

SYSTEM APPLICATION

Single-piece implants

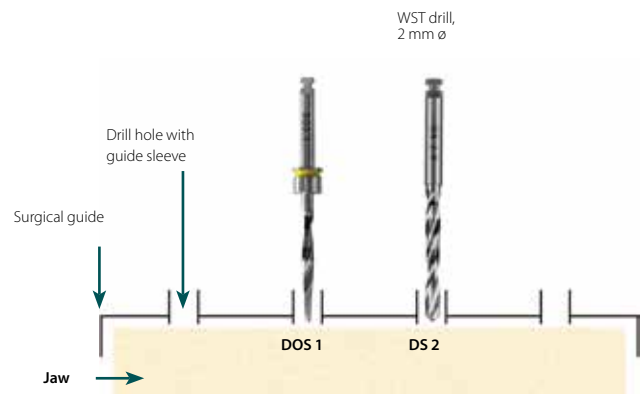


IMMEDIATE LOADING DENTAL IMPLANT SYSTEM

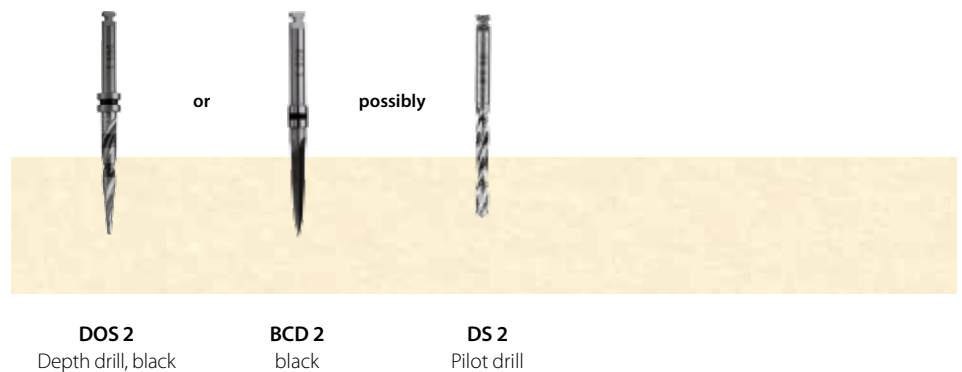
 **SIMPLADENT®**

PRELIMINARIES

1. Have your laboratory produce a drilling template with the appropriate drill holes for the marker bore. Use a **DOS 1** or **BCD 1** (yellow) drill for pre-drilling. Use the shaping drill to the implant bed to full length. Use an intermittent drilling technique and copious saline irrigation.
2. The laboratory might insert guide sleeves (BFH) into the drill holes to ensure that the drilling angle is exactly correct.
3. In hard bone, if the full drilling depth is difficult to attain with **DOS 1**, use the **DS 2** cylinder drill (2 mm) to achieve the correct depth.



1. DRILLING AND PREPARING/CONDENSING THE IMPLANT BED



DOS 2 / BCD 2

Determine the correct direction and depth; alternatively, use **BCD 1** "pathfinder" drill.

DS 2 pilot drill

Use for hard bone, but only in the cortical area.

2. IMPLANT PACKAGING



Original packaging



Remove the barcode label and place it in the patient file



The open pack contains the implant in a sterile tube (primary packaging).

All KOC® implants are used as compression screws. In order to achieve a good bone condensation and implant stability, the drilling should be carried out thinner than the core diameter of the implant. The minimal diameter of the drill depends on the bone density. It is therefore not possible to advise drill-sequences which fit all bone-qualities. Typically in the soft maxillary bone only small drill-diameters are used (e.g. the usage of DOS1 only, for implants with 3.0 - 5.0 mm diameter), whereas in the highly mineralized lower jaw a specific drill sequence with respect to the mineralisation of the bone is necessary.

3. REMOVE THE IMPLANT FROM ITS PACKAGING

1. Open the lid.
2. The implant is fixed to the lid by a break joint.
3. Remove the implant without touching the inner wall of the tube.

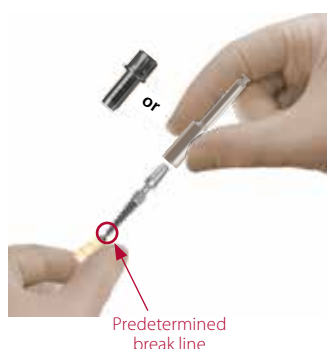


4. HANDLING

Hold implant at the carrier, and place the placement aid on the implant head. Do not touch the rough endosseous implant surface at all. Remove the implant completely with the plug of the container, and later remove the plug at the break area.

IMPLANTS WITH LARGE HEAD

KOC® / KOC® Micro



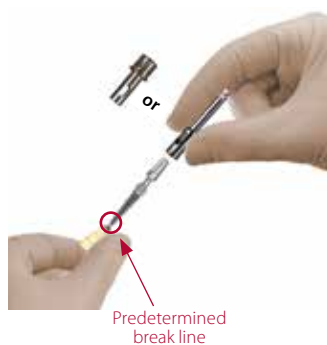
KOC® implants with **IT2W** placement aid (for angled hand-piece) and **IT2 BCS** (manual)



Removing the holder

IMPLANTS WITH SMALL HEAD

KOC®



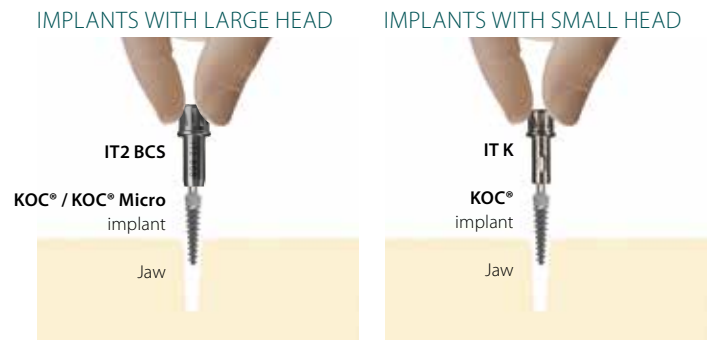
KOC® implants with **ITW K** placement aid (for angled hand-piece) and **IT K** (manual)



Removing the holder

5. INSERTION USING MANUAL TOOLS

Manually insert the implant into the jaw until it is seated firmly.



6. DEFINITIVE IMPLANT INSERTION

Use the ratchet, torque wrench or angled handpiece to screw the implant clockwise into the implant bed. The roughened endosseous aspect of the implant must be completely submerged in the bone. The polished implant head must be at the level of the mucosa. For KOC, KOC Micro and BECES ex, TPG Uno and BECES N: It is recommended to screw the implant so deep into the bone that 1 mm of the thin & polished implant shaft (above the thicker, endosseous area) is below the level of the 1st cortical.

IMPLANTS WITH LARGE HEAD

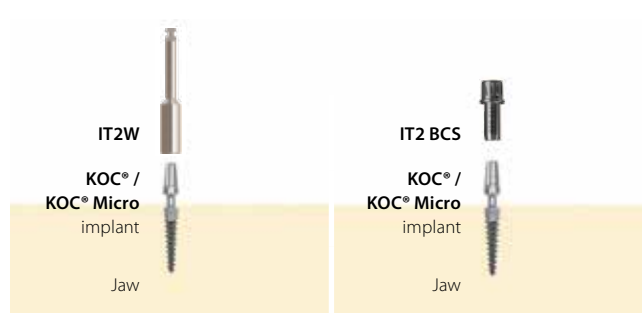


IMPLANTS WITH SMALL HEAD

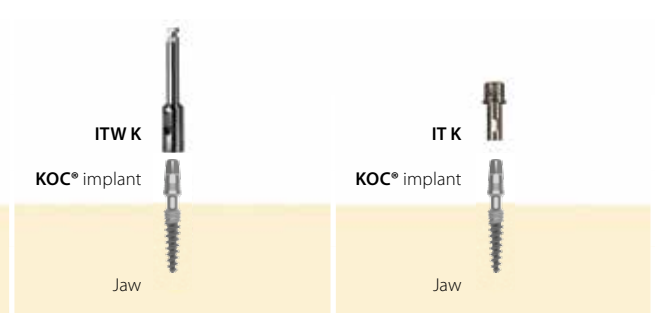


7. REMOVING THE PLACEMENT AID FROM THE IMPLANT

IMPLANTS WITH LARGE HEAD



IMPLANTS WITH SMALL HEAD



8. RESULT

- All implant heads can be modified in shape using redary instruments.
- The implants can be immediately loaded prosthodontically if a suitable indication exists.
- The definitive superstructure must be cemented within the next few days.
- Immediate prosthetic splinting using a provisional bridge is recommended.

IMPLANTS WITH LARGE HEAD IMPLANTS WITH SMALL HEAD



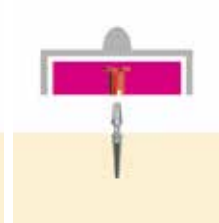
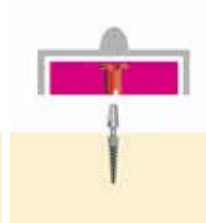
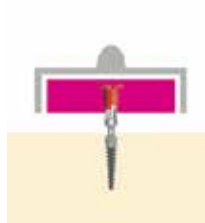
9. IMPRESSION

IMPLANTS WITH LARGE HEAD

Bridges



Alternatively, the impression can also be taken directly for **KOC®** without **TSPA 5**.

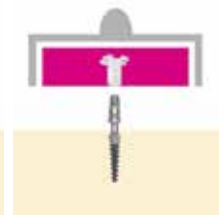
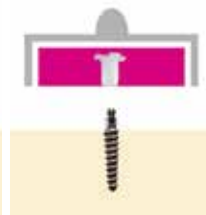
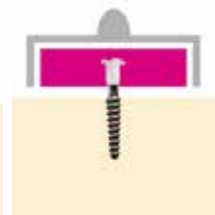


Slipping on the **TSPA 5** impression post, internally round, for **KOC®**

Slipping on the **TSPA 5** impression post, anti-rotation, for **KOC® Micro**

Impression taking e.g. with **Safeprint®**

Remove the individual tray from the implant. The impression contains the impression post at this stage. Forward the impression to the laboratory.



Impression taking with **Safeprint®**

Remove the individual tray from the implant. The impression contains the impression post at this stage. Forward the impression to the laboratory.

IMPLANTS WITH SMALL HEAD

Bridges



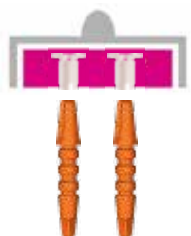

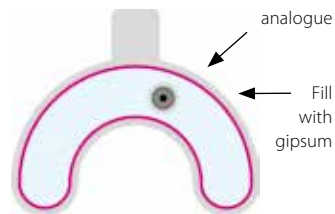



Alternatively, the impression can also be taken directly for **KOC®** without **TSPA 4/TSKPA 4**.

Slipping on the **TSPA 4** impression post, internally round, for **KOC®**

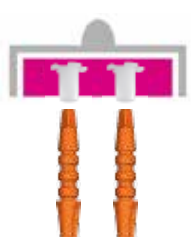

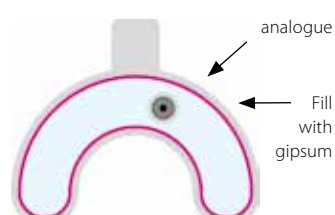



LABORATORY PROCEDURES

Slipping the impression post onto lab analogues

IMPLANTS WITH LARGE HEAD

<p>Bridges</p> 	<p>Prostheses</p> 	<p>Create a plaster cast</p>  <p>analogue Fill with gypsum</p>
<p>TSPA 5 on IAK M/13-462111</p>  <p>POB</p>	<p>TSPA 5 on IAK</p>  <p>TPB B</p>	<p>Remove the impression from the cast. The impression post and lab analogue are now separated again.</p>  <p>IAK with nylon cap (pink) and sleeve</p>
<p>IAK M/13-462111</p> <p>Wax up on PO4 pre-shaped castings (internally round; for bridges and bar connectors) or PO4A pre-shaped castings (with internal edges).</p>	<p>13-462111</p>	<p>Integration (polymerization) of the H sleeve into the denture. NC/NC1/NC2 are pressed into the sleeve. For the first restoration, NC1 or NC2 should be preferred.</p>

IMPLANTS WITH SMALL HEAD

<p>Bridges</p> 	<p>Prostheses</p> 	<p>Create a plaster cast</p>  <p>analogue Fill with gypsum</p>
<p>TSPA 4 on IAK M/13-462111</p>  <p>PO4</p>	<p>TSPA 4 on IAK</p>  <p>PO4 A</p>	<p>Remove the impression from the cast. The impression post and lab analogue are now separated again.</p>  <p>IAK with nylon cap (pink) and sleeve</p>
<p>IAK M/13-462111</p> <p>Wax up on PO4 pre-shaped castings (internally round; for bridges and bar connectors) or PO4A pre-shaped castings (with internal edges).</p>	<p>13-462111</p>	<p>Integration (polymerization) of the H sleeve into the denture. NC/NC1/NC2 are pressed into the sleeve. For the first restoration, NC1 or NC2 should be preferred.</p>

KOC® IMPLANTS

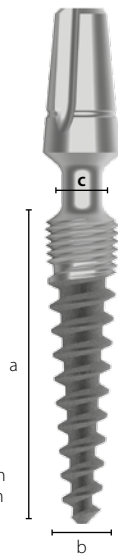


The **KOC®** implant system is made of the highly fracture-resistant Ti6Al4V ELI titanium alloy pursuant to ASTM F 136-13 and ISO 5832-3. The implants are single-piece implants with an apical compression thread and straight, flexible or angled solid abutment. Suitable for crowns, bridges and bar connectors. The compression screw design facilitates immediate prosthetic loading, provided surgical placement was carried out correctly (restoration placed within three days or less). **KOC®** implants are today routinely used for immediately loaded bridge structures. The single-piece design saves expense and time and minimises the problem of screw loosening. **KOC®** and **BECES®** are combined in cases of extraction.

