



**CadCam**  
Digital restoration line

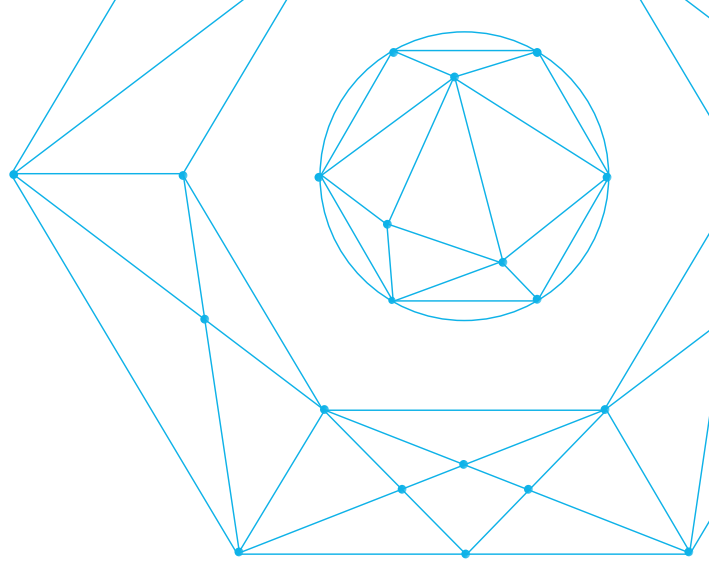


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Alpha-Bio's Digital

# CadCam Restoration Line

**Extending the art of Implantology, to your CAD/CAM restoration works, making it as simple as our implant systems.**

The technological changes taking place are truly revolutionizing the way dentistry is practiced and the manner in which laboratories are producing restorations.

The advent of CAD/CAM has enabled both dentists and laboratories to harness the power of computers to design and manufacture esthetic and durable restorations.

**Alpha-Bio Tec Introduces a comprehensive range of restoration products for your CAD/CAM restoration works.**



## ● Scan abutments

For accurate transfer of implant position to the CAD software. The scan abutments are used to capture the position, trajectory and rotation of the lab analogs in the working model. Using dental scanners, the scan abutments are registered optically and the digital information is used to produce individual abutments, and crown and bridge frameworks using Innovative CAD/CAM technology.

### Features:

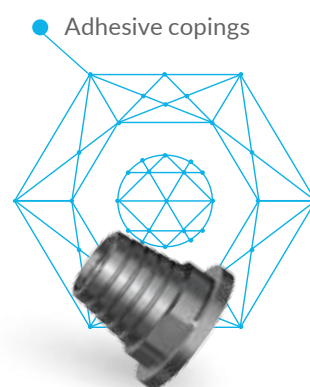
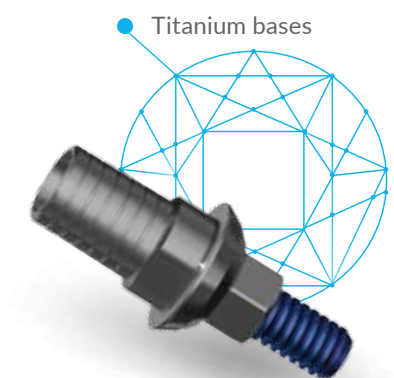
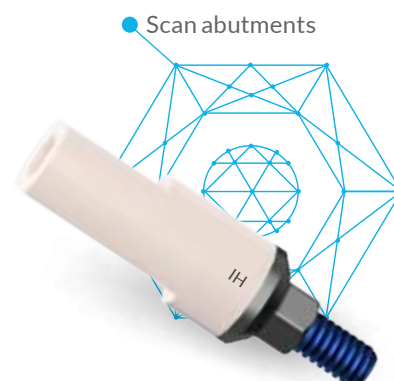
- PEEK body made of opaque material, **no anti-glare spray needed.**
- Titanium base for accurate long lasting use.
- Laser marks for easy identification.
- Integrated screw. **No risk of losing the screw.**
- Standard abutment screw – **No need for special driver.**
- Unique non symmetric geometry for easy scan.
- Supports Alpha-Bio Tec. implant platforms - Internal Hex and CHC (Conical Hex Connection).
- Support all relevant restoration levels (Implant platform, Screw retained level: TCT-N and TSA-N).
- Compatible with a wide range of CAD/CAM systems.

