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BIO3 GUIDE SURGICAL KIT®

for

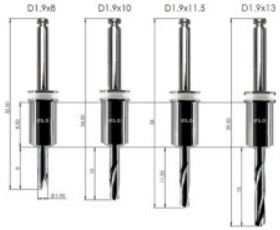
TEMPLATE SURGERY

German Quality

GSK

Bio3 Guide Surgical Kit (GSK) is a set of drills and instruments required for implant placement during elective surgery, using specialized software and a template. The navigation template is modeled in the software environment based on computed tomography images and 3D scans.

START DRILLS



DG-1.9/8 DG-1.9/10 DG-1.9/11.5 DG-1.9/13

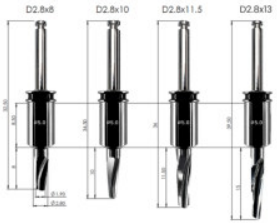
Start Drill D1.9 – Starting drills are used after the First Drill to set the depth and direction for subsequent drilling. Drill D1.9x13 has a total length of 15 mm.

DG-1.9/6

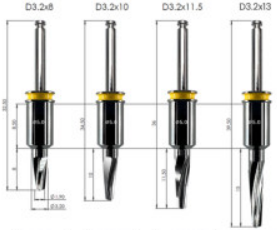
First Drill D1.9 L6 – This is the first drill used to form the initial opening in the bone and set the direction for subsequent drilling.

FINISH DRILLS

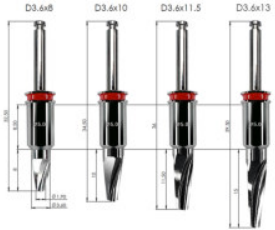
Finish Drills are used for the final formation of the bone bed for the implant.



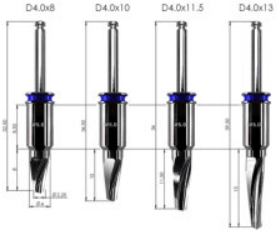
DG-2.8/8 | DG-2.8/10 | DG-2.8/11.5 | DG-2.8/13



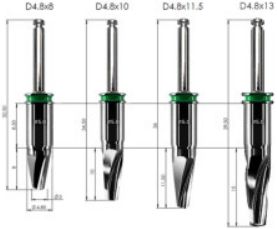
DG-3.2/8 | DG-3.2/10 | DG-3.2/11.5 | DG-3.2/13



DG-3.6/8 | DG-3.6/10 | DG-3.6/11.5 | DG-3.6/13



DG-4.0/8 | DG-4.0/10 | DG-4.0/11.5 | DG-4.0/13



DG-4.8/8 | DG-4.8/10 | DG-4.8/11.5 | DG-4.8/13

Tissue Punch is a mucotome used to perforate soft tissue through a navigation template. Tissue Punch has a surgical handpiece connection.

GS5/TP5.0 (TP5.0)

Mount Driver is used for connecting Mounter Platform with a surgical handpiece.

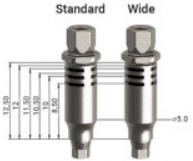
MD Hex.4

Bio3 GUIDE SURGICAL KIT PRODUCT COMPONENTS

Mounter Platform Short & Mounter Platform Long

Mounters are essential for extracting the implant from the container, placing it into the prepared bone socket, and finally tightening the implant. Mounters are fixed to the implant via screw fixation. They come with adapters for surgical handpieces (Mount Driver) and for a ratchet wrench (Ratchet Adaptor).

MP Standard | MPL Standard



MP Wide | MPL Wide

Bio3 GUIDE SURGICAL KIT PRODUCT COMPONENTS

Ratchet Adaptor is a wrench for connecting Mounter Platform with a ratchet wrench. GSK includes a short and a long adaptor.

SAD Hex.4 | LAD Hex.4

Extractor Ex-M2.5 is used to unfasten implant from Mounter platform in case it is jammed.

Ex-M2.5

Pin for Template is a pin for fixing the navigation template to patient's jaw.

PPT2.0

Stop Ring H=2 mm a set of plastic locking rings 2 mm high, for adjusting the offset. Bio3 GSK includes 4 rings.

SR-H2 mm

Pin Drill D2 is a drill bit for preparing an opening in the bone when fixing the navigation template to patient's jaw.

TCB2.0-2.8

ADDITIONAL COMPONENTS (not included)

Sleeve for Template (not included in the standard GSK) is a guide bushing for the Pin Drill D2 and Pin for Template that is inserted into the navigation template. Sleeve for Template sets the direction for Pin Drill D2.

