

Step by step



# Screw-retained restorations







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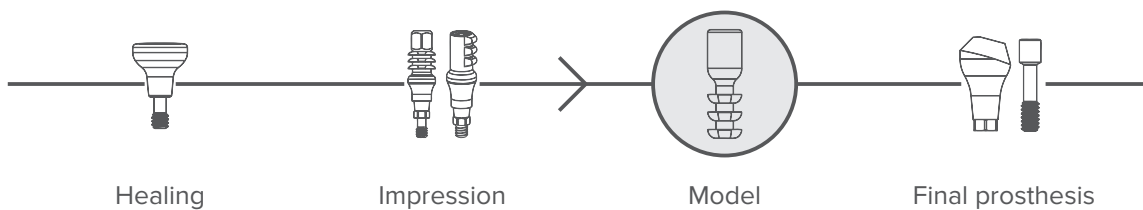
# Important notes

## Meaning of icons

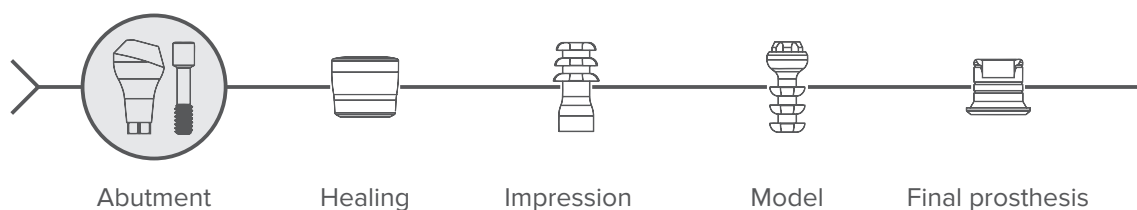
-  Procedure that apply only for single restoration
-  Procedure that apply only for multiple restoration
-  1.25mm hex screwdriver
-  1.25mm ball hex screwdriver

The procedure sequence, as seen below, illustrates the different restorative stages and can be found throughout the manual for easy usage. The stage of the treatment procedure being reviewed is highlighted with color.

## Restoration on implant level



## Restoration on abutment level



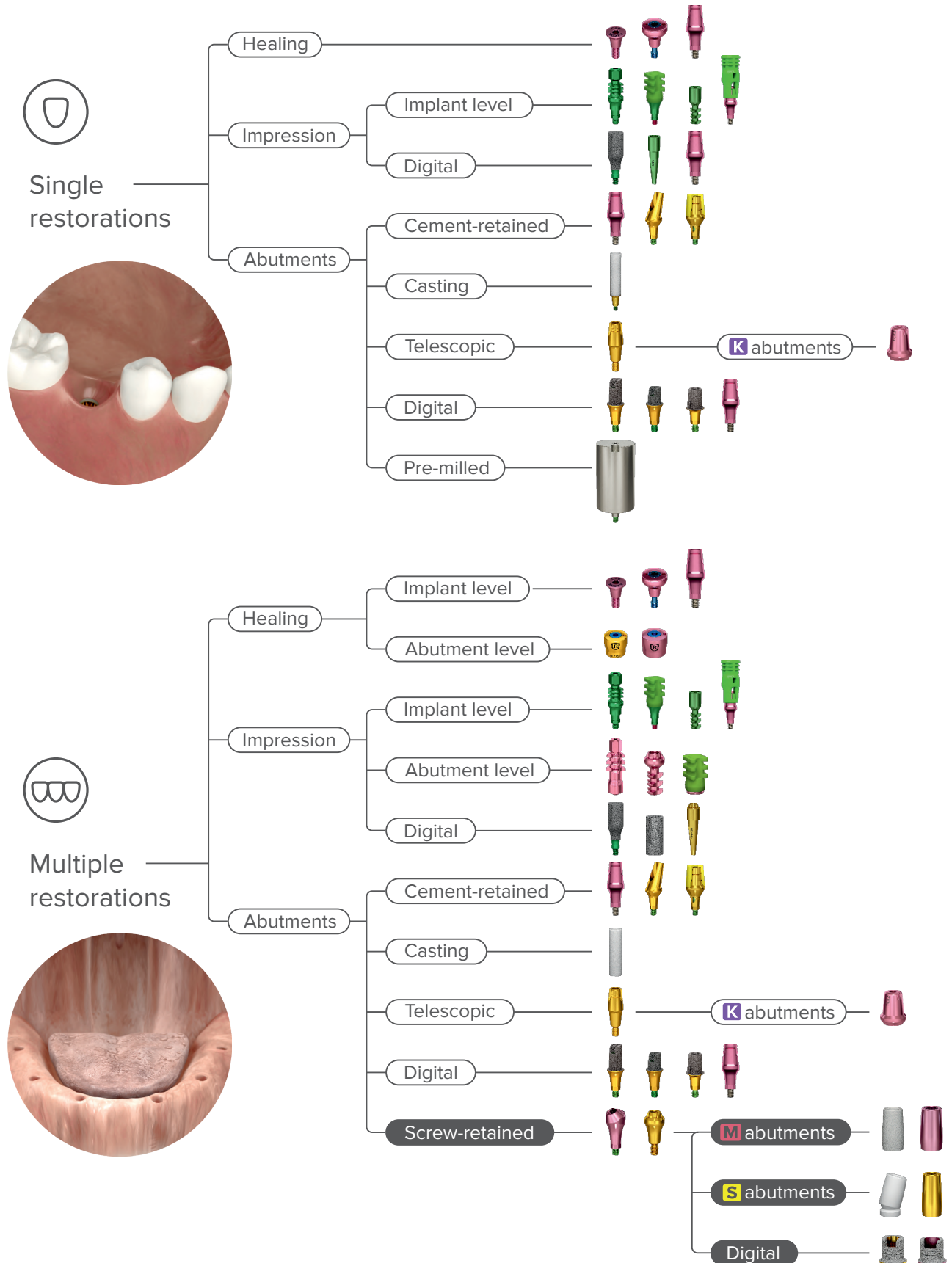
**Clinician steps.** Procedures that apply for prosthodontists are marked red.

**Laboratory steps.** Procedures that apply for technicians in the dental lab are marked green.

## Attention!

1. Never exceed the recommended tightening torque - 15 Ncm for the screw.  
Overtightening of abutment may lead to a screw fracture.
2. Use abutment extractor SR for easier removing ROOTT R healing abutment or abutment.
3. Use pink screw, for laboratory steps.
4. Use green screw, for clinician steps.

