QUICK GUIDE BTK



Quick Reference SURGICAL PROTOCOL

Standard drilling sequencing for every BTK implant line

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INDEX

1.	STANDARD SEQUENCING OF IMPLANT SITE PREPARATION	4
1.1	FLATTEN ALVEOLAR CREST	
1.2	MARK IMPLANT SITE POSITION	
1.3	PREPARE PILOT SITE	
1.4	CHECK 3D-POSITION & DEPTH	
2.	SUBSEQUENTLY WIDEN IMPLANT SITE	5
2.1	USE OF DRILL EXTENSION	
З.	IMPLANT INSERTION	5
4.	CHARACTERISTICS OF SURGICAL DRILLS	6
4.1	STORAGE OF SURGICAL INSTRUMENTS	
4.2	DENSE BONE PROTOCOL (TAPPING)	
5.	STANDARD DRILLING SEQUENCING BT KLASSIC INT & EXT	7
6.	STANDARD DRILLING SEQUENCING BT KONIC INT & EXT	10
7.	STANDARD DRILLING SEQUENCING ISY KONE MTH, INT & EXT	12
8.	STANDARD DRILLING SEQUENCING BT SAFE	15
9.	STANDARD DRILLING SEQUENCING BT NANO	18



STANDARD SEQUENCING OF IMPLANT SITE PREPARATION



FLATTEN ALVEOLAR CREST

Once the implant surgical site is exposed, a large diameter Round Bur may be used to flatten the crest of the alveolar ridge. All sharp edges and irregularities are removed by running this round bur across the alveolar ridge so that a flat, wide ridge is created.



MARK IMPLANT SITE POSITION

After flattening the crest, a Round Bur \emptyset 2.0 mm or a sharp drill is used to mark the planned position of the implant site.



PREPARE PILOT SITE

The \emptyset 2.0 mm Pilot Drill including Drill Stop is employed to define the suitable, restoratively-driven three-dimensional implant position and the pilot implant site is produced.



CHECK 3D-POSITION & DEPTH

Insert the Ø 2.0 mm ParaPin/Depth Gauge to properly check the three-dimensional position. The depth of the pilot hole can be checked by the same instrument. Any incorrect axis orientation can be adjusted with the very same Ø 2.0 mm Pilot Drill and subsequently widened with the Ø 2.50 - 2.70 mm Step Drill.



4 - Surgical Protocol

SUBSEQUENTLY WIDEN IMPLANT SITE

As a next step, the pilot hole is subsequently enlarged by using the Step Drill and finalized to the desired final implant site / length using the corresponding Final Drills. For safety reasons, the use of Drill Stops is recommended.



EXAMPLE:

- Ø 2.7 mm Twist Drill + Drill Stop
- Ø 3.1 Ø 2.75 mm Twist Step Drill + Drill Stop
- Ø 3.45 Ø 3.05 mm Twist Step Drill + Drill Stop

⚠ USE OF DRILL EXTENSION

- The Drill Extension should only be used to extend surgical drills by approx. 19.0 mm.
- This is indicated in situations where the available vertical space in single-tooth gaps is insufficient.
- If the access of Taps need to be extended, they are solidly connected to the corresponding Adapter ISO/Wrench, which engages on the ISO link and the HEX portion of the Tap. Thus tapping is performed manually using the Reversible Torque Wrench.
- The Drill Extension must never be used for Taps or for inserting Implants to the implant site.

IMPLANT INSERTION



PACKAGING



OPENING

THE INNER VIAL



IMPLANT PICKING UP



IMPLANT INSERTION Labial/buccal allignment



PREPARATION FOR HEALING

EXAMPLE:

DRILL 426HR270 of surgical kit 624NA001 for implant lines BT SAFE, BT NANO e ISY KONE.



CHARACTERISTICS OF SURGICAL DRILLS

• All drills and screw taps are made of stainless steel.

• All drills and screw taps are supplied in non-sterile single packs or in kit not sterile. Please refer to the recommendations on cleansing and sterilization indicated by BTK.

• Drills and screw taps must be replaced after a maximum of 20

uses. The effectiveness decreases after 5/6 applications already.
All drills and screw taps have depth markings made with laser technique.

 The length relative to the corresponding black strip, realized with laser technique, it is always the lower or upper end of the strip.

• The black strips correspond to the length of the selected implant. However, to increase security, the drill stops can be used during site preparation.

• All drills report their diameter and the relevant reference code on the stem.

• All final drills allow you to apply suitable drill stops.

• In case the length of the drills is insufficient, there is the possibility to connect them to the "Drill Extension" tool.

