

Prosthetic restoration of SDS ceramic implants

The prosthetic procedure is very similar to that of the natural tooth. Please note the most important points:

- You can easily grind the SDS implant according to our preparation rules
- The final crown/ bridge must always be placed on the implant shoulder

GRINDING SDS CERAMIC IMPLANTS:

SDS ceramic implants can easily be ground both intraoperatively and directly prior to taking the impression, e.g. to prepare an individual emergence profile in the tulip region or to adapt the position of the crown margin to the gingival profile.

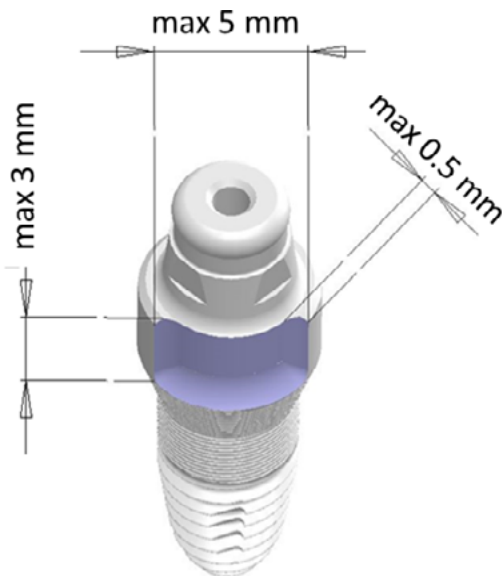


Fig.: Maximum reduction of preparable area

The following preparation principles must be observed:

- Sterile, single-use fine-grain diamond bur, granulation 46 μm (red-ring).
- Spray-jet cooling not less than 50 ml/ min.
- Observe the operation instructions of the diamond bur manufacturer for maximum speed
- Application pressure on the rotating instrument must not exceed 20 N.

Additional information for grinding SDS1.2 implants:

- The SDS1.2 abutment must not be prepared before insertion of the implant.
- If necessary SDS recommends preparation of the SDS1.2 abutment:
 - A) After the implant has been inserted and the wound has been closed, but before the impression taking for the temporaries
 - B) After the final osseointegration of the implant
- Do not grind SDS1.2_33xx implants/ abutments.
- Only prepare SDS1.2_38xx/ SDS1.2_46xx/ SDS1.2_54xx in the visible/ aesthetic area of the implant shoulder to adjust them to the contours of the gingiva.
- The outer diameter of the implant shoulder may be reduced by a maximum of 0.5 mm. The reduced circle segment must not exceed 5 mm and the reduction of the implant shoulder must not exceed 3 mm.



FINAL PROSTHETIC RESTORATION

Dental lab - essential points:

- The crown must rest on the shoulder of the implant
- Perfect fit, no friction
- Glass ionomer Cement e.g. Ketac™Cem
- Interlock with each other - but not with the natural teeth
- No interlocking in the canine region of upper jaw or over the midline of lower jaw
- No free-end pontics, max. 1 bridge pontic (dimension of bridge pontics: 3.3 mm \varnothing no bridge restoration, 3.8 mm \varnothing max. premolar width, from 4.6 mm \varnothing max. molar width)
- Reduced occlusion (pull Shimstock foil through), no sideways tracks
- Use a softer material than zirconium oxide on at least one jaw in the case of a total upper and lower jaw restoration
- Fit SDS1.2 with a cement lock if appropriate

Insertion/ cementation of the final prosthetics - essential points:

- Preliminary check of occlusion, articulation and friction
- Dry without using retraction cords
- Use GIC (Glass ionomer Cement, e.g. Ketac™Cem)
- Apply a thin layer of cement into the crown, place it firmly for a short time, then just hold
- Remove any excess in the viscoelastic phase (plastic scaler)
- Check for occlusion, articulation again
- Documentation: photo, X-ray, situation models

FURTHER AND MORE DETAILED INFORMATION

The extensive Prosthetics Manual can be found on www.swissdentalsolutions.com/en/downloads. The respective instruction videos can be found in the video library.

