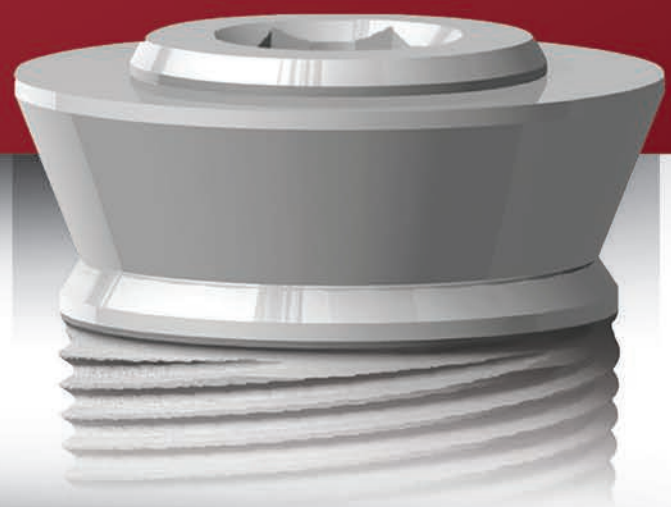
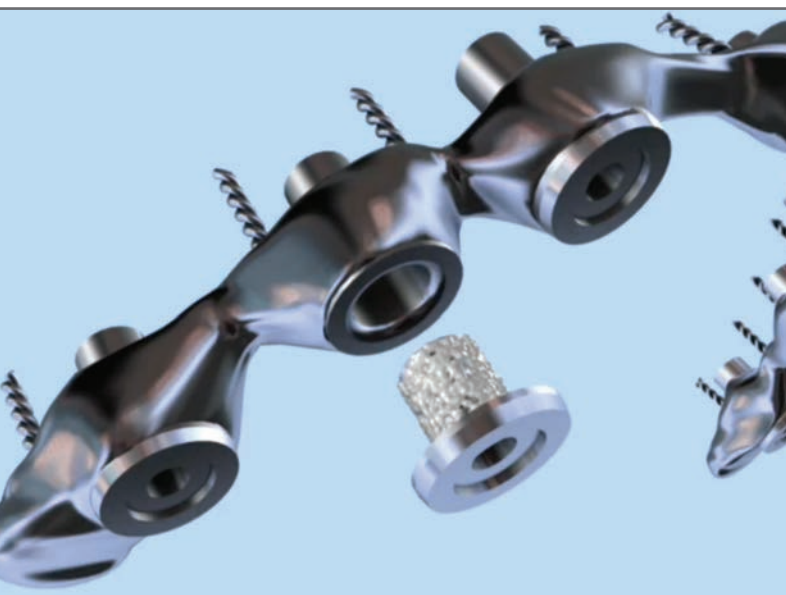
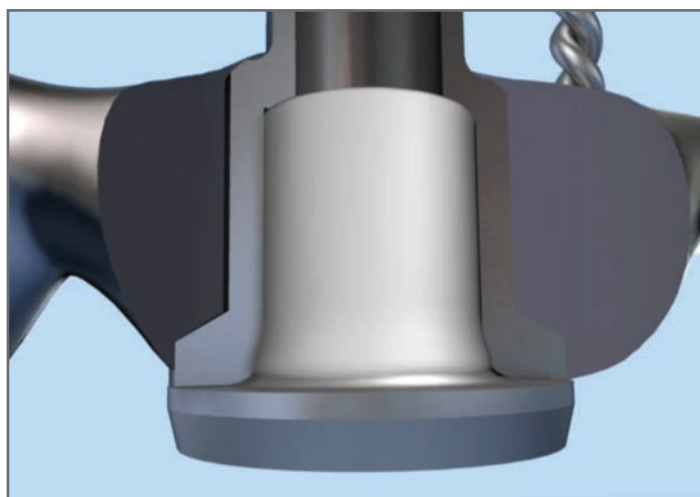


