

TruAbutment All-on-T Plus

Custom Solution for Edentulous Patients







The partial bar-shaped abutments increase the support area for the arch.



AOT Plus abutment may be utilized directly with overdentures without the need for a ti-base cementation.

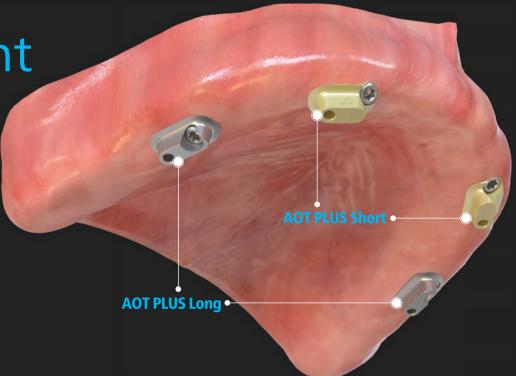


By eliminating the use of ti-bases, the overdenture height may be minimized to compensate for the vulnerability of the arch design.

*Secondary screw can be torqued up to 25N•cm

The margin of error may be minimized with a wider surface of the scan body.

TruAbutment **DIGITAL** SOLUTION



AOT PLUS Spec [unit: mm]



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workflow

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workflow

AOT PLUS CLINICAL CASES

Case credit to Dr. Donnie Murry
Murry & Kuhn Dentistry (VA)

Immediate Provisional Restoration



















AOT PLUS CLINICAL CASES

Case credit to Dr. Donnie Murry
Murry & Kuhn Dentistry (VA)

Final Restoration



















AOT PLUS **COMPONENTS**



AOT PLUS COMPONENTS



AOT Plus Impression Screw



*1 Set = 5 Units

Type	Item Code	
Hex 1.2	AOTP-SIWH12(5)	
Hex 1.25	AOTP-SIWH(5)	
Torx	AOTP-SIWT(5)	
Unigrip	AOTP-SIWU(5)	
GM	AOTP-SIWGM(5)	

AOT Plus Screw



*1 Set = 5 Units

Туре	Item Code
Hex 1.2	AOTP-SBSH12(5)
Hex 1.25	AOTP-SBSH(5)
Torx	AOTP-SBST(5)
Unigrip	AOTP-SBSU(5)
GM	AOTP-SBSGM(5)

SHORT

AOT Plus Scan Body



Type	Item Code	
Hex 1.2	AOTP-SSBH12	
Hex 1.25	AOTP-SSBH	
Torx	AOTP-SSBT	
Unigrip	AOTP-SSBU	
GM	AOTP-SSBGM	



Item Code



AOT Plus Conversion Scan **Body**

Item Code

AOT Plus Block

Out Space

*1 Set = 10 Units

Item Code



LONG

AOT Plus Scan Body



Type	Item Code
Hex 1.2	AOTP-SBH12
Hex 1.25	AOTP-SBH
Torx	AOTP-SBT
Unigrip	AOTP-SBU
GM	aotp-sbgm





Item Code

AOT Plus Block Out Space

*1 Set = 10 Units

Item Code AOTP-BOS



AOT PLUS **SERVICE LIST**

Compatible with		Recommended Torque Value (Final Restoration)	
Manufacturer	Brand	Abutment Screw Torque Rate (Max)	AOT Plus Screw Torque Rate (Max)
BioHorizons	Internal 3.0 Internal 3.5 Internal 4.5 Internal 5.7	30N•cm	20N•cm
Dentsply Sirona	Astra Tech™ OsseoSpeed® EV 3.0 Astra Tech™ OsseoSpeed® EV 3.6 Dentsply Sirona Astra Tech™ OsseoSpeed® EV 4.2 Astra Tech™ OsseoSpeed® EV 4.8 Astra Tech™ OsseoSpeed® EV 5.4		20N•cm
Hiossen (Osstem)	Hiossen (Osstem) ET (TS) Mini ET (TS) Regular		20N•cm
MegaGen	AnyRidge	30N•cm	20N•cm
Neodent	GM	25N•cm	20N•cm
Nobel Biocare	NobelActive™ NP NobelActive™ RP NobelActive™ WP	35N•cm	20N•cm
Straumann	Bone Level SC Bone Level NC Bone Level RC	25N•cm 35N•cm 35N•cm	20N•cm
	BLX RB	35N•cm	20N•cm
Zimmer Biomet	Eztetic 3.1 TSV 3.5 TSV 4.5 TSV 5.7	30N•cm	20N•cm
URIS	OMNI Narrow OMNI Regular	20N•cm 30N•cm	20N•cm

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AOT PLUS CHECKLIST

Preoperative Precautions (check before surgery)

- 1. Occlusal clearance & gingival thickness
- 2. Bone quality
 - Bone quality type D1~D3.
 - Note the Hounsfield unit on CBCT if necessary.
- 3. Components & Parts
 - Provisional arch.
 - AOT Plus Custom abutments.
 - AOT Plus components as needed.

