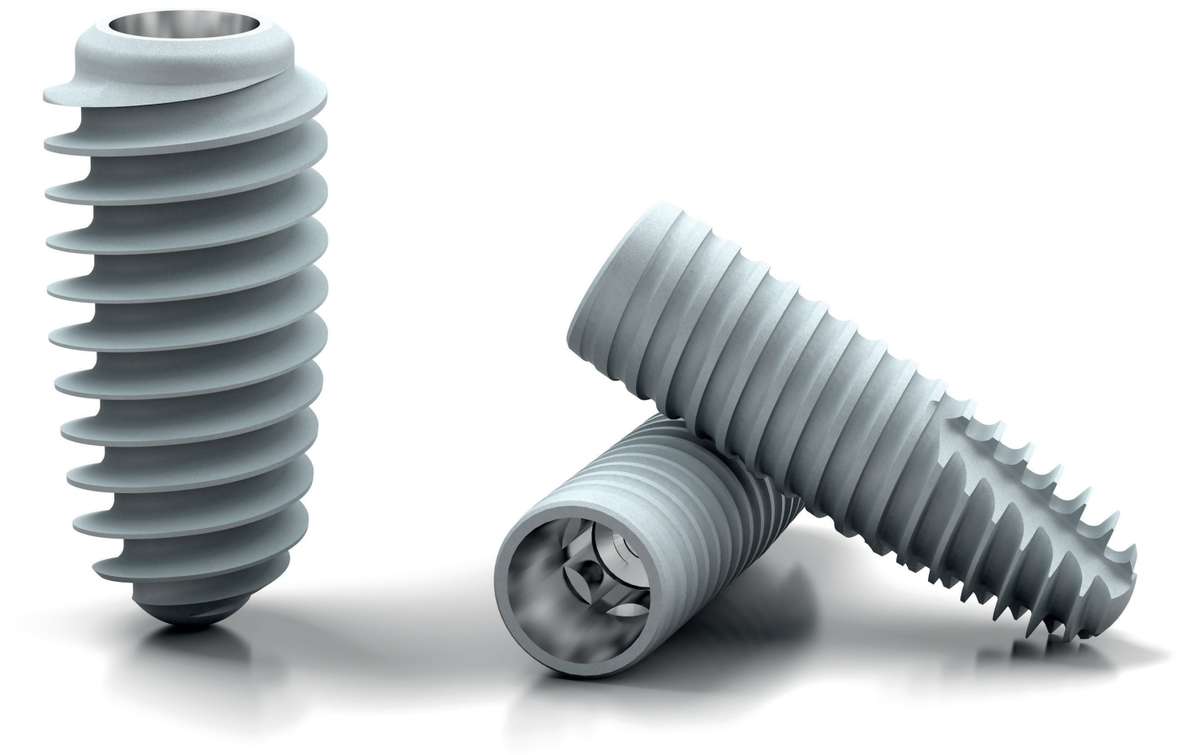
Kontact™ S/S+

KONTACT™ S & KONTACT™ S+
IMPLANTS

- USER MANUAL -

BIOTECH DENTAL



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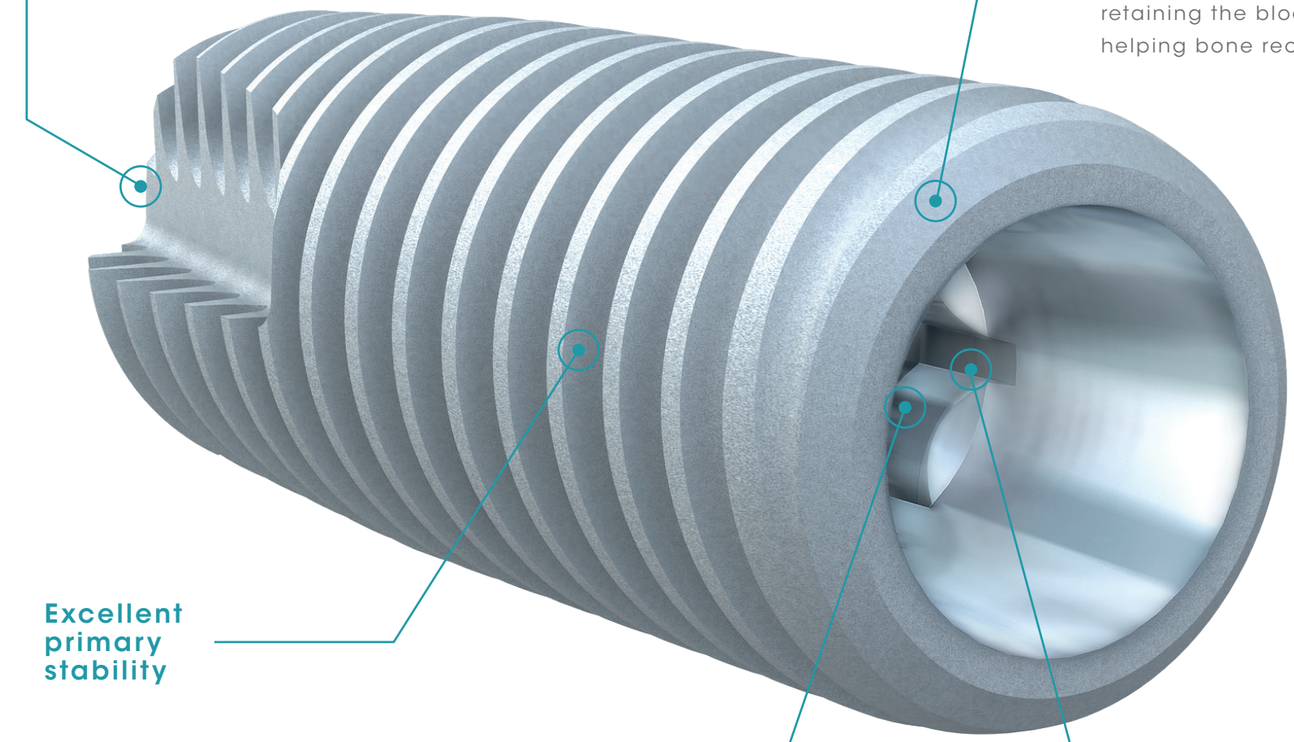
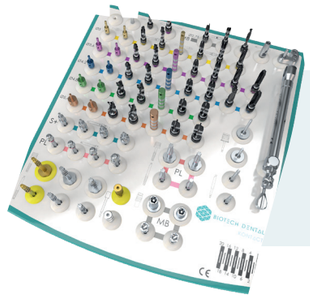
KONTACT™ S & KONTACT™ S+ IMPLANTS

