

DIGITAL ENABLERS

Simplantology, In Everything We Do

GUIDED SURGERY TOOL KIT (GSTK) & MASTER SLEEVES **Guided Surgery**

THE KIT

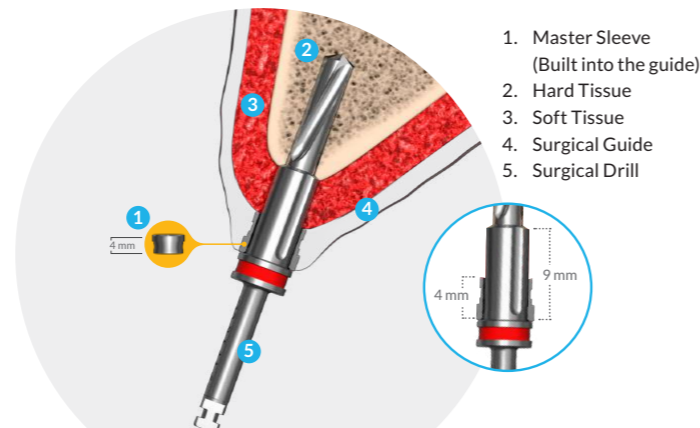
Everything you need for the entire guided surgery procedure in one comprehensive, autoclavable, color coded kit. For all implant platforms, fully or partial edentulous cases. Supported by a wide selection of guided surgery software, enabling you to plan your cases with the software of your choice.

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






THE SLEEVES

The sleeves are used in the fabrication of the surgical guide. Master sleeves are available in two different diameters. Small (SLS) for implants up to Ø 3.75 and wide (SLL) for implants Ø 4.2 and above. The securing sleeve is used to fixate the guide in place mainly for fully edentulous cases.



1. Master Sleeve (Built into the guide)
2. Hard Tissue
3. Soft Tissue
4. Surgical Guide
5. Surgical Drill

	MASTER SLEEVE Used for guided drilling and implant insertion		SECURING SLEEVE Used to support lateral pin
			
CODE	SLS	SLL	SLSE
REF. NO.	66012	66013	66014
QTY.	5	5	5
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 5.0, and Ø 5.3 implants	For 1.5 mm drill and lateral pin

NOTE: When using the Ø5.5 mm sleeve, an adaptor should be used in the initial drilling sequence 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 mounts are prolonged by a fixed 9 mm to meet the extra height attained by the surgical guide, i.e. the tool's stopper is located **exactly 9 mm above** the implant level.

Master sleeves and securing sleeves are not supplied in the GSTK box. Sleeves are sold separately in units of 5 per/pkg.

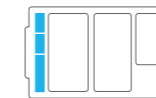
THE TRAY

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 tissue punches, drills, and pins required to prepare the osteotomy and anchor the surgical guide.

2



OSTEOTOMY

Contains the color-coded drills required for the drilling sequence to perform the guided osteotomy.

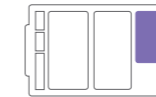
3



IMPLANT PLACEMENT

Contains implant mounts and their associated screws required to place the implant through the guide. The implant mounter is attached to the implant and enables increased accuracy and predictability of implant positioning during placement.

4



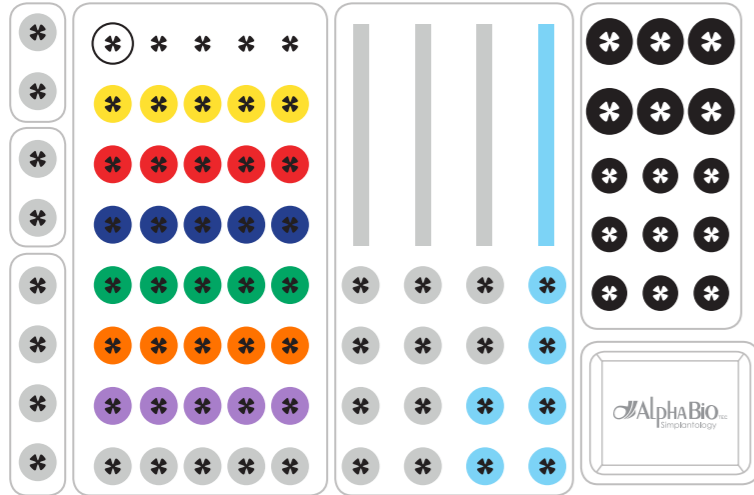
TOOLS & ACCESSORIES

Contains a variety of tools and accessories required to perform the surgical procedure without the need of supplementary external tools.

