



# Guided Surgery Tool Kit (GSTK) & Master Sleeves

Catalog & Manual



Plan your case using Alpha-Bio Tec.'s implants and  
your Guided Surgery Planning Software of choice



## The Kit

The kit comprises a variety of drills and tools required for performing the entire guided surgery procedure.

- Ergonomically and carefully designed autoclavable box and tray
- Compatible master sleeves
- Materials:
  - Box and tray – Radel® polyphenylsulfone resin
  - Tools and drills – stainless steel
  - Sleeves – stainless steel



Use the software  
of your choice with  
Alpha-Bio Tec. Kit!





# The Tray

The tray features a modular layout. Its content is organized to support the entire guided surgery procedure from site preparation to final implantation.

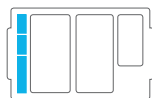
All kit components fit the matching master sleeves.



1

## SITE PREPARATION

Contains the tissue punch and crestal drills required for preparing the site, and the drills and pins required for anchoring the guided osteotomy.



2

## OSTEOTOMY

Contains the color-coded drills required by our drilling sequence for performing the guided osteotomy.



3

## IMPLANT PLACEMENT

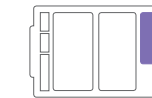
Contains implant mounters and their associated screws required for placing the implant through the guide. The implant moulder is attached to the implant using the associated screws, allowing the implant to be placed through the guide for increased accuracy and predictability of the implant position.

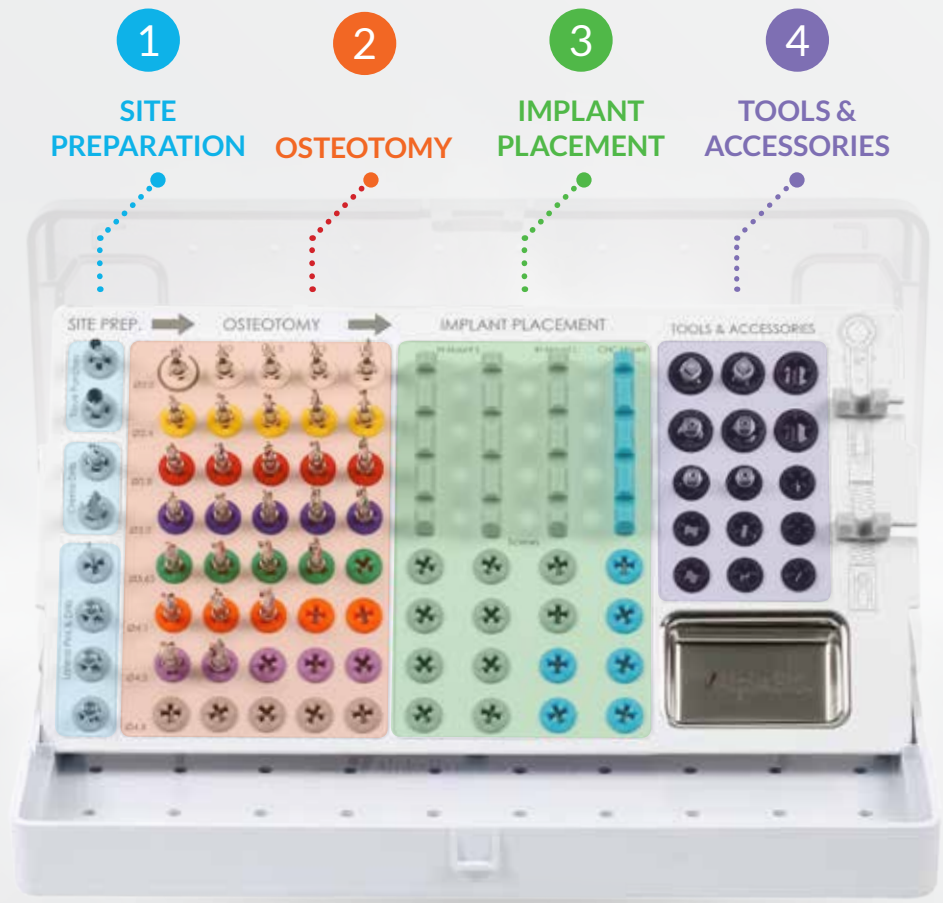


4

## TOOLS & ACCESSORIES








Contains a variety of tools and accessories required for performing the surgery procedure without the need of supplementary external tools.





