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SMARTbase 3shape Guide

01 Import scan and assess orientation of the scan adapter flat that correlates to the notch of the SMARTbase.

02 If the SMARTbase notch isn’t in the desired location, adjust it in the Advanced Section of the Parametric settings.

03 Click the “Edit Implant Models” button to see the rotation slider at the base of the SMARTbase abutment.
04 Left Click + Drag the slider ball so that the notch faces the desired screw hole. The abutment will rotate according to the number of sides of the interface.

05 Refine restoration design as needed. To adjust the angle of the screw hole, click the “Angled screw hole” button in the Assembly menu on the Finalize window.
06 Click + drag the ball at the top of the screw hole axis.

07 You can change the angle up to 25 degrees from the implant axis. 

**NOTE:** You must line up the axis of the screw hole to the center of the notch in the SMARTbase. To see the SMARTbase, lower the opacity of the crown library and turn on the SMARTbase library. You can also turn on the screw hole library so you can see where the screw hole will be placed.
To widen the screw hole, adjust the setting with the "Extra drill hole radius" option in the Advanced section in the Assembly settings. If there is a desire to have a removable screw rather then floating screw, widen the hole to approximately 3mm.

Once design is finalized, mill the restoration.

Re-attach SMARTbase to model as needed. Occlude the area between the screw and interior wall of the SMARTbase with wax and/or cotton. Insert the Driver Access Plug (DAP) through the hole in the final prosthesis to protect the screw head from the cement. You may also occlude the screw head with wax and/or cotton, if preferred.
11 Apply cement according to manufacturer directions to the interior of the restoration. Avoid overfilling.

12 Bring the end of the DAP to rest on the screw head and push prosthesis down as needed to attach to the base. Ensure restoration is fully seated on SMARTbase.
To detach assembled restoration from model, remove DAP and any other block out material used, then insert the Off-Axis Driver and rotate it counter-clockwise. If the screw hole axis is not angled from the implant axis, a 1.25mm hex tool may be used.

Once cement has partially set, peel away any excess that has extruded, taking care not to disturb the relationship between the restoration and SMARTbase. After the luting agent has fully set, check the restoration-SMARTbase interface for any residual cement and polish the area.
IMPRESSON TAKING & CASE SUBMISSION

01 Take an impression utilizing an open or closed-tray impression technique as well as an impression of the opposing arch and bite registration.

02 Send to laboratory with a request for a SMARTbase restoration.
LABORATORY FABRICATION

03 Upon receipt of impression, attach corresponding implant analog. Apply soft tissue replication material and pour up stone model.

04 Attach the SMARTbase with the notch (cutout) indexed to where the screw hole will be on the lingual surface of the restoration.
05 Seat the burn out coping included with the SMARTbase onto the base. Align the notch on the coping to the notch on the base and ensure it is fully seated.

06 Modify the coping as needed and apply wax to secure the coping.
07 DAP will create the screw hole within the prosthesis during wax up. The line indicates the maximum off-axis angle (25°).

08 Place the DAP through the notches of the coping and base at the desired off-axis angle. The DAP will rest on the screw head and fit snugly within the coping slot.
09 Wax around the coping and driver to shape the desired prosthesis.

10 Remove the DAP and observe the screw hole that has been formed within the wax pattern.
Follow standard lab processes to fabricate the restoration.

Re-attach SMARTbase to model as needed. Occlude the area between the screw and interior wall of the SMARTbase with wax and/or cotton. Insert the DAP through the screw hole in the final prosthesis to protect the screw head from the cement. You may also occlude the screw head with wax and/or cotton, if preferred.
13 Apply cement according to manufacturer directions to the interior of the prosthesis. Avoid overfilling.

14 Bring the end of the DAP to rest on the screw head and push prosthesis down as needed to attach to the base. Ensure restoration is fully seated on SMARTbase.
15 To detach assembled restoration from model, remove DAP and any other block out material used, then insert the Off-Axis Driver and rotate it counter-clockwise. If the screw hole is not angled from the implant axis, a 1.25mm hex tool may be used.

16 Once cement has partially set, peel away any excess that has extruded, taking care not to disturb the relationship between the restoration and SMARTbase. After the luting agent has fully set, check the restoration SMARTbase interface for any residual cement and polish the area.
If there is a desire to have a removable rather than floating screw, widen the screw hole to approximately 3mm and remove the screw to verify retrievability.
In addition to enhancing esthetics, the off-axis screw hole allows for easier access in areas where vertical space is limited.

Deliver the assembled restoration to the implant site(s) with the Off-Axis Driver. Verify fit and tighten screw to 30Ncm.
Check occlusion and make any final adjustments as needed. Congratulate patient on new smile!

The SMARTbase supports the workflow you choose. You can follow this traditional workflow or combine with digital elements such as intraoral scans.
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All our implants are manufactured in the United States. We continue to test and inspect our products to ensure they meet the highest quality and testing standards worldwide so you can practice in confidence.