KOC® MICRO IMPLANTS

The head of the implant is prepared for the connection with two stacked titan wires of 1.5 mm Ø each by intra-oral welding.

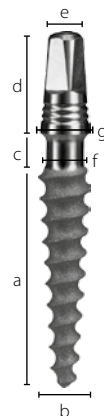
- a) endosseous length: 6 - 15 mm
b) max. endosseous Ø small head: 3.3 mm
max. endosseous Ø large head: 3.9 mm
c) neck Ø: 2.3 - 2.8 mm
Material: Ti6Al4V ELI



Description	Endoss. Ø	Length	Head	Neck Ø	Drill **	REF	Price cat.
KOC Micro 3.0 10*	3.0 mm	10 mm	small	2.3 mm	DOS 1 or BCD 1	13-455900	F
KOC Micro 3.0 12*	3.0 mm	12 mm	small	2.3 mm	DOS 1 or BCD 1	13-455901	F
KOC Micro 3.2 12*	3.2 mm	12 mm	small	2.3 mm	DOS 1 or BCD 1	13-455905	F
KOC Micro 3.2 15*	3.2 mm	15 mm	small	2.3 mm	DOS 1 or BCD 1	13-455906	F
KOC Micro 3.7 6	3.7 mm	6 mm	large	2.5 mm	DOS 2 or BCD 2	13-455910	F
KOC Micro 3.7 8	3.7 mm	8 mm	large	2.5 mm	DOS 2 or BCD 2	13-455911	F
KOC Micro 3.7 10	3.7 mm	10 mm	large	2.5 mm	DOS 2 or BCD 2	13-455912	F
KOC Micro 3.7 12	3.7 mm	12 mm	large	2.5 mm	DOS 2 or BCD 2	13-455913	F
KOC Micro 3.7 15	3.7 mm	15 mm	large	2.5 mm	DOS 2 or BCD 2	13-455914	F
KOC Micro 4.1 8	4.1 mm	8 mm	large	2.8 mm	DOS 3 or BCD 3	13-455920	F
KOC Micro 4.1 10	4.1 mm	10 mm	large	2.8 mm	DOS 3 or BCD 3	13-455921	F
KOC Micro 4.1 12	4.1 mm	12 mm	large	2.8 mm	DOS 3 or BCD 3	13-455922	F
KOC Micro 4.1 15	4.1 mm	15 mm	large	2.8 mm	DOS 3 or BCD 3	13-455923	F
KOC Micro 5 10	5 mm	10 mm	large	2.8 mm	DOS 5	13-455925	F
KOC Micro 5 12	5 mm	12 mm	large	2.8 mm	DOS 5	13-455926	F

KOC® CLASSIC IMPLANTS

- a) Endosseous length: 8 - 19 mm
b) Endoss. Ø: 3.0 / 3.2 / 3.7 / 4.1 / 5.0 mm
c) Neck length: 3 mm
d) Abutment length: 6.8 mm
e) Box wrench size: 1.9 mm
f) Neck Ø: 2.0 / 2.5 / 2.8 mm
g) Abutment Ø: 3.35 mm

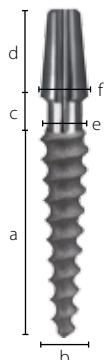


Description	Code KDS	Endoss. Ø	Length	Neck Ø	REF	Price cat.
KOC 3.0 10	A	3.0 mm	10 mm	2 mm	13-455108	F
KOC 3.0 12	B	3.0 mm	12 mm	2 mm	13-455109	F
KOC 3.0 15	C	3.0 mm	15 mm	2 mm	13-455110	F
KOC 3.2 12	D	3.2 mm	12 mm	2 mm	13-455111	F
KOC 3.2 15	E	3.2 mm	15 mm	2 mm	13-455112	F
KOC 3.7 6		3.7 mm	6 mm	2.5 mm	13-455106	F
KOC 3.7 8		3.7 mm	8 mm	2.5 mm	13-455107	F
KOC 3.7 10		3.7 mm	10 mm	2.5 mm	13-455114	F
KOC 3.7 12	F	3.7 mm	12 mm	2.5 mm	13-455115	F
KOC 3.7 15	G	3.7 mm	15 mm	2.5 mm	13-455120	F

KOC® X IMPLANTS

KOC® X implants provide the same prosthetic platform (cementing head) as BECES 3.6 mmd, BECES 4.6 mmd and larger.

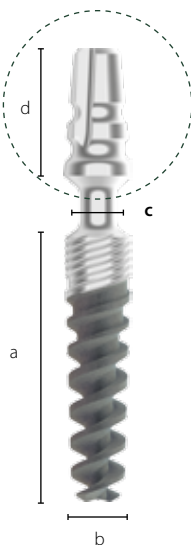
- a) Endosseous length: 8 - 15 mm
b) Endosseous Ø: 3.0 / 3.2 / 3.7 / 4.1 / 5 mm
c) Neck length: 3 mm
d) Abutment length: 7.2 mm
e) Neck Ø: 2.0 / 2.5 / 2.8 mm
f) Ø Abutment: 3.9 mm



Description	Code KDS	Endoss. Ø	Length	Neck Ø	REF	Price cat.
KOC X 3.0 10	A	3.0 mm	10 mm	2 mm	13-455700	F
KOC X 3.0 12	B	3.0 mm	12 mm	2 mm	13-455701	F
KOC X 3.0 15	C	3.0 mm	15 mm	2 mm	13-455702	F
KOC X 3.2 12	D	3.2 mm	12 mm	2 mm	13-455710	F
KOC X 3.2 15	E	3.2 mm	15 mm	2 mm	13-455711	F
KOC X 3.7 10		3.7 mm	10 mm	2.5 mm	13-455720	F
KOC X 3.7 12	F	3.7 mm	12 mm	2.5 mm	13-455721	F
KOC X 3.7 15	G	3.7 mm	15 mm	2.5 mm	13-455722	F
KOC X 4.1 8	H	4.1 mm	8 mm	2.8 mm	13-455730	F
KOC X 4.1 10	I	4.1 mm	10 mm	2.8 mm	13-455731	F
KOC X 4.1 12	L	4.1 mm	12 mm	2.8 mm	13-455732	F
KOC X 4.1 15	M	4.1 mm	15 mm	2.8 mm	13-455733	F
KOC X 4.1 17	M	4.1 mm	17 mm	2.8 mm	13-455734	F
KOC X 4.1 19	N	4.1 mm	19 mm	2.8 mm	13-455735	F
KOC X 5 10	O	5 mm	10 mm	2.8 mm	13-455740	F
KOC X 5 12	P	5 mm	12 mm	2.8 mm	13-455741	F
KOC X 5 15		5 mm	15 mm	2.8 mm	13-455742	F

KOC® MICRO D IMPLANTS WITH LARGE HEAD

KOC® Micro with self-tapping double thread.



- a) endosseous length: 6 - 15 mm
 b) max. endosseous Ø large head: 3.9 mm
 c) neck Ø: 2.0 mm
 d) height of head: 7.2 mm
 Material: Ti6Al4V ELI

Description	Endoss. Ø	Length	Neck Ø	Drill *	REF	Price cat.
KOC MicroD 3.7 6	3.7 mm	6 mm	2.3 mm	DOS 2 / BCD 2	13-455950	G
KOC MicroD 3.7 8	3.7 mm	8 mm	2.3 mm	DOS 2 / BCD 2	13-455951	G
KOC MicroD 3.7 10	3.7 mm	10 mm	2.3 mm	DOS 2 / BCD 2	13-455952	G
KOC MicroD 3.7 12	3.7 mm	12 mm	2.3 mm	DOS 2 / BCD 2	13-455953	G
KOC MicroD 3.7 15	3.7 mm	15 mm	2.5 mm	DOS 2 / BCD 2	13-455954	G
KOC MicroD 4.1 8	4.1 mm	8 mm	2.5 mm	DOS 3 / BCD 3	13-455957	G
KOC MicroD 4.1 10	4.1 mm	10 mm	2.5 mm	DOS 3 / BCD 3	13-455958	G
KOC MicroD 4.1 12	4.1 mm	12 mm	2.5 mm	DOS 3 / BCD 3	13-455959	G
KOC MicroD 4.1 15	4.1 mm	15 mm	2.5 mm	DOS 3 / BCD 3	13-455960	G
KOC MicroD 5 10	5 mm	10 mm	2.8 mm	DOS 5	13-455963	G
KOC MicroD 5 12	5 mm	12 mm	2.8 mm	DOS 5	13-455964	G

Max. insertion torque for KOC® Micro implants is 80 Ncm.

* In very hard bone, it may be additionally necessary to make a cylindrical hole with a twist Drill 2.5 mm to a depth of 2.5 mm.

KOC® Micro D implants are delivered incl. lab-set consisting of REF 462111, 462136 and 462086



TEMPBASE® TEMPORARY BASE

All **KOS®** Implants are used as compression screws. In order to achieve a good bone condensation and implant stability, the drilling should be carried out thinner than the core diameter of the implant. The minimal diameter of the drill depends on the bone density. It is therefore not possible to advise drill-sequences which fit all bone qualities. Typically in the soft maxillary bone only small drill-diameters are used (e.g. the usage of DOS1 only, for implants with 3.0 - 5.0 mm diameter), whereas in the highly mineralized lower jaw a specific drill sequence with respect to the mineralisation of the bone is necessary.



Description	REF	Price cat.
TPB K - temporary base, PEEK (for small head)	13-455261	C
TPB B - temporary base, PEEK (for large head)	13-462026	C

Temporary prosthesis base with internal and external grooves. Can be directly snapped on to the head of a **KOC®** implant and if necessary secured with a little provisional cement. Is polymerized directly into the long term temporary bridge. Intended service life 6 month.

ADAPTERS FOR CEMENTATION (Ti6AL4V)

These adapters are placed on KOC® implants to compensate for diverging paths of insertion. Resin cements are preferred. The implant head should be roughened first. Protruding parts of the head are subsequently removed. A direct impression is taken on the adapter.



AA15 KK

Description	Height H	REF	Price cat.
AA15 KK Adapter, 15°	7.5	13-462036	C
AA25 KK Adapter, 25°	7.8	13-462046	C



AA5 15°



AA5 25°

Description	REF	Price cat.
AA5 15° Adapter short, for large head	13-462052	C
AA5 25° Adapter short, for large head	13-462053	C



CAUTERISABLE



These adapters are used by the dental technician for creating bridge framework wax-ups. Protruding head material is removed by the dentist at the framework try-in.

Description	Height H	REF	Price cat.
AAL 15 KK Adapter, 5 pieces, reducible	7.5	13-462045	E

LAB ANALOGUE FOR ANGULATION ADAPTER



Description	REF	Price cat.
AAA Abutment analogue for angulation adapter	13-462049	B

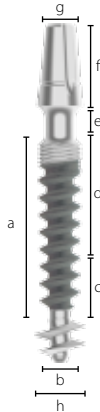
CASTABLE ABUTMENT AND IMPRESSION TRANSFER



Description	REF	Price cat.
PA AAA Castable abutment for AAA (5 pieces / pack)	13-462050	A

KOC® PLUS - IMPLANTS

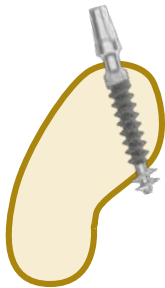
KOC® PLUS are single piece implants with polished sharp apical threads and roughened compression threads for placement in the spongy bone. **KOC® PLUS** combines the advantages of a compression screw implant with the unexpected stability of anchorage in the 2nd cortical. For use in the upper and the lower jaw. Made from highly compatible and proven titanium alloy (Ti6Al4V ELI according to ASFT M 136-13 and ISO 5832-3). Screw in with IT2 BCS or handgrip & adapter.



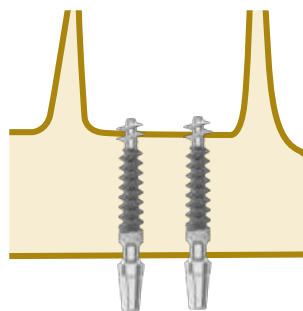
a) endosseous length	9, 12, 14, 16, 19 mm
b) max. endosseous Ø (= nominal Ø of rough implant part)	3.7 / 4.1 / 5.0 mm
c) height of cutting thread	3.0 mm
d) height of compression thread	6, 9, 11, 13 mm
e) neck length (for mucosa)	3 mm
f) head height	7.2 mm
g) max. diameter of the head	4.5 mm
h) diameter of apical thread	4.5 mm
nominal diameter 3.7:	4.5 mm
nominal diameter 4.1:	4.5 mm
nominal diameter 5.0:	4.5 mm

Description	Compression thread	Endosseous length	Neck length	REF	Price cat.
KOC 3.7 9+3	9 mm	12 mm	3 mm	13-455800	G
KOC 3.7 11+3	11 mm	14 mm	3 mm	13-455801	G
KOC 3.7 13+3	13 mm	16 mm	3 mm	13-455802	G
KOC 3.7 16+3	16 mm	19 mm	3 mm	13-455803	G
KOC 3.7 20+3	20 mm	23 mm	3 mm	13-455804	G
KOC 3.7 23+3	23 mm	26 mm	3 mm	13-455805	G
KOC 4.1 6+3	6 mm	9 mm	3 mm	13-455810	G
KOC 4.1 9+3	9 mm	12 mm	3 mm	13-455811	G
KOC 4.1 11+3	11 mm	14 mm	3 mm	13-455812	G
KOC 4.1 13+3	13 mm	16 mm	3 mm	13-455813	G
KOC 4.1 16+3	16 mm	19 mm	3 mm	13-455815	G
KOC 4.1 20+3	20 mm	23 mm	3 mm	13-455814	G
KOC 5.0 6+3	6 mm	9 mm	3 mm	13-455820	G
KOC 5.0 9+3	8 mm	12 mm	3 mm	13-455821	G
KOC 5.0 11+3	11 mm	14 mm	3 mm	13-455822	G
KOC 5.0 13+3	13 mm	16 mm	3 mm	13-455823	G
KOC 5.0 16+3	16 mm	19 mm	3 mm	13-455824	G

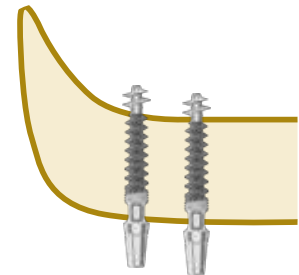
KOC® Plus implants are delivered incl. lab-set consisting of REF13-462111, 13-462030 and 13-462086.



