 ROOTT implant library for  
3Shape Dental System



ROOTT implant library –

installation instructions for

3Shape Dental System

**Step 1.** Download ROOTT digital library from <https://trate.com/digital/>

▲ For 3Shape [DEMO]

DEMO\* version of Prosthetics parts (Dental System)

ROOTT B; ROOTT BS; ROOTT C; ROOTT CS (External platform telescopic abutments:  
PCE0 - PCE3, PCES1-PCES3, PCEXS1-PCEXS2, TCE0 - TCE3, TCES1-TCES3, TCEXS0-TCEXS2)

ROOTT M (PCOM, digital detail for framework)

ROOTT P (PCOM, digital detail for framework)

ROOTT S (PCOMS, digital detail for framework)

ROOTT R (PCO1 - PCO3, POC1S - PCO3S, PCO, CRE, PMAB)

Scanpost (SPCO, SPCOIO, SPCOM, SPCOMIO, SPCOMS, SPCOMIOS, TRA, HE, TOEA, TOE,  
External platform)

Digital analogs (AND, ANMD, ANMSD, ANED).

*\*full version not yet available*

[Download .zip](#)

download size 12 mb

**Step 2.** Open 3Shape **Dental System Control Panel** and click **Import/Export**.

Home Page

**System Settings**

- System Settings
- System Cleanup
- Design Options
- Services
- Auto Workflow

**DentalManager**

- General
- Manufacturing Inbox
- ERP and processing time
- Order import
- Working days
- 3rd party applications
- Milling machines

**Site Settings**

- This site
- Dentists
- Labs
- Manufacturers
- Operators
- Countries
- Manufacturing processes

**Tools**

- Subscription Management (Dongle)
- Import/Export**
- Download Center
- Training Center
- 3Shape Communicate

**Basic elements**

- Materials
- Colors
- Margin line
- Attachments
- 2D Design overlays
- CAD blocks
- Press Multi sprues
- Articulators

**Anatomy elements**

- ScanIt library
- Anatomy and Pontic libraries
- Smile libraries
- Artificial teeth
- Crowns
- Crown Pontics
- Inlays
- Onlays/Veneers
- Temporary Crowns
- Temporary Pontics
- Temporaries on prepared model
- Tabletops

**Frame elements**

- Copings
- Frame Pontics
- Waxups
- Primary telescopes

**Abutments**

- Top cap libraries
- Implant systems

**Step 3.** Click **Import material** in a new window.

**Import materials**

To import new materials, click on "Import materials" and browse the desired file (extension ".dme"). Then select the materials from the list that appeared on a screen and click "Import". Typically it is recommended to select all. You can also download the materials directly from FTP - go to Site Settings -> Sites page and click "Download Materials".

**Import materials**

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**History Of Import Materials**

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**Export materials**

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**Clone system**

**Step 4.** Open downloaded folder, click on one of the folders and open DME file.

This PC > Downloads

Name	Date modified	Type	Size
▼ Today (1)			
TRATE_ROOTT_3Shape_04-03-2020	2021-10-13 10:09	File folder	

Date created: 2021-10-13 10:09  
 Size: 12,8 MB  
 Folders: TRATE\_ROOTT\_3Shape\_Bridge, ...

This PC > Downloads > TRATE\_ROOTT\_3Shape\_04-03-2020 >

Name	Date modified	Type	Size
TRATE_ROOTT_3Shape_Bridge	2020-03-02 13:18	File folder	
TRATE_ROOTT_3Shape_PEEK-P	2020-03-04 09:50	File folder	
TRATE_ROOTT_3Shape_Pre-mil	2020-03-02 13:18	File folder	
TRATE_ROOTT_3Shape_ZrO	2020-03-04 08:46	File folder	

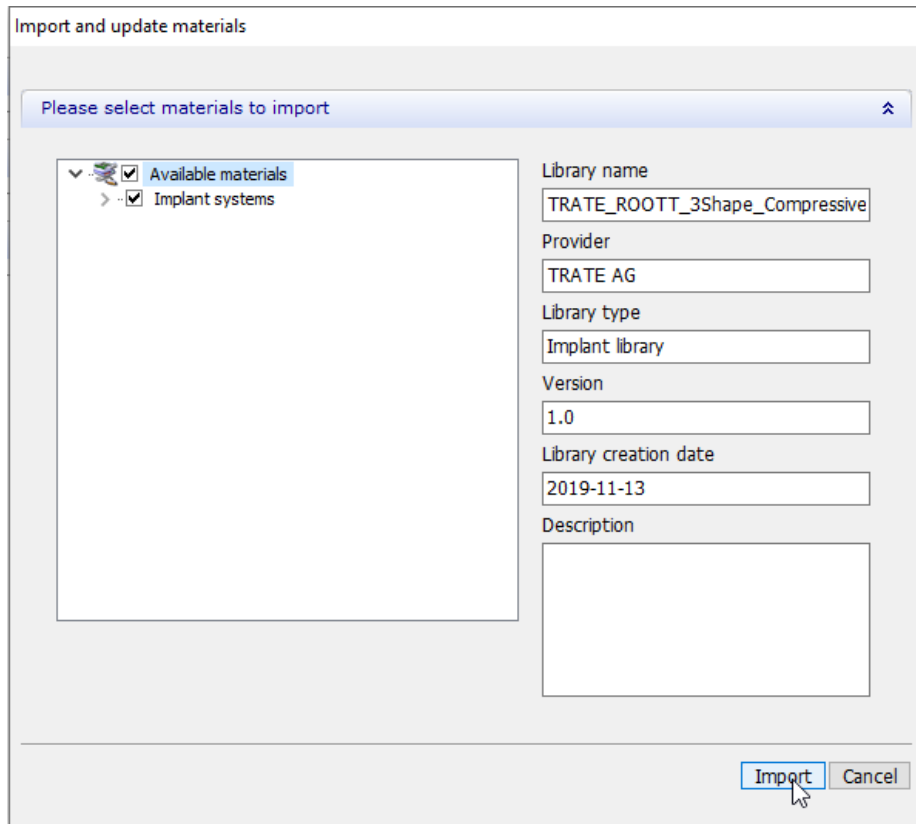
Date created: 2021-10-13 10:09  
 Size: 581 KB  
 Files: ...