Precautions for clinical application (immediate loading)

Risks of implant failure may include minimal bone contact area on extraction sites and limited initial stability of implant with softer bone type (i.e. D4).

Day of the Surgery

- 1. Measurement of occlusal clearance & gingival thickness
 - It is recommended to select an appropriate fixture for each preoperative site in advance.
 - Determine the depth of implantation according to the ginigival thickness.
- 2. Initial stability
 - Insertion torque is recommended at least 30 to 40N•cm.

Immediate / Delayed Provisional Restoration

- Utilize rubber dams to prevent contamination on surgical/implant site.
- Apply appropriate relining material to the provisional arch.

Last Check-Up Before the Final Prosthesis Delivery

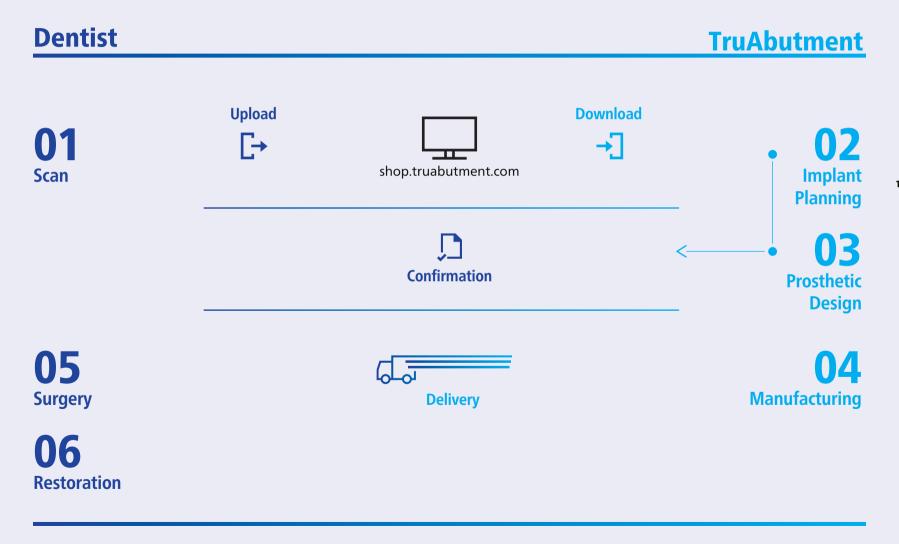
- Check implant stability and proper seating of prosthesis.

AOT PLUS WORKFLOW Immediate Restoration



Immediate Restoration

Provisional arch delivery immediately after guided implant surgery





1) Reline the Denture

A denture must be relined accurately to reach the full depth of the sulcus and to be stable on the mucosa.

2) Attach the Radiopaque Markers

Attach 3 radiopague markers on buccal and 3 additional on lingual/palatal surface.

3) CBCT Scan of Patient Wearing a Denture

Place cotton rolls or bite index on each side of occlusal and instruct patient to remain still while taking CBCT. The key is to separate the opposing arch, secure the fit of dentures onto the soft tissue, and eliminate rocking.

4) CBCT Scan of Denture

Scan the existing denture by itself.





Prosthetic Design





*After TruAbutment designs the prosthesis, the customer will confirm the final design.

Library Name	Cement gap
Closed Temporary	120 Micron
Opened Temporary	120 Micron
Closed type	
Opened type	

Library Choice





05 Surgery

After receiving the Surgical Guide,

the client needs to disinfect the surgical kit and guide, as instructed in Instruction for Use (IFU).

Following the completion of all preparations,

the operation may be performed according to the surgical protocol provided.



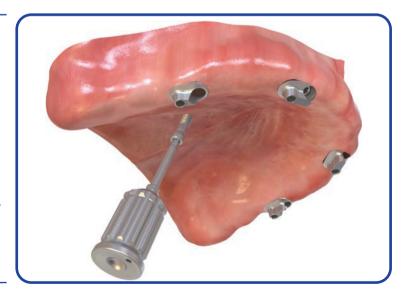


Once the operation has been successfully completed

and it is determined that the proper torque value has been obtained for each implant, install custom abutments (AOT Plus).