1. Characteristics





SAME SURGERY AND PROSTHESIS KITS

KONTACT™ S implant

This implant is based on the same Kontact™ 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 Kontact™ S will therefore provides a "Softer" clinical alternative.

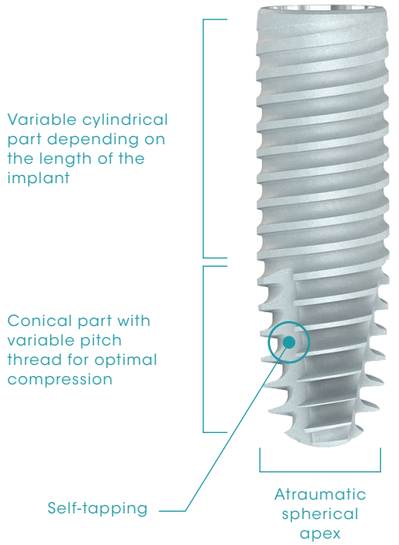
The benefits of the reduction in the insertion force (torque), due to the progressive threading are as follows:

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

STSystem® indexing

For implants of
Ø 3.6 - Ø 4.2 - Ø 4.8 and Ø 5.4 mm

Top view



KONTACT™ S⁺ implant

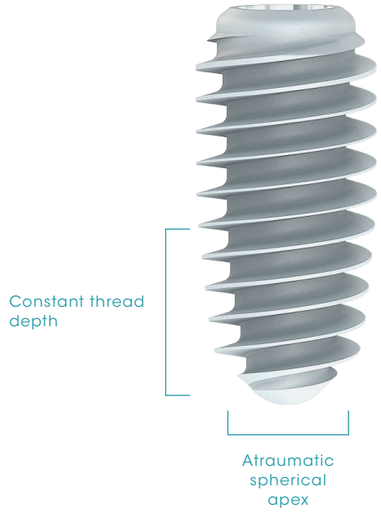
The alternate thread of the Kontact™ S⁺ implant, which is a development of the Kontact™ S, increases the primary grip; it is therefore particularly indicated in cases of post-extraction implantation and in the event of low-density bone.

With its connection system, which is identical to all the implants of the Kontact™ range, it is the ideal complement.

STSystem® indexing

For implants with external
Ø 4.0 - Ø 4.5 - Ø 5.0 and Ø 5.5 mm

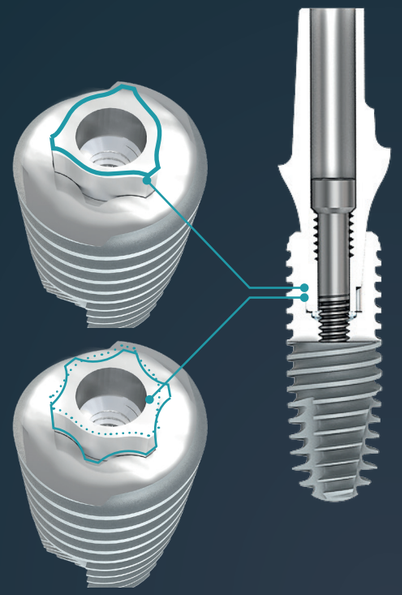
Top view



- ✔ Implants in **titanium Grade 4**: pure titanium
- ✔ Etched sandblasted surface treatment
- ✔ STSystem® patented connection system
- ✔ Drilling comfort
- ✔ Use of the same prosthetic kits and parts as the Kontact™ implant

2. Connexion system

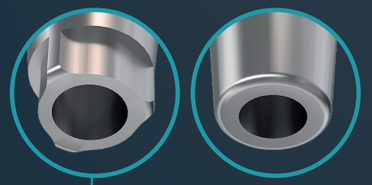
Common connection system between the Kontact™ S and the Kontact™ S+

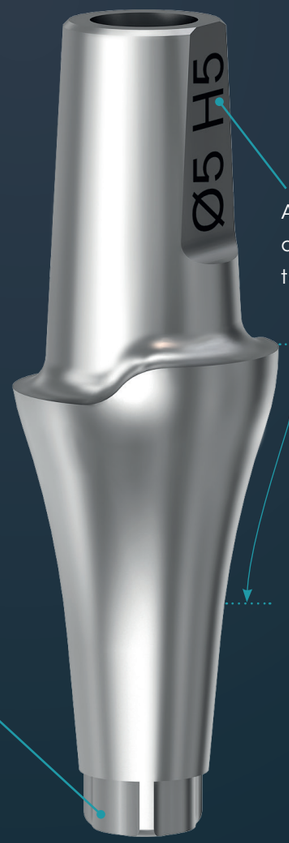


- Resistant assembly
- Tight sealed connection
- Easy insertion
- Fast and reliable to reposition

Kontact™ S and Kontact™ S+ implants are intended to fit prostheses from the Kontact™ 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.