# Master Sleeves

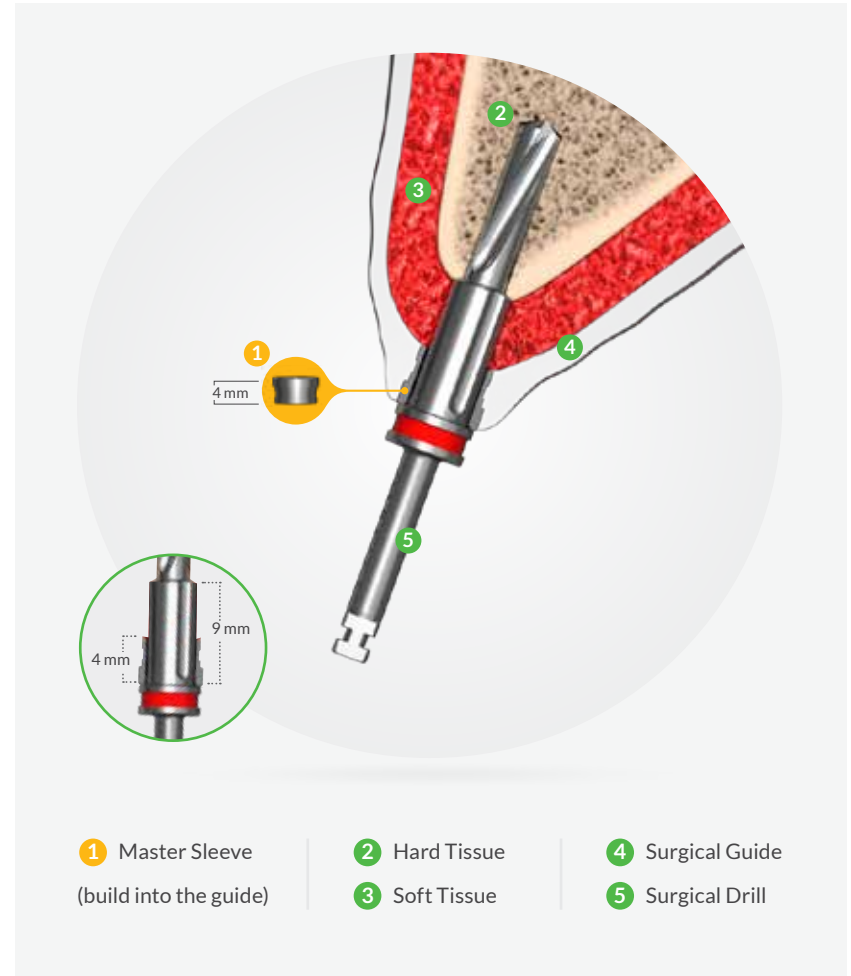
Two different sleeve diameters are available depending on the implant diameter used:

Master Sleeve			Sleeve Adaptor	
Used for drilling and implant insertion		Used to support lateral pin	Used for drilling through the large sleeve (SLL)	
 	 		 	
Code	SLS	SLL	SLSE	SLSA
Ref. no.	66012	66013	66014	65058
Info.	For Ø 3.2, Ø 3.3, Ø 3.5, Ø 3.7N, Ø 3.75 implants	For Ø 4.2, Ø 4.65, Ø 5 and Ø 5.3 implants	For 1.5 mm drill and lateral pin	Must be removed before implant insertion. See note below.

