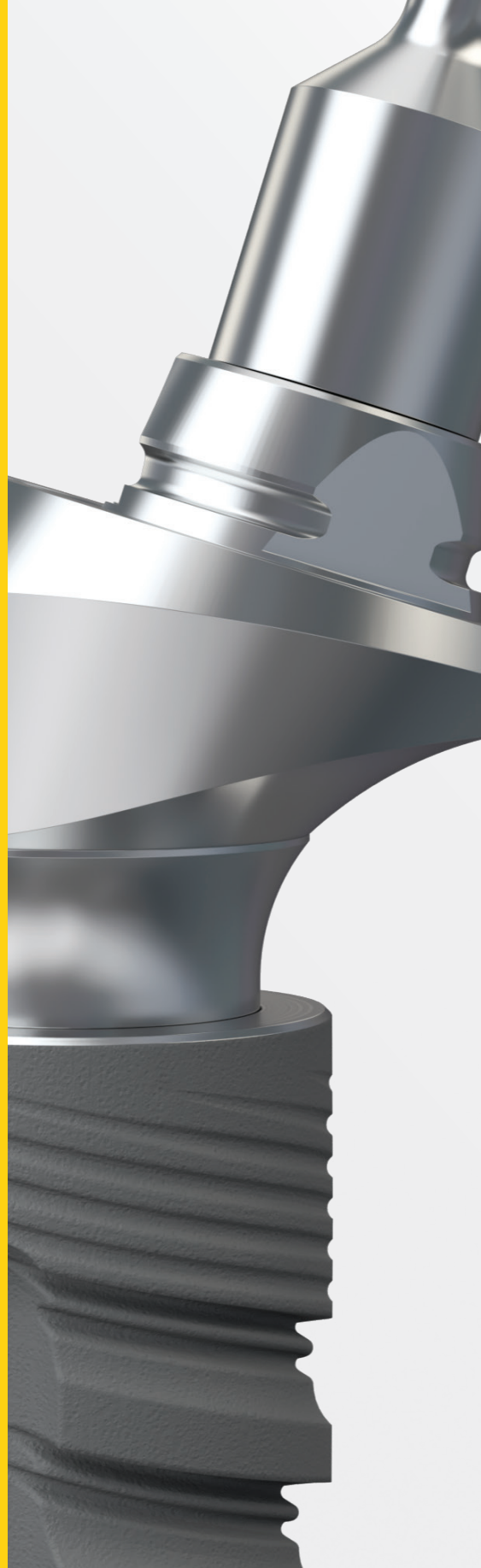


ALPHA UNIVERSE

MULTI UNIT
ABUTMENTS

Healthier & Improved Aesthetics



Alpha-Bio Tec introduces a comprehensive screw-retained line for restorations on straight and tilted implants. The system provides stability, durability and high reliability while preserving the soft tissue and the bone. It is planned to facilitate the work of both the dentist and the technician.

The new AlphaUniverse Multi Unit system is intended for use in various clinical procedures in the maxilla and mandible, for partial or full edentulous restoration.

FEATURES AND BENEFITS:

Following a meticulous research and development, Alpha-Bio Tec's new prosthetic parts are designed to simplify the work of the dentist. In addition, the system provides several key benefits:

Easy handling

- one-piece abutments, straight and angled
- bendable metal holder for easier delivery



Hard and soft tissue preservation

- concaved design promotes soft tissue healing and adaptation
- maintaining long term soft tissue stability
- a unique, narrower design makes the implant-abutment-soft tissues connection intact.