Example for use: Bi-cortical anchorage of a KOC Plus implant in the atrophied distal mandible



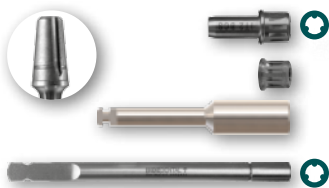
Example for use: Bi-cortical anchorage of a KOC Plus implant in the area of the floor of the nose



Example for use: Bi-cortical anchorage of a KOC Plus implant in the area of the distal maxilla (diameter 3.7 and 4.1)

Note: These indications are for experiences surgeons only. CT planning is recommended. Only polished parts of the cutting apical threads should penetrate into the 2nd cortical max. 1.5 mm. In given indications (min 3 stable implants) the treatment should be carried out in immediate loading protocols.

INSERTION TOOLS



Description		REF	Price cat.
IT2 BECES	For BECES implants with > Ø 5.5 mm / KOC X, KOC XB, KOC Plus	13-900030	E
IT2 S BECES	For BECES implants with > Ø 5.5 mm / KOC X, KOC XB, KOC Plus	13-900038	E
IT2W	Length 23 mm, for KOC and BECES implants	13-900039	C
AHB	Adapter for implants > Ø 5.5 mm, fits the handgrip, REF 13-311430 / 13-311431 / KOC X, KOC XB	13-900037	F

DRILL SEQUENCES

Normal / hard bone

Pilot drill	Form drill	Implant
DOS 1	-----	KOC 3.0
	DOS 2	KOC 3.2
	DOS 3 (4)	KOC 3.7
		KOC 4.1
	DOS 5	KOC 5.0

In very hard bone the implants should be inserted slightly deeper and then turned back 1/2 round.

Soft bone

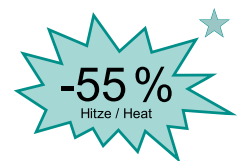
Pilot drill	Form drill	Implant
DOS 1	-----	KOC 3.0
	-----	KOC 3.2
	DOS 2	KOC 3.7
		KOC 4.1
	DOS 3 (4)	KOC 5.0

DRILL SEQUENCES KOC PLUS IMPLANTS

Pilot drill: also for penetration of the 2nd corticals		The 2nd cortical should be penetrated in regular bone density with the 2.0 mm drill only	Implant
BCD1 or BCDXI	Twist Drill 2.0 (Length 21, 30 or 40)	DOS 2	KOC PLUS 3.7
		DOS 3	KOC PLUS 4.1
		DOS 3 - (DOS 5)	KOC PLUS 5.0

HEATLESS®-DRILL «DOS» FOR IMPLANTS WITH CONICAL CORE

Titanium Ti6Al4V, color coded, depth coded and autoclavable. The drill is marked with laser depth markings.





Description	Color	max. working length	REF	Price cat.
DOS 1	yellow	17 mm	13-455311	D
DOS 2	black	17 mm	13-455312	D
DOS 3	red	17 mm	13-455313	D
DOS 4	blue	21 mm	13-455314	D
DOS 5	green	17 mm	13-455315	D

Description	Color	max. working length	REF	Price cat.
DOS 6	transparent	15 mm	13-455316	D

DOS 6: The tip of this drill is 2 mm shorter, allowing 2 mm deeper drilling than nominally indicated on the drill. This allows the conical bone cavity to be circularly expanded in the crestal region only without increasing the drilling depth. DOS 6 is intended for use with KOC 5.0 12, KOC 5.0 10 and KOC 4.1 8 implants.






INSERTION TOOLS

	Description	Type	Angulation	Length	for implant	REF	Price cat.
	IT K	long	-----	20 mm	KOC, KOC B, KDS	13-462320	C
	ITX K	extralong	-----	45 mm	KOC, KOC B, KDS	13-462321	C
	ITS K	short	-----	7 mm	KOC, KOC B, KDS	13-462322	C
	ITWH K *	contra-angle/ hex	-----	23 mm	KOC, KOC B, KDS	13-462323	C
	ITW K	contra-angle	-----	23 mm	KOC, KOC B, KDS	13-462331	C
	IT 15 K	long	15°	20 mm	KOC A	13-462325	G
	ITS 15 K	short	15°	7 mm	KOC A	13-462328	H
	IT TB K	long	-----	20 mm	KOC K	13-462327	D
	Tool E **	long	-----	20 mm	KOC A, B	13-462377	D
	IT TCA	long	-----	20 mm	KOC E	13-425065	D

* for W&H contra-angles with new connection to the contra-angle only.

** Emergency tool for KOC and BECES

INSTRUMENTS AND TOOLS

	Description	Type	Length	REF	Price cat.
	DX 2	Drill extender, extends by 19 mm		13-500704	D
	Standardized probe PDG	1-mm scale for radiological measurements	22 mm	13-425400	A
	Radiol. measure pin CDG	fits to DOS 1		13-420329	A
	Ratchet RAT2	for all Hex-instruments and insertion tools		13-425051	K
	Torque wrench TW2	10 - 70 Ncm		13-425402	S

It is recommended to have the torque ratchets recalibrated by us once a year.

TITANIUM CROWN BASE AND BAR-PROFILES

Multi-purpose titanium caps for:

- creating immediately lasered bridge-frames, together with bar profiles (without female profiles)
- x-ray controll, controll of the modellation
- direct polymerisation into bridges
- direct veneering with Titanium-ceramics

MA4 for: KOC, KOC B, KOC A, BECES 3.5, BECES 4.5 / MA5 for: KOC X, KOC Plus, BECES 3.6, BECES 4.6 - BECES 12

Material: TiAl4V



Description	REF	Price cat.
MA4 Titanium-cap, radio-opaque	13-462090	B
MA5 Titanium-cap, radio-opaque	13-462093	B

HANDGRIPS AND ADAPTERS FOR KOC® AND BECES®

HANDGRIP
Length 110 mm
REF 13-311430
Price cat. V

Dismountable, can be cleaned manually.



HANDGRIP
Length 110 mm
REF 13-311431
Price cat. V

Not dismountable. Cleaning in ultrasonic bath at 45° C, with alkaline cleaning medium.



Drill

BCD 1 ADAPTER Length 100 mm REF 13-310511 Price cat. F	TWIST DRILL 2.0 Length 100 mm REF 13-310512 Price cat. F	TWIST DRILL 2.5 Length 100 mm REF 13-310513 Price cat. F
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Adapter for all contra-angle-instruments, fits handgrip

ADAPTER RA Length 60 mm REF 13-310530 Price cat. C
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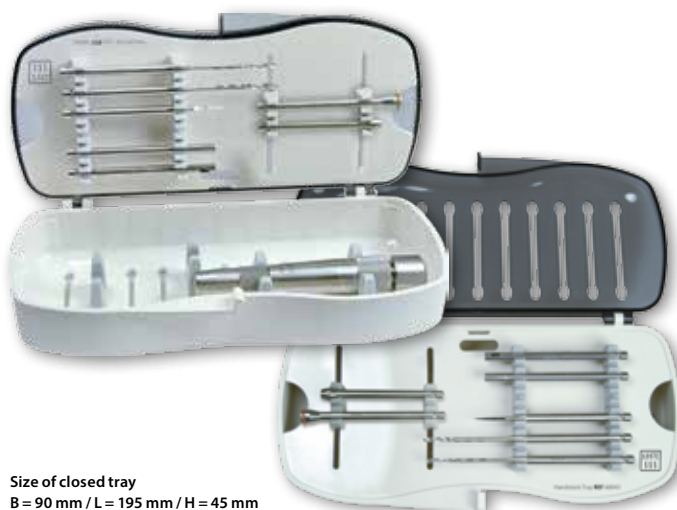


KOC®
KOC® B
KOC® T
V KDS
BECES 3.5
BECES 4.5

KOC® X
KOC® XB
KOC® PLUS
BECES 3.6
BECES 4.6
from > 5.5

KOC® MU
BECES® MU

ADAPTER AHK Length 70 mm REF 13-462319 Price cat. B	ADAPTER AHB Length 70 mm REF 13-900037 Price cat. F	ADAPTER IT MU 15 Length 60 mm REF 13-418167 Price cat. D
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Size of closed tray
 B = 90 mm / L = 195 mm / H = 45 mm

HANDGRIP - TRAY

Description	Length	REF	Price €
BCD 1 Adapter	100 mm	13-310511	
Twist Drill 2.0	100 mm	13-310512	
Twist Drill 2.5	100 mm	13-310513	
Adapter RA	60 mm	13-310530	
Adapter AHK	70 mm	13-462319	
Adapter AHB	70 mm	13-900037	
Handgrip	110 mm	13-311430	
Handgrip-Tray (empty)		13-60043	69,90
Handgrip-Tray (with content)		13-S60043	599,20

STARTER - TRAY

Autoclavable up to 134 °C, do not use in dry heat sterilisation.

This surgical tray contains all drills and tools for first steps with the system KOC®. Material: autoclavable plastic



Description	REF	Price €
IT K	13-462320	
ITS K	13-462322	
ITW K	13-462331	
IT LOC K	13-462333	
C-Drill KM 1	13-455300	
C-Drill KM 2	13-455301	
C-Drill KM 3	13-455302	
IT MU 15	13-418166	
IT ITV	13-500854	
IT 2 BECES	13-900030	
IT 2 S BECES	13-900038	
DOS 1	13-455311	
DOS 2	13-455312	
DOS 3	13-455313	
BCDX 1	13-900243	
Torque wrench TW2	13-425402	
Starter-Tray (empty)	13-60041-K	119,90
Starter-Tray (with content)	S13-60041-K	919,90

APPLICATION AREAS (INDICATIONS) KOC®

- Anchorage for crowns, bridges and bars, given a bone supply adequate with regard to bone quality, bone width and bone height.
- Nothing has been reported concurrently on the use of KOC® in combination with bone augmentation.
- Anchorage of prostheses using bars and ball retainer systems.

NOTES ON THE CARE OF SURGICAL STEEL INSTRUMENTS

Surgical steel instruments can quickly become damaged if inadequately or improperly cared for. Only the special solvents for cleaning surgical steel from blood and debris should be used. In case of doubt, consult Simpladent GmbH: implants@simpladent.ch.

Not recommended are:

- disinfectants / cleaners with a high chlorine content.
- disinfectants / cleaners with a high oxalic acid content.

Not recommended for instruments with colour coding are:

- Excessively high solvent concentrations, disinfectants / cleaners with the components mentioned above.
- Excessive temperatures in machine cleaning and sterilisation.
- Never exceed 134° C!

KOC® MU IMPLANTS



Description	Material	REF	Price cat.
KOC® MU 3.0 15	Ti6Al4V	13-455830	L
KOC® MU 3.2 12	Ti6Al4V	13-455838	L
KOC® MU 3.2 15	Ti6Al4V	13-455839	L
KOC® MU 3.7 10	Ti6Al4V	13-455840	L
KOC® MU 3.7 12	Ti6Al4V	13-455841	L
KOC® MU 3.7 15	Ti6Al4V	13-455831	L
KOC® MU 4.1 12	Ti6Al4V	13-455832	L
KOC® MU 4.1 15	Ti6Al4V	13-455833	L
KOC® MU 5.0 10	Ti6Al4V	13-455834	L
KOC® MU 5.0 12	Ti6Al4V	13-455835	L

KOC® MU and BECES® MU are available with a pre-angulation of 15 degrees. The implant-necks may be bent max. 15 degrees. This will allow to create angulations between 0 and 30 degrees. Compared to the implants systems sold by N.B. the thread of the Multi-Unit-Heads provide a larger diameter, which helps preventing fractures of the screw.