Downloads > TRATE\_ROOTT\_3Shape\_04-03-2020 > TRATE\_ROOTT\_3Shape\_Bridge

Name	Date modified	Type	Size
TRATE_ROOTT_3Shape_Compressive M, ...	2020-03-02 13:18	DME File	582 KB

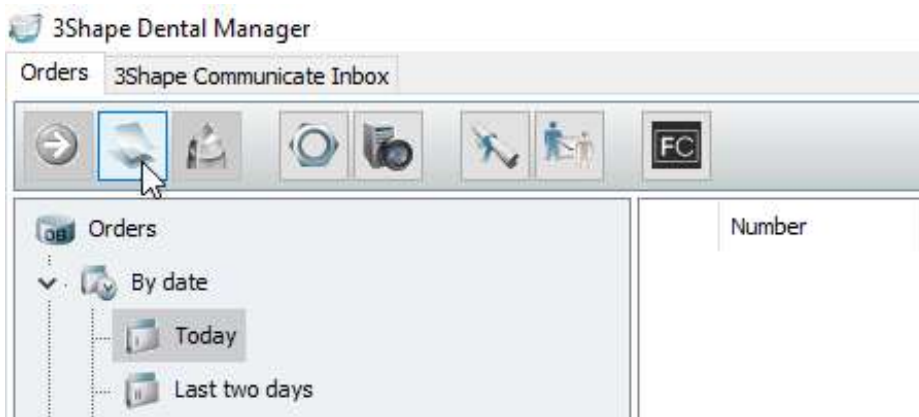
TRATE\_ROOTT\_3Shape\_Compressive M, MP, MS\_Bridge\_12-11-2019\_1.0.dme  
 Type: DME File  
 Size: 581 KB  
 Date modified: 2020-03-02 13:18