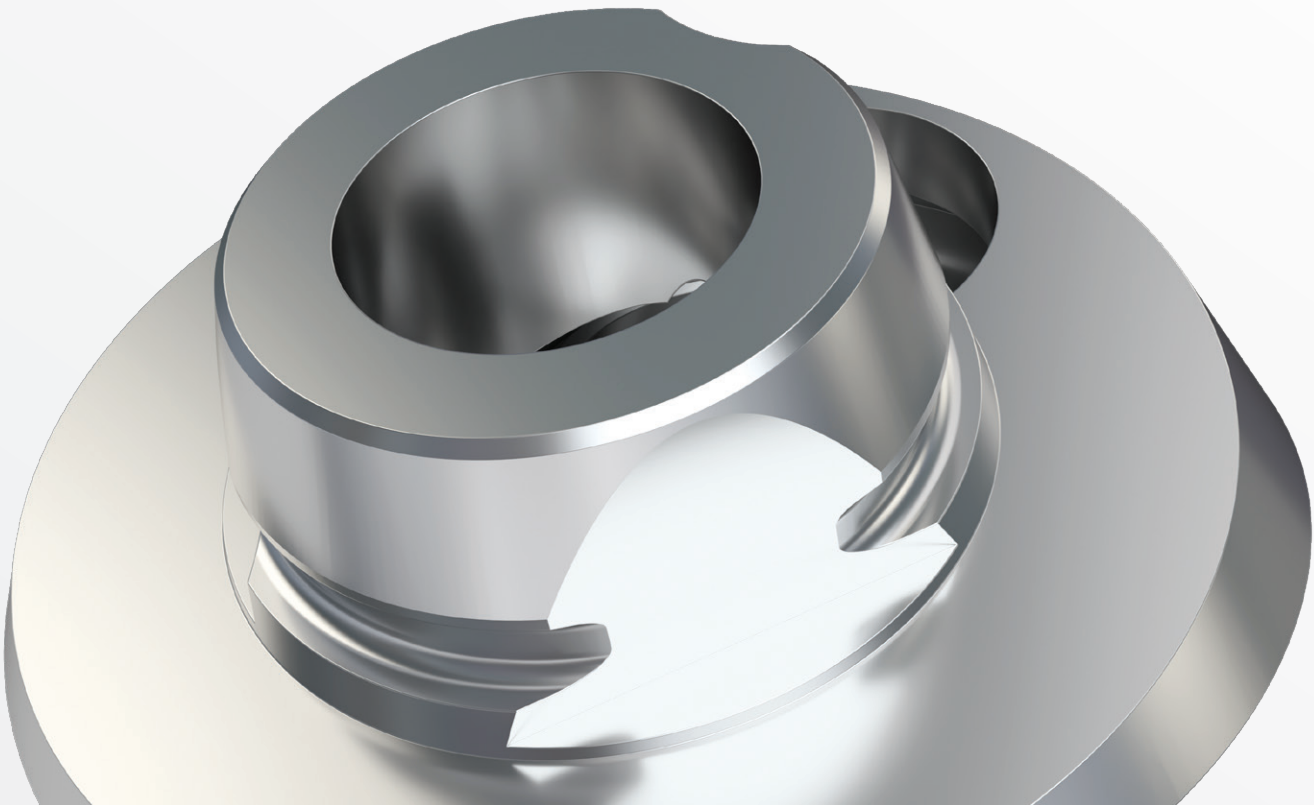


Large variety of heights*

- six heights for straight abutments and three heights for angled abutments*
- two mostly used angles for tilted implants (17° and 30°)
- availability of restoration parts for both internal hex (IH) and conical hex (CHC) connections

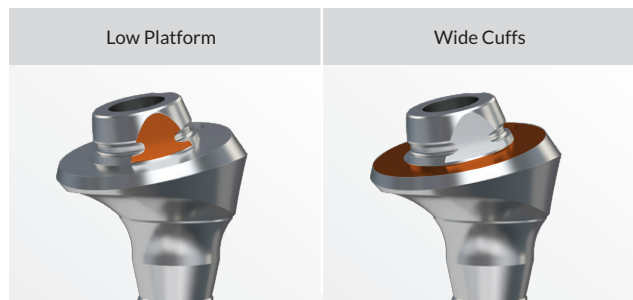


* see ordering information on page 17



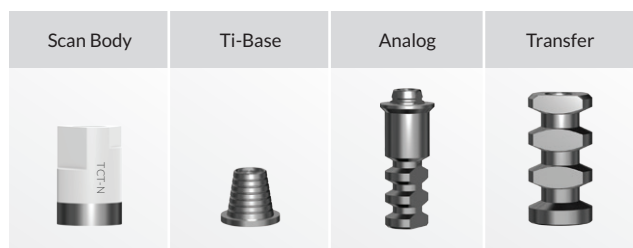
Well proven, stable prosthetic platform

- long term durability
- a wide prosthetic cuff enables the use of thicker Porcelain crowns for stronger, more esthetic results
- low platform for limited intermaxillary space



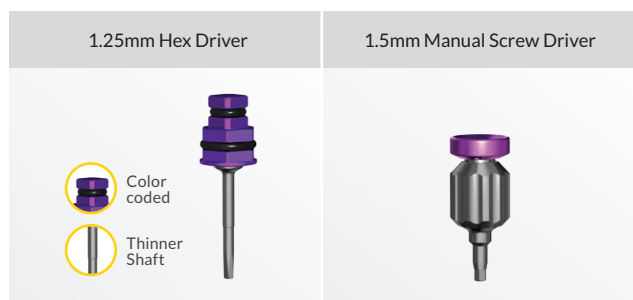
Keeping the familiar prosthetic parts

- CAD/CAM restoration is available
- allowing the use of the existing, well-proven, restoration parts
- enabling to proceed with the same known workflow



Prosthetic tools:

- **1.25mm drivers:**
 - new thin shaft design
 - purple colored for easy identification
- **1.5mm drivers:**
 - for straight abutment insertion



Multi Unit Restoration

Multiple Implant Restoration



For implants with up to 30° diversion between them



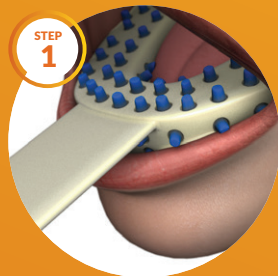
17° or 30° angled abutments for aligning the prosthetic platform when using tilted implants

Single Implant Restoration



For single unit screw-retained restorations

Multiple Implants Restoration **Workflow***



Impression Taking



Model Forming and Prosthetics Simulation



Final Metal Frame Preparation



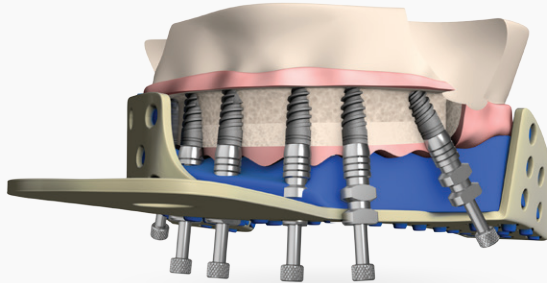
Final Restoration Placement

* The workflow is the same for both internal hex and conical hex connections. SPI implants were used in this models.

STEP 1 Open Tray Impression on Implant Level

A

CLINIC



Impression taking on implant level should be applied when there is an uncertainty about which abutment to use (straight, angled or which height). In these cases, the decision will be done by the doctor or technician after creating the casting model.

