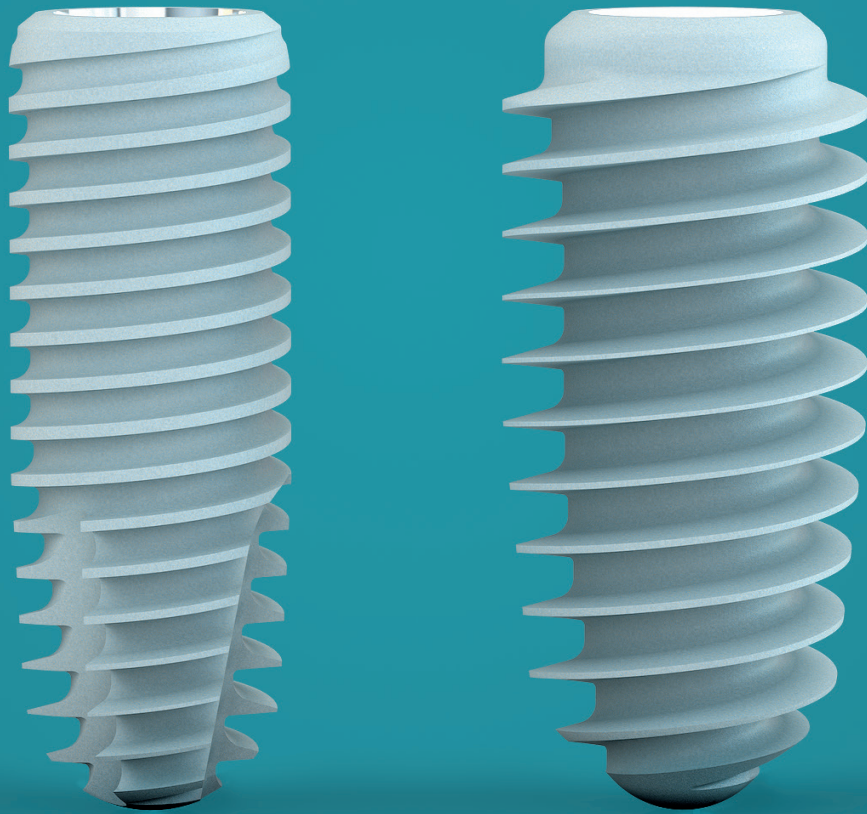


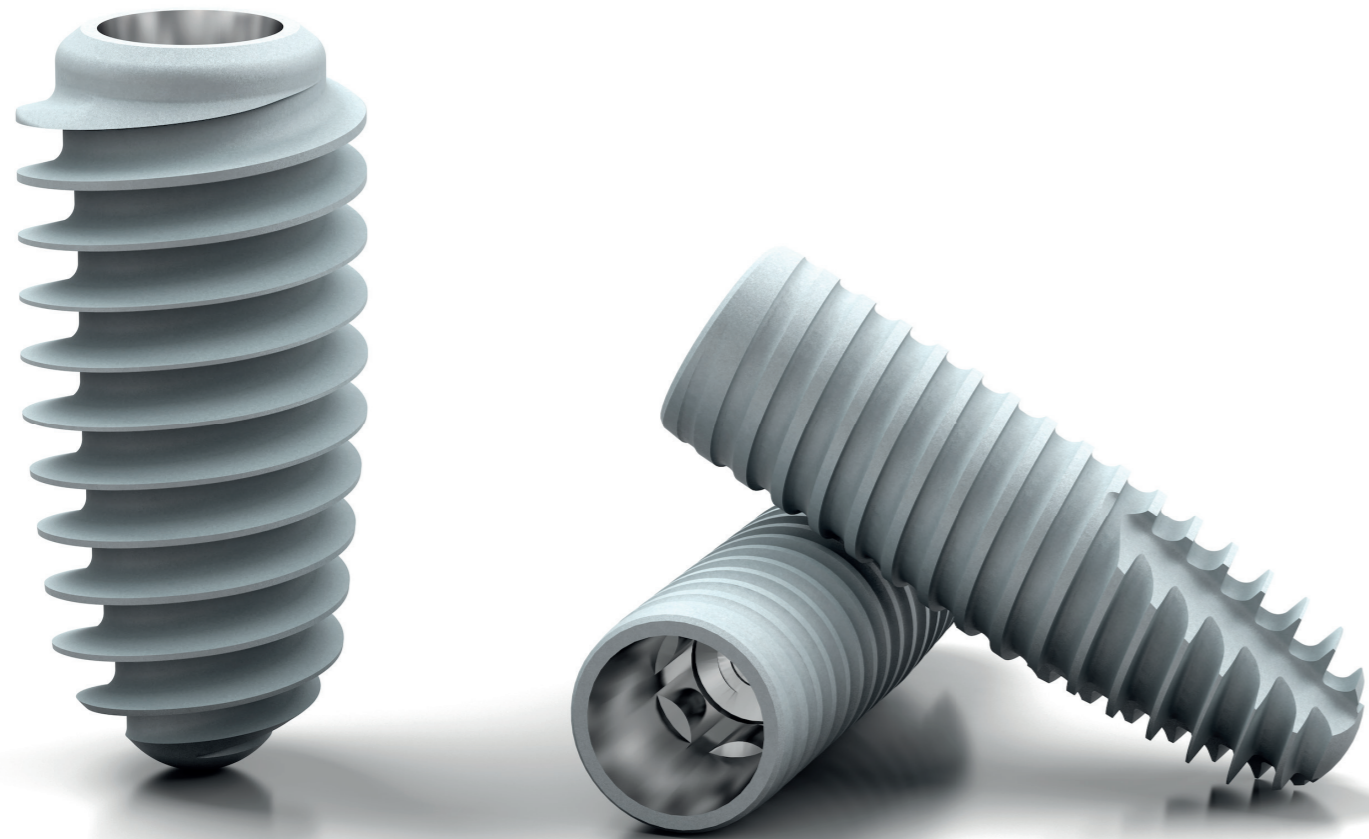
# Kontakt™ s / s+

- USER MANUAL -



BIOTECH DENTAL

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## 3. GENERAL INFORMATION p.30

# 1. Characteristics

## 1 KONTACT™ S & KONTACT™ S+ IMPLANTS





## KONTACT™ S implant

This implant is based on the same Kontakt™ principle and stands out by the new thread design and choice of material. Indeed, by being made of grade 4 titanium material, its softened thread anchors the implant progressively in the bone. The Kontakt™ S will therefore provides a "Softer" clinical alternative.

The benefits of the reduction in the insertion force (torque), due to the progressive threading are as follows:

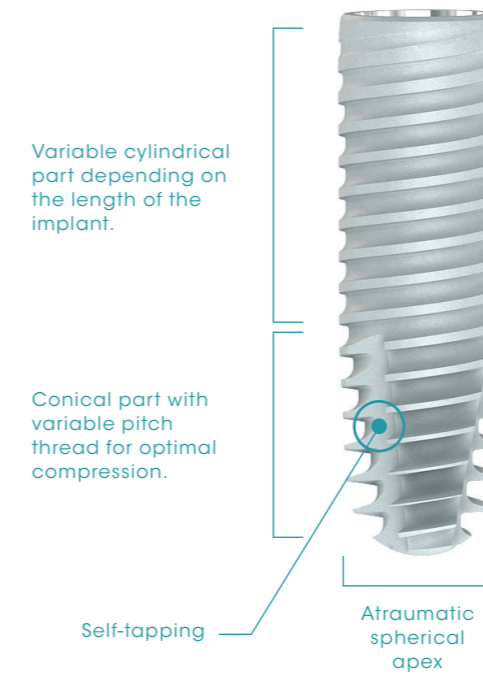
- > **Easier insertion,**
- > **Reduce peri-implant bone loss, thereby promoting bone biology.**

### STSystem® indexing

For implants of  $\varnothing$  3.6 -  $\varnothing$  4.2 -  $\varnothing$  4.8 and  $\varnothing$  5.4 mm.



Top view



✓ Implants in **titanium Grade 4**: pure titanium

✓ Etched sandblasted surface treatment

✓ STSystem® patented connection system

## KONTACT™ S+ implant

The alternate thread of the Kontakt™ S+ implant, which is a development of the Kontakt™ S, increases the primary grip; it is therefore particularly indicated in cases of post-extraction implantation and in the event of low-density bone.

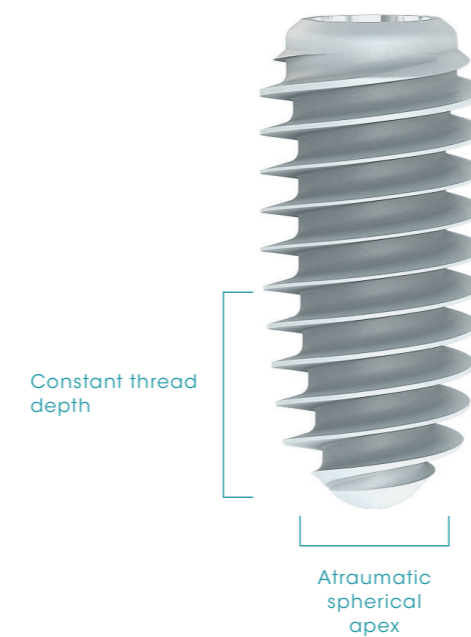
It benefits from the same connection as all Kontakt™ implants.