**FLAT  
ONE<sup>®</sup>** **1**  
ABUTMENT SYSTEM

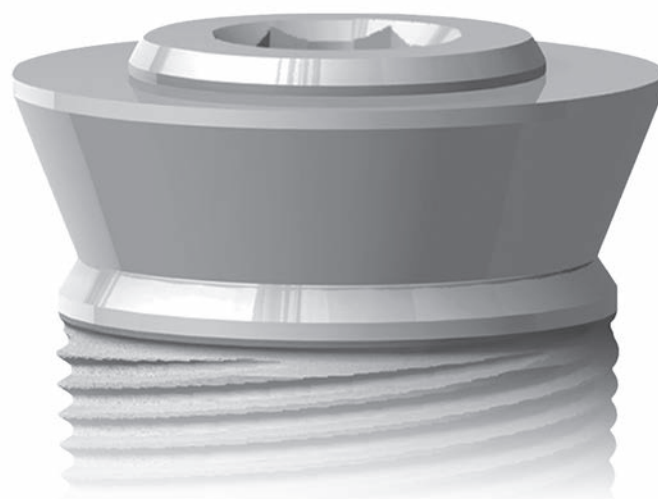


**INTRALOCK<sup>®</sup>**  
INTERNATIONAL

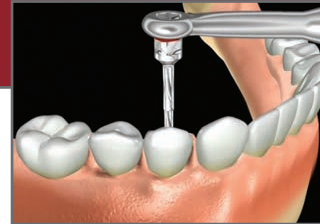
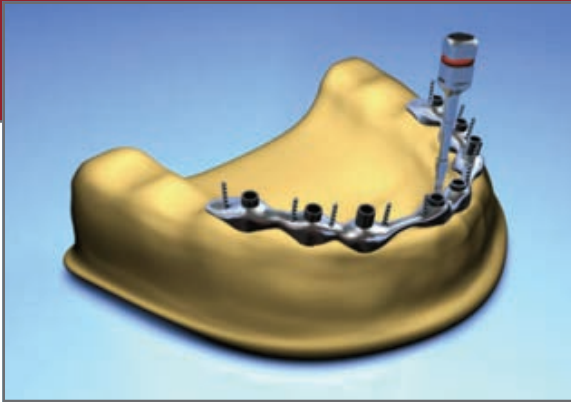
**INNOVATIVE DESIGN  
IN FULL-ARCH FIXED  
RECONSTRUCTION:**



**FLAT**  
**ONE®** 1  
ABUTMENT SYSTEM



Developed over the years into a simple, yet predictable procedure, thousands of patients have benefited from the FlatOne® treatment modality. The streamlined FlatOne® System and Protocol enable both the dentist and the laboratory technician to work together in a highly efficient, closely coordinated manner.



In an age of instant gratification, dental patients demand not only beautiful teeth and excellent function, but also an economic, definitive restoration as quickly as possible.

The FlatOne® Abutment System and Protocol is designed for full mouth rehabilitation with these criteria in mind. It reduces chair-side time, laboratory costs, and the time from surgery to function (to as little as 48 hours). The finished case is a full-arch fixed prosthesis... not a hybrid denture.

The heart of the system consists of a screw-retained metal framework which attaches to FlatOne® abutments. It provides for cross-arch stabilization. This framework enables the fabrication of a final restoration that is characterized by exceptional strength for long-term durability and resistance to acrylic fractures. It provides for outstanding esthetics.



- Full-arch Fixed Prosthesis, Not a Hybrid Denture
- Reduces Chair-side Time & Laboratory Costs
- Case Time Condensed (to as little as 48 hours)



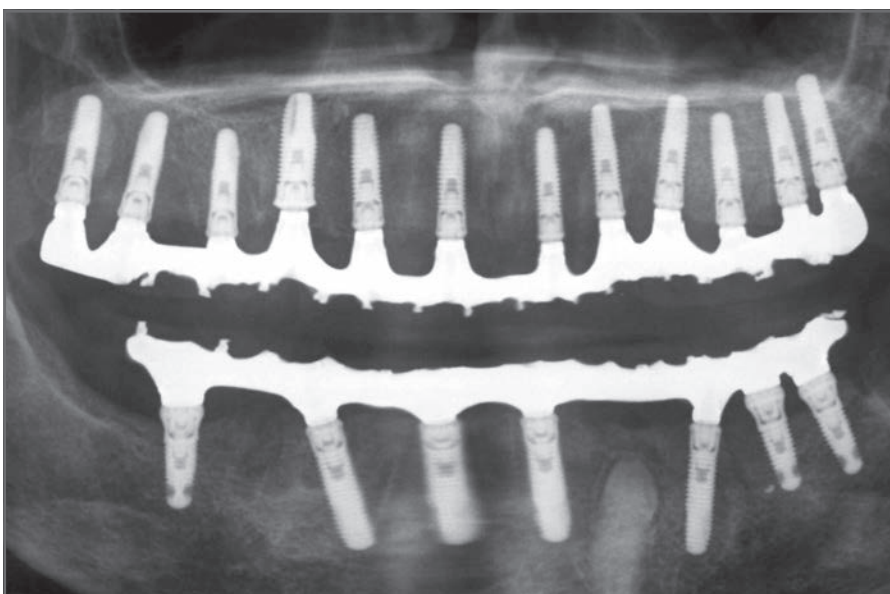
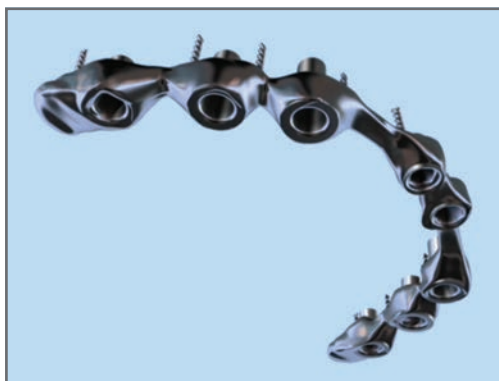