Working steps for the physician:

1. After osseointegration, place the transfers over the implants.
2. Connect the transfers manually to the implants with the 1.25mm driver.
3. Take an impression with materials of your choice, and send it to the laboratory.

NOTE: The implant analogs can be attached to the transfers by either the doctor or the lab technician.

Parts & Tools

Transfers

Open Tray

Close Tray

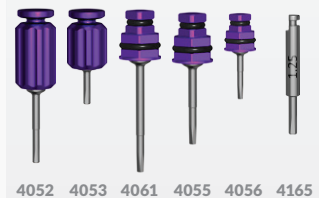


1.25mm Drivers

Manual Drivers

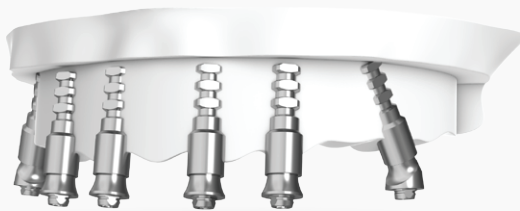
Hex Drivers

Contra Angle



B

LAB



Working steps for the technician

1. Place and connect the appropriate implant analogs to the transfer.
2. Create a working model.
3. Choose the parts to be used for the specific case (heights and angulation).

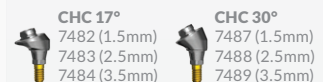
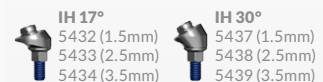
NOTE: If a closed tray impression was taken, the implant should be attached to the transfer outside the impression tray and carefully inserted into its place.

Parts & Tools

Analog



Angled abutments



Straight abutments

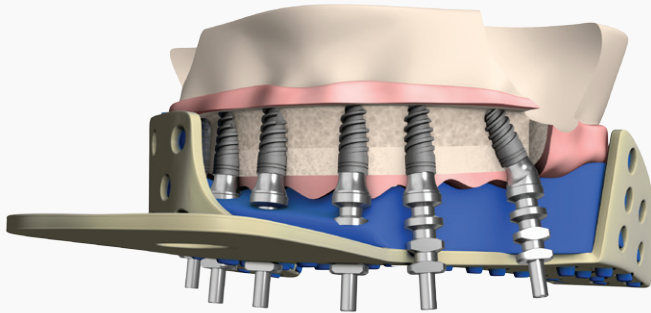


STEP 1

Open Tray Impression **on Abutment Level** (preferred)

A

CLINIC



Before taking the impression, attach the abutments to the implants.

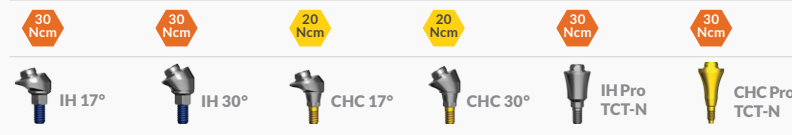
NOTE: It is advised to insert the 1.5mm angled abutment's screw **simultaneously** while connecting the abutment to the implant

For **classical impression** it is preferable to use the open tray transfer technique. The transfers may be connected in between rigidly by Resin or Acryl.

For **digital intraoral scanners** use scan bodies on top of the TCT platforms.

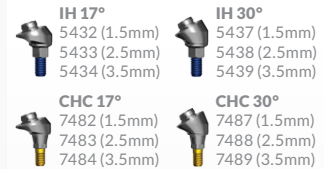


Dual use scan body (5003)

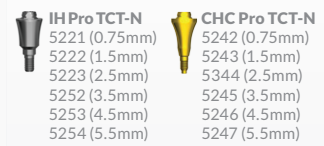


Parts & Tools

Angled abutments



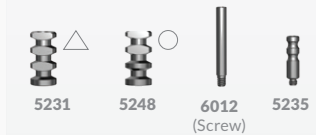
Straight abutments



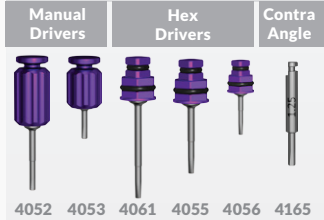
Transfers

Open Tray

Close Tray

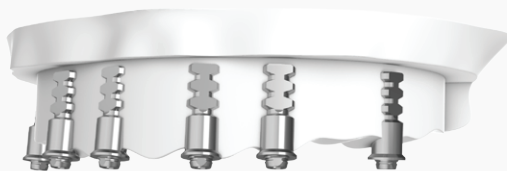


1.25mm Drivers



B

LAB



Parts & Tools

Analog



Classical method

1. Place and connect the analogs manually to the transfers prior casting the model.
2. Create a working model.

Digital intraoral methods

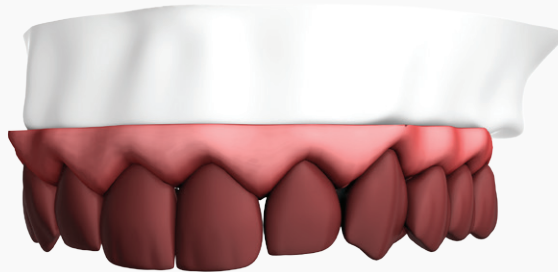
1. Create a physical working model.
- OR
2. Design the entire restoration digitally.

