# SHAVER DRILL BITS

#### Drill bits for the flapless technique on soft and hard tissue.





# FLAPLESS TECHNIQUE

Flapless implant surgery consists of creating surgical bone access allowing the use of drills and implant placement without flap detachment or stitching.

This technique has several advantages for the patient:

- Non-traumatic
- > Extremely contained bleeding
- > Shorter surgical procedure
- > Less painful post-operative effects
- > Reduced healing time

### CLASSIC VS SHAVER DRILL BITS

#### **Classic Drill Bits**

Performs circular incision of the mucous membrane without removing it and without affecting the periosteum and bone. A lancet, a curette and curved forceps are required to complete the surgical procedure.

#### Shaver Drill Bits

These drill bits are moving forward the concept of flapless surgery. **They allow for the preparation of the mucous membrane, periosteum and targeting before drilling for the placement of Kontact**<sup>™</sup> implants with one cortical bone operation. The surgical site can be prepared without a lancet, curette or pointing drill.

#### BENEFITS

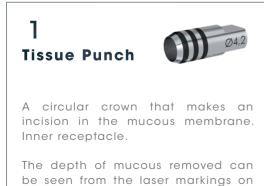
- Simplified technical equipment
- ✓ Shorter surgical procedure
- ✓ Accurate and repeatable results
- For the first time, there is a drill bit for every diameter of implant for optimal precision.
- Less painful post-operative effects and no swelling.

# PREREQUISITES FOR DRILL BIT USAGE

- > Keratinised gingiva at least equal to or above 4 mm
- > Sufficiently wide crestal bone

# TECHNICAL FEATURES

The drill bits are made up of two parts:







The shaver's 5 sharpened blades make an incision in the mucous membrane as well as retract and remove it in one operation on the periosteum and cortical bone. The pointed trocar is located in their centre.

**Trocar:** it goes over the shaver which in turn goes beyond the circular crown. It perforates the cortical bone at the centre of the drill bit. The internal design of the drill bit removes and lifts the lanced mucous.

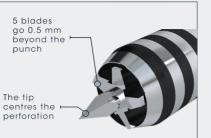
**Flat spots:** can be found on the sides to make assembly/disassembly of the drill bits easier after each surgery.

the punch.

### FEATURES OF THE TREPHINE BLADES AND THE TROCAR TIP

### 1

The trephine blades slice the gum to the diameter of the implant.



### 2

The trocar tip perforates the cortical bone centrally for the pilot drill to go through.



# FLAPLESS DRILL BIT RANGE

#### 1 DIAMETER OF DRILL BIT FOR EVERY DIAMETER OF IMPLANT

(Kontact<sup>TM</sup>, Kontact<sup>TM</sup> N, Kontact<sup>TM</sup> S, Kontact<sup>TM</sup> S<sup>+</sup> implants)

Flapless drill bits are available in **5 different diameters:** 

1 diameter for every diameter of implant for perfect circular incision of the mucous membrane for every diameter of Kontact<sup>™</sup>implants.



### **CONTENTS OF THE PURE FLAPLESS KIT**

References	Quantities	Descriptions
KTFLAP30	1	Flapless Drill Bit for Ø 3.0 mm implant
KTFLAP36	1	Flapless Drill Bit for Ø 3.6 mm implant
KTFLAP42	1	Flapless Drill Bit for Ø 4.2 mm implant
KTFLAP48	1	Flapless Drill Bit for Ø 4.8 mm implant
KTFLAP54	1	Flapless Drill Bit for Ø 5.4 mm implant

# **ROTATION SPEEDS**

For a thin mucous membrane (lower than or equal to 2 mm):

Rotation of 1,600 turns / min for 16 to 22 seconds

1 to 2 irrigation power

For a thick mucous membrane (over 2 mm):

# Rotation of 2,000 turns / min for 20 to 25 seconds

High irrigation (never more than 50%). Do not hesitate to remove the drill bit in order for the irrigation to cool down the blades before completing the process.

For extremely thick mucous membrane (over 4 mm):

# Rotation of 2,000 turns / min for 30 to 35 seconds

High irrigation (never more than 50%). Do not hesitate to remove the drill bit in order for the irrigation to cool down the blades before completing the process.

### CORRESPONDENCE TABLE

KONTACT<sup>TM</sup> S<sup>+</sup> IMPLANTS/ FLAPLESS DRILL BITS

For the placement of a **Kontact<sup>™</sup>**, **Kontact<sup>™</sup> N** and **Kontact<sup>™</sup> S** implant, use the flapless drill bit with the corresponding diameter to the implant you are going to place.

For implants from the **Kontact<sup>™</sup> S**<sup>+</sup> range, refer to the correspondence table opposite:

Kontact S+ implants	KTFLAP
K4008-36S	KTFLAP42
K4010-36S	KTFLAP42
K4012-36S	KTFLAP42
K4508-42S	KTFLAP48
K4510-42S	KTFLAP48
K4512-42S	KTFLAP48
K5008-42S	KTFLAP54
K5010-42S	KTFLAP54
K5012-42S	KTFLAP54
K5508-42S	KTFLAP54
K5510-42S	KTFLAP54
K5512-42S	KTFLAP54



#### **Cortical bone operation**

In order to level it, the length of the process and pressure applied on the drill may need to be increased. Be sure to irrigate thoroughly.

#### Several processes in the same session

To maintain optimal efficiency, the trephines must be dismantled and cleaned in order to empty the receptacle before each use of the drill. It is recommended to have several sets of drill bits in case of multiple implant placement of the same diameter.



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