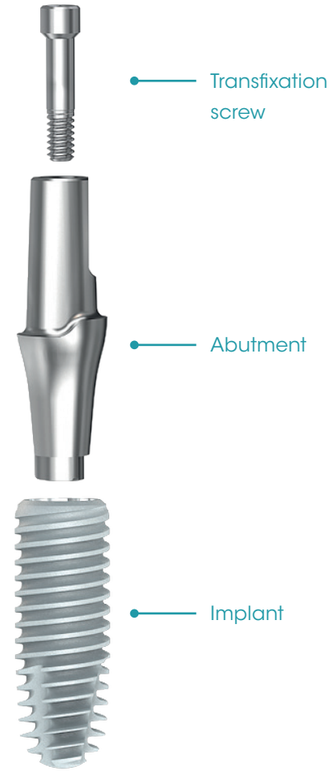
Mirror finish

SIX-THREE SYSTEM® CONNECTION (STSystem®)

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

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 Kontact™ implant, a study aimed at appraising the quality of the sealed connection between the prothetic 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 (Study N° 29J of 30/12/2013).

PLATFORM SWITCHING

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

Ø
3.0 mm

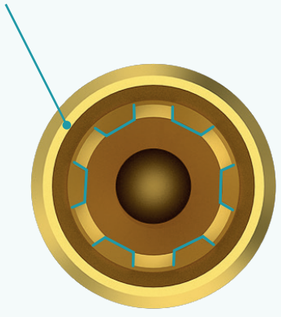
SPECIAL 3.0 MM DIAMETER*

Only concerns the Kontact™ 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

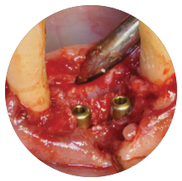
The Ø 3.0 mm implants
are reserved for small spaces.
They can be used to replace
mandibular incisors and maxillary
lateral incisors.

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

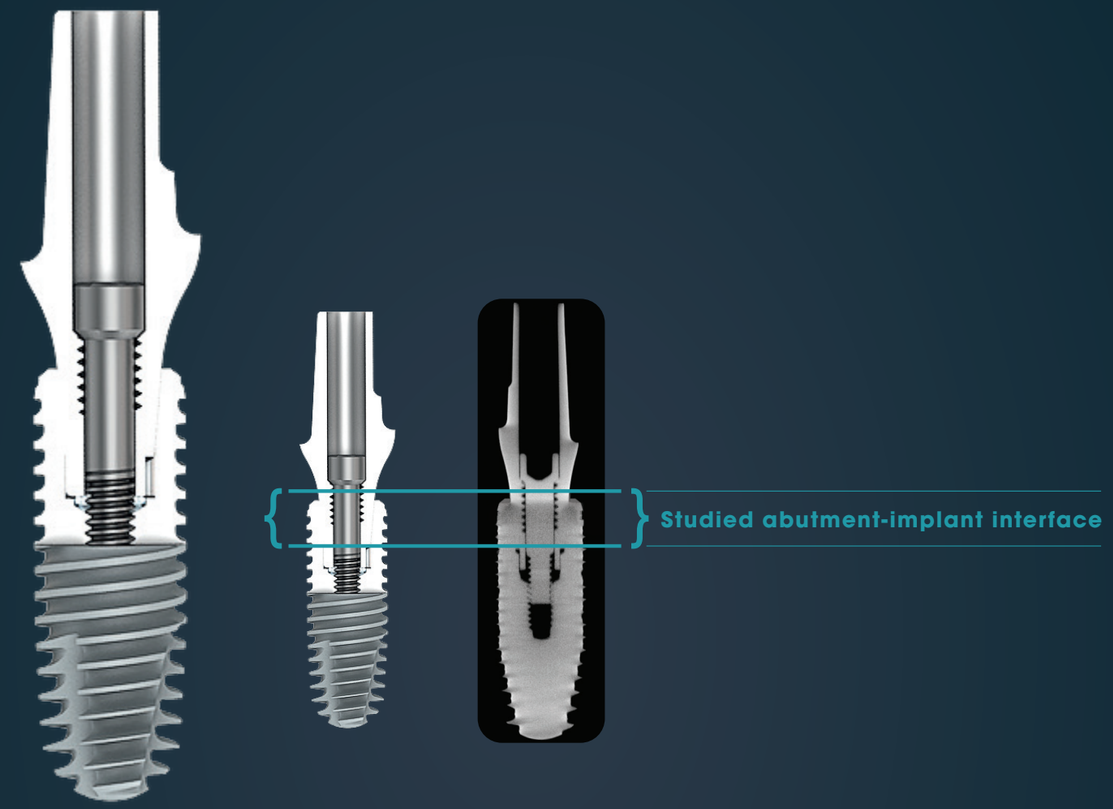
Clean the inside of the implant thoroughly before fitting the cover screw or healing screw.