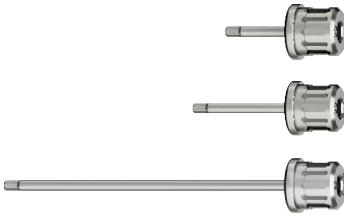

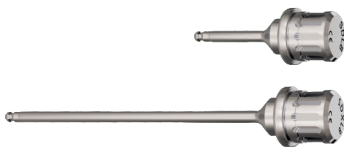

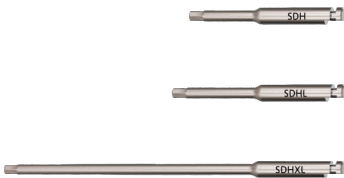






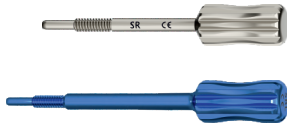

# Prosthetic options





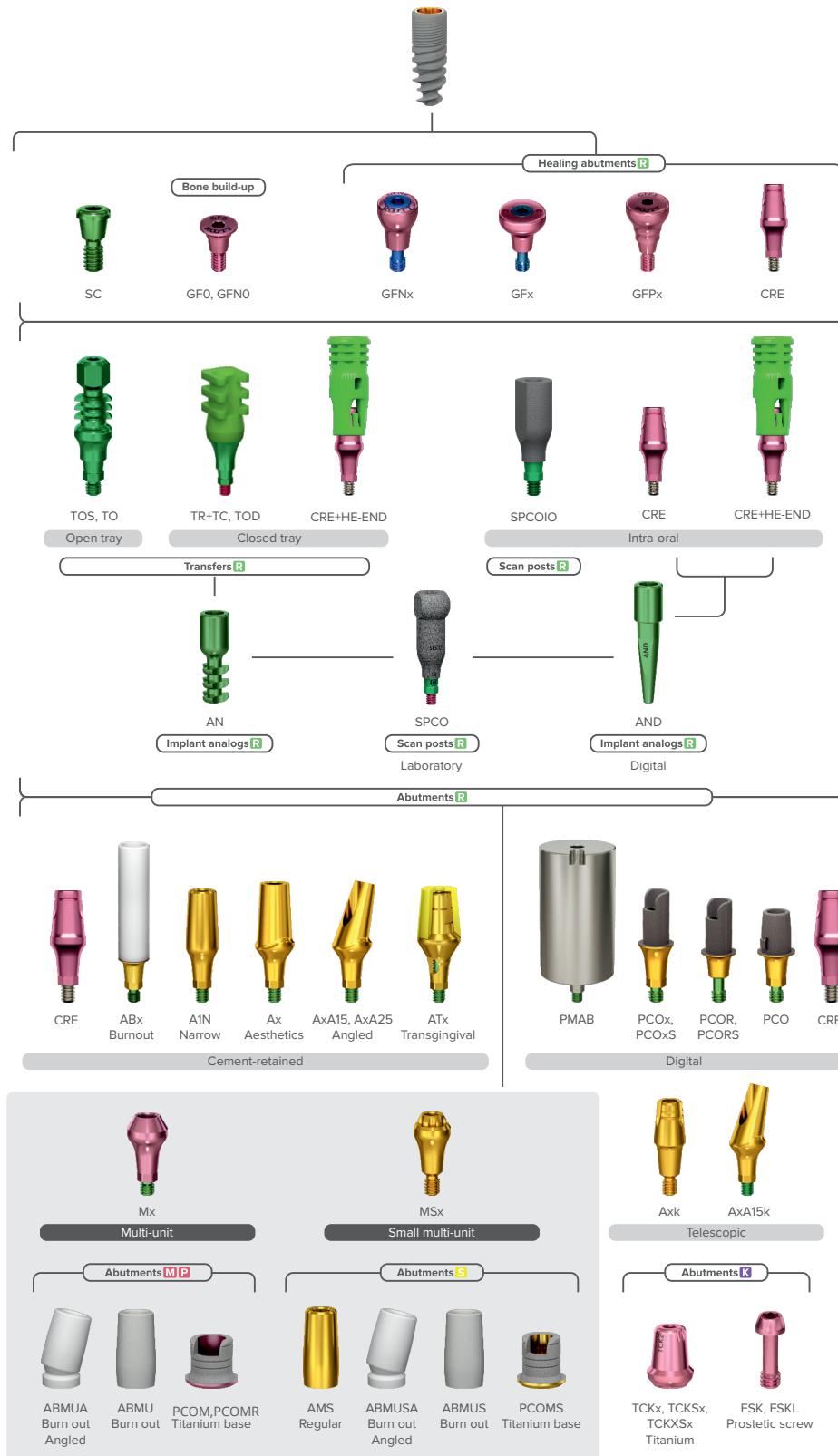
# Instruments

Screwdrivers are used for the fixation of all superstructures.

	<p>SD</p> <p>SDL</p> <p>SDXL</p>	<p><b>For ratchet</b> Recommended torque - 15 Ncm</p>	
	<p>SDLB</p> <p>SDXLB</p>	<p><b>For ratchet, ball point</b> Recommended torque - 15 Ncm Maximal angulation - 20 °</p>	
	<p>SDH</p> <p>SDHL</p> <p>SDHXL</p>	<p><b>For handpiece</b> Recommended speed - 15-20 rpm Recommended torque - 15 Ncm</p>	
	<p>SDM</p> <p>SDML</p>	<p><b>Manual</b> For laboratory use</p>	
	<p>SDAO</p>	<p><b>For AO connection</b></p>	
	<p>ETAO</p>	<p><b>Handle for AO connection</b> For all AO instruments</p>	
	<p>SR</p> <p>SRL</p>	<p><b>Abutment extractors</b> For easier superstructure removing</p>	
	<p>TW50</p> <p>TW70</p>	<p><b>Torque wrench</b> Torque wrench is suitable for all instruments with a head for ratchet. Maximal torque is 50 Ncm or 70 Ncm..</p>	

# Implant level restorations

Implant level describes a restoration connected directly to the implant interface.



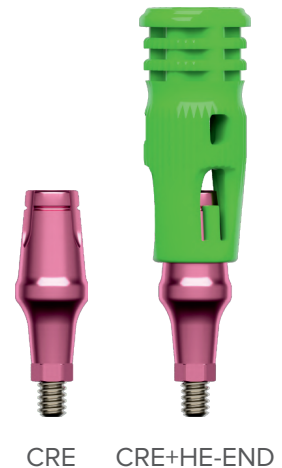
# Additional section about usage of carrier CRE



## Carrier

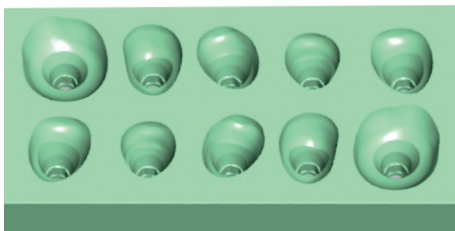
Each ROOTT<sup>®</sup> implant comes with a free multi-functional part (CRE) which is made of the same material as implants & abutments.

- Can be used as a healing abutment, modified with composite.
- Can be used as a scan post.
- Can be used as a temporary or regular abutment.
- With HE-END holder can be used as a closed tray transfer.
- With HE-END holder can be used as a scan post.



## Healing period

### Clinician steps



Make individual healing abutment.  
Use anatomic profile generator bar –  
manufactured or created individual  
using software and 3D printer.  
Use flowable composite to create  
desired healing abutment profile.



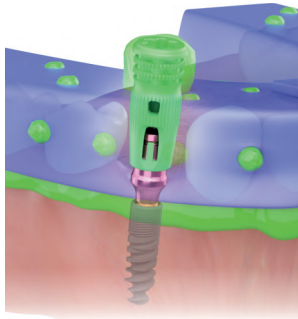
Polish the composite surface.  
Trim CRE part above composite.  
Use as a one stage healing abutment.  
Healing period 3-6 months.

**Note!** For detailed information how to work with healing abutment see on page 10.

## Impression technique



### Clinician steps



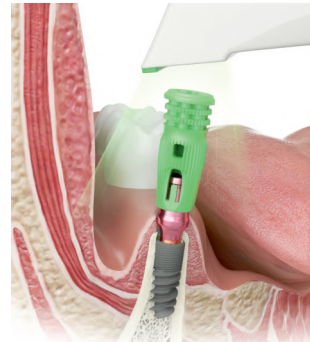
**Closed tray impression technique with HE-END as transfer cap**

Mount holder HE-END on carrier. Inject impression material around the transfer. Fill the impression tray with impression material and seat the impression tray into the mouth. After the impression dry, the impression is removed, HE-END holder stays in the impression.



**Direct scan**

Use CRE carrier as usual intra-oral scan post. Scan with intra-oral scanner. Send files to the laboratory.



**Direct scan via HE-END**

Mount holder HE-END on carrier. Use this combination as a usual intra-oral scan post. Scan with intra-oral scanner. Send files to the laboratory.

### Laboratory steps

#### Laboratory scanning

Use CRE carrier as usual laboratory scan post, separately or in combination with holder HE-END. Scan in the laboratory and send files to the computer.

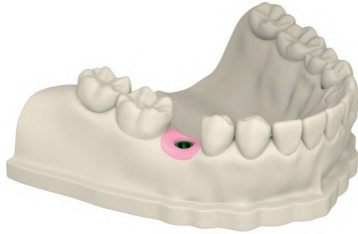


**Note!** For detailed information how to work with transfers and scan posts see on pages 12-13.

## Model



### Laboratory steps



Prepare stone model using standard methods.



Use appropriate libraries to make model. Print created 3D model. Put digital analog inside, put soft tissue on top.

## Healing period



After surgical procedures begins the healing period. Depending on the situation there are two different solutions: one stage surgical technique and two stage surgical technique.

### Cover screw

It is packed with implant, can be find screwed in green holder's HE-body. Used to cover the implant during two stage surgery technique.



SC

### Bone build up screws

Used for bone build up procedure with or without bone graft, to create bone profile.



GF0 GFN0

### Healing abutments, narrow

Used to heal soft tissue and to create emergence profile. Suitable in cases of insufficient space.



GFN2 GFN4 GFN6

### Healing abutments, regular

GF1, GF2, GF3, GF4, GF5, GF6, GF7  
Used to heal soft tissue and to create emergence profile. Color coding.



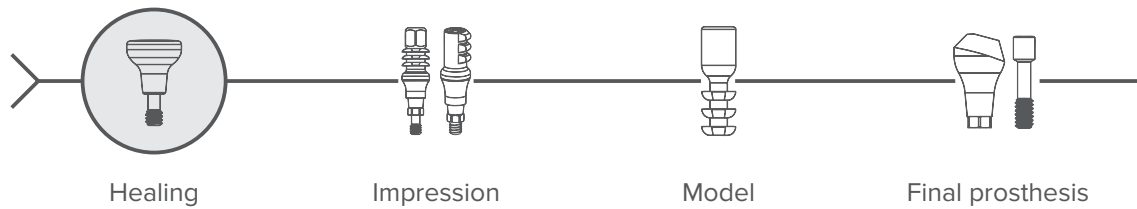
GF1 GF2 GF3 GF4 GF5 GF6 GF7

### Healing abutments, one-piece

Used to heal soft tissue and to create emergence profile. Simple usage. No screw.



