

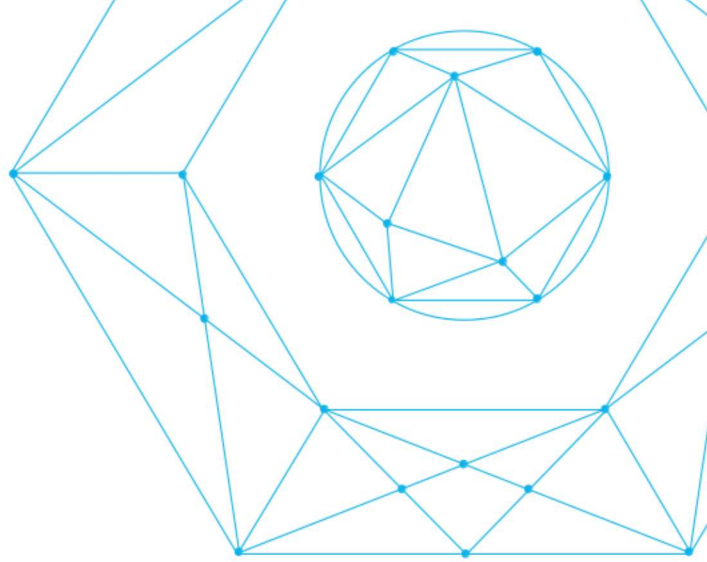


CadCam
Digital restoration line



Content:

Cad Cam restoration product line	4
Restoring at implant level – internal Hex	5
Restoring at implant level – CHC (Conical Hex Connection)	6
Restoring at – TCT-N level (Screw Retained)	8
Restoring at – TSA-N level (Screw Retained)	9
Restoration workflow	10
Guidelines For Use	12



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.
- Support 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:







Dental Wings, AmannGirrbach, 3shape, exocad and egs are trademarks or registered trademarks of their respective owners: Dental Wings LLC., Amann Gribbach AG, 3Shape A/S, exocad GmbH and EGS S.r.l. Alpha-Bio Tec is neither endorsed, nor sponsored, nor affiliated with the owners of these trademarks or registered trademarks.






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

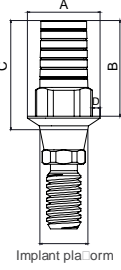



RESTORATION LEVEL IMPLANT LEVEL		SUPPORTED PLATFORM INTERNAL HEX		SUPPORTED IMPLANTS SPI, ICE, DFI, ATID	
For more information about INTERNAL HEX product line please refer to the Alpha-Bio Tec. catalog					www.alpha-bio.net



			Scan Body
	Engaged (single tooth)	Non Engaged (Bridges/ Bars)	
			
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.

					
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

			Scan Body
 Implant platform	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	SB-CHC
Ref. No.	5026	5027	5021
Instructions	For single tooth restoration	For bar/ bridge restoration	For use with both engaged and non engaged

		
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

			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

Code	SF-N	SFT-N	BTT-N	AUC-BTT-N
Ref. No.	6092	6093	5211	5212
Instructions	Clinical-Silver (included in package). standard multiunit TCT-N screw	Lab-Black (Optional). Lab use multiunit TCT-N screw	Suitable for TCT-N	Suitable for abutment

TOOLS

RESTORATION LEVEL
IMPLANT LEVEL



SUPPORTED PLATFORM
INTERNAL HEX



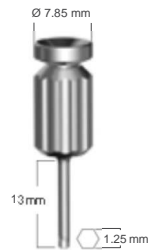
SUPPORTED IMPLANTS
SPI, ICE, DFI, ATID



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

www.alpha-bio.net

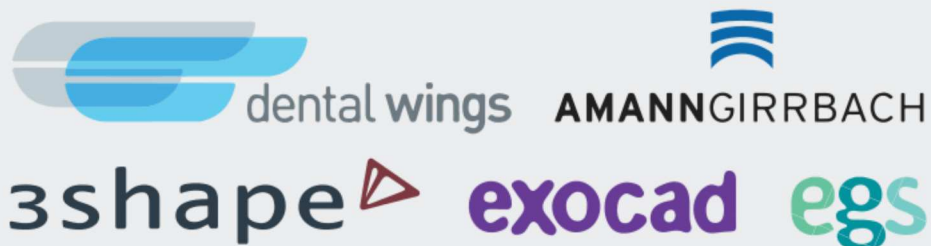
Scan Body Organizer Box



Code	HHS 1.25	SBOB	KIT#090
Ref. No.	4052	995-0290	KIT#090
Instructions	For scan abutment screw, Standard (new style) driver		
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:



Dental Wings, AmannGirrbach, 3shape, exocad and egs are trademarks or registered trademarks of their respective owners: Dental Wings LLC., Amann Gribbach AG, 3Shape A/S, exocad GmbH and E.G.S.S.r.l. Alpha Bio Tec is neither endorsed, nor sponsored, nor affiliated with the owners of these trademarks or registered trademarks.

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

CadCam restoration workYow

To optimize your work simply follow our 5 steps restoration workYow. 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 ordering information, please visit our CAD/CAM catalog at: www.abt.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



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



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 patient's 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' external 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.alphabio.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

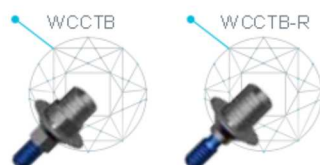
Accurately transfers implant position when taking digital impression:



- Bio Compatible Peek - No anesthetic 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:

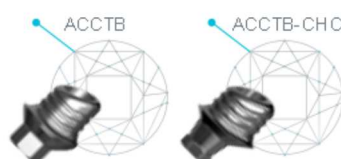
Allows easy restoration of posterior/wide teeth



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

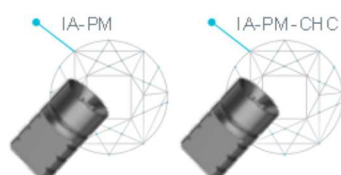
Ti- Bases – Angled:

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.

Analogues 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



Smart Implantology Solutions

Authorized regulatory representative:

 MEDESLIMITED

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

www.alpha-bio.net