*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 Kontact™ S
and the Kontact™ S+



ASSEMBLED DEVICE

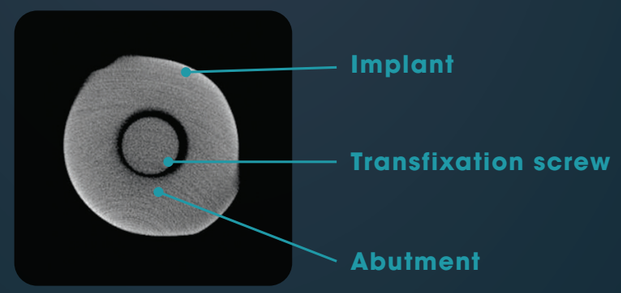
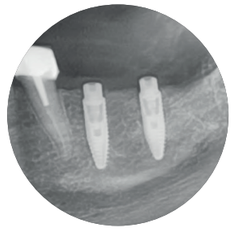


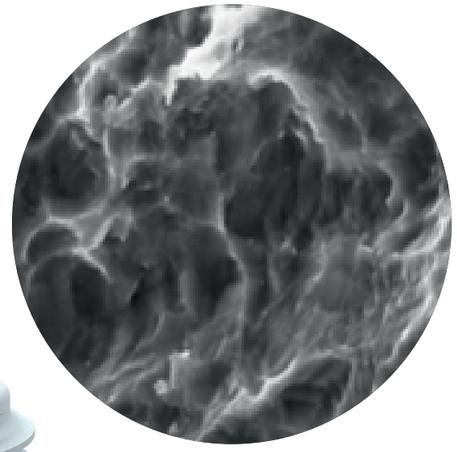
Illustration of the entire
circumference of the
abutment-implant connection.

4. Surface treatment

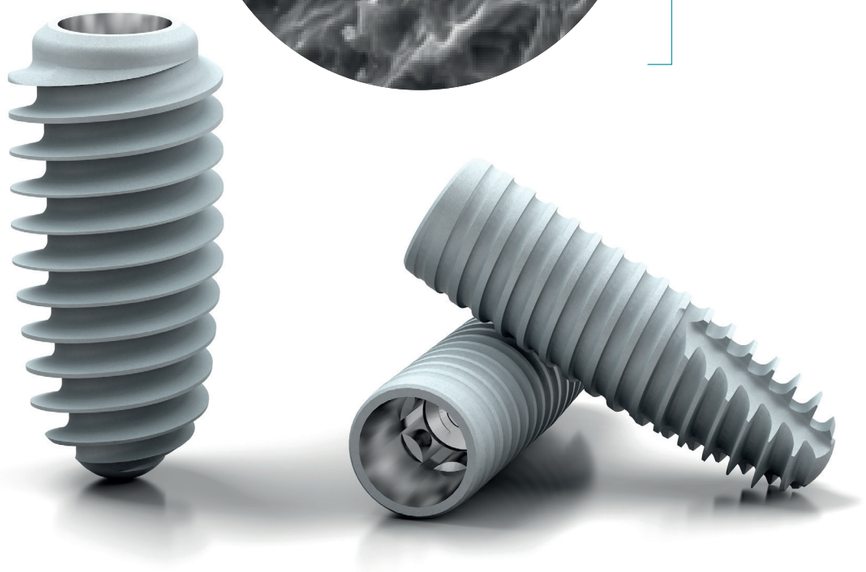
KONTACT™ S and KONTACT™ S+ in titanium Grade 4 with an etched sandblasted surface treatment.



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

REFERENCE EXAMPLE

Kontact™ S

K 36 12 S

- **K** — Kontact™
- **36** — External diameter 3.6 mm
- **12** — Length 12 mm
- **S** — Kontact™ S range

REFERENCE EXAMPLE

Kontact™ S+

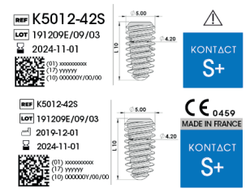
K 50 12 - 42 S

- **K** — Kontact™
- **50** — External diameter 5.0 mm
- **12** — Length 12 mm
- **42** — Body diameter 4.2 mm
- **S** — Kontact™ S+ range

1

Cardboard packaging, held closed with tamper-proof labels

2



Traceability label

3

Sealed blister pack containing the implant holder

-

2nd sterile barrier

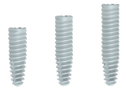
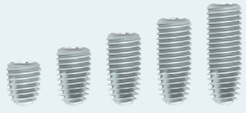
4

Implant holder with second cover

-

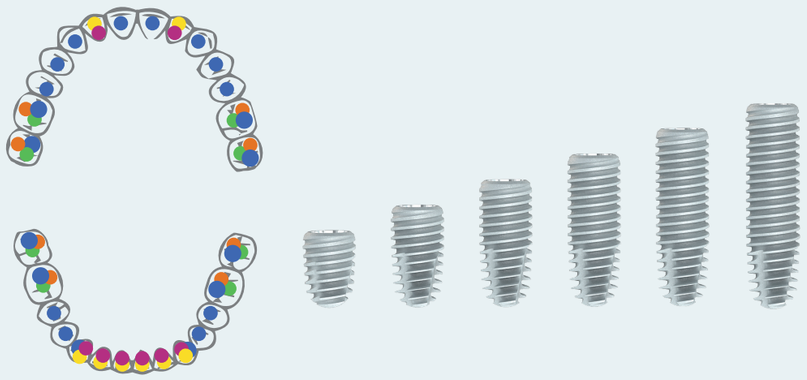
1st sterile barrier

6. Implants references

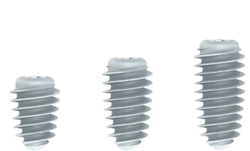
KONTACT™ S	References	Diameters	Lengths	Colors
	K3010S	Ø 3.0 mm	10 mm	
	K3012S		12 mm	
	K3014S		14 mm	
	K3608S	Ø 3.6 mm	8 mm	
	K3610S		10 mm	
	K3612S		12 mm	
	K3614S		14 mm	
	K3616S*		16 mm	
	K4206S	Ø 4.2 mm	6 mm	
	K4208S		8 mm	
	K4210S		10 mm	
	K4212S		12 mm	
	K4214S		14 mm	
	K4216S*		16 mm	
	K4806S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