**Step 5.** Click **Import**.

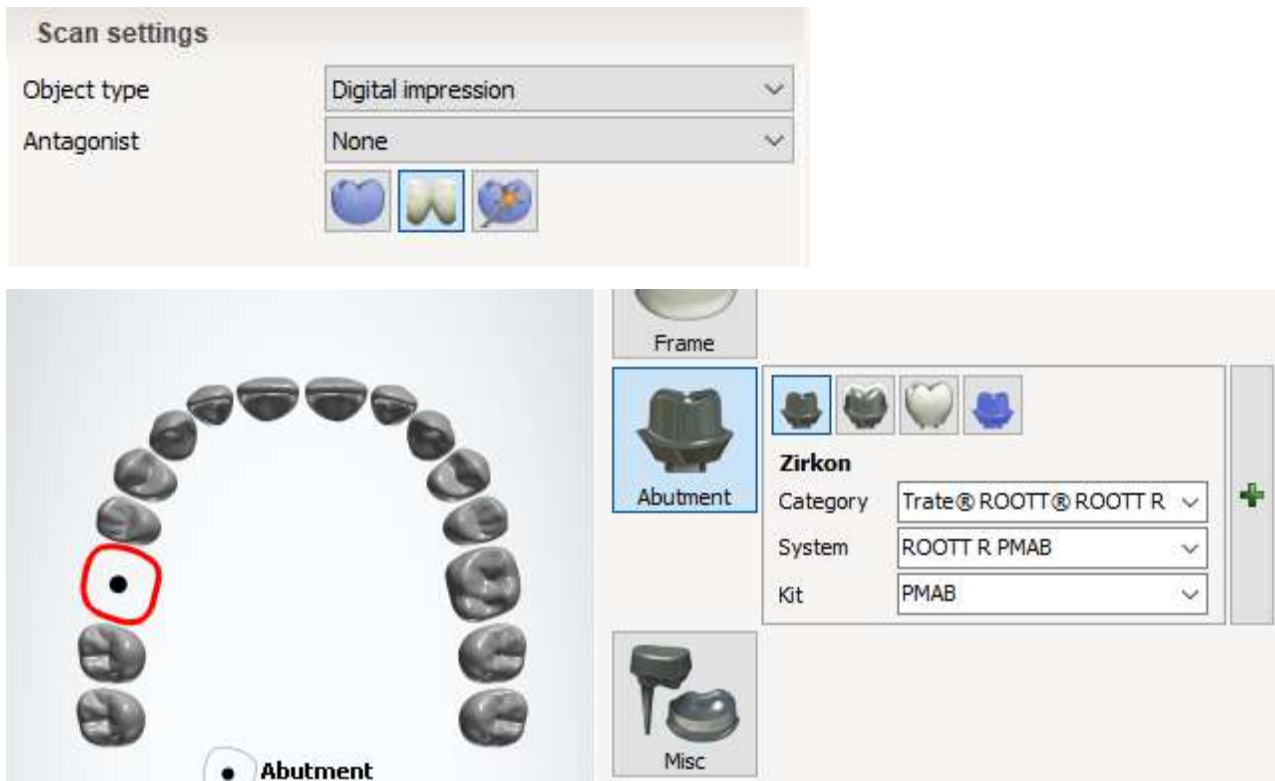


**Step 6.** Repeat Steps 4 and 5 with the other folders that are located in **TRATE\_ROOTT\_3Shape\_04-3-2020**

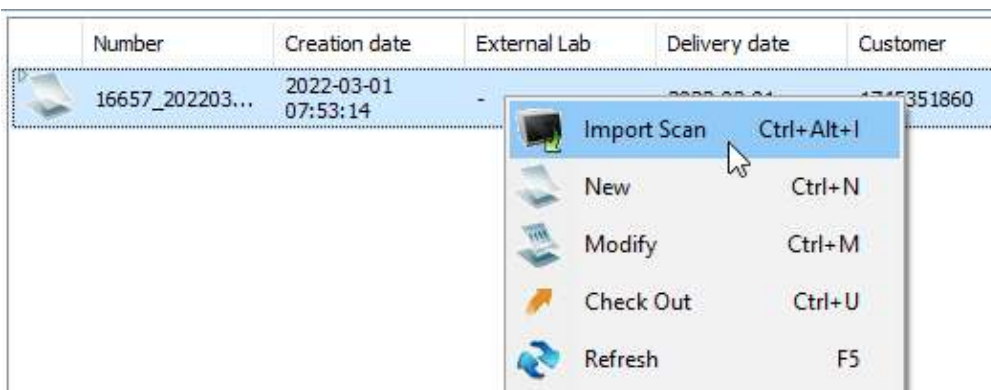
**Step 7.** Open 3Shape Dental System. Click icon **New** or select combination **Ctrl+N**



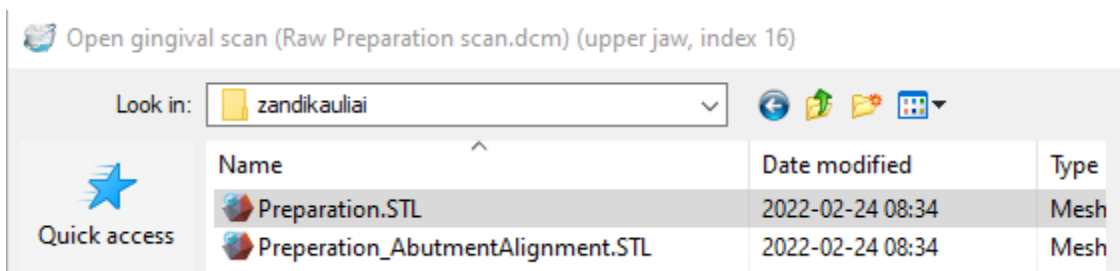
**Step 8.** Fill the information in the Order form, and select the abutment. In the given example, customizable pre-milled abutment PMAB is used.



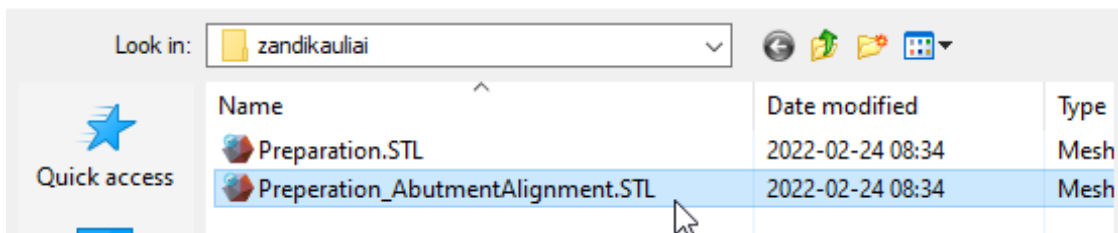
**Step 9.** After the case is created, right-click and select **Import Scan**.



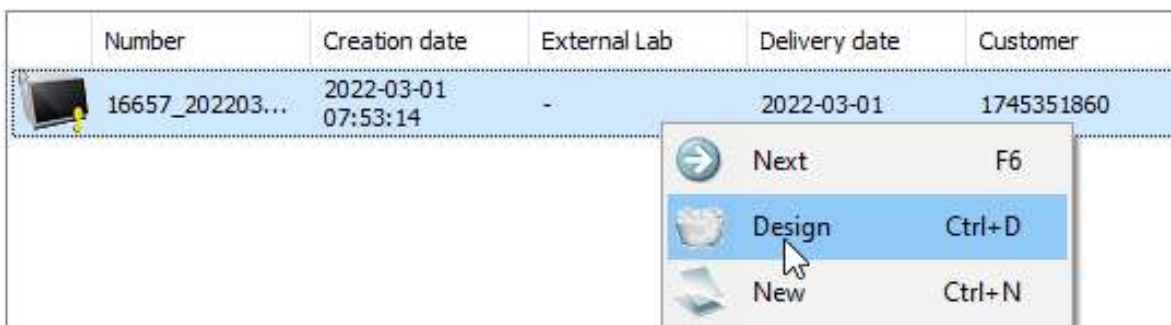
**Step 10.** See the upper line in the given table what scan model is needed. In this case, it is a raw preparation scan. Then, abutment alignment scan.



