IHDEDENTAL*



Company building and production site of **Dr. Ihde Dental AG** in Gommiswald / Switzerland

YOUR DEMAND IS OUR DRIVE

Dr. Ihde Dental has been a reliable partner for over 60 years providing a wide range of implant systems and consumables. We supply dentists and dental technicians with precisely coordinated materials and systems, which are easy and reliable to use. We always ensure high quality and an excellent price-performance ratio so that you can guarantee allround treatment for your patients that is cost-effective and highly efficient. The following catalog gives you an overview and all the essential information about our implant systems. You can also contact us personally any time using the phone numbers provided. Further information can be found on our websites:

www.implant.com II www.ihde-dental.de II www.ihde.com

The company was founded in 1954 in Berlin by the dental technician Klaus Ihde. The company relocated to Bavaria in the 1960s. At the end of the 1980s, Dr. Ihde Dental GmbH (Germany) and Dr. Ihde Dental AG (Switzerland) were formed from the Klaus Ihde retail company. Ihde Dental is now represented in four locations in Europe and over 45 countries. The company group is one of the most innovative implant companies in the world – based on new developments and patents issued or pending.

The core activities of Ihde Dental are the development, procurement and distribution of medical products. We use a large number of suppliers in consumables, but we have produced implants in our own factory for many years. All components are manufactured quickly, precisely and economically thanks to state-of-the-art production technology and well-equipped machinery.

Our partners

Users and customers provide us with many new ideas and excellent suggestions. Collaboration with our customers is extremely important to us. Contact us at any time if you have any improvements or questions. Your ideas and opinions help us all to meet the daily wishes of patients to a greater and better extent. We also put the needs of the patient first..

Our market performance and work ethic

Since it was founded, the company has focused on innovative ideas and advanced technology, premium quality, an excellent priceperformance ratio, optimal patient and user friendly products and durability. Our range combines the latest findings from research and practices in many countries around the world.

Customer orientated to us means – available for you!

- We provide training courses, refresher courses and user advice.
- We provide customers with comprehensive and technically sound advice.
- We also visit you in your practice upon request.

Please call us to arrange an appointment or send us an email.



Dr. Ihde Dental AG

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Dr. Ihde Dental GmbH

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CONTENT

KOS® implants	б	Insertion tools	39
NO-ITIS® LASER – The new surface generation	7	Handgrip	40
KOS® instruction for application	10	Handgrip tray	41
KOS® Classic and Classic X implants	19	Instrument tray for KOS® and BCS®	42
KOS® B implants with small head for bridges	22	Drillstop tray	43
Impression taking and laboratory accessories	24	Starter tray	43
KDS bone expanding screws	26	KOS® implantations	44
KOS® PLUS implants	27	KOS® M and Micro implants	45
Example of use of KOS® Plus implants	29	Material / functionality / drilling procedure / insertion	46
KOS® TX implants	30	KOS® M implants with small abutment head	47
Insertion tools	32	KOS® Micro implants with large abutment head	49
Impression taking and laboratory accessories	32	Impression taking and laboratory accessories	50
KOS® Multi-Unit implants	33	Scanbodies	51
Accessories KOS® Multi-Unit implants	35	Instruments and tools	52
Application of KOS® Multi-Unit implants	36	Overview drilling depth and max. working length	53
KOS® K implants	37	Reprocessing of tools and drills	54

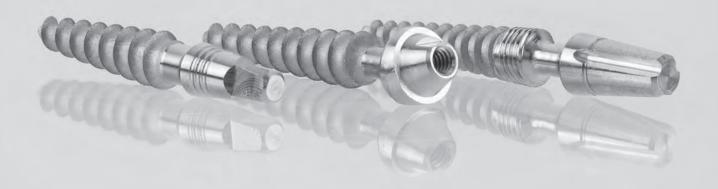
APPLICATION AREAS OF THE ENDOSSEOUS DENTAL IMPLANT SYSTEM KOS®

Suitable for crowns, bridges and bars. With the correct surgical procedure and good bone quality, the compression screws design permits to incorporate the restoration in an immediate loading protocol (incorporation of the prosthesis within a maximum of three days). Today, **KOS**[®] implants are routinely used for immediately loaded bridge constructions. The single-piece design saves costs, effort and prevents the problem of screw loosening. In extraction cases, **KOS**[®] and **BCS**[®] are combined.

The prescribed or recommended tightening torques for implants, abutments and screws can be found on our website:

www.implant.com/en/downloads

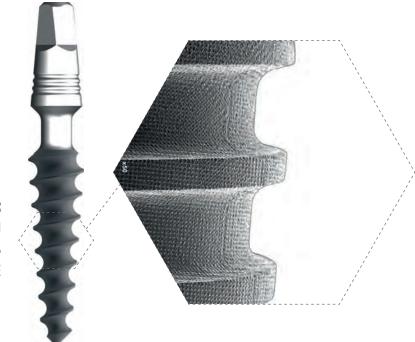




No-Itis° LASER – THE NEW SURFACE GENERATION

The new surface treatment for Dr. Ihde Dental AG implants is created with the latest generation of robotic tools for laser ablation. This new technology of high precision creates roughness in the implant through a mesh of hemispherical micrometric pores, with a defined, always identical size and shape and with a symmetrical distribution.

The result is a more adequate topography, which provides the most suitable conditions for the osseointegration of the implant, but at the same time it is, and behaves like, a smooth surface at a micrometric (cellular) level. This means that while bone grows well on this surface, the adhesion of bacteria to the same surface is significantly reduced.



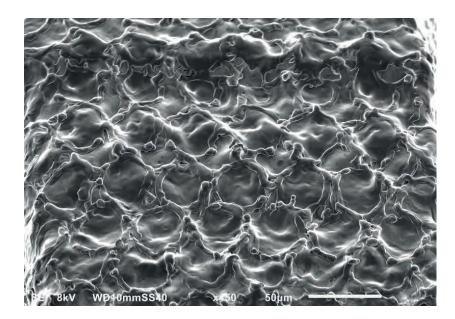
No-Itis® LASER A SMOOTH SURFACE THAT, IN CONTACT WITH THE BONE, IS SHAPED LIKE A ROUGH SURFACE

In the 1990s, rough surfaces on dental implants became increasingly popular – while the risk of bacterial adhesion was blissfully disregarded. This caused the appearance of a new disease, periimplantitis, which severely compromises the survival of the implants in the long term and which, as a result, requires a renewed intervention on a dissatisfied patient, wasting time and increasing costs. Surfaces like that are not patient-friendly!

The use of the laser technology we developed allows us to create an exactly defined micromorphology on the treated surface, leaving no residue and without altering the properties or composition of the titanium alloy. This creates a mesh of very perfect cavities in terms of the (hemispherical) shape and its dimensions (of 20 to 30 μ m), as well as their distance and distribution. The surface of these cavities as well as the retentions created by laser ablation are smooth as experienced by the bacteria, a characteristic that is assumed to improve the resistance of

the implant against bacterial colonisation. This characteristic might also radically limit the incidence of periimplantitis. In contact with the bone, however, the laser-ablated surface behaves like a rough surface. Rough implants (e.g., KOS[®], Hexacone[®]) and smooth implants (e.g., BCS[®], KOS[®]) therefore have the same recovery rate.

No-Itis® LASER THE SURFACE THAT INCREASES SURVIVAL RATIOS



Definition
Smooth
Machined
Moderately rough
Rough
No-Itis [®] Laser
Smooth

No-Itis[°] LASER

According to the classification of surface roughness by Albrektsson and Wenneberg, the Ra value corresponds to a moderately rough surface, and our lasered surface actually has the characteristics and many of the advantages of a smooth implant surface. The NO-ITIS® LASER surface allows the adhesion of the uniform and exten-

THE MOST ADVANCED SURFACE A SAFE ANSWER AGAINST PERIIMPLANTITIS, MAINTAINING THE OSSEOINTEGRATION LONG TERM

ded fibrin clot, which then leads to the formation of woven bone. The distribution and size of the concavities favours the accommodation and activity of the osteoblasts, promoting effective osseointegration

STABLE FIBRIN MESH

With the NO-ITIS® LASER, as with traditional rough surface, fibrin filaments are almost exclusively attached to surface peaks forming bridges between them (distance osteogenesis). On the NO-ITIS® LASER surface, fibrin forms as a well developed and defined grid mesh even within the concavities, which favours colonisation of the osteogenic cells directly on the surface of the implant (contact osteogenesis).







Rough surface

Machined surface



Osteogenesis of contact



Distant osteogenesis



Improved contact osteogenesis

No-Itis[®] Laser Surface

MAXIMUM CONTACT OSTEOGENESIS

Thanks to the good cell adhesion, a normal fibrin mesh can be created, adapted and extended on the surface of the NO-ITIS® LASER. This process activates the formation of A osteonal bone, also directly in contact with the implant.

No-Itis® LASER A UNIQUE SURFACE

No-Itis[®] LASER

THE IDEAL SURFACE FOR IMMEDIATE OR EARLY LOADING

RAPID OSSEOINTEGRATION

The perfectly symmetrical and reproducible topography of the NO-ITIS® LASER surface attracts a greater number of osteogenic cells, allowing them to settle and to proliferate on the implant

surface in a stable and uniform manner. This process activates the formation of bone directly in contact with the implant, resulting in a more dynamic and favourable osseointegration, with greater BIC (Bone implant Contact), and it allows true bone engineering.

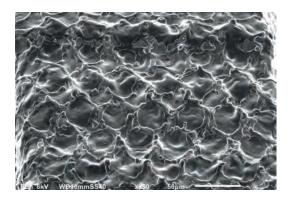
- Smooth implant surface
- Less bacterial adhesion

- Increased fibrin adhesion
- More contact osteogenesis on a larger surface

➡ PERFECT OSSEOINTEGRATION

No-Itis® LASER – A CLEAN SURFACE

Unlike standard-surface implants (sandblasting and etching, or blasting and anodising), the implants with the NO-ITIS® LASER surface have a completely clean surface without residues nor contaminants. Due to this modern manufacturing process, no residues of jet particles or traces of the chemicals (acids) or anodisation (oxides) used in the etching process can come into contact with the implant. Eliminating the anodisation also eliminates the risk that the top layer of the coloured implant dissolves mechanically.



No-Itis® LASER A CLEAN SURFACE

No-Itis® LASER – THE IDEAL SURFACE FOR BONE CONTACT

The total cleanliness of the NO-ITIS[®] LASER allows the endosseous implant surface to be increased without having to accept the disadvantages of all the traditional methods for surface roughening.

This new surface generation can coexist for some time with others developed by Ihde Dental AG, while regularization of production and stocks, and therefore any reference may not be available on the new No-Itis[®] Laser surface.

LOWER RISK OF INFECTIONS

PREPARATORY WORK

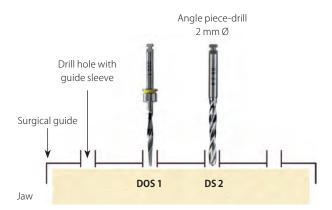
KOS®

Get your lab to make a drilling template with the specified drill holes for the marking hole.

For the pilot hole, use **DOS 1** or **BCD 1** (yellow) as the primary reamer. Prepare the implant bed with the form drills at full length.

Please use an intermittent drilling technique with good NaCl cooling. If necessary, the laboratory can insert guide sleeves can in the drill holes (code **BFH**) through which the precise direction of drilling can be set.

If, due to high drilling resistance in hard bone, it is difficult to reach the complete drilling depth with **DOS 1**, the correct depth can be reached with the cylinder drill **DS 2** (diameter 2 mm).