Recommended implant diameters

- Ø 3.0 mm
- Ø 3.6 mm
- Ø 4.2 mm
- Ø 4.8 mm
- Ø 5.4 mm

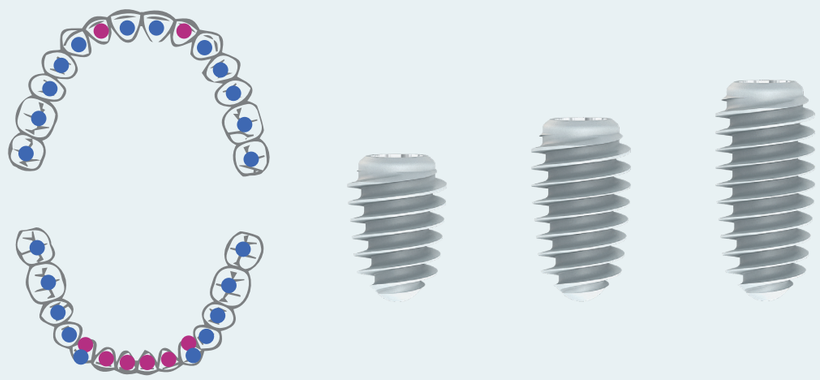


* 16 mm step drills and reamer drills are not supplied with the surgical kit but available upon request.

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

Recommended implant diameters

- Ø 3.6 mm
- Ø 4.2 mm



2

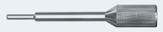
INSTRUMENTS

1. Surgical kit

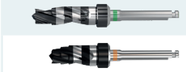
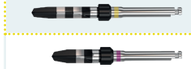
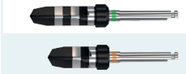
1. Drill extension
2. Drill bit for implant removal
3. Contra-angle screwdriver
4. Manual screwdriver / torque wrench key
5. Cortical drill for the Kontact™ S+
6. Marking drill Ø 1.5 mm
7. Pilot drills Ø 2,0 mm
8. Implant mountdrivers for contra-angle
9. Axial gauges
10. Step drills
11. Reamer drills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

Optional

14. Spacer parallelizer
15. Drilling depth gauges terminal
16. Step drills and reamer drills for 16 mm
17. Placement key for IsoPost

	References	Designations	Implants diameters	Lengths
	ESP	Spacer parallelizer		
	K30EX	Abutment extractors	Ø 3.0 mm	Short
	K30EXL			Long
	KEX	Abutment extractors	All Ø	Short
	KEXL			Long
	KEXV			
	1001SI	Marking drill Ø 1.5 mm		
	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 gauges	Ø 3.0 mm	
	KJA36		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	Colors
	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 Kontact™ S+	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.**

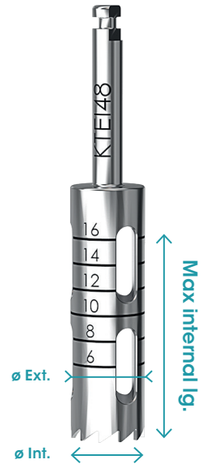
	References	Designations	Implants diameters	Lengths
	K30MPICA	Contra-angle chuck	Ø 3.0 mm	
	KMPICAC	Contra-angle chuck	All Ø	Short
	KMPICAL			Long
	KMPICAXL			Extra long
	K30MPI	Contra-angle chuck	Ø 3.0 mm	
	KMPIC	Manual chuck	All Ø	Short
	KMPIL			Long
	KMPIXL			Extra long
	TCAS	Contra-angle hexagonal screwdriver		Short
	TCA			Standard
	TCAL			Long
	1028	Drill extension		
	1032S	Manual hexagonal screwdrivers		Short
	1032			Standard
	1032L			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 Kontact™ S and Kontact™ 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 Kontact™ S and Kontact™ S+	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