- Restoration Supported by a Wide, Flat Platform
- Eliminates the Need for Implant Parallelism
- Does Not rely on a Retaining Screw for Support

FlatOne® Abutments have a flat occlusal table. This flat surface mates precisely with the cylinders in the prosthetic framework ensuring that the load of the restoration is supported by a wide, flat platform. This provides greater strength to the prosthetic system in contrast to conventional two-piece abutments that rely on a retaining screw for support.

The FlatOne® System is specifically designed to eliminate the need for implant parallelism. The clinician can place implants in the most advantageous locations and positions (often ranging from six to twelve), where the amount/quality of bone is more suitable or where critical anatomy must be avoided. As many implants as deemed appropriate can be placed with the assurance of a simultaneous, passive seating of the prosthesis.

Its strong metal framework also enables early delivery of the prosthesis. It acts as a surgical splint and provides stabilization for the implants, especially during the healing phase.

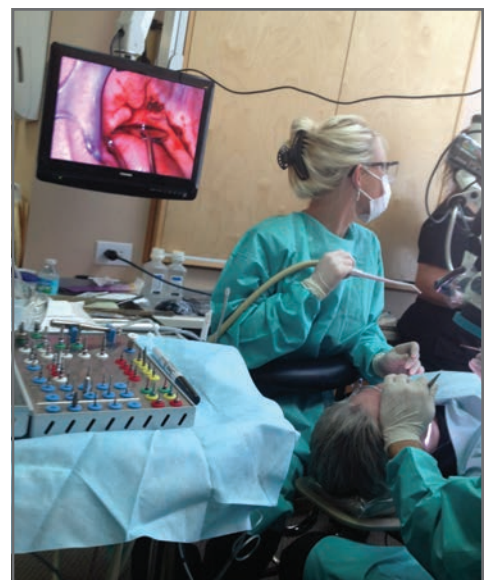


The FlatOne® Protocol enables the laboratory to fabricate and assemble the structural components of the prosthesis with extreme efficiency. This is also true for the functional and cosmetic aspects, which are fulfilled by composite teeth and any additions that are necessary to compensate for soft tissue defects.

This system incorporates all of the intrinsic characteristics of Intra-Lock® implants: OSSEAN® bioactive surface for predictable healing in the early treatment phase, a ferrule/ Morse Taper interface providing a virtually hermetic seal, implant architecture designed for lower compression and higher bone-to-implant-contact, and a final fixation screw with a proprietary surface ensuring ultimate compressive clamping forces secure the framework in place.



- Laboratory Efficiency
- Teeth Emerge From the Soft Tissue
- Incorporates Intrinsic Features of Intra-Lock® System



