



Implant Bar **Overdenture**

A Streamlined Workflow
for Your Practice

GKY Dental Arts

Combining Artistry and Technology Since 1982

Located in Southern California, GKY Dental Arts is proud to provide high-quality restorations, services, and resources to dentists throughout the nation. We proudly offer the latest dental innovations that will help you increase patient satisfaction, save money, and simplify your practice workflow.

Our implant department is backed by a team of experienced and dedicated technicians. We offer innovative implant restorations that ensure success and satisfaction. We work with all major implant manufacturers.

GKY also proudly partners with Panthera Dental® and Dentsply Sirona's Atlantis™ Suprastructures.



GKY Dental Arts

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Implant Bar Overdenture

Implant-Retained Stability with Removable Convenience

The implant bar overdenture from GKY Dental Arts combines the high functionality and stability of an implant with the removability of a traditional full denture. This restoration is comprised of a bar that sits atop implants or implant abutments implanted into the edentulous ridge and an overdenture. The overdenture is attached to the titanium bar through various attachments, including locators, ERA, and clips. These attachments allow the patient to attach or remove the prosthesis easily.

This innovative solution is ideal for edentulous patients looking for a prosthesis that gives increased stability, allows for the replacement of lost tissue (when a flange is needed), or doesn't have the ability for additional implants for a fixed detachable hybrid denture. This restorative concept lessens bone loss over time and results in a great long-term fitting prosthesis.

Implant Bar Overdentures work with osseointegrated implants and multi-unit abutments for tissue height correction or angulated adjustment.

Features



Easy Accessibility

Since the overdenture is easily removable, this restoration makes maintenance and repairs at your office, our lab, and your patient's home simple.



Lifelike Esthetics

Our implant bar overdenture is fabricated by our expert technicians, who ensure every restoration perfectly mimics natural dentition.



Increased Function

This restoration evenly distributes occlusal impact across the entire ridge. Additionally, it features a higher degree of retention.

Step-by-Step Workflow

First Appointment: Impressions

During this first appointment, you will take implant-level impressions, including the palate and vestibules. You will then send these impressions to our team at GKY Dental Arts.

Please Note: Open-tray impressions are recommended.

Step 1: Remove healing abutments.

Step 2: Seat impression copings and tighten screw. Take a periapical radiograph to ensure complete seating. Check impression tray fits properly. (Fig.1)



Figure 1: Seat the Impression Copings

Step 3: Take an open-tray impression. Allow the material to set. Then unscrew and remove the guide pins from the impression coping and remove the impression from the mouth. The impression copings will remain in the impression when using the open tray impression technique. It is recommended to lute each impression coping together in the mouth prior to taking the final impression. (Fig. 2)



Figure 2: Implant-Level Impressions

Step 4: Replace healing abutments.

Step 5 Send all materials, including impression, to GKY Dental Arts and allow the technician to attach the implant analog to the impression coping at the lab. Please identify on the Rx the implant manufacturer, system, and size. (Fig.3)



Figure 3: Attach Implant Analogs to the Impression Copings

Step-by-Step Workflow

Second Appointment: Verification

After receiving impressions, our team will design a verification jig created from acrylic. Each section will consist of one temporary cylinder. We will also send you a bite block and a custom tray. A new pick-up impression will need to be taken (refer back to step 3).

Verification Jig

Step 7: Remove healing abutments.

Step 8: Seat each section of the verification jig onto each specific implant and tighten guide pin. (Fig.4)

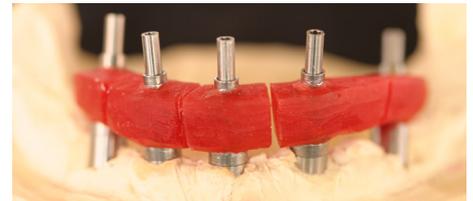


Figure 4: Implant Verification Jig Seated

Note: Ensure there is a gap between each section of the verification jig of about 1mm before luting.

Step 9: Lute sections together using a low shrinkage resin pattern (GC Pattern Resin is recommended). Fill the material into all the gaps (Fig.5). Then, use the enclosed custom tray to take the open tray pick-up impression.



Figure 5: Luting Sections of the Implant Verification Jig

Bite Registration

Step 10: Seat bite block and gently hand-tighten cylinder screws.

Step 11: Record accurate jaw relation data as the patient is sitting upright.

Step 12: Take impression of opposing dentition and current denture for a study model.

Step 13: Choose shade and mold for denture teeth. The study model of the patient's current denture may be used as a reference for size and shape.

Step 14: Send all information back to GKY Dental Arts, including master model, bite block, bite registration, opposing impression, and study model.

Step-by-Step Workflow

Third Appointment: Final Verification and Teeth Try-In

During this appointment, you will need to verify the master model with a final try-in of the verification index using the 1-Screw Test.