NOTE

• For implants with a length of 18 mm, the corresponding depth markings on drills are not provided such as the suitable drill stops are not available. It is advisable to prepare the implant site taking into account that the length of the drill, from the tip and up to the retention collar, is equal to 18.8 mm. It is responsibility of the clinician to evaluate based on the clinical case, morphology and bone quality, as well as the inclination of the implant, how to prepare the implant site.

• For ISY KONE implants with a diameter of Ø 6 mm, the corresponding screw tap (ref 467HR600 Screw Tap HR Ø6.0mm L36mm Isy Kone) is not included in the surgical kit (ref. 624NA001). This tool is OPTIONAL and must be purchased separately if necessary.

STORAGE OF SURGICAL INSTRUMENTS

The surgical trays are used for the secure storage and sterilization of the surgical and auxiliary instruments of the BTK dental implant systems. The surgical trays are made of a highly shock-proof thermoplastic, which is well established in medical applications and the material is suitable for frequent sterilization in the autoclave.



The evaluation of bone quality is made by using radiograph imaging techniques and clinical examination.

Dense cortical bone provides higher implant primary stability. Whereas cancellous bone provides less initial stabilization.

This has to be taken into account when preparing the implant site.

Moreover, it influences the time required to develop osseointegration.



STANDARD DRILLING SEQUENCING BTKLASSIC INT&EXT

Standard drilling sequence for BT KLASSIC **INT/EXT** implant Ø 3,25 mm, L= 10 mm



Standard drilling sequence for BT KLASSIC **INT/EXT** implant Ø 3,75 mm, L= 10 mm



*Only in the presence of hard cortical bone.

Standard drilling sequence for BT KLASSIC **EXT** implant Ø 4 mm, L= 10 mm



Standard drilling sequence for BT KLASSIC **INT** implant \emptyset 4,25 mm, L= 10 mm



*Only in the presence of hard cortical bone.

Standard drilling sequence for BT KLASSIC **INT/EXT** implant Ø 5 mm, L= 10 mm



STANDARD DRILLING SEQUENCING BTKONIC INT & EXT

Standard drilling sequence for BT KONIC INT/EXT implant Ø 3,25 mm, L= 10 mm



Standard drilling sequence for BT KONIC **INT/EXT** implant Ø 4 mm, L= 10 mm



*Only in the presence of hard cortical bone.

Standard drilling sequence for BT KONIC **INT/EXT** implant Ø 5 mm, L= 10 mm



STANDARD DRILLING SEQUENCING ISY KONE MTH, INT & EXT

Standard drilling sequence for ISY KONE **MTH/INT/EXT** implant Ø 3,3 mm, L= 10 mm



Standard drilling sequence for ISY KONE **MTH/INT/EXT** implant Ø 3,7 mm, L= 10 mm



Standard drilling sequence for ISY KONE **MTH/INT/EXT** implant Ø 4,1 mm, L= 10 mm



Standard drilling sequence for ISY KONE **MTH/INT/EXT** implant Ø 4,8 mm, L= 10 mm





STANDARD DRILLING SEQUENCING BTSAFE

Standard drilling sequence for BT SAFE implant \emptyset 3,3 mm, L= 10 mm



Standard drilling sequence for BT SAFE implant Ø 3,7 mm, L= 10 mm



Standard drilling sequence for BT SAFE implant \emptyset 4,1 mm, L= 10 mm



Standard drilling sequence for BT SAFE implant \emptyset 4,8 mm, L= 10 mm



Standard drilling sequence for BT SAFE implant \emptyset 6,0 mm, L= 10 mm





Standard drilling sequence for BT NANO implant \emptyset 4,2 mm, L= 6 mm





Standard drilling sequence for BT NANO implant \emptyset 6,0 mm, L= 6 mm



Standard drilling sequence for BT NANO implant \emptyset 4,8 mm, L= 6 mm



BTK PERSONAL TUTOR

A program for individual case planning and execution supported by experienced professionals in order to leverage know-how and maximize clinical experience with the aim to achieve sustainable high patient satisfaction rates.

BTK is always at your disposal for any request for further follow-up or information, promoting periodic and ad-hoc training course.

CERTIFIED QUALITY SYSTEM

BIOTEC is certified UNI EN ISO 9001 and UNI EN ISO 13485.

CE marked product, in accordance with Directive 93/42/EEC and subsequent modifications and additions.

MADE IN ITALY USED GLOBALLY



We constantly ensure that the quality of our products and services meet the high expectations of our customers and their patients.

Specialized professionals are taking care to offer comprehensive solutions in applied research, engineering, education and related activities.



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