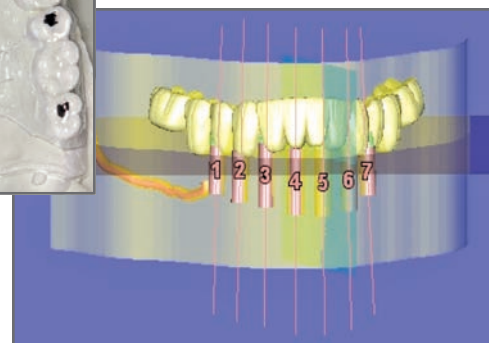
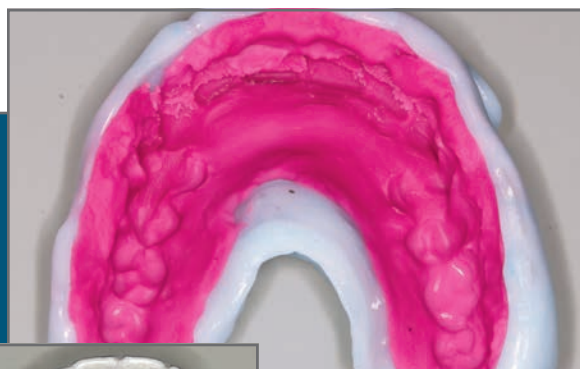


## Diagnostic Workup and Case Presentation

1. In addition to routine examination protocols, full mouth impression, bite registration, diagnostic wax-up, scan guide, a CBCT scan, surgical guide and an index for the final restorations/occlusion are generated.

The diagnostic wax-up is first used for the treatment plan and case presentation appointment. This will give the patient an appreciation for the restorative and esthetic goals that can be achieved.

2. Upon acceptance of the treatment plan, a CT Scan Guide is prepared.



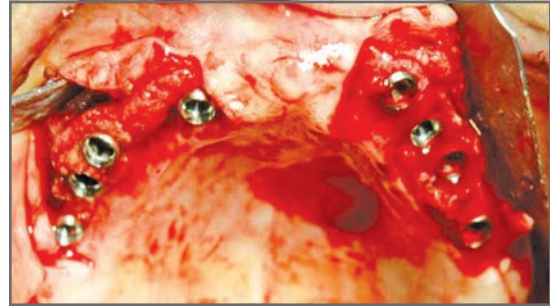
## CLINICAL

### Implant Placement

- Utilizing the CT scan and the diagnostic data, the clinical team definitively plans and coordinates the case.

**Note:** During the clinical phases, the clinician will only use five components: Intra-Lock Implants, FlatOne® Abutments, Impression Transfers, Healing Abutments and Clinical Retaining Screws.

- The day of the surgery the patient is appointed for a morning visit. By afternoon, as many implants as per treatment plan (6-10 implants) are placed.



### Abutment Placement

- After implant placement, the appropriate FlatOne® Abutments are secured and seated to a torque value of 35 Ncm.

**Note:** FlatOne® Abutments are available in two platforms, a 3.5mm narrow platform and a 5mm wide platform. In addition, they are available in three different heights, ranging from 1 to 3mm, enabling the ideal placement of each abutment and optimum margination of the final restorations.



### Impression

- The case is finalized and ready for the working impression. FlatOne® Abutment Impression Copings are placed and secured by Long Impression Screws. An open tray final impression is taken.

Note: FlatOne Impression Copings are available to match each platform; 3.5 or 5mm in diameter.

- The laboratory technician has been on standby and immediately receives the impression.



### Cover Screws

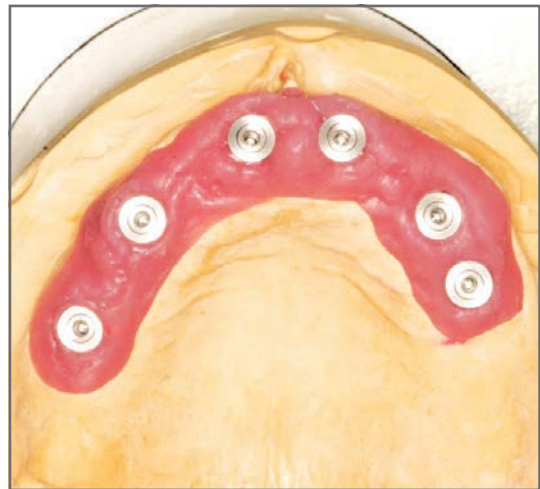
- FlatOne® Cover Screws are placed. The patient is given post-op instructions and reappointed for the next day.



### Fabrication of the Master Model

**Note:** The dental laboratory utilizes FlatOne® Analogs, Analog Cylinders, Castable Cylinders, Titanium Cylinders and Retaining Screws. The functional and cosmetic components consist of composite and/or denture teeth and any additions that are necessary to compensate for soft tissue defects.