### STSystem® indexing

For implants with external  $\varnothing$  4.0 -  $\varnothing$  4.5 -  $\varnothing$  5.0 and  $\varnothing$  5.5 mm.



Top view



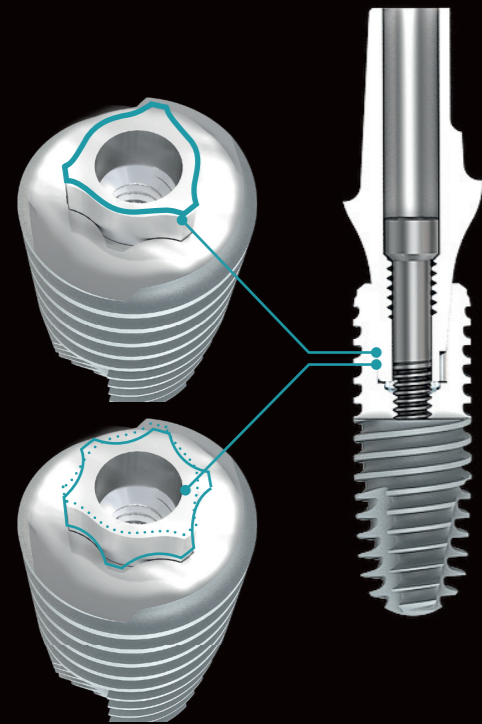
✓ Drilling comfort

✓ Use of the same prosthetic kits and parts as the Kontakt™ implant



## 2. Connexion system

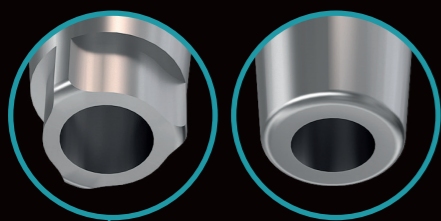
Common connection system between the Kontakt™ S and the Kontakt™ S+



- ✓ Resistant assembly
- ✓ Tight sealed connection
- ✓ Easy insertion
- ✓ Fast and reliable to reposition

**Kontakt™ S and Kontakt™ S+ implants are intended to fit prostheses from the Kontakt™ range; the connection system is the same for the entire range, thereby ensuring compatibility with the abutments.**

There are two types of abutment available: **indexed** and **non-indexed**.



All our prosthetic components are laser engraved according to their sizes.

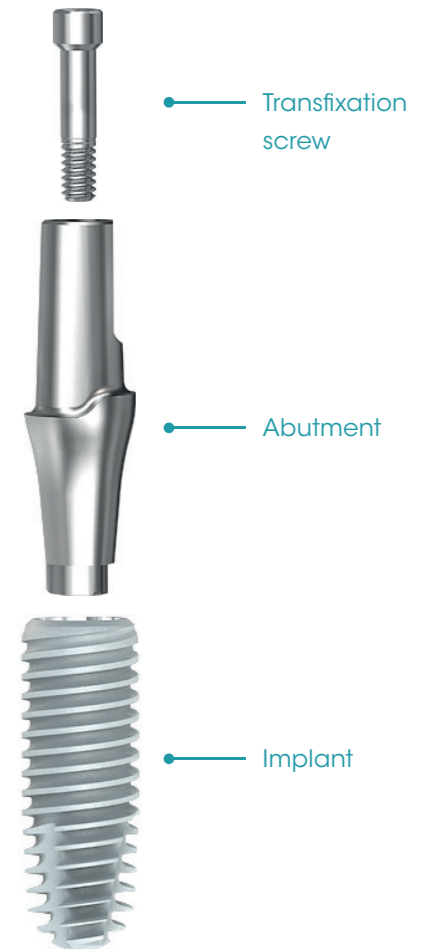
Mirror finish

### SIX-THREE SYSTEM® CONNECTION (STSystem®)

The Kontakt™ S range has a Morse taper locking system which is identical to the Kontakt™.

This system stabilizes the abument-implant connection and offers recognised mechanical benefits.

- ✓ **Strong resistance to stretching and torsion: the parts are perfectly interlocked.**
- ✓ **No micro-movement, deformation or screw failure.**



### PRECLINICAL STUDY

For the Kontakt™ implant, a study aimed at appraising the quality of the sealed connection between the prosthetic stage and the implant has enabled to highlight the reliability of our system. It has demonstrated that our mounting system met all required tight sealed criteria (Biotech Dental preclinical data - Study 30/12/2013).

### PLATFORM SWITCHING

Platform switching uses **prosthetic abutments whose emergence diameter is smaller than the diameter of the implant neck.**

It **promotes bone stability** (by limiting peri-implant bone resorption) and **aesthetic appearance**.



Kontakt™ S range **ensures tissues preservation**. Indeed, the combination of a morse taper connector and a platform switching can guarantee a **perfect and impermeable connection** with microbial development. And also a **screw-abutment-implant structure which is totally stable, reliable and sustainable**.



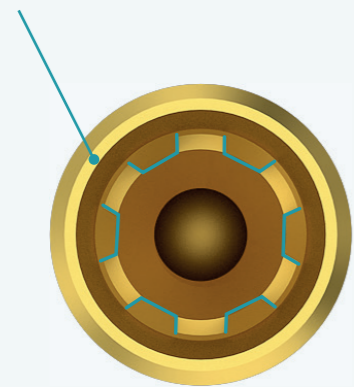
### SPECIAL 3.0 MM DIAMETER\*

Only concerns the **Contact™ S implant**.  
For the single-unit prosthesis only, whether it is sealed or screw-retained on a Ti-Base.

#### > Implant characteristics

##### 3.0 mm diameter

6 indexing sections using internal grooves for Ø 3.0 mm implants.



View of the analog connection

The Ø 3.0 mm implants are reserved for small spaces. They can be used to replace mandibular incisors and maxillary lateral incisors.

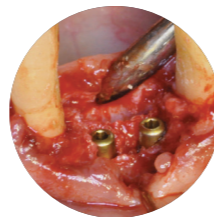
#### > Note

For Ø 3.0 mm implants, the cover screw Ref. K30VRC is delivered free of charge. The high cover screw Ref. K30VRCE is delivered free of charge on request. The cover screws for Ø 3.0 mm implants are yellow.



#### > Caution

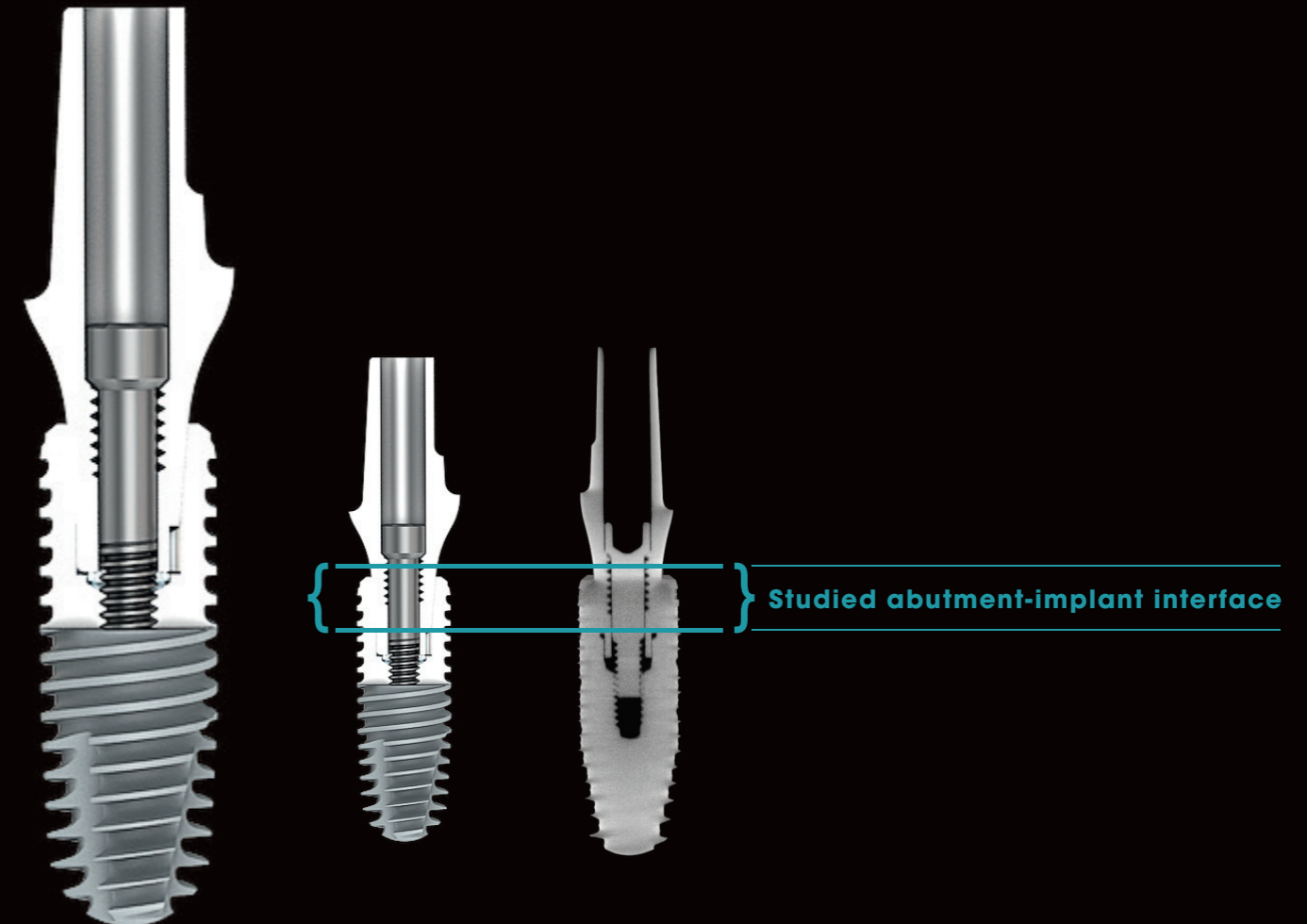
Clean the inside of the implant thoroughly before fitting the cover screw or healing screw.