STEP 2

Model Forming and Prosthetic Simulation

A

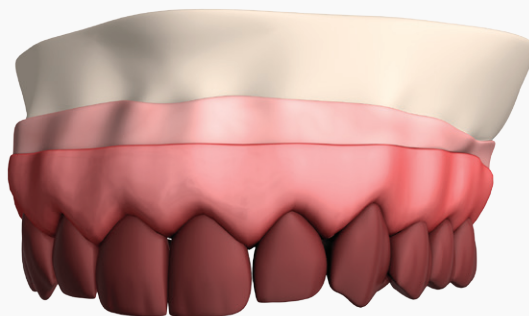
LAB



A final layout of the bridge is designed and created for physicians check. Can be formed in the materials of choice such as wax-up, resins or acrylics.

B

CLINIC



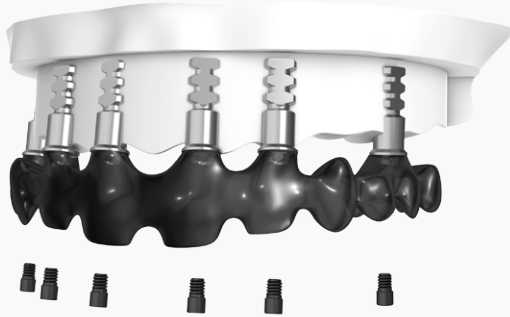
The proposed design layout is checked by the physician to achieve the highest esthetic appearance and functionality.

STEP 3

Final Metal Frame Formation and Check (Continued from abutment level)

A

LAB



The framework is designed according to the approved layout (on steps 2A+B).

The technician should leave approximately 1.5mm for the ceramics.

For **classical restoration** the framework can be casted using casting sleeves.

For **digital restoration** the framework is done by milling or printing. In this case, various materials such as metals or Zirconia can be used. The framework can be connected directly to the abutments or through adhesive coping.

NOTE: The technician should work according to the STL libraries in his milling / printing machines.

Parts & Tools

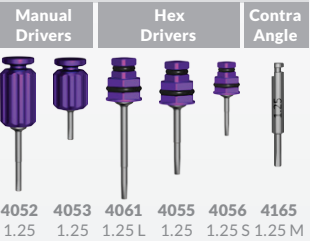
Casting Sleeves



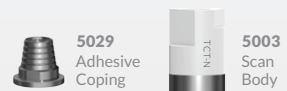
Screw Fixation



1.25mm Drivers

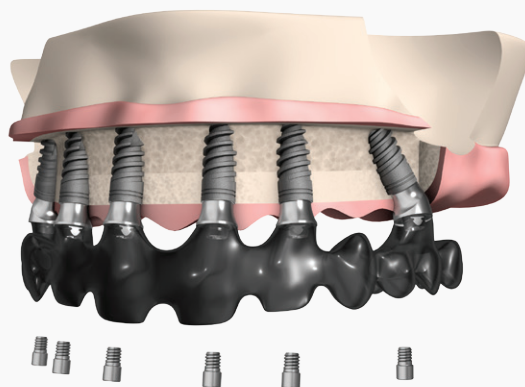


CAD\CAM Restoration



B

CLINIC



The framework is checked for passive fit in patient's mouth.

Parts & Tools

Screw Fixation



STEP 4

Final Restoration

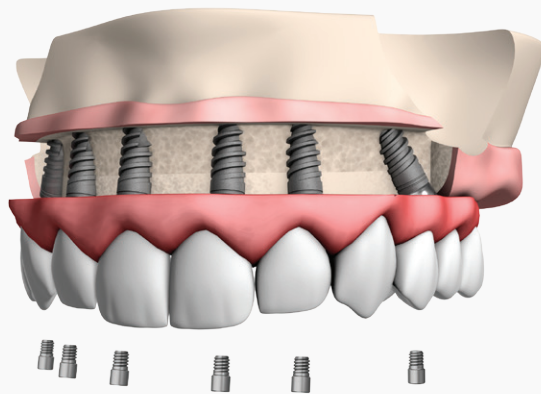
A

LAB

The technician is finalizing the restoration with ceramics or materials of choice.

B

CLINIC



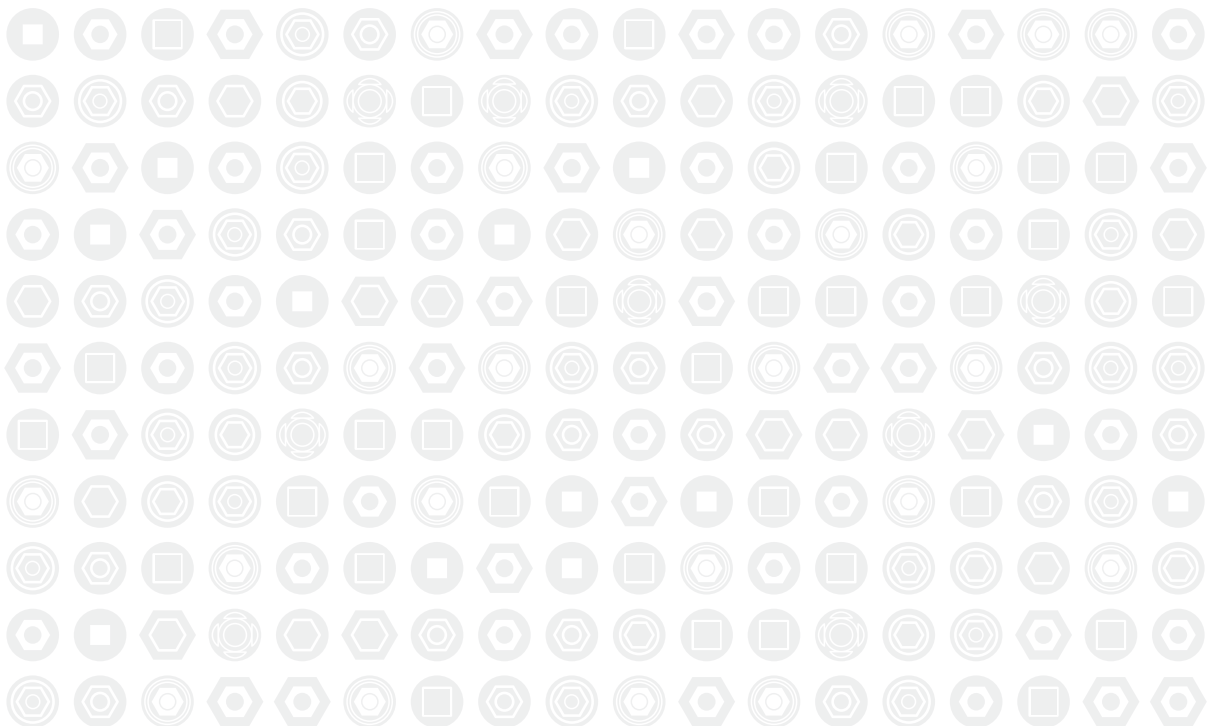
The final restoration is placed in patient's mouth.