9. Upon delivery of the impression, FlatOne® Abutment Analogs are placed in the impression and secured by Long Impression Screws. The impression is boxed and stone is poured.
10. While the Master Model is setting, an index is made of the dentition on the Wax-Up Model. This will be used to duplicate the precise location, position and height of each tooth on the FlatOne® Bridge. Upon setting, the Master Model is separated, trimmed and finalized.





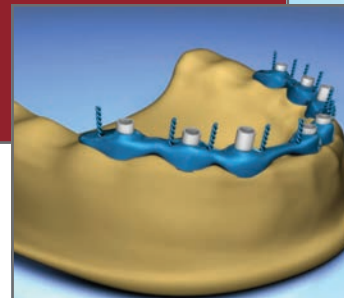
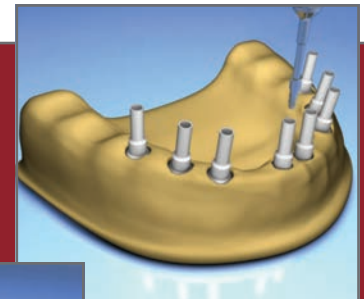
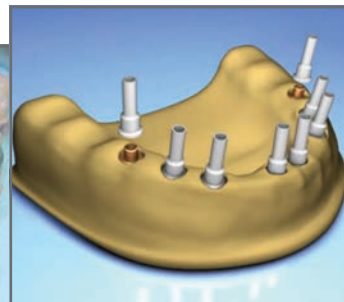
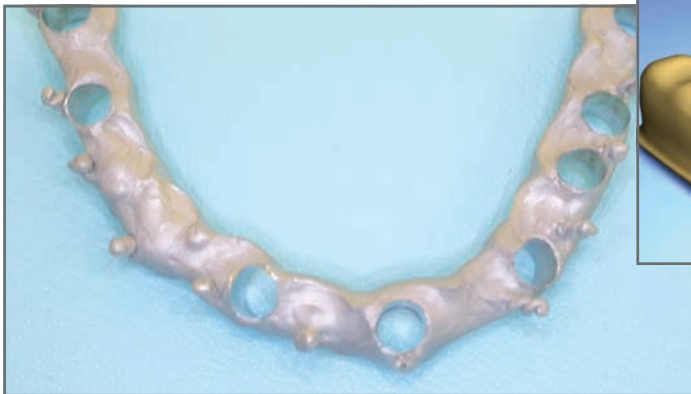
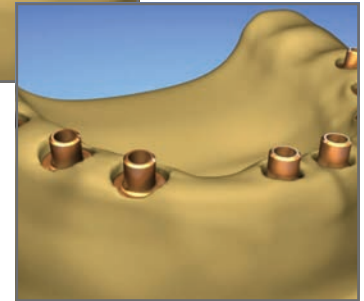
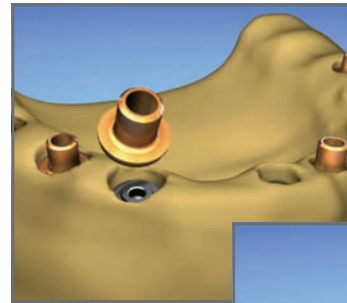
## LABORATORY

### Placement of FlatOne® Cylinder Analogs

- FlatOne® Brass Cylinder Analogs are positioned onto the FlatOne® Abutment Analogs.

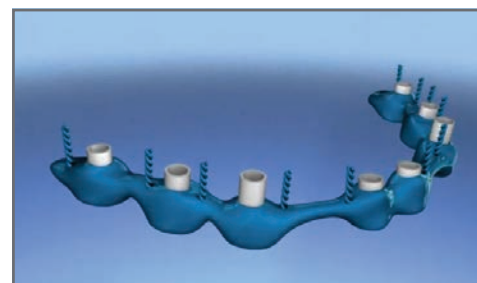
Note: There are two diameters of FlatOne® Brass Cylinder Analogs, each matching the FlatOne® Abutment diameters. One Standard (which is 5mm in diameter), and one Narrow (which is 3.5 millimeters in diameter).

- Plastic cylinders are positioned onto the Brass Cylinder Analogs and secured by FlatOne® Abutment Retaining Screws. The FlatOne® Plastic Cylinders are shortened to their correct heights and positioned over the FlatOne® Brass Cylinder Analogs .