## ● Titanium bases and adhesive copings

Are used as bonding bases for CAD/CAM manufacturing of individual ceramic 2 parts (hybrid) abutments.

### Features:

- Produced with same exact tolerances as Alpha-Bio Tec. implants, ensuring best reliable implant to restoration fit.
- Support cemented and screw retained restoration.
- Support single tooth (engaged) and bridge (non-engaged) restorations.
- Supports all relevant restoration levels (Implant platform, Screw retained level: TCT-N and TSA-N)
- Compatible with wide range of CAD/CAM systems.
- Large bonding surface for high stability and reliable adhesion.
- Abutment screw included.



All products are available and supported by leading CAD/CAM system libraries including:

3shape

exocad



dental wings



AMANNGIRRBACH

egs

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## ORDERING INFORMATION

This catalog highlights Alpha-Bio Tec's comprehensive product offering with detailed descriptions, reference numbers and purchasing information. Products are categorized according to restoration method, with a complete list of relevant products required. All relevant products are listed for each method.

## RESTORING AT IMPLANT LEVEL - INTERNAL HEX

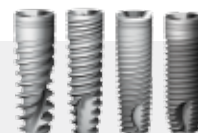
**RESTORATION LEVEL**  
IMPLANT LEVEL



**SUPPORTED PLATFORM**  
INTERNAL HEX



**SUPPORTED IMPLANTS**  
SPI, ICE, DFI, ATID



For more information about INTERNAL HEX product line please refer to the Alpha-Bio Tec. catalog

[www.alpha-bio.net](http://www.alpha-bio.net)

Ti Bases		Scan Body	
 <p>Implant platform</p>	<div><div>Engaged (single tooth)</div></div> <div><div>Non Engaged (Bridges/Bars)</div></div>		
Diameter	A: Ø4.5 mm B: 5 mm C: 5.7 mm D: 0.6 mm	A:Ø4.5 mm B: 5 mm C: 5.7 mm D: 0.7 mm	
Code	CCTB	CCTB-R	SBIH
Ref. No.	5024	5025	5019
Instructions	For single tooth restoration	For bar/bridge restoration	For use with both engaged and non engaged.

	Screws		Analog		
Code	STLAS	STLAT	IA	IA5	IA6
Ref. No.	5122	5121	5080	5280	5290
Instructions	Standard abutment screw (included in package)	For lab use (optional)	Choose according to implant diameter		

## RESTORING AT IMPLANT LEVEL - CHC (CONICAL HEX CONNECTION)

RESTORATION LEVEL  
IMPLANT LEVEL



SUPPORTED PLATFORM  
CHC



SUPPORTED IMPLANTS  
NICE



For more information about CHC product line please refer to the Alpha-Bio Tec catalog

[www.alpha-bio.net](http://www.alpha-bio.net)

Ti Bases		Scan Body
	Engaged (single tooth)	Non Engaged (Bridges/Bars)
Diameter	A: Ø3.8 mm B: 5 mm C: 5.7 mm D: 0.4 mm	A: Ø3.6 mm B: 5 mm C: 5.7 mm D: 0.5 mm
Code	CCTB-CHC	CCTB-CHC-R
Ref. No.	5026	5027
Instructions	For single tooth restoration	For bar/bridge restoration
		For use with both engaged and non engaged

Screw		Analog
Code	STLA-CHC	IA-CHC
Ref. No.	7345	7338
Instructions	Standard abutment screw (Included in package)	Suitable for all NICE diameters

## RESTORING AT TCT-N LEVEL - SCREW RETAINED

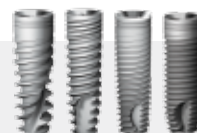
**RESTORATION LEVEL**  
TCT-N



**SUPPORTED PLATFORM**  
INTERNAL HEX

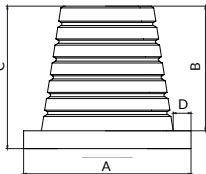





**SUPPORTED IMPLANTS**  
SPI, ICE, DFI, ATID



For more information about TCT-N product line please refer to the Alpha-Bio Tec catalog

[www.alpha-bio.net](http://www.alpha-bio.net)

Adhesive Copings		Scan Body	
	Engaged (single tooth)	Non Engaged (Bridges/Bars)	
			
Diameter	A: Ø4.7 mm B: 3.5 mm C: 4 mm D: 0.5 mm	A: Ø4.7 mm B: 3.5 mm C: 4 mm D: 0.5 mm	
Code	TAC-TCT-N	TAC-TCT-N-R	TCT-N
Ref. No.	5028	5029	5022
Instructions	For single tooth	For bar/bridge	For use with both engaged and non engaged

