

APPLICATION AREAS

OF THE ENDOSSEOUS DENTAL IMPLANT SYSTEM GCS®

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, **GCS**[®] 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, **GCS**[®] and **GBC**[®] 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, peri-implantitis, 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 peri-implantitis. In contact with the bone, however, the laser-ablated surface behaves like a rough surface. Rough implants (e.g., GCS[®], Hexacone[®]) and smooth implants (e.g., GBC[®], GCS[®]) therefore have the same recovery rate.

No-Itis® LASER THE SURFACE THAT INCREASES SURVIVAL RATIOS



Rugosity (Ra)	Definition
≤ 0,4 µm	Smooth
0,5 - 1,0 µm	Machined
1,0 - 2,0 μm	Moderately rough
> 2,0 µm	Rough
Rugosity (Ra)	No-Itis® Laser
0,9 µm	Smooth

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

No-Itis® LASER

THE MOST ADVANCED SURFACE A SAFE ANSWER AGAINST PERI-IMPLANTITIS, MAINTAINING THE OSSEOINTEGRATION LONG TERM

surface allows the adhesion of the uniform and extended 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).



Machined surface

Rough surface

Osteogenesis of contact



Distant osteogenesis



No-Itis® Laser Surface

Improved contact osteogenesis

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 A UNIQUE SURFACE of osteonal bone, also directly in contact with the implant.

No-Itis® LASER

RAPID OSSEOINTEGRATION

THE IDEAL SURFACE FOR IMMEDIATE OR EARLY LOADING 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

LOWER RISK OF INFECTIONS

- 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 onewaybiomed GmbH, while regularization of production and stocks, and therefore any reference may not be available on the new No-Itis® Laser surface.

GCS® - INSTRUCTION FOR APPLICATION

PREPARATORY WORK

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 SEQUENCE normal / hard bone			DRILL SEQUENCE soft bone			
Form drill	KDS	Implant	Pilot drill	Form drill	KDS	Implant
	KDS 3.0	GCS 3.0				GCS 3.0
DOS 2	KDS 3.2	GCS 3.2			KDS 3.0	GCS 3.2
DOS 1 KDS 3.7 GCS 3.7 [DOS 1	DOS 1	KDS 3.2	GCS 3.7		
DUS 3 (4)	KDS 4.1	GCS 4.1		DUS Z	KDS 3.7	GCS 4.1
DOS 5	KDS 5.0	GCS 5.0		DOS 3 (4)	KDS 4.1	GCS 5.0
	UENCE norm Form drill DOS 2 DOS 3 (4) DOS 5	Form drill KDS KDS 3.0 DOS 2 KDS 3.2 DOS 3 (4) KDS 3.7 DOS 5 KDS 5.0	Form drill KDS Implant KDS 3.0 GCS 3.0 DOS 2 KDS 3.2 GCS 3.2 DOS 3 (4) KDS 3.7 GCS 3.7 DOS 5 KDS 5.0 GCS 5.0	Form drill KDS Implant Pilot drill KDS 3.0 GCS 3.0 DOS 2 KDS 3.2 GCS 3.2 DOS 2 KDS 3.7 GCS 3.7 DOS 1 MDS 3 (4) KDS 5.0 GCS 5.0 GCS 5.0	DRILL SEQUENCE softForm drillKDSImplantPilot drillForm drillKDS 3.0GCS 3.0DOS 2KDS 3.2GCS 3.2DOS 3 (4)KDS 3.7GCS 3.7DOS 1DOS 2DOS 5KDS 5.0GCS 5.0DOS 3 (4)DOS 3 (4)	Form drill KDS Implant Pilot drill Form drill KDS KDS 3.0 GCS 3.0 DOS 2 KDS 3.2 GCS 3.2 KDS 3.0 DOS 3 (4) KDS 4.1 GCS 4.1 DOS 3 (4) KDS 5.0 GCS 5.0

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







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.
GCS® B	To create the definitive implant cavity for GCS® 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 **GCS**[®] 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 **GCS**[®] 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

GCS® (straight) / GCS® B (flexible)



5. Insertion using manual tools

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



IMPLANTS WITH SMALL HEAD



6. Definitive implant insertion

Using the ratchet, torque ratchet or contra-angle, screw the implant clockwise into the cavity. With **GCS® 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 **GCS**[®] **3.0 & 3.2, GCS**[®] **Micro (all diameters)** and **GCS**[®] **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

GCS 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.





