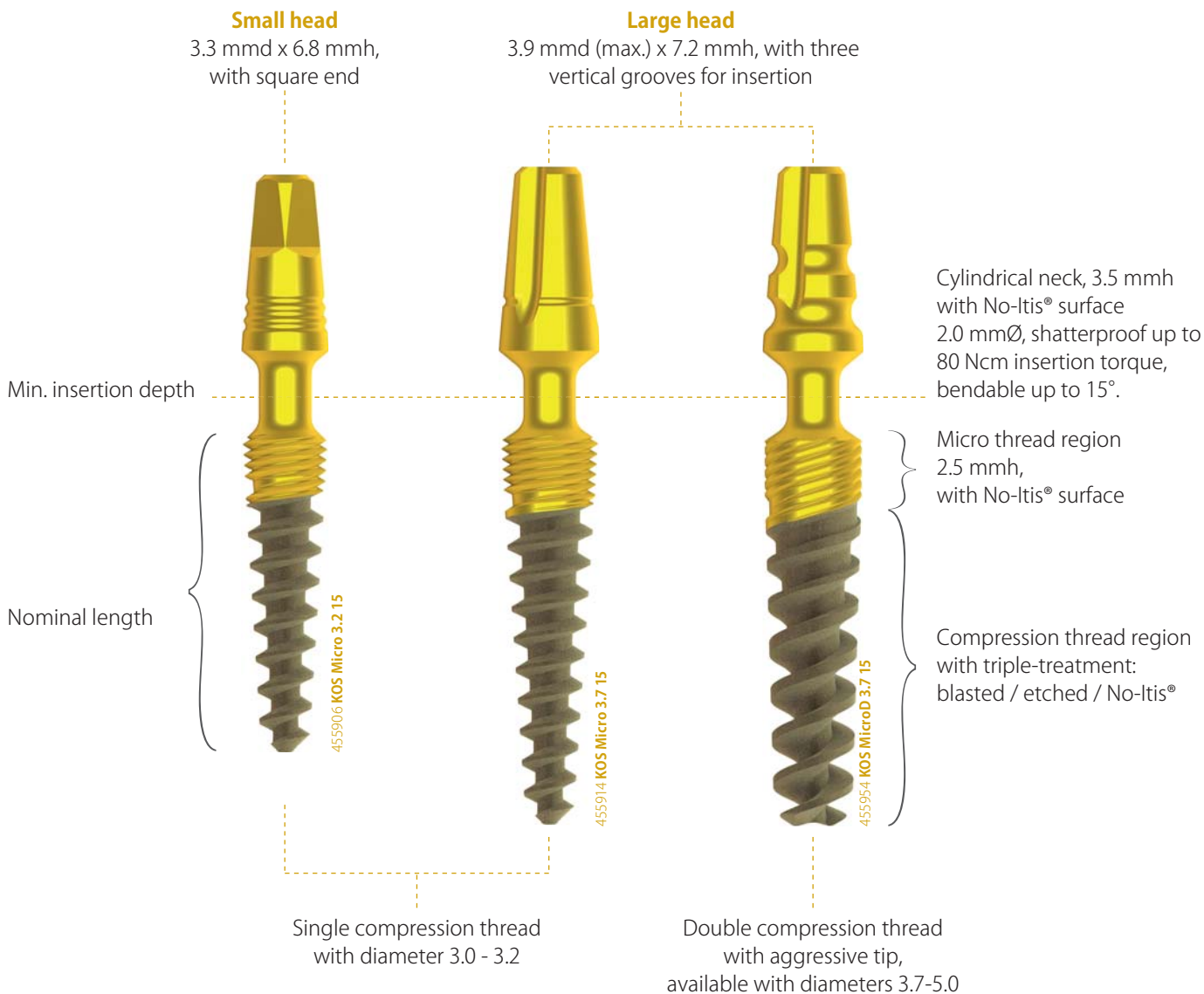


IMPLANT SYSTEM KOS[®] MICRO



IHDEDENTAL 



NO-ITIS® - THE INNOVATIVE IMPLANT SURFACE

Implants with the new No-Itis®-surface are double-sandblasted and then etched under heat. As final step an electro-chemical staining will be applied and this last step of the surface preparation smoothens small wells (up to around 5 Micrometers) in the surface. Smooth implants (e.g. systems BCS, BOI) receive the final surface treatment without any prior sandblasting or etching. This surface, which is new in dental implantology, is extremely clean and keeps bacteria off the the implant. This surface has been proven successful in traumatology for a long time. The reduction of roughness on the surface helps preventing peri-implantitis. During the insertion of the implants the smoother surface reduces heat and thereby less torques is necessary and less heat develops. All other parameters like the drilling sequence etc. remain unchanged. A minimal difference of the displayed No-Itis® implant color between different charges is caused by the production process and has no influence on the quality of the surface.