SFT2.0

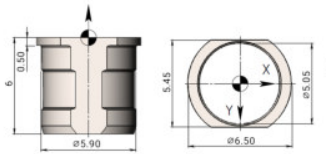
Drill Guide DG-D5 and DG-D5-h3.5 (not included in the standard GSK) are guide bushings, which are inserted into the navigation template and set the direction for drills.

DG-D5-h3.5

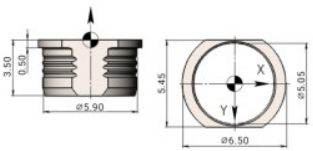
DG-D5

TECHNICAL PARAMETERS OF DRILL GUIDES

Drill Guide DG-D5



Drill Guide DG-D5-h3.5



OFFSET SELECTION

Offset is the distance between the neck of the implant and the occlusal surface of the lip of the Drill Guide DG-D5 or Drill Guide DG-D5-h3.5.

Using Offset gives you the ability to adjust the drill position during the procedure for the desired result.

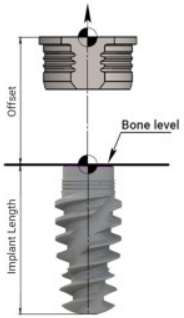
Note that 13 mm drills have an actual length of 15 mm, which can be compensated for using a stop ring or offset.

The maximum implant length that can be placed with this navigation kit is 13 mm and the diameter is 5.0 mm.

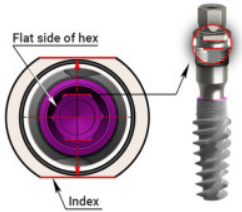
Drill Guide DG-D5 or Drill Guide DG-D5-h3.5 have variable Offset values. The table below shows the Offset values according to the implant lengths.

Implant length	Offset value, mm		
L = 6 mm	8.5	10.5	12.5
L = 8 mm	8.5	10.5	12
L = 10 mm	8.5	10	11.5
L = 11.5 mm	8.5	10	12
L = 13 mm	8.5	10.5	-

Installation of Drill Guide and implant:



OFFSET SELECTION



How to determine a rotation marker and ensure the correct orientation of the implant?

The flat side of the hex must be parallel to the flat side of the drill guide (index).

Mounter Platform Short

is used for implant placement, with a standard offset value of 8.5 mm.

Mounter Platform Long

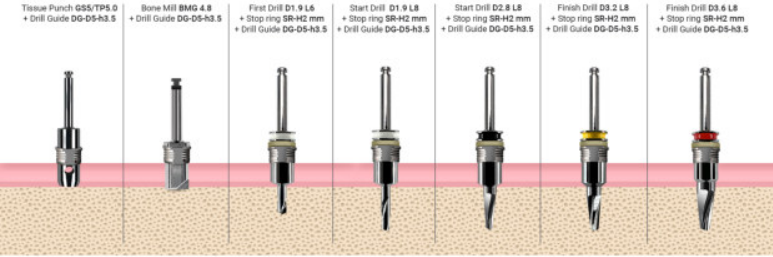
is used for implant placement with an offset value more than 8.5 mm. It has laser markings for offset levels.

Depending on the selected offset value, different drill lengths are used. The table below shows the drill selection depending on the offset value and the implant length.

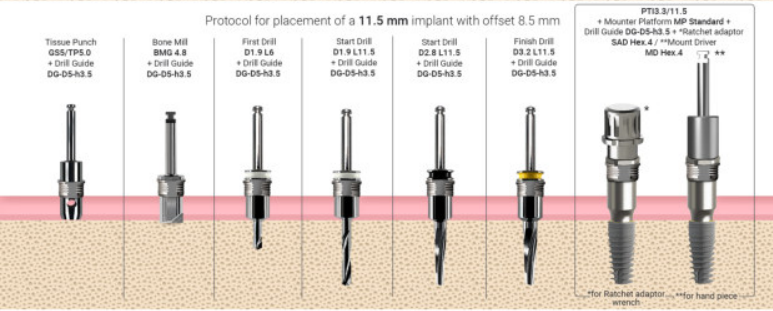
Implant length	Offset value, mm					
	8.5	10	10.5	11.5	12	12.5
L = 6 mm	Drill L8 (Ring 2 mm)	-	Drill L8	-	-	Drill L10
L = 8 mm	Drill L8	-	Drill L10	-	Drill L11,5	-
L = 10 mm	Drill L10	Drill L11.5	-	Drill L15 (Ring 2 mm)	-	-
L = 11.5 mm	Drill L11.5	Drill L15 (Ring 2 mm)	-	-	Drill L15	-
L = 13 mm	Drill L15 (Ring 2 mm)	-	Drill L15	-	-	-