Parts & Tools

Screw Fixation




6092
SF-N




Multi Unit Restoration

Multiple Implant Restoration




For implants with up to 30°
diversion between them




17° or 30° angled abutments for
aligning the prosthetic platform
when using tilted implants

Single Implant Restoration



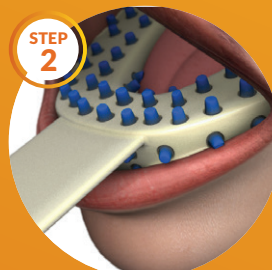
For single unit screw-retained
restorations

Single Implant Restoration Workflow




STEP 1

Oseointegrated Implant with
Healing Abutment




STEP 2

Impression Taking*




STEP 3

Working Model Formation*




STEP 4

Optional
Checking Abutment Height




STEP 5

Casting Sleeve Placement




STEP 6

Metal Cast Check-up



STEP 7

Final Restoration Placemant



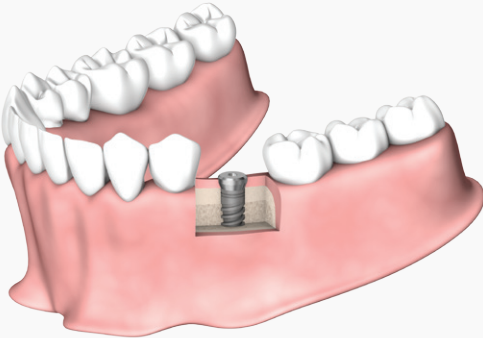
* Stages 2-3 can be done based on digital intraoral methods using a scan body.

Single Tooth Restoration - HBC Abutments System

The HBC Abutment system includes Ø4.7 mm abutment diameter with cuff heights of 0.5 ,1.5 or 2.5 mm
For best results please follow the work flow as followed:

STEP 1 Oseointegrated Implant with Healing Abutment

CLINIC



Connect the appropriate healing abutment after implantation.

Parts & Tools

Healing Abutment

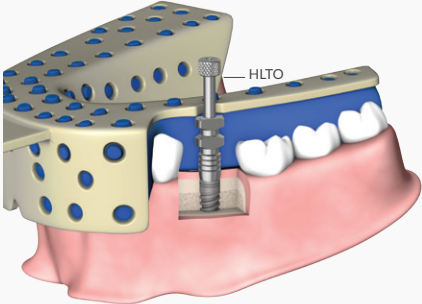
<p>Ø 3.85 mm 112 (3mm) 114 (4mm) 115 (5mm)</p> <p>Ø 4.6 mm 116 (2mm) 109 (3mm) 117 (4mm) 110 (5mm) 118 (6mm) 119 (7mm)</p>	<p>Ø 5 mm 124 (3mm) 125 (5mm)</p> <p>Ø 5.5 mm 126 (3mm) 127 (5mm)</p> <p>Ø 6 mm 128 (3mm) 129 (5mm)</p> <p>Ø 7 mm 130 (3mm) 131 (5mm)</p> <p>Ø 7.8 mm 132 (3mm) 133 (5mm)</p>
--	---

1.25mm Drivers

Manual Drivers	Hex Drivers	Contra Angle
4052	4053	4061
4055	4056	4165

STEP 2 Impression Taking

CLINIC



1. Select the transfer according to the working method of your choice – closed/open tray impression.
2. Place the transfer over the implant.
3. Connect the transfer to the implant manually.
4. Take an impression with materials of your choice and send it to the lab.

NOTE: For HBC the impression should be taken at the implant level.
The analog can be attached to the transfer by either the doctor or the lab technician.