BECES® MU IMPLANTS



Description	Material	REF	Price cat.
BECES® MU 3.6 8	Ti6Al4V	13-900397	N
BECES® MU 3.6 10	Ti6Al4V	13-900398	N
BECES® MU 3.6 12	Ti6Al4V	13-900376	N
BECES® MU 3.6 14	Ti6Al4V	13-900330	N
BECES® MU 3.6 17	Ti6Al4V	13-900331	N
BECES® MU 3.6 20	Ti6Al4V	13-900332	N
BECES® MU 3.6 23	Ti6Al4V	13-900333	N
BECES® MU 3.6 26	Ti6Al4V	13-900377	N
BECES® MU 3.6 29	Ti6Al4V	13-900378	N
BECES® MU 3.6 32	Ti6Al4V	13-900399	N
BECES® MU 5.5 10	Ti6Al4V	13-900334	N
BECES® MU 5.5 12	Ti6Al4V	13-900335	N
BECES® MU 5.5 14	Ti6Al4V	13-900336	N
BECES® MU 7.0 10	Ti6Al4V	13-900337	N
BECES® MU 7.0 12	Ti6Al4V	13-900338	N

HEXACONE® MU IMPLANTS



Description	Material	REF	Price cat.
HCMU 3.3 13	Ti6Al4V	13-413225	N
HCMU 3.3 15	Ti6Al4V	13-413226	N
HCMU 3.3 17	Ti6Al4V	13-413227	N
HCMU 3.3 19	Ti6Al4V	13-413228	N
HCMU 3.3 21	Ti6Al4V	13-413229	N
HCMU 3.3 23	Ti6Al4V	13-413230	N
HCMU 4.0 10	Ti6Al4V	13-413235	N
HCMU 4.0 13	Ti6Al4V	13-413236	N
HCMU 4.0 15	Ti6Al4V	13-413237	N
HCMU 4.0 17	Ti6Al4V	13-413238	N
HCMU 4.0 19	Ti6Al4V	13-413239	N
HCMU 4.0 21	Ti6Al4V	13-413248	N
HCMU 4.0 23	Ti6Al4V	13-413249	N

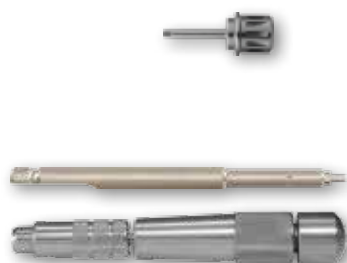
HEATLESS® - DRILL FOR IMPLANTS WITH CONICAL CORE



Ø working range	Max. working depth	Total length	Material	Code	REF	Price cat.
0.1 mm - 1.5 mm	15 mm	31.7 mm	Ti6Al4V	BCD 1	13-900240	C
0.1 mm - 1.5 mm	15 mm	42 mm	Ti6Al4V	BCDX 1	13-900243	C
2.0 mm / 3.6 mm	13 mm	30 mm	Ti6Al4V	DFN 2.9 13	13-418102	E
2.0 mm / 3.6 mm	15 mm	32 mm	Ti6Al4V	DFN 2.9 15	13-418103	E
2.0 mm	17 mm	36.5 mm	Ti6Al4V	DS 2	13-425001	D
2.8 mm	17 mm	36.5 mm	Ti6Al4V	DS 2.8	13-425005	D
2.7 mm	18 mm	36 mm	Ti6Al4V	DFN 3.0	13-425030	E
3.0 mm	18 mm	36 mm	Ti6Al4V	DFN 3.4	13-425031	E
3.4 mm	18 mm	36 mm	Ti6Al4V	DFN 3.7	13-425032	E
3.5 mm	18 mm	36 mm	Ti6Al4V	DFN 4.1	13-425049	E
4.05 mm	18 mm	36 mm	Ti6Al4V	DFN 4.2 - 4.5	13-425033	E
4.4 mm	18 mm	36 mm	Ti6Al4V	DFN 5.5	13-425034	E
2.7 mm	18 mm	39 mm	Ti6Al4V	DFLN 3.0	13-425035	E
3.0 mm	18 mm	39 mm	Ti6Al4V	DFLN 3.4	13-425036	E
3.4 mm	18 mm	39 mm	Ti6Al4V	DFLN 3.7	13-425037	E
4.05 mm	18 mm	39 mm	Ti6Al4V	DFLN 4.2 - 4.5	13-425038	E
3.4 mm	11.5 mm	30 mm	Ti6Al4V	DFSN 3.7	13-425039	D
3.9 mm	11.5 mm	30 mm	Ti6Al4V	DFSN 4.2 - 4.5	13-425040	D
max. 3.7 mm	2.5 mm	27 mm	Ti6Al4V	C Drill 3.7	13-425043	D
max. 4.1 mm	2.5 mm	27 mm	Ti6Al4V	C Drill 4.1	13-425050	D
max. 4.5 mm	2.5 mm	27 mm	Ti6Al4V	C Drill 4.2 - 4.5	13-425044	D
max. 5.5 mm	2.5 mm	27 mm	Ti6Al4V	C Drill 5.5	13-425045	D

★ It has been scientifically proven that **Simpladent** GmbH heatless® drills generate 55% less heat than traditional bone drills from other manufacturers. This makes it possible to use higher rotational speeds: between 3,000 and 5,000 rpm are recommended with good external cooling and intermittent drill technique.














TOOLS



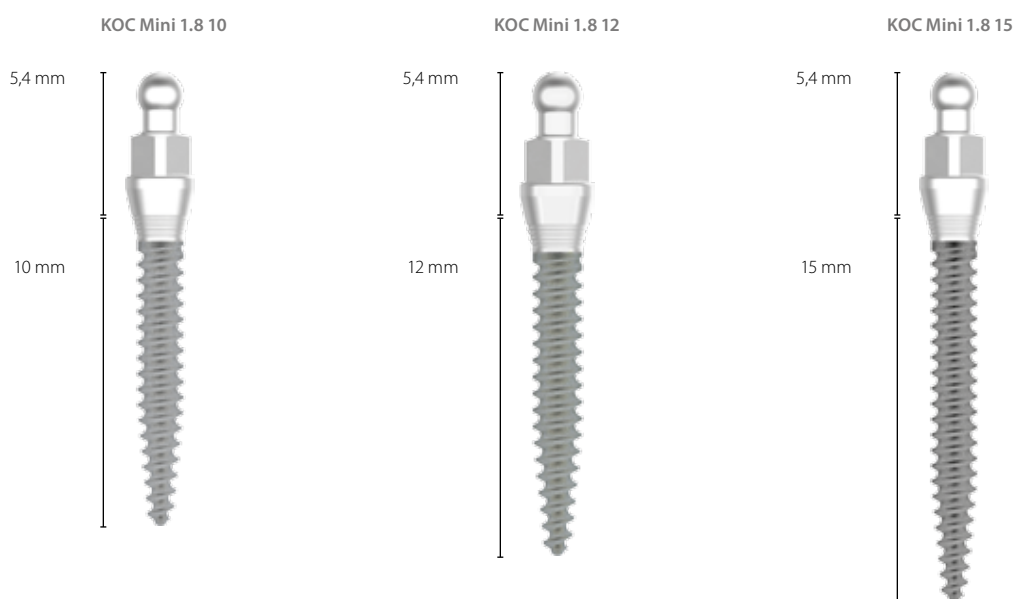
Description	Code	REF	Price cat.
Hex-Tool 1.25, long, 21 mm	HT 1.25	13-425100	C
Adapter for Handgrip	Adapter IT HC	13-418196	C
Handgrip self locking**	Handgriff A	13-311431	V

** for cleaning this instrument an ultrasonic cleaning device and a thermo-disinfector (i.e. Miele TD-series) are required. If these devices are not available in the dental office the handle with **REF 13-311430** should be purchased instead.

ACCESSORIES FOR KOC MU, BCS MU AND HEXACONE MU

	Description	Code	REF	Price cat.
	Insertion tool short. For RAT 2	IT1 MU15	13-418166	F
	Insertion tool medium. Use with IT ITV (REF 13-500854)	IT2 MU15	13-418201	F
	Insertion tool long. Use with IT ITV (REF 13-500854)	IT3 MU15	13-418202	F
	Insertion tool for KOC MU & BCS MU	ITX MU15	13-418203	F
	Adapter for handgrip 13-311430 or. 13-311431	Adapter IT MU 15	13-418167	D
	T-Base (Ti6Al4V)	T-Base MU	13-418188	B
	Castable abutment for use with T-Base and SF K MU	PA2 MU	13-418189	B
	Lab analogue for multiunit abutments	IA K MU	13-418159	A
	Prosthetic screw for KOC® MU , BCS® MU, HC MU	SF K MU	13-418164	B
	Long screw for TC MU and TS MU (Tool: HT 1.25). Material Ti6Al4V	SFL MU	13-418168	B
	Castable abutment, UCLA for direct use on MU-Implants. Comes without SF K MU.	PA MU	13-418119	B
	Transfer coping (Provisorienbasis). SF K MU has to be ordered separately	TC MU	13-418161	D
	Transfer, straight. SF K MU has to be ordered separately	TS MU	13-418162	C

KOC® MINI IMPLANTS



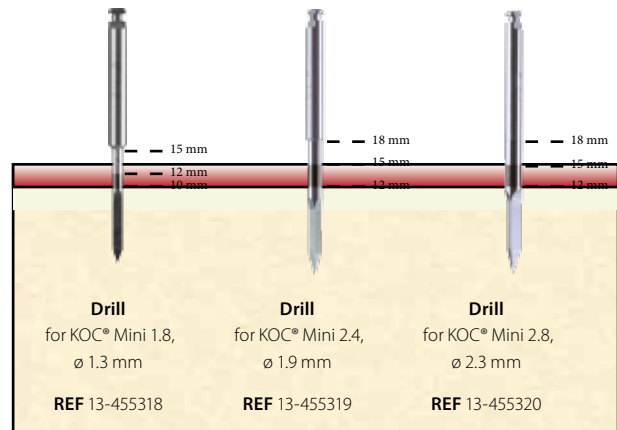
Description	Endosseous Ø	Endosseous length	Height above bone	Material	Max. insertion torque
KOC® Mini 1.8 10	1.8 mm	10 mm	5.4 mm	Ti6AL4V	25 Ncm
KOC® Mini 1.8 12	1.8 mm	12 mm	5.4 mm	Ti6AL4V	25 Ncm
KOC® Mini 1.8 15	1.8 mm	15 mm	5.4 mm	Ti6AL4V	25 Ncm
KOC® Mini 2.4 12	2.4 mm	12 mm	5.4 mm	Ti6AL4V	40 Ncm
KOC® Mini 2.4 15	2.4 mm	15 mm	5.4 mm	Ti6AL4V	40 Ncm
KOC® Mini 2.4 18	2.4 mm	18 mm	5.4 mm	Ti6AL4V	40 Ncm
KOC® Mini 2.8 12	2.8 mm	12 mm	5.4 mm	Ti6AL4V	60 Ncm
KOC® Mini 2.8 15	2.8 mm	15 mm	5.4 mm	Ti6AL4V	60 Ncm
KOC® Mini 2.8 18	2.8 mm	18 mm	5.4 mm	Ti6AL4V	60 Ncm

1. DRILLING AND DRILL DEPTH

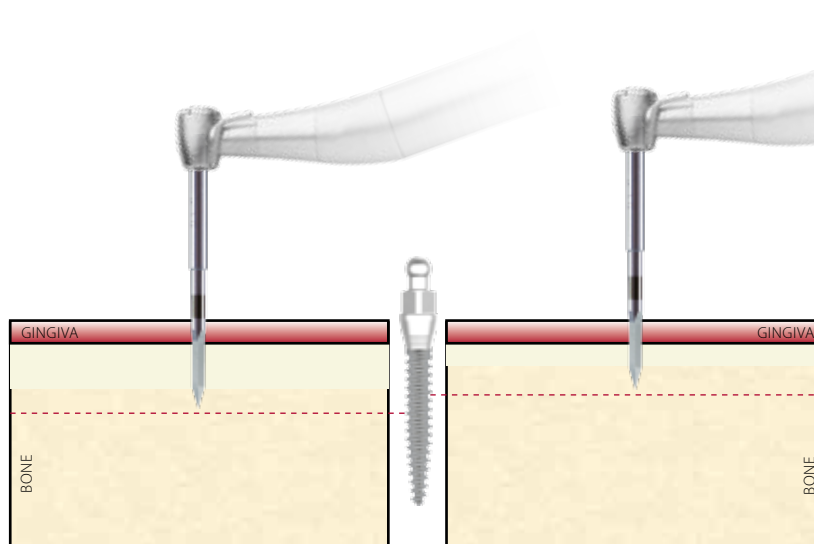
KOC® Mini implants are inserted into the bone with self-tapping and with bone compression. As a rule, an under-sized pilot hole is sufficient.

Recommended drill-speed: min. 3.000 Rpm, with sufficient cooling and intermittent drilling technique.

Note regarding hard bone: The torque must not exceed 45 Ncm during insertion. Should this be the case, the implant must be rotated out and the drilling depth extended to 2/3 of the implant length.



Drilling in hard bone:
1/2 of the endosseous
implant length



Drilling in soft bone:
1/3 of the endosseous
implant length

2. TO REMOVE THE IMPLANT FROM THE PACKAGE



1



2



3



4



SAME PROCEDURE WITH REF
13-462374 / REF 13-462376!