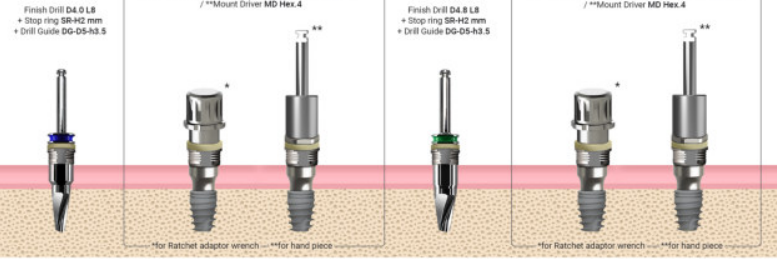
DRILLING PROTOCOL

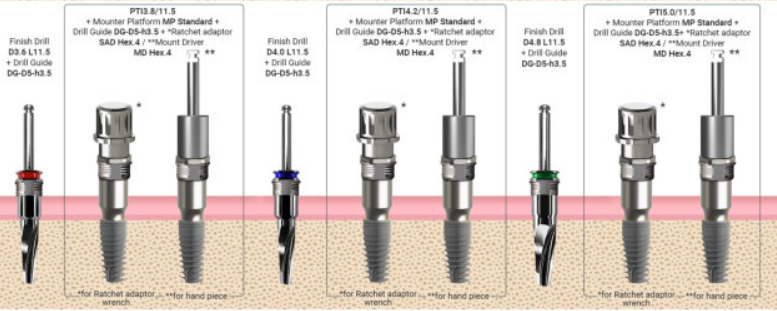
Protocol for placement of a **6 mm** implant with offset 8.5 mm



Protocol for placement of a **11.5 mm** implant with offset 8.5 mm

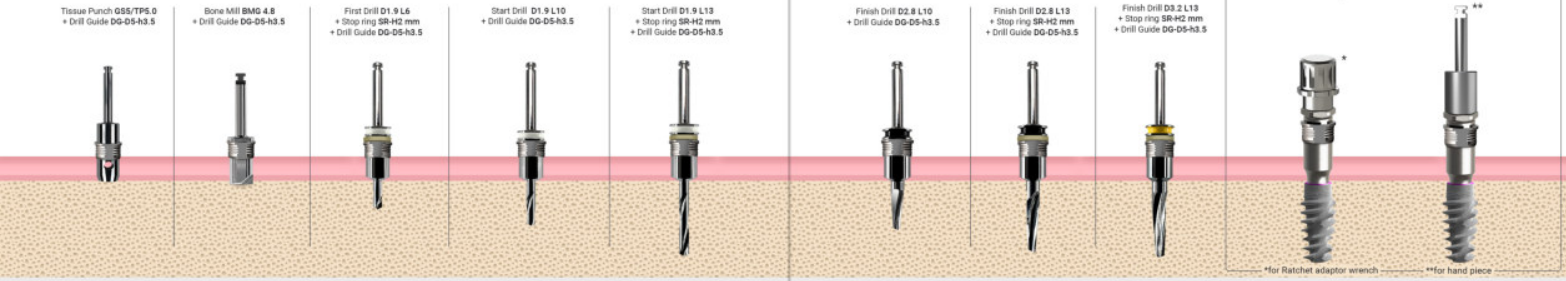






DRILLING PROTOCOL

Protocol for placement of a **13 mm** implant with offset 11.5 mm



Using Bio3 GSK you can install the following Bio3 implants:

ADVANCED IMPLANTS

Description	Code	D(mm)	L(mm)	Platform
Implant Advanced D3.3 mm L8 mm	ATI3.3/8	3.3	8	Standard
Implant Advanced D3.3 mm L10 mm	ATI3.3/10	3.3	10	Standard
Implant Advanced D3.3 mm L11.5 mm	ATI3.3/11.5	3.3	11.5	Standard
Implant Advanced D3.3 mm L13mm	ATI3.3/13	3.3	13	Standard
Implant Advanced D3.8 mm L8 mm	ATI3.8/8	3.8	8	Standard
Implant Advanced D3.8 mm L10 mm	ATI3.8/10	3.8	10	Standard
Implant Advanced D3.8 mm L11.5 mm	ATI3.8/11.5	3.8	11.5	Standard
Implant Advanced D3.8 mm L13mm	ATI3.8/13	3.8	13	Standard
Implant Advanced D4.2 mm L6 mm	ATIB4.2/6	4.2	6	Wide
Implant Advanced D4.2 mm L8 mm	ATIB4.2/8	4.2	8	Wide
Implant Advanced D4.2 mm L10 mm	ATIB4.2/10	4.2	10	Wide
Implant Advanced D4.2 mm L11.5 mm	ATIB4.2/11.5	4.2	11.5	Wide
Implant Advanced D4.2 mm L13mm	ATIB4.2/13	4.2	13	Wide
Implant Advanced D5 mm L6 mm	ATIB5/6	5	6	Wide
Implant Advanced D5 mm L8 mm	ATIB5/8	5	8	Wide
Implant Advanced D5 mm L10 mm	ATIB5/10	5	10	Wide
Implant Advanced D5 mm L11.5 mm	ATIB5/11.5	5	11.5	Wide
Implant Advanced D5 mm L13mm	ATIB5/13	5	13	Wide