Screws		Analog	
Code	SF-N	SFT-N	BTT-N
Ref. No.	6092	6093	5211
Instructions	Clinical-Silver (included in package). standard multiunit TCT-N screw	Lab-Black (Optional). Lab use multiunit TCT-N screw	Suitable for abutment

## RESTORING AT TSA-N LEVEL - SCREW RETAINED

**RESTORATION LEVEL**  
TSA-N



**SUPPORTED PLATFORM**  
INTERNAL HEX



**SUPPORTED IMPLANTS**  
SPI, ICE, DFI, ATID



For more information about TSA-N product line please refer to the Alpha-Bio Tec. catalog

[www.alpha-bio.net](http://www.alpha-bio.net)

Adhesive Copings		Scan Body
	<b>Non Engaged</b> (Bridges/Bars)	
	A: Ø4 mm B: 2 mm C: 3 mm D: 0.5 mm E: Ø3.2 mm	
	<b>Code</b> TAC-TSA-N	<b>Code</b> SB-TSA-N
	<b>Ref. No.</b> 5015	<b>Ref. No.</b> 5023
<b>Instructions</b> For single tooth and bar/bridge restoration		

Screws			Analog	
				
Code	SF-N	SFT-N	BTS-N	AUC-BTS-N
Ref. No.	6092	6093	5213	5214
Instructions	Clinical-Silver (included in package). standard multiunit TCT-N screw		Suitable for TSA-N	Suitable for abutment



## TOOLS

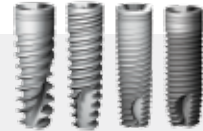
**RESTORATION LEVEL**  
IMPLANT LEVEL



**SUPPORTED PLATFORM**  
INTERNAL HEX



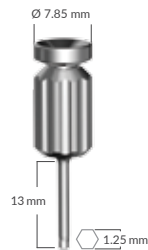
**SUPPORTED IMPLANTS**  
SPI, ICE, DFI, ATID



For more information about TCT-N product line please refer to the Alpha-Bio Tec catalog

[www.alpha-bio.net](http://www.alpha-bio.net)

Hand Screw Driver



Scan Body Organizer Box



Code	HHS 1.25	SBOB	KIT#090
Ref. No.	4052	995-0290	KIT#090
Instructions	For scan abutment screw, Standard (new style) driver		
	For easy storage and use		
Content		Box only	SBOB Box HHS 1.25 Driver 6XRef# (5019, 5021, 5022, 5023)

## SUPPORTED SYSTEMS

The relevant data is incorporated in the libraries of the following systems:



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Alpha-bio Tec's users should follow CAD system manufacturers loading instructions and easily start working with our parts. Detailed instructions and quick links to library data are available on our web site at:

[www.alpha-bio.net](http://www.alpha-bio.net)

# CadCam Restoration work flow

To optimize your work simply follow our 5 steps restoration workflow. Before you begin, please ensure that you and the lab have all the required library files and restoration parts in place, ready for use.

For detailed ordering information, refer to the CAD/CAM catalog on our website at:  
**[www.alpha-bio.net](http://www.alpha-bio.net)**

## Step 1

Clinic



### Take a Traditional Impression

#### What is required:

- Standard ABT's Transfers- Please choose from ABT's catalog.
- Standard tray and impression materials (Open or closed).

#### Tips:

- For best accuracy take impression at the desired restoration level (Implant or screw retained).

## Step 2

Lab



### Model Casting & Scanning

#### What is required:

- Standard ABT's laboratory Analogs - Please choose from ABT's catalog.
- Scan Abutments.
- Multi Unit parts- when required.



#### Tips:

- For screw retained, place TCT-N or TSA-N on analog or use special screw retained analogs.
- Place respective scan abutment for scan.
- Scan at desired restoration level (Implant or screw retained).

Or

### Take a Digital Impression (Intraoral Scanning)

Clinic



#### What is required:

Intraoral Scan Abutments



#### Tips:

- No need for anti-glare spray
- For best accuracy take impression at the desired restoration level (implant or screw retained)

Send File to Lab

## Step 3

Lab



### CAD Design

#### What is required:

- Library files are available for leading CAD/CAM systems.
- Please refer to our updated list of supported systems available on our web site: [www.alpha-bio.net](http://www.alpha-bio.net)



#### Tips:

- Library files are available in 2 versions: Regular or wide glue gap.