Note: The ratchet is NOT included in the kit. Image is for illustration purposes only.

MODULAR CONTENT

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



CONTENT:*

- Tray and box
- Tissue punch
- Crestal drill
- Lateral drill & pin Drills
- L/S Sleeve adaptor and adaptor driver
- Implant Placement Mounts
- Screws
- Crestal pins
- Drivers
- Implant extractor
- Stainless steel bath

THE KIT IS AVAILABLE IN 3 DIFFERENT CONFIGURATIONS:

	REF. NO. 65000	Full guided surgery kit for Internal Hex (IH) and Conical Narrow Connections (CHC)
	REF. NO. 65002	Full guided surgery kit for Conical Standard (CS) and Conical Narrow Connections (CHC)
	REF. NO. 65003	Full guided surgery kit for Internal Hex (IH), Conical Standard (CS) and Conical Narrow Connections (CHC)

* Note: The ratchet is NOT included in the kit.

GSTK ORDERING INFORMATION

1 SITE PREPARATION

	TISSUE PUNCH		CRESTAL DRILL		LATERAL PIN	Ø 1.5 MILLING DRILL
	SMALL	LARGE	SMALL	LARGE		
CODE	TPS	TPL	CDS	CDL	LP	MCD1.5
REF. NO.	65003	65004	65005	65006	65047	65050

2 OSTEOTOMY (For each diameter and length: Qty 1)

	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

3 IMPLANT PLACEMENT

	IMPLANT MOUNT IH		IMPLANT MOUNT CS		IMPLANT MOUNT SCREW IH/CS	IMPLANT MOUNT CHC	IMPLANT MOUNT CHC SCREW
	SMALL	LARGE	SMALL	LARGE			
CODE	IMS	IML	IMSC_CS	IMLC_CS	IMHS	IMC	IMCS
REF. NO.	65037	65038	65064	65065	65039	65055	65056

4 TOOLS & ACCESSORIES (Must be removed before implant insertion)

	SCREW-DRIVER	HEX DRIVER	IMPLANT MOUNT EXTENSION	HANDPIECE INSERTION ADAPTOR	IMPLANT MOUNT EXTRACTOR	UNIVERSAL SQUARE RATCHET HEAD ADAPTOR	L/S SLEEVE ADAPTOR DRIVER	SLEEVE ADAPTOR	CRESTAL PIN	IMPLANT MOUNT	IMPLANT MOUNT CHC DRIVER		
	SHORT		ONE SIZE			Enables use of 4 mm square driver heads	Used for adapting the small diameter drills to the large sleeve (SLL)		SMALL	LARGE	SMALL	LARGE	
CODE	HHSS1.25	HTD1.25S	IMX	HIA	IME	USH	SAD	SLSA*	CPS	CPL	IMSD	IMLD	IMCD
REF. NO.	4053	4056	65042	65044	65045	4012	65057	65058	65048	65049	65062	65063	IMCD

PERFORMING THE SURGERY STEP BY STEP

For best clinical results and accuracy with the Guided Surgery Tool Kit by Alpha-Bio Tec, it is recommended to perform the surgery according to the following steps:

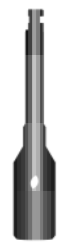
1 PREPARING FOR SURGERY



Cold Sterilization: Sterilize the surgical guide according to the manufacturer's instructions. The solution must not contain more than 15% alcohol and the process should not exceed more than 30 minutes. Prior to trying in the guide in the patient's mouth, the guide must be rinsed with sterile saline solution.
⚠ The guide should not be heat sterilized!
Store 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 should sit securely without any "rocking".
It is advised to check the fit of the guide in the mouth prior to surgery.