## Note

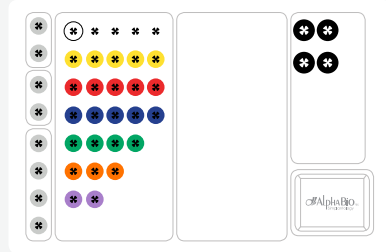
When using the Ø5.5 mm sleeve, an adaptor should be used to mitigate the tool size. If sleeve adaptors are used for the site preparation and osteotomy stages, they **must** be removed **before** inserting the implant through the guide (when applicable).

Drills and implant mounters are prolonged by fix 9 mm to meet the extra height attained by the surgical guide, i.e. the tools' stopper is located **exactly 9 mm above** the implant level.



# Modular Content

The kit is available in two different configurations or a full kit option, allowing users to choose the content according to their clinical needs. In addition, each component has its own reference number and can be purchased separately.

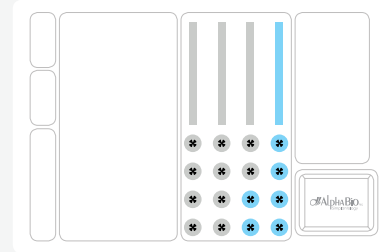


## Entry-Level Option (#KIT65080)

Parts enable fixation of the guide and site preparation for the most popular implant sizes.

### Content:

- ✓ Tray and Box
- ✓ Tissue punch (2)
- ✓ Crestal Drill (4)
- ✓ Lateral Drill & Pin (4)
- ✓ Drills (29)
- ✓ Sleeve Adaptor (2)
- ✓ Stainless steel bath with company logo
- ✓ Large autoclaveable box with company logo on top



## Entry-Level Extension (#KIT65081)

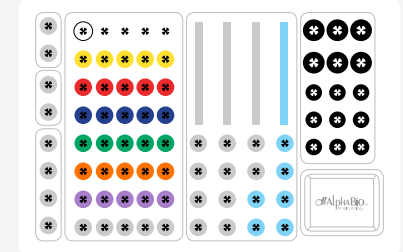
Extend surgery options with additional parts, which also enable placement of implants of the most popular diameters.

### Content:

- ✓ Implant placement mounters (16)
- ✓ Screws (16)
- ✓ Accessories
- ✓ Drivers (5)
- ✓ Adapters (4)
- ✓ Implant Extractor (1)

### Note

This option does not include the box and tray.



## Full Kit (#KIT65000)

Enables full surgery performance, from fixation of the guide to implant placement for all Alpha-Bio Tec. implant diameters.

### Content:

- ✓ Tray and box
- ✓ Tissue punch (2)
- ✓ Crestal Drill (4)
- ✓ Lateral Drill & Pin (4)
- ✓ Drills (40)
- ✓ Sleeve Adaptor (2)
- ✓ Implant Placement Mounters (16)
- ✓ Screws (16)
- ✓ Accessories
- ✓ Drivers (5)
- ✓ Adapters (4)
- ✓ Implant Extractor (1)
- ✓ Stainless steel bath with company logo
- ✓ Large autoclaveable box with company logo on top

# Performing the Surgery Step by Step

To achieve the best clinical results and accuracy with Alpha-Bio Tec's Guided Surgery Tool Kit, perform the surgery and follow our recommended drill sequence.



1



## Preparing for Surgery

**Cold Sterilization** Prior to surgery, the surgical guide must be sterilized according to the manufacturer's instructions and method used. The solution must not contain more than 15% alcohol and the process should not exceed 30 minutes. The guide must then be washed with sterile saline solution before checking it in the patient's mouth.

⚠ The guide should not be heat sterilized!  
Keep the guide in a cool place and avoid direct exposure to heat and humidity.

**Proper Fit of the Surgical Guide** The accuracy of the surgical guide requires proper fit and positioning in the patient's mouth.

⚠ The guide must sit securely without any "rocking".  
Checking the fit of the guide in the mouth prior to the surgery date is advised.

