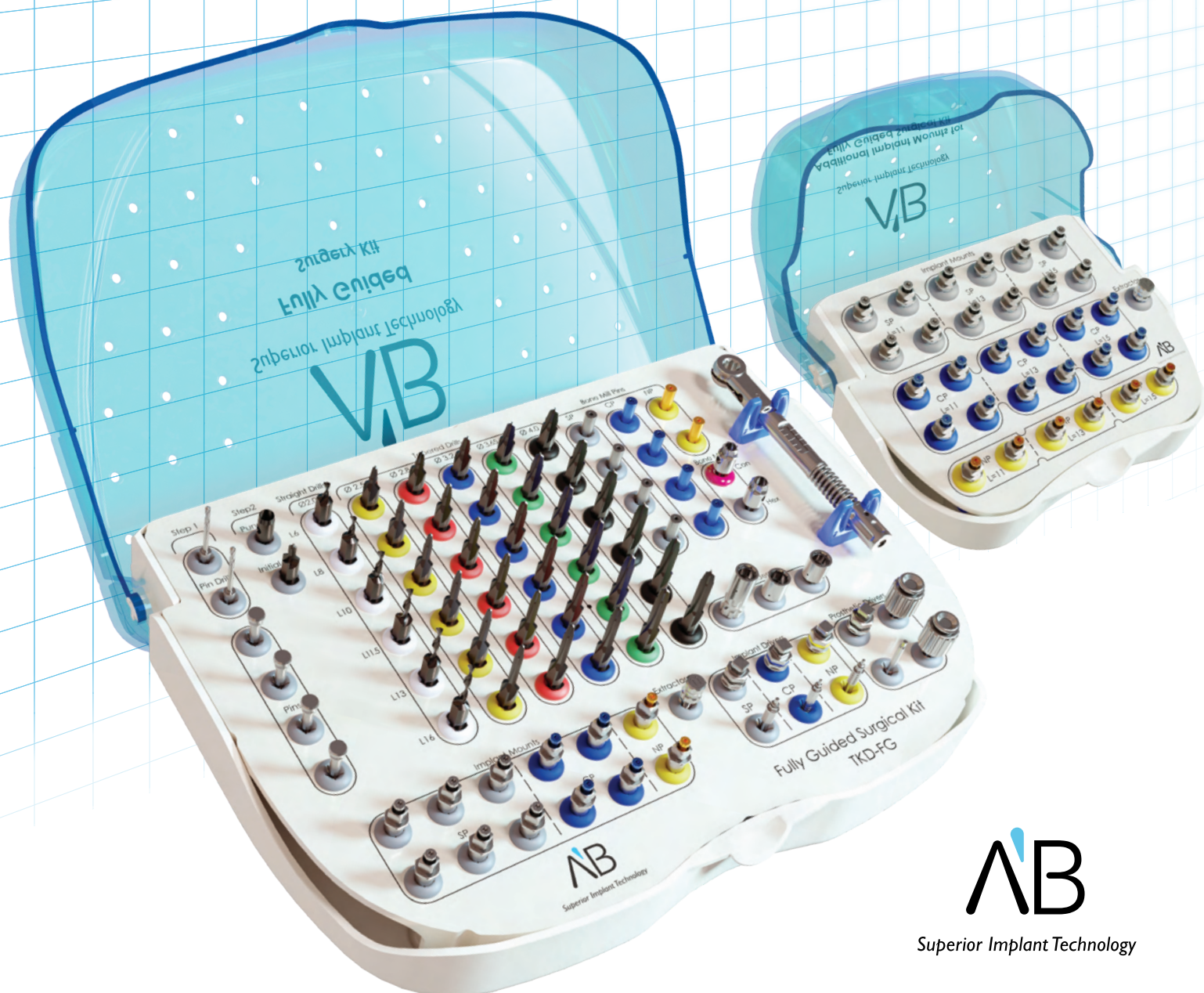


REDEFINING PRECISION WITH A FULLY GUIDED SURGERY SET



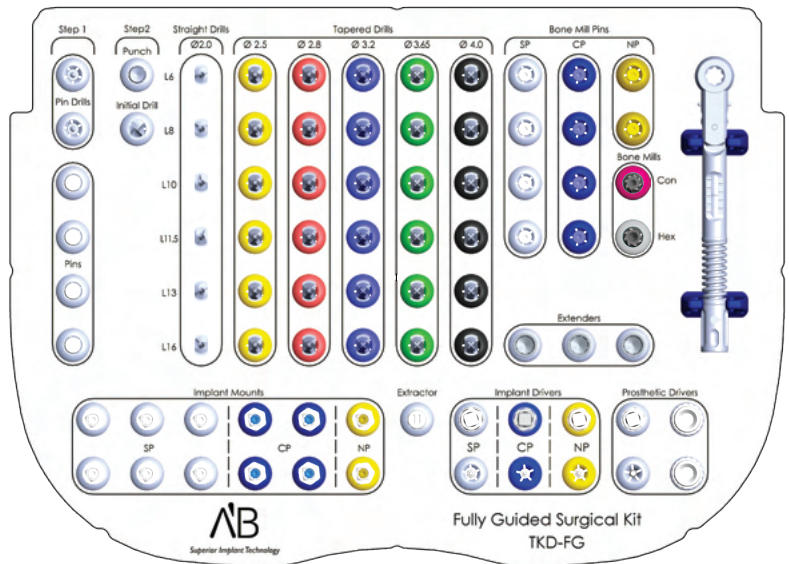
Superior Implant Technology

FULLY GUIDED SURGERY SET

The Digital Vanguard: Redefining Precision with a Fully Guided Surgery Set

An advanced solution for dental implant surgery, combining digital treatment planning with guided clinical execution. This system supports clinician control throughout the digital planning and guided surgical workflow – from the initial scan to implant insertion and final restoration.

TKD-FG SET MAP



THE TKD-FG SET CONTAINS THE FOLLOWING TOOLS, DRILLS AND DRIVERS:



TDG-1.5,19
Drill Without Internal Cooling (x2)



TP-1.5,31
Installation Pin (x4)