Parts & Tools

HBC Transfers

Closed Tray Transfers

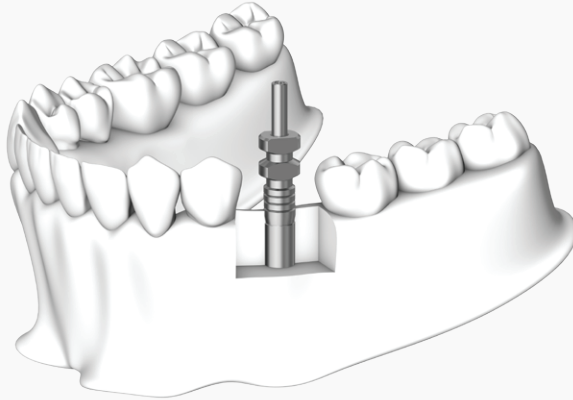
5060	5170	5062

Open Tray Transfers

5061	5171	5070	5172

STEP 3 Working Model Formation

LAB



Parts & Tools

Implant Analog

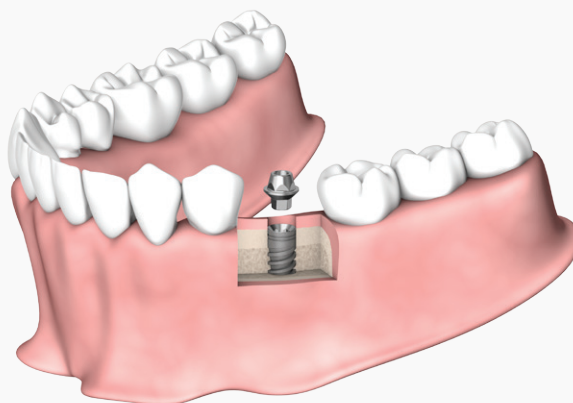


Connect an analog to the transfer.

NOTE: Should a closed tray impression was taken, the abutment should be attached to the transfer outside the impression tray and carefully inserted into the implant. The transfer definite position should be verified.

STEP 4 Checking Abutment Height (Optional)

CLINIC



Parts & Tools

HBC Abutments

Available Cuff Heights:



6040
0.5mm



6041
1.5mm

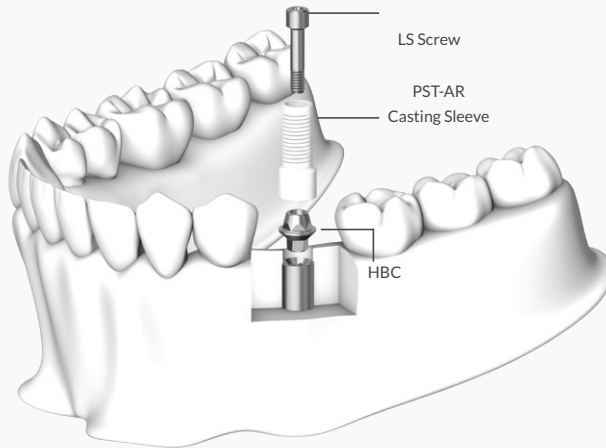


6042
2.5mm

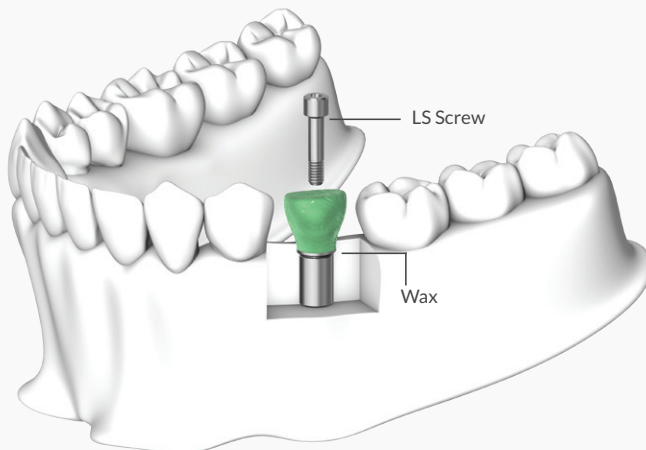
1. Remove the healing cap.
2. Select the appropriate abutment.
3. Place the abutment manually over the implant for checking the gingival height. The abutment cuffs should be 0.5 to 1mm below the gingival height.

STEP 5 Casting Sleeve Placement

LAB



1. Manually connect the casting sleeve with the appropriate LS screw, according to the HBC abutment height. Use the **1.25mm driver**.



2. Create the framework and cast it.

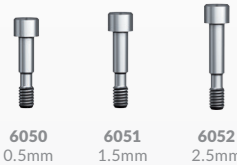
Parts & Tools

HBC Casting Sleeve



NOTE: should be Anti-rotational

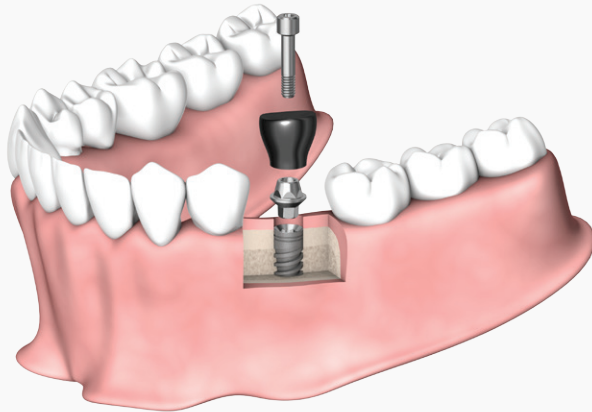
LS Screws



NOTE: Other options include metal printing or milling. HBC Screws lengths are applicable to HBC heights.

STEP 6 Metal Cast Check-up

CLINIC



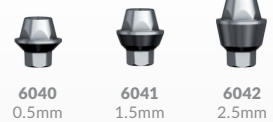
1. Remove the healing abutment.
2. Check perfect passive fit between the metal cast and the abutment.
3. Send the metal cast to the lab with further instructions.
4. Re-connect the healing abutment.