### Full Arch Framework Wax up, Casting and Finishing

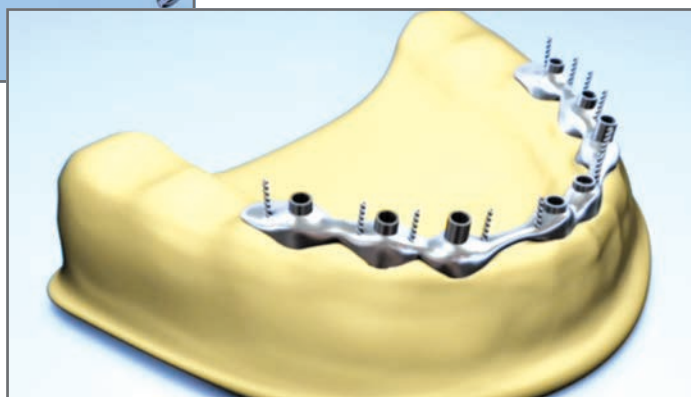
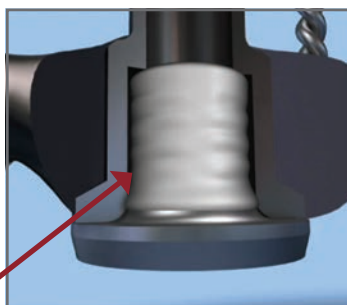
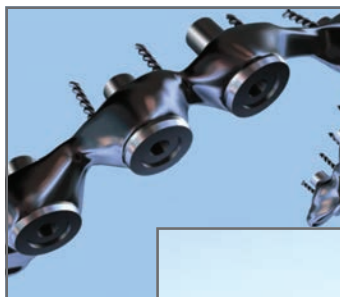
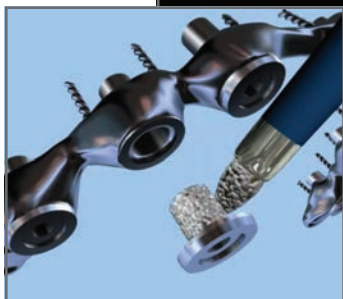
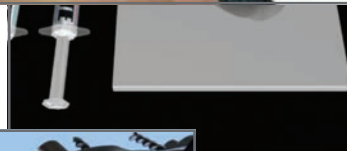
- The full-arch wax-up is then crafted. It will define the framework of the prosthesis. Upon completion, the framework is unfastened and carefully removed and invested. It is cast in non-precious, chrome cobalt alloy and finished.





### Uniting Framework with Titanium Cylinders

14. The cast framework is returned to the Master Model. Composite cement, such as “Ceka-Site” by Ceka, or “Ultra-Bond” by Kulzer is used for uniting the framework to the Titanium Cylinders. All of the cylinders are painted with resin cement and inserted into the framework.
15. Once completed, the assembly is then securely fastened back onto the master model using the same Laboratory FlatOne® Abutment Retaining Screws. The composite resin cement is allowed to set.
16. The metal framework and cylinder assembly is polished and the bridge is placed back on the Master Model. The simultaneous, passive seating of the completed assembly is verified.

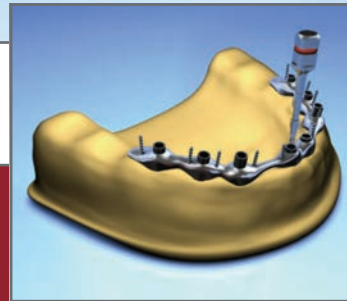


**Note:** The diameter of the Titanium Cylinders is slightly smaller than the Brass Cylinders. This creates a space for the composite resin cement.

## LABORATORY

### Placement of Teeth and correction of any soft tissue defects

17. Pre-cut denture teeth, which have been seated in the index, are brought into position. Resin material is applied to secure the dentition and to esthetically correct soft tissue deficits.
18. The FlatOne® Bridge is placed on the articulator with the opposing dentition and the occlusion is adjusted.
19. The case is returned to the clinician's office the afternoon of the second day.





**Delivery of the FlatOne Bridge**

- 20. Upon arrival at the office, the FlatOne® Bridge is inspected for accuracy of fit, occlusion and esthetics. Any final adjustments are made at this time and prior to the patient's arrival.
- 21. The patient arrives and the bridge is placed. The accuracy of all clinical parameters is verified both visually and radiographically. The simultaneous, passive seating of the prosthesis is confirmed and the esthetics, phonetics and occlusion are adjusted. Patient acceptance is confirmed and the case is secured by FlatOne® Clinical Retaining Screws, tightened to 20 Ncm of torque with a Torque-Lock® wrench.