2



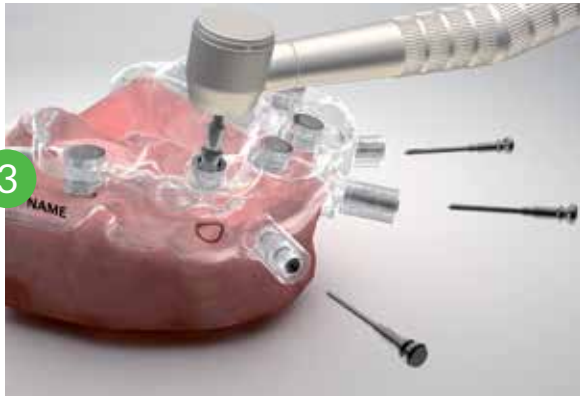
## Tissue Punch

Position the surgical guide in place, hold it and drive the tissue punch through the guide. Then remove the guide and manually complete the alveolar tissue clearing.

### Note

Securing the guide at this stage is not required but is recommended in the case of edentulous patients.







### Positioning & Securing the Surgical Guide

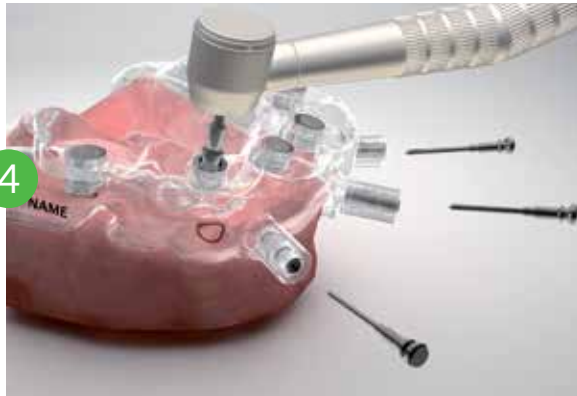
In order to avoid intraoperative displacements of the surgical guide after repositioning (that may affect the accuracy of the surgery), secure the guide in place.

#### There are two ways to achieve this:

-  1 Using 2-3 lateral pins (edentulous cases) to hold the guide between the two arches during fixation.
-  2 Using crestal pins with the use of the dental osteotomies (in full or partial edentulous cases).

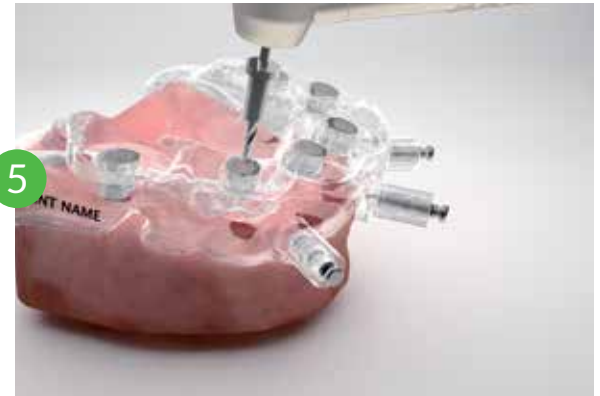
#### Note

Fully securing the teeth supported guide is not required in most cases; however, since the guide is NOT self-retentive, it should be held in position at every stage.



### Crestal Drill

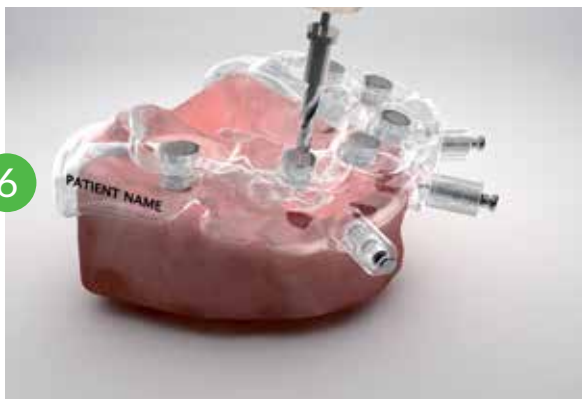
While using the crestal drill, remove any interference from the alveolar crest contour. Drill all the way, until the stopper is engaged with the guide sleeve.