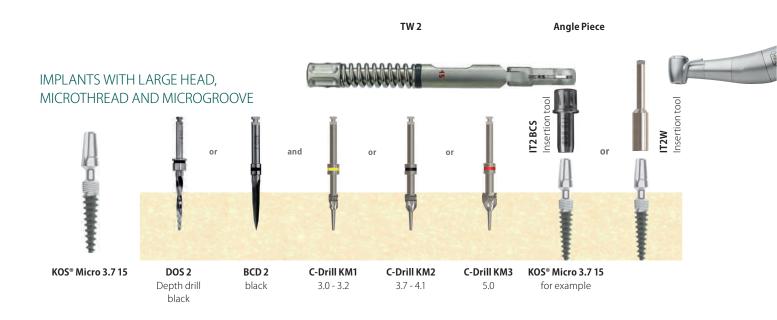
SURGERY

1. Drilling and preparation/compaction of the implant site

DRILL SEC		al / hard bone		DRILL SEC	UENCE soft b	one	
Pilot drill	Form drill	KDS	Implant	Pilot drill	Form drill	KDS	Implant
		KDS 3.0	KOS 3.0				KOS 3.0
	DOS 2	KDS 3.2	KOS 3.2			KDS 3.0	KOS 3.2
DS 1		KDS 3.7	KOS 3.7	DOS 1		KDS 3.2	KOS 3.7
	DOS 3 (4)	KDS 4.1	KOS 4.1		DOS 2	KDS 3.7	KOS 4.1
	DOS 5	KDS 5.0	KOS 5.0		DOS 3 (4)	KDS 4.1	KOS 5.0

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





IMPLANTS WITH SMALL HEAD AND MICROTHREAD IT W K Insertion tool IT K Insertion tool ĩ or and N N KOS® M 3.0 12 DOS 2 C-Drill KM1 KOS® M 3.0 12 Depth drill 3.0 - 3.2 for example black

TW 2

Angle Piece

DOS	2/BCD 2	Direction and depth calculation; alternatively BCD 1 "Pathfinder" drill.
Pilot	drill DS 2	For use in hard bone in the cortical region only.
KDS		Prepare the implant bed in the maxilla stepwise using the appropriate bone-expanding screw and ratchet or motorized insertion tool. Maximum 40-45 Ncm. Remove the bone-expanding screw again.
KOS®	° B	To create the definitive implant cavity for KOS® B implants, it is imperative to use bone-expanding screws. These screws must be screwed to their full depth. They generate the compression and ensure that sufficient space is created for the implant thread in the cortical region.

All **KOS**[®] implants are used as compression screws. If possible, the hole should be created substantially thinner than the core diameter of the implant, since only in this way can good bone condensation be achieved. The minimum hole diameter depends on the bone density. For this reason, it is not possible to specify drill sequences that can be used favorably for all bone qualities. As a rule, it is necessary to drill much less into the soft maxilla (e.g. the DOS1 drill only can be used for **KOS**[®] implants with diameter 3.0-5.0) than into the well-mineralized mandible, which requires the use of a drilling sequence adjusted to the bone density.

2. Implant packaging



Original packaging



Open the sealed cover at the lid. Remove the label and place it into the patients record.

3. Remove the implant from its packaging



The open pack contains the implant, mounted to a plastic holder. The pack also contains the lab-set.

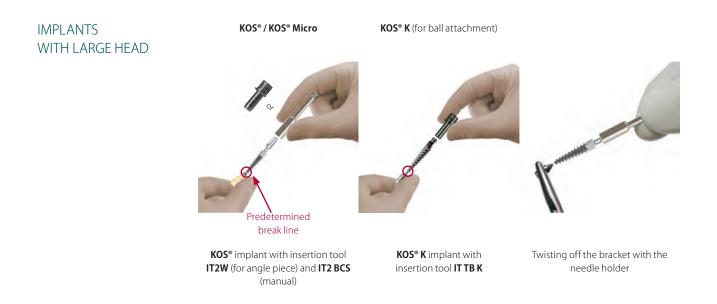


Remove the implant by holding onto the plastic holder

The implant is fixed to the holder by a break joint.

4. Handling

Hold the implant by the holder and place the insertion tool on the implant head. The endosseous implant surface must not be touched. Pull out the implant with the plug and then twist off the plug with the needle holder at the predetermined breaking point.



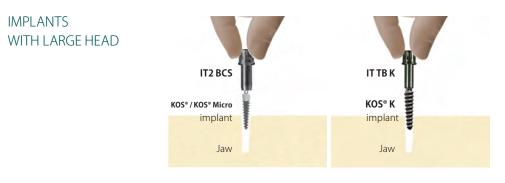
IMPLANTS WITH SMALL HEAD

KOS[®] (straight) / KOS[®] B (flexible)

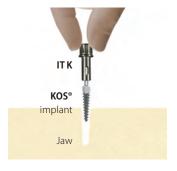


5. Insertion using manual tools

Insert the implant by hand until it is firmly seated in the jaw.



IMPLANTS WITH SMALL HEAD



14

6. Definitive implant insertion

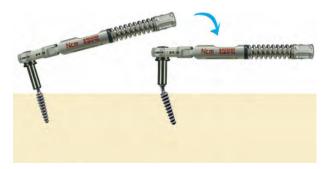
Using the ratchet, torque ratchet or contra-angle, screw the implant clockwise into the cavity. With **KOS® B**, the use of the torque ratchet is mandatory. The endosseous (blasted) part of the implant must be completely covered by bone. The polished implant neck is located in the mucosa. We recommend screwing the implant into the bone up to 1 mm deeper into the implant neck.

IMPLANTS WITH LARGE HEAD



The head of the bendable **KOS® 3.0 & 3.2**, **KOS® Micro (all diameters)** and **KOS® B** screws can be bent into the desired position after insertion with the aid of the mounted insertion tool and ratchet.

Maximum bend: approx. 15°. Only one bending operation may be performed. In the maxilla, the motorised insertion tool should be used due to its better implant guidance during insertion.



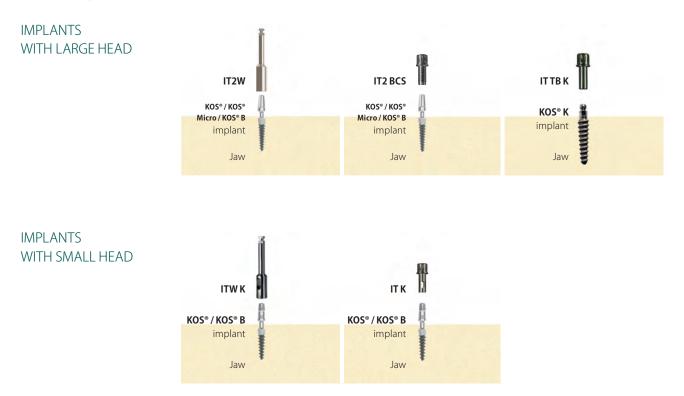


IMPORTANT NOTE

KOS B[®] implants have a predetermined breaking point integrated into the head. If the preparation with bone-expanding screws was not performed sufficiently, high screwing forces can cause the upper head portion to be torn off.

So that the implant can be screwed out again, an additional square is milled below the breaking point, into which the emergency tool **Tool E** can be inserted. The **Tool E** instrument may only be used to remove the implant.

7. Removing the placement aid from the implant



8. Result

All implant heads (except for the **KOS® K**) can be reshaped by grinding. The implants can be prosthetically supplied immediately if indicated. The definitive superstructure should be cemented within a few days. Immediate prosthetic splinting with a provisional bridge is recommended.

IMPLANTS WITH LARGE HEAD



IMPLANTS WITH SMALL HEAD



9. Impression

IMPLANTS WITH LARGE HEAD

Bridges



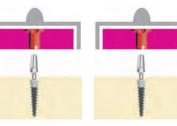
Attachment of the impression post **TSPA 5**, internally round, for **KOS**®



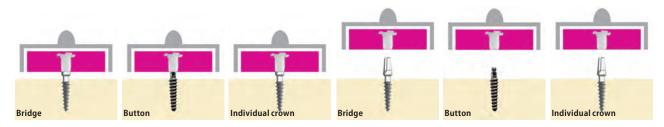
Attachment of the impression post **TSPA 5**, with anti-rotation protection, for **KOS® Micro**

Pressureless impression taking e.g. with **Safeprint®**

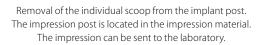
Individual crowns



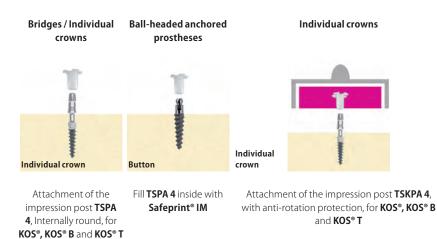
Removal of the individual scoop from the implant post. The impression post is located in the impression material. The impression can be sent to the laboratory.



Pressureless impression taking e.g. with Safeprint®



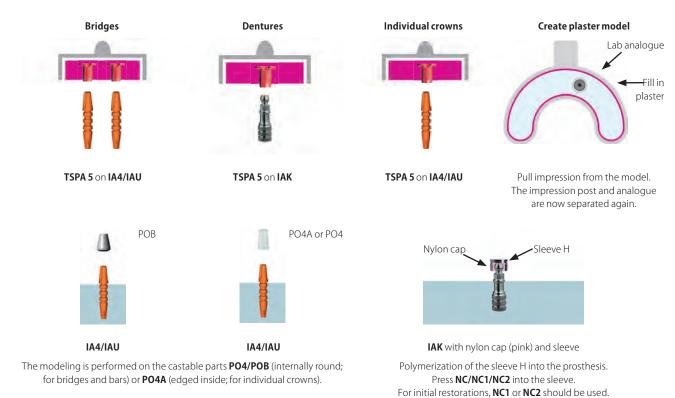
IMPLANTS WITH SMALL HEAD



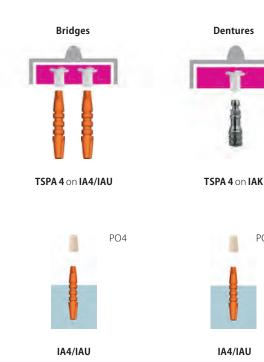
LABORATORY PROCEDURES

Attachment of the impression post onto lab analogues

IMPLANTS WITH LARGE HEAD



IMPLANTS WITH SMALL HEAD



The modeling is performed on the castable parts **PO4** (internally round; for bridges and bars) or **PO4A** (edged inside; for individual crowns).