3. INSERTION AND PLACEMENT

TW2



IT K
KOC® Mini
(short, 12 mm)
REF 13-462376



IT K
KOC® Mini
(long, 20 mm)
REF 13-462374



IT H KOC® Mini
for manual insertion
REF 13-462375



KOC® MINI SET 1.8 10

	REF	Price cat.
KOC® Mini 1.8 10 (pack of 4)		
Drill for KOC® Mini DS, ø 1.3 mm	13-1455050	Q
Sleeve and O-ring (set of 4)		

KOC® MINI SET 2.8 12

	REF	Price cat.
KOC® Mini 2.8 12 (pack of 4)		
Drill for KOC® Mini DS, ø 2.3 mm	13-455056	Q
Sleeve and O-ring (set of 4)		

KOC® MINI SET 2.4 15

	REF	Price cat.
KOC® Mini 2.4 15 (pack of 4)		
Drill for KOC® Mini DS, ø 1.9 mm	13-455054	Q
Sleeve and O-ring (set of 4)		

KOC® MINI SET 1.8 15

	REF	Price cat.
KOC® Mini 1.8 15 (pack of 4)		
Drill for KOC® Mini DS, ø 1.3 mm	13-455052	Q
Sleeve and O-ring (set of 4)		

KOC® MINI SET 2.8 18

	REF	Price cat.
KOC® Mini 2.8 18 (pack of 4)		
Drill for KOC® Mini DS, ø 2.3 mm	13-455058	Q
Sleeve and O-ring (set of 4)		

KOC® MINI SET 2.4 12

	REF	Price cat.
KOC® Mini 2.4 12 (pack of 4)		
Drill for KOC® Mini DS, ø 1.9 mm	13-455053	Q
Sleeve and O-ring (set of 4)		

KOC® MINI SET 1.8 12

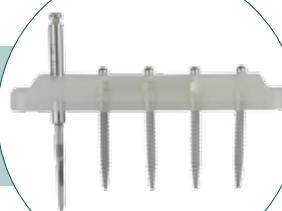
	REF	Price cat.
KOC® Mini 1.8 12 (pack of 4)		
Drill for KOC® Mini DS, ø 1.3 mm	13-455051	Q
Sleeve and O-ring (set of 4)		

KOC® MINI SET 2.8 15













	REF	Price cat.
KOC® Mini 2.8 15 (pack of 4)		
Drill for KOC® Mini DS, ø 2.3 mm	13-455057	Q
Sleeve and O-ring (set of 4)		

KOC® MINI SET 2.4 18

	REF	Price cat.
KOC® Mini 2.4 18 (pack of 4)		
Drill for KOC® Mini DS, ø 1.9 mm	13-455055	Q
Sleeve and O-ring (set of 4)		



ACCESSORIES

	Description	Working length	Code	REF	Price cat.
	Insertion tool short, 12 mm		IT K KOC® Mini	13-462376	C
	Insertion tool long, 20 mm		IT K KOC® Mini	13-462374	C
	Insertion tool (2-piece) for manual insertion		IT H KOC® Mini	13-462375	D
	Torque wrench, 10 - 70 Ncm		TW2	13-425402	S
	Impression coping KOC® Mini Pack of 4			13-462117	A
	Analogue KOC® Mini Pack of 4			13-462116	A
	Sleeve KOC® Mini for polymerizing into the prosthesis, delivery with inserted O-ring			13-462113	B
	O-ring for sleeve REF 462113 for replacement. Pack of 4			13-462114	B
	Depth-measurement-probe for KOC® Mini			13-462115	A
	Drill for KOC® Mini, ø 1.3 mm	15 mm		13-455318	C
	Drill for KOC® Mini, ø 1.9 mm	18 mm		13-455319	C
	Drill for KOC® Mini, ø 2.3 mm	18,4 mm		13-455320	C

BECES®

IMPLANTS FOR MAXIMUM SUCCESS



BECES® is the ideal implant for immediately loaded, cortically anchored restorations.

BECES® N implants seal and compress the 1st cortical, thereby dividing the long axis of the implant favourably in two sections.

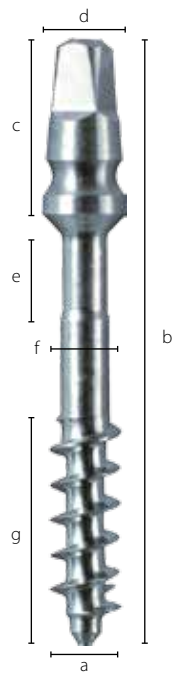
BECES® ex implants provide a sharp and cutting crestal thread, which engages in to the corticals of the extraction sockets. The apical compression thread provides perfect stability both in compressed spongy and in cortical bone. **BECES® ex** implants may be used both in extraction sockets and in healed bone areas. They are used for circular bridges and segments with at least three implants. Under adequate loading conditions and if enough implants are splinted, the treatment can be performed in an immediate load protocol.

Due to their polished surface, **BECES® ex** implants are extremely resistant against bacterial colonialization and peri-implantitis.

BECES® implants are made of the highly fracture-resistant Ti6Al4V ELI titanium alloy pursuant to ASTM F 136-13 and ISO 5832-3.

BECES® IMPLANTS

BECES® 2.7 17



- a) diameter of thread: max. 2.7 mm
 - b) endosseous length: 14 - 23 mm
 - c) abutment height: 6.8 mm
 - d) max. abutment diameter: 3.35 mm
 - e) length of bending zone: 2.55 mm
 - f) max. crestal diameter of shaft: 1.9 mm
 - g) length of thread: 4.5 - 5.5 mm
- Tool: for small head BECES

BECES 2.7 implants are used for the following indications:

- supporting (adjunct) implants for the cortical fixation of bridges
- creating tripod-support in specific intra-oral areas, for the cortical fixation of bridges
- creating anchorage in the 2nd and 3rd cortical
- temporary implant placement in cases when final implantation is not yet possible or not advisable

Description	a	b	e	g	Drill*	REF	Price €
BECES 2.7 10	2.7	10	2.55	4.5	DOS1 and / or DOS2	13-900200	599,90
BECES 2.7 12	2.7	12	2.95	4.5	DOS1 and / or DOS2	13-900201	599,90
BECES 2.7 14	2.7	14	2.95	5.5	DOS1 and / or DOS2	13-900202	599,90
BECES 2.7 17	2.7	17	2.95	5.5	DOS1 and / or DOS2	13-900203	599,90
BECES 2.7 20	2.7	20	2.95	5.5	DOS1 and / or DOS2	13-900204	599,90
BECES 2.7 23	2.7	30	2.95	5.5	DOS1 and / or DOS2	13-900205	599,90

If in very thin ridges only BECES 2.7 should be used, it is recommended to place at least 12 implants per jaw in cortical engagement.

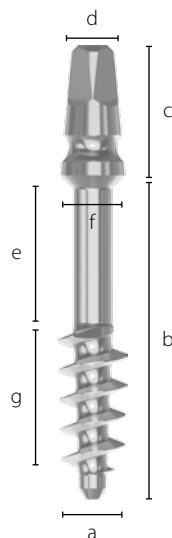
Recommended drills: **DOS1** and/or **DOS2**.



BCS 2.7 implants are sold with 10 pieces / pack only.

BECES® IMPLANTS

BECES® 3.5 17



- a) diameter of thread: 3.5 - 4.5 mm
 - b) endosseous length: 10 - 38 mm
 - c) abutment height: 6.8 mm
 - d) max. abutment diameter: 3.35 mm
 - e) shaft length: 3-29 mm
 - f) max. crestal diameter of shaft: 2 mm
 - g) length of thread: 5.5 mm
 - h) Type N collar: 2.8 mm
 - Type EX collar: 3.5 mm
- Tool: for small head BECES

Screw implant for bi- or multicortical placement for usage in bridge constructions. The implant may be placed into fresh extraction sockets and must splinted immediately. Completely machined/polished surface. The abutment head is identical with KOC®. Self cutting thread with anti rotation feature.

Description	a	b	REF	Price cat.
BECES 3.5 10	3.5	10	13-900208	G
BECES 3.5 14	3.5	14	13-900210	G
BECES 3.5 17	3.5	17	13-900211	G
BECES 3.5 20	3.5	20	13-900212	G
BECES 3.5 23	3.5	23	13-900213	G
BECES 3.5 26	3.5	26	13-900214	G
BECES 3.5 29	3.5	29	13-900215	G
BECES 3.5 32	3.5	32	13-900216	G
BECES 3.5 35	3.5	35	13-900217	G
BECES 3.5 38	3.5	38	13-900218	G
BECES 4.5 14	4.5	14	13-900220	G
BECES 4.5 17	4.5	17	13-900221	G
BECES 4.5 20	4.5	20	13-900222	G
BECES 4.5 23	4.5	23	13-900223	G
BECES 4.5 26	4.5	26	13-900224	G
BECES 4.5 29	4.5	29	13-900225	G

Insertion tools: IT KOC, ITX KOC, ITS KOC, Adapter AHK.

BECES® implants are delivered incl. lab-set consisting of REF 13-462111, 13-462029 and 13-462088.



BECES® IMPLANTS WITH LARGE HEAD

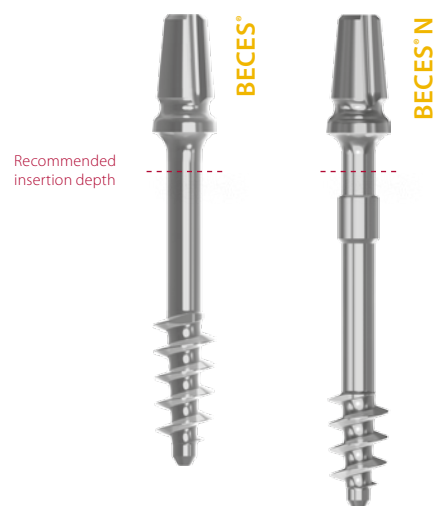
Application

BECES® N are for healed bone areals with density D2 - D6. The prop must be submerged 0.5 - 1 mm under the crestal bone level.

BECES® implants with large head are delivered incl. lab-set consisting of REF 13-462111, 13-462036 and 13-462086.



- a) max. apical thread Ø: 3.6 - 4.6 mm
- b) endosseous length: 10 - 29 mm
- c) abutment height: 7.2 mm
- d) max. abutment Ø: 3.9 mm
- e) length of polished shaft: 3 - 20 mm
- f) crestal Ø of shaft: 2.0 mm
- g) length of apical thread: 5.5 mm
- h) height of crestal micro-thread/prop: 2.5 mm
- i) **BECES®** no collar
- BECES® N prop** 2.5 mmd

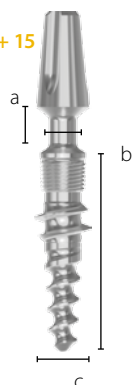


Description	a	b	e	f	i	REF BECES® BECES® N	Price cat.
BECES 3.6 10	3.6	10	4	2.0		13-900285	H
BECES 3.6 12	3.6	12	6	2.0		13-900284	H
BECES 3.6 14	3.6	14	5	2.0	N	13-900286	H
BECES 3.6 17	3.6	17	8	2.0	N	13-900287	H
BECES 3.6 20	3.6	20	11	2.0	N	13-900288	H
BECES 3.6 23	3.6	23	14	2.0	N	13-900289	H
BECES 3.6 26	3.6	26	17	2.0	N	13-900290	H
BECES 3.6 29	3.6	29	20	2.0	N	13-900291	H
BECES 3.6 35	3.6	35	?	?	?	13-900450	H
BECES 3.6 38	3.6	38	?	?	?	13-900451	H
BECES 4.6 8	4.6	8	3	2.0		13-900299	H
BECES 4.6 10	4.6	10	4	2.0		13-900292	H
BECES 4.6 12	4.6	12	6	2.0		13-900300	H
BECES 4.6 14	4.6	14	5	2.0	N	13-900293	H
BECES 4.6 17	4.6	17	8	2.0	N	13-900294	H
BECES 4.6 20	4.6	20	11	2.0	N	13-900295	H
BECES 4.6 23	4.6	23	14	2.0	N	13-900296	H
BECES 4.6 26	4.6	26	17	2.0	N	13-900297	H
BECES 4.6 29	4.6	29	20	2.0	N	13-900298	H
BECES 4.6 35	4.6	35	?	?	?	13-900452	H
BECES 4.6 38	4.6	38	?	?	?	13-900453	H

Insertion tools: IT2 BECES, IT2 S BECES, Adapter AHB

BECES® EX IMPLANTS II POLISHED, MATERIAL Ti6AL4V ELI, TRIPLE THREAD

BECES ex 3.5 + 15



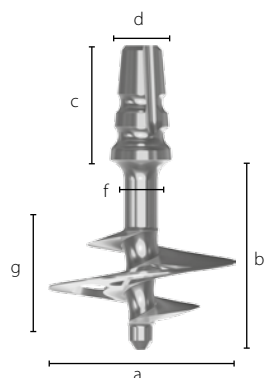
BECES ex 4.1 + 15



Description	Max. endosseous Ø mm	Endosseous length	REF	Price cat.
BECES ex 3.5 + 12	3.8	12	13-420150	K
BECES ex 3.5 + 15	3.8	15	13-420151	K
BECES ex 3.5 + 17	3.8	17	13-420152	K
BECES ex 3.5 + 19	3.8	19	13-420153	K
BECES ex 3.5 + 21	3.8	21	13-420154	K
BECES ex 3.5 + 23	3.8	23	13-420155	K
BECES ex 3.5 + 26	3.8	26	13-420156	K
BECES ex 3.5 + 29	3.8	29	13-420157	K
BECES ex 4.1 + 12	4.1	12	13-420160	K
BECES ex 4.1 + 15	4.1	15	13-420161	K
BECES ex 4.1 + 17	4.1	17	13-420162	K
BECES ex 4.1 + 19	4.1	19	13-420163	K
BECES ex 4.1 + 21	4.1	21	13-420164	K
BECES ex 4.1 + 23	4.1	23	13-420165	K

- a) Neck height 3.8 mm
 b) Neck diameter 2 mm (bendable up to 15°)
 c) Max. endosseous Ø 3.8 / 4.1 mm
 d) Endosseous length 12 - 23 mm
 Abutment 3.9 w x 7.2 h (mm)

BECES® IMPLANTS WITH LARGE HEAD



- a) thread Ø: 5.5 - 12 mm
- b) endosseous length: 10 - 20 mm
- c) Abutment height: 7.2 mm
- d) Abutment Ø: 3.9 mm
- e) length of polished shaft: 3 - 13 mm
- f) crestal diameter of shaft: 2.3 - 2.4 mm
- g) length of thread: 5.5 - 6.5 mm

BECES® implants with large head are delivered incl. lab-set consisting of REF 13-462111, 13-462036 and 13-462086.