### Pilot Drill

Start the drilling sequence using the D2.0x8 mm pilot drill. To enable drilling through the large sleeves, use the corresponding sleeve adapter. Drill all the way, until the stopper is engaged with the guide sleeve.

6



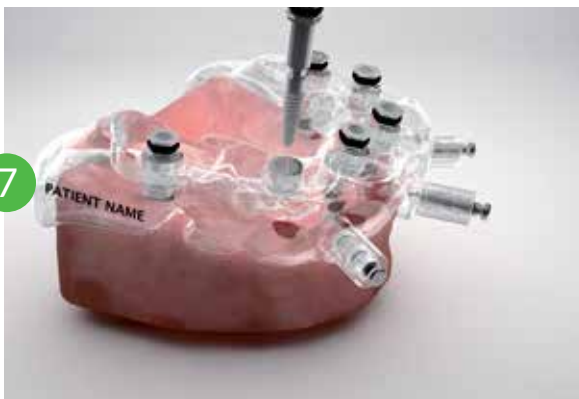
### Drilling Sequence

Continue with the drilling sequence, according to the implant diameter and length.\* To enable drilling through the large sleeves, use the corresponding sleeve adapter. Drill all the way, until the stopper is engaged with the guide sleeve.

#### Note

\*For Alpha-Bio Tec. drilling sequence, visit our website or product catalog at [www.alpha-bio.net](http://www.alpha-bio.net)

7



### Implant Placement

Open the implant package.  
Connect the corresponding implant mount to the implant, using the corresponding screw and tighten with the 1.25 screwdriver.  
Drive the implant through the guide (using the torque ratchet) until the implant mount is engaged with the guide sleeve.

#### Note

If sleeve adaptors were used for drilling, remove them first, before continuing with implant placement.

8



### Surgical Guide Removal

After finalizing implant insertion, disconnect the mount screws and remove the implant mounts using the dedicated implant mount extractor. Remove the surgical guide.

#### Note

If the guide is held by lateral pins, remove the pins first. Continue with the prosthetic phase (if intended) or attach the healing caps or cover screws.

# Library support\*

Product Name	Company name
Simplant	Materialise
Implant-Assistant	CDI
SiCat	Sirona
Ondemand3D	Cybermed
PointNix	PointNix
Implant 3D	Media Lab Srl.
Smart Guides	Implant Smart
Dental Wings	MS Dental
NemoBridge	Nemotec
Romexis	Planmenca
3D Imaging Systems	Carestream
Anatomag Guide	Anatomag
Accuguide dental	Actimplant
Pax- i3D	Vatec
Implant Planinig& Guided Surgery	3Shape
	Alphaimplant

\*The above list is updated from time to time.

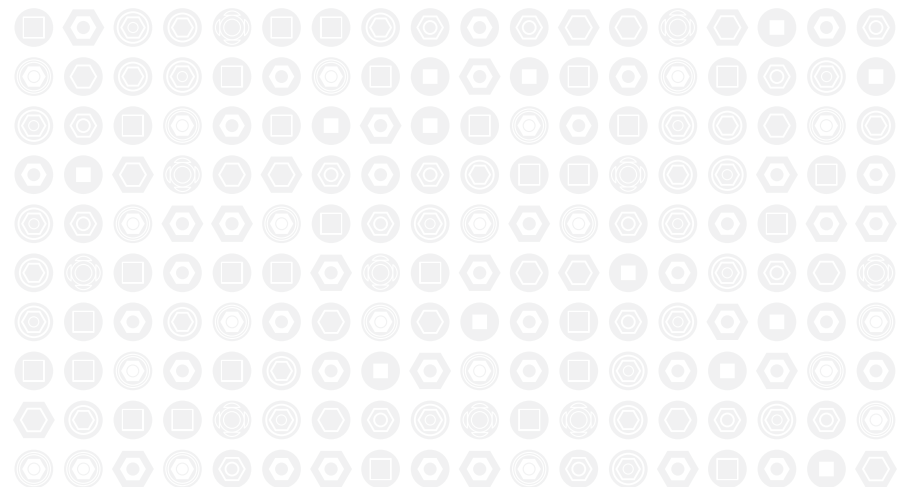


The latest updated list is available on our web site.