MATERIAL

Ti6AL4V ELI, also called „Grade 5“, is a purified version of the conventional 6/4 Ti-Alloy. It is used for more than 50% of all human metallic implants. The material features superb mechanical and chemical properties, and it is very resistant against corrosion. Also regarding biocompatibility and the support of cell-growth this specific titanium-alloy shows advantages compared to pure titanium. For these reasons the material is used so widespread. Ti6AL4V ELI provides a 25% higher stability compared to pure titanium.

FUNCTION OF THE IMPLANT

The single piece implant **KOS® Micro** has been designed for Immediate Loading and may be used in this protocol if the circumstances allow it. The polished endosseous section below the neck has a cylindrical shape. This allows a tight seal of the cortical and increases the stability. The bone is protected against infection. The conical thread compresses the spongy bone, leading to very good stability in this part of the bone.



Note: The polished micro-tread must be inserted completely below the level the bone. Even the cylindrical neck should reach 1 mm deep into the bone. Therefore the implant must be chosen in a way, that at least 1.5 mm more vertical bone must be available than the nominal length of the implant.

Example: For KOS Micro 3.7 15, 17 mm vertical bone must be available. If in doubt between two lengths, the shorter implant must be chosen to allow for a sufficient insertion depth.

DRILL SEQUENCE

For the pilot drill the drills of the KOS® system may be used. Except in the very dense bone of the lower jaw the pilot drill with BCD1 or DOS1 is usually sufficient.

INSERTION

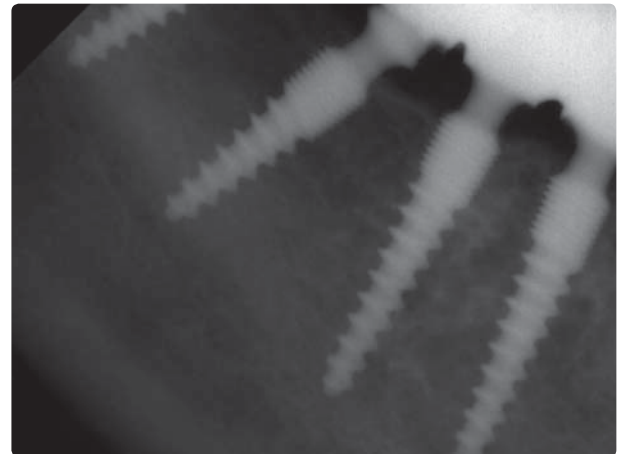
The easiest way to insert the implant is by using the handgrip (REF 311430) and the adapter (REF 900037). Together with the insertion tools (small, medium, large) the ratchet RAT2 or torque wrench TW2 are used. Max. torque is 80 Ncm

The implants are provided with abutment-heads in two different sizes:

- diameter 3.0 mm and 3.2 mm feature a small abutment-head, which fits even into gaps between lower front teeth
- diameter 3.7 mm, 4.1 mm and 5.0 mm are supplied with large abutment heads. This head allows an easy and fast prosthetical treatment

All **KOS® Micro** implants provide circular grooves on the abutment head. These grooves fit to 1.5mm Titanium wires. This enables direct intra-oral welding of the titanium wire into the grooves. This way the implants are splinted immediately and the temporary bridge may be fabricated without wire-reinforcement. 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.

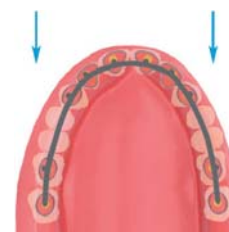
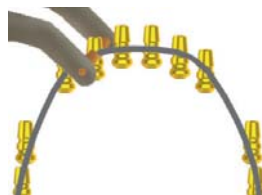
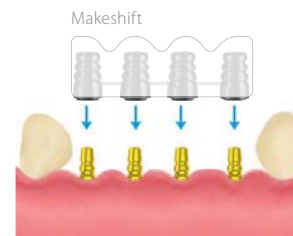
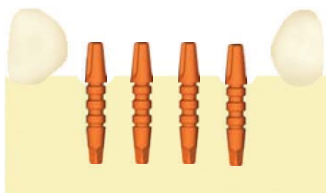
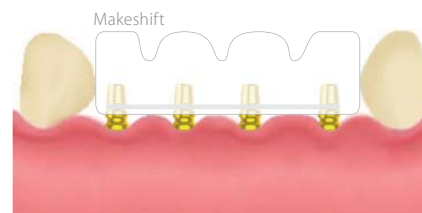
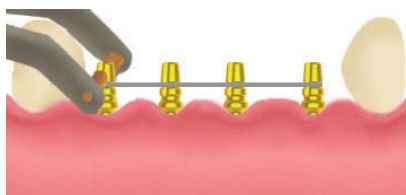
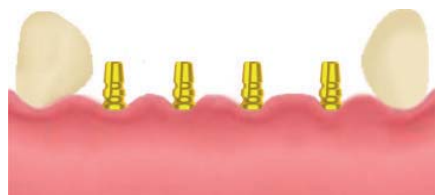
*Along **KOS® Micro** implants even after years almost no crestal bone loss is visible.*