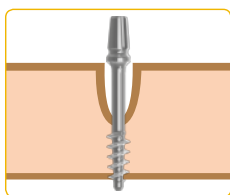


Description	a	b	e	f	REF	Price cat.
BECES 5.5 8	5.5	8	3	2.0	13-900255	K
BECES 5.5 10	5.5	10	4.5	2.0	13-900281	K
BECES 5.5 12	5.5	12	4.5	2.0	13-900250	K
BECES 5.5 14	5.5	14	6.5	2.0	13-900251	K
BECES 5.5 17	5.5	17	9.5	2.0	13-900252	K
BECES 5.5 20	5.5	20	12.5	2.0	13-900253	K
BECES 5.5 23	5.5	23	15.5	2.0	13-900265	K
BECES 5.5 26	5.5	26	18.5	2.0	13-900266	K
BECES 7 8	7	8	3	2.0	13-900258	K
BECES 7 10	7	10	4.5	2.0	13-900282	K
BECES 7 12	7	12	5	2.0	13-900260	K
BECES 7 14	7	14	7	2.0	13-900261	K
BECES 7 17	7	17	10	2.0	13-900262	K
BECES 7 20	7	20	13	2.0	13-900263	K
BECES 9 8	9	8	2.4	2.3	13-900269	M
BECES 9 10	9	10	2.8	2.3	13-900270	M
BECES 9 12	9	12	4.8	2.3	13-900274	M
BECES 9 14	9	14	6.8	2.3	13-900271	M
BECES 10.5 10	10.5	10	2.8	2.4	13-900276	M
BECES 10.5 12	10.5	12	4	2.4	13-900277	M
BECES 10.5 14	10.5	14	6	2.4	13-900278	M
BECES 10.5 17	10.5	17	9	2.4	13-900280	M
BECES 12 8	12	8	2.5	2.3	13-900279	O
BECES 12 10	12	10	2.7	2.3	13-900272	O
BECES 12 12	12	12	4	2.3	13-900275	O
BECES 12 14	12	14	6	2.3	13-900273	O

Insertion tools: IT2 BECES, IT2 S BECES, Adapter AHB

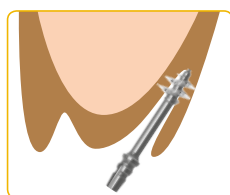
APPLICATION

in the lower jaw



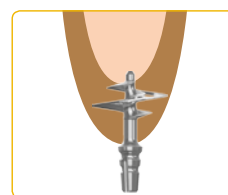
BECES® 3.5 / 4.5 / 5.5
inserted into local bone, cortical
(basal/lateral) support

in the upper jaw

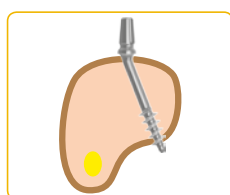
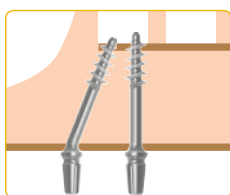


BECES® 3.5 / 4.5 / 5.5
inserted into the lateral maxilla

in the upper jaw









BECES® 12
Basal/sinusal and lateral support



ACCESSORIES FOR BECES® 3.5 TO BECES 12

BECES® sizes 3.5/4.5 (small head) are compatible with the following analogues & impression posts of the KOC®-systems:

	Description	Amount	Code	REF	Price cat.
	Impression post castable internally round for small head	Pack of 5	TSPA 4	13-462029	B
	Impression post internally round (Plastic) for large head	Pack of 5	TSPA 5	13-462030	B
 or	Double analogue (Metal)		IA4/IAU	13-462112	A
	Double analogue (Plastic)	Pack of 5	IA4/IAU	13-462111	B
	Castable abutment 7 mm high, white internally round for small head	Pack of 5	PO4	13-462088	B
	Castable abutment for large head	Pack of 5	POB	13-462086	B

PATHFINDER-DRILL

Conical drill with 3 cutting edges. For use as first drill for all crestal dental implant systems. May be used in the handgrip or at slow speed with very little pressure. The drill finds its way between corticals.



Description	Color	max. working length	REF	Price cat.
BCD 1	yellow	15 mm	13-900240	C
BCD 2	black	15 mm	13-900241	C
BCD 3	red	15 mm	13-900242	C
BCDX 1	yellow	15 mm	13-900243	C
BCDX 2	black	15 mm	13-900244	C
BCDX 3	red	15 mm	13-900245	C

Description	REF	Price cat.
BCD 1 Adapter	Pathfinder for handgrip; length 100 mm	13-310511 F

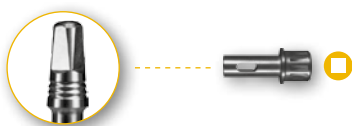
TWIST DRILL



Description	Ø	max. working length	REF	Price cat.
Twist Drill 2.0 / 21	2.0 mm	21 mm	13-90022	D
Twist Drill 2.0 / 30	2.0 mm	30 mm	13-90020	D
Twist Drill 2.0 / 40	2.0 mm	40 mm	13-90019	D
Twist Drill 2.5 / 21	2.5 mm	21 mm	13-90026	D

Description	REF	Price cat.
Twist Drill 2.0 , cylindrical drill 2.0 mm for handgrip; length 100 mm	13-310512	F
Twist Drill 2.5 , cylindrical drill 2.5 mm for handgrip; length 100 mm	13-310513	F

INSERTION TOOLS AND ADAPTERS



Description	REF	Price cat..
IT K , for BECES implants with Ø 3.5 mm + 4.5 mm	13-462320	C



Description	REF	Price cat.
IT2 BECES , for BECES implants with Ø 3.6, 4.6, 5.5, 7, 9, 10.5, 12 mm	13-900030	E
IT2 S BECES , for BECES implants with Ø 3.6, 4.6, 5.5, 7, 9, 10.5, 12 mm	13-900038	E



Description	REF	Price cat.
AHB , for BECES implants with Ø 3.6, 4.6, 5.5, 7, 9, 10.5, 12 mm. For handgrips REF 13-311430 & 13-311431	13-900037	F



Description	REF	Price cat.
Adapter , for contra-angle instruments. For handgrips 13-311430 & 13-311431	13-310530	C



Description	REF	Price cat.
AHK , Adapter for BECES 3.5/4.5 & KOC®. For handgrips 13-311430 & 13-311431	13-462319	B

FOR CEMENTATION

These adapters are used to change the direction of the abutment head in BECES 3.5 and 4.5 mm implants. Strong permanent cements (Fuji Plus or similar) must be used. Both the implant head and the inside of the adapter must be roughened. Over-projecting parts of the implants head are trimmed after the cement has set. The impression is taken directly on the adapter or with the transfer PA AAA.



Description	Height	Material	REF	Price cat.
AA15 KK Adapter, 15°	7.5	Ti6Al4V	13-462036	C
AA25 KK Adapter, 25°	7.8	Ti6Al4V	13-462046	C
AA5 15° Adapter short for large head		Ti6Al4V	13-462052	C
AA5 25° Adapter short for large head		Ti6Al4V	13-462053	C
ZAA15 KK Adapter, 15°	7.4	Zirconia	13-462047	E
ZAA25 KK Adapter, 25°	7.7	Zirconia	13-462048	E



LAB ANALOGUE FOR ANGULATION ADAPTER (15° AND 25°)



Description	REF	Price cat.
AAA Abutment analogue for angulation adapter 15° and 25°	13-462049	B

CASTABLE ABUTMENT AND IMPRESSION TRANSFER



Description	REF	Price cat.
PA AAA Castable abutment and transfer for AAA (Pack of 5)	13-462050	B

CASTABLE ANGULATION ADAPTER

This castable is used for direct modelling. During the metal try in, over-projecting parts of the implant's head are trimmed away.



Description	Height H	REF	Price cat.
AAL 15 KK Adapter, 15°, reducible (Pack of 5)	7.5	13-462045	E

CEMENTING - ADAPTER

Replacement head for cementation on the shaft of the implant. For BECES implants with shaft-diameter of up to 2.1mm. Larger shafts must be trimmed. This abutment adjusts the vertical position of the abutment. Use Fuji Plus for cementing. Machined surface, with drain for cement on top. Material: Ti6Al4V



Description	REF	Price cat.
B21 Replacement abutment for Beces, internal diameter 2.15 mm	13-900316	A
B21 ANA Anatomic replacement abutment for Beces, height above mucosa 7.5mm, tralingival height 1.5 mm, fully grindable	13-462021	C

TITANIUM CROWN BASE AND BAR-PROFILES

Multi-purpose titanium caps for:

- creating immediately lasered bridge-frames, together with bar profiles (without female profiles)
- x-ray controll, controll of the modellation
- direct polymerisation into bridges
- direct veneering with Titanium-ceramics

MA4 for: KOC, KOC B, KOC A, Beces 3.5, MA5 for: KOC x, KOC Plus, Beces 3.6, Beces 4.6 - Beces 12

Material: TiAl4V



Description	REF	Price cat.
MA4 Titanium-cap, radio-opaque	13-462090	B
MA5 Titanium-cap, radio-opaque	13-462093	B

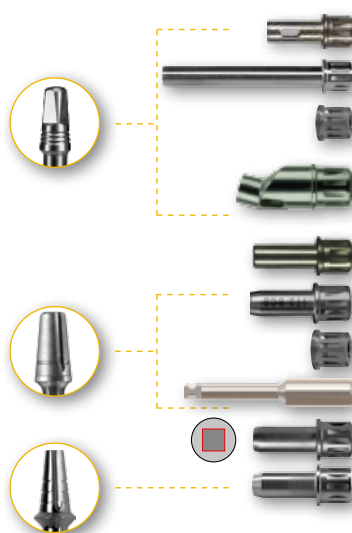
STARTER - TRAY



Autoclavable up to 134° C, do not use in dry heat sterilisation. This surgical tray contains all drills and tools for first steps with the system BECES®. Material: autoclavable plastic.

Description	REF		REF	Price €
IT K	13-462320	Twist Drill 2.0 30	13-90020	
ITS K	13-462322	Twist Drill 2.5 21	13-90026	
IT 2 BCS	13-900030	BCDX 1	13-900243	
IT 2 S BCS	13-900038	IT2 MU 15	13-418166	
BCD1	13-900240	IT ITV	13-500854	
Twist Drill 2.0 21	13-90022	Torque wrench TW2	13-425402	
Starter Tray empty			13-60040-K	119,90
Starter Tray with content			13-560040-K	708,80

INSERTION TOOLS



Description	Type	Angulation	Length	for Implant	REF	Price cat.
IT K	long	-----	20 mm	BECES, KOC, KOC B, KDS	13-462320	C
ITX K	extralong	-----	45 mm	BECES, KOC, KOC B, KDS	13-462321	C
ITS K	short	-----	7 mm	BECES, KOC, KOC B, KDS	13-462322	C
IT 15 K	long	15°	20 mm	BECES, KOC A	13-462325	E
ITS 15 K	short	15°	7 mm	BECES, KOC A	13-462328	E
IT TB K	long	-----	20 mm	BECES, KOC K	13-462327	G
IT2 BECES	long	-----	20 mm	BECES, KOC, KOC B, KDS	13-900030	H
IT2 S BECES	short	-----	7 mm	BECES, KOC X, KOC Plus	13-900038	D
IT2W		-----	23 mm	KOC, BECES	13-900039	C
Tool E *	long	-----	20 mm	BECES, KOC B	13-462377	D
IT TCA	long	-----	20 mm	BECES, KOC E	13-425065	D

* Emergency tool for KOC and BECES

INSTRUMENTS AND TOOLS



Description	Type	Length	REF	Price cat.
DX 2	Drill extender, extends by 19 mm		13-500704	D
Standardized probe PDG	1-mm scale for radiological measurements	22 mm	13-425400	A
Radiol. measure pin CDG	fits to DOS 1, locked usage only		13-420329	A
Ratchet wrench RAT 2	For insertion aids		13-425051	K
Torque wrench* TW2	10 - 70 Ncm		13-425402	S
Handle	For adapters, can be disassembled	110 mm	13-311430	V
Handle **	For adapters, Self-locking		13-311431	V

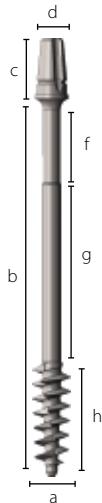
* It is recommended to have the torque ratchets recalibrated by us once a year.

** for cleaning this instrument an ultrasonic cleaning device and a thermo-desinfector (i.e. Miele TD-series) are required. If these devices are not available in the dental office the handle with REF 13-311430 should be purchased instead.

ZDI ZYGOMA - SCREW - IMPLANTS

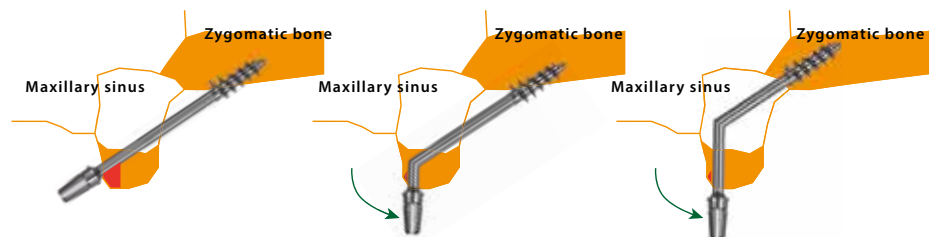
ZDI-Implants are placed trans-sinually or below/inside the crista zygomatico-alveolaris, and in the alveolar crest of the maxilla. For cortical anchorage in the zygomatic bone. Depending on the anatomic situation the smooth parts of the implants are positioned below the Schneiderian mebrane or below the oral muscosa.

These implants are to be used only by trained surgeons. ZDI-Implants provide a bending area below the cementing abutment. Therefore they can be aligned with other abutments in the center of the crest after the implant has been placed. An additional vertical osteotomy may be necessary (see the drawing) . This implant can be used in combination with tubero-ptyergoid screw implants (BECES). The treatment protocol requires immediate splinting. **Material:** Ti6Al4V ELI.