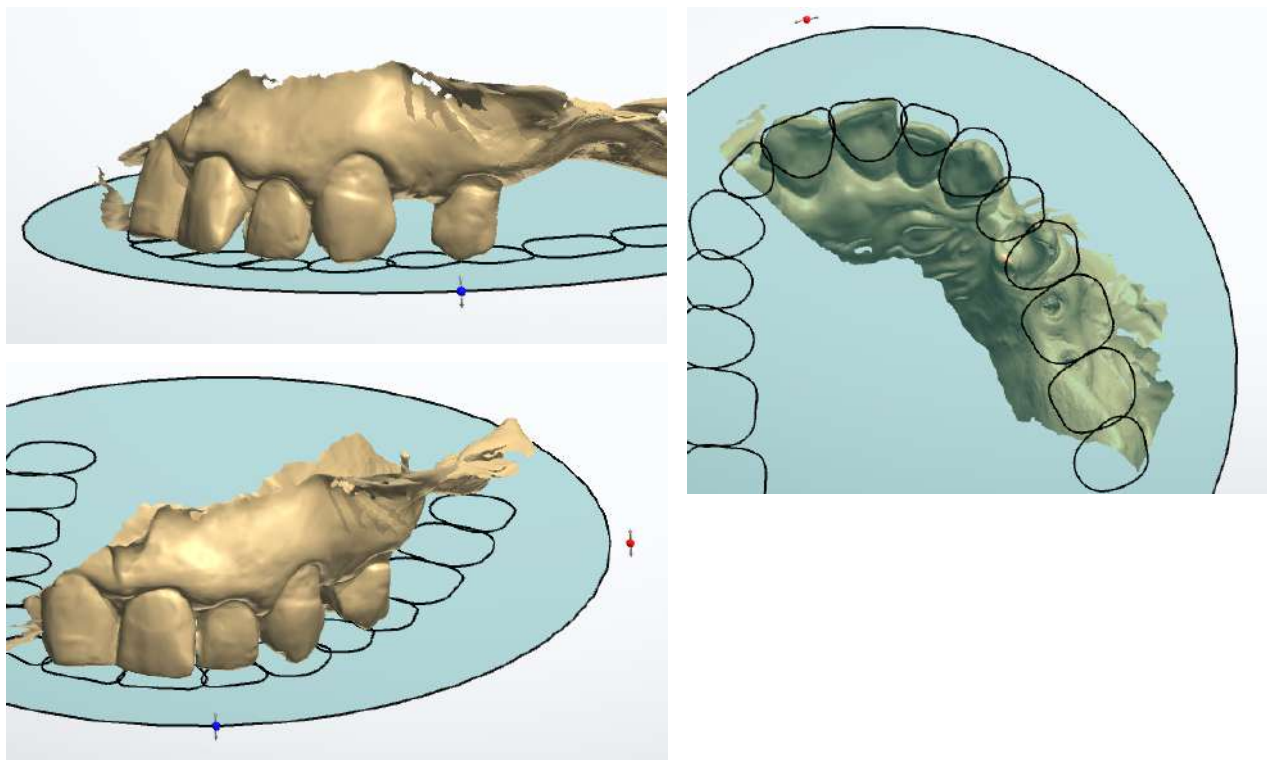
Open abutment scan (AbutmentAlignmentScan.dcm) (upper jaw, index 16)



**Step 11.** After the scans are uploaded, right-click **Design**.

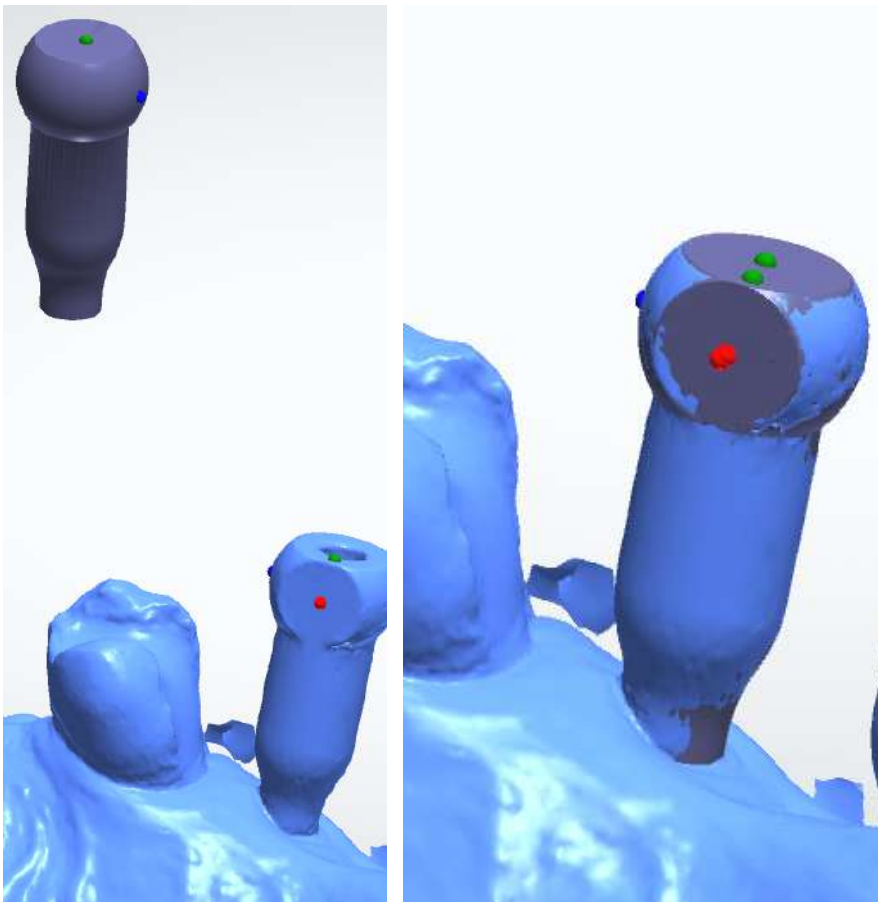
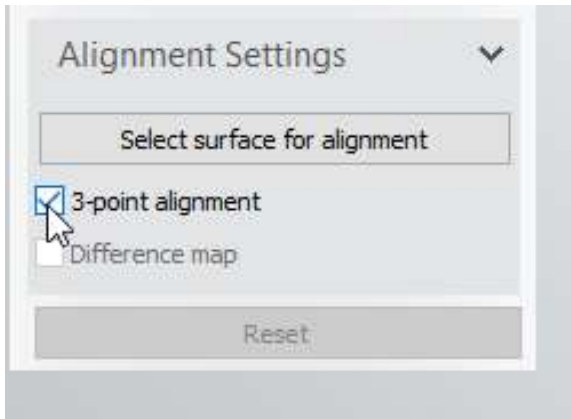