TDGTP-4.4
Tissue Punch Ø4.4,L9mm



TDGP-2.2,4.7 *
Pilot Drill Ø2.2,L4.7mm



TDGP-2.2,4.7,11 *
Pilot Drill Ø2.2,L4.7mm,Offset 11mm



TDGP-2.2,4.7,13 *
Pilot Drill Ø2.2,L4.7mm,Offset 13mm



TDGP-2.2,4.7,15 *
Pilot Drill Ø2.2,L4.7mm,Offset 15mm



TDGT-2.0,6
Straight Drill Ø2.0,L6mm



TDGT-2.0,8
Straight Drill Ø2.0,L8mm



TDGT-2.0,10
Straight Drill Ø2.0,L10mm



TDGT-2.0,11.5
Straight Drill Ø2.0,L11.5mm



TDGT-2.0,13
Straight Drill Ø2.0,L13mm



TDGT-2.0,16
Straight Drill Ø2.0,L16mm

* TDGP-2.2,4.7 Pilot Drills are **optional**



TDGT-2.5,6
Tapered Drill Ø2.5,L 6mm



TDGT-2.5,8
Tapered Drill Ø2.5,L8mm



TDGT-2.5,10
Tapered Drill Ø2.5,L10mm



TDGT-2.5,11.5
Tapered Drill Ø2.5,L11.5mm



TDGT-2.5,13
Tapered Drill Ø2.5,L13mm



TDGT-2.5,16
Tapered Drill Ø2.5,L16mm



TDGT-2.8,6
Tapered Drill Ø2.8,L 6mm



TDGT-2.8,8
Tapered Drill Ø2.8,L8mm



TDGT-2.8,10
Tapered Drill Ø2.8,L10mm



TDGT-2.8,11.5
Tapered Drill Ø2.8,L11.5mm



TDGT-2.8,13
Tapered Drill Ø2.8,L13mm



TDGT-2.8,16
Tapered Drill Ø2.8,L16mm



TDGT-3.2,6
Tapered Drill Ø3.2,L 6mm



TDGT-3.2,8
Tapered Drill Ø3.2,L8mm



TDGT-3.2,10
Tapered Drill Ø3.2,L10mm



TDGT-3.2,11.5
Tapered Drill Ø3.2,L11.5mm



TDGT-3.2,13
Tapered Drill Ø3.2,L13mm



TDGT-3.2,16
Tapered Drill Ø3.2,L16mm



TDGT-3.65,6
Tapered Drill Ø3.65,L 6mm



TDGT-3.65,8
Tapered Drill Ø3.65,L8mm



TDGT-3.65,10
Tapered Drill Ø3.65,L10mm



TDGT-3.65,11.5
Tapered Drill Ø3.65,L11.5mm



TDGT-3.65,13
Tapered Drill Ø3.65,L13mm



TDGT-3.65,16
Tapered Drill Ø3.65,L16mm



TDGT-4.0,6
Tapered Drill Ø4.0,L 6mm



TDGT-4.0,8
Tapered Drill Ø4.0,L8mm



TDGT-4.0,10
Tapered Drill Ø4.0,L10mm



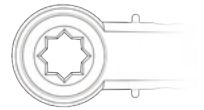
TDGT-4.0,11.5
Tapered Drill Ø4.0,L11.5mm



TDGT-4.0,13
Tapered Drill Ø4.0,L13mm



TDGT-4.0,16
Tapered Drill Ø4.0,L16mm



T8c-10-40Q
Ratchet-Torque Combination Quad Head 10-40 Ncm



PBMP-SP
Post for Bone Mill Pin SP (x4)



PBMP-CP
Post for Bone Mill Pin CP (x4)



PBMP-NP
Post for Bone Mill Pin NP (x2)



TDGBS,5.5
Bone mill Ø5.5mm SP



TDGBC,5.5