PROGRESSIVE IMPLANTS

Description	Code	D(mm)	L(mm)	Platform
Implant Progressive D3.3 mm L8 mm	PTI3.3/8	3.3	8	Standard
Implant Progressive D3.3 mm L10 mm	PTI3.3/10	3.3	10	Standard
Implant Progressive D3.3 mm L11.5 mm	PTI3.3/11.5	3.3	11.5	Standard
Implant Progressive D3.3 mm L13mm	PTI3.3/13	3.3	13	Standard
Implant Progressive D3.8 mm L8 mm	PTI3.8/8	3.8	8	Standard
Implant Progressive D3.8 mm L10 mm	PTI3.8/10	3.8	10	Standard
Implant Progressive D3.8 mm L11.5 mm	PTI3.8/11.5	3.8	11.5	Standard
Implant Progressive D3.8 mm L13mm	PTI3.8/13	3.8	13	Standard
Implant Progressive D4.2 mm L6 mm	PTIB4.2/6	4.2	6	Wide
Implant Progressive D4.2 mm L8 mm	PTIB4.2/8	4.2	8	Wide
Implant Progressive D4.2 mm L10 mm	PTIB4.2/10	4.2	10	Wide
Implant Progressive D4.2 mm L11.5 mm	PTIB4.2/11.5	4.2	11.5	Wide
Implant Progressive D4.2 mm L13mm	PTIB4.2/13	4.2	13	Wide
Implant Progressive D5 mm L6 mm	PTIB5/6	5	6	Wide
Implant Progressive D5 mm L8 mm	PTIB5/8	5	8	Wide
Implant Progressive D5 mm L10 mm	PTIB5/10	5	10	Wide
Implant Progressive D5 mm L11.5 mm	PTIB5/11.5	5	11.5	Wide
Implant Progressive D5 mm L13mm	PTIB5/13	5	13	Wide

FIX IMPLANTS

Description	Code	D(mm)	L(mm)	Platform
Implant FIX D3.5 mm L8 mm	FIX3.5/8	3.5	8	Standard
Implant FIX D3.5 mm L10 mm	FIX3.5/10	3.5	10	Standard
Implant FIX D3.5 mm L11.5 mm	FIX3.5/11.5	3.5	11.5	Standard
Implant FIX D3.5 mm L13mm	FIX3.5/13	3.5	13	Standard
Implant FIX D4 mm L6 mm	FIX4.0/6	4	6	Standard
Implant FIX D4 mm L8 mm	FIX4.0/8	4	8	Standard
Implant FIX D4 mm L10 mm	FIX4.0/10	4	10	Standard
Implant FIX D4 mm L11.5 mm	FIX4.0/11.5	4	11.5	Standard
Implant FIX D4 mm L13mm	FIX4.0/13	4	13	Standard
Implant FIX D4.5 mm L6 mm	FIX4.5/6	4.5	6	Standard
Implant FIX D4.5 mm L8 mm	FIX4.5/8	4.5	8	Standard
Implant FIX D4.5 mm L10 mm	FIX4.5/10	4.5	10	Standard
Implant FIX D4.5 mm L11.5 mm	FIX4.5/11.5	4.5	11.5	Standard
Implant FIX D4.5 mm L13mm	FIX4.5/13	4.5	13	Standard
Implant FIX D5 mm L6 mm	FIX5.0/6	5	6	Standard
Implant FIX D5 mm L8 mm	FIX508	5	8	Standard
Implant FIX D5 mm L10 mm	FIX5.0/10	5	10	Standard
Implant FIX D5 mm L11.5 mm	FIX5.0/11.5	5	11.5	Standard
Implant FIX D5 mm L13mm	FIX5.0/13	5	13	Standard