**Step 12.** In new open window, align teeth with the plane.



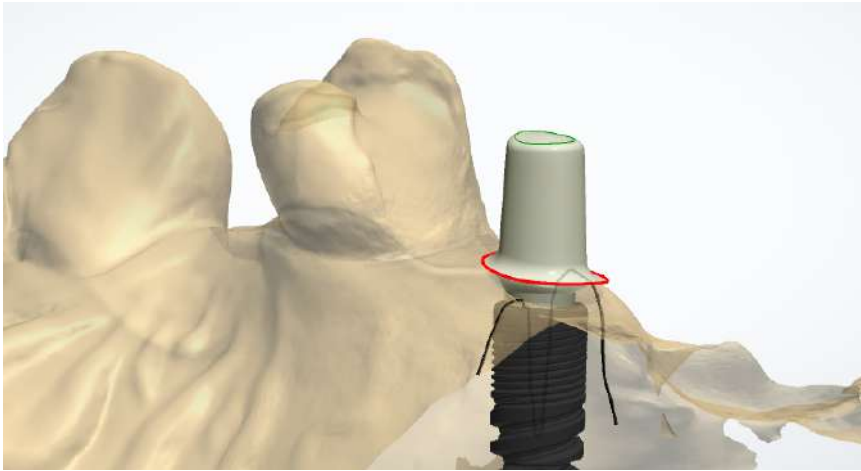
**Step 13.** Click **Next** in the left corner of the screen or press **Enter**. Scan trim and sculpt the jaw if needed. If not, skip these steps by clicking **Next** two times.

**Step 14.** To align the scan post to the scan model, select **3-point alignment**. Put those three points on the scanned model as it is on the scan post. Draw your attention to the color of the dots. If a mistake was made, press **Reset** in the Alignment Settings and repeat step 14.

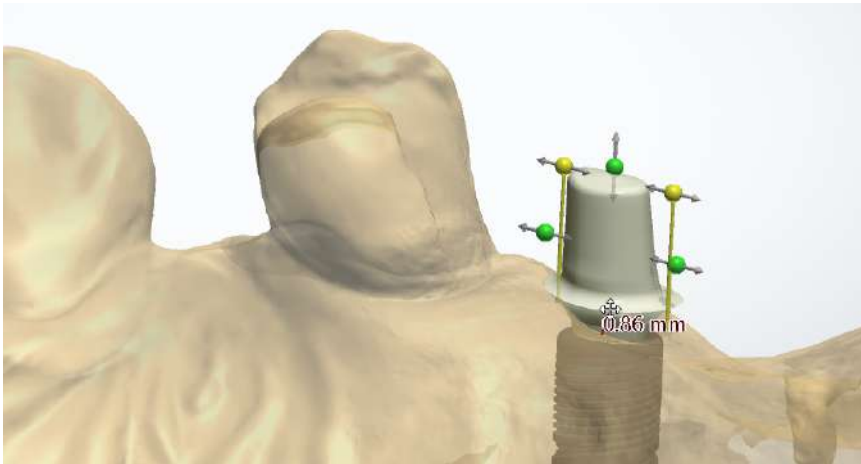




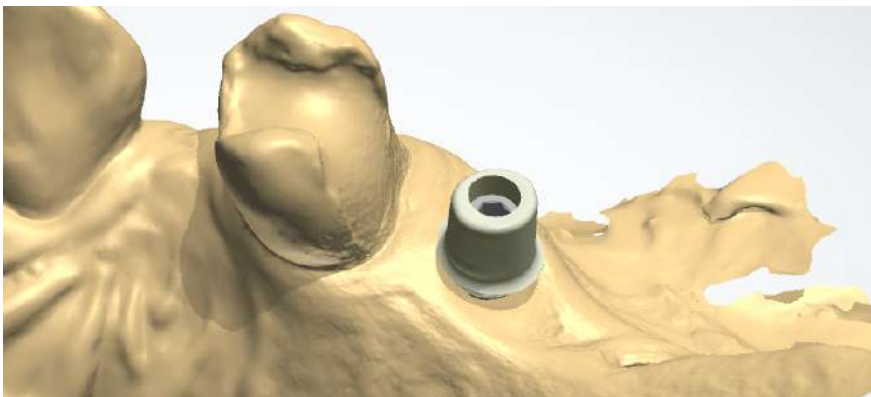
**Step 15.** After the alignment, click **Next** two times, and the abutment's customization mode will open. Note that the abutment shouldn't be in color red to take the next step. If it is not and the shape is corrected, click **Next**.