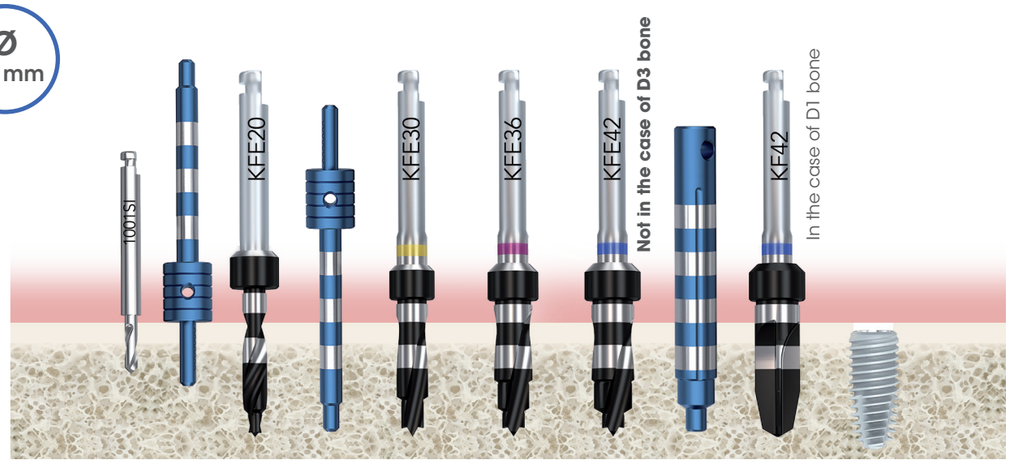
KONTACT™ S

RECOMMENDED

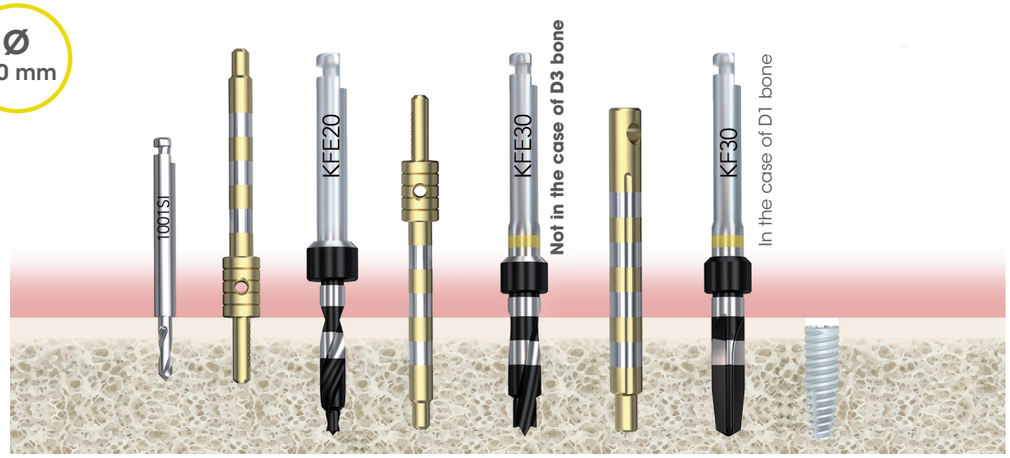
Implant placed at the **subcrestal level** (2 mm) in order to promote bone growth over the implant.