GFP3 GFP4 GFP5



## Clinician steps



### Bone build up

Specially designed and developed to create and maintain a space over the implant platform. Will also keep the soft tissue far from the implant platform during the healing and the osseointegration period. Can be used with bone graft or without. The implant should be placed 1 mm under the bone level. Healing period 2 months.



### Two stage surgical technique

In the two-stage surgical procedure, the implant platform is covered with cover screw to prevent tissue overgrowth during the healing phase of the implant and for better osseointegration. Healing time 3-6 months. The implant is uncovered during a second surgical procedure and a healing abutment is placed for soft tissue healing. Healing time 2-4 weeks.



### One stage surgical technique

In a one stage procedure, a healing abutment is placed immediately after implant placement. No need for a second surgery. Healing period 3-6 months. Implant should have good primary stability.

**Note!** Sterilize products before use.

# Impression technique



Implant Impression is an important step accurately relating an analog of the implant to the other structures in the dental arch. Conical connection together with hex allows to transfer the exact position of the implant into the laboratory model. There are a few types of impression technique: open tray, and closed tray (with cap or direct).

## Open tray transfers

Useful in cases of multiple divergent implants, when high accuracy is required.



TO



TOS

## Closed tray transfer, with cap

Is used when there is insufficient clinical height in the distal parts of the upper and lower jaws and when implant axes diverge by up to 20°.



TR+TC

## Closed tray transfer, direct

Useful in cases of limited inter-arch distance.



TOD

## Scan posts

Digital impression is more precise, time saving, no traditional impression needed, less components to handle.



SPCOIO  
Intra-oral



SPCO  
Laboratory

## Implant analogs

Implant analog is necessary for efficient and safe laboratory work. The laboratory receives the impression for fabrication of the model or digital files and produces a working model with removable gingival material.



AN



AND  
Digital analog

## Carrier

With the holder HE-END can be used as a closed tray transfer. Can be used as a scan post. With the holder HE-END can be used as a scan post.

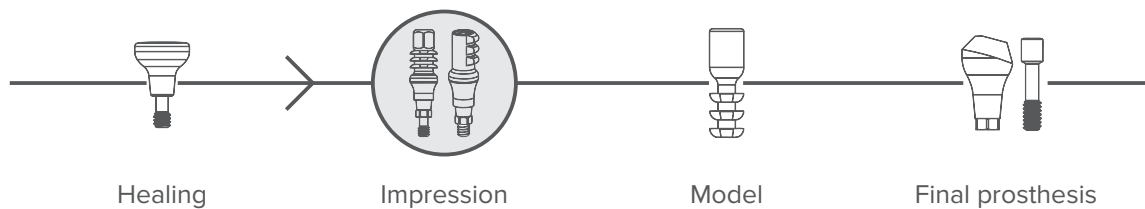


CRE



CRE+HE-END

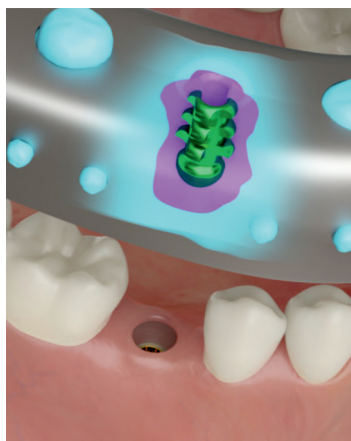




## Impression

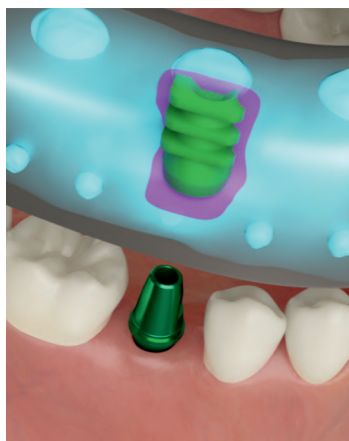


### Clinician steps



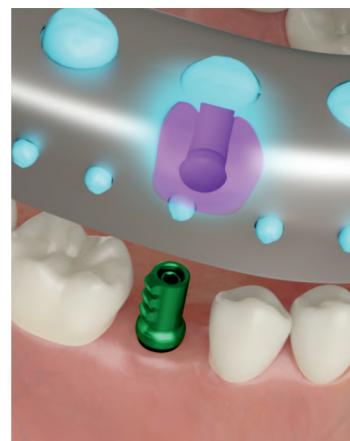
#### Open tray impression technique

Appropriate transfer is placed to implant and screwed by hand. Inject impression material around the transfer. Use an individual impression tray, or make a hole for the screw. Fill the impression tray with impression material and seat the impression tray into the mouth. After the impression dry, the screw is unscrewed and the impression removed. Transfer stays in impression.



#### Closed tray impression technique with transfer cap

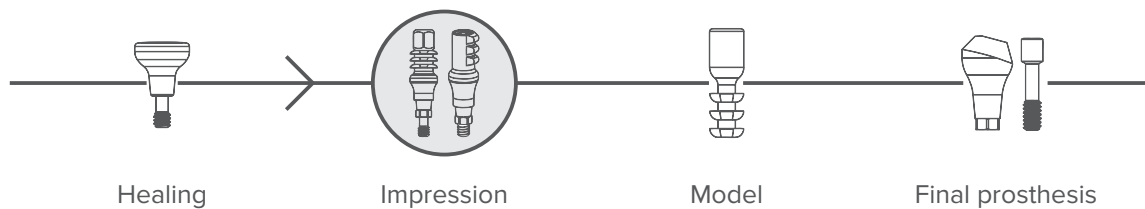
Place appropriate transfer to implant. Tight by hand. Mount TC cap on transfer and push until it clicks. Inject impression material around the transfer. Fill the impression tray with impression material and seat the impression tray into the mouth. After the impression dry, the impression is removed, and the TC cap stays in the impression.



#### Closed tray impression technique, direct method

Place appropriate transfer to implant. Tight by hand. Inject impression material around the transfer. Fill the impression tray with impression material and seat the impression tray into the mouth. After the impression dry, the impression is removed, transfer stays in mouth.

**Note!** Sterilise products before use.



## Scanning

### Scan posts

				
Intra-oral	+	-	+	+
Laboratory	-	+	+	+



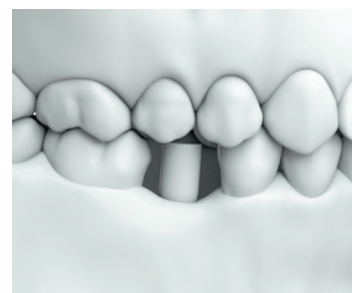
## Clinician steps



Attach intra-oral scan post to implant in patient's mouth. The digital impression is taken directly on the patient using an intraoral scanner. Scan intra-oral scan post.



Scan occlusion. Scan mouth without scan post.

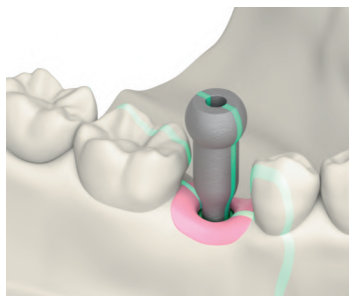


Send files to laboratory.

## Laboratory steps



Take stone model. Attach laboratory scan post to analog.

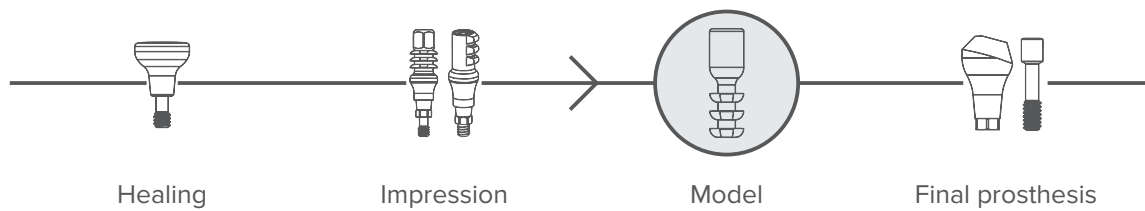


Scan model with scanpost.



Send files to computer.

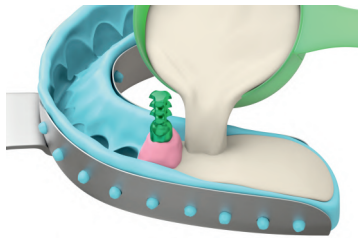
**Note!** For aesthetic reasons make sure that the side with flat surface is facing toward the inner side, there will be abutments screw channel.