8. Result

All implant heads (except for the **GCS® 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



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



Attachment of the impression post TSPA 5, with anti-rotation protection, for GCS® 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®

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.

IMPLANTS WITH SMALL HEAD



Safeprint® IM

Attachment of the impression post **TSPA 4**, Internally round, for GCS[®], GCS[®] B and GCS® T

Individual crowns



Fill **TSPA 4** inside with Attachment of the impression post TSKPA 4, with anti-rotation protection, for GCS®, GCS® B and GCS® T

Create plaster model

LABORATORY PROCEDURES

Attachment of the impression post onto lab analogues

Individual crowns

IMPLANTS WITH LARGE HEAD



TSPA 5 on IA4/IAU



TSPA 5 on IAK

POB



IA4/IAU IA4/IAU
The modeling is performed on the castable parts PO4/POB (internally round;

for bridges and bars) or PO4A (edged inside; for individual crowns).

 TSPA 5 on IA4/IAU
 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.

IMPLANTS WITH SMALL HEAD



The modeling is performed on the castable parts **P04** (internally round; for bridges and bars) or **P04A** (edged inside; for individual crowns).



 $\left(\bigcap\right)$

TSKPA 4 on IA4/IAU

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

Create plaster model

Lab analogue

Fill in plaster



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.

SYMBOLS FOR IMPLANT PROPERTIES AND PROSTHETIC SOLUTIONS



THE ADVANTAGES OF GCS® CLASSIC AND CLASSIC X IMPLANTS



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GCS® CLASSIC IMPLANTS

Implants with small head for crowns and bridges.

	а	Description	Enossal Ø	Enossal length	Neck Ø	REF	Price cat.
I	g g	GCS 3.0 10	3.0 mm	10 mm	2.0 mm	BM1030	F
b	_	GCS 3.0 12	3.0 mm	12 mm	2.0 mm	BM1031	F
		GCS 3.0 15	3.0 mm	15 mm	2.0 mm	BM1032	F
L L L		GCS 3.2 12	3.2 mm	12 mm	2.0 mm	BM1033	F
		GCS 3.2 15	3.2 mm	15 mm	2.0 mm	BM1034	F
		GCS 3.7 6	3.7 mm	6 mm	2.5 mm	BM6204	F
		GCS 3.7 8	3.7 mm	8 mm	2.5 mm	BM6205	F
d S		GCS 3.7 10	3.7 mm	10 mm	2.5 mm	BM1035	F
		GCS 3.7 12	3.7 mm	12 mm	2.5 mm	BM1036	F
		GCS 3.7 15	3.7 mm	15 mm	2.5 mm	BM1037	F
		GCS 4.1 8	4.1 mm	8 mm	2.8 mm	BM1038	F
×		GCS 4.1 10	4.1 mm	10 mm	2.8 mm	BM1039	F
1	e	GCS 4.1 12	4.1 mm	12 mm	2.8 mm	BM1040	F
	-	GCS 4.1 15	4.1 mm	15 mm	2.8 mm	BM1041	F
a) Abutment Ø	3.35 mm	GCS 4.1 17	4.1 mm	17 mm	2.8 mm	BM1042	F
b) Abutment height	6.8 mm	GCS 4.1 19	4.1 mm	19 mm	2.8 mm	BM1043	F
c) Neck length	3.5 mm	GCS 5.0 10	5.0 mm	10 mm	2.8 mm	BM1044	F
d) Enossal length	6 - 19 mm	GCS 5.0 12	5.0 mm	12 mm	2.8 mm	BM1045	F
e) Enossal Ø	3.0 - 5.0 mm	GCS 5.0 15	5.0 mm	15 mm	2.8 mm	BM1046	F
f) Neck Ø	2.0 / 2.5 / 2.8 mm						
g) Square AF (across flats)	1.9 mm				pog	\sum	lied

GCS 3.0 - 3.2 GCS 3.7 - 5.0 Max. insertion torque 50 Ncm Max. insertion torque 80 Ncm

INCLUSIVE

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

Double analogue, plastic

BM5118

Impression post castable, internally edged, for large head PA X BM1429

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

BM1394

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



REF

Price cat.