**Step 16.** Sculpt the abutment and finish by clicking **Next**.



**Step 17.** A hole with the screw shall be seen. Click next and save the model.



 ROOTT library is now available

For question please contact: [dalia.petkeviciute@trate.com](mailto:dalia.petkeviciute@trate.com)

Digital  ROOTT details  
and instruction of use



# Scan Posts

Scan posts indicate the exact position of the implant in the jaw. During the scanning process, the information about the position is transferred into digital format.

ROOTT library has intraoral and extraoral scan posts. The difference between them is size and shape which provide better performance for a particular workflow. The scheme below shows suitable scan posts for a particular implant type. Working on with ROOTT R implants, scan posts (SPCOM, SPCOMIO, SPCOMS, SPCOMIOS) can be used by assembling them with abutments M1 or MS1. Another advantage of digital ROOTT library is that transfer and telescopic abutments of ROOTT C, CS, B, BS implants also can be used as scan posts. These mentioned possibilities create wider applicability of the products.

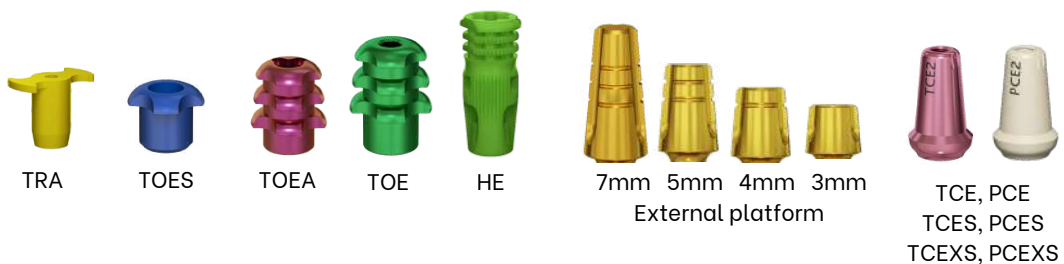
## ROOTT R



## ROOTT M ROOTT P ROOTT S

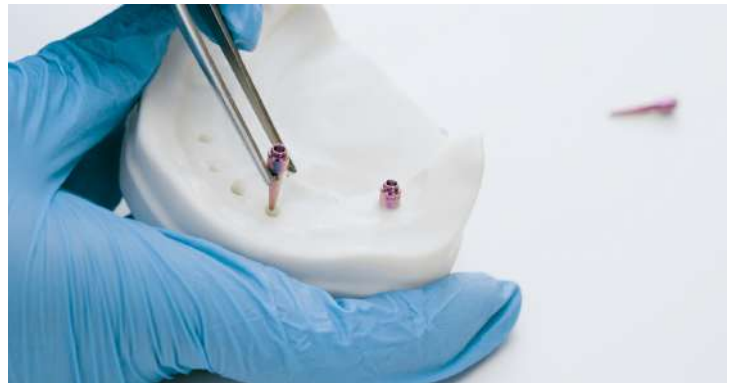


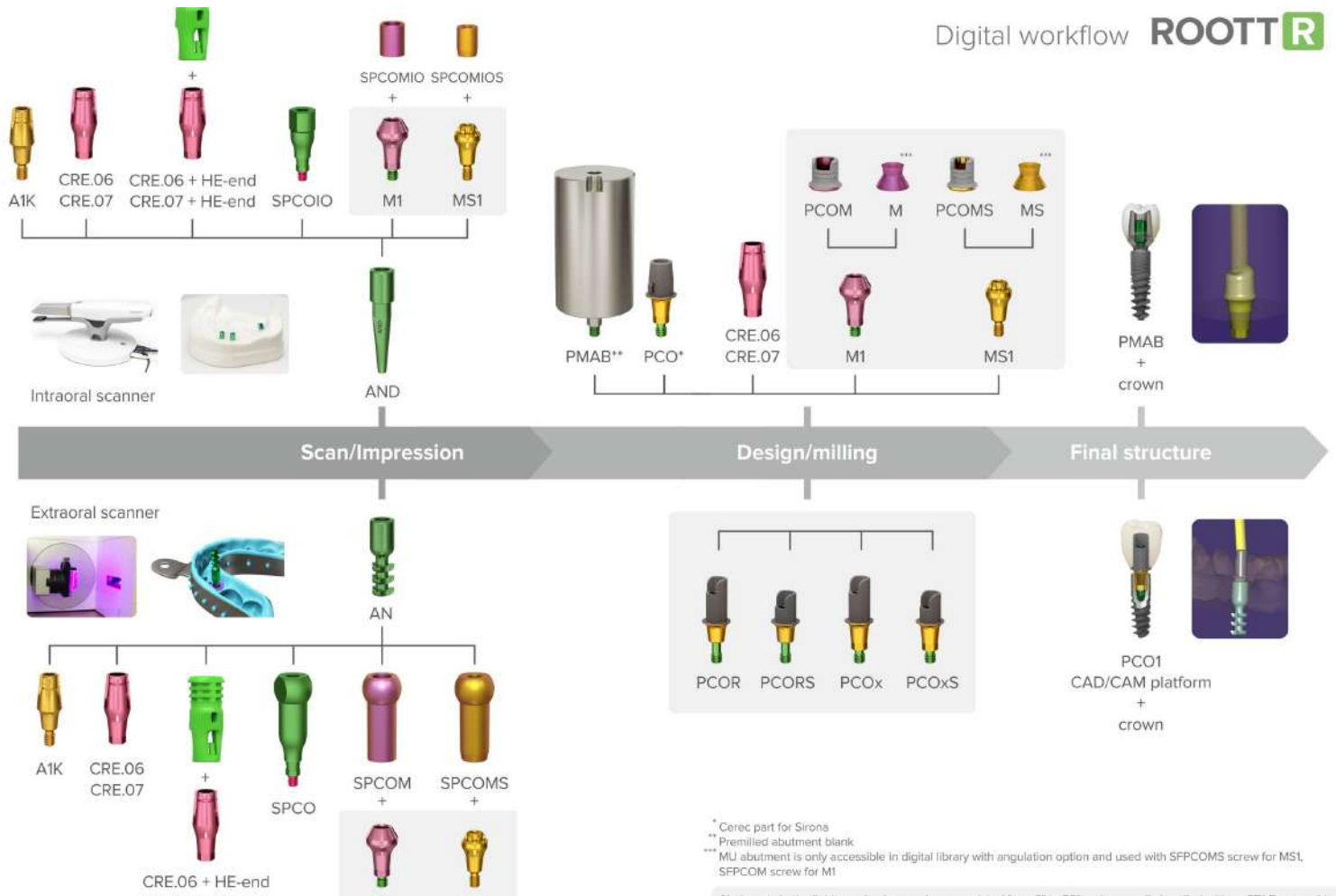
## ROOTT C ROOTT CS ROOTT B ROOTT BS



# Digital analogs

Digital analogs indicate the exact position of the implant in the jaw. Therefore, if the scan post is not screwed properly, it could lead to inaccurate position of digital analog. Digital analogs could be used only with printed models.





# ROOTT R

Scan posts