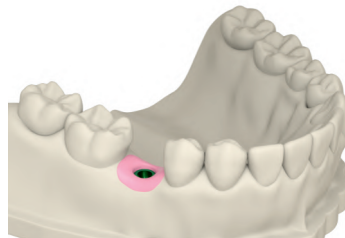
## Model



### Laboratory steps



Attach analog to transfer and put to impression. Inject gingiva mask around analog. Fill impression tray with stone material.



Take off stone model after model hardens. Unscrew transfer's screw and remove from stone model. Stone model is with analog and ready for use.

## Digital

### Laboratory steps



Laboratory receives files.



Use appropriate libraries to make model.



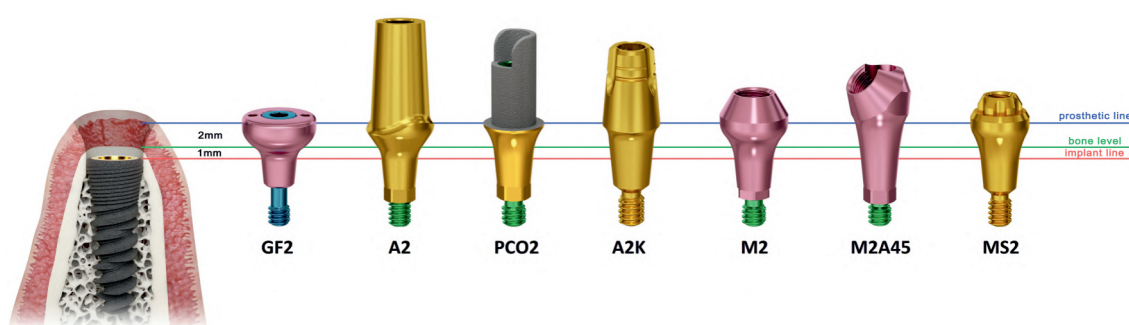
Print created 3D model. Put a digital analog inside, put soft tissue on top.

## Prosthesis



Dental technician selects appropriate abutment, after consultation with the clinician, modifies if needed. Laboratory fabricates a crown with conventional casting technique, veneering the crown.

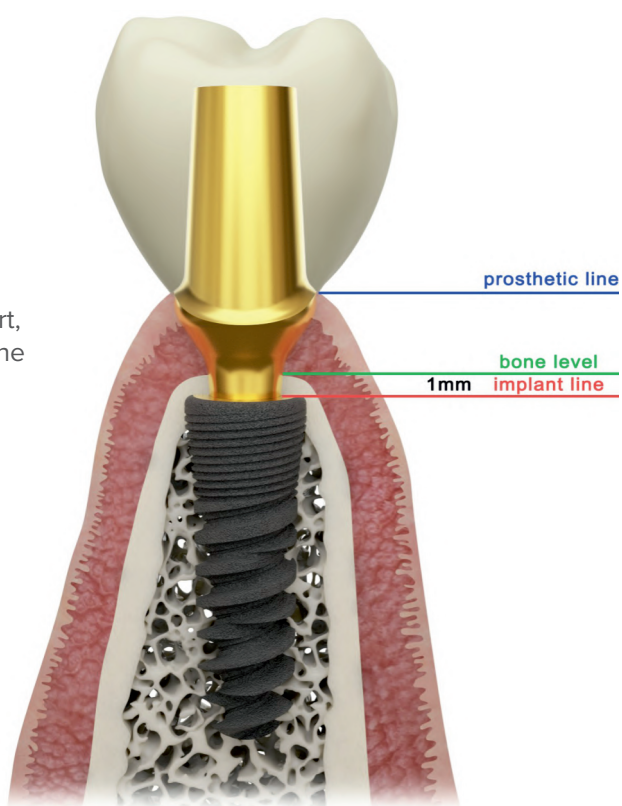
The abutment should be selected in the gingiva height analogous to the healing abutment. A mismatching profile of the structure may result in compression of the gingiva\*.



An abutment is a component that is intermediate between the implant and the restoration.

The abutment provides the retention, support, stability and optimal position necessary for the definitive restoration.

Fixed prosthesis can be cement-retained, screw-retained or telescopic fixation.



\*See Annex 1 for healing abutments and abutments compatibility



## Screw-retained

The screw-retained restoration procedure allows for simple and easy retrieval, and upholding of abutments during routine checkups, with minimal risk of damage to the existing restoration. It is a secure and easy way to maintain a prosthetic restoration.

All abutments are supplied with two screws:  
for laboratory use - pink  
for clinical use - green  
Recommended maximum torque - 15 Ncm

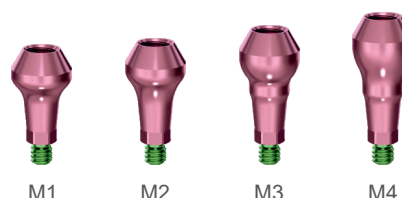


## Implant level

### Abutment, multi-unit

M1, M2, M3, M4

M abutments are used to create multiple unit screw-retained restorations for majority of clinical case due to a wide body of screw which withstand axial loads.



### Abutment, multi-unit, small

MS1, MS2, MS3, MS4

MS abutments are a single body abutments used to create multiple unit screw-retained restorations in areas of insufficient space for wide body screw.

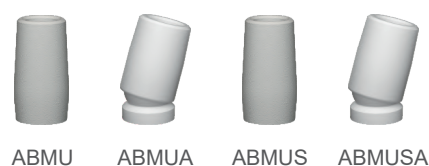


## Abutment level

### Burn-out abutments

ABMU, ABMUA, ABMUS, ABMUSA

The custom castable abutment offers the clinician the option of making a custom metal framework and also can correct angulation.



### Straight abutment for intra-oral welding

AM, AMS

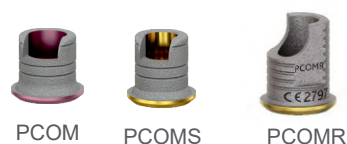
This technique increase precision and eliminates micro movement, consequently improving the overall success rate of immediately loaded, splinted implants. Mostly used for temporary restorations.

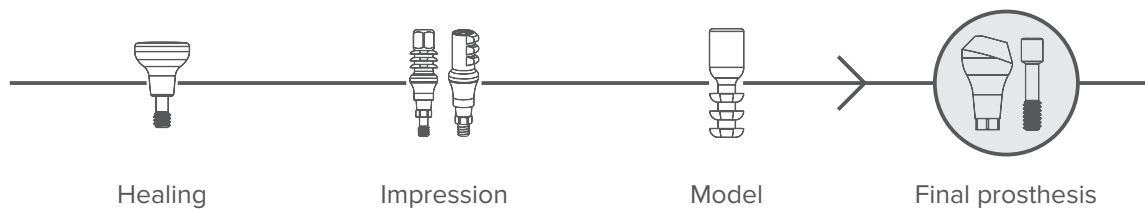


### Abutment, titanium base

PCOM, PCOMS, PCOMR

Titanium base is used for creating multiple restorations with a digital workflow. Angled access for tunnel from 0° to 20°.

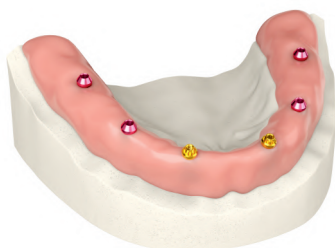




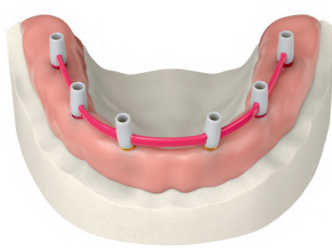
## Burn-out abutments



### Laboratory steps



Connect appropriate multi-unit abutments to analog.



Connect burn-out abutments and fabricate metal frame using standard modeling, casting methods.

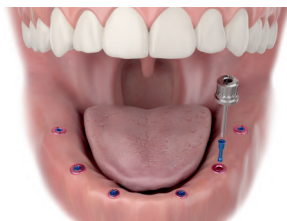


The metal framework is tried in the patient's mouth and corrected if necessary.

### Clinician steps



Porcelain firing is preformed over the metal framework.



Remove one healing abutment at a time and immediately replace it with an abutment.



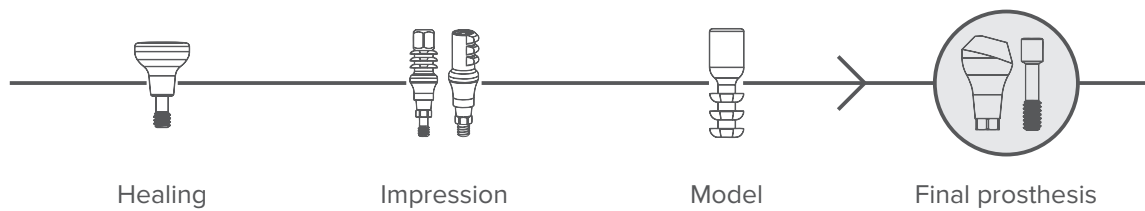
Connect multi unit abutments to implant and hand-tighten using a dedicated screwdriver.