TSKPA 4 on IA4/IAU

PO4 A

Fill in plaster

Create plaster model

Lab analogue

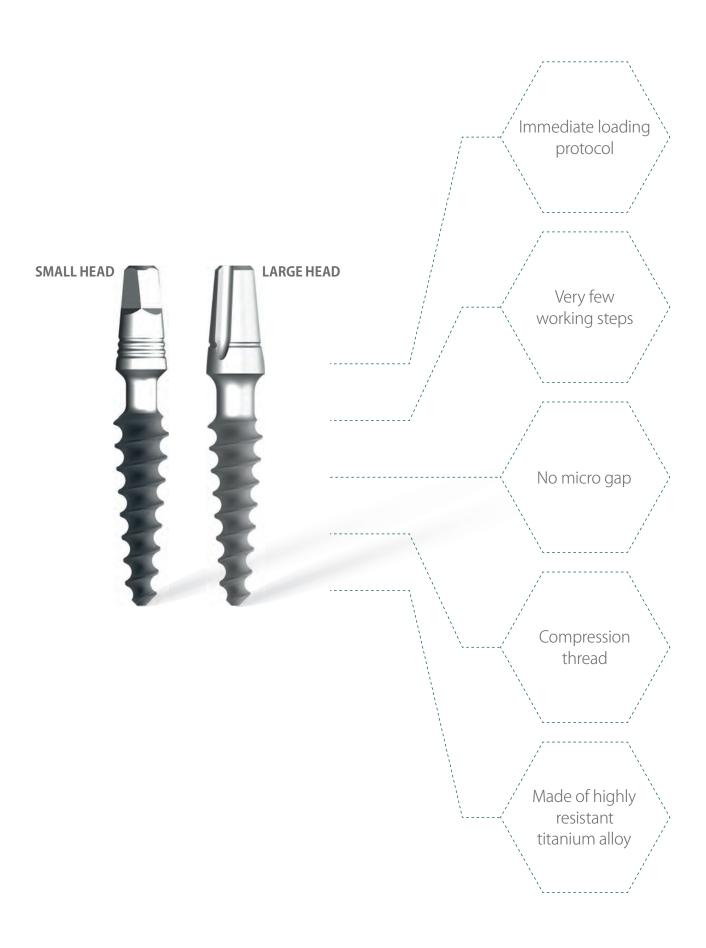
Pull impression from the model. The impression post and analogue are now separated again.



IAK with nylon cap (pink) and Sleeve Polymerization of the sleeve H into the prosthesis. Press NC/NC1/NC2 into the sleeve. For initial restorations, NC1 or NC2 should be used.



THE ADVANTAGES OF KOS° CLASSIC AND CLASSIC X IMPLANTS



20

KOS® CLASSIC IMPLANTS

Implants with small head for crowns and bridges.

	2	Description	Enossal Ø	Enossal length	Neck Ø	REF	Price cat.
T	g g	KOS 3.0 10	3.0 mm	10 mm	2.0 mm	455108	F
b		KOS 3.0 12	3.0 mm	12 mm	2.0 mm	455109	F
		KOS 3.0 15	3.0 mm	15 mm	2.0 mm	455110	F
1		KOS 3.2 12	3.2 mm	12 mm	2.0 mm	455111	F
c T		KOS 3.2 15	3.2 mm	15 mm	2.0 mm	455112	F
- I		KOS 3.7 6	3.7 mm	6 mm	2.5 mm	455106	F
2		KOS 3.7 8	3.7 mm	8 mm	2.5 mm	455107	F
d		KOS 3.7 10	3.7 mm	10 mm	2.5 mm	455114	F
ŭ S		KOS 3.7 12	3.7 mm	12 mm	2.5 mm	455115	F
5		KOS 3.7 15	3.7 mm	15 mm	2.5 mm	455120	F
		KOS 4.1 8	4.1 mm	8 mm	2.8 mm	455129	F
2		KOS 4.1 10	4.1 mm	10 mm	2.8 mm	455130	F
	e	KOS 4.1 12	4.1 mm	12 mm	2.8 mm	455132	F
	C	KOS 4.1 15	4.1 mm	15 mm	2.8 mm	455135	F
a) Abutment Ø	3.35 mm	KOS 4.1 17	4.1 mm	17 mm	2.8 mm	455136	F
b) Abutment height	6.8 mm	KOS 4.1 19	4.1 mm	19 mm	2.8 mm	455137	F
c) Neck length	3.5 mm	KOS 5.0 10	5.0 mm	10 mm	2.8 mm	455171	F
d) Enossal length	6 - 19 mm	KOS 5.0 12	5.0 mm	12 mm	2.8 mm	455172	F
e) Enossal Ø	3.0 - 5.0 mm	KOS 5.0 15	5.0 mm	15 mm	2.8 mm	455173	F
f) Neck Ø	2.0 / 2.5 / 2.8 mm						
g) Square AF	1.9 mm				P		-

(across flats) KOS 3.0 - 3.2

KOS 3.7 - 5.0

Max. insertion torque 50 Ncm Max. insertion torque 80 Ncm

INCLUSIVE

KOS® implants are delivered incl. lab-set REF 462353, consisting of

IA4/IAU 462111

Double analogue, plastic

Impression post castable, internally edged, for large head PA X

462136

Impression post castable, internally round, for small head **TSPA 4**



NOTE This is a standard lab-set and therefore contains parts for both **LARGE** abutment heads (**PA X**) and **SMALL** abutment heads (**TSPA 4**).



KOS® CLASSIC X IMPLANTS

c) Neck length d) Enossal length

e) Enossal Ø

f) Neck Ø

Large head for easy prosthetic handling.

	а	Description	Enossal Ø	Enossal length	Neck Ø	REF	Price cat.
1		KOS X 3.0 10	3.0 mm	10 mm	2.0 mm	455700	F
b		KOS X 3.0 12	3.0 mm	12 mm	2.0 mm	455701	F
		KOS X 3.0 15	3.0 mm	15 mm	2.0 mm	455702	F
		KOS X 3.2 12	3.2 mm	12 mm	2.0 mm	455710	F
c Ī 🕨		KOS X 3.2 15	3.2 mm	15 mm	2.0 mm	455711	F
Į J		KOS X 3.7 10	3.7 mm	10 mm	2.5 mm	455720	F
		KOS X 3.7 12	3.7 mm	12 mm	2.5 mm	455721	F
d		KOS X 3.7 15	3.7 mm	15 mm	2.5 mm	455722	F
5		KOS X 4.1 8	4.1 mm	8 mm	2.8 mm	455730	F
		KOS X 4.1 10	4.1 mm	10 mm	2.8 mm	455731	F
		KOS X 4.1 12	4.1 mm	12 mm	2.8 mm	455732	F
		KOS X 4.1 15	4.1 mm	15 mm	2.8 mm	455733	F
1	e	KOS X 4.1 17	4.1 mm	17 mm	2.8 mm	455734	F
		KOS X 4.1 19	4.1 mm	19 mm	2.8 mm	455735	F
a) Abutment Ø	3.9 mm	KOS X 5.0 10	5.0 mm	10 mm	2.8 mm	455740	F
b) Abutment height	7.2 mm	KOS X 5.0 12	5.0 mm	12 mm	2.8 mm	455741	F
c) Neck length	3.0 mm	KOS X 5.0 15	5.0 mm	15 mm	2.8 mm	455742	F



8 - 19 mm

3.0 - 5.0 mm

2.0, 2.5, 2.8 mm

KOS[®] implants are delivered incl. lab-set REF 462353, consisting of

Double analogue, plastic IA4/IAU

462111



Impression post castable, internally edged, for large head PA X

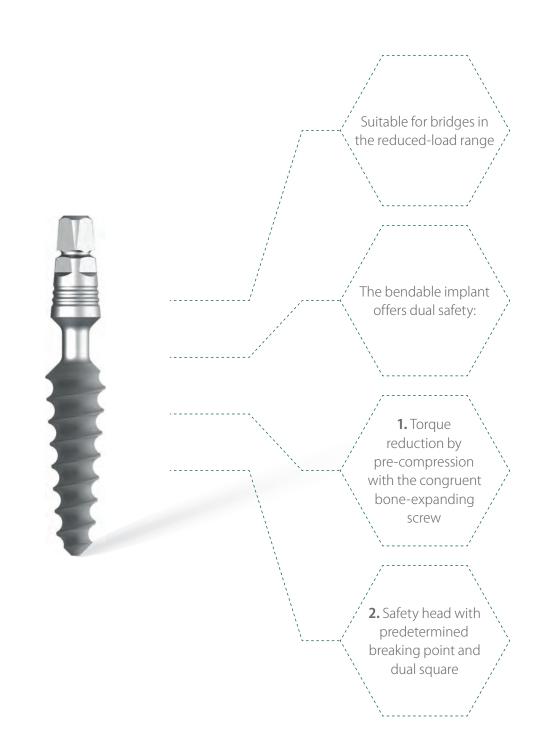
462136

Impression post castable, internally round, for small head TSPA 4 462029

NOTE This is a standard lab-set and therefore contains parts for both LARGE abutment heads (PA X) and SMALL abutment heads (TSPA 4).



THE ADVANTAGES OF KOS° B IMPLANTS



KOS® B IMPLANTS WITH SMALL HEAD FOR BRIDGES

KOS® B implants with bendable neck (use after pre-drilling and preparation with the bone-expanding screw). Suitable for bridges in the reduced-load range (no individual tooth restorations). The bendable implant now offers dual safety:

- 1. Torque reduction by pre-compression with the congruent bone-expanding screw
- 2. Safety head with predetermined breaking point and dual square

Description	Code KDS	Enossal Ø	Enossal length	REF	Price cat.
KOS B 3.0 15	С	3.0 mm	15 mm	455160	F
KOS B 3.2 12	D	3.2 mm	12 mm	455162	F
KOS B 3.2 15	E	3.2 mm	15 mm	455161	F
KOS B 3.7 12	F	3.7 mm	12 mm	455164	F
KOS B 3.7 15	G	3.7 mm	15 mm	455165	F
KOS B 4.1 15	L	4.1 mm	15 mm	455166	F
KOS B 4.1 17	Μ	4.1 mm	17 mm	455167	F

The predetermined fracture site integrated in the abutment prevents the twisting off of the abutment head from the endosseous implant part. The implant socket has to however always be pre-compressed using the bone-expanding screw.





462111

IA4/IAU

Impression post castable, internally edged, for large head **PA X**

Double analogue, plastic

462136

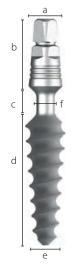
Impression post castable, internally round, for small head **TSPA 4**

462029

NOTE This is a standard lab-set and therefore contains parts for both **LARGE** abutment heads (**PA X**) and **SMALL** abutment heads (**TSPA 4**).



After insertion, the bendable KOS® B screws can be bent into the desired position using the inserted insertion aid and ratchet. Maximum bend: approx. 15°. Only one bending process may take place. The motor insertion aid should be used in the upper jaw because of the better implant guidance when screwing in.



a) Abutment Ø	3.35 mm		
b) Abutment height	6.8 mm		
c) Neck length	3.0 mm		
d) Enossal length	12 - 17 mm		
e) Enossal Ø	3.0 - 4.1 mm		
f) Neck Ø	1.8 mm		
Max. insertion torque 45 Ncm			

LUSIVE

IMPRESSION TAKING AND LABORATORY ACCESSORIES

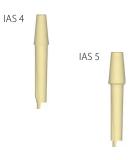
	Description	Unit	Code	REF	Price cat.
T	Impression post made of POM Castable, internally round	Pack of 5	TSPA 4*	462029	В
	ALTERNATIVE Impression post made of POM Castable, internally round	Pack of 5	TSPA 4*	462027	В
	Impression post Castable, internally edged	Pack of 5	TSKPA 4	462028	В
	Double analogue, plastic For large and small head	Pack of 5	IA4/IAU	462111	В
	Double analogue, metal For large and small head	1 piece	IA4/IAU	462112	A
	Castable abutment and base for provisionals For small head 7 mm high, white, internally round	Pack of 5	P04	462088	В
	Castable abutment and base for provisionals 7 mm high, white, internally edged	Pack of 5	PO4A	462089	В

***TSPA 4 and 5** For impressions on ground-down implant heads.

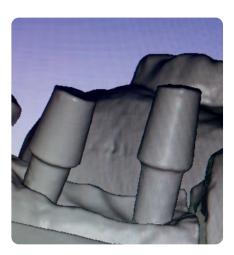
This ring-transfer exposes the lower border of the abutment head. The impression is then poured with extra-strong gypsum or epoxi-resin. For this techniques no implant analogues are needed. Material: PP

SCANNER ANALOG

Scanner analogue for large and small implant head, self-descriptive. These analogues do not need to be sprayed with spray paint. They can be pulled out of the model with anti-rotation protection. Matching impression posts: **TSPA 4** and **TSPA 5**



Description	REF	Price cat.
Scanner analogue IAS 4 For small head	462019	В
Scanner analogue IAS 5 For large head	462020	В



Use example for self-descriptive scanner analogue

CEMENTABLE ANGULATION ADAPTER (TI6AL4V)

These adapters are mounted on **KOS**[®] implants to compensate for the insertion direction. Plastic cements are preferably used. The implant head must be roughened beforehand. The protruding head parts are then removed. The impression is taken directly on the adapter.