Given that this is a same day immediate loading temporization, the tightening torque value of AOT Plus screws should not exceed 15N•cm.

*Must be lower than the final fixture torque rate.

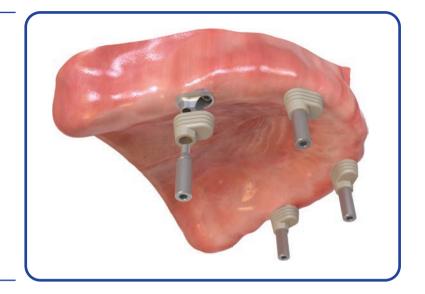


06-2 Restoration

Install the scan body before installing the provisional arch.

*If you use the AOT Plus Impression Screw instead of the AOT Plus Scan Body Screw, it is easier to remove the screw after composite filling.

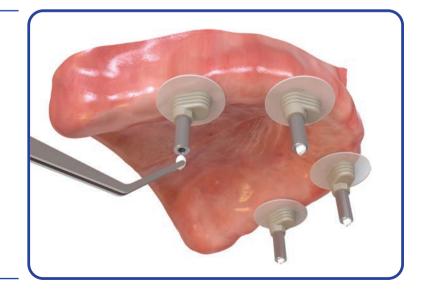
The recommended torque rate is 10N•cm.





Place a block out space jig to prevent temporary resin and impression material from seeping into the gum.

*Seal the impression screw hole with cotton or Teflon tape.





Apply temporary cement or flowable composite to the prepared provisional arch.



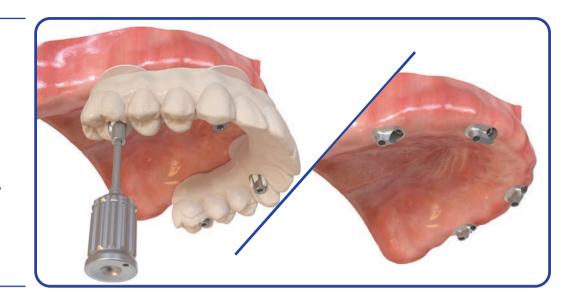


Deliver the provisional arch.





Once the temporary cement or flowable composite has set, loosen the impression screw using a screwdriver and remove the provisional arch from the oral cavity.



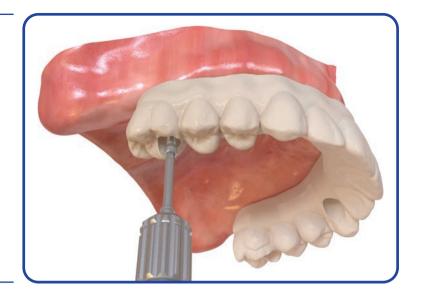


Fill the voids in the provisional arch around the scan body with a flowable resin and cure it with a curing light.





Deliver the provisional arch to the patient again. The recommended torque rate is 10N•cm.

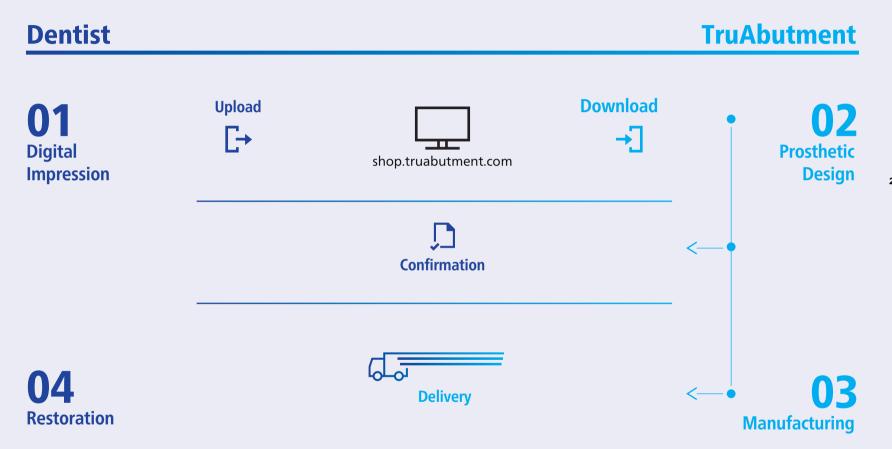


AOT PLUS WORKFLOW **Delayed Restoration**



Delayed Restoration

Provisional arch delivery 3-6 months after the implant surgery



Digital Impression



Fixture Level Scan

Engage TruScan Bodies at fixture level either intraorally or on a model.