Fix the final restoration to abutments. Screw channel should be filled with composite.

**Note!** Screws for MS platform are a relatively weaker than screws for M platform and have to be used in low load areas.  
Only for multiple restoration.

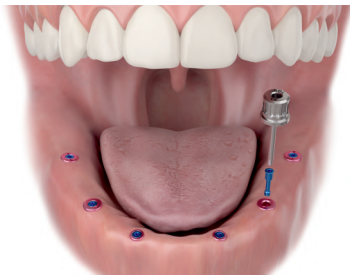




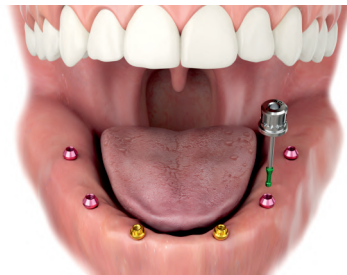
## Intra-oral welding



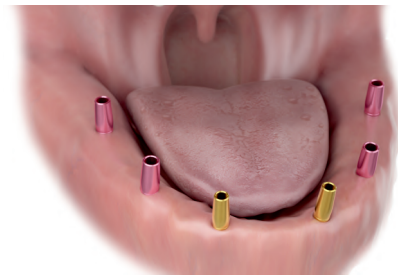
### Clinician steps



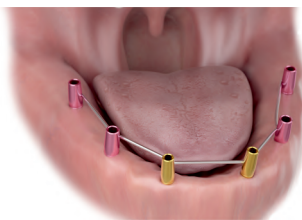
Remove one healing abutment at a time and immediately replace it with an abutment.



Connect multi unit abutments to implant and hand-tighten using a dedicated screwdriver.



Mount on top welding abutments.



Bending, alignment and intraoral welding of titanium wire.



Improve framework as needed.

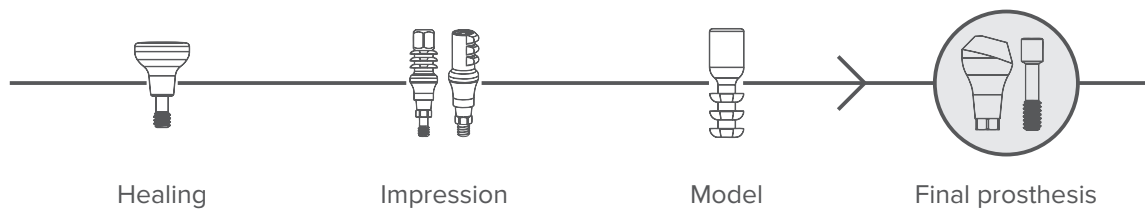


Fabricate prosthesis in the chosen way. Use acrylic resin to fixate prosthesis to the framework in patient mouth.



Remove prosthesis with framework inside. Polish and improve as needed. Screw final restoration.

**Note!** Only for multiple restoration.



## Titanium base abutments



### Libraries

ROOTT digital library enhances dental specialist capabilities. Time-efficient and accurate restorations. Scan implant position, create functional and aesthetic prosthesis. Library folders for ROOTT R names are: Trate\_ROOTT\_R\_(appropriate abutment)\_(material)

### Extraoral/intraoral scan using PCOM, PCOMR, PCOMS

**Step 1.** Upload .stl file to chosen software. Extraoral/intraoral scan posts shall be visible.

**Step 2.** Choose abutment that will replace scan post:

- Implant + abutment, material, e.g. ROOTT R\_MS1\_PCOMS\_zro.
- Abutment, cement gap size in microns, screw channel, e.g. PCOMS 35µm screw channel standard.
- Choose scanned detail and screw channel angle, e.g. PCOMS 35µm Extraoral scan 0°.

**Step 3.** Mark an area to detect scan post position.

**Step 4.** Program will replace scan post to abutment.

**Step 5.** a) Design metal bar/framework using MU digital abutment. Transfer CAD file to milling machine.  
b) Design prosthesis on abutments. Transfer CAD file to milling machine.

## Laboratory steps



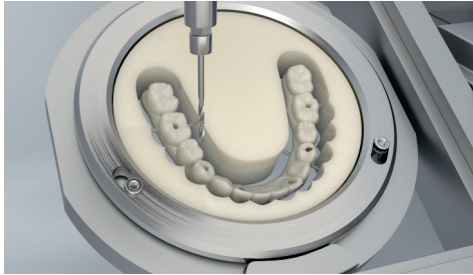
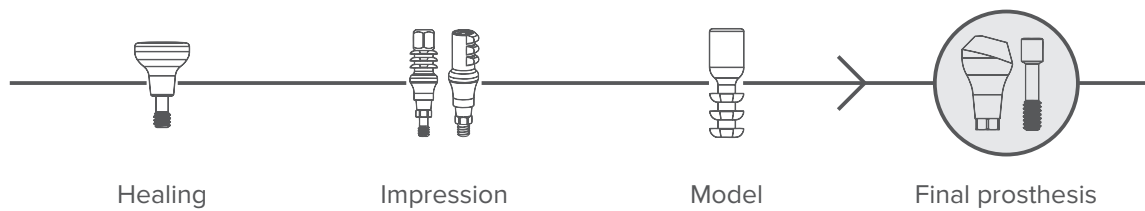
Option a.  
Mill designed metal bar or framework.



Option b.  
Choose raw material for prosthesis and place to milling machine.

**Note!** Only for multiple restoration.





Mill the prosthesis.



Sinter the finished prosthesis according to the recommendations of the raw material producer. Post-process as normal and dye, if required.

## Laboratory steps

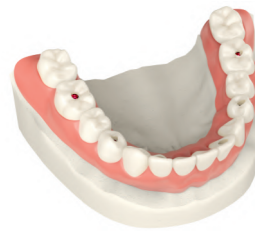
### Option a



Connect appropriate multi unit abutments to analog.



Connect milled metal bar or framework.

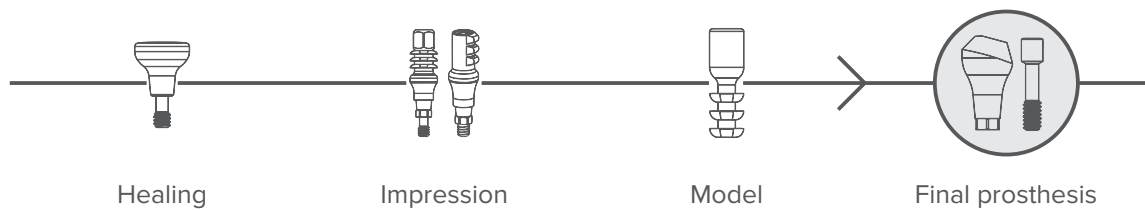


Fabricate prosthesis in the chosen way.



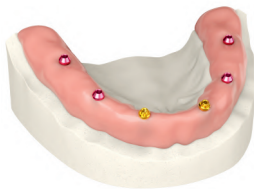
Clean excess cement, polish prosthesis.

**Note!** Only for multiple restoration.



## Laboratory steps

### Option b



Connect appropriate multi unit abutments to analog.



Connect multi unit titanium base to multi unit abutments.

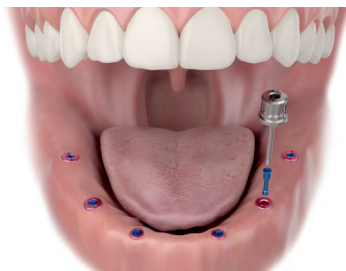


Before cementation, close access holes with filling material. Cement prosthesis to abutments.



Clean excess cement, polish prosthesis.

## Clinician steps



Remove one healing abutment at a time and immediately replace it with an abutment.



Connect multi unit abutments to implant and hand-tighten using a dedicated screwdriver.