Scan posts indicate the exact position of the implant in the jaw. During the scanning process, the information about the position is transferred into digital format. According to scan post position, height and direction, scan post is converted to abutment and sets the precise location of analog. Get yourself acquainted with all types of ROOTT R scan posts, which are developed for the effective and precise workflow of implantologists (intraoral) and dental technicians (extraoral).

### SPCO Scan post characteristic

- Extraoral scanning
- Long body allows comfortable usage and precise results of laboratory workflow
- Easily scannable
- Reusable



### SCPOIO Scan post characteristic

- Intraoral scanning
- Short body allows comfortable usage and precise results of implantologists' workflow
- Easily scannable
- Reusable



### SPCOM+M1/ SCPOMS+MS Scan post characteristic

- Extraoral scanning
- Long body allows comfortable usage and precise results of laboratory workflow
- Wider applicability of SPCOM (Scan post for ROOTT M, P implants)
- Easily scannable
- Reusable



### SPCOMIO+M1/ SPCOMIOS+MS1 Scan post characteristic

- Intraoral scanning
- Short body allows comfortable usage and precise results of implantologists' workflow
- Wider applicability of SPCOMIO (Scan post for ROOTT M, P implants)
- Easily scannable
- Reusable



## Abutments

ROOTT R digital abutments are suitable for ordinary and complicated clinical situations. There is a wide range of options for multi-unit and single crown cases.

CRE is a multi-functional part that is made of the same material as an implant and abutment. It is applicable as an abutment for immediate loading, transfer for open/close tray, carrier for implant insertion, or healing abutment.

For multi-unit cases use M1+PCOM or M1 Multi-Unit and for a single crown choose from PCO titanium base.

Pre-milled abutment PMAB is a customizable one-piece abutment for a single crown metal or plastic PEEK framework.