Description	Code	REF	Price cat.
Adapter, 15° For small head	AA15 KK	462036	С
Adapter, 25° For small head	AA25 KK	462046	С
Adapter, 15° For large head	AA5 15°	462052	С
Adapter, 25° For large head	AA5 25°	462053	С

CASTABLE CROWN BASE

These adapters are used by the dental technician for modeling of bridge frames. In the metal try-in, the protruding head parts are removed by the dentist.



Description	
Adapter 15°	
For small head	
Reducible and castable	
Pack of 5	

Height	Code	REF	Price cat.
7.5 mm	AAL 15 KK	462045	С

LAB ANALOGUE



Description	Code	REF	Price cat.
Abutment analogue for angulation adapter	AAA	462049	В
For small head 15° and 25°			

CASTABLE PART AND IMPRESSION CAP



Description	Code	REF	Price cat.
Castable abutment and transfer for AAA	PAAAA	462050	В
Pack of 5			

KDS BONE EXPANDING SCREWS

For all **KOS® B** screw implants, bone-expanding screws are available as tools to create the definitive implant cavity. Basically, for each implant prior to insertion of a **KOS® B** screw implant, a bone compression with the bone-expanding screw should be performed. In addition, with a narrow alveolar ridge, an expansion of the alveolar ridge can be performed with the bone-expanding screw. By inserting the bone-expanding screw, it can be checked whether the **KOS® B** screw implant can be inserted into the bone easily and fully. Titanium alloy Ti6Al4V, machined. Tighten with **IT K**, **ITS K** or **ITX K** using the torque ratchet **TW2** (max. 45 Ncm), or alternatively **RAT 2**. Package unit: 1 piece, non-sterile



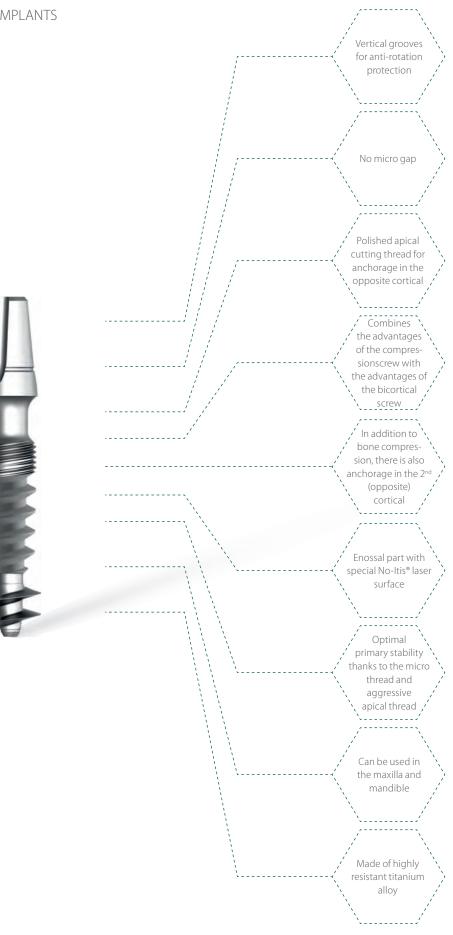
Description	Code KDS	Enossal Ø	Enossal length	Neck Ø	REF	Price cat.
KDS 3.0 10	А	3.0 mm	10 mm	2.0 mm	455212	F
KDS 3.0 12	В	3.0 mm	12 mm	2.0 mm	455213	F
KDS 3.0 15	С	3.0 mm	15 mm	2.0 mm	455214	F
KDS 3.2 12	D	3.2 mm	12 mm	2.5 mm	455223	F
KDS 3.2 15	E	3.2 mm	15 mm	2.5 mm	455224	F
KDS 3.7 12	F	3.7 mm	12 mm	2.8 mm	455233	F
KDS 3.7 15	G	3.7 mm	15 mm	2.8 mm	455234	F
KDS 4.1 8	Н	4.1 mm	8 mm	2.8 mm	455241	F
KDS 4.1 10	1	4.1 mm	10 mm	2.8 mm	455242	F
KDS 4.1 12	К	4.1 mm	12 mm	2.8 mm	455243	F
KDS 4.1 15	L	4.1 mm	15 mm	2.8 mm	455244	F
KDS 4.1 17	Μ	4.1 mm	17 mm	2.8 mm	455245	F
KDS 4.1 19	Ν	4.1 mm	19 mm	2.8 mm	455246	F

a) Abutment Ø	3.35 mm
b) Abutment height	6.8 mm
c) Enossal length	8 - 19 mm
d) Enossal Ø	3.0 - 4.1 mm
e) Neck Ø	2.0 - 2.8 mm

The bone-expanding screws can easily be screwed in using suitable insertion tools and immediately screwed out again after reaching the full insertion depth. Subsequently, the **KOS® B** implant is inserted. With the **KOS®** (bendable), **the use of bone-expanding screws is mandatory regardless of the region**, so that the shear forces occurring during insertion do not fracture the implant neck.

Do not use for KOS[®] implants with microthread.





28

KOS® PLUS IMPLANTS

KOS® PLUS are made in one piece and have a polished apical cutting thread for anchorage in the opposite cortical. KOS® Plus combines the advantages of the compression screw with the advantages of the bicortical screw: in addition to bone compression, there is also anchorage in the 2nd cortical (opposite cortical). Can be used in the maxilla and mandible. Made of titanium alloy Ti6Al4V, laserd. Tighten with **IT2 BCS**.



Description	Neck Ø	Compression thread	Enossal length	REF	Price cat.
KOS 3.7 9+3	2.5 mm	9 mm	12 mm	455800	G
KOS 3.7 11+3	2.5 mm	11 mm	14 mm	455801	G
KOS 3.7 13+3	2.5 mm	13 mm	16 mm	455802	G
KOS 3.7 16+3	2.5 mm	16 mm	19 mm	455803	G
KOS 3.7 20+3	2.5 mm	20 mm	23 mm	455804	G
KOS 4.1 6+3	2.8 mm	6 mm	9 mm	455810	G
KOS 4.1 9+3	2.8 mm	9 mm	12 mm	455811	G
KOS 4.1 11+3	2.8 mm	11 mm	14 mm	455812	G
KOS 4.1 13+3	2.8 mm	13 mm	16 mm	455813	G
KOS 4.1 20+3	2.8 mm	20 mm	23 mm	455814	G
KOS 5.0 6+3	2.8 mm	6 mm	9 mm	455820	G
KOS 5.0 9+3	2.8 mm	9 mm	12 mm	455821	G
KOS 5.0 11+3	2.8 mm	11 mm	14 mm	455822	G
KOS 5.0 13+3	2.8 mm	13 mm	16 mm	455823	G

a) Abutment Ø	3.9 mm
b) Abutment height	7.2 mm
c) Neck length	3.5 mm
d) Enossal length	9 - 23 mm
e) Apical thread Ø	4.5 mm
f) Area for 2 nd cortical engagement	3.0 mm
g) Enossal compression region	6 - 20 mm
h) Enossal Ø	3.7 / 4.1 / 5.0 mm
i) Neck Ø	2.5 / 2.8 mm
Ę	

KOS® implants are delivered incl. lab-set REF 462353, consisting of

Double analogue, plastic

IA4/IAU 462111

Impression post castable, internally edged, for large head PA X

462136

Impression post castable, internally round, for small head **TSPA 4** 462029

NOTE This is a standard lab-set and therefore contains parts for both **LARGE** abutment heads (**PA X**) and **SMALL** abutment heads (**TSPA 4**).



red Impression cap and the red analogue are r (not secured against rotation).

EXAMPLE OF USE OF KOS® PLUS IMPLANTS



Bicortical anchorage of a **KOS® Plus** implant in the atrophied distal mandible.



Bicortical anchorage of a **KOS® Plus** implant in the area of the nasal floor.



Bicortical anchorage of **KOS® Plus** implants (Ø 3.7 and 4.1) in the area of the maxillary sinus.

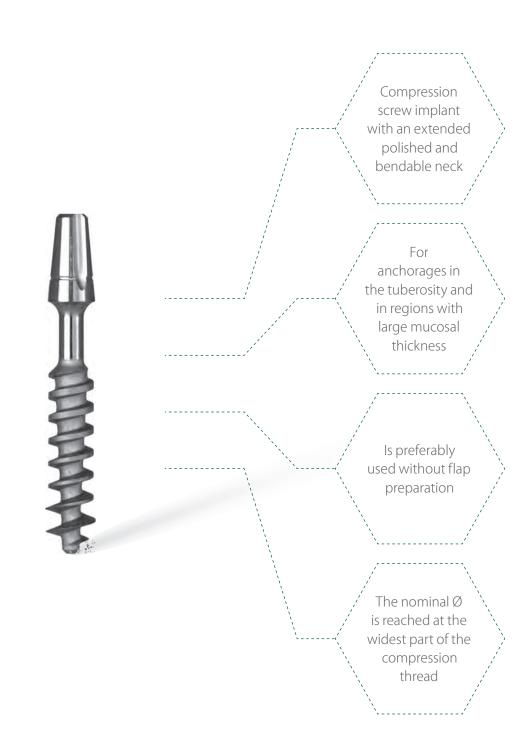
NOTE - KOS[®] Plus may only be operated/used by validly authorized users. Only polished implant parts may penetrate a maximum of 1.5 mm into the opposite cortical. For a given indication (min. three stable implants, sufficient bone quality, etc.). KOS[®] Plus are suitable for immediate loading.

AUXILIARY TOOL

Auxiliary tool for determining the plane of bite in relation to the Camper's plane and the bipupillary line during the creation of the upper jaw part of the bite registration. Can be used with wax or silicone.



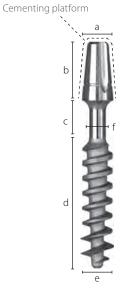
THE ADVANTAGES OF KOS® TX IMPLANTS



31

KOS® TX IMPLANTS

KOS® TX is a compression screw implant with an extended polished and bendable neck (6 mm) for anchorages in the tuberosity and in regions with large mucosal thickness. The roughened thread parts must be completely submerged in the bone. **KOS® TX** is preferably used without flap preparation. The nominal diameter is reached at the widest part of the compression thread.