- a) max. diameter of thread: 4.6 mm
- b) Endosseous length: 35 - 55 mm
- c) Abutment height: 7 mm
- d) max. abutment diameter: 3.9 mm
- f) Diameter of shaft: 2.0 mm
- g) upper diameter of shaft: 2.2 mm
- h) length of thread: 10 mm

Description	Thread Ø	Length w/o head	REF	Price cat.
ZDI 4.6 35	4.6	35	13-900100	F
ZDI 4.6 37.5	4.6	37.5	13-900101	F
ZDI 4.6 40	4.6	40	13-900102	F
ZDI 4.6 42.5	4.6	42.5	13-900103	F
ZDI 4.6 45	4.6	45	13-900104	F
ZDI 4.6 47.5	4.6	47.5	13-900105	F
ZDI 4.6 50	4.6	50	13-900106	F
ZDI 4.6 52.5	4.6	52.5	13-900107	F
ZDI 4.6 55	4.6	55	13-900108	F



ZDI-Implants may be used in a trans-sinusal or sub-mucosal manner. The abutment head is aligned with the tooth arch through bending.

TWIST DRILL



Description	REF	Price cat.
Twist Drill 2.2 / 50 For Zygoma implants, SS	13-90021	D
Twist Drill 2.2 / 55 For Zygoma implants, SS	13-90023	D
Twist Drill 2.2 L = 100 mm For use with handgrips 13-311430 or 13-311431	13-310514	F

ACCESSORIES FOR ZDI

Code REF	Image	Code REF	Image	Code REF	Image	Code REF	Image
TSPA 5 (plastic) 13-462030		IA4/IAU (metal) 13-462112		IA4/IAU (plastic) 13-462111		POB 13-462086	
Impression post internally round Pack of 5		Double analogue		Double analogue		Castable abutment	
Price cat. B		A		B		B	

TRAY FOR STRATEGIC IMPLANTS



Autoclavable up to 134° C, do not use in dry heat sterilisation. This surgical tray contains all drills and tools for first steps with the system BECES®.

Material: surgical steel / aluminium
Suitable for autoclave and dry heat sterilisation

L 229 mm // W 104 mm // H 51 mm

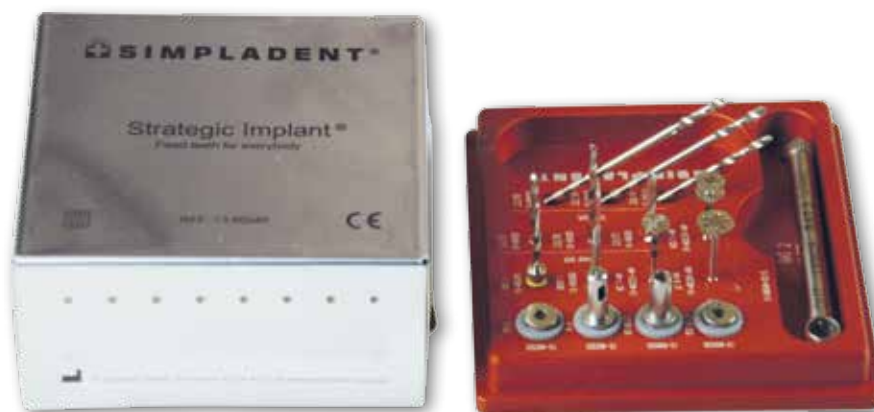
Description	REF	Price €
Tray (empty)	13-60012	399,90

STRATEGIC IMPLANT® INSTRUMENT KIT

Autoclavable up to 134° C, do not use in dry heat sterilisation. This surgical tray contains all drills and tools for first steps with the system BECES®.

Material: surgical steel / aluminium. Suitable for autoclave and dry heat sterilisation

L 95 mm // W 90 mm // H 51 mm



Description	REF	Description	REF	Price €
ITS K	13-462322	BCDX 1	13-900243	
DOS 1	13-455311	IT2 BECES	13-900030	
Twist Drill 2.0 / 21	13-90022	IT2 S BECES	13-900038	
Twist Drill 2.0 / 30	13-90020	KC 7-4W	13-462221-4W	
Twist Drill 2.0 / 40	13-90019	KCD 7-4W	13-462237-4W	
Twist Drill 2.2 / 50	13-90021	LC 9-6W	13-462261-6W	
Twist Drill 2.2 / 55	13-90023	Ratchet RAT2	13-425051	
Twist Drill 2.5 / 21	13-90026			
IT K	13-462320	Instrument tray with content	13-60049	859,90












TPG® uno implants provide a sharp and cutting crestal thread, which engages in to the corticals of the extraction sockets. The apical compression thread provides perfect stability both in compressed spongy and in cortical bone. **TPG® uno** implants may be used both in extraction sockets and in healed bone areas. They are used for circular bridges and segments with at least three implants. Under adequate loading conditions and if enough implants are splinted, the treatment can be performed in an immediate load protocol.

Due to their polished surface, **TPG® uno** implants are extremely resistant against bacterial colonization and peri-implantitis.





TPG® uno IMPLANTS II POLISHED, MATERIAL Ti6AL4V ELI, TRIPLE THREAD

	Description	Max. endosseous Ø mm	Endosseous length	REF	Price cat.
TPG Uno 3.5 + 15 	TPG Uno 3.5 + 12	3.8	12	13-420120	K
	TPG Uno 3.5 + 15	3.8	15	13-420121	K
	TPG Uno 3.5 + 17	3.8	17	13-420122	K
	TPG Uno 3.5 + 19	3.8	19	13-420123	K
	TPG Uno 3.5 + 21	3.8	21	13-420124	K
	TPG Uno 3.5 + 23	3.8	23	13-420125	K
	TPG Uno 3.5 + 26	3.8	26	13-420126	K
TPG Uno 4.1 + 15 	TPG Uno 3.5 + 29	3.8	29	13-420127	K
	TPG Uno 4.1 + 12	4.1	12	13-420130	K
	TPG Uno 4.1 + 15	4.1	15	13-420131	K
	TPG Uno 4.1 + 17	4.1	17	13-420132	K
	TPG Uno 4.1 + 19	4.1	19	13-420133	K
	TPG Uno 4.1 + 21	4.1	21	13-420134	K
	TPG Uno 4.1 + 23	4.1	23	13-420135	K
a) Neck height 3.8 mm b) Neck diameter 2 mm (bendable up to 15°) c) Max. endosseous Ø 3.8 / 4.1 mm d) Endosseous length 12 - 23 mm Abutment 3.9 w x 7.2 h (mm)					

ADAPTER

		Description	Code	REF	Price cat.
		Adapter, for handgrips REF 13-311430 & REF 13-311431	ADAPTER RA	13-310530	D
		For single-piece TPG® uno			
		Insertion tool short, for large head. Use with RAT2 and TW2. Length 7 mm	IT2 S BCS	13-900038	E
		Insertion tool medium, for large head. Use with RAT2 and TW2. Length 19 mm	IT2 BCS	13-900030	E
		Insertion tool for large head. Use with angle piece. Length 23 mm	IT2W	13-900039	C
		Torque wrench 10 - 70 Ncm. It is recommended to have the torque ratchets recalibrated by us once a year.	TW2	13-425402	S
		Ratchet for all hex instruments and insertion tools	RAT2	13-425051	K



IMPRESSION TAKING AND LABORATORY ACCESSORIES

	Titanium cap, radio opaque Ti6Al4V, weldable	MA5	13-462093	B
	Impression post, plastic Internally round. Pack of 5	TSPA 5	13-462030	B
	Castable abutment Pack of 5	POB	13-462086	B
	Double analogue, plastic Pack of 5	IA4/IAU	13-462111	B




HEATLESS® DRILLS DOS FOR IMPLANTS WITH CONICAL CORE

Titanium Ti6Al4V, colour-coded, depth-coded and autoclavable. The drill is marked with laser depth markings.
Use between 3,000 and 5,000 rpm with good cooling and intermittent drill technique.
Due to the extremely high cutting performance, you can work without pressure.



	Description	Colour	Max. working length	REF	Price cat.
	DOS 1	yellow	17 mm	13-455311	D
	DOS 2	black	17 mm	13-455312	D
	BCDX 1	yellow	15 mm	13-900243	C
	BCDX 2	black	15 mm	13-900244	C

DRILLS FOR 1ST CORTICAL

	Description	Code	REF	Price cat.
	C-Drill KM1 3.0 - 3.2 Drill for 1 st cortical	C-Drill KM1	13-455300	E
	C-Drill KM2 3.7 - 4.1 Drill for 1 st cortical	C-Drill KM2	13-455301	E
	C-Drill KM3 5.0 Drill for 1 st cortical	C-Drill KM3	13-455302	E

LITERATURE



Description

Introduction into Immediate Loading

Language

English

REF

13-0009-05

Price cat.

R

Russian

13-0004-05

R



Description

#1 Introduction into the Work with the Strategic Implant®

Definitions, General Explanations and Treatment Planning

Language

English

REF

13-4448-EN

Price cat.

0,-

Russian

13-4448-RU

0,-

Serbian

13-4448-SERB

0,-

Ukrainian

13-4448-UA

0,-

German

13-4448-DE

0,-

Spanish

13-4448-ES

0,-



#4 Cookbook Mastication

How to Let Your Patients Chew Successfully (Not Only) on a Strategic Implant®

English

13-4447-EN

D

German

13-4447-DE

D

Bulgarian

13-4447-BG

D

Polish

13-4447-PL

D

Russian

13-4447-RU

D

Serbian

13-4447-SERB

D

Spanish

13-4447-ES

D

Hungarian

13-4447-HU

D



#6 Lab work on the Strategic Implant®

A Guideline for Dental Technicians

English

13-4460_EN

D

Spanish

13-4460_ES

D

Russian

13-4460_RU

D

Serbian

13-4460_SERB

D

German

13-4460_DE

D



MANUFACTURER'S INFORMATION regarding the preparation of resterilisable medical devices complies with EN ISO 17664

Please read carefully!

- SIMPLADENT GmbH resterilisable medical products are:**
- Instruments for operating abutments and screws
 - Instruments for determining the insertion torque (torque control) and ratchets
 - Instruments for preparing endosseous bone cavities (drills, cutters)
 - Bone expansion screws and distractors
 - Drill guide sleeves
 - Abutments and screws, provided they do not remain in / with the patient between individual treatment appointments and are not used on other patients. They should be stored by the operator between the treatment appointments, e.g. together with the patient's file.
 - Manual instruments for the placement of implants and bone preparation.

Reusability

Frequent reconditioning has no effect or restriction on the products mentioned above, as the end of the product service life is determined by wear and damage due to use. The operator is responsible for the use of damaged and contaminated instruments. Liability is excluded if disregarded.

Legal bases

The following legal bases, regulations and recommendations are applied with regard to the products mentioned above: (Germany)

- Medizinproduktegesetz MPG (Medical Devices Act)
- Medizinprodukt - Betriebverordnung (Medical Device - Operator Ordinance)
- Bundesgesundheitsblatt (Federal Health Gazette) 2001 : 44: 1115-1126

Hygiene requirements for the processing of medical devices (Recommendation of the Commission for Hospital Hygiene [Kommission für Krankenhaushygiene] at the Robert-Koch Institute and the Federal Ministry for Drugs and Medical Devices [Bundesministerium für Arzneimittel und Medizinprodukte]).

Legal information:

Implants and components of the COI/Diskos system should only be used and operated by users with valid authorisation pursuant to § 2 Medizinprodukte-BetrieblV (Medical Devices Operator Ordinance). This also applies to the consultation of patients who have had implants placed or patients who are to have implants placed.

General principles

All reusable products must be cleaned, disinfected and sterilised before each use; this also applies to the initial use of products that are supplied nonsterile. Efficient cleaning and disinfection is essential for effective sterilisation. Special cleaning / sterilisation instructions should be obtained from the instructions for use. The operating instructions of the practice units must also be observed. As the operator is responsible for the sterility of instruments during use, please ensure that only adequate, validated parameters specific to the unit and product are constantly maintained during each cycle. Please also observe all valid legal and hygiene regulations of the dental practice and dental hospital.

This applies in particular to the different guidelines regarding effective prior inactivation. Important: Always wear protective gloves for your own safety when handling contaminated instruments!

- Instruments made from different materials should never be disinfected, cleaned or sterilised together. This also applies when using an ultrasonic cleaner.
- During mechanical cleaning, instruments should be arranged so that they cannot come into contact, as otherwise there is the risk of damage.
- Multi-part instruments such as ratchets, trephine drills, screw-drivers etc. should be disassembled into their component parts and these should be individually disinfected, cleaned or sterilised.
- These instruments should also be stored disassembled until the next use.

Care instructions of surgical steel instruments

Surgical steel instruments can quickly become damaged with inadequate or incorrect care. Only commercially available solvents should be used for surgical steel; if in doubt contact SIMPLADENT GmbH.

The following are not recommended:

- Disinfection/cleaning agent with a high chlorine content
 - Disinfection/cleaning agent with a high oxalic acid content
- The following are not recommended for instruments with colour coding
- Too high solvent concentrations, disinfection / cleaning agent with the ingredients mentioned above
 - Too high temperatures with mechanical cleaning and sterilisation; never higher than 135 °C

Conditioning

Coarse impurities must be removed from the products immediately after use (within 1-2 hrs maximum). Surgical residue (blood, secretions, tissue residue) should not be allowed to dry on the products. Instruments should be placed in a disinfectant solution immediately after surgery. For temporary storage and pre-disinfection/cleaning immediately after use on patients the instruments can be placed in an interim stand filled with a suitable cleaning / disinfection agent. Contamination should then be cleaned from the instruments under running water or in a disinfectant solution; the disinfectant should be aldehyde-free (otherwise fixation of blood and contamination), have proven efficacy (e.g. DGHM [German Society for Hygiene and Microbiology] / FDA approved and CE Mark), be suitable for instrument disinfection and compatible with the instruments (see Section "Material compatibility"). Follow the disinfectant instructions for use. For manual removal of contamination use only a clean, soft brush or a clean soft cloth which is used specifically for this purpose. Never use metal brushes or steel wool.