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

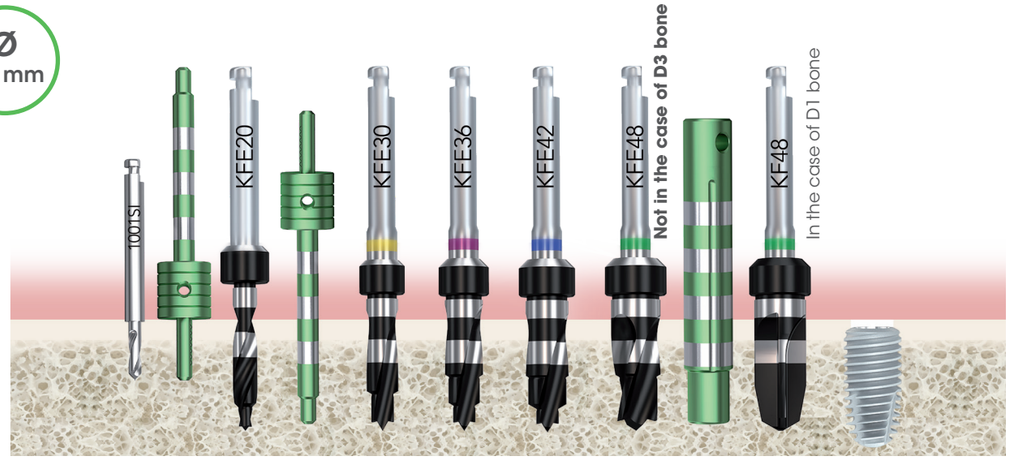
Ø 4.2 mm



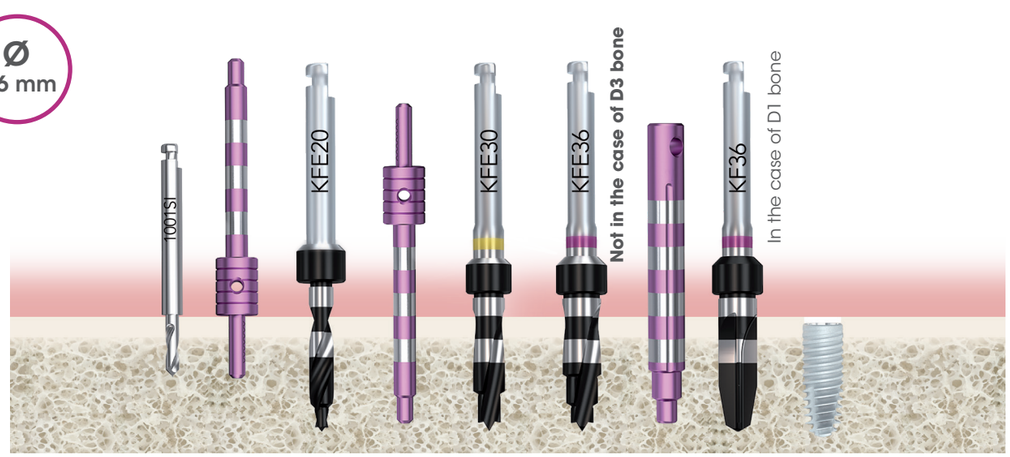
Ø 3.0 mm



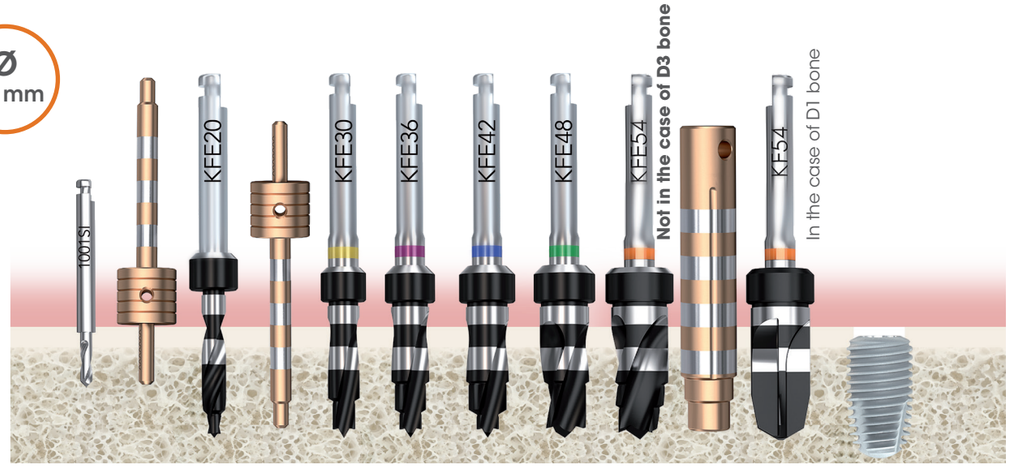
Ø 4.8 mm



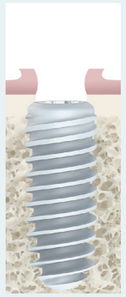
Ø 3.6 mm



Ø 5.4 mm



KONTACT™ S+



RECOMMENDED

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

- In case of a type D4 bone, use the widest possible external diameter, or an undersized drill. Do not under-drill in depth.
- Cortical drills are to be used just before insertion of the implant if the cortical bone is dense. They can also be used after the pilot drill in order to visualise the external diameter of the implant.

RECOMMENDED

- External diameters 5.0 and 5.5 mm recommended in case of D4 bone.

Ø External 5.0 mm

Ø External 5.5 mm

Ø 3.6 mm

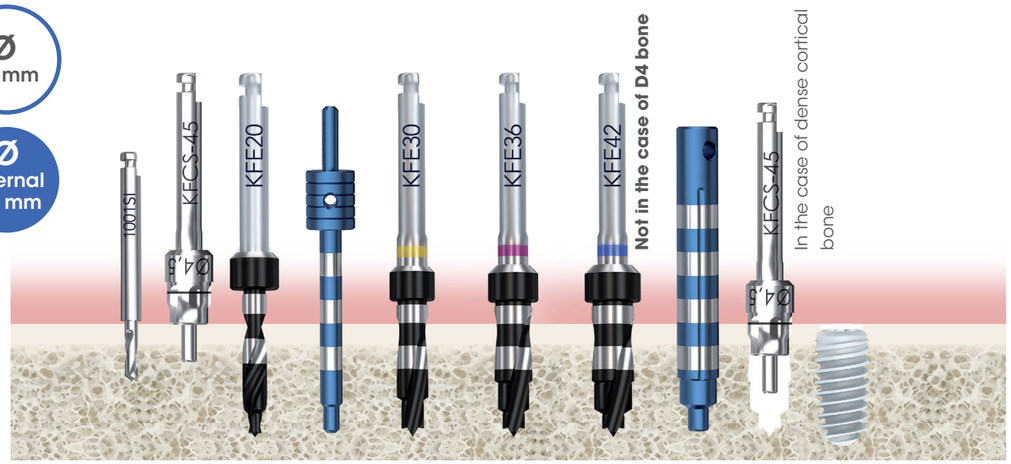
Ø External 4.0 mm

Ø 4.2 mm

Ø External 5.0 mm

Ø 4.2 mm

Ø External 4.5 mm



Ø 4.2 mm

Ø External 5.5 mm

Recommended drilling protocol based on bone density

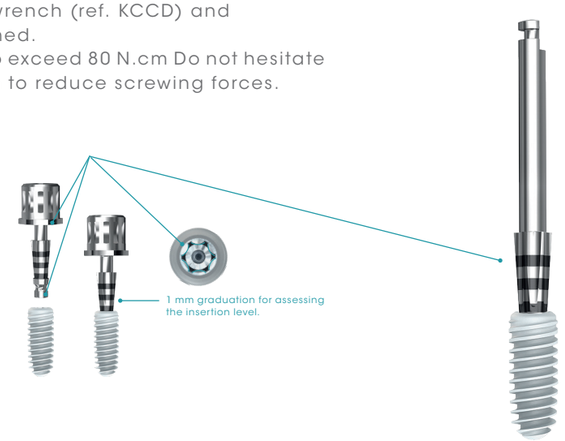
Types of bones	Kontact™ S protocols	Kontact™ S+ protocols
D1	Standard protocol with reamer.	Preferably use the Kontact™ S.
D2	Standard protocol.	Preferably use the Kontact™ S.
D3	**Use an undersized drill.** One diameter smaller.	Standard protocol. If the cortical bone is hard, use cortical drills.
D4	Preferably use the Kontact™ S+.	**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.** 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/min
Reamer	200 rpm/min
Drill / bur	200 rpm/min
Implant	15 rpm/min

Insertion of the implant

Implant screwing mandrels are available in a manual version and version for contra-angle.
There are three lengths for the standard diameter mandrels (ref. KMPI, KMPIL, KMPIXL or KMPICA, KMPICAL, KMPICAXL respectively) plus a screwdriver specific to implant with a diameter of 3 mm (ref. K30MPI and K30MPICA). There is a tracking of the implant connector for proper orientation of the implant as well as a line of laser tape to assess the inser tion depth of the implant.
With the manual implant driver:
Manually pre-tighten the implant into the implant shaf t using implants screwdriver.
Assemble the implant screwdriver with the torque wrench (ref. KCCD) and tighten it clockwise until the desired depth is reached.
Regularly check the tightening torque in order not to exceed 80 N.cm Do not hesitate to unscrew and re-screw during implant 's insertion to reduce screwing forces.

