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Pilot-drill surgery TECHNICAL SHEET

In-Kone® twinKon®

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The purpose of this document is to specify the recommendations for using the pilot-drill surgery kit. For the ULTIMATE protocol please refer to the In-Kone® and twinKon® surgery protocols respectively.

Global D implant planning is facilitated **by the presence of Global D implants in many planning software libraries,** in particular :

BlueSkyPlan.com Powered by BlueSkyBio.com | smop powered by swissmeda | Planmeca Romexis software

RealGUIDE™ | exoplan | SICAT | dental wings coDiagnostiX™ | 3shape IMPLANT STUDIO

Two options are then available:

- **Full Guided surgery** with drilling and implant placement through the guide
- **Pilot-drill surgery** where only the first drill is used with the guide

THE PILOT-DRILL SURGERY

The pilot-drill surgery by Global D allows practitioners to:

- Plan the three-dimensional positioning of dental implants, a key element in the durability of implant-supported restorations
- Anticipate the most suitable prosthesis for the clinical situation during planning
- Allow control of the axis and depth of pilot drilling, for each planned implant
- Global D pilot-drill surgery is defined as guided surgery of the first drill, so-called «pilot» or «initial» drill. This drill has a diameter of 2 mm and different working lengths with integrated stops. Once the initial axis and drilling depth have been achieved with this guided pilot drill, the surgical guide is removed from the mouth and the remaining drilling and implant placement steps are performed freehand.

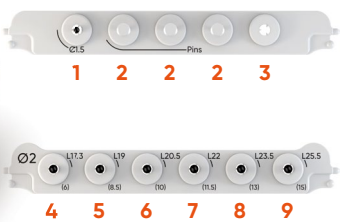
DESCRIPTION OF THE PILOT-DRILL SURGERY KIT (Ref. DKITG20)

PILOT DRILLS

The kit (Ref. DKITG20) includes **6 pilot drills of 2 mm diameter with integrated stop, in working lengths: 17.3; 19; 20.5; 22; 23.5 and 25.5 mm.**

KEYS AND ASSOCIATED DRILL

Since pilot-drill or full-guided surgery can only be successful if the surgical guide is stable throughout the drilling procedure, Global D includes in its pilot-drill surgery kit **3 locking pins** to stabilise the guide, especially in the case of a total edentulous patient, as well as a **1.5 mm diameter drill** bit to create the drill hole and thus facilitate the insertion of these wedges into the bone.



(6) (8.5) (10) (11.5) (13) (15)
implant length recommended

1. Drill for locking pin (Ref. FIP-150G /NLI100001)
2. Spots for locking pin (3) (Ref. PINGS /NLI100003)
3. Free spot

4. Drill Ø 2mm L 17.3 mm (Ref. FIP-200-17 /DFG20L1)
5. Drill Ø 2mm L 19 mm (Ref. FIP-200-19 /DFG20L2)
6. Drill Ø 2mm L 20.5 mm (Ref. FIP-200-205 /DFG20L3)
7. Drill Ø 2mm L 22 mm (Ref. FIP-200-22 /DFG20L4)
8. Drill Ø 2mm L 23.5 mm (Ref. FIP-200-235 /DFG20L5)
9. Drill Ø 2mm L 25.5 mm (Ref. FIP-200-255 /DFG20L6)

Medical devices manufactured and CE marked by BIOMEC srl (CE 0051) or by SAEG srl (CE 0476). Please consult the manufacturer's instructions before use.

SLEEVES (NOT INCLUDED IN PILOT-DRILL SURGERY KIT)

For surgical guide impressions, Global D **provides sleeves for the pilot drills** and for the locking pins independently of the kit, referenced as follows :

- DMTS2.0L5** : (Steco reference: M.27.31D200L5) sleeves diameter 2 mm for the guide in controlled surgery
- DMTS1.5L10* : (Steco reference: M.27.20.D150L10) sleeves for the locking pins
- DMTS1.5L6* : (Steco reference: M.27.03.D150L6) sleeves often used with our Graftek srews VA1.5KL11, VA1.5KL13 and VA1.5KL15.

These sleeves allow the different drillings through the surgical guide by reducing the risk of creating of creating resin chips from the surgical guide.

CLINICAL STEPS

Our surgical guides can be tooth-supported or, in the case of a totally edentulous patient, mucosal-supported, in which case the guide will be fixed to the bone with fixing pins.

- **Stabilization of the surgical guide with locking pins**

The guide is placed in the mouth, proceed to the drilling through the sleeves of the locking pins for the installation of the locking pins with the 1.5 mm drill and place them in the drill hole. Make sure that the guide is properly held in the mouth.

- **Flap or flapless**

Different approaches are possible, including :

- Technique with mini-incision: make a "buttonhole" type flap: a crestal incision of 5 mm is made. It must allow visualization of the bone crest for the passage of the drills.
- "Flapless" technique, with direct pilot drilling through the guide.
- Flap technique

- **Pilot drilling: axis and depth of drilling**

Use the pilot drill at the length selected during planning and drill until the stop contacts the sleeve of the surgical guide.

- **Next drilling procedure**

PRIOR RECOMMENDATIONS

For the drilling suite of In-Kone® and twinKon® implants, the ULTIMATE kit is used.
When using the **Ø 2.4 mm step drill**, the drill stops are recommended.
Only start rotating the motor once the drill has been inserted in the previous borehole so that the axis and the drilling depth previously achieved are not lost.
Checking the axis and depth is possible with the instruments: depth gauge (Ref. DJP) and direction indicator (Ref. DAPULTI-C).

PLANNING SOFTWARES

If our pilot-drill surgery kit does not appear, or in case of an offset modification, you can refer to the technical sheets associated with the following QR Codes:

BlueSkyPlan and Global D sleeves Users

CoDiagnostiX and Global D sleeves Users

Sicat/Planmeca and Global D sleeves Users

Implant Studio and Global D sleeves Users

Exoplan and Global D sleeves Users

Our libraries are being integrated with software publishers. In case of absence of the Steco sleeve with collar, plan with a sleeve without a collar by referring to our instructions for integrating the offsets. Use our sleeves with collar for your guides.
If your software does not appear, or if you have any questions, please contact Global D.

***The sleeves (ref DMTS2.0L5 , DMTS1.5L6 and DMTS1.5L10) are medical devices manufactured and CE marked by the manufacturer STECO system technik GmbH &Co. KG. Please consult the manufacturer's instruction manual before use.*