thickness for stock abutments

Cautions when using Straumann Cementable (Stock) Abutments:

- The maximum allowed inter-implant angulation for a bridge is 8°
- In bridges ensure that you leave a thicker margin on the crown (in 3Shape software called “Screw-retained crown”) over the cementable abutment
- Only bridges without screw-channels can be produced.
- Do not mix the Straumann Stock abutment interfaces with other Ti-base interfaces.

Please Note:

In some versions of 3Shape the button picture is marked “Veneer/Onlay” – this should only be used for veneers.

The Inlay button in these 3Shape versions can also be used for “Onlay” indications (Partial Crowns are also handled as the Inlay/Onlay indication).

**2.1.7 In-house Milling Recommended Thicknesses
- for n!ce and Pre-milled Abutments by Straumann -**

Pre-milled Abutment blank values and rules:

- The abutment thickness should not be less than 0.4 mm (screw hole to outer abutment surface).
- The maximum angulation should not exceed 30°.
- The Straumann® Pre-milled Abutment Blanks should be rounded occlusally and sharp edges should be avoided

N!ce glass ceramic recommended values

Indication Material	Abutment (Ti-Base) (NC, NNC)	Abutment (Ti-Base) (RC, RN, WN)
Straumann n!ce	1,0 mm	1,0 mm

Table 5 Minimum required wall thickness for two-piece abutments

3 Terms and Conditions (AGB) for Straumann Products

Practitioners must have appropriate knowledge and instruction in the handling of the Straumann products for using them safely and properly in accordance with their instructions for use. It is the practitioner's responsibility to use the device in accordance with the instructions for use and to determine, if the device fits to the individual patient situation.

The Straumann Product is part of an overall concept and must be used only in conjunction with the corresponding original components and instruments distributed by Institut Straumann AG, its ultimate parent company and all affiliates or subsidiaries of such parent company ("Straumann"), except if stated otherwise in the instructions for use. If use of products made by third parties is not recommended by Straumann in the instructions for use, any such use will void any warranty or other obligation, expressed or implied, of Straumann.

Links to Detailed Terms and Conditions (to be read before ordering):

[AGB \(straumann.com\)](https://www.straumann.com)

[Privacy Notice Straumann Webinars](#)

Contact:

Contact information subsidiary