Description	Enossal Ø	Enossal length	REF	Price cat.
KOS TX 3.0 12	3 mm	12 mm	455001	F
KOS TX 3.0 15	3 mm	15 mm	455002	F
KOS TX 3.0 18	3 mm	18 mm	455003	F
KOS TX 3.7 12	3.7 mm	12 mm	455005	F
KOS TX 3.7 15	3.7 mm	15 mm	455006	F
KOS TX 3.7 18	3.7 mm	18 mm	455007	F
KOS TX 4.0 12	4 mm	12 mm	455175	F
KOS TX 4.0 15	4 mm	15 mm	455176	F
KOS TX 4.0 18	4 mm	18 mm	455177	F
KOS TX 4.0 21	4 mm	21 mm	455178	F

a) Abutment Ø	3.9 mm			
b) Abutment height	7.2 mm			
c) Neck length	6 mm			
d) Enossal length	12 - 21 mm			
e) Max. enossal Ø	4 mm			
f) Neck Ø	2 mm			
Max. insertion torque 80 Ncm				



KOS® implants are delivered incl. lab-set REF 462353, consisting of



IA4/IAU 462111

Double analogue, plastic

Impression post castable, internally edged, for large head

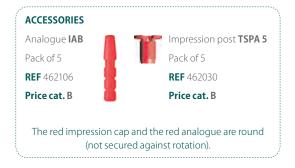


PA X 462136

 Impression post castable, internally round, for small
 TSPA 4
 462029

NOTE This is a standard lab-set and therefore contains parts for both **LARGE** abutment heads (**PA X**) and **SMALL** abutment heads (**TSPA 4**).





KOS®



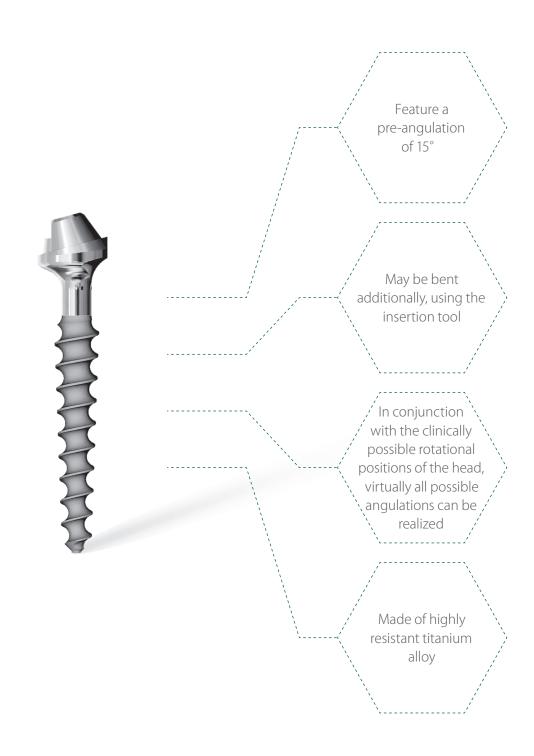
IMPRESSION TAKING AND LABORATORY ACCESSORIES

	Description	Unit	Code	REF	Price cat.
T	Impression post castable, POM Internally round	Pack of 5	TSPA 5*	462030	В
	Impression post castable, Internally edged	Pack of 5	PA X	462136	В
	Double analogue, plastic For large and small head	Pack of 5	IA4/IAU	462111	В
	Double analogue aus Metal For large and small head	1 piece	IA4/IAU	462112	A
	Castable abutment for large head Internally round	Pack of 5	POB	462086	В

***TSPA 4 and 5** For impressions on ground-down implant heads.

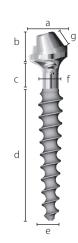
This ring-transfer exposes the lower border of the abutment head. The impression is then poured with extra-strong gypsum or epoxi-resin. For this techniques no implant analogues are needed. Material: PP

THE ADVANTAGES OF KOS° MU IMPLANTS



KOS® MU IMPLANTS

KOS® MU implants feature a pre-angulation of 15 degrees. KOS® MU may be bent additionally, using the insertion tool. In conjunction with the clinically possible rotational positions of the head, virtually all possible angulations can be realized. Material **Ti6Al4V**.



a) Abutment Ø	4.8 mr
b) Abutment height	3.7 mn
c) Trans-mucosal height	3 mm
d) Enossal length	8 - 15 r
e) Enossal Ø	3.0 - 5.
f) Neck Ø	2 mm
g) Height of connecting part	2 mm
Prosthetic screw	SFK M

Description
KOS MU 3.0 15
KOS MU 3.2 12
KOS MU 3.2 15
KOS MU 3.7 10
KOS MU 3.7 12
KOS MU 3.7 15
KOS MU 4.1 8
KOS MU 4.1 10
KOS MU 4.1 12
KOS MU 4.1 15
KOS MU 5.0 10
KOS MU 5.0 12

4.8 mm 3.7 mm 3 mm 8 - 15 mm 3.0 - 5.0 mm 2 mm 2 mm SFK MU

Enossal Ø	Enossal length	REF	Price cat.
3.0 mm	15 mm	455830	L
3.2 mm	12 mm	455838	L
3.2 mm	15 mm	455839	L
3.7 mm	10 mm	455840	L
3.7 mm	12 mm	455841	L
3.7 mm	15 mm	455831	L
4.1 mm	8 mm	455842	L
4.1 mm	10 mm	455843	L
4.1 mm	12 mm	455832	L
4.1 mm	15 mm	455833	L
5.0 mm	10 mm	455834	L
5.0 mm	12 mm	455835	L



MULTI-UNIT LAB SET



Description Titanbasis Use with SF K MU	Code T-Base MU	REF 418188	Price cat.
Castable abutment Use with T-Base and SF KMU	PA2 MU	418189	
Prosthetic screw For KOS® MU and BCS® MU	SF K MU	418164	
COMPLETE SET		418289	E

ACCESSORIES SINGLE-PIECE MULTI-UNIT IMPLANTS

	Description		Code	REF	Price cat.
	Insertion tool for KOS® MU, BCS® MU and Hexacone® Plus MU 15° Use with IT2 BCS, IT2 S BCS, AH MU Tool HT 1.25		ITX MU15	418203	G
	 Insertion tool long For large head Use with RAT2 and TW2, length 19 mm 		IT2 BCS	900030	E
	 Insertion tool short For large head Use with RAT2 and TW2, length 7 mm 		IT2 S BCS	900038	E
	Adapter for handgrip Fits ITX MU15 (REF 418203)		AH-MU	900041	F
	Description		Code	REF	/
	Hex Instrument 1.25, length 14 mm	short	HTS 1.25	425101	С
	Hex Instrument 1.25, length 21 mm	medium	HT 1.25	425100	С
	Hex Instrument 1.25, length 45 mm	long	HTX 1.25	425102	C
]	Scan abutment for MU implants Incl. screw SSA MU Sterilisable, two-part, material Ti6Al4V		SAB MU	418205	D
	Prosthetic screw for KOS® MU and BCS® MU		SF K MU	418164	В
Parts for passive connection of the bridge frame	Castable abutment Use with T-Base and SF K MU		PA2 MU	418189	В
	Titanium base * Use with SF K MU (REF 418164) For KOS® MU, BCS® MU and Hexacone® Plus N	1U	T-Base MU	418188	В
	Prosthetic screw For KOS® MU and BCS® MU		SF K MU	418164	В
Parts for UCLA technique	Castable abutment UCLA For direct use on MU implants SF K MU sold separately		PA MU	418119	В
Part for UCLA technique & bassive connection	Digital lab analogue for MU implants* For KOS® MU, BCS® MU and Hexacone® MU		IA K MU	418159	В
	Long screw for prosthetic use or as pick-up screw for use with HLT MU Tool: HT 1.25, material Ti6Al4V		SFL MU	418168	В
	Transfer for pick-up impressions Straight Delivery incl. SFL MU	Works with all MU implants	HLT MU	418162	С
	Temporary base SF K MU or SFL MU sold separately		TC MU	418161	D

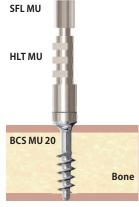
* PLEASE GO TO HTTPS://IMPLANT.COM/EN/DOWNLOADS TO DOWNLOAD THE CORRESPONDING STL FILES SEE PAGE 51 FOR SCANBODIES FOR DIGITAL IMPRESSIONS ON MU IMPLANTS

APPLICATION OF SINGLE-PIECE MULTI-UNIT IMPLANTS

1.

Tighten screw SFL MU with the tool HT 1.25.

Fix the transfer with the long screw, then take pick-up-impression.



4.

T-Base is sandblasted **from the** outside and cleaned.

The bridge frame is sandblasted from below in the area of the implants.



5.

All T-Base are fixed to the implants with SF K MU or the long screw SFL MU. Then all T-Base are glued with adhesive cement to the bridge frame.

This guarantees a passive fit. Composite excess is removed and the site is polished.



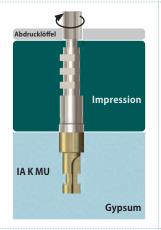
Now the bridge may be screwed on passive with SF K MU.



Application AH-MU Adapter or IT2 BCS/IT BCS of insertion tool MU + RAT 2 HT 1.25 Example for insertion tool ITX MU15 on the implant BCS® MU / KOS® MU. ITX MU15 **BCS MU**

2.

Connect the transfer to the implant analogue (IA K MU) and pour the impression with gypsum.



3.a

Connect PA MU with SF K MU on the analogue IA K MU. Tighten screw SFL MU with the tool HT 1.25.

Now the modulation can be created and the frame is veneered. Veneering is possible with acryl, composite and ceramics.

3.b

T-Base is positioned over the analogue and screwed on with SF K MU. The cartable PA2 MU is then fitted on top of the T-Base.

Now the modulation is made. Veneering is possible with acryl, composite and ceramics.



Castable is positioned

on T-Base.

Gypsum

PA2 MU

SF K MU

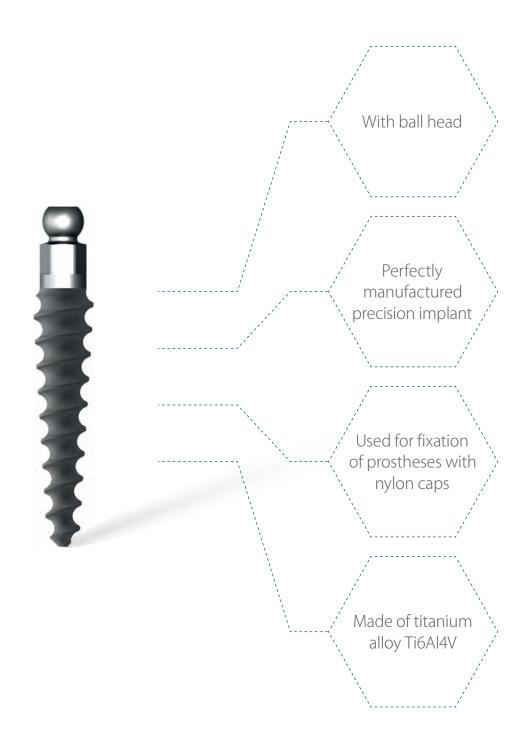
T-Base

IA K MU

6.

Screw canals are closed with temporary filling material or composite, taking into consideration that later access must be possible.