Gingival Scan

Scan the gingiva of the patient or of the model without TruScan Bodies engaged.



Opposing Scan

Scan the opposing arch of the restoration site.



Bite

Scan of the bite of both upper and lower arch.







After TruAbutment designs the prosthesis, the customer will confirm the final design.





Cement gap

120 Micron



Library Name

Closed Temporary









Refer to steps "6 Restoration" on pages 15~19.

AOT PLUS WORKFLOW Final Restoration



Verification & Final Restoration Options

- •Open Tray Impression Technique
- •Conversion Scanbody Technique
 - •Intraoral Scan Technique

^{*} TruAbutment or the customer will design and manufacture the final arch after receiving the AOT Plus seated file.

Open Tray Impression Technique

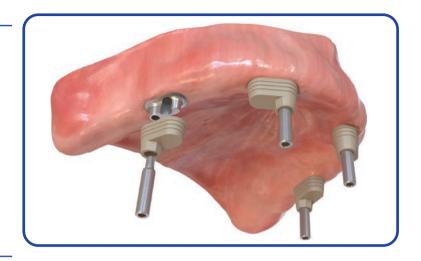
01

Engage Scan Body & Impression Screws

Install the scan body before installing the provisional arch.

*If you use the AOT Plus Impression Screw instead of the AOT Plus Scan Body Screw, it is easier to remove the screw after composite filling.

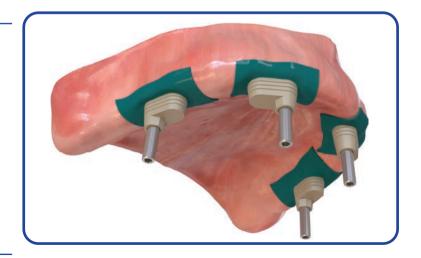
The recommended torque rate is 10N•cm.





Place a Rubber dam to prevent temporary resin and impression material from seeping into the gum.

*Seal the impression screw hole with cotton or Teflon tape. After that, an oral impression is taken with an open tray.



03

Use a custom tray and prepare holes that will line up with the transfers when the impression is taken. Block out holes on top of the screws with wax or Teflon tape.



04

Place light to medium body impression material around transfers and record a full-arch impression with medium body material. The screws will protrude through the tray.

With the tray still in place, unscrew and remove all the retaining screws. Then remove tray, capturing the transfers in the impression material.



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After removing the impression tray, connect the implant replicas to the transfers which are still in place in the impression material.



Conversion Scan Body Technique

01 Engage Conversion Scan Body

After relining and adjusting the temporary prosthetics to patient's current condition, engage the conversion Scan Body to for data collection.



02 Scan Arch with Scan Body

Scan the temporary prosthesis with the conversion scans, and scan current soft tissue, opposing arch, and buccal scan for data reference. Submit order with the scans for final verification or restoration design.



Intraoral Scan Technique



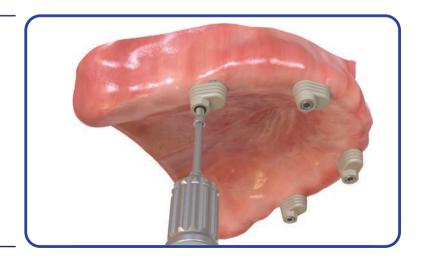


02 Engage Scan Bodies

After the healing process, remove the provisional arch and engage the AOT Plus Scan Body.

The recommended torque rate is 10N•cm.

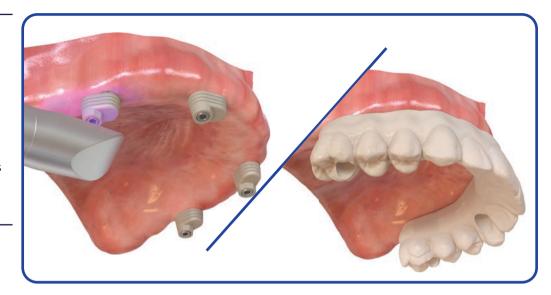
*Precautions: if severe fixture failure and gum deformation prevent you from using the initial AOT Plus abutments, you must redesign the abutments from new scan data at the fixture level.



Intraoral Scan

Digital Impression (Prep/Antagonist/Buccal)

Redeliver the provisional arch after removing AOT Plus Scan Body. Patient will return to the office for the final prosthesis delivery.



Library Choice		
Library Name	Cement gap	
Final Arch	90 Micron	



Final prosthesis is fabricated and fitted to the patient.

The recommended torque rate is 20N•cm.