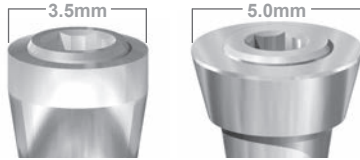
CLINICAL



22. A pellet of cotton is placed over each screw. This is followed by composite resin which is polished upon setting.
23. The occlusion and esthetics are finalized and the case is completed. The patient receives post-treatment instructions and home care education. Upon review of these procedures, the patient is reappointed for a final post-op check.

This completes the fabrication and placement of the FlatOne® Bridge.

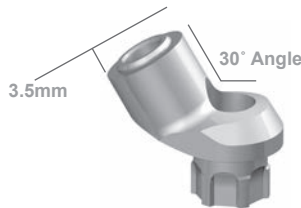
### CLINICAL FLATONE® COMPONENTS



FlatOne® abutments are available in two occlusal tables, a 3.5mm Narrow base and a 5mm Standard base.



In addition, they are available in three different heights, ranging from 1 to 3 millimeters, thus enabling the ideal placement of each abutment and optimum margination of the final restorations.



FlatOne® Angled Abutments are available for all three implant prosthetic platforms. All three have a 3.5mm occlusal table.



#### FlatOne® Solid Abutments

Height	Platform	Product Description	Ref. No.
1mm	SQ	F1 Abutment, Narrow	ISFAN1
2mm	SQ	F1 Abutment, Narrow	ISFAN2
3mm	SQ	F1 Abutment, Narrow	ISFAN3
-	SQ	F1 Abutment, 30° Angled, Narrow	ISAFNA
1mm	ST	F1 Abutment	IFA1
2mm	ST	F1 Abutment	IFA2
3mm	ST	F1 Abutment	IFA3
-	ST	F1 Abutment, 30° Angled, Narrow	IAFNA
1mm	WD	F1 Abutment	IFAW1
2mm	WD	F1 Abutment	IFAW2
-	WD	F1 Abutment, 30° Angled, Narrow	IAFAW
1mm	ST	WD	IFAN1
2mm	ST	WD	IFAN2
3mm	ST	WD	IFAN3

#### FlatOne® Cover Screws

Height	Product Description	Ref. No.
-	F1 Abutment Profile Cover Screw	IFAPCS
-	F1 Abutment Profile Cover Screw, Narrow	IFANPCS
4.5mm	F1 Abutment Profile Cover Screw	IFAPCS4
4.5mm	F1 Abutment Profile Cover Screw, Narrow	IFANPCS4
6mm	EP F1 Abutment Profile Cover Screw	IFAPCS6
6mm	F1 Abutment Profile Cover Screw, Narrow	IFANPCS6

#### FlatOne® Impression Screws

Product Description	Ref. No.
F1 Abutment Long Impression Screw	IFALS
F1 Long Transfer Screw for Angled FlatOne® Abutment	IFALS2

#### FlatOne® Transfers

Product Description	Ref. No.
F1 Abutment Transfer, Narrow, w/Retaining Screw	IFANT
F1 Abutment Transfer, w/Retaining Screw	IFAT
F1 Open Tray Transfer, Narrow	IFONT
F1 Open Tray Transfer	IFOT

#### FlatOne® Retaining Screws

Product Description	Ref. No.
F1 Abutment Screw	IFARS
F1 Clinical	IFARS2
F1 Retaining Screw for Angled FlatOne® Abutment	IFARS3

LABORATORY

LABORATORY FLATONE® COMPONENTS

FlatOne® Analogs

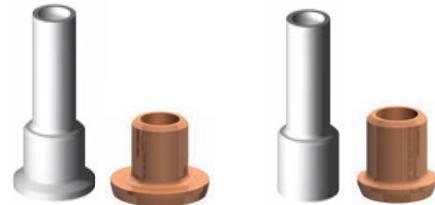
Product Description	Ref. No.
F1 Abutment Analog	IFAA
F1 Abutment Analog, Narrow	IFANA



IFAA IFANA

FlatOne® Cylinder Analogs

Product Description	Ref. No.
F1 Abutment, Narrow, Short Cyl Analog + Castable Cylinder	FANSCBA
F1 Abutment, Short Cyl Analog + Castable Cylinder	FASCBA