NOTE: Other options include metal printing or milling.

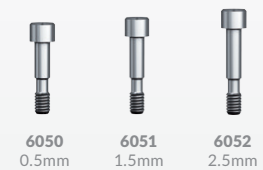
Parts & Tools

HBC Abutments

Available Cuff Heights:



LS Screws



STEP 7 Final Restoration Placement

CLINIC



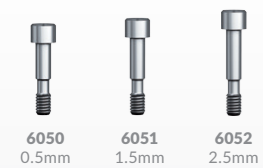
1. Remove the healing abutment.
2. Attach the final restoration to the implant with an LS screw with a 1.25mm driver.
3. Check the fittings to the soft tissue and the antagonist teeth (balance the occlusion if necessary).
4. Close with 30Ncm torque.

NOTE: Screw-retained restoration on a single implant can also be done with CoCr abutments. Please refer to the main catalog for ordering information.

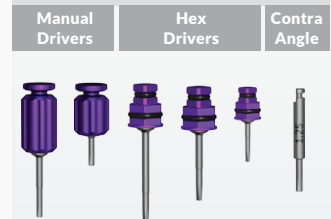
Parts & Tools

LS Screw

Available Heights:



1.25mm Drivers

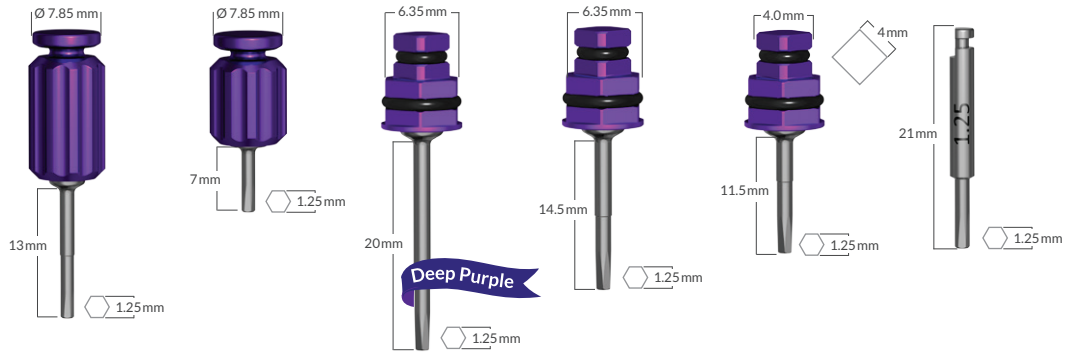


4052 1.25 4053 1.25 4061 1.25 L 4055 1.25 4056 1.25 S 4165 1.25 M

Insertion Tools

Hex Driver 1.25 mm (Stainless Steel)

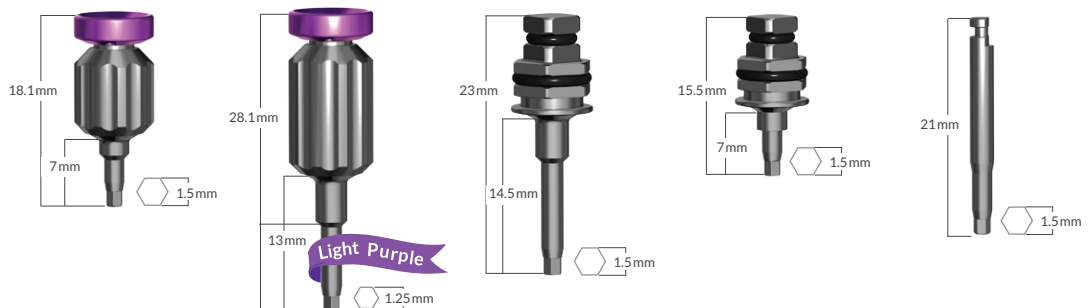
	Manual Screw Driver	Short Manual Screw Driver	Long Hex Driver	Hex Driver	Short Hex Driver	Contra Angle Motor Mount
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Code	HHS 1.25	HHSS 1.25	HTD 1.25L	HTD 1.25	HTD 1.25 S	HT 1.25M
Ref. No.	4052	4053	4061	4055	4056	4165


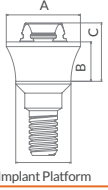






Hex Driver 1.5 mm (Stainless Steel)


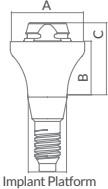






	Manual Hex Driver	Long Manual Hex Driver	Hex Driver	Short Hex Driver	Motor Mount Hex Driver
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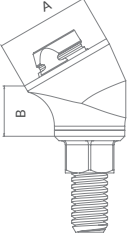






Code	HHS 1.5	HHL 1.5	HTD 1.5	HTD 1.5S	HT 1.5
Ref. No.	4059	4060	4057	4058	4168


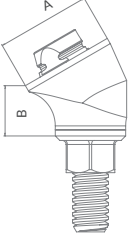






Pro TCT-N Straight Abutments – For restoration up to 30°

	Pro TCT-N Abutment System (Internal Hex) 					
						
Dimensions	A: Ø4.7 mm B: 0.75 mm C: 1 mm	A: Ø4.7 mm B: 1.6 mm C: 2.8 mm	A: Ø4.7 mm B: 2.6 mm C: 3.8 mm	A: Ø4.7 mm B: 3.6 mm C: 4.8 mm	A: Ø4.7 mm B: 4.6 mm C: 5.8 mm	A: Ø4.7 mm B: 5.6 mm C: 6.8 mm
Code	TCT0.5-N	TCT1.5-N	TCT2.5-N	TCT3.5-N	TCT4.5-N	TCT5.5-N
Ref. No.	5221	5222	5223	5252	5253	5254