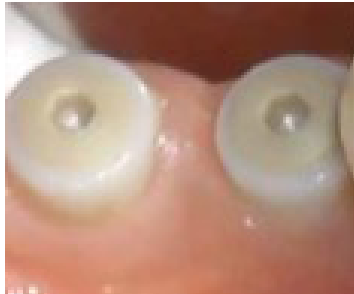
Special features of two-piece SDS ceramic implants

PROSTHETIC RESTORATION OF SDS CERAMIC IMPLANTS

Please also follow the points described on the front side for the two-piece SDS implants. The general aim is to generate a one-piece implant from a two-piece SDS implant in order to achieve the maximum possible stability.

CEMENTING SDS2.2-AB-S „STANDARD IMPLANT POSTS“

- A standard PEEK or titanium (titanium not available in the US) screw is used exclusively for fixing during cementation
- When planning your prosthetics, please note that the crown must rest on the shoulder of the implant



1. Healed implants with cover screw.



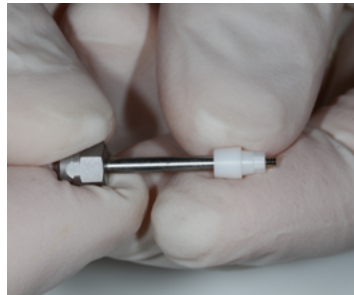
2. Remove cover screw.



3. Try-in of implant post, cleaning and drying of interface.



4. GIC, e.g. Ketac™Cem for cementing implant posts.



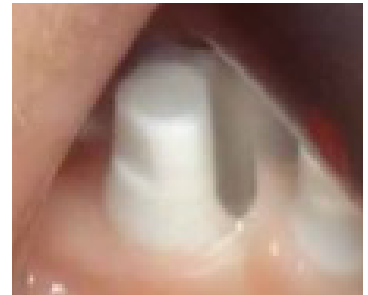
5. Pre-assembly of implant post and standard screw.



6. Cemented implant post, screw serves to fix during cementing.



7. Filling the screw cavities with „flow“.



8. Preparation of the implant shoulder with the red ring diamond.

You can find the corresponding instructional videos „Cementing implant post“ in the media library at www.swissdentalsolutions.com/en/video-library

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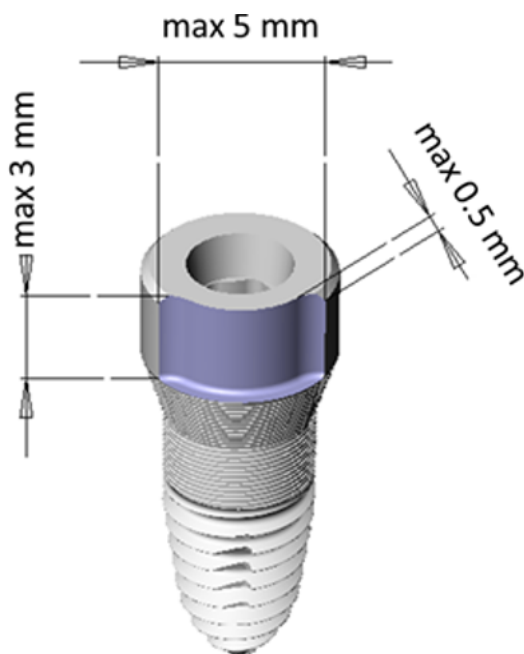


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- Observe the operation instructions of the diamond bur manufacturer for maximum speed
- Application pressure on the rotating instrument must not exceed 20 N.

Additional information for grinding SDS2.2 implants:

- The SDS2.2 implant shoulder must not be prepared before insertion of the implant.
- SDS recommends preparation of the SDS2.2 implant shoulder if necessary, after final osseointegration of the implant before the impression taking.
- Do not grind SDS2.2_38xx implants/ abutments.
- Only prepare SDS2.2_46xx/ SDS2.2_54xx in the visible/ aesthetic area of the implant shoulder to adjust them to the contours of the gingiva. The outer diameter of the implant shoulder may be reduced by a maximum of 0.5 mm.
- The reduced circle segment must not exceed 5 mm and the reduction of the implant shoulder must not exceed 3 mm.

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