## Step 4

Lab



### CAM Manufacturing

#### What is required:

- CAM systems that can produce parts designed by our supported CAD systems.
- Please refer to the updated list of our supported CAD systems available on our web site at: [www.alpha-bio.net](http://www.alpha-bio.net)



#### Tips:

- Choose glue gap according to technology and system instructions used.
- For best results, milling strategy and choice of tools should be considered.

## Step 5

Lab



Clinic

### Cementation and Final Restoration

#### What is required:

- Ti Bases for cemented or adhesive copings for screw retained level.
- Cementation materials.
- Abutment screws (provided with the bases/copings)



#### Tips:

- Please refer to IFU for cement type recommendation.
- Please choose engaged or non engaged parts according to restoration type.
- When cementation performed in a patients mouth, make sure you unattach after hardening and remove excessive glue.

# GUIDELINES FOR USE\*

## General

### Terms and Conditions

Technical / Clinical results are subjected to many variants inflicted by the different systems and technologies participating in the process. Therefore, strict observation of instructions for use, indications and technical limitations recommended by all parties involved is crucial for obtaining required results. The parts are subjected to further development. Therefore, Alpha-Bio Tec. reserves the right to carry out any product modification without prior notice.

### Storage and Handling

Products should be stored at room temperature. Refer to individual product labels and user manuals for special storage or handling conditions.

### Procedural Precautions

Products are provided in a non-sterile condition. Prior to use, sterilize the product in an autoclave in accordance with manufacturer instructions, at a temperature of 121°C for 40 minutes, then dry for an additional 30 minutes.

## Titanium Bases And Titanium Adhesive Copings

### Indication:

- Engaged Titanium base or engaged Titanium adhesive coping acts as an adhesive base for manufacturing of individual abutment combined with coping, crown and superstructure made from dental ceramics such as Zirconium.
- Suitable for engaging (single tooth) and non-engaging (bridge construction)
- Bases - for implant level restoration
- Adhesive copings - for screw retained restoration
- Suitable for use only with its matching platform
- Indicated for single-use only
- Final restoration closing torque (recommended):
  - 30 Ncm - matching fixing bases on Internal Hex implants
  - 20 Ncm - matching fixing bases on NICE (CHC) implants
  - 25 Ncm - matching fixing adhesive coping on Internal Hex screw retained abutments

### Contra-indication:

- Insufficient oral hygiene
- Insufficient space available
- Bruxism
- For Internal Hex Ti Base - restorations with angulation correction above of 35°.
- For CHC Ti Base - restorations with angulation correction above of 25°.
- For Internal Hex screw retained TCT-N and TSA-N Ti Adhesive Copings - restorations with angulation correction above allowed angulation as specified in the product documentation.
- Individual tooth restorations with free-end saddle
- Restorations with excessive cantilever

### Processing - Bases and Adhesive coping

Ceramic copings or crowns cemented to the base should be milled/polished with 0.5mm diameter tools, sharp or rounded edge

- Copings should be veneered before cemented onto the bases.
- Inner side of bases or adhesive coping (the connection to the implant or to the screw retained abutments) should not be treated mechanically or sand blasted. It is advised to connect the abutment to an analog while working on its' externa surface.
- Diameter of the bases should not be reduced.
- Diameter and length of the adhesive copings should not be reduced.

\* Instruction for use are available at: <https://www.e-labeling.eu/ABT>

### Cementing and Polishing:

- Cement the ceramic abutment to the base using Panavia F2.0 (by Kuraray), Relay X Unicam (by 3M-Espe), or similar product. Carefully follow the instructions prior to using the cement.
- Base should be fixed onto a lab analog using abutment screw. Screw channel should be sealed with wax or resin.
- Cement mixture should be applied to the connecting portion of the base.
- Abutment should be pressed into position on the base until base and abutment are in line with the bearing surface. Gap between abutment and base should be minimal.
- Remove large surplus cement immediately.
- After hardening, remaining cement should be removed with silicon polishers.
- Screw channel should be cleaned.