- Please note that the disinfectant used for conditioning is only for personal protection and cannot replace the subsequent disinfection step to be performed after cleaning.
- Never allow instruments to remain wet or moist for a longer period of time.

- Corroded, rusty instruments must be cleaned in an ultrasonic cleaner.
- If the corrosion cannot be removed, the instrument should be discarded and may no longer be used.

- Encrustations must be thoroughly removed using nylon brushes.
- Encrusted blood can also be dissolved using hydrogen peroxide 3%
- Instrument disinfectant residues can be removed by rinsing several times with water.

Cleaning / Disinfection

Ensure when using products for cleaning and disinfection

- that the products are basically suitable for the cleaning and disinfection of instruments
- that the cleaning and disinfection agent – if applicable – is suitable for ultrasonic cleaning (no foaming)
- that a cleaning and disinfection agent with proven efficacy (e.g. DGHM or FDA approved and CE Mark) is used
- that the chemicals used are compatible with the instruments; alkaline cleaning solutions should be preferred. A prerequisite for the use of a combined cleaning / disinfection agent is very low bacterial pre-loading (no visible contamination) due to effective pre-cleaning of the instruments. The concentrations and reaction times given by the manufacturer of the cleaning-disinfection agent must be strictly adhered to.

Use only freshly mixed solutions, sterile or low-bacteria (max. 10 germs / ml) and low-endotoxin (max. 0.25 endotoxin units / ml) water (e.g. aqua valde purificata) and only filtered air for drying. Instruments that cannot be autoclaved must be disinfected before each use.

Process: Cleaning and disinfection

Automatic cleaning in a cleaning and disinfection unit in combination with the cleaning agent recommended by the unit manufacturer.

Procedure:

Insert the instruments so that the liquid can flow out of the drain tubes and blind holes. Set the cycle and adhere to the unit manufacturer's wash and time times. The cleaned components should be examined for visible dirt when removing the instruments. If necessary, repeat the cycle or clean manually.

Manual cleaning

1. Thoroughly clean disinfection / cleaning agent from the instruments by rinsing them with water and, if required, with the aid of a soft nylon brush.
2. **Ultrasonic cleaner:** Place the components in a basket, avoid acoustic shadows. Add an enzymatic cleaning agent to the water and clean the components at a temperature of 40 - 50 °C in the ultrasonic cleaner (35-40 kHz) for 3 minutes. Ensure that the components are immersed completely in the water without bubbles.
3. Then remove the instruments from the cleaning solution and rinse them thoroughly (minimum 1 min.) under running water. Use fully desalinated water for this stage, if possible.
4. Check the instruments visually and repeat the cleaning stage, if necessary.
5. Pack the instrument as soon as possible after removal (see Section "Packaging", if necessary after drying again at a clean location).
6. Document the approval.

Mechanical cleaning

Cleaning, disinfection and drying in accordance with DIN EN ISO 15883-1 2006 and DIN EN 15883:2006

Pre-cleaning: Place the disassembled instruments in cold water for 5 minutes. Then brush the disassembled instruments with a soft nylon brush under water to remove coarse impurities.

Mechanical cleaning: e.g. using the Miele 8535 CD unit at 55 °C for 5 minutes (programme Vario TD) with an enzymatic cleaner.

Important points

- All instruments must be sterilised after cleaning.
- When sterilising multi-part instruments in an autoclave without a drying programme, it is essential that the instruments are always sterilised in a disassembled state.
- The instruments should always be checked for corrosion after sterilisation.
- The scaling of the instruments must still be visible after sterilisation; otherwise the instruments should be replaced.
- New instruments must be cleaned and sterilised without packaging before using for the first time.
- Preparation of all instruments with cavities is particularly critical. This applies especially to internally cooled drills, placement aids and instruments with blind holes. As the water supply cavity cannot be checked with internally cooled drills and bone chips and debris could be carried from patient to patient, we recommend using these instruments as single-use products only or using them exclusively on one patient. With all other instruments it must be ensured that the cavities are completely clean. Multi-part placement aids should be disassembled for cleaning, if possible.

Control

Check all instruments after cleaning and cleaning / disinfection for corrosion, damaged surfaces, chipping, damage to the shape (e.g. bent and non-centric running instruments, damaged or blunt blades) as well as contamination and discard any damaged instruments. Instruments that are still contaminated must be cleaned and disinfected again. Then check the function and integrity of the instruments. It is not necessary to apply core products (e.g. oil) to instruments and abutments or screws.

Special aspects to observe with drills and cutters

Use cutting instruments for a maximum of 10 times. Thoroughly check these instruments after each use for cleanliness (including the internal cooling sections in particular) and the sharpness of the blades. The wear of bone drills depends on the hardness of the bone at the site. If in doubt, drills should only be used once. There is a considerable loss of cutting performance if the tip is damaged. To ensure care of the drills it is therefore essential to observe the following points:

- During the operation drills should be placed gently in the storage tray, which can be filled with physiological saline solution. Drills should not be kept in the physiological saline solution for longer than 1 hour to avoid corrosion.
- Never drop the drills directly on the tip
- The drills should not come into contact during ultrasonic cleaning

Packaging

- Sort out the instruments in the sterilisation tray and then pack them in single-use sterilisation packaging (single or double packaging) and / or sterilisation container, which
- complies with DIN EN 868-2ff/DIN EN ISO/ANSI AAMI ISO 11607
 - is suitable for steam sterilisation (temperature resistant up to min. 137 °C (279 °F), adequate steam permeability)
 - provides adequate protection of the instruments and sterilisation packaging against mechanical damage
 - is regularly serviced according to the manufacturer's instructions
 - (sterilisation container)

Sterilisation

Method: Fractional pre-vacuum procedure (according to ISO 17665 or ISO 13060), in a unit that complies with EN 285

Temperature: Heat to 132 °C; max. 137 °C

Pressure: 3 pre-vacuum stages with min. 60 millibar pressure

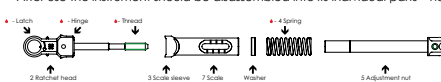
Hold time: minimum 3 min. at 132 °C

Drying time: minimum 10 min.

Check the sterile instrument packaging for damage after sterilisation, check the sterilisation indicators. To avoid staining and corrosion the steam must not

Schematic diagram of the TW/TW2 torque wrench

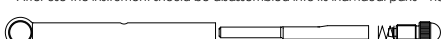
- After use the instrument should be disassembled into its individual parts – no tool is required for disassembly.



- Pre-clean the individual parts under running cold water using a soft brush. Do not allow blood residue and other adhering deposits to dry on the components.

Schematic diagram of the RAT2 ratchet

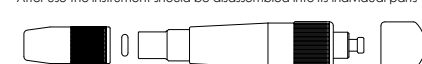
- After use the instrument should be disassembled into its individual parts – no tool is required for disassembly.



- Pre-clean the individual parts under running cold water using a soft brush. Do not allow blood residue and other adhering deposits to dry on the components. The ratchet should be autoclaved in the disassembled state and reassembled immediately before use.

Schematic diagram of the handle REF 13-311430 (can be disassembled)

- After use the instrument should be disassembled into its individual parts – no tool is required for disassembly.



- Pre-clean the individual parts under running cold water using a soft brush. Do not allow blood residue and other adhering deposits to dry on the components. The handle should be autoclaved in the disassembled state and reassembled immediately before use.

Schematic diagram of the handle REF 13-311431 (cannot be disassembled)



- Pre-clean the instrument under running cold water using a soft brush. Do not allow blood residue and other adhering deposits to dry on the handle. The handle should be thoroughly cleaned manually using an ultrasonic cleaner before mechanical cleaning.
- Manual cleaning including ultrasonic cleaner (see above) and mechanical cleaning should be performed in sequence.

Warnings

We do not know of any warnings; provided the instructions for use are followed for the products to be used as well as the corresponding disinfection and cleaning agent.

SIMPLADENT GmbH reserves the right to change the design of the products and components or their packaging, adapt instructions for use as well as renegotiate prices and delivery conditions. Liability is limited to the use of defective products. Any further claims are excluded.

Further information about the preparation of medical products is available in the Internet at www.rki.de or www.a-k-i.org.

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contain any ingredients.

The disinfectant therefore has to have been thoroughly removed. The recommended threshold limits of the ingredients for drinking water and steam condensate are specified in EN 285.

Sterilisation using hot-air sterilizers and / or glass bead sterilizers is not advised, as the high temperatures blunt the cutting surfaces of the drills.

Instruments should be sterilised in the trays recommended by the autoclave manufacturers if there is not a system-specific instrument tray available.

Storage

After sterilisation, the instruments must be stored dry and dust-free in the sterilisation packaging. The instruments should also be protected against sunlight and heat. The maximum storage period (expiry date) depends on several factors and must be determined and validated by the user.

Information on handling multi-part instruments:

Multi-part instruments must be disassembled before sterilisation. Please note the schematic diagram below.

RAT2: Unscrew the cover screw and remove the push-rod. The push-rod and ratchet housing (inner and outer) must be thoroughly cleaned and then dried. The individual components of the ratchet are shrink-wrapped together in a sterilisation bag and sterilised. Ensure that the paper side of the sterilisation bag is placed so that the water vapour can escape and that the ratchet or its parts are not lying in water. After sterilisation, - generally just before the beginning of implant placement, the ratchet should be thinly lubricated using a silicone oil and reassembled. The function of the ratchet should then be checked before beginning surgery.

Legend

Read instructions

Expiration date

Gamma-sterilized

Only use once

Do not re-sterilize

Non sterile

Catalogue number

LOT Charge number

Keep in a dry place

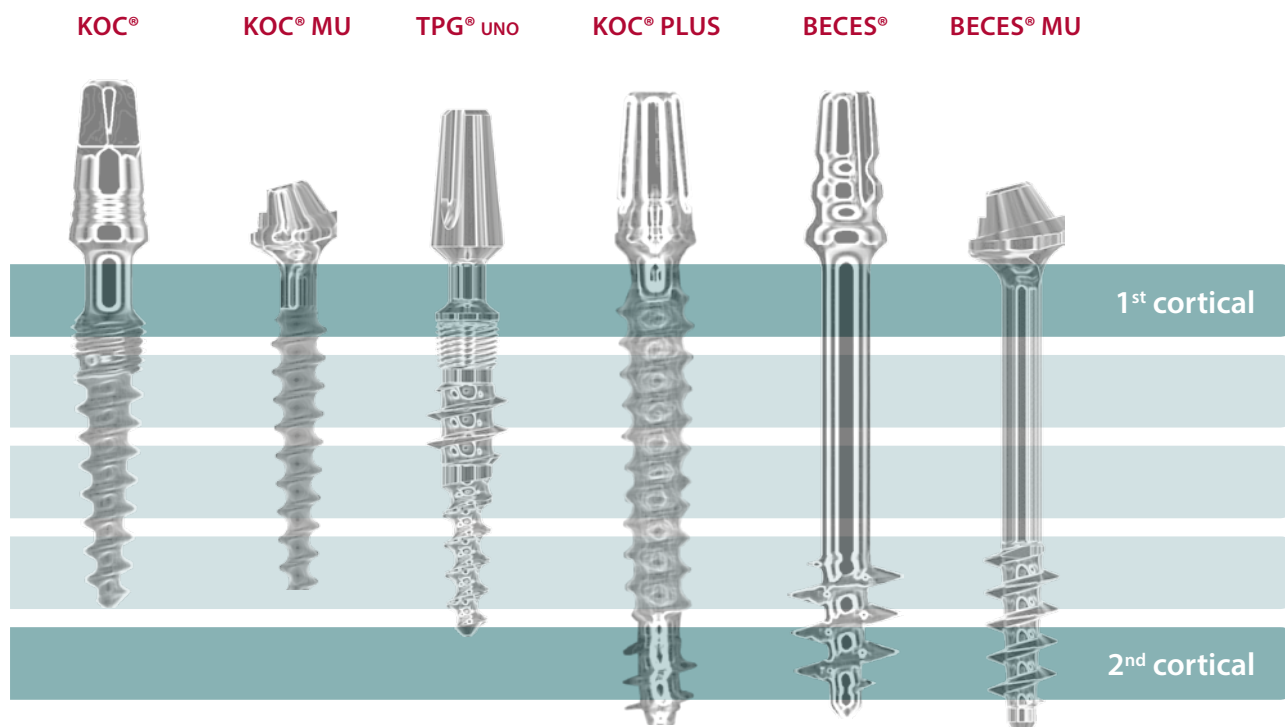
Store tightly keep closed

Temperature range from -5 °C to 25 °C

Do not use if packing is damaged

Manufacturer

13-0001-03_V002



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PLEASE CHECK THE VALID PRICE LIST OF YOUR LOCAL DISTRIBUTOR

 **SIMPLADENT®**

CE 0029

Basal implants (BECES, KOC Plus, TPG uno) may be inserted and serviced only by qualified personnel with valid authorization by the manufacturer (pursuant to legislation on the installation, use and maintenance of medical devices). See <http://implantfoundation.org/en/consensus-papers>
We are certified DIN EN ISO 13485.

The product dimensions shown in this catalogue are different from the reality. They also may be different from the reality, because and if the product has been further developed.

In case that implants would be reprocessed (cleaned, resterilized) infections could occur, because no validated procedures for reprocessing are available in the dental office.

Symbols on the pack:



Catalogue No.



Production No.



Sterilized by
gamma radiation



Nonsterile



Intended for use
by dentists or
surgeons only



Single use
product



Instruction
for use



Expiry date



Store
in a dry
place



Temperature
range from
-5°C to 25°C



Store tightly
keep closed



Do not use if
packing is
damaged



Do not
resterilize



Manufacturer



Production
date