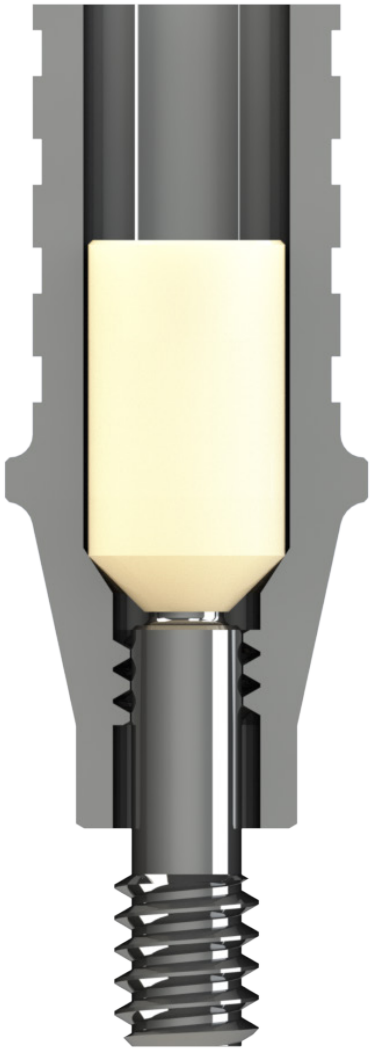
SimpleTemp

from

SmartOnX



Technique Manual

Screw-Retained Crown and Bridge Temporary Restorations with Separable Fastener Technology

SmartOnX.com/SimpleTemp

Overview

The SimpleTemp system combines titanium temporary abutments with Smart On X's Separable Fastener screw technology to streamline fabrication of screw-retained temporary restorations for single units and multi-unit bridges. This approach offers flexibility for both **chairside and laboratory** workflows.

Indications

- Single-unit provisionals
- Short-span bridges, long-span bridges, and full-arch bridges

Advantages

- Retrievability without large access holes (Separable Fastener disengages head from Threaded Post)
- Stronger temporaries with preserved bulk
- Chairside or laboratory workflow flexibility
- Reduced chairside time compared to conventional methods

Required SimpleTemp Components

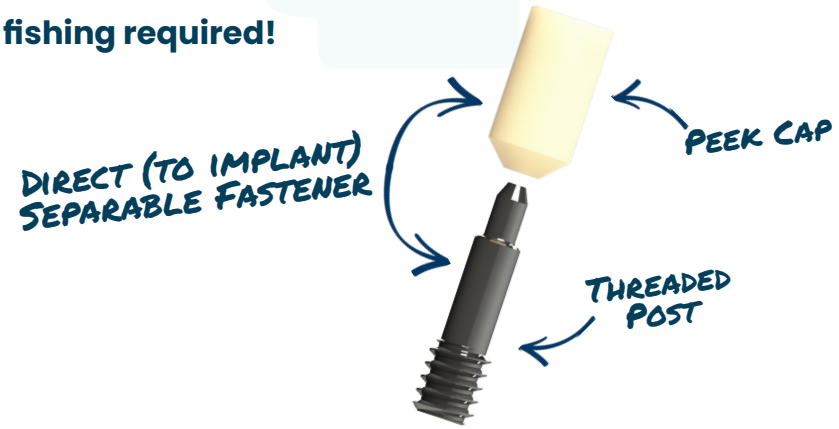
- Direct Separable Fastener
- Cementation Aid for Threaded Post removal (included with Direct Separable Fastener!)
- Low Torque Driver

Standard Provisional Components

- Titanium temporary abutments (engaging or non-engaging)
- #8 Round Bur for Screw Channel Access Hole
- Abutment prepping handle
- Torque wrench
- Bis-acryl or flowable composite resin
- Carbide Burs and handpiece
- Polishing burs and finishing materials