THE ADVANTAGES OF KOS° K IMPLANTS



KOS® K IMPLANTS

Perfectly manufactured precision implant made of highly fracture-resistant titanium alloy Ti6Al4V. **KOS® K** implants with ball head are used for fixation of prostheses with nylon caps.



c	b	a a f
	d	e

Description	Code KDS	Enossal Ø	Enossal length	REF	Price cat.
KOS K 3.0 12	В	3.0 mm	12 mm	455152	F
KOS K 3.0 15	С	3.0 mm	15 mm	455150	F
KOS K 3.7 12	F	3.7 mm	12 mm	455154	F
KOS K 3.7 15	G	3.7 mm	15 mm	455155	F
KOS K 4.1 15	L	4.1 mm	15 mm	455156	F

a) Ball head Ø	2.5 mm					
b) Abutment height	4.1 mm					
c) Length	5.6 mm					
d) Enossal length	12 - 15 mm					
e) Enossal Ø 3.0 / 3.7 / 4.1 mm						
f) Height of hexagor	n1.8 mm					

ACCESSORIES

Description IAK Lab analogue		Unit	Code IAK	REF 455180	Price cat. B
Nylon cap transp (EXTERNAL PROE	arent, Pull-off force ca. 1200g DUCT)	Pack of 2	NC	465028	A1
Nylon cap pink, Pull-off force ca. 800g (EXTERNAL PRODUCT)		Pack of 2	NC 1	465029	A1
Nylon cap yellow, Pull-off force ca. 500g (EXTERNAL PRODUCT)		Pack of 2	NC 2	465030	A1
Green, strong	Nylon caps R-NC With increased friction strength Only with reduced diameter ball	Pack of 2	R-NC	465034	A1
Pink, medium	≤ 2.3 mm (EXTERNAL PRODUCT)	Pack of 2	R-NC 1	465033	A1
Orange, soft		Pack of 2	R-NC 2	465032	A1
Metal sleeve for a (EXTERNAL PROE			н	465031	В
Giessbare Kugel 1	for einteiligen Abdruck with Stegver	rbindung	PA SB		A

BALL ADAPTER (SPARE BALL)



Description

Ball adapter for KOS® K implants, cementable



 REF
 Price cat.

 462051
 B

INSERTION TOOLS

ſ		Description For KOS, KOS B, KDS	Type long	Length 20 mm	Code IT K	REF 462320	Price cat. D
		For KOS, KOS B, KDS	extralong	45 mm	ІТХ К	462321	D
		For KOS, KOS B, KDS	short	7 mm	ITS K	462322	D
	Hex	For KOS, KOS B, KDS Only for W&H contra-angle with new drive	contra-angle/ hex	23 mm	ITWH K	462323	D
		For KOS, KOS B, KDS	contra-angle	23 mm	ITW K	462331	D
		For KOS K	long	20 mm	IT TB K	462327	D
		For KOS B Emergency tool for retrieving KOS® B	long	20 mm	Tool E	462377	D

40

INSTRUMENTS AND **TOOLS**



Description	Length	Code	REF	Price cat.
Drill extension Extends by 19 mm		DX 2	500704	D
Standardized probe. 1 mm scale For radiological measurements	22 mm	PDG	425400	А
Radiological measure pin Fits DOS 1		CDG	420329	A
Ratchet for all Hex instruments and insertion tools		RAT 2	425051	К
Torque wrench 10-70 Ncm		TW2*	425402	S

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

HARD METAL BONE CUTTER

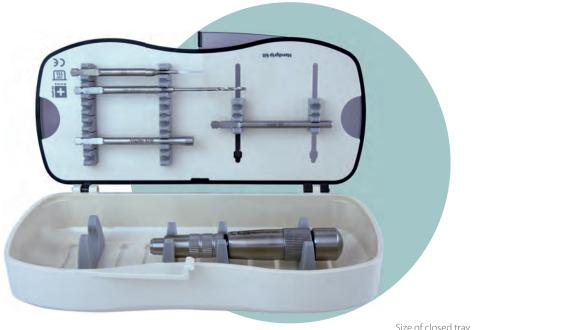
Description	Length	Code	REF	Price cat.
Hard metal bone cutter short, for FG	30 mm	SHMC S	90030	F
Hard metal bone cutter long, for FG	36 mm	SHMCL	90031	F

HANDGRIP SELF LOCKING

For machine reprocessing, cannot be dismantled. Clean in an ultrasonic bath at 45° with an alkaline cleaning agent. For adapter, self-locking. Please note the cleaning instructions on www.implant.com/en/downloads

		DRILLS				
		Description	Length	Code	REF	Price cat.
	8001	Adapter	100 mm	BCD 1 Adapter	310511	F
Length		Twist Drill	110 mm	Twist Drill 2.0	310512	F
110 mm						
REF 311431		INSERTION TOOLS				
Price cat. V		Description	Length	Code	REF	Price cat.
	æ	For KOS®, KOS® B, KDS, BCS 3.5, BCS 4.5	70 mm	Adapter AHK	462319	D
	Ο	ысээ.э, ысэ т .э				
		For KOS® X, KOS® TX, KOS® Plus, BCS 3.6,	70 mm	Adapter AHB	900037	F
		BCS 4.6, ab > 5.5				

HANDGRIP TRAY



Size of closed tray W 195 mm D 90 mm H 45 mm For all autoclaves

Description	Length	REF	Price €
BCD 1 Adapter	100 mm	310511	
Twist Drill 2.0	110 mm	310512	
Adapter AHK	70 mm	462319	
Adapter AHB	70 mm	900037	
Handgrip	110 mm	311431	
Handgrip tray w/o content		60043	upon request
Handgrip tray with content		S60043	upon request

Please read our detailed instructions for cleaning and re-sterilization of surgical instruments on https://implant.com/en/downloads

INSTRUMENT TRAY FOR KOS® AND BCS®



Size of closed tray **W** 175 mm **D** 145 mm **H** 65 mm For all autoclaves. Autoclaveable up to 134° C, not suitable for dry heat sterilizers.

Description	System	Head	REF	Description	System	REF	Price€
IT2 BCS	KOS/BCS	large	900030	Twist Drill 2.0 30	BCS *	90020	
IT2 S BCS	KOS/BCS	large	900038	Twist Drill 2.0 21	BCS *	90022	
IT2 W	KOS/BCS	large	900039	Twist Drill 2.5 21	BCS *	90026	
IT K	KOS/BCS	small	462320	BCD 1	KOS/BCS	900240	
ITS K	KOS/BCS	small	462322	BCD 2	KOS/BCS	900241	
ITW K	KOS/BCS	small	462331	BCD 3	KOS/BCS	900242	
ITWH K	KOS/BCS	small	462323	BCDX 1	KOS/BCS	900243	
DOS 1	KOS		455311	BCDX 2	KOS/BCS	900244	
DOS 2	KOS		455312	BCDX 3	KOS/BCS	900245	
DOS 3	KOS		455313	CDG	KOS/BCS	420329	
DOS 4	KOS		455314	CDG	KOS/BCS	420329	
DOS 5	KOS		455315	DX 2	KOS/BCS	500704	
C-Drill KM 1	KOS		455300	TW2	KOS/BCS	425402	
C-Drill KM 2	KOS		455301				
C-Drill KM 3	KOS		455302	Instrument tray w	/o content	60006-K	upon request
DS 2	KOS		425001	Instrument tray w	ith content	S60006-K	upon request
IT TB K	KOS		462327				

* The content for the system BCS® is optional

43

DRILLSTOP TRAY

	١	Vot suitab	le for (dry heat s	terilizers	Description	REF	Price €
1						Drillstopp B	500882	
Tiefe	Drills	Drillstop	Tiefe	Drills	Drillstop	Drillstopp C	500883	
KOS 3	.0 (3.2) DOS 1	к	KOS 4. 8	.1 DOS 3	L	Drillstopp D	500884	
12	DOS 1	н	10	DOS 3	К	Drillstopp F	500886	
15	DOS 1	D	12 15	DOS 3 DOS 4	н к	Drillstopp H	500888	
KOS 3 10	.7 DOS 2	К	17 19	DOS 4 DOS 4	H F	Drillstopp K	500891	
12	DOS 2	н				Drillstopp L	500892	
15	DOS 2	D	KOS 5. 10	.0 DOS 5 (6)	К	Drill DOS 1	455311	
			12 15	DOS 5 (6) DOS 5 (6)		Drill DOS 2	455312	
						Drill DOS 3	455313	
1 march	E					Drill DOS 4	455314	
U.	to a line	de le				Drill DOS 5	455315	
N.C.	and they say and	mar .				Drill DOS 6	455316	
		1				Tray with content	60033-K	498.00

IT HAS BEEN SCIENTIFICALLY PROVEN

Heatless® drills by Dr. Ihde Dental 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.

STARTER TRAY



Description	REF	Price €
IT K	462320	
ITS K	462322	
C-Drill KM 1	455300	
C-Drill KM 2	455301	
C-Drill KM 3	455302	
IT 2 BCS	900030	
IT 2 S BCS	900038	
DOS 1	455311	
DOS 2	455312	
DOS 3	455313	
BCDX 1	900243	
Torque wrench TW2	425402	
HT 1.25	425100	optional content
ITX MU 15	418203	opti
Starter tray w/o content	60041-K	upon request
Starter tray with content	S60041-K	upon request

44

INDICATIONS KOS® II KOS® MICRO

- Anchorage of crowns, bridges and bars, with the presence of adequate bone supply in terms of bone quality, bone width and bone height
- Anchorage of prostheses via bar and button anchorage systems
- Not for use in combination with simultaneous bone augmentations

RESTRICTIONS FOR KOS® B APPLICATION

- These two implant types may only be used as support implants in the reduced-load area
- Splinting of at least three and possibly several implants for cross arch stabilisation
- At least one KOS® or KOS® Micro implant must be involved in the construction
- The prosthetic restoration must be securely fixed (with definitive cements)
- Not to be used for segmented bridges without the involvement of at least two **KOS**[®] screws
- If in doubt, angulation adapters on **KOS**[®] screws are preferable to the **KOS[®] B** implant
- · Not to be used for additional abutments in combination with natural teeth
- Not to be used under off-axis load as well as in deep-bite cases in the maxillary and mandibular anterior region
- Max. width of occlusal surface 5 mm
- Not to be used as terminal abutments
- Bendable up to 13 degrees

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 should be used; in case of doubt, consult **Dr. Ihde Dental GmbH / AG**.

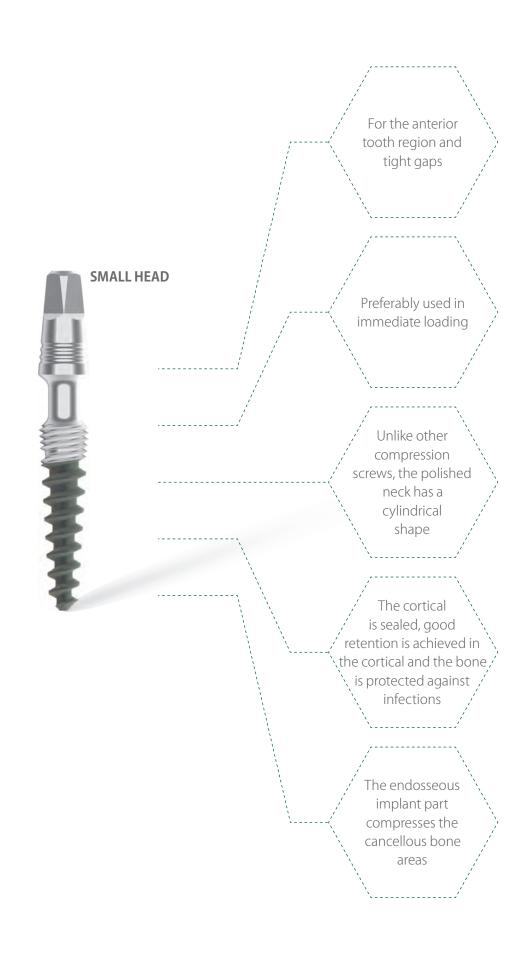
The following are not recommended:

- Disinfectants/cleaners with a high chlorine content
- Disinfectants/cleaners with a high oxalic acid content

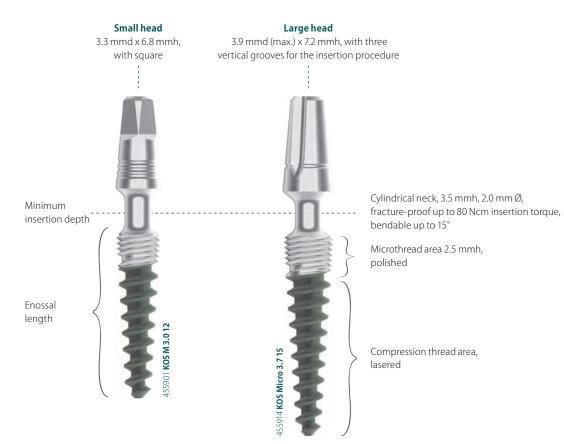
For instruments with colour coding, the following are <u>NOT</u> recommended:

- Excessively high solvent concentrations, disinfectants/cleaners with the components mentioned above
- Excessive temperatures during cleaning and sterilization (no dry heat sterilization)

THE ADVANTAGES OF KOS® M IMPLANTS



KOS® M AND MICRO IMPLANTS



MATERIAL

Ti6AL4V, also known as "Grade 5", is the high-purity version of the conventional 6/4 Ti alloy, which is used for more than 50% of all metallic human implants. This material is the first choice for all applications which require high stability, corrosion resistance and mechanical strength. This is why today's most modern dental implant designs are made of this material. This titanium alloy is superior to the alternatively used pure titanium in terms of stability by more than 25%. Also regarding biocompatibility and the support of bone cell growth, this titanium alloy shows advantages compared to pure titanium.