Bone mill Ø5.5mm CP and NP



TSE-FG
Short Extension for Ratchet



TLE-FG
Long Extension for Ratchet



TMA-FG
Extension for Contra Angle



T3GS-2.4,9
Implant Mount L9mm SP (x6)



T3GS-2.1,9
Implant Mount L9mm CP (x4)



T3GS-2.0,9
Implant Mount L9mm NP (x2)



T4GS,11
Extraction Screw for Implant Mount L11mm



T3-2.4,18
Implant Ratchet Hex Driver L18mm SP



T3C-4,18
Implant Ratchet Hex Driver L18mm CP



T3-2,18
Implant Ratchet Hex Driver L18mm NP



T5-2.4,25
Implant Contra Angle Driver L25mm SP



T5C-4,25
Implant Contra Angle Driver L25mm CP



T5-2,25
Implant Contra Angle Driver L25mm NP



T1-1.2,21
Abutment Ratchet Hex Driver
Ø1.27mm, L21mm



T5-1.2,26
Abutment Contra Angle Driver
Ø1.2mm, L26mm



T2-1.2,15
Abutment Hand Hex Driver
Ø1.2mm, L15mm



T2-1.2,9
Abutment Hand Hex Driver
Ø1.2mm, L9mm

UNCOMPROMISING PRECISION FROM PLANNING TO EXECUTION

ABGuidedSystem is based on an open digital protocol, integrating CBCT data with optical scans to create a high-precision, 3D-printed surgical guide. The planning is prosthetically driven, supporting implant positioning that aligns with the final aesthetic and functional goals.



KEY ADVANTAGES

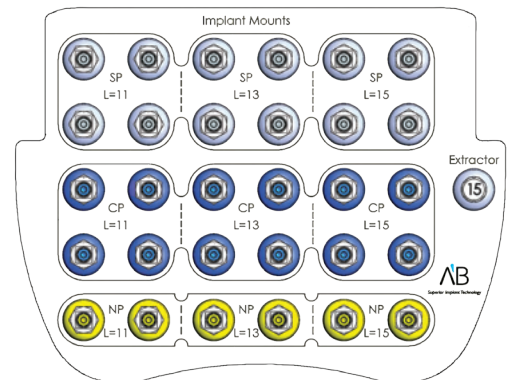
- **Spoon-less Method:** The system is designed to simplify the surgical workflow by eliminating the need for manual keys or 'spoons'.
- **Autogenous Bone Harvesting:** The drills geometry facilitates bone harvesting during site preparation, supporting the reuse of autogenous bone for augmentation in accordance with the applicable surgical protocol.
- **Advanced Drill Technology:** The drills are made of high-quality stainless steel with a DLC (Diamond-Like Carbon) coating, which is designed to reduce friction during use.
- **Dual Guidance System:** Each drill features a Pilot leading tip matched to the diameter of the preceding drill, designed to support stability and centering during drilling.
- **Minimally Invasive:** The Tissue Punch supports a flapless surgical approach when clinically appropriate.