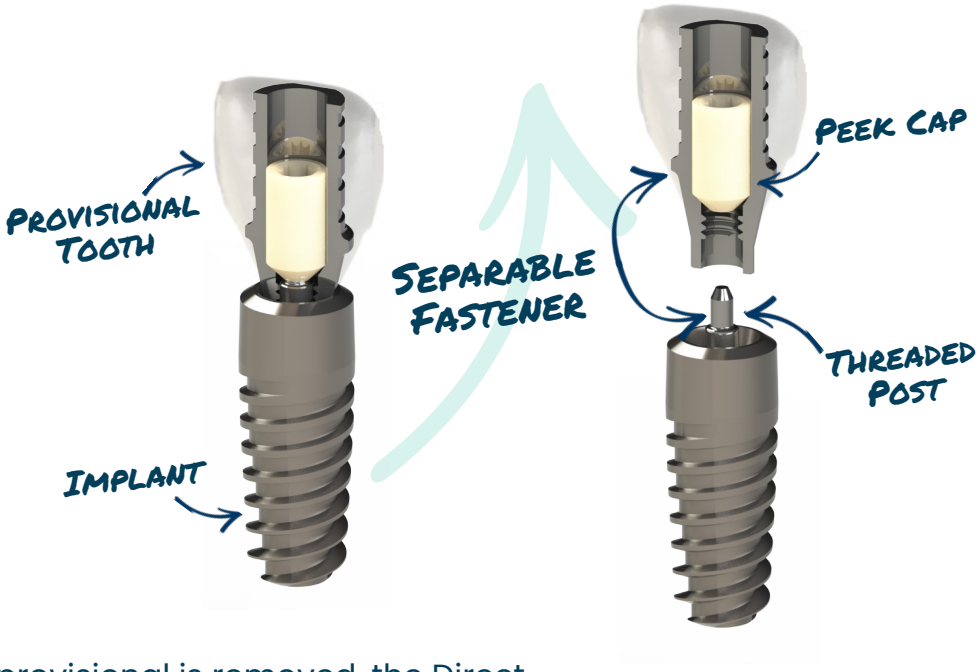
Smart On X takes a smarter approach. Using our patented **Separable Fastener technology**, it allows you to pick up the Temporary Abutment inside the Crown or Bridge – allowing for a closed tray pickup. The result is an easier workflow, smaller holes, and stronger provisionals.

No intra-oral fishing required!

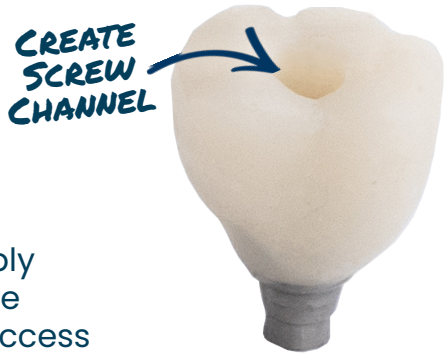


How it Works

The Direct (to Implant) Separable Fastener is inserted into the Temporary Abutment. Together, they are placed into the implant and picked up into the crown or bridge as one unit.



As the provisional is removed, the Direct Separable Fastener does exactly what its name suggests–it separates. The PEEK Cap and Temporary Abutment are captured inside the provisional, while the Threaded Post stays behind in the implant.



Now that the provisional is outside the mouth, simply create the screw access hole down to the top of the abutment. This allows you to get clean, accurate access holes–right where you need them: **all outside the mouth.**

Follow your preferred protocol to contour, polish, and deliver. That's it–provisional complete.

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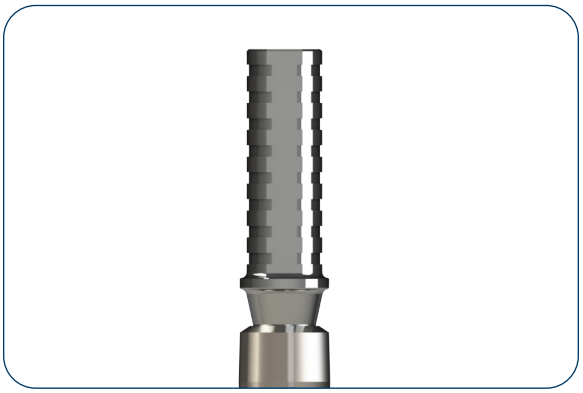
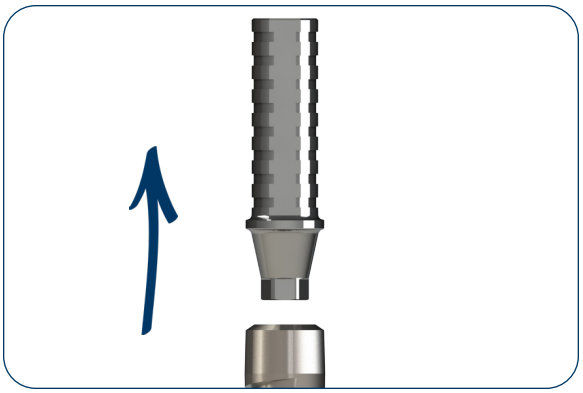
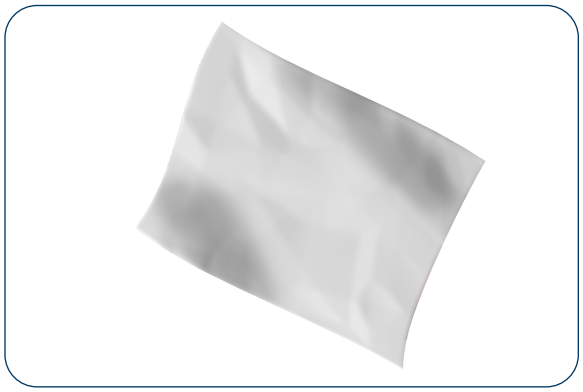
(A) Preparation