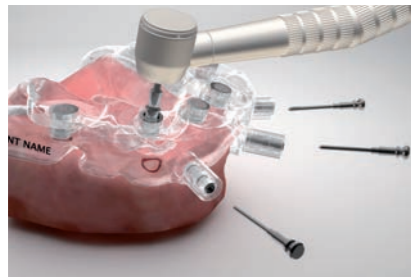
2 TISSUE PUNCH



Once the surgical guide is properly positioned in the oral cavity, drive the tissue punch through the sleeve in the guide. Remove the guide in order to manually complete the soft tissue clearing.

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

3 POSITIONING & SECURING THE SURGICAL GUIDE



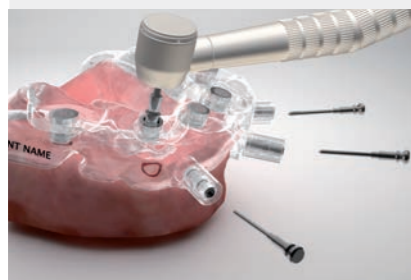
Reposition and secure the guide in place to avoid intraoperative displacement during surgery.

There are two ways to achieve this:

1. Edentulous cases: Use 2-3 lateral pins in the securing sleeves to fixate the guide in place.
2. Full or partial edentulous cases: Place crestal pins through the master sleeves to fixate the guide in position.

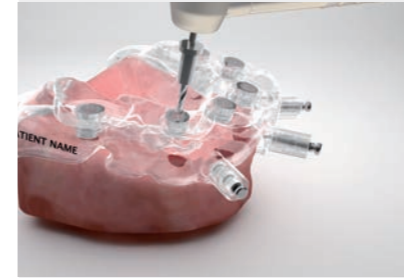
NOTE: Fully securing the tooth supported guide is not required in most cases; however, since the guide is NOT self-retentive, it should be held in position at every stage.

4 CRESTAL DRILL



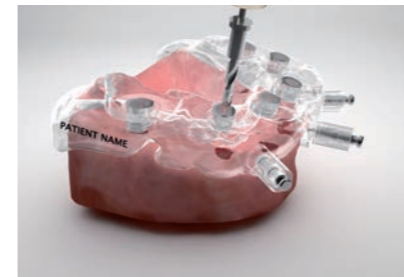
While using the crestal drill, remove any interference from the alveolar crest contour. Drill all the way, until the stopper is engaged with the guide sleeve.

5 PILOT DRILL



Begin the drilling sequence using the D2.0x8 mm pilot drill. To facilitate drilling through the large sleeves, use the corresponding sleeve adaptor. Continue drilling until the stopper is engaged with the guide sleeve.

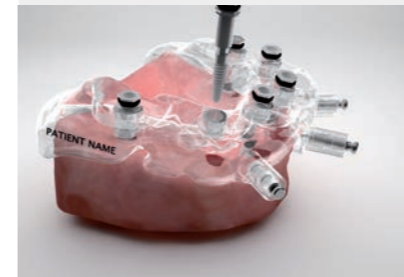
6 DRILLING SEQUENCE



Continue with the drilling sequence, according to the implant diameter and length.* To facilitate drilling through the large sleeves, use the corresponding sleeve adaptor. Continue drilling 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

7 IMPLANT PLACEMENT



Open the implant package. Remove the implant from the package with the corresponding implant mount. Using the torque ratchet, insert the implant through the sleeve in the guide until the implant mount is engaged with the guide sleeve.

NOTE: In cases where the sleeve adaptor was required for drilling, remove all adaptors prior to implant placement.

8 SURGICAL GUIDE REMOVAL



After completing 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 attached by lateral pins, remove the pins first. Attach the healing caps/cover screws or continue with the prosthetic phase.



Simplantology, In Everything We Do

Alpha-Bio Tec's products are cleared for marketing in the USA* and are CE-marked in accordance with the Council Directive 93/42/EEC. Alpha-Bio Tec's complies with EN ISO 13485:2016. Product availability may vary between countries.

www.alpha-bio.net