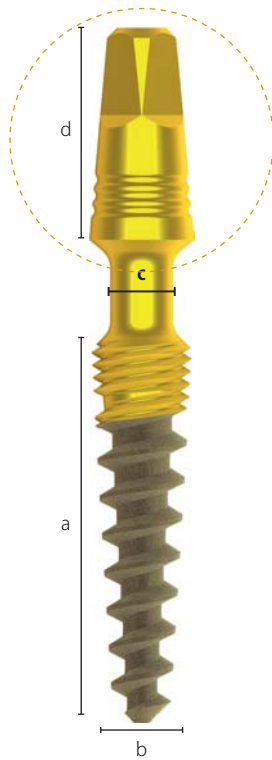


WIRES FOR INTRA-ORAL SYNCRISTALLIZATION



Description	Material	Ø	REF	Price cat.
Titanium wire (5 pieces á 15cm / pack)	TiGr.2	1.5 mm	462001	B
Titanium wire (5 pieces á 15cm / pack)	TiGr.2	2.0 mm	462002	B
Titanium wire (5 pieces á 15cm / pack)	Ti6Al4V	2.0 mm	462003	B





KOS® Micro with small head for the front teeth area and narrow gaps

- a) enossal length: 10 - 15 mm
- b) max. enossal Ø head small: 3.2 mm
- c) neck Ø: 2.0 mm
- d) height of head: 6.8 mm

Material: Ti6Al4V ELI

Delivery incl. lab set consisting of REF 462111, REF 462029 and REF 462088.

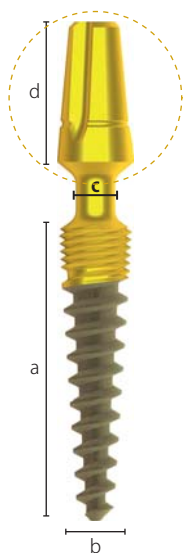


Description	Enossal Ø	Length	Head	Neck Ø	Drill **	REF	Price cat.
KOS Micro 3.0 10*	3.0 mm	10 mm	small	2.0 mm	DOS 1 or BCD 1	455900	F
KOS Micro 3.0 12*	3.0 mm	12 mm	small	2.0 mm	DOS 1 or BCD 1	455901	F
KOS Micro 3.2 12*	3.2 mm	12 mm	small	2.0 mm	DOS 1 or BCD 1	455905	F
KOS Micro 3.2 15*	3.2 mm	15 mm	small	2.0 mm	DOS 1 or BCD 1	455906	F

Additional lengths and diameters can be found in our system application KOS®/BCS® (REF6701)

* Max. insertion torque for these implants is 80 Ncm.

** It might be necessary in very hard bone to carry out a cylindrical drill hole with twistdrill 2.5 mm up to a depth of 2.5 mm.



KOS® Micro with large head for all applications

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

Material: Ti6Al4V ELI

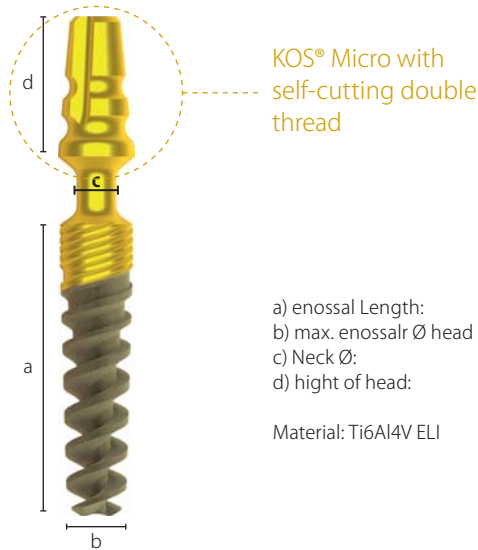
Delivery incl. lab set consisting of REF 462111, REF 462030 and REF 462086.