EXPAND YOUR RANGE

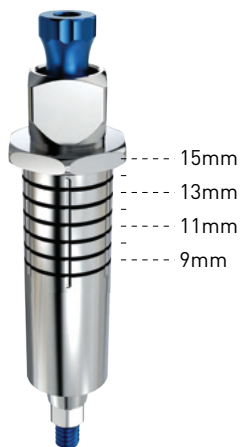
Expand your capabilities with our complementary kit, featuring the full range of implant mount sizes

TKD-FG-PLUS includes all implant mount sizes, for standard, narrow and conical platforms. This set is marketed separately.

TKD-FG-PLUS SET MAP



THE TKD-FG-PLUS SET CONTAINS THE FOLLOWING IMPLANT MOUNTS:



T3GS-2.4,11
Implant Mount L11mm SP (x4)

T3GS-2.4,13
Implant Mount L13mm SP (x4)

T3GS-2.4,15
Implant Mount L15mm SP (x4)

T3GS-2.1,11
Implant Mount L11mm CP (x4)

T3GS-2.1,13
Implant Mount L13mm CP (x4)

T3GS-2.1,15
Implant Mount L15mm CP (x4)

T3GS-2.0,11
Implant Mount L11mm NP (x2)

T3GS-2.0,13
Implant Mount L13mm NP (x2)

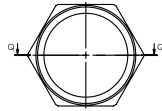
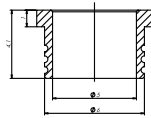
T3GS-2.0,15
Implant Mount L15mm NP (x2)

T4GS,15
Extraction Screw for
Implant Mount L15mm

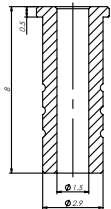
OPTIONAL - GUIDE RINGS



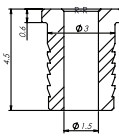
TRH-6-5
 $\varnothing$ 6/5, L4.1
 Hexagonal ring
 head for splint