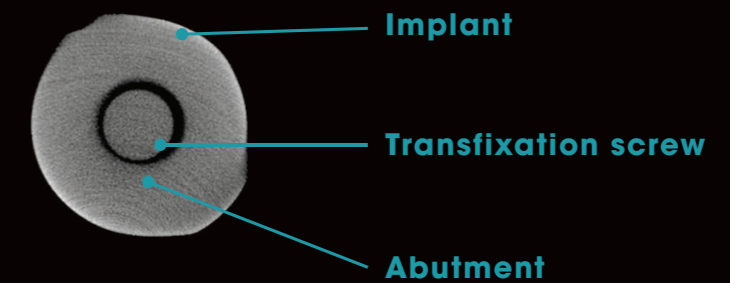
\*All parts and instruments in the range relating to the Ø 3.0 mm implants are identifiable by their yellow colour and can be identified in this manual by yellow dotted lines.

## 3. Study of the abutment / implant interface

Identical for the Contact™ S and the Contact™ S+



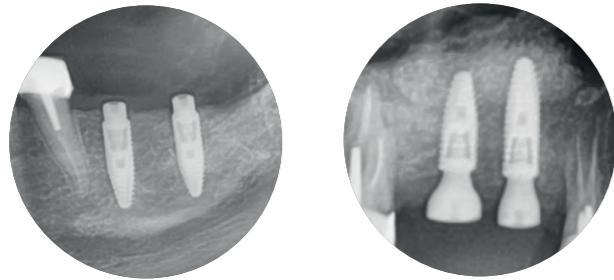
ASSEMBLED DEVICE



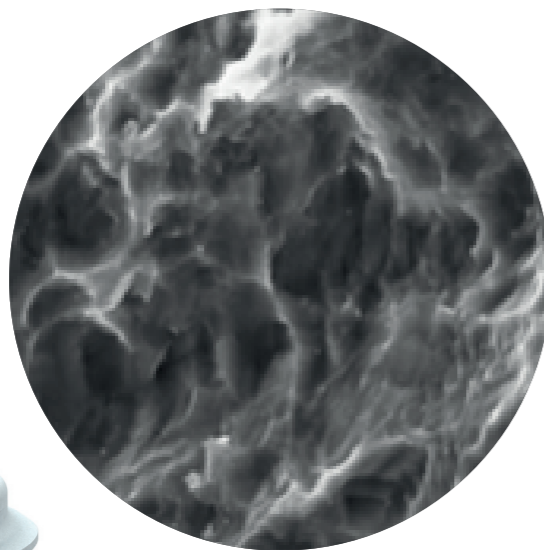
The cross-section of the abutment-implant connection representing the remarkable tightness of the device.

## 4. Surface treatment

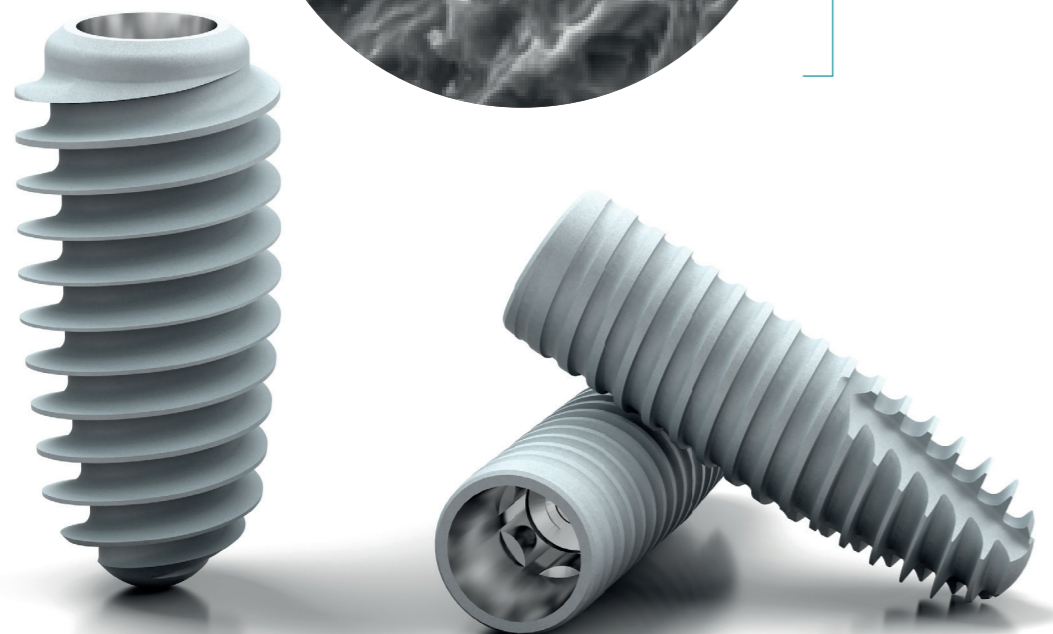
KONTACT™ S and KONTACT™ S+ in titanium Grade 4 with an etched sandblasted surface treatment.



Etched sandblasted surface structure for superior bone apposition.



View of the surface treatment x 2000



## 5. Implant packaging

### Packaging characteristics

- ✓ Outer cardboard packaging with a sterile double barrier.
- ✓ Traceability label containing all the information about the implant.
- ✓ Stable implant holder for placement on the surgical site.
- ✓ Short cover screw delivered with the implant.
- ✓ High cover screw delivered free of charge on request.
- ✓ Titanium collar and drill stop on either side of the implant to avoid contact with the plastic.
- ✓ Label stating the implant's dimensions on the implant holder.



Cardboard packaging, held closed with tamper-proof labels.



Traceability label



Sealed blister pack containing the implant holder.

2<sup>nd</sup> sterile barrier



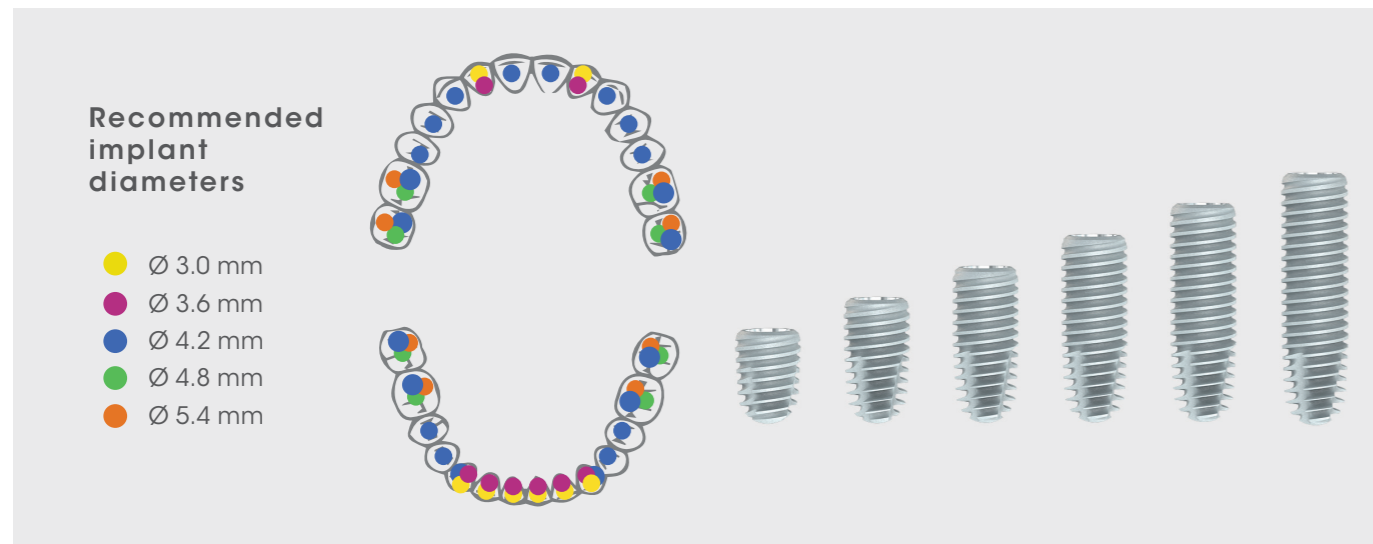
Implant holder with second cover.