FUNCTIONALITY

The one-piece **KOS® M / KOS® Micro** dental implant is preferably used in immediate loading. Unlike other compression screws, the polished neck has a cylindrical shape. Thus, the cortical is sealed, good retention is achieved in the cortical and the bone is protected against infections. At the same time, the endosseous implant part compresses the cancellous bone areas.

NOTE The smooth microthread must be completely submerged below the bone level. The cylindrical neck must extend into the bone at least 1 mm deep. Therefore, the implant must be selected so that at least 1.5 mm more usable vertical bone is present than the nominal length of the implant. **Example** For KOS Micro 3.7 15, 17 mm of usable vertical bone must be present. If in doubt, a shorter implant should be selected so as to ensure a sufficient insertion depth.

DRILLING PROCEDURE

The pilot hole is made with the drills of the KOS® system. Except in very dense mandibular bone, the pilot hole is usually sufficient with BCD1 or DOS1.

INSERTION

The implant can be inserted most easily with the handgrip (REF 311431) and the adapter (REF 900 037). When using the ratchet RAT2, small or medium insertion tools are used. Max. torque is 80 Ncm.

THE IMPLANTS ARE SUPPLIED WITH TWO DIFFERENT HEAD SIZES

KOS® M implants are supplied with a small head; they also fit in small individual tooth gaps. **KOS® Micro** implants are supplied with a large head. This head permits easy and speedy prosthetic restoration.

KOS® M IMPLANTS WITH SMALL ABUTMENT HEAD

KOS® M with small head for the anterior tooth region and tight gaps. Material Ti6Al4V.



Description	Enossal Ø	Enossal length	Neck Ø	Drill *	REF	Price cat.
KOS M 3.0 10	3.0 mm	10 mm	2 mm		456108	F
KOS M 3.0 12	3.0 mm	12 mm	2 mm	DOS 1	456109	F
KOS M 3.0 15	3.0 mm	15 mm	2 mm	or or	456110	F
KOS M 3.2 12	3.2 mm	12 mm	2 mm	BCD 1	456111	F
KOS M 3.2 15	3.2 mm	15 mm	2 mm		456112	F
KOS M 3.7 6	3.7 mm	6 mm	2 mm)		456106	F
KOS M 3.7 8	3.7 mm	8 mm	2 mm	DOS 2	456107	F
KOS M 3.7 10	3.7 mm	10 mm	2 mm	° or	456114	F
KOS M 3.7 12	3.7 mm	12 mm	2 mm	BCD 2	456115	F
KOS M 3.7 15	3.7 mm	15 mm	2 mm		456120	F
			/			

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

a) Abutment Ø	3.35 mm
b) Abutment height	6.8 mm
c) Neck length	3.5 mm
d) Enossal length	6 - 15 mm
e) Enossal Ø	3.0 - 3.7 mm
f) Neck Ø	2.0 mm
g) Square AF (across flats)	1.9 mm



KOS[®] implants are delivered incl. lab-set REF 462353, consisting of

IA4/IAU 462111

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Impression post castable, internally edged, for large head PA X 462136

Impression post castable, internally round, for small head

Double analogue, plastic

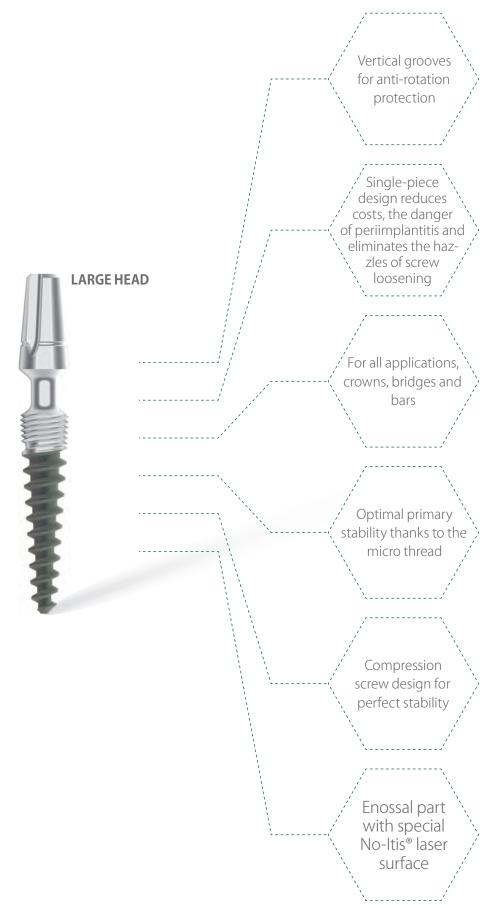
T

TSPA 4 462029

NOTE This is a standard lab-set and therefore contains parts for both **LARGE** abutment heads (**PA X**) and **SMALL** abutment heads (**TSPA 4**).



THE ADVANTAGES OF KOS® MICRO IMPLANTS



KOS® MICRO IMPLANTS WITH LARGE ABUTMENT HEAD

KOS® Micro with large head for all applications. Material Ti6Al4V.



Description	Enossal Ø	Enossal length	Neck Ø	Drill *	REF	Price cat.
KOS Micro 3.7 6	3.7 mm	6 mm	2.0 mm		455910	F
KOS Micro 3.7 8	3.7 mm	8 mm	2.0 mm	DOS 2	455911	F
KOS Micro 3.7 10	3.7 mm	10 mm	2.0 mm	or	455912	F
KOS Micro 3.7 12	3.7 mm	12 mm	2.0 mm	BCD 2	455913	F
KOS Micro 3.7 15	3.7 mm	15 mm	2.0 mm		455914	F
KOS Micro 4.1 8	4.1 mm	8 mm	2.0 mm		455920	F
KOS Micro 4.1 10	4.1 mm	10 mm	2.0 mm	DOS 3	455921	F
KOS Micro 4.1 12	4.1 mm	12 mm	2.0 mm	or	455922	F
KOS Micro 4.1 15	4.1 mm	15 mm	2.0 mm)	BCD 3	455923	F
KOS Micro 5 10	5.0 mm	10 mm	2.0 mm	DOS 5	455925	F
KOS Micro 5 12	5.0 mm	12 mm	2.0 mm	DOS 5	455926	F

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

a) Abutment Ø	3.9 mm
b) Abutment height	7.2 mm
c) Neck length	3.5 mm
d) Enossal length	6 - 15 mm
e) Enossal Ø	3.7 - 5.0 mm
f) Neck Ø	2.0 mm
Max. insertion torque	e 80 Ncm



KOS® implants are delivered incl. lab-set REF 462353, consisting of

Double analogue, plastic



462111

IA4/IAU

Impression post castable, internally edged, for large head PA X

462136

Impression post castable, internally round, for small head **TSPA 4** 462029

NOTE This is a standard lab-set and therefore contains parts for both **LARGE** abutment heads (**PA X**) and **SMALL** abutment heads (**TSPA 4**).





IMPRESSION TAKING AND LABORATORY ACCESSORIES

		Description	Unit	Code	REF	Price cat.
FOR SMALL HEAD		Impression post castable, POM Internally round	Pack of 5	TSPA 4	462029	В
		ALTERNATIVE Impression post castable, POM Internally round	Pack of 5	TSPA 4	462027	В
		Castable abutment and base for provisionals For small head 7 mm high, white, internally round	Pack of 5	PO4	462088	В
		Double analogue, plastic For large and small head	Pack of 5	IA4/IAU	462111	В
		Double analogue, metal For large and small head	1 piece	IA4/IAU	462112	A
FOR LARGE HEAD	T.	Impression post castable, Internally edged	Pack of 5	PA X	462136	В
		Castable abutment for large head Internally round	Pack of 5	РОВ	462086	В



TITANIUM CAPS

Description	Material	Code	REF	Price cat.
Titanium cap, radio opaque For small head	Ti6Al4V weldable	MA4	462090	В
Titanium cap, radio opaque For large head	Ti6Al4V weldable	MA5	462093	В

CORTICAL MILLING FOR KOS® M AND KOS® MICRO



Description		Code	REF	Price cat.
C-Drill KM1 3.0 - 3.2	Cortical milling	C-Drill KM1	455300	Е
C-Drill KM2 3.7 - 4.1	Cortical milling	C-Drill KM2	455301	E
C-Drill KM3 5.0	Cortical milling	C-Drill KM3	455302	E

SCANBODIES MATERIAL PEEK/POM

					View from top
Description	Scanbody-4 Cylyndrical, for small head	Description	Scanbody-5 Cylyndrical, for large head	Description	Scanbody-MU Cylyndrical
Systems	KOS®, BCS®	Systems	KOS®, BCS®	Systems	KOS® MU, BCS® MU, Hexacone® MU
REF	462054	REF	462055	REF	462056
Price cat.	B (Pack of 5)	Price cat.	B (Pack of 5)	Price cat.	B (Pack of 5)
					View from top
Description					
Description	Flag-Scanbody SCB4 For small head For intra-oral scans	Description	Flag-Scanbody SCB5 For large head For intra-oral scans	Description	Flag-Scanbody SCB MU Incl. screw SFK MU (418164) For intra-oral scans
Systems	For small head	Description Systems	For large head	Description Systems	Incl. screw SFK MU (418164)
	For small head For intra-oral scans		For large head For intra-oral scans		Incl. screw SFK MU (418164) For intra-oral scans KOS® MU, BCS® MU,
Systems	For small head For intra-oral scans KOS®, BCS®	Systems	For large head For intra-oral scans KOS®, BCS®	Systems	Incl. screw SFK MU (418164) For intra-oral scans KOS® MU, BCS® MU, Hexacone® MU

Please go to https://implant.com/en/downloads to download the corresponding STL files.