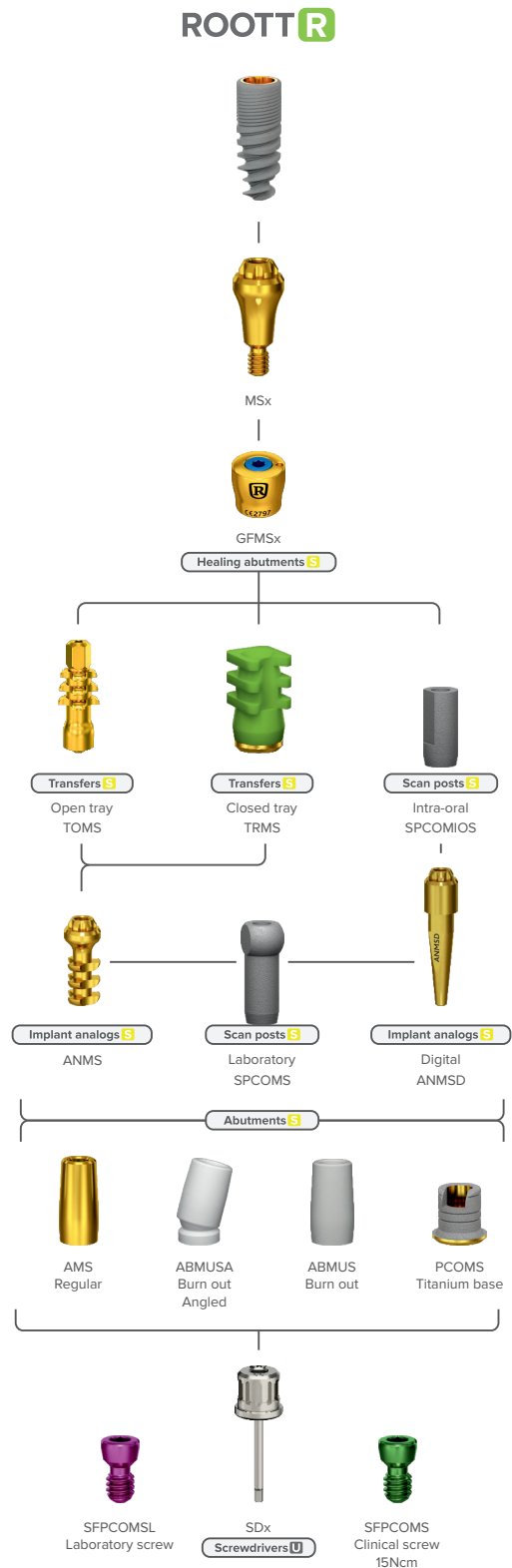
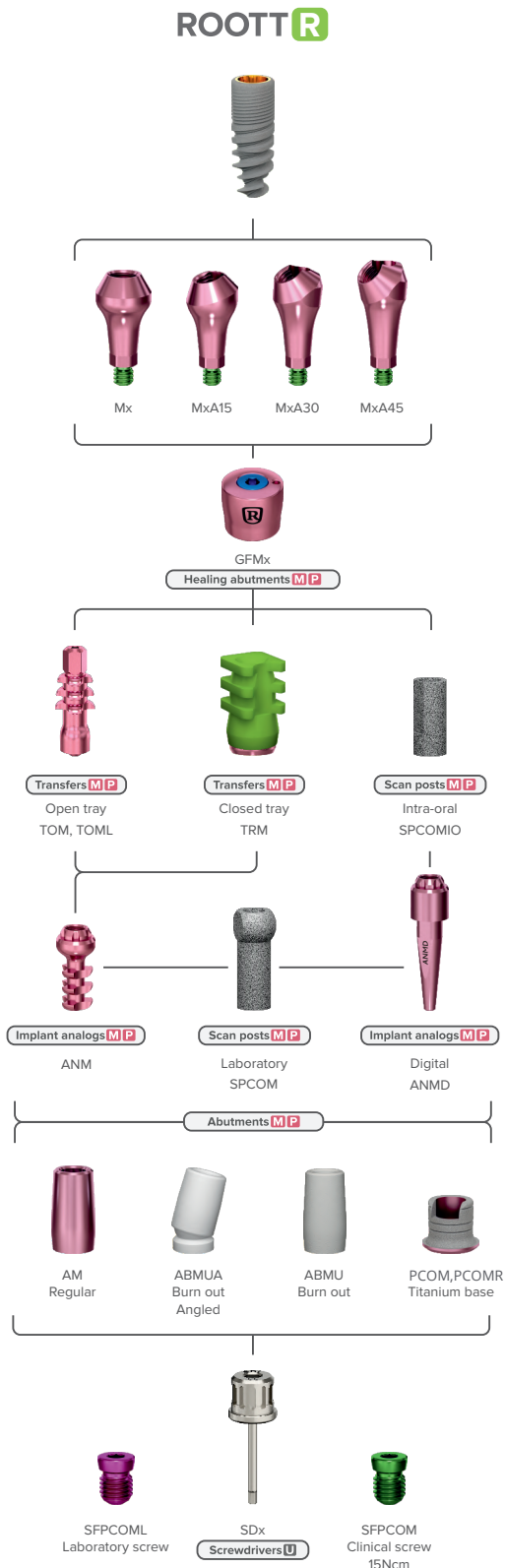


Fix the final restoration to abutments. Screw channel should be filled with composite.

**Note!** Only for multiple restoration.

# Abutment level restorations

Abutment level describes a restoration that will be connected to abutments and will be used two sets of screws.





## Healing period

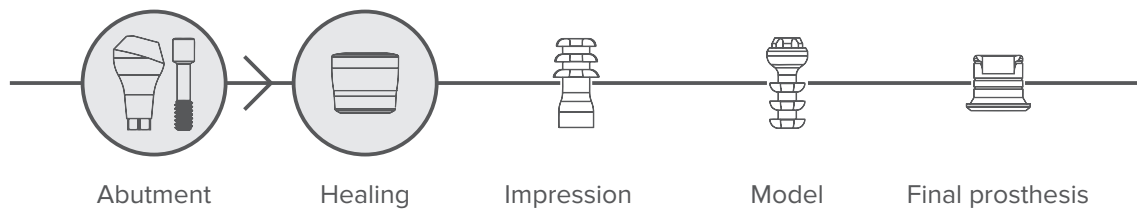
After surgical procedures begins the healing period. Abutment level healing is more precision, less tension on gingiva around prosthesis.

Healing abutments, M implant line  
GFM0, GFM2, GFM4, GFM6  
Used to heal soft tissue and to create emergency profile.  
Pink color - M implant line.  
Different color screws.



Healing abutments, S implant line  
GFMS0, GFMS2, GFMS4, GFMS6  
Used to heal soft tissue and to create emergency profile.  
Gold color - S implant line.  
Different color screws.





## Clinician steps



Connect multi unit abutments to implants and hand-tighten using a dedicated screwdriver.



Screw on abutments appropriate healing abutments. Sew up around and leave for the healing period and osseointegration of the implant. Healing period is around 3 months.



## Impression technique

Implant Impression is an important step accurately relating an analog of the implant to the other structures in the dental arch. For highly precise transfer is recommended that the impression has been taken from abutment level. Use M/S implant line analogs. There are a few types of impression technique: open tray, and closed tray.

### Open tray transfers

TOM, TOMS

Open tray transfers are used in cases where high accuracy is needed



TOM



TOMS

### Closed tray transfer, with cap

TRM+TC, TRMS+TC

Is used when there is insufficient clinical height in the distal parts of the upper and lower jaws and when implant axes diverge by up to 20°.



TRM



TRMS

### Scan posts

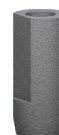
SPCOMIO, SPCOMIOS - intra-oral

SPCOM, SPCOMS - laboratory

Digital impression is more precise, less time needed. For screw-retained technique scan from abutment level, use ROOTT M or ROOTT S intra-oral scan posts or scan laboratory model with laboratory scan posts.



SPCOMIO



SPCOMIOS



SPCOM



SPCOMS

### Implant analog

ANM, ANMS, ANMD, ANMDS

Implant analog is necessary for efficient and safe laboratory work. The laboratory receives the impression for fabrication of the model or digital files and produces a working model with removable gingival material.



ANM



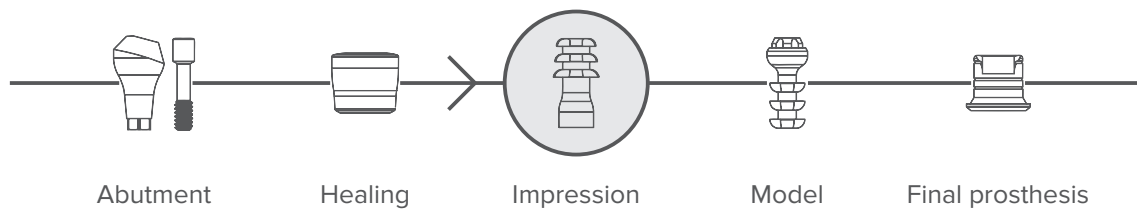
ANMS



ANMD



ANMSD



## Impression



### Clinician steps



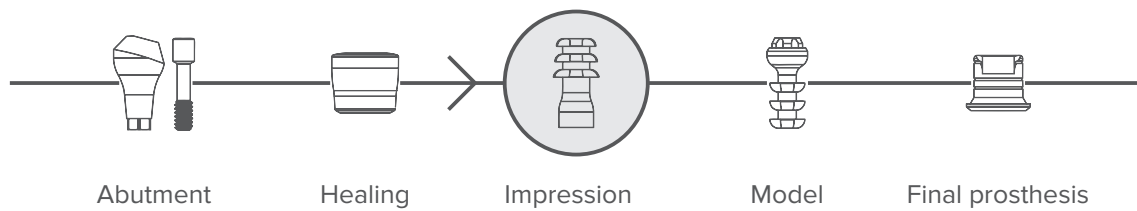
#### Open tray impression technique





Appropriate transfers are placed on multi unit abutments and screwed by hand. After the impression dry, screws are unscrewed and the impression removed. Transfers stay in impression.