1<sup>st</sup> sterile barrier



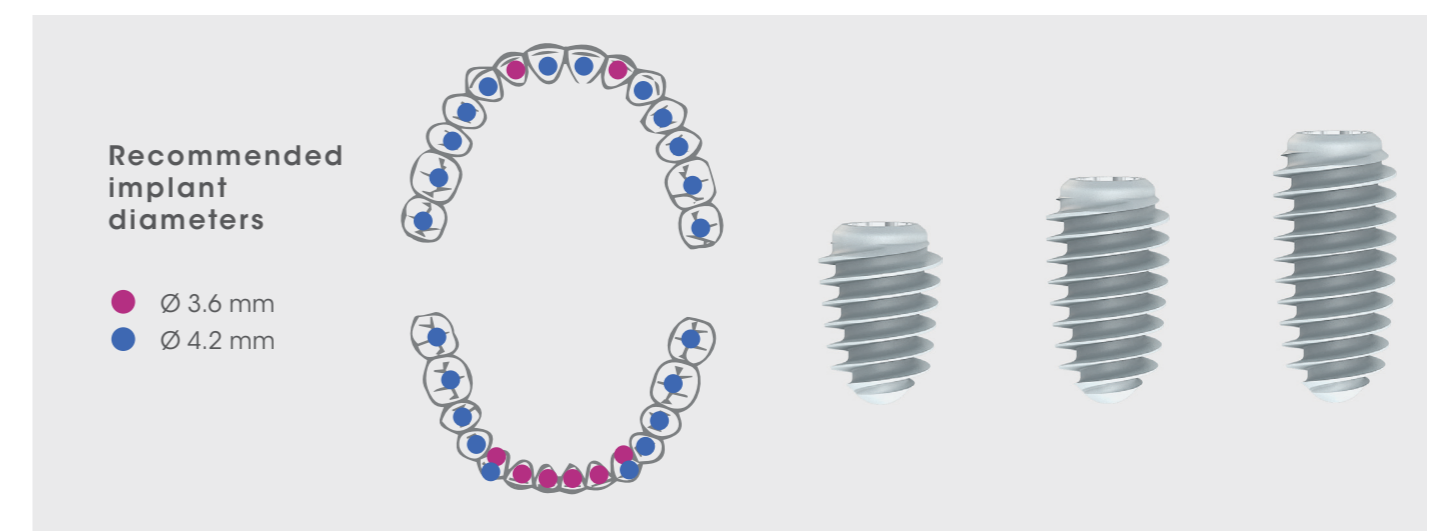
## 6. Implants references

KONTACT™ S	References	Diameters	Lengths	Colours
	K3010S	Ø 3.0 mm	10 mm	Yellow
	K3012S		12 mm	
	K3014S		14 mm	
	K3608S	Ø 3.6 mm	8 mm	Magenta
	K3610S		10 mm	
	K3612S		12 mm	
	K3614S		14 mm	
	K3616S*		16 mm	
	K4206S	Ø 4.2 mm	6 mm	Blue
	K4208S		8 mm	
	K4210S		10 mm	
	K4212S		12 mm	
	K4214S		14 mm	
	K4216S*		16 mm	
	K4806S	Ø 4.8 mm	6 mm	Green
	K4808S		8 mm	
	K4810S		10 mm	
	K4812S		12 mm	
	K4814S		14 mm	
	K5406S	Ø 5.4 mm	6 mm	Orange
	K5408S		8 mm	
	K5410S		10 mm	
	K5412S		12 mm	
	K5414S		14 mm	



\* 16 mm step drills and reamer drills are not supplied with the surgical kit but available upon request.

KONTACT™ S+	References	External diameters	Body diameters	Lengths	Colours
	K4008-36S	Ø 4.0 mm	Ø 3.6 mm	8 mm	Magenta
	K4010-36S			10 mm	
	K4012-36S			12 mm	
	K4508-36S	Ø 4.5 mm	Ø 3.6 mm	8 mm	Magenta
	K4510-36S			10 mm	
	K4512-36S			12 mm	
	K4508-42S	Ø 4.5 mm	Ø 4.2 mm	8 mm	Blue
	K4510-42S			10 mm	
	K4512-42S			12 mm	
	K5008-42S	Ø 5.0 mm	Ø 4.2 mm	8 mm	Blue
	K5010-42S			10 mm	
	K5012-42S			12 mm	
	K5508-42S	Ø 5.5 mm	Ø 4.2 mm	8 mm	Blue
	K5510-42S			10 mm	
	K5512-42S			12 mm	



**!** Kontakt™ S+ implants with a 3.6mm diameters are dedicated to anterior sector.

## 1. Surgical kit

- 1 Drill extension
- 2 Drill bit for implant removal
- 3 Contra-angle screwdriver
- 4 Manual screwdriver / torque wrench key
- 5 Cortical drill for the Kontakt™ S+
- 6 Marking drill Ø 1.5 mm
- 7 Pilot drills Ø 2,0 mm
- 8 Implant mountdrivers for contra-angle
- 9 Axial gauges
- 10 Step drills
- 11 Reamer drills
- 12 Implant mountdrivers
- 13 Torque wrench key surgery

### Optional

- 14 Spacer parallelizer
- 15 Drilling depth gauges
- 16 Step drills and reamer drills for 16 mm





































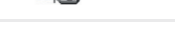



# 2

## INSTRUMENTS

	References	Designations	Implants diameters	Lengths
	ESP	Spacer parallelizer		
	K30EX	Abutment extractors	Ø 3.0 mm	Short
	K30EXL			Long
	KEX	Abutment extractor	All Ø	Short
	KEXL			Long
	KEXV	Abutment extractor with broken screw		
	1034	Countersink cutter Ø1.9mm		
	1001SI	Marking drill Ø1.5mm without irrigation		
	KFT	Trocar point marking drills		Short
	KFTL		Long	
	KFE20	Pilot drills Ø 2 mm		Short
	KFE20L		Long	
	KFE2016*		16 mm	
	KFE3016*	Step drill		16 mm
	KJA30	Axial gauge	Ø 3.0 mm	
	KJA36	Axial gauges	Ø 3.6 mm	
	KJA42		Ø 4.2 mm	
	KJA48		Ø 4.8 mm	
	KJA54		Ø 5.4 mm	

 Optional

	References	Designations	Implants diameters	Lengths	Colours
	KFE30	Step drills	Ø 3.0 mm	Short	
	KFE30L			Long	
	KFE36	Step drills	Ø 3.6 mm	Short	
	KFE36L			Long	
	KFE3616*			16 mm	
	KFE42	Step drills	Ø 4.2 mm	Short	
	KFE42L			Long	
	KFE4216*			16 mm	
	KFE48	Step drills	Ø 4.8 mm	Short	
	KFE48L			Long	
	KFE54	Step drills	Ø 5.4 mm	Short	
	KFE54L			Long	
	KF30	Reamer drills	Ø 3.0 mm	Short	
	KF30L			Long	
	KF36	Reamer drills	Ø 3.6 mm	Short	
	KF36L			Long	
	KF3616*			16 mm	
	KF42	Reamer drills	Ø 4.2 mm	Short	
	KF42L			Long	
	KF4216*			16 mm	
	KF48	Reamer drills	Ø 4.8 mm	Short	
	KF48L			Long	
	KF54	Reamer drills	Ø 5.4 mm	Short	
	KF54L			Long	
	KFCS-40**	Crestal bone profiler for implant	Ø 4.0 mm		
	KFCS-45**		Ø 4.5 mm		
	KFCS-50**		Ø 5.0 mm		
	KFCS-55**		Ø 5.5 mm		

 Optional

\* 16 mm step drills and reamer drills are not included in the surgical kit but only available as an option.  
 \*\* The crestal bone profiler for implants are not included in the surgical kit but only available as an option.