Step 15: Tighten one screw and verify passive fit on all implants. Remove the screw and repeat the process for each implant. Then tighten the remainder of the screws (Fig.6).



Figure 6: Setup Try-in

Step 16: Take x-rays to verify fit (Fig.7 & 8).



Figure 7: Take X-Rays

Step 17: Try in denture. Evaluate VODO, CR, esthetics, shade, tooth arrangement, occlusion, phonetics, and midline (Fig.9 & 10).

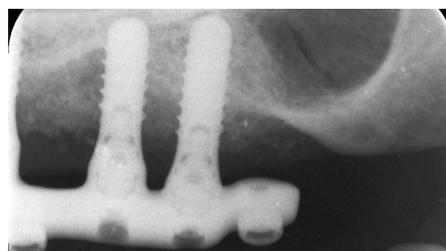


Figure 8: Take X-Rays

After you confirm the verification index and teeth set-up, the bar will be CAD-designed (Fig.11). The fit of the bar will be precise to the confirmed model.



Figure 9: Try In Denture. Evaluate.

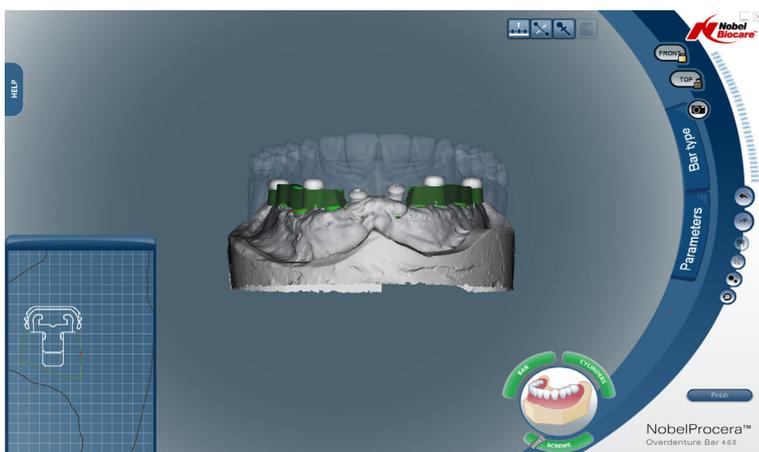


Figure 11: CAD/CAM



Figure 10: Try In Denture. Evaluate.

Step-by-Step Workflow

Fourth Appointment: Overdenture Wax Try-In and Bar Try-In

GKY Dental Arts will send you the final overdenture and titanium bar.

- Step 18:** Remove healing abutments.
- Step 19:** Seat titanium bar; it is important it seats passively. Take X-ray to verify it is completely seated.
- Step 20:** Evaluate VDO, CR, esthetics, shade, tooth arrangement, occlusion, phonetics, and midline (Fig.12)
- Step 21:** Unscrew bar and reseal healing abutments.
- Step 22:** Send all information back to GKY Dental Arts, including master model, teeth try-in, bar, verification index, new bite registration, opposing impression, study model, and any photos or videos that would be helpful.



Figure 12: Try In Overdenture Set-Up

Step-by-Step Workflow

Fifth Appointment: Final Delivery

- Step 23:** Remove healing abutments.
- Step 24:** Seat bar on implants or abutments.
- Step 25:** Hand-tighten prosthetic screws, alternating sides.
- Step 26:** Tighten screw to the appropriate torque per manufacturer instructions. Wait five minutes and retorque screws.
(Visit www.gkydentalarts.com/torque for a torque guide).
- Step 27:** Deliver complete overdenture and engage with attachments, check fit, function, and occlusion. Make any needed adjustments.

Step-by-Step Workflow

Sixth Appointment: One Week Check-Up

- Step 28:** Unscrew titanium bar.
- Step 29:** Relieve any sore spots.
- Step 30:** Review oral hygiene instructions.
- Step 31:** Retighten prosthetic screws to appropriate torque per manufacturer instructions.
- Step 32:** Check occlusion.
- Step 33:** Create recall schedule.

Implant Bar Overdenture

Maintenance Appointments

Six-Month Hygiene Appointment

Perform prophylaxis under implant bar overdenture.

Twelve-Month Hygiene Appointment

Remove implant bar overdenture and thoroughly clean.

Note: If screws are showing signs of wear or appear damaged, replace immediately.

Getting Started

It's Easy to Send Your Case to GKY Dental Arts

GKY Dental Arts is your resource for high-quality restorations and dedicated partnership. Our streamlined case submission process includes everything you may need to send in your case.



- **Download Rx Forms**



- **Schedule Local Pickup**



- **Generate Free UPS Shipping Labels**



- **Schedule Your Case**



- **Upload Files**



- **Pair Your Intraoral Scanner**

Get Started Today by Visiting
www.gkydentalarts.com/send-case.

*If you have any questions about the implant bar overdenture process, please contact our team. We will happily answer any questions you may have. We are available at **800-548-3384** or **310-214-8007**.*