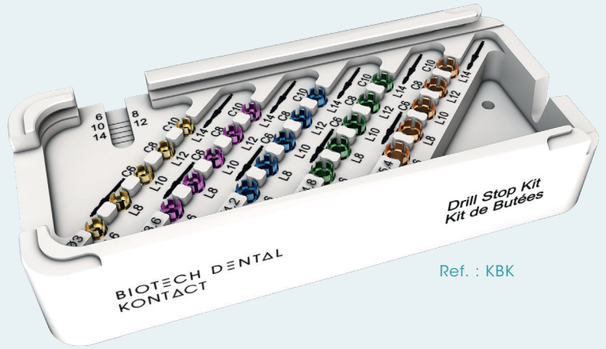


3. Drill stop kit

Drill stop kit

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

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



Ref. : KBK

Drill stops

Stop on drill

Long drills

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

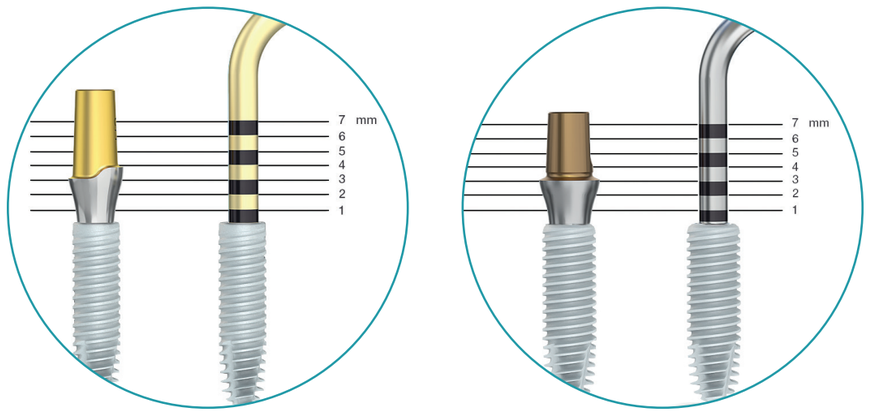
Short drills

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

4. Periodontal tissue gauge / healing screws

Periodontal tissue gauge

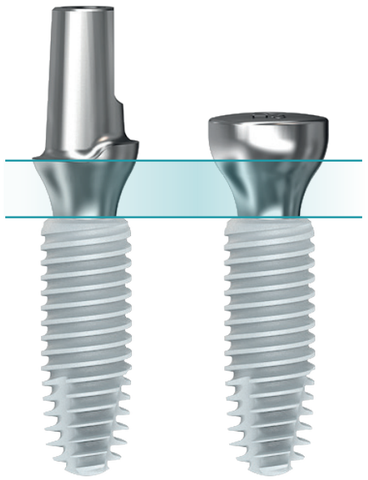
	Reference	Designation
	KJTP	Gauge for paro tissue



Healing screws

Gingival height

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



Ht. 3 mm

Example with Ht. 3 mm

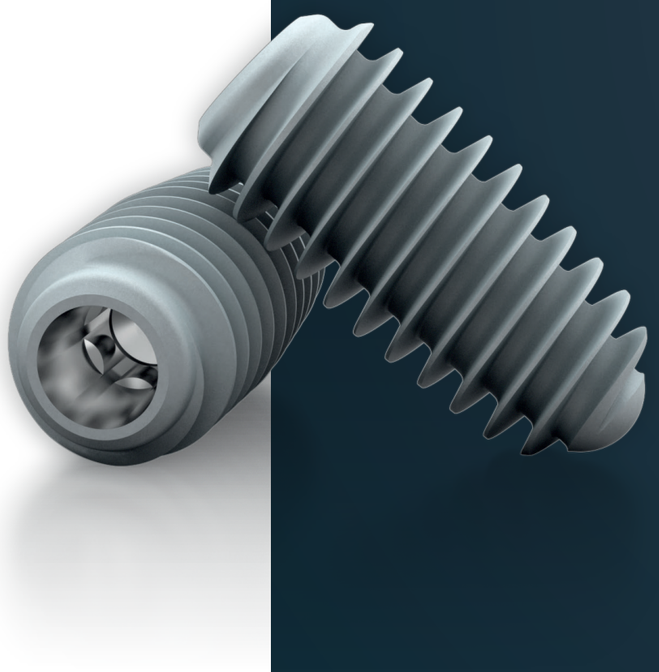
	References	Designations	Diameters	Heights
	K30VC	Healing screws	Ø 3.0 mm	1.5 mm
	K30VC3			3 mm
	K30VC4			4 mm
	K30VC5			5 mm
	KVC401	Healing screws	Ø 4.0 mm	1 mm
	KVC402			2 mm
	KVC403			3 mm
	KVC404			4 mm
	KVC405			5 mm
	KVC501	Healing screws	Ø 5.0 mm	1 mm
	KVC502			2 mm
	KVC503			3 mm
	KVC504			4 mm
	KVC505			5 mm
	KVC652	Healing screws	Ø 6.5 mm	2 mm
	KVC653			3 mm
	KVC654			4 mm
	KVC655			5 mm

Ref. : KVCK

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

3

GENERAL INFORMATION



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