	TCT-N CHC (Conical Hex) 					
						
Dimensions	A: Ø 4.7 mm B: 0.75 mm C: 1.95 mm	A: Ø 4.7 mm B: 1.5 mm C: 2.7 mm	A: Ø 4.7 mm B: 2.5 mm C: 3.7 mm	A: Ø 4.7 mm B: 3.5 mm C: 4.7 mm	A: Ø 4.7 mm B: 4.5 mm C: 5.7 mm	A: Ø 4.7 mm B: 5.5 mm C: 6.7 mm
Code	TCT-N 0.75 CHC	TCT-N 1.5 CHC	TCT-N 2.5 CHC	TCT-N 3.5 CHC	TCT-N 4.5 CHC	TCT-N 5.5 CHC
Ref. No.	5242	5243	5244	5245	5246	5247

Angled Abutments

	Angled Abutments (Internal Hex) 					
						
Degree	17°			30°		
Dimensions	A: Ø 4.7 B: 1.5 mm	A: Ø 4.7 B: 2.5 mm	A: Ø 4.7 B: 3.5 mm	A: Ø 4.7 B: 1.5 mm	A: Ø 4.7 B: 2.5 mm	A: Ø 4.7 B: 3.5 mm
Code	AU 17-1.5 IH	AU 17-2.5 IH	AU 17-3.5 IH	AU 30-1.5 IH	AU 30-2.5 IH	AU 30-3.5 IH
Ref. No.	5432	5433	5434	5437	5438	5439

	Angled Abutments (Conical Hex) 					
						
Degree	17°			30°		
Dimensions	A: Ø 4.7 B: 1.5 mm	A: Ø 4.7 B: 2.5 mm	A: Ø 4.7 B: 3.5 mm	A: Ø 4.7 B: 1.5 mm	A: Ø 4.7 B: 2.5 mm	A: Ø 4.7 B: 3.5 mm
Code	AU 17-1.5 CHC	AU 17-2.5 CHC	AU 17-3.5 CHC	AU 30-1.5 CHC	AU 30-2.5 CHC	AU 30-3.5 CHC
Ref. No.	7482	7483	7484	7487	7488	7489

Impression Taking and Healing Abutments



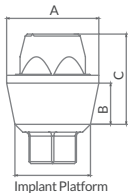
	Pro Healing Abutments			Open Tray Transfer			Closed Tray Transfer
Height	4 mm	6 mm	4 mm	10 mm	10 mm	13 mm	8.5 mm
Code	HCT4-N	HCT6-N	HCTB-N	TST-N	TCT-N-R	SFL-N	TS-N
Ref. No.	5236	5237	5241*	5231	5248	6012	5235
Instructions	Recommended closing torque: 10 Ncm. Use screw 6092.			Close manually			Close manually

	Analog	Temporary Abutment	Screw Fixation		Burnout Sleeve	
Material	Titanium	Titanium	Titanium	Titanium with coating	Plastic	Plastic
Code	BTT-N	TTA-N	SF-N	SFT-N	PST-N-AR	PST-N Non-Engaging
Ref. No.	5211	5216	6092	6093	5217	5218
Instructions		Recommended closing torque: 25 Ncm. Use screw 6092.	Use HTD 1.25 mm for insertion. Recommended closing torque for the final restoration on straight abutments: 25 Ncm.		Recommended closing manually only (without tool). Use screw 6093.	

HBC Abutment System







	HBC Abutment			Screws for HBC abutments			Burnout Sleeve
Dimensions	A: Ø4.7 mm B: 0.5mm C: 2.6mm	A: Ø4.7 mm B: 1.5mm C: 3.6mm	A: Ø4.7 mm B: 2.5mm C: 4.6mm	Use With	HBC 0.5	HBC 1.5	HBC 2.5
Code	HBC 0.5	HBC 1.5	HBC 2.5	Code	LS O.5	LS 1.5	LS 2.5
Ref. No.	6040	6041	6042	Ref. No.	6050	6051	6052
							PST-AR 6070


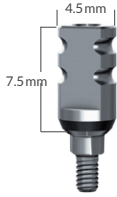
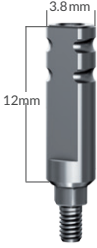
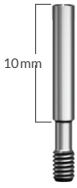


CAD/CAM Restoration

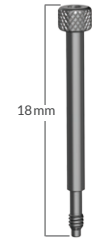
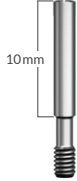


	Adhesive Copings		Dual Use Scan Body	Screw
	Engaged	Non Engaged		
				
Code	TAC-TCT-N	TAC-TCT-N-R	IOSB-TCT-N	S-DM-SR
Ref. No.	5028	5029	5003	4994
Instructions	For single tooth	For bar/bridge	For lab use and intra-oral	For direct mounting

Impression Taking

	Closed Tray Transfer			
	Standard		Slim	Screw
				
Code	HLT	HLTS	HLTLS	SHLT
Ref. No.	5060	5170	5062	5172

Note: each transfer is supplied with its corresponding screw.

	Open Tray Transfer			
				
Code	HLTO	HLTOS	LGP	SHLT
Ref. No.	5061	5171	5070	5172

Note: each transfer is supplied with its corresponding screw.



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