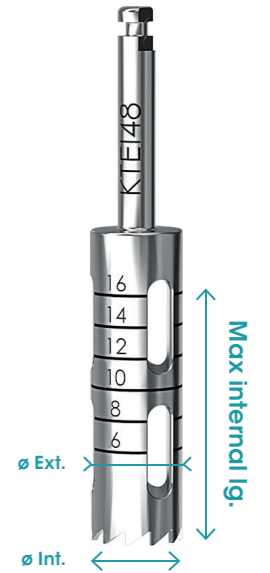
	References	Designations	Implants diameters	Lengths
	K30MPICA	Contra-angle chuck	Ø 3.0 mm	
	KMPICAC	Contra-angle chuck	All Ø	Short
	KMPICAL			Long
	KMPICAXL			Extra long
	K30MPI			Contra-angle chuck
	KMPIC	Manual chuck	All Ø	Short
	KMPIL			Long
	KMPIXL			Extra long
	TCAS			Contra-angle hexagonal screwdriver
	TCA	Standard		
	TCAL	Long		
	1028	Drill extension		
	1032S	Hexagonal manual screwdriver		Short
	1032	Hexagonal prosthesis screwdriver		Standard
	1032L	Hexagonal manual screwdriver		Long
	KAIP	Placement key for IsoPost		
	KCCD	Torque wrench key surgery		
	KCCDL	Long torque wrench key surgery detachable		
	KJP30	Depth gauge terminal drilling	Ø 3.0 mm	
	KJP36	Depth gauges terminal drilling	Ø 3.6 mm	
	KJP42		Ø 4.2 mm	
	KJP48		Ø 4.8 mm	
	KJP54		Ø 5.4 mm	

 Optional

## IMPLANT REMOVAL



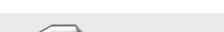
Implant removal requires an extraction drill bit.  
There is an drill bit for each diameter of Kontakt™ S and Kontakt™ S+ implant.  
**Recommended speed of use:** 500 to 800 rpm with irrigation.

	References	Designations	Internal ø	External ø	Max internal lg.
	KTEI30	Drill bit for implant removal	3.4 mm	4.0 mm	18 mm
	KTEI36		4 mm	4.6 mm	
	KTEI42		4.6 mm	5.2 mm	
	KTEI48		5.2 mm	5.8 mm	
	KTEI54		5.8 mm	6.4 mm	



## CORTICAL DRILLS WITH GUIDANCE IN THE IMPLANT

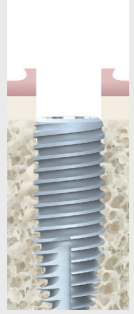
Cortical drill for healing screw and abutment.  
The cortical drill allows to remove, if necessary, excess of supra-implant cortical bone.

	References	Designations	Diameters prosthetic parts
	KFC30	Cortical drill for healing screw	Ø 3.0 mm
	KFC4-5	Standard cortical drills for healing screw	Ø 4.0 mm - Ø 5.0 mm
	KFC65		Ø 6.5 mm

Recommended speed of use: 200 rpm.

## 2. Drilling protocol

### KONTACT™ S



#### RECOMMENDED

Implant placed at the **subcrestal level** (2 mm) in order to promote bone growth over the implant.

- In case of D3 bone type, use an undersized drill. Do not under-drill in depth.
- In case of D4 bone type, use the Kontakt™ S+.