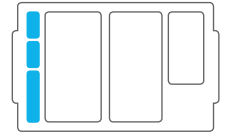


## Note

- Implant and/or abutment libraries are available for download free of charge to every third-party technology company that would like to integrate our libraries into its systems.
- Following a short registration procedure, a full set of STL libraries and relevant metadata with detailed instructions will be made available for download from our FTP servers.
- Registered suppliers can enjoy our standard semi-annual update service to keep their systems relevant and updated at all times.



# GSTK – Ordering Information\*



## 1 SITE PREPARATION

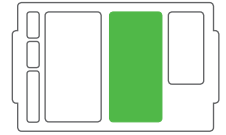
	Tissue Punch		Crestal Drill		Lateral Pin	Crestal Pin		Ø 1.5 Milling Drill
								
Code	TPS	TPL	CDS	CDL	LP	CPS	CPL	MCD1.5
Ref. no.	65003	65004	65005	65006	65047	65048	65049	65050

## 2 OSTEOTOMY







	Ø 2.0 Surgical Drills		Ø 2.4 Surgical Drills		Ø 2.8 Surgical Drills		Ø 3.2 Surgical Drills		Ø 3.65 Surgical Drills		Ø 4.1 Surgical Drills		Ø 4.5 Surgical Drills	
														
Length	Code	Ref. no.	Code	Ref. no.	Code	Ref. no.	Code	Ref. no.	Code	Ref. no.	Code	Ref. no.	Code	Ref. no.
8 mm	CD2-8	65007	CD2.4-8	65070	CD2.8-8	65012	CD3.2-8	65017	CD3.65-8	65022	CD4.1-8	65027	CD4.5-8	65032
10 mm	CD2-10	65008	CD2.4-10	65071	CD2.8-10	65013	CD3.2-10	65018	CD3.65-10	65023	CD4.1-10	65028	CD4.5-10	65033
11.5 mm	CD2-11.5	65009	CD2.4-11.5	65072	CD2.8-11.5	65014	CD3.2-11.5	65019	CD3.65-11.5	65024	CD4.1-11.5	65029	CD4.5-11.5	65034
13 mm	CD2-13	65010	CD2.4-13	65073	CD2.8-13	65015	CD3.2-13	65020	CD3.65-13	65025	CD4.1-13	65030	CD4.5-13	65035
16 mm	CD2-16	65011	CD2.4-16	65074	CD2.8-16	65016	CD3.2-16	65021	CD3.65-16	65026	CD4.1-16	65031	CD4.5-16	65036

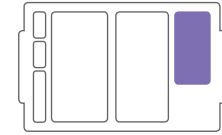
# GSTK – Ordering Information\*



## 3 IMPLANT PLACEMENT

	Implant Mount Internal Hex		Implant Mount Internal Hex Screw	Implant Mount CHC	Implant Mount CHC Screw	Implant Mount Internal Hex Driver		Implant Mount CHC Driver
	small	large				small	large	
Code	IMS	IML	IMHS	IMC	IMCS	IMSD	IMLD	IMCD
Ref. no.	65037	65038	65039	65055	65056	65062	65063	65061

4 TOOLS & ACCESSORIES



	Screwdriver	Hex Driver	Implant Mount Extension	Handpiece Insertion Adapter	Implant Mount Extractor	Universal Square Ratchet Head Adapter	L/S Sleeve Adapter Driver
	short		one size			Enables use of 4 mm square driver heads	
Code	HHSS1.25	HTD1.25S	IMX	HIA	IME	USH	SAD
Ref. no.	4053	4056	65042	65044	65045	4012	65057

## Smart Implantology Solutions

Authorized European regulatory representative:

 **MEDES LIMITED**

5 Beaumont Gate, Shenley Hill  
Radlett, Herts WD7 7AR, England, U.K  
Tel/Fax: +44 1923859810

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