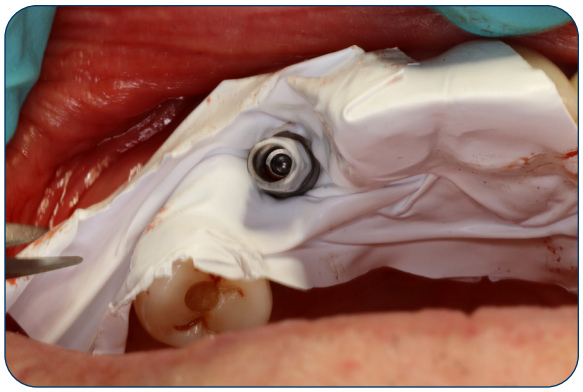
1 Seat the temporary abutment in the patient's mouth or on the master cast and hand-tighten with the abutment screw. Assess for occlusal clearance and mark the appropriate height according to the situation.



2 Loosen the abutment screw and remove the abutment from the implant. Adjust the abutment as necessary



Pro tip: Cut a piece of PTFE (Teflon) large enough to block the surgical field and cover adjacent teeth. This can mitigate the chance of the provisional engaging the undercuts of the adjacent teeth.

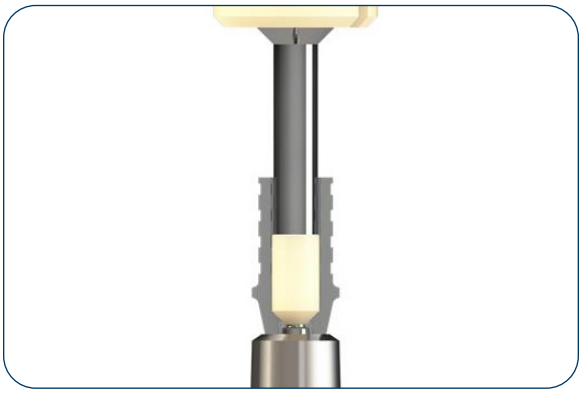


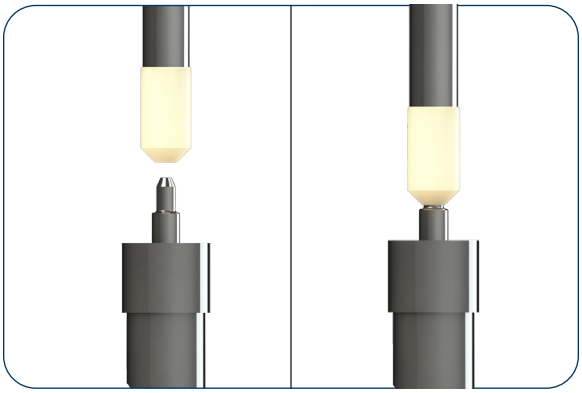
3 Hand-tighten the abutment to the implant **through** the Teflon tape with the abutment screw. Verify seating with periapical radiograph or inspect clinically.

4 Remove the abutment screw and insert a compatible Direct Separable Fastener and tighten with a Low Torque Driver. Temporarily seal the screw channels (e.g. wax, PTFE, or gutta-percha).