Ø  
3.0 mm



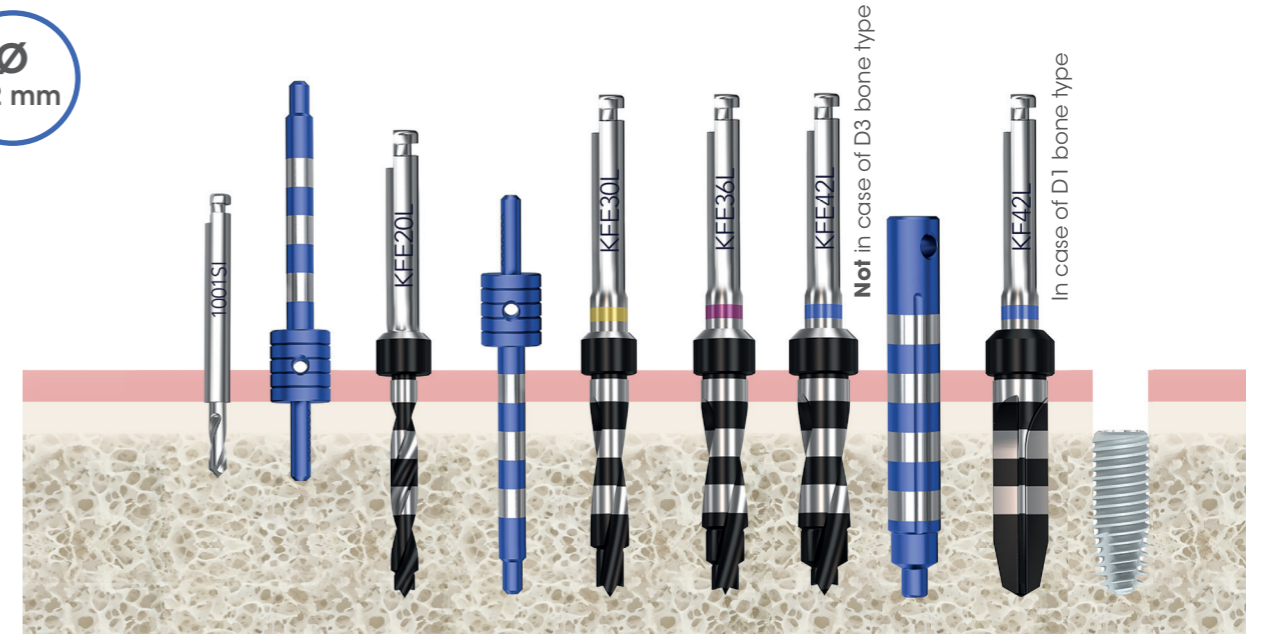
Example: K3012S

Ø  
3.6 mm



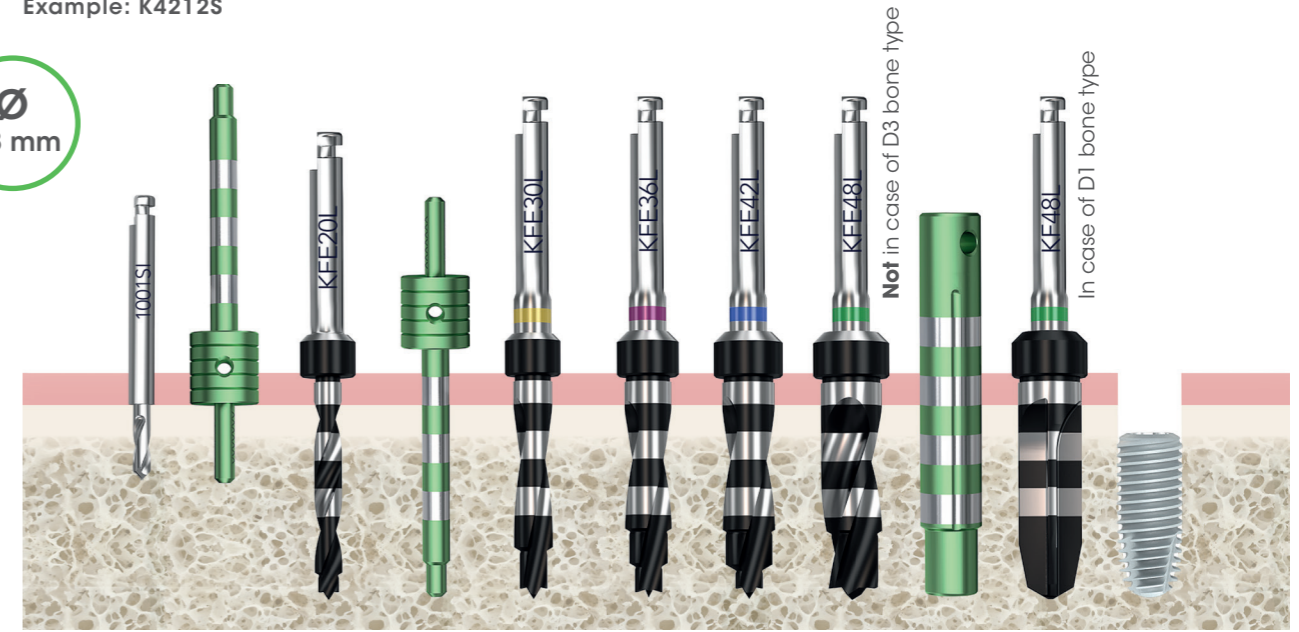
Example: K3612S

Ø  
4.2 mm



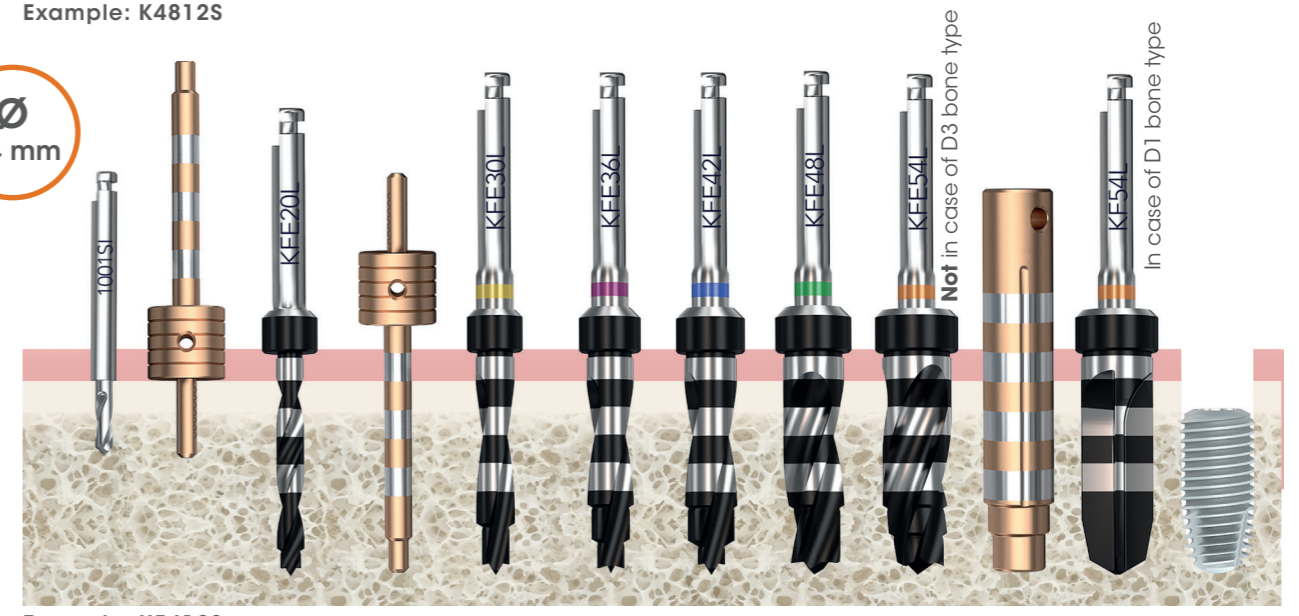
Example: K4212S

Ø  
4.8 mm



Example: K4812S

Ø  
5.4 mm



Example: K5412S



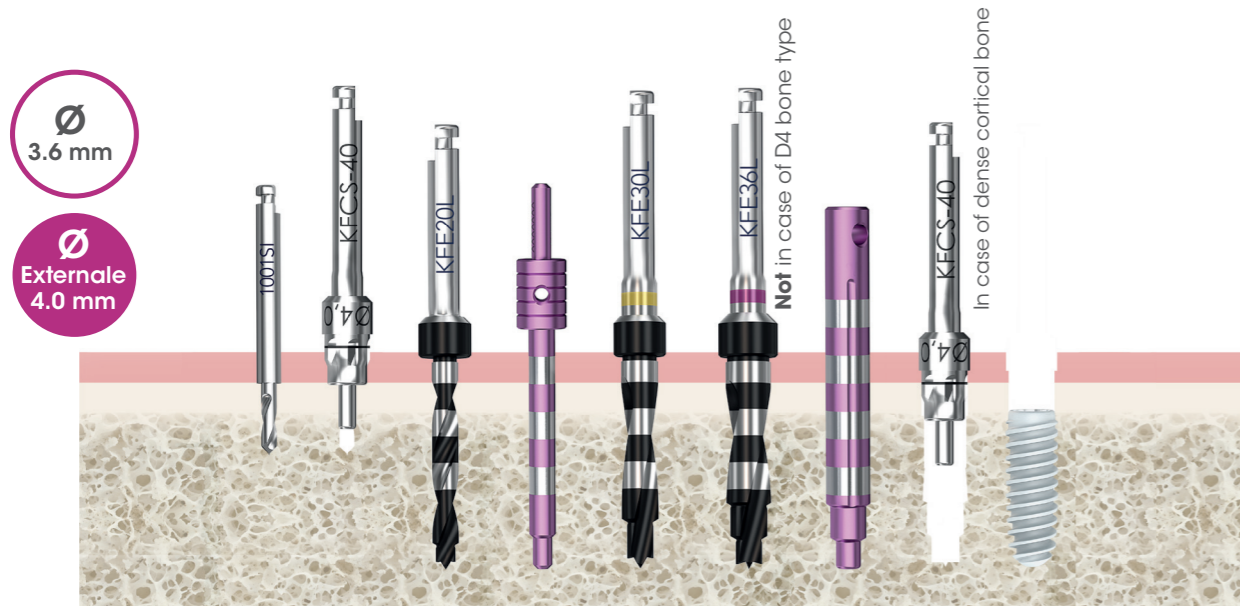
# KONTACT™ S+



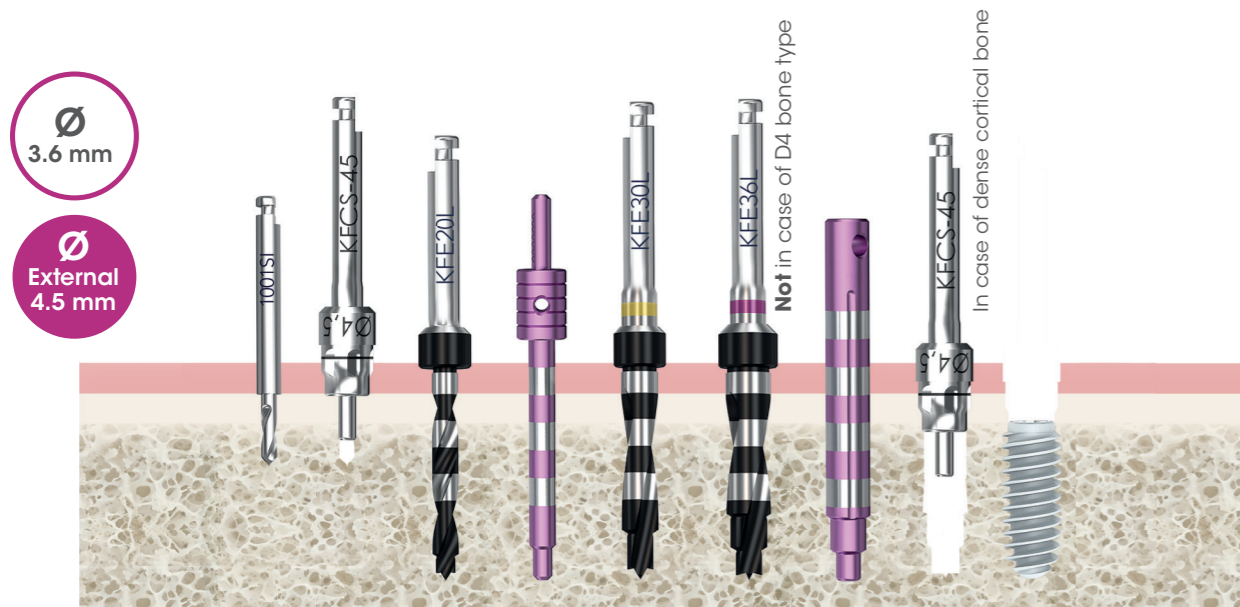
## ! RECOMMENDED

Implant placed at the **subcrestal level (2 mm)** in order to promote bone growth over the implant.

- Drill 2 mm deeper than the length of the implant for a recommended 2 mm subcrestal placement.
- In case of D4 bone type, use the widest possible external diameter, or an undersized drill. Do not sub-drill deep.
- Cortical drills should be used just before implant insertion in case of dense cortical bone. They can also be used after the pilot drill to visualise the external diameter of the implant.



Example: K4012-36S



Example: K4512-36S

## ! RECOMMENDED

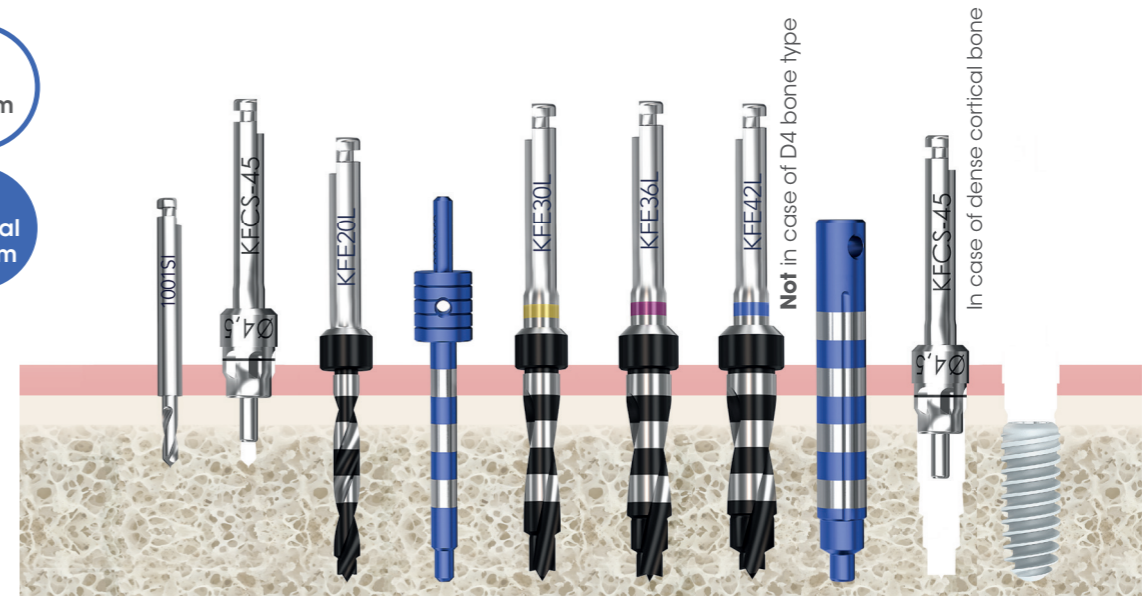
➤ External diameters **5.0** et **5.5** mm recommended in case of D4 bone type.