Description	Enossal Ø	Length	Head	Neck Ø	Drill **	REF	Price cat.
KOS Micro 3.7 6	3.7 mm	6 mm	large	2.0 mm	DOS 2 or BCD 2	455910	F
KOS Micro 3.7 8	3.7 mm	8 mm	large	2.0 mm	DOS 2 or BCD 2	455911	F
KOS Micro 3.7 10	3.7 mm	10 mm	large	2.0 mm	DOS 2 or BCD 2	455912	F
KOS Micro 3.7 12	3.7 mm	12 mm	large	2.0 mm	DOS 2 or BCD 2	455913	F
KOS Micro 3.7 15	3.7 mm	15 mm	large	2.0 mm	DOS 2 or BCD 2	455914	F
KOS Micro 4.1 8	4.1 mm	8 mm	large	2.0 mm	DOS 3 or BCD 3	455920	F
KOS Micro 4.1 10	4.1 mm	10 mm	large	2.0 mm	DOS 3 or BCD 3	455921	F
KOS Micro 4.1 12	4.1 mm	12 mm	large	2.0 mm	DOS 3 or BCD 3	455922	F
KOS Micro 4.1 15	4.1 mm	15 mm	large	2.0 mm	DOS 3 or BCD 3	455923	F
KOS Micro 5 10	5 mm	10 mm	large	2.0 mm	DOS 5	455925	F
KOS Micro 5 12	5 mm	12 mm	large	2.0 mm	DOS 5	455926	F

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

** It might be necessary in very hard bone to carry out a cylindrical drill hole with twistdrill 2.5 mm up to a depth of 2.5 mm.



KOS® Micro with self-cutting double thread

- a) enossal Length: 6 - 15 mm
- b) max. enossalr Ø head large: 3.9 mm
- c) Neck Ø: 2.0 mm
- d) hight of head: 7.2 mm

Material: Ti6Al4V ELI

Delivery incl. lab set consisting of REF 462111, REF 462030 and REF 462086.



Description	Enossal Ø	Length	Head	Neck Ø	Drill **	REF	Price cat.
KOS MicroD 3.7 6	3.7 mm	6 mm	large	2.0 mm	DOS 2 or BCD 2	455950	G
KOS MicroD 3.7 8	3.7 mm	8 mm	large	2.0 mm	DOS 2 or BCD 2	455951	G
KOS MicroD 3.7 10	3.7 mm	10 mm	large	2.0 mm	DOS 2 or BCD 2	455952	G
KOS MicroD 3.7 12	3.7 mm	12 mm	large	2.0 mm	DOS 2 or BCD 2	455953	G
KOS MicroD 3.7 15	3.7 mm	15 mm	large	2.0 mm	DOS 2 or BCD 2	455954	G
KOS MicroD 4.1 8	4.1 mm	8 mm	large	2.0 mm	DOS 3 or BCD 3	455957	G
KOS MicroD 4.1 10	4.1 mm	10 mm	large	2.0 mm	DOS 3 or BCD 3	455958	G
KOS MicroD 4.1 12	4.1 mm	12 mm	large	2.0 mm	DOS 3 or BCD 3	455959	G
KOS MicroD 4.1 15	4.1 mm	15 mm	large	2.0 mm	DOS 3 or BCD 3	455960	G
KOS MicroD 5 10	5 mm	10 mm	large	2.0 mm	DOS 5	455963	G
KOS MicroD 5 12	5 mm	12 mm	large	2.0 mm	DOS 5	455964	G

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

** It might be necessary in very hard bone to carry out a cylindrical drill hole with twistdrill 2.5 mmd up to a depth of 2.5 mm.

Impression and laboratory accessories for KOS® MICRO

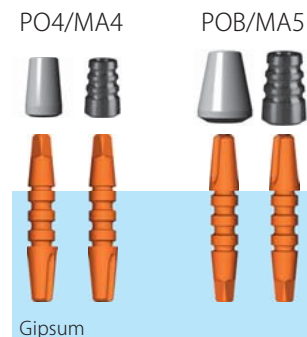
for small head



for large head



Code REF	TSPA 4 (POM) 462029	PO4 462088	IA4/IAU (plastic) 462111	PA X 462136	POB 462086
	Impression coping, castable, Pack of 5	Castable abutment, Pack of 5	Double analogue, Pack of 5	Castable abutment, Pack of 5	Castable part, Pack of 5
Price cat.	B	B	B	A	B