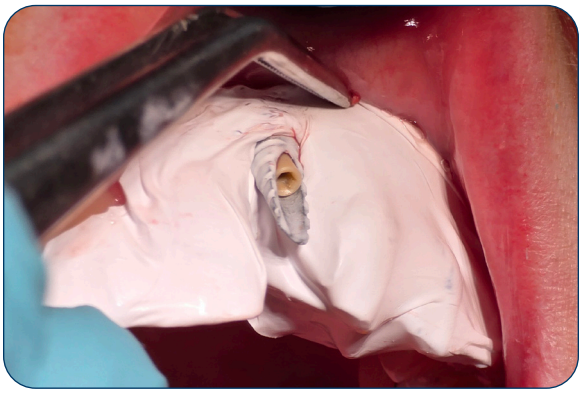
Note: Verify that the abutment is fully seated.

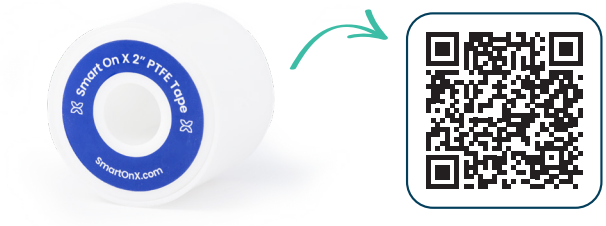
Note: If the Temporary Abutment becomes loose, this indicates that the Direct Separable Fastener has separated. To correct this, remove the Temporary Abutment carefully, ensuring that the PEEK Cap does not fall out. Press a Cementation Aid or Retrieval Tool over the unthreaded end of the Threaded Post and unscrew it from the implant. Thread the post into an implant analog and remove the Cementation Aid, leaving the Threaded Post in place. Place the PEEK Cap on the end of the Low Torque Driver and press the Threaded Post back into the small hole in the PEEK Cap. Then return to step 3 to continue the procedure.





5 Adapt Teflon tape to the adjacent teeth and shape the Teflon contacting the gingiva to your desired emergence profile. Burnish the contact areas of the Teflon on the adjacent teeth.

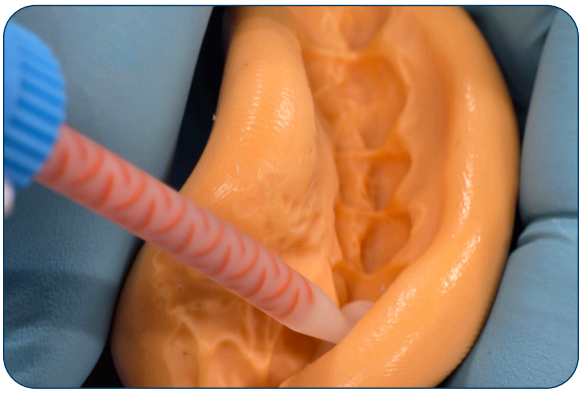




PTFE Tape

Cementation Aid

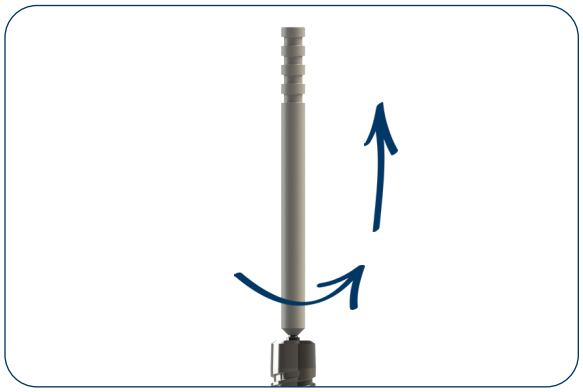
(B) Creating the Provisional



1 Fill matrix with your preferred material (e.g. bis-acryl or flowable composite), seat matrix over abutment/fastener, and allow to set.

2 Thanks to the Separable Fastener, the provisional can now be removed without the need to create the screw channel.

Note: The head (PEEK Cap) is picked up in the provisional, while the threaded portion (Threaded Post) remains in the implant.