TRS-2.9-1.5
 $\varnothing$ 2.9/1.5, L8
 Sleeve ring for
 splint fixation



TR-3-1.5
 $\varnothing$ 3/1.5, L4.5
 Sleeve ring for
 splint fixation



Ø External / Internal diameter



OPTIONAL - LONG DRILLS



TDGT-2.0,18
 Straight Drill $\varnothing$ 2.0, L18mm



TDGT-2.0,20
 Straight Drill $\varnothing$ 2.0, L20mm



TDGT-2.0,22
 Straight Drill $\varnothing$ 2.0, L22mm



TDGT-2.0,25
 Straight Drill $\varnothing$ 2.0, L25mm



TDGT-2.5,18
 Tapered Drill $\varnothing$ 2.5, L18mm



TDGT-2.5,20
 Tapered Drill $\varnothing$ 2.5, L20mm



TDGT-2.5,22
 Tapered Drill $\varnothing$ 2.5, L22mm



TDGT-2.5,25
 Tapered Drill $\varnothing$ 2.5, L25mm



TDGT-2.8,18
 Tapered Drill $\varnothing$ 2.8, L18mm



TDGT-2.8,20
 Tapered Drill $\varnothing$ 2.8, L20mm



TDGT-2.8,22
 Tapered Drill $\varnothing$ 2.8, L22mm



TDGT-2.8,25
 Tapered Drill $\varnothing$ 2.8, L25mm



TDGT-3.2,18
 Tapered Drill $\varnothing$ 3.2, L18mm



TDGT-3.2,20
 Tapered Drill $\varnothing$ 3.2, L20mm



TDGT-3.2,22
 Tapered Drill $\varnothing$ 3.2, L22mm



TDGT-3.2,25
 Tapered Drill $\varnothing$ 3.2, L25mm



TDGT-3.65,18
 Tapered Drill $\varnothing$ 3.65, L18mm



TDGT-3.65,20
 Tapered Drill $\varnothing$ 3.65, L20mm



TDGT-3.65,22
 Tapered Drill $\varnothing$ 3.65, L22mm



TDGT-3.65,25
 Tapered Drill $\varnothing$ 3.65, L25mm



TDGT-4.0,18
 Tapered Drill $\varnothing$ 4.0, L18mm



TDGT-4.0,20
 Tapered Drill $\varnothing$ 4.0, L20mm



TDGT-4.0,22
 Tapered Drill $\varnothing$ 4.0, L22mm



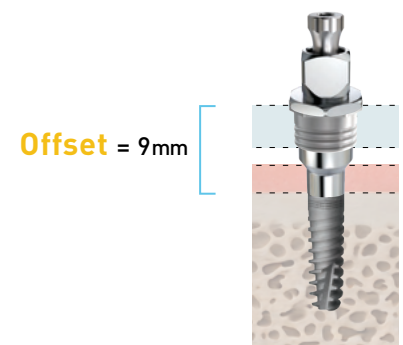
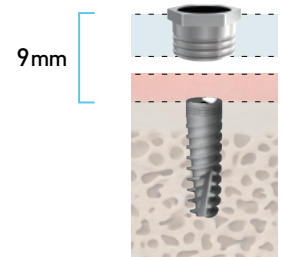
TDGT-4.0,25
 Tapered Drill $\varnothing$ 4.0, L25mm

DRILLING PROTOCOL

IMPLANT MOUNT AND OFFSET

The TKD-FG system includes implant mounts with a 9 mm offset. The offset is defined as the distance between the coronal surface of the guide ring (sleeve) and the coronal end of the implant when the implant is seated in its planned final position.

- Offset height is a key parameter in the design and planning of guided surgical templates, as it directly influences the available drilling and implant insertion depth.
- By selecting the appropriate offset, clinicians can optimize guide positioning to accommodate anatomical constraints, including adjacent teeth morphology, limited interocclusal space, and soft tissue (gingival) height.
- Additional implant mount offsets are available in the TKD-FG-PLUS kit, providing greater flexibility for case-specific treatment planning.



Range of application for the offset: $\frac{9}{\text{Base}}$ / $\frac{11}{+2}$ / $\frac{13}{+4}$ / $\frac{15}{+6}$

Total drill length = Final Offset – 9 + Implant length

DRILLING PROTOCOL BY IMPLANT LENGTH AND OFFSET

Offset	Implant length									
	6	8	10	11.5	13	16	18	20	22	25
9	6	8	10	11.5	13	16	18	20	22	25
11	8	10	13-1	16-2.5	16-1	18	20	22	25-1	--
13	10	13-1	16-2	18-2.5	18-1	20	22	25-1	--	--
15	13-1	16-2	16	20-2.5	20-1	22	25-1	--	--	--

SPACER RINGS

In order to allow reaching every needed depth of the drills for preparation, TKD-FG kit includes **Ring Insertion & Extraction Instrument** and **Spacer rings** that can shorten the effective length of each drill by 1 / 2 / 2.5 mm.

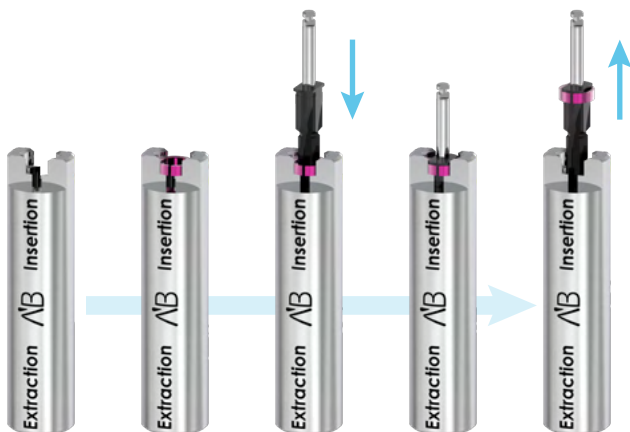


RING INSERTION & EXTRACTION INSTRUMENT

This dual-sided instrument allows for easy attachment and removal of spacer rings. Follow the guide based on which end you use:

INSERTION: Applying a spacer ring onto a drill

- **READY:** Place a spacer ring into the insertion end.
- **INSERT & PUSH:** Insert a drill and push downward.
- **APPLY:** The drill retains the new ring.