FASCBA FANSCBA

FlatOne® Cylinders

Product Description	Ref. No.
F1 Abutment Plastic Cylinder, w/Retaining Screw	IFAPC
F1 Abutment Plastic Cylinder, Narrow, w/Retaining Screw	IFANPC
F1 Abutment Narrow Short Titanium Cylinder + Lab Screw	FANSTC
F1 Abutment Short Titanium Cylinder + Lab Screw	FASTC
F1 Abutment Titanium Cylinder (Not Shown)	IFATC
F1 Abutment Titanium Cylinder, Narrow (Not Shown)	IFANTC



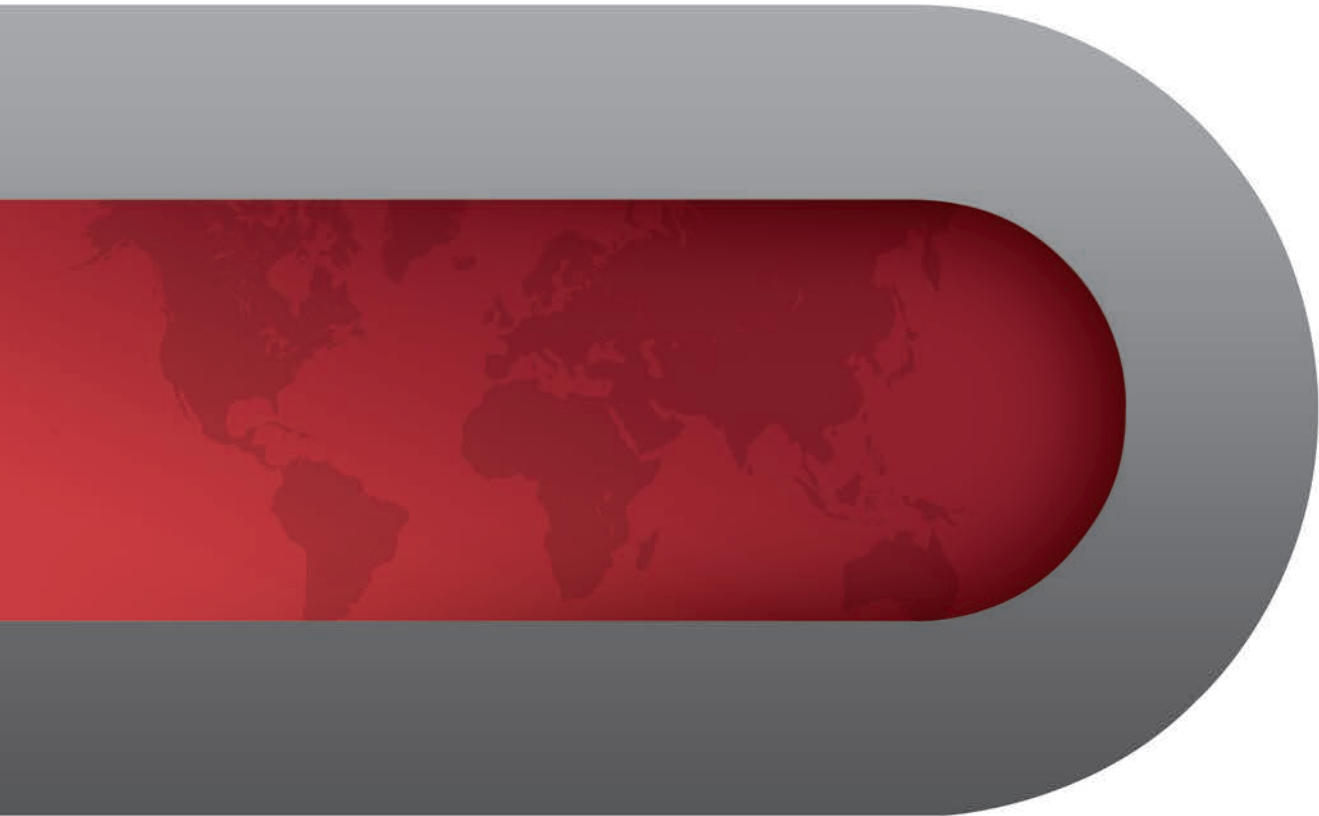
IFAPC IFANPC FANSTC FASTC

FlatOne® Retaining Screws

Product Description	Ref. No.
F1 Abutment Srew	IFARS



IFARS



*Better Ideas™* 



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