HEATLESS® DRILLS DOS FOR IMPLANTS WITH CONICAL CORE

Surgical steel, colour-coded, depth-coded and autoclaveable. 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	DOS 1	yellow	17 mm	455311	D
		DOS 2	black	17 mm	455312	D
		DOS 3	red	17 mm	455313	D
HE	0000	DOS 4	blue	21 mm	455314	D
		DOS 5	green	17 mm	455315	D
		DOS 6	transparent	15 mm	455316	D

DOS 6 This drill is 2 mm shorter at the tip. It can therefore drill up to 2 mm deeper into hard bone than nominally indicated on the drill. Therefore, the conical bone cavity is only circularly extended in the crestal area without increasing the drilling depth.

INSTRUMENTS AND **TOOLS**

) () ()	Description Insertion tool short, for large head Use with RAT 2 and TW2	Length 7 mm	Code IT2 S BCS	REF 900038	Price cat. E
	Insertion tool long, for large head Use with RAT 2 and TW2	19 mm	IT2 BCS	900030	E
	Insertion tool for large head Use with contra-angle	23 mm	IT2W	900039	E
	Insertion tool long, for small head Use with RAT 2 and TW2	20 mm	ІТ К	462320	D
() () () () () () () () () () () () () (Insertion tool short, for small head Use with RAT 2 and TW2	7 mm	ITS K	462322	D
	Insertion tool for small head Use with contra-angle	23 mm	ITW K	462331	D
	Torque wrench 10 - 70 Ncm		TW2	425402	S
	Adapter for large head Use with handgrip	70 mm	АНВ	900037	F
	Adapter for small head Use with handgrip	70 mm	АНК	462319	D
	For machine reprocessing, cannot be dismantled Clean in an ultrasonic bath at 45° with an alkaline cleaning agent For adapter, self-locking	110 mm		311431	V



EN

54

IHDEDENTAL[®]

Picture 14
Picture 24
<

Valid for advising patients before and after the place-ment of the implants. **Ceneral principles** Allreusable products must be cleaned, disinfected and sterilised before each use: this also applies to the initial use of products that or esupplied nonstrelic. Efficient cleaning and disinfection is essential for defactive should non. Beside in form the initial for defactive should non. Beside in form the practice units must also be observed. At the operator it responsible for the sterility of instruments during use, please ensure that only ade-guide, wildleded porometers specific to the sterility of instruments during use, please ensure that only ade-guide, wildleded porometers specific to the sterility of instruments during use, please ensure that only ade-guide, wildleded porometers specific to the sterility of instruments during use, please ensure that only ade-itions of the dental practice and dental hospital This ab papiles in particular to the different guidelines thanding containinated instruments! Inside the distinct of the risk of damage. • During mechanical cleaning, instruments should • arranged so that they canned or sterilised together. • During mechanical cleaning, instruments should • Multip pati instruments should also be stored disassem-bled unit he next use. **Case instruments should also be stored disassem-bled unit he next use.**

bide until the next use. Care instructions of surgical steel instruments Surgical steel instruments can quickly become domo-ged with inadequate or incorrect care. Only commer-cially available solvents should be used for surgical teel if in doubt contact Dr. Hode Denial AG De following are not recommended: Destingto-incleaning agent with a high chlorine Distingto-incleaning agent with a high chlorine Distingto-incle

Ioo high temperatures with mechanical cleaning and stellisation: never higher than 135°C
 Containing
 Coarase impurities must be removed from the products formediately after use [within 1-2 hrs noximum]. Surgic care issue (blood, secretors, lissue resulta) should be load a secretor in the products interface of the secret of the

MANUFACTURER'S INFORMATION regarding the prepa-ration of resterilisable medical devices complies with NISO 17664 Please read carefully! Medical devices which may be re-processed are

dations are applied with regard to the products ment. To breactive \$3/42 EEC Medical device regulations device is used for treat. ment or where the functionality of the medical do-2001 :44: 115-1125 Hygiene requirements for the processing of medical treat the instament is should be examined to use and and the features the Robert-Koch Institute and the Federal Ministry for Durgs and Medical Devices Bundesministeriums for the clean de component should be examined for vi-the clean decide Devices Bundesministeriums the Robert-Koch Institute and the Federal Ministry for Laga laft processing the clean decide of the clean decide on the soft the clean decide Devices Bundesministeriums the Robert-Koch Institute and the Federal Ministry for Laga laft processing the clean decide on the clean decide on the soft the clean decide Devices Bundesministeriums the Robert-Koch Institute and the Federal Ministry for Laga laft processing the clean decide on the clean and and clean the soft and the federal Ministry for the clean decide Devices Bundesministeriums for Bunder and the federal Ministry for the clean decide Devices Bundesministeriums for Bunder and the federal Ministry for the clean decide Devices Bundesministeriums for Bunder and the federal Ministry for the clean decide Devices Bundesministeriums for Bunder and the federal Ministry for the clean decide Devices Bundesministeriums for Bunder and the federal Ministry for the clean decide Devices Bundesministeriums for Bunder and the federal Ministry for Bunder an

Arzheimittel und Medizinproduktel).

Legal Information:

Impliants and other components of the implant system
Dakos, 80, BCS, BECES, GBC as well as KOS FUS (bopactilioners with valid authorisation of the manufact
foundation/Munich, see www.implantfoundation
General principles
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General principles
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General principles
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valid for advising patients before and after the place.

General principles
Alfreusable product huse this also applies to the initiat
valid for advising patients before and after the place.

Cleaning and disinfection is essential for effective
should be obtained from the instructions for use. Into
stepscil cleaning derivers that or as possible after removel (see Section "Pack the costavging": In ecessary.

Cleaning and disinfection system that only adeof instruments during use, please ensure that only adeinto stage. In recessary.

Description

Alfreusable product huse, the system that only adeinto the during use, please ensure that only ade-

Mechanical cleaning Cleaning, disinfection and drving in accordance with DINENISO JS812 2006 and DINE NE US8252006 DINENISO JS812 2006 and DINE DINE DINE cold water for 5 minutes, Then brush the disassembled instruments with a soft nyion trush under water to re-move coarse imputilies. Mechanical cleaning: e.g. using the Miele 8535 CD ura dr 250 cleaning: e.g. using the Miele 8535 CD ura dr 250 cleaner.

Important points All instruments grouple art for cleaning the second second second second second second second we without a drying programme, it is essential that the instruments are always sterilised in a disassem-bled state! The instruments should always be checked for corro-time second of the instruments must still be visible after sterilisation, otherwise the instruments should be replaced.

after sterilisation: otherwise the instruments should be replaced. Not packaging before using for the first time. Preparation of all instruments with cavities is parti-cularly critical. This applies especially to internally cooled drills, placement alids and instruments with checked with internally cooled drills and bone chips and debris could be carried from patient to patient, we recommend using these instruments as single-the cavities and compared to patient. We the could be carried from patient to patient, we recommend using these instruments as single-that the cavities are completely clean. Multi-pati-placement alids should be disassembled for clean-ning. If possible.

https://provide.com/provide

In appropriate proceese (e.g. exy terminate adultiments 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 cleanlines (including the internal acoling sections in of bone drills depends on the hardness of the bone at the site. If in doubt, drills should on by be used once. There is a considerable loss of cutting performance if the tip is damaged. To ensure care of the drills it is the-refore essential to observe the following points: During the operation drills should be placed gently-logical 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 ultra-sonic cleaning

onic 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 con-tainer, which angle or double packaging) and/or sterilisation con-alner, which complies with DIN EN 868-2ff/DIN EN ISO/ANSI AAMI ISO 11607

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Method:
 Fractional pre-vacuum procedure
 Method:
 Fractional pre-vacuum procedure
 (according to ISO 17455 or ISO 13960)
 in o unit that complex with EN 285
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Storage After sterilisation, the instruments must be stored dry and dustfree in the sterilisation packaging. The instru-ments should also be protected against surlight and heat. The maximum storage period (serging date) de-pends 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 be-

sterilisation. Please note the schematic aragram ue-low. RAT2/UnscrewThe coverscrewandremove thepush-od. The push-tod and ratchet housing (inner and outer) must be thoroughly cleaned and then dried. The indi-vidual components of the ratchet are shrink-wrapped that the paper side of the sterilisation bag is placed to that the water vapour can escape and that the rat-chet or its parts are not lying in water. After sterilisation, generally just before the beginning of implant place-ment, the ratchet should be thinly lubricated using as licone oil and reassembled. The function of the ratchet should then be checked before beginning surgery.

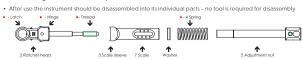
Warnings We do not know of any warnings, provided the instruc-tions for use are followed for the products to be used as well as the corresponding disinfection and cleaning agent.

Dr. Inde Dental AG reserves the right to change the design of the products and components or their pa-ckaging, adapt instructions for use as well as renego-liate 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.

Date of the latest revision: 2017-11

Schematic diagram of the TW/TW2 torque wrench



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 \bigcirc

Pre-clean the individual parts under running cold water using a soft brush. Do not allow blood residue and other adhering depositisto 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 311430 (can be disassembled)



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 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 ultraso-nic cleaner before mechanical cleaning. Manual cleaning including ultrasonic cleaner (see above) and mechanical cleaning should be performed in sequence.

-

Dr. Ihde Dental AG Dorfplatz 11 CH-8737 Gommiswald Tel. +41 (0)55 293 23 23 Fax +41 (0)55 290 23 00 contact@implant.com www.implant.com

Distributed by Dr. Ihde Dental GmbH Erfurter Str. 19 D-85386 Eching CH-897 (J 859 197 Fol 0 E1-497 (J) 89 197 (J) 89 197 Fol 0 E1-497 (J) 89 197 (J) 89 197 (J) 89 197 (J) 89

ООО ВанвейБиомед ВҮ 220123, Беларусь, г. Минск Ул. Кропоткина 84 +375 29 997 99 99 info@swissbiomed.ru

i Read instructions Ω Expiration date STERILE R γ Gamma-sterilized (2) Only use once (11) (11) (11) Do not resterilize NON non sterile STERILE LOT LOT Charge number Ť Keep in a dry place 8 Store tightly keep closed Do not use if packing is damaged Manufacturer

C€1936

Legend

IHDEDENTAL *****

(The products of this catalogue are CE marked (class I) and CE 1936 marked (class IIa and IIb) according to 93/42/EC Directive).

Commercial products that are not monitored by our notified body are declared as third-party products.

We are certified according to DIN EN ISO 13485 and Annex II of Directive 93/42 EEC. The product dimensions shown in this brochure may differ from reality for technical reasons. KOS[®] is a registered trademark. Pat. Pend.

If implants are reprocessed, there is a risk of the development of infections, because no validated method for processing exists. Implants therefore may not be reprocessed.

Compilation and explanation of symbols on the packaging:



Batch No.



Sterilized by gamma radiation



Non-sterile

Intended for use by dentists or surgeons only

Rx ONLY





Instruction

Expiry date









Single use

product



REF

Store in a dry place

Store tightly keep closed

Do not use if packing is damaged

Do not resterilize

Manufacturer

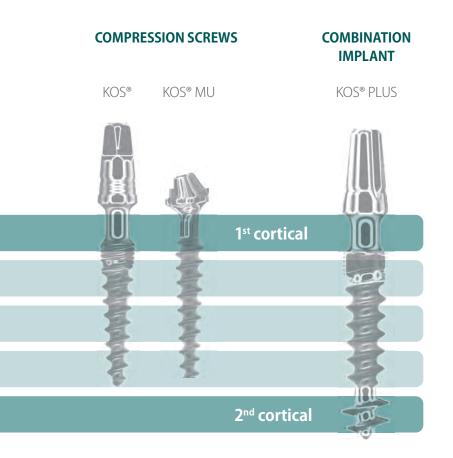
for use

Production

date



Catalogue number



IHDEDENTAL*

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