TSRI-FG

Ring Insertion & Extraction Instrument

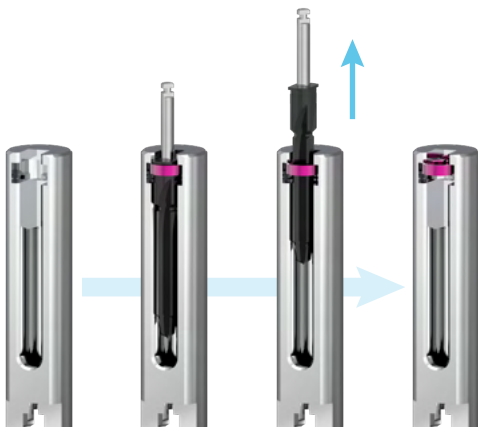


Insertion Assembly

Extraction Assembly

EXTRACTION: Removing a spacer ring from a drill

- **LOAD:** Insert the drill, with the ring attached, into the extraction end.
- **PULL:** Pull the drill upward.
- **CLEAR:** The drill is removed and the ring remains inside the instrument.



1. A drill passing through the **guide ring**.
2. A drill with a **2mm spacer ring** attached.
3. A drill passing through the **guide ring** with a **2mm spacer ring** attached: the spacer ring reduces the effective working length by **2mm**.



RECOMMENDED DRILL PROTOCOL

DRILLING PROTOCOL NOTES

- The following page presents example drilling protocols for the I5-3.75,10 implant across different offsets.
A standard platform implant (SP) mount is used in these examples.
- The rationale of the drilling sequence is to progress from **shorter to longer** drills, and from **narrower to wider** diameters, until the planned implant dimensions are reached.
- For **dense bone**, a final short drill may be used to prepare the cortical layer (optional).
- For **subcrestal** placement, use a **bone mill** to widen the coronal aspect of the osteotomy to accommodate the healing cap, scan bodies or impression copings, and prosthetic components.

Clinical consideration – Circumferential bone clearance around the implant neck:

Tissue punch: Ø 4.4 mm

Bone mill (SP): Ø 5.9 mm

Bone mill (CP/NP): Ø 5.2 mm

Please note that these diameters exceed most implant dimensions.

- The surgical guide must be removed from the mouth at specific stages during the procedure to ensure proper visibility and access. Please follow this sequence:
 1. Begin the guided phase by securely seating the surgical guide.
 2. Use the **tissue punch**.
 3. **Remove** the surgical guide.
 4. Clear any remaining tissue from the punch site.
 5. Reseat the surgical guide.
 6. Proceed with the drilling sequence according to the selected implant.
 7. **Remove** the surgical guide before using the **bone mill**.
 8. Screw the bone mill pin into the implant, and operate the bone mill.

The guide removal stages are indicated by a ▼ symbol on the drill protocol illustrations on the following page.