External 5.0 mm

External 5.5 mm

Ø 4.2 mm

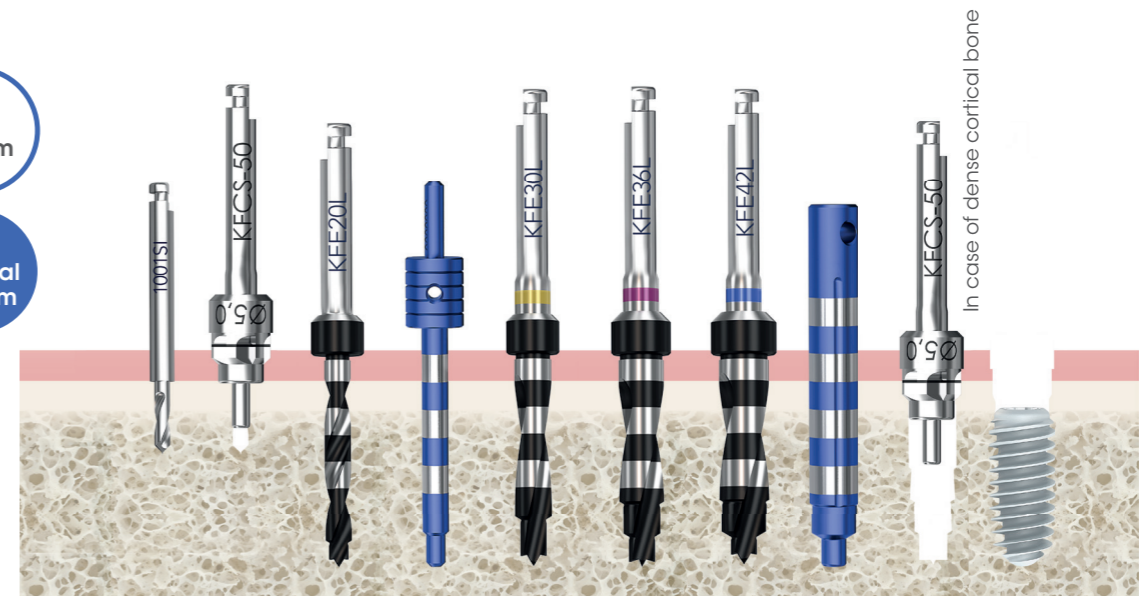
External 4.5 mm



Example: K4512-42S

Ø 4.2 mm

External 5.0 mm



Example: K5012-42S

Ø 4.2 mm

External 5.5 mm



Example: K5512-42S



### > Recommended drilling protocol based on bone density

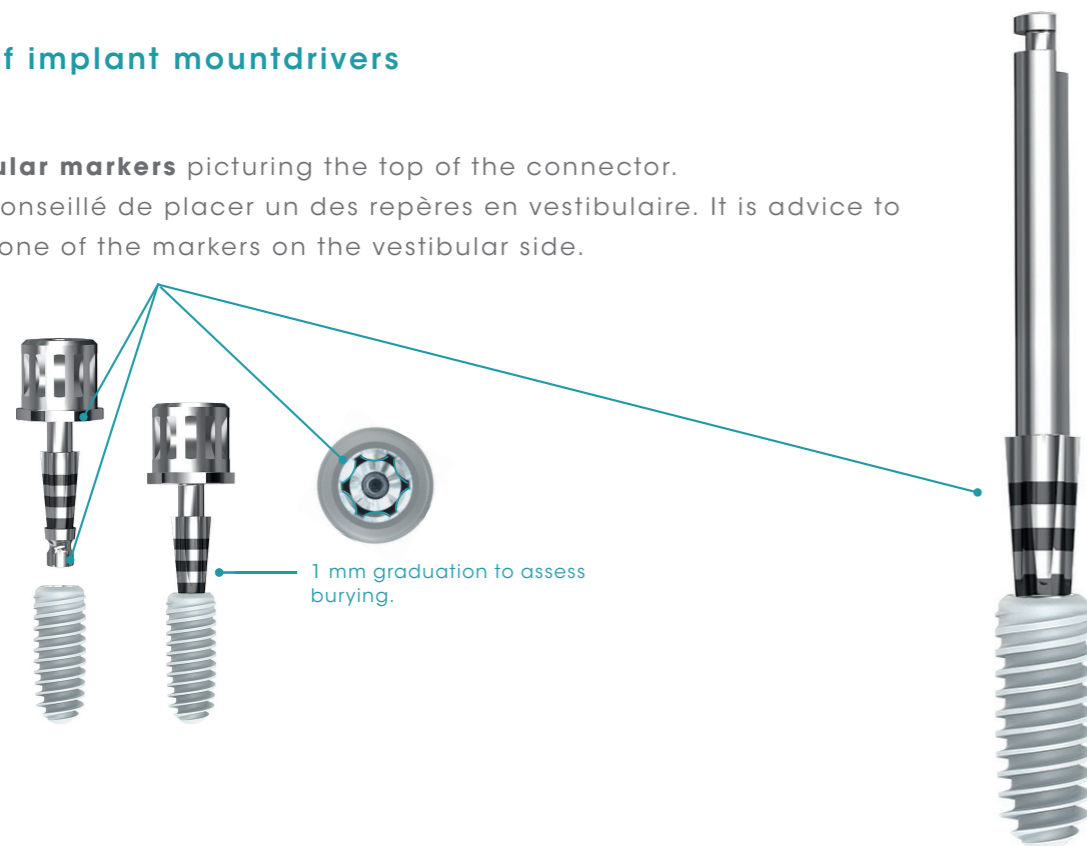
Types of bones	Kontakt™ S protocols	Kontakt™ S+ protocols
<b>D1</b>	Standard protocol with reamer.	Preferably use the Kontakt™ S.
<b>D2</b>	Standard protocol.	Preferably use the Kontakt™ S.
<b>D3</b>	<b>Use an undersized drill.</b> One diameter smaller.	Standard protocol. If the cortical bone is hard, use cortical drills.
<b>D4</b>	Preferably use the Kontakt™ S+.	<b>External Ø 5.0 and 5.5 mm recommended OR undersized drilling approach with a drill whose diameter is for implants with an external Ø 4.0 and 4.5 mm.</b> If the cortical bone is hard, use cortical drills.

### > Recommended drilling speeds

Instruments	Rotation speeds
Drills Ø 1.5 / Ø 2.0 mm	1500 rpm
Yellow, magenta and blue drills	1000 - 1200 rpm
Green and orange drills	700 - 900 rpm
Reamer	200 rpm
Drill / bur	200 rpm
Implant	15 rpm

### > Use of implant mountdrivers

**6 angular markers** picturing the top of the connector.  
Il est conseillé de placer un des repères en vestibulaire. It is advice to place one of the markers on the vestibular side.

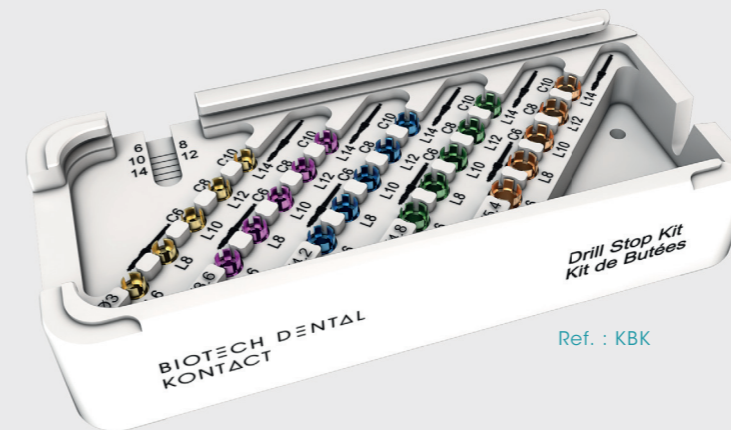


## 3. Drill stops kit

### > Drill stops kit

Removable and reusable drill stops for complete control of drilling depths.

