

Emulating nature.
The perfect disguise.



Implanting trust.



1
When using the PureForm Ceramic System and a Centerpulse Dental internal hex implant, the flat of the implant's internal hex should be oriented toward the buccal or labial surface. During placement of the implant, the flat of the Fixture Mount/Transfer aligns the flat of the internal hex in the correct orientation. For Spline® implants, the point of the driver mount should be oriented toward the buccal or labial surface for proper placement. A Surgical Try-in Pin is also available for use after the pilot drill to help with proper spatial alignment of the implant.



2
This step will help ensure that the flat of the abutment is aligned properly for the restoration. The PureForm system consists of a metal Core Abutment and a ceramic tooth-shaped coping that is indexed to the flat on the abutment. Porcelain is applied directly to the coping and fired. No wax-up or casting is required to create a coping.



3
If desired, a Healing Collar or provisional restoration may be placed in a single stage procedure to accelerate soft tissue contouring. Alternatively these can be placed at implant uncovering following the traditional two-stage protocol. Once hard and soft tissues have healed, remove the Healing Collar or provisional restoration to proceed with the restorative phase.



4
Attach the transfer to the implant and tighten the screw using a 1.25mmD Hex Tool and finger pressure. Block out the screw access channel with wax to prevent ingress of impression material.



5
Record a traditional implant level impression. Place light body impression material around the transfer, load the tray with medium body material and record a full-arch impression.



6
Remove the impression tray and transfer, and replace the Healing Collar or provisional restoration on the implant. The transfer is attached to an Implant Analog and reinserted into the impression. Send the impression, transfer and analog to the laboratory for fabrication of a working cast.



7
Use soft tissue replication material when pouring the impression. Lubricate the impression with a separating medium, place the soft tissue material around the transfer post/analog assembly (enough to cover the transfer post/analog interface margin). Allow the material to set. Use a sharp instrument or bur to create mechanical retention or undercut areas. Box and pour the impression in the traditional manner with model or die stone. Allow to set.



8
Choose the appropriate abutment diameter that corresponds to the implant platform being restored. Two cuff heights are available for each diameter: 0.5mm and 1.5mm. A set of metal abutment try-ins, that is color-coded by diameter, is available. Seat the Core Abutment or abutment try-in of choice on the working cast with the retaining screw. Orient the flat of the abutment or try-in to the buccal or labial surface.



9
Use the plastic replicas provided in the Plastic Try-in Kit to select the coping closest to the size and geometry of the final tooth being replaced. The plastic replicas in the try-in kit represent the size and shape of the Ceramic Copings. Six shapes are available: large incisor (straight and 17°), small incisor (straight and 17°), canine and premolar. Each Ceramic Coping flares from 4.5mmD at the base and will fit any size Core Abutment.



10
Order the Ceramic Coping that corresponds to the try-in selected. Part numbers are etched on each Plastic Try-in for easy identification and reference. A table inside the try-in kit lists the corresponding Ceramic Coping part numbers for easy reference and ordering.



11
The flat on the Core Abutment is designed to align with the flat inside the Ceramic Coping. When placing the Core Abutment on the model, the flat should be oriented to the buccal or labial surface. Since the Core Abutment for internal hex is friction-fit, use the Removal Tool to remove the abutment from the model when needed.



12
Using traditional porcelain finishing burs, reduce the Ceramic Coping if needed to the correct dimensions for porcelain application. The coping can remain on the holder provided in the vial during the preparation. Do not reduce the wall thickness to less than 0.5mm. Care must be taken not to overheat the Ceramic Coping during preparation. Sand blast the surface of the coping with 120 micron aluminum oxide at 35-38 PSI and clean the coping with steam or distilled water in the ultrasonic cleaning unit.



13
The coefficient of thermal expansion (CTE) of the Ceramic Coping is $8.1 \times 10^{-6}/^{\circ}\text{C}$ (0-500°C). Applied porcelains should be selected to accommodate for the parameters of the underlying coping. Apply porcelain to the coping following manufacturer's guidelines for ceramic application.



14
Complete the restoration using conventional laboratory techniques for "full ceramic" crowns.



15
Remove the healing components and seat the Core Abutment into the implant. Be sure the flat of the Core Abutment is oriented to the labial. Tighten the retaining screw between 28.2 and 30 Ncm with a calibrated torque wrench. Take an x-ray to confirm that the Core Abutment is fully seated.



16
Block out the screw access channel with cotton or block-out compound.



17
Apply cement and seat the crown onto the Core Abutment in a typical fashion as when seating any all-ceramic crown on an implant abutment or natural tooth. Note: Cements that are known to expand during setting are not recommended.



18
As in traditional crown and bridge techniques, adjust the occlusion and bite, and be sure to remove any exuded cement from the margin area.

Dental Division



Implanting trust.

Centerpulse Dental Inc.
1900 Aston Avenue
Carlsbad, CA 92008-7308
U.S.A.

www.centerpulse-dental.com

For more information about our Products, Professional Programs and Continuing Education, contact us:

In the U.S. 800 854 7019
To fax an order 888 225 2483
Outside the U.S. +1 760 929 4300
France +33 (0)1 45 12 35 35
Germany +49 (0)7 61 45 84 723
Canada +1 800 265 0968 or 1 416 674 6116
Israel +972 (0)3 6124242
Australia +61 2 429 74182 or 1800 241 916
New Zealand +61 2 429 74182 or 0800 305 566
Spain +34 93 846 0543