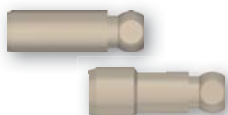


TITANIUM CROWN BASE



Description	Material	REF	Price cat.
Titanium-cap, radio-opaque MA4	Ti6Al4V, weldable	462090	B
Titanium-cap, radio-opaque MA5	Ti6Al4V, weldable	462093	B

SCAN BODY



Description	Material	Systems	REF	Price cat.
Scanbody-4	Peek	KOS, BCS	462054	B
Scanbody-5	Peek	KOS, BCS	462055	B

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

Surgical steel, color coded, depth coded and autoclavable. The drill is marked with laser depth markings. Use with 3.000 - 5.000 UpM at intermittend drilling engineering and good cooling. Due to the extremely high cutting performance no pressure is necessary.

-55 %
Hitze / Heat



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

	Description	Type	Length	REF	Price cat.
	Placement aid IT2 S BCS	Short, for large head. Use with RAT2 and TW2.	7 mm	900038	E
	Placement aid IT2 BCS	Medium, for large head. Use with RAT2 and TW2.	19 mm	900030	E
	Placement aid IT2W	For large head. Use with Winkelstück.	23 mm	900039	C
	Placement aid IT K	Long, for small head. Use with RAT2 and TW2.	20 mm	462320	C
	Placement aid ITS K	Short, for small head. Use with RAT2 and TW2.	7 mm	462322	C
 	Placement aid ITWH K *	Contra-angle/hex. For small head. Use with angle piece.	23 mm	462323	C
	Placement aid ITW K	For small head. Use with angle piece.	23 mm	462331	C
	Torque wrench TW2	10 - 70 Ncm		425402	S
 	Adapter AHB	For large head, use with handgrip.	70 mm	900037	F
 	Adapter AHK	For small head, use with handgrip.	70 mm	462319	B
	Handgrip	Can be disassembled and cleaned manually	110 mm	311430	V
	Handgrip	For mechanical processing in the ultrasonic bath.	110 mm	311431	V

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

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

PREPCAPS



Description	Max. height	Max. Ø	For head	Type	REF	Price cat.
PCK4 Prepcap	7 mm	5.8 mm	small	straight	462140	C
PCK5 Prepcap	7.5 mm	6.4 mm	large	straight	462141	C
PCK4-15 Prepcap	8.9 mm	5.6 mm	small	15°	462142	C
PCK5-15 Prepcap	8.9 mm	5.5 mm	large	15°	462143	C
PCK4-25 Prepcap	9.4 mm	5.7 mm	small	25°	462144	C
PCK5-25 Prepcap	9.5 mm	6.1 mm	large	25°	462145	C
Prepcap massive reverse cone large	11 mm	7 mm	large	conical	462148	C
Prepcap massive reverse cone small	7.8 mm	4 mm	small	conical	462149	C
Prepcap stepless No. 1	7.8 mm	4 mm	small	straight	462150	C
Prepcap stepless No. 2	9.5 mm	5 mm	small	straight	462151	C
Prepcap stepless No. 3	11.5 mm	5.5 mm	small	straight	462152	C
Prepcap stepless No. 4	13.5 mm	5 mm	small	straight	462153	C
Prepcap stepless No. 5	8.4 mm	4.3 mm	small	15°	462154	C
Prepcap stepless No. 6	9 mm	4.3 mm	small	25°	462155	C

Material **Zirkon**, color **A2**



Size of the closed tray
B = 90 mm / L = 195 mm / H = 45 mm

Description	Length	REF	Price €
BCD 1 Adapter	100 mm	310511	
Twist Drill 2.0	100 mm	310512	
Twist Drill 2.5	100 mm	310513	
Adapter RA	60 mm	310530	
Adapter AHK	70 mm	462319	
Adapter AHB	70 mm	900037	
Adapter IT MU 15	60 mm	418167	
Handgrip, dismountable	110 mm	311430	
Handgrip tray (empty)		60043	69,90
Handgrip tray (with content)		S60043	639,00

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We are certified DIN EN ISO 13485, and annex II of EEC Directive 93/42 EWG (2007).

The relative dimensions of parts on the pictures in this prospectus may differ from the reality (for technical reasons, or because items may have been further developed). KOS® is a registered trade-mark.

If implants are cleaned and re-sterilized in the dental office, the danger of creating infections is immanent, because in a dental office no processes for validated cleaning are available.

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Symbols on the pack



CE 0029

REF 11-0018-05_KOS_Micro_EN_V036-06/15

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