## Scan Abutments

### Indication:

- For lab use only
- Scan abutments are used to:
  - Scan the cast model
  - Indicate position and orientation of Implant and its platform connection
- Scan abutment is screwed manually onto the lab analog using standard abutment screw
- Corresponds with respective platforms (i.e., bone level implants, screw retained)
- Opaque to optical scanners - anti-glare spray not required

## Laboratory Analogs and Abutment Screws

### Indication:

- Standard lab analogs should be used
- For Internal Hex, lab grade abutment screw (black) for multiple lab uses - recommended
- Only standard abutment screw (blue) - indicated for final prosthetic restoration

## Software Libraries:

### Supported systems:

Software libraries containing all relevant restoration parts (Scan Abutments, Ti-Bases, Adhesive Copings Screws and Analogues) are available for leading CAD/CAM suppliers. The company may update its supported systems list from time to time, according to market requirements. An updated list of supported systems will be available on our web site.

### Library format:

Each supported system library contains 2 separated libraries allowing different gaps for glue: regular gap and wide gap. Glue gap may vary according to the technology and material used.

**Regular Glue Gap** – recommended for most cases, especially for milling technology and CAM systems with glue gap amendment capability.

**Wide Glue Gap** – recommended mainly for Laser systems and systems that do not allow variation of the glue gap on the CAM system. (**Please note:** The wider the glue gap, the larger the angular rotation allowance in engaged restoration)

**Milling Tools shape and size** – For best milling results It is recommended to take into consideration CAM S/W milling strategy and choice of tools, size and shape.

**Restoration Limits** – Please note!!! No restoration limits are applied to library elements except for screw insertion line!

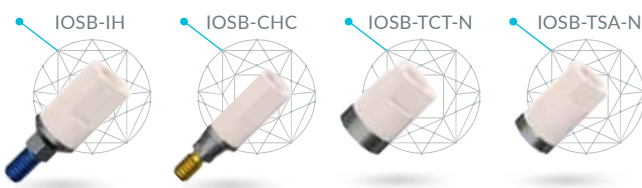
### Library download and installation:

Library files are available for download from our FTP servers through a link on our web site at **www.alpah-bio.net**. After downloading our library, please follow CAD/CAM suppliers loading and installation instructions in order to load and install our libraries on your system. **Please note** Alpha-Bio Tec's sole responsibility is for the integrity and suitability of its library for the designated CAD/CAM system. Any issue and/or support request regarding importing and/or installing the libraries on the designated CAD/CAM system should be forwarded to the designated

# COMING SOON

## Dual-use (lab and intra-oral) Scan bodies

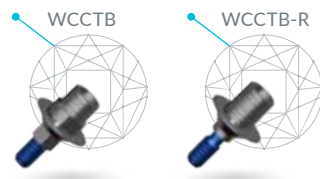
Accurately transfers implant position when taking digital impression:



- Bio Compatible Peek - No anti-glare spray needed!
- Autoclavable.
- Detachable screw for easy cleaning.
- Available for all platforms (Internal Hex and CHC).
- Available for implant and/or screw retained levels.

## Ti- Bases – Wide platform:

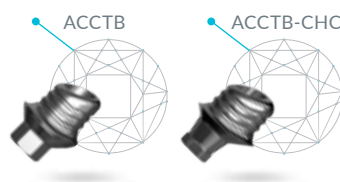
Allows easy restoration of posterior/wide teeth



- Wider platform (6 mm diameter).
- Shorter height (3.5 mm).
- Supports Internal Hex platform.
- Engaged for single Tooth and none engaged for Bridges.

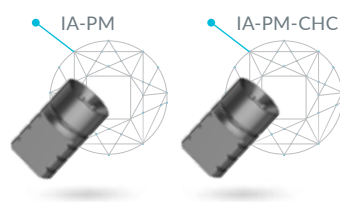
## Ti- Bases – Angled:

Allows restoration at angle, mostly required for incisor teeth:



- Allows restoration at angle of up to 25 Deg.
- Available for both Internal Hex and CHC (NICE) Platforms.
- Engaged for single tooth restoration.

## Analogs for printed models:



- Designed specifically for use with printed models.
- Shorter for fast and low cost printing.
- Retention surface for fix orientation.

# CadCam

## Digital restoration line



[www.alpha-bio.net](http://www.alpha-bio.net)



## Smart Implantology Solutions

Authorized regulatory representative:

 **MEDES LIMITED**

5 Beaumont Gate, Shenley Hill Radlett, Herts WD7 7AR. England T./F. +44.192.3859810

[www.alpha-bio.net](http://www.alpha-bio.net)