### ROOTT R abutment characteristics

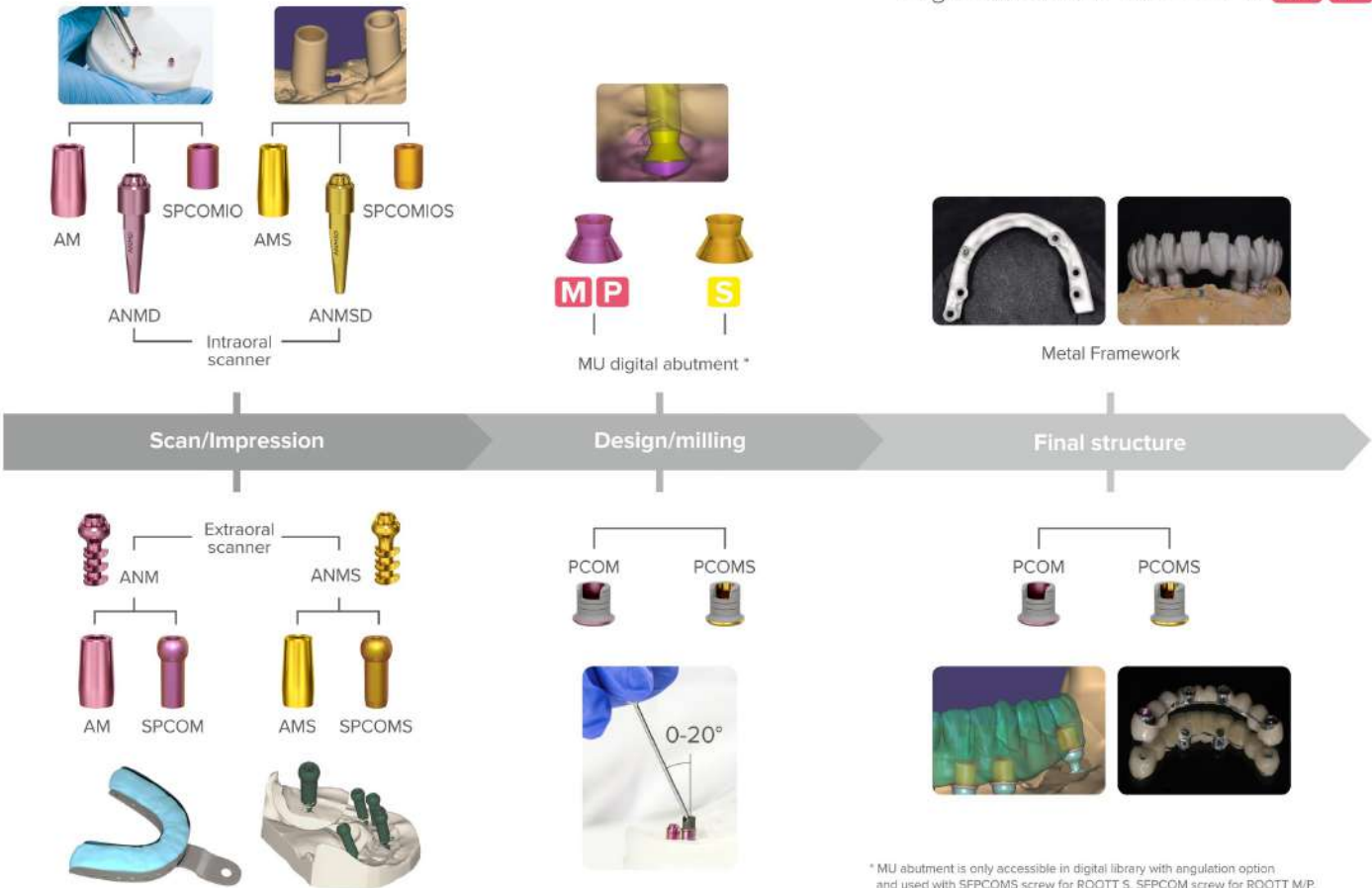
- Angled access for tunnel from 0° to 20°;
- For bridges (PCOR, MS1, M1, CRE,) and single crowns (PCO1-PCO3, PMAB);
- Variety of gingiva part height PCO1-PCO3S;
- Variety of titanium bases height PCO and PCOS.

### PMAB abutment characteristics

- Approved for use with a MEDENTIKA PreFace® Abutment Blank Holders;
- Provides unlimited possibilities to create high precision one-piece customized titanium abutment with an in house milling machine;
- Ideal adjustment for shape, emergence profile, esthetic properties - are available for frequently situation.



Digital workflow **ROOTT M P S**



\* MU abutment is only accessible in digital library with angulation option and used with SFPCOMS screw for ROOTT S, SFPCOM screw for ROOTT M/P.



# ROOTT S

Scan post



ROOTT S Scan-posts corresponds with small multiunit platform connection. Scan-posts indicate the exact position of the implant in the jaw. During the scanning process, the information about the position is transferred into digital format. According to Scan-post position, height and direction, Scan-post is converted to abutment and sets the precise location of analog. Get yourself acquainted with all types of ROOTT S Scan-posts, which are developed for the precise manufacturing of bridge prosthesis.

\*screw-retained restorations with a wide and secure fixation screw



### SPCOMS scan post characteristic

- Extraoral scanning
- Long body allows comfortable usage and precise results of laboratory workflow
- Easily scannable
- Reusable



### SPCOMIOS scan post characteristic

- Intraoral scanning
- Short body allows comfortable usage and precise results of implantologists' workflow
- Easily scannable
- Reusable

# ROOTT M ROOTT P

## Scan posts



ROOTT M Scan posts corresponds with multiunit platform connection. Scan posts indicate the exact position of the implant in the jaw. During the scanning process, the information about the position is transferred into digital format. According to Scan post position, height and direction, Scan-post is converted to abutment and sets the precise location of analog. Get yourself acquainted with all types of ROOTT M Scan posts, which are developed for the precise manufacturing of bridge prosthesis.



### **SPCOM scan post characteristic**

- Extraoral scanning
- Long body allows comfortable usage and precise results of laboratory workflow
- Easily scannable
- Reusable



### **SPCOMIO scan post characteristic**

- Intraoral scanning
- Short body allows comfortable usage and precise results of implantologists' workflow
- Easily scannable
- Reusable

ROOTT **C** ROOTT **CS**  
 ROOTT **B** ROOTT **BS**



Scanable superstructures

ROOTT C, CS, B, BS Scan-post give a wide range of options. There are 45 different ways to scan with intraoral and extraoral scanners - choose from TRA, HE TOEA, TOE, TOES, telescopic abutments or External platform varieties. Scan-posts have a few height options that open possibilities for different clinical cases and patients mouth

Transfers can be used as scan-posts that make workflow more precise and effective. Scan-posts indicate the exact position and the depth of the screwed implant in the jaw. During the scanning process, the information about the position is transferred into digital format. According to Scan-post position, Scan-post is converted to telescopic abutment and sets the precise location of analog. Get yourself acquainted with one-piece abutments which are suitable even for complex clinical cases.



TRA



HE



TOEA



TOE



TOES



External platform  
7, 5, 4, 3 mm



TCE, PCE  
TCES, PCES  
TCEXS, PCEXS



Digital workflow **ROOTT C CS B BS**