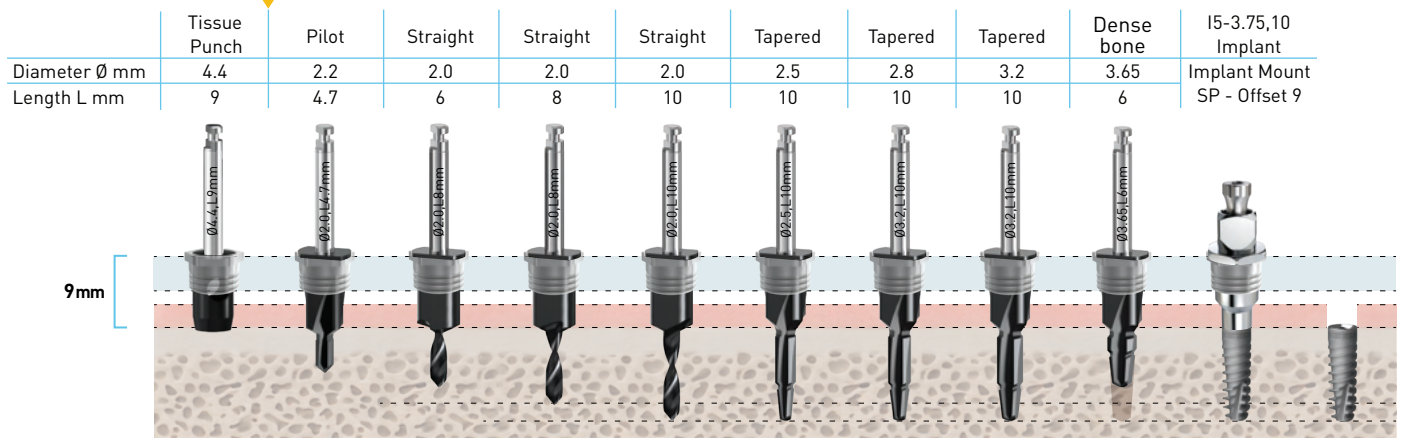
Important:

1. The instructions provided herein constitute recommended protocols only. The clinician must exercise independent professional judgment and adapt all treatments to the specific clinical needs of each patient.
2. The illustrated drill sequence is a recommendation only and may be modified based on the clinician's knowledge and experience, as well as the specific clinical case.
3. Due to drill geometry, the tip extends up to 0.7 mm beyond the planned implant depth, e.g., drilling to the 10 mm mark creates a 10.7 mm osteotomy.

IMPLANT: I5 Ø3.75mm, L10mm

OFFSET 9

No Spacer ring needed

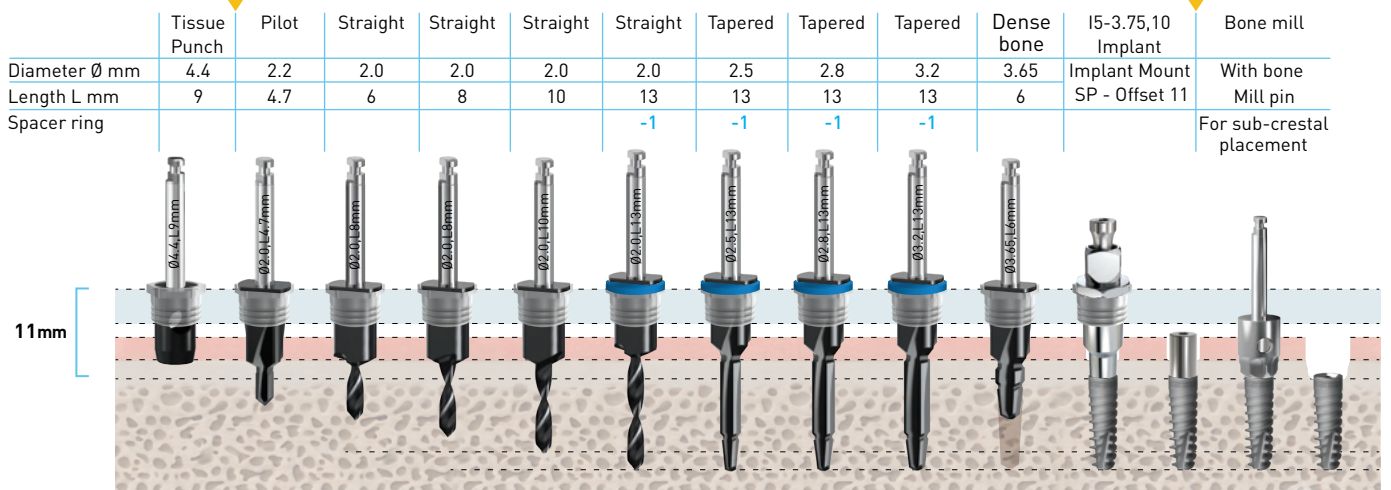


OFFSET 11

1mm Spacer ring



In this example, the implant is placed 2 mm subcrestally, requiring an increased offset.



OFFSET 13

2mm Spacer ring



In this example, the implant is placed 2 mm subcrestally, and the gingival height is increased.