**Caution:** drill stops are not compatible with optional 16 mm drill.



### > Drill stops



### > Stop on drill



### Long drills

References	Diameters	Drilling
KB30L6		6 mm
KB30L8		8 mm
KB30C6L10	Ø 3.0 mm	10 mm
KB30C8L12		12 mm
KB30C10L14		14 mm
KB36L6		6 mm
KB36L8		8 mm
KB36C6L10	Ø 3.6 mm	10 mm
KB36C8L12		12 mm
KB36C10L14		14 mm
KB42L6		6 mm
KB42L8		8 mm
KB42C6L10	Ø 4.2 mm	10 mm
KB42C8L12		12 mm
KB42C10L14		14 mm
KB48L6		6 mm
KB48L8		8 mm
KB48C6L10	Ø 4.8 mm	10 mm
KB48C8L12		12 mm
KB48C10L14		14 mm
KB54L6		6 mm
KB54L8		8 mm
KB54C6L10	Ø 5.4 mm	10 mm
KB54C8L12		12 mm
KB54C10L14		14 mm

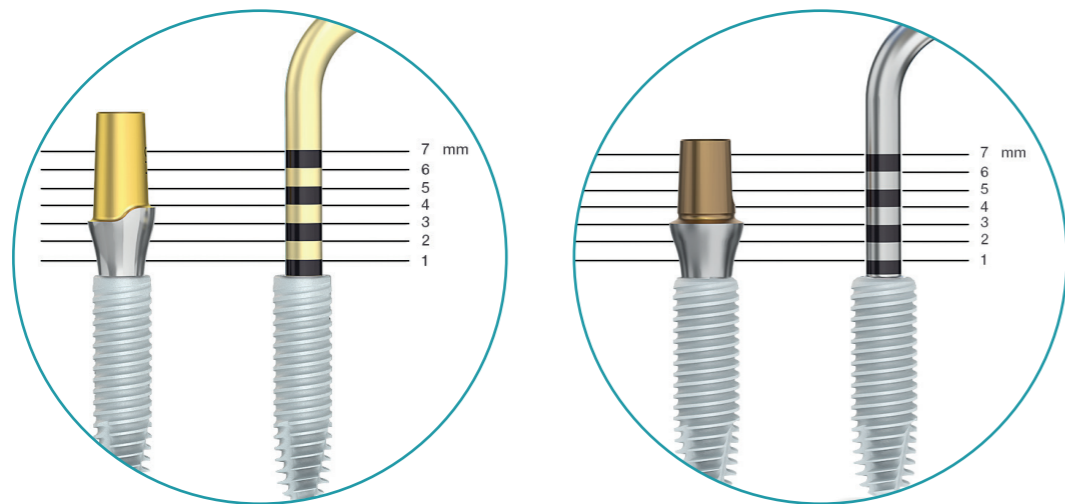
### Short drills

References	Diameters	Drilling
KB30C6L10		6 mm
KB30C8L12	Ø 3.0 mm	8 mm
KB30C10L14		10 mm
KB36C6L10		6 mm
KB36C8L12	Ø 3.6 mm	8 mm
KB36C10L14		10 mm
KB42C6L10		6 mm
KB42C8L12	Ø 4.2 mm	8 mm
KB42C10L14		10 mm
KB48C6L10		6 mm
KB48C8L12	Ø 4.8 mm	8 mm
KB48C10L14		10 mm
KB54C6L10		6 mm
KB54C8L12	Ø 5.4 mm	8 mm
KB54C10L14		10 mm

# 4. Periodontal tissue gauge / Healing screws

## > Periodontal tissue gauge

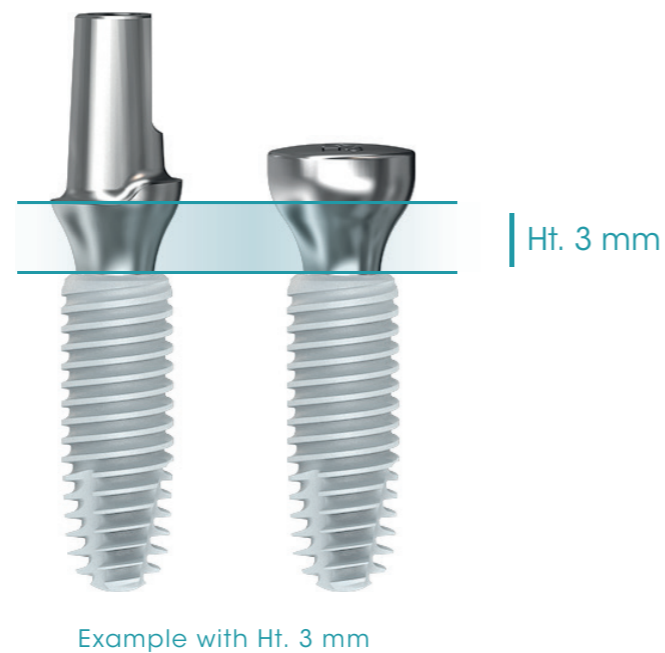
Reference	Designation
KJTP	Gauge for paro tissue



## > Healing screws

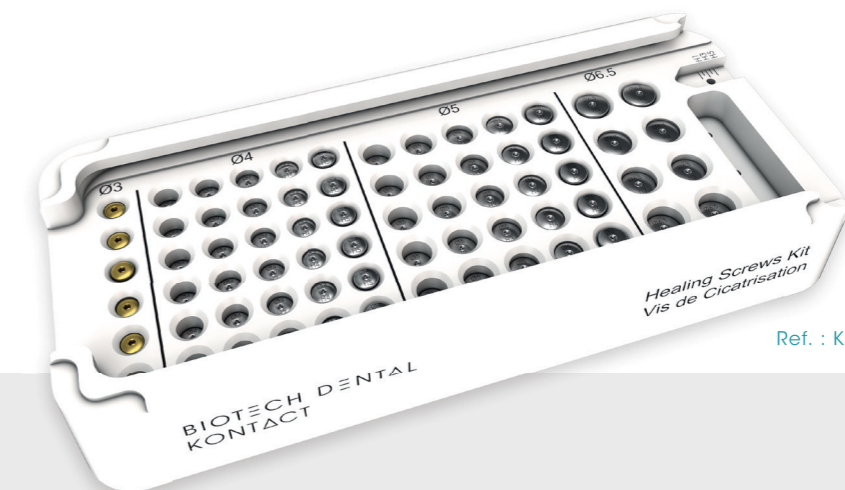
### Gingival height

**!**  
Thoroughly clean the inside of the implant before adding the healing screw.



Example with Ht. 3 mm

References	Designations	Diameters	Heights
K30VC	Healing screws	Ø 3.0 mm	1.5 mm
K30VC3			3 mm
K30VC4			4 mm
K30VC5			5 mm
KVC401			Healing screws
KVC402	2 mm		
KVC403	3 mm		
KVC404	4 mm		
KVC405	5 mm		
KVC501	Healing screws	Ø 5.0 mm	1 mm
KVC502			2 mm
KVC503			3 mm
KVC504			4 mm
KVC505			5 mm
KVC652	Healing screws	Ø 6.5 mm	2 mm
KVC653			3 mm
KVC654			4 mm
KVC655			5 mm

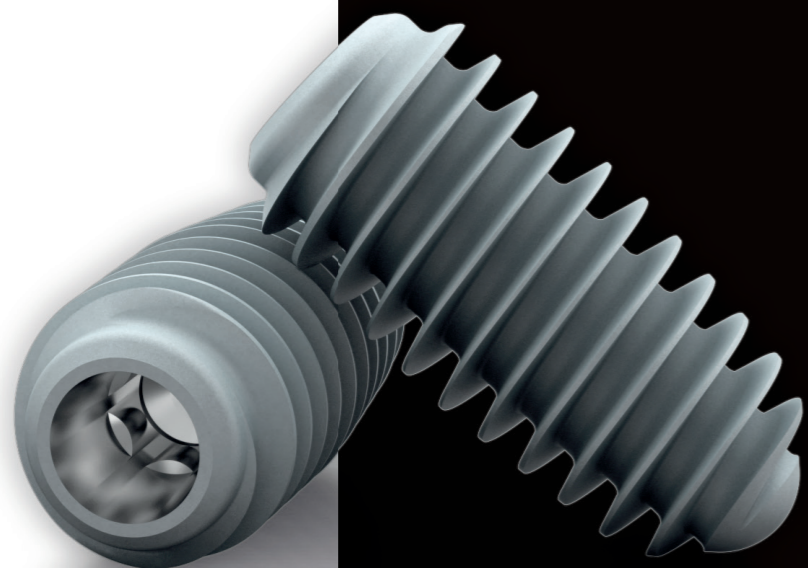


The healing screws should be tightened to a **maximum torque of 10 N.cm (recommended manual tightening).**



# 3

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