#### Closed tray impression technique With transfer cap

Place appropriate transfers on multi unit abutments. Tight by hand. Put TC caps on transfers and push until it clicks. After the impression dry, the impression is removed, TC caps stay in the impression.



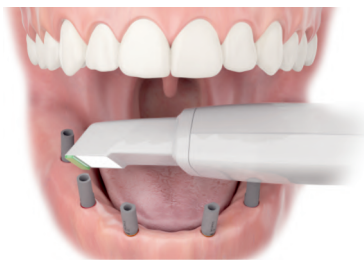
				
Scan posts	Mx(Ax)+SPCOMIO	MSx+SPCOMIOS	Mx(Ax)+SPCOM	MSx+SPCOMS
Intra-oral	+	+	-	-
Laboratory	-	-	+	+

## Scanning

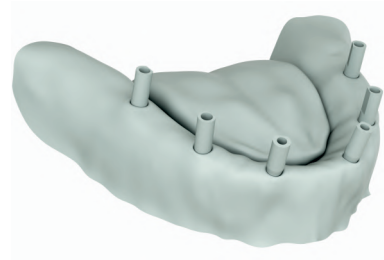
### Clinician steps



Attach intra oral scan posts to implants in the patient's mouth. The digital impression is taken directly on the patient using an intraoral scanner.

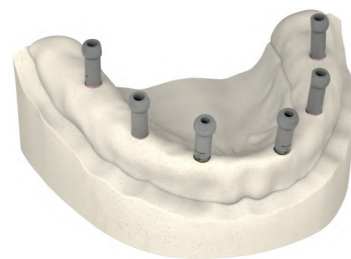


Scan scan posts, occlusion and mouth without scan posts.



Send files to the laboratory.

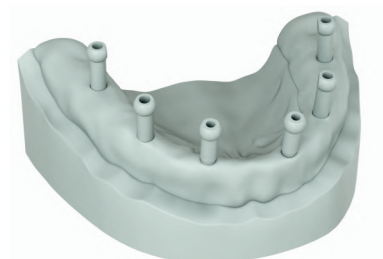
### Laboratory steps



Take a stone model. Attach laboratory scan posts to analogs.

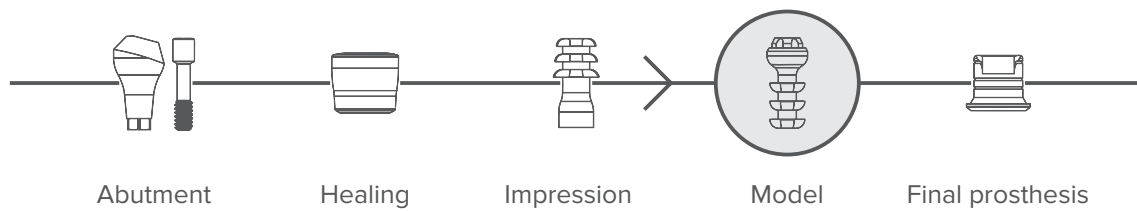


Scan model with scan posts.



Send files to the computer.



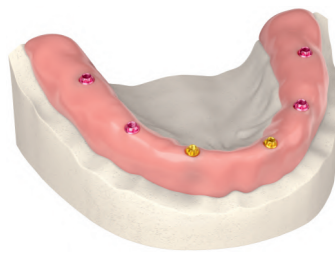


## Model

### Laboratory steps



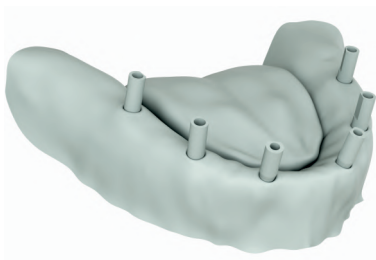
Attach analogs to transfers and put to impression. Inject gingiva mask around analog. Fill impression tray with stone material.



Take off stone model after model hardens. Unscrew all transfer's screws and remove from stone model. Stone model is with analogs and ready for use.

## Digital

### Laboratory steps



Send files to the laboratory.



Use appropriate libraries to make model.



Print created 3D model. Put digital analogs inside.



# Prosthesis

## Screw-retained

The screw-retained restoration procedure allows for simple and easy retrieval, and upholding of abutments during routine checkups, with minimal risk of damage to the existing restoration. It is a secure and easy way to maintain a prosthetic restoration.

All abutments are supplied with two screws:  
for laboratory use - pink, for clinical use - green  
Recommended maximum torque - 15 Ncm

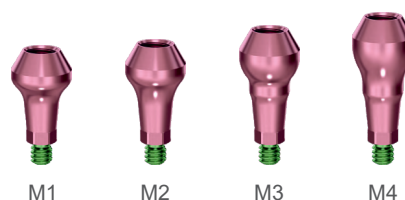


## Implant level abutments

### Abutment, multi-unit

#### M1, M2, M3, M4

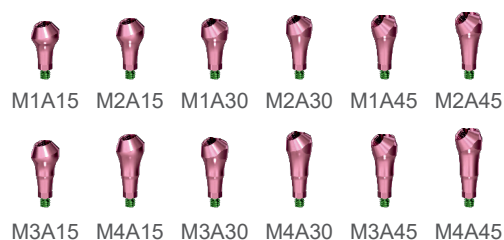
M abutments are used to create multiple unit screw-retained restorations for majority of clinical case due to a wide body of screw which withstand axial loads.



### Abutment, multi-unit, 15°, 30°, 45°

M1A15A, M2A15A, M3A15A, M4A15,  
M1A30, M2A30, M3A30, M4A30,  
M1A45, M2A45, M3A45, M4A45

Angled multi-unit abutments allow inserting ROOTT R type implants at a wider range of angles.



### Abutment, multi-unit, small

#### MS1, MS2, MS3, MS4

MS abutments are a single body abutments used to create multiple unit screw-retained restorations in areas of insufficient space for wide body screw.

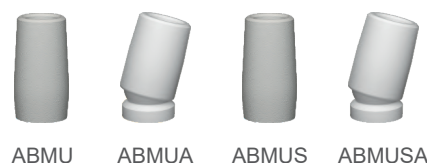


## Abutment level abutments

### Burn-out abutments

ABMU, ABMUA, ABMUS, ABMUSA

The custom castable abutment offers the clinician the option of making a custom metal framework and also can correct angulation.



### Straight abutment for intra-oral welding

#### AM, AMS

This technique increases precision and eliminates micro movement, consequently improving the overall success rate of immediately loaded, splinted implants. Mostly used for temporary restorations.

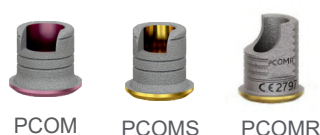


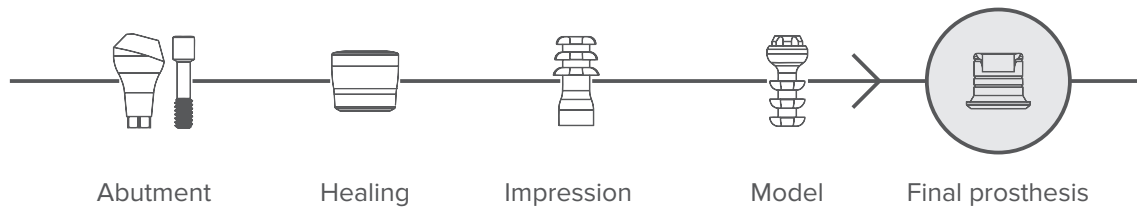
### Abutment, titanium base

PCOM, PCOMS, PCOMR

Titanium base is used for creating multiple restorations with a digital workflow.

Angled access for the tunnel from 0° to 20°.

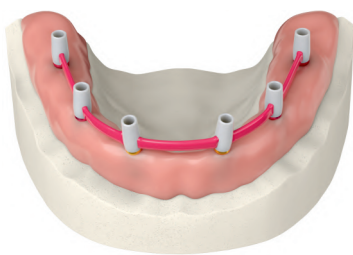




## Burn-out abutments



### Laboratory steps



Connect burn-out abutments to implant analog. Fabricate metal frame from burn-out abutments using standard modelling, casting methods.



The metal framework should be tried in the patient's mouth and corrected if necessary.