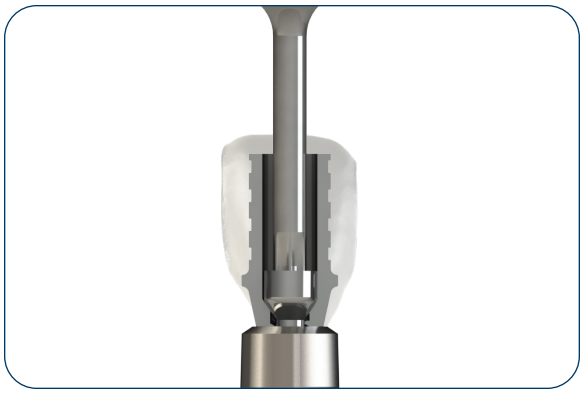
3 Press Cementation Aid onto the Threaded Post, unscrew from implant, and discard.

4 Open up the screw channel. Remove the PEEK Cap, using air if necessary.

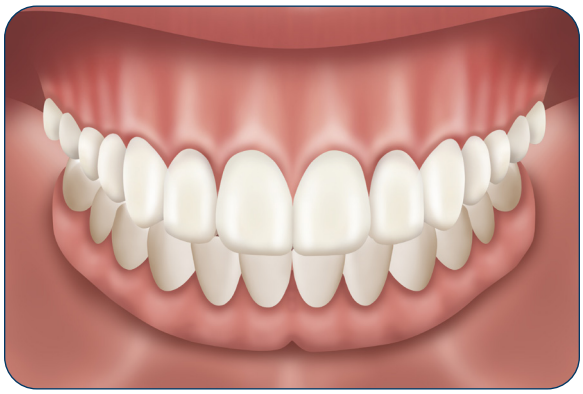
Recommended Tool: #8 Round Bur

5 Make final adjustments to the provisional. Try in the patient's mouth or master cast and adjust occlusal surface if needed.

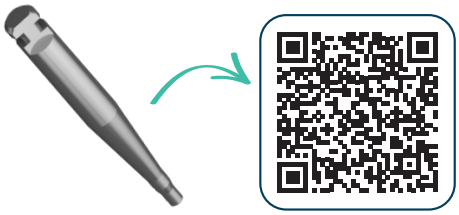
6 Seat provisional with final screw and torque to the manufacturer's specifications. Verify radiographically. Seal access with PTFE/PVS/ composite.



7 Verify occlusion with finished provisional.



Cementation Aid



Retrieval Tool

Clinical Tips

- Maintain a minimum of 4mm post height after modification (or as specified by the manufacturer) for single-unit loading.
- Before placing the temporary restoration, verify the torque requirements according to implant connection and size.
- For bridges, splint abutments before pickup for additional stability.
- Always confirm PEEK Cap is removed from the provisional screw channel.
- Always confirm Threaded Post is removed before prosthetic screw insertion.
- Temporary abutments are typically indicated for a maximum of 180 days intraorally (refer to manufacturer's IFUs for exact indications).

SimpleTemp Compatibility

BioHorizons®

BIOHORIZONS® INTERNAL
M1.8

BlueSkyBio®

BIO MAX
M2 (RP)

BIO INTERNAL HEX
M1.8

ITL Dental

INTERNAL HEX
M1.8

Nobel®

NOBELACTIVE®
NOBELREPLACE® CC
M1.6 (NP) M2 (RP)

REPLACE TRILOBE
M1.8 (NP)

BRANEMARK® EXTERNAL HEX
M1.6 (NP) M2 (RP)

Southern Implants

DEEP CONICAL
M1.6 (4.0)

EXTERNAL HEX
M2 (4.0)

SP1
M1.6 NARROW

PROVATA INTERNAL HEX
M1.8

Straumann

STRAUMANN® BLX/BLC
STRAUMANN® TLX/TLC
M1.6 NARROW

Zimvie®

ZIMMER INTERNAL HEX
M1.8

SimpleTemp Compatibility (through DESS)

DESS - Astra Tech

IMPLANT SYSTEM™ EV

M1.6 (S) M1.8 (M) M2 (L)

DESS - BioHorizons®

BIOHORIZONS® INTERNAL

M1.8

DESS - Biomet 3i

OSSEOTITE CERTAIN®

M1.8

DESS - Hiossen

HIOSSEN ET

M2 (REG)

DESS - Nobel®

NOBELACTIVE® & NOBELREPLACE® CC

M1.6 (NP) M2 (RP)

DESS - Straumann®

STANDARD/STANDARD PLUS TAPERED EFFECT (TE)

M2

DESS - Zimvie®

ZIMMER INTERNAL HEX

M1.8

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