Porcelain firing is performed over the metal framework.

### Clinician steps

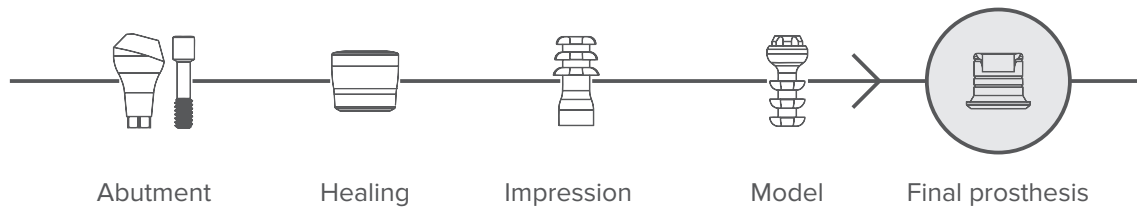


Remove healing abutments.



Fix the final restoration to abutments. Screw channel should be filled with composite.

**Note!** Screws for MS platform are a relatively weaker than screws for M platform and have to be used in low load areas.



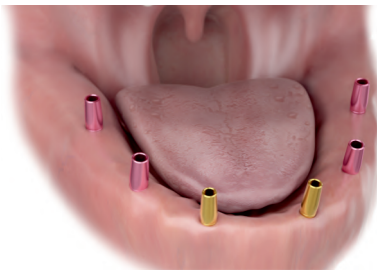
## Intra-oral welding



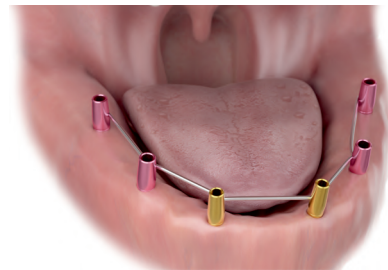
### Clinician steps



Remove healing abutments.



Mount on top welding abutments.



Bending, alignment and intraoral welding of titanium wire. Improve framework as needed.



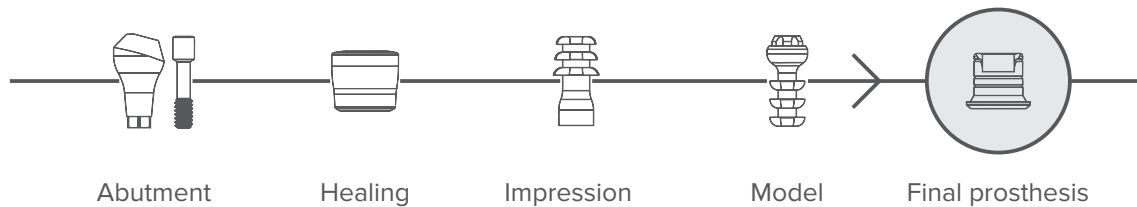
Fabricate prosthesis in the chosen way. Use acrylic resin to fixate prosthesis to the framework in the patient mouth.



Remove the prosthesis with the framework inside. Polish and improve as needed.



Screw final restoration.



## Titanium base abutments



### Libraries

ROOTT digital library enhances dental specialist capabilities. Time-efficient and accurate restorations. Scan implant position, create functional and aesthetic prosthesis. Library folders for ROOTT R names are: Trate\_ROOTT\_R\_(appropriate abutment)\_(material)

### Extraoral/intraoral scan using PCOM, PCOMR, PCOMS

**Step 1.** Upload .stl file to chosen software. Extraoral/intraoral scan posts shall be visible.

**Step 2.** Choose abutment that will replace scan post:

- Implant + abutment, material, e.g. ROOTT R\_MS1\_PCOMS\_zro.
- Abutment, cement gap size in microns, screw channel, e.g. PCOMS 35µm screw channel standard.
- Choose scanned detail and screw channel angle, e.g. PCOMS 35µm Extraoral scan 0°.

**Step 3.** Mark an area to detect scan post position.

**Step 4.** Program will replace scan post to abutment.

**Step 5.** a) Design metal bar/framework using MU digital abutment. Transfer CAD file to milling machine. Design prosthesis on created metal bar/framework. Transfer CAD file to milling machine;

b) Design prosthesis on abutments. Transfer CAD file to milling machine.

## Laboratory steps

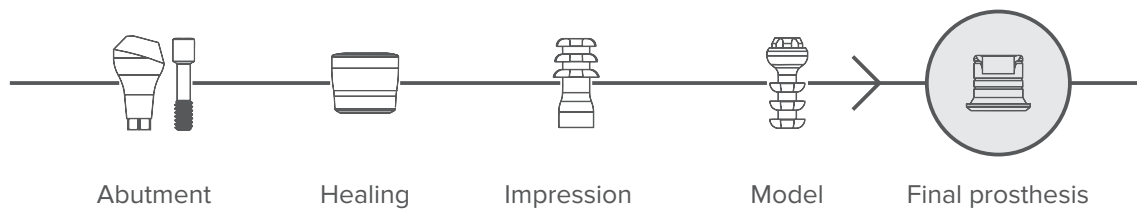


Option a.  
Mill designed metal bar or framework.

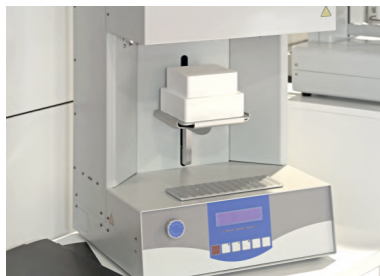


Option b.  
Choose raw material for prosthesis and place to milling machine.

**Note!** Only for multiple restoration.



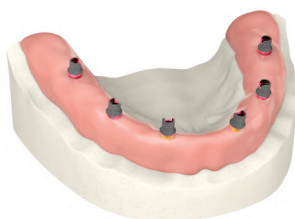
Mill the prosthesis.



Sinter the finished prosthesis according to the recommendations of the raw material producer. Post-process as normal and dye, if required.

## Laboratory steps

### Option a



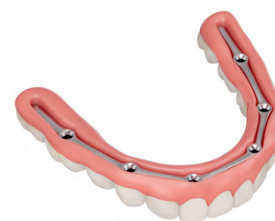
Connect multi unit titanium base to multi unit abutments.



Connect milled metal bar or framework to implant analogs.

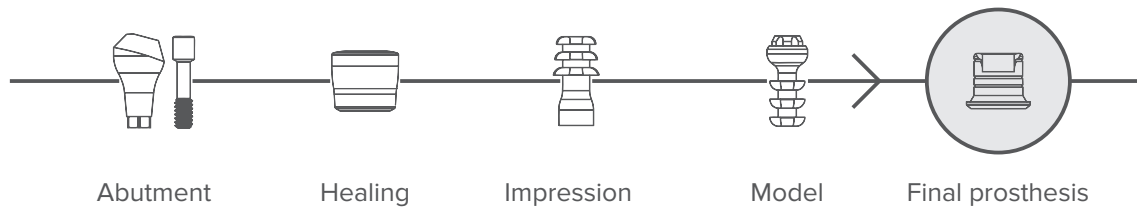


Cement prosthesis to metal bar or framework. Don't forget before cementation to close access holes with filling material.



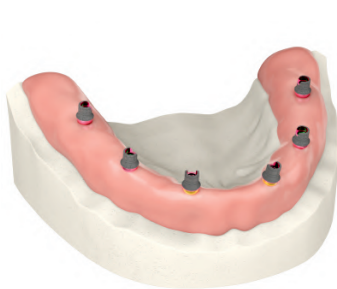
Clean excess cement, polish prosthesis.





## Laboratory steps

### Option b



Connect multi unit titanium base to multi unit abutments.

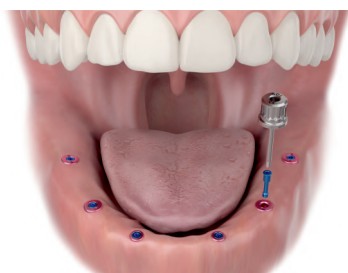


Before cementation, close access holes with filling material.  
Cement prosthesis to abutments.



Clean excess cement, polish prosthesis.

## Clinician steps




Remove one healing abutment.



Fix the final restoration to abutments. Screw channel should be filled with composite.

# Compatibility

## healing abutments with abutments

Healing abutments	Abutments
 GF1	 M1  M1A15  M1A30  M1A45
 GF2	 M2  M2A15  M2A30  M2A45
 GF3	 M3  M3A15  M3A30  M3A45
 GF4  GF5  GF6  GF7	 MA4  M4A15  M4A30  M4A45
 GFP3	 M3  M3A15  M3A30  M3A45
 GFP4  GFP5	 M4  M4A15  M4A30  M4A45
 GFN2	 MS1  MS2
 GFN4	 MS3  MS4



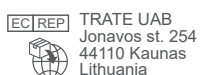


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