GCS® CLASSIC X IMPLANTS

Large head for easy prosthetic handling.



a) Abutment Ø	3.9 mm
b) Abutment height	7.2 mm
c) Neck length	3.0 mm
d) Enossal length	8 - 19 mm
e) Enossal Ø	3.0 - 5.0 mm
f) Neck Ø	2.0, 2.5, 2.8 mm

GCS X 3.0 10	3.0 mm	10 mm	2.0 mm	BM1110	F
GCS X 3.0 12	3.0 mm	12 mm	2.0 mm	BM1111	F
GCS X 3.0 15	3.0 mm	15 mm	2.0 mm	BM1112	F
GCS X 3.2 12	3.2 mm	12 mm	2.0 mm	BM1113	F
GCS X 3.2 15	3.2 mm	15 mm	2.0 mm	BM1114	F
GCS X 3.7 10	3.7 mm	10 mm	2.5 mm	BM1115	F
GCS X 3.7 12	3.7 mm	12 mm	2.5 mm	BM1116	F
GCS X 3.7 15	3.7 mm	15 mm	2.5 mm	BM1117	F
GCS X 4.1 8	4.1 mm	8 mm	2.8 mm	BM1118	F
GCS X 4.1 10	4.1 mm	10 mm	2.8 mm	BM1119	F
GCS X 4.1 12	4.1 mm	12 mm	2.8 mm	BM1120	F
GCS X 4.1 15	4.1 mm	15 mm	2.8 mm	BM1121	F
GCS X 4.1 17	4.1 mm	17 mm	2.8 mm	BM1107	F
GCS X 4.1 19	4.1 mm	19 mm	2.8 mm	BM1108	F
GCS X 5.0 10	5.0 mm	10 mm	2.8 mm	BM1122	F
GCS X 5.0 12	5.0 mm	12 mm	2.8 mm	BM1123	F
GCS X 5.0 15	5.0 mm	15 mm	2.8 mm	BM1109	F

Enossal length Neck Ø

Enossal Ø



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

Description

Double analogue, plastic

IA4/IAU BM5118



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

BM1429

Impression post castable, internally round, for small head **TSPA 4 BM1394**

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



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THE ADVANTAGES OF GCS® B IMPLANTS



GCS® B IMPLANTS WITH SMALL HEAD FOR BRIDGES

GCS® 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.
GCS B 3.0 15	С	3.0 mm	15 mm	BM1019	F
GCS B 3.2 12	D	3.2 mm	12 mm	BM1020	F
GCS B 3.2 15	E	3.2 mm	15 mm	BM1021	F
GCS B 3.7 12	F	3.7 mm	12 mm	BM1022	F
GCS B 3.7 15	G	3.7 mm	15 mm	BM1023	F
GCS B 4.1 15	L	4.1 mm	15 mm	BM1024	F
GCS B 4.1 17	Μ	4.1 mm	17 mm	BM1025	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.



f) Neck Ø 1.8 mm

a) Abutment Ø

c) Neck length

e) Enossal Ø

d) Enossal length

b) Abutment height

Max. insertion torque 45 Ncm



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

IA4/IAU BM5118

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

Double analogue, plastic

BM1429

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

BM1394

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 GCS® 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.



3.35 mm

6.8 mm

3.0 mm

12 - 17 mm

3.0 - 4.1 mm

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*	BM1394	В
	ALTERNATIVE Impression post made of POM Castable, internally round	Pack of 5	TSPA 4*	BM1372	В
	Impression post Castable, internally edged	Pack of 5	TSKPA 4	BM1395	В
	Double analogue, plastic For large and small head	Pack of 5	IA4/IAU	BM5118	В
	Double analogue, metal For large and small head	1 piece	IA4/IAU	BM5119	A
	Castable abutment and base for provisionals For small head 7 mm high, white, internally round	Pack of 5	P04	BM1317	В
	Castable abutment and base for provisionals 7 mm high, white, internally edged	Pack of 5	PO4A	BM1318	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	F
Scanner analogue IAS 4 For small head	E
Scanner analogue IAS 5 For large head	E

REF	Price cat.
BM5124	B
3M5125	В



Use example for self-descriptive scanner analogue

CEMENTABLE ANGULATION ADAPTER (TI6AL4V)

These adapters are mounted on GCS° 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.



REF

BM1308

Price cat.

С



Description	Code	REF	Price cat.
Adapter, 15° For small head	AA15 KK	BM1303	С
Adapter, 25° For small head	AA25 KK	BM1305	С
Adapter, 15° For large head	AA5 15°	BM1197	С
Adapter, 25° For large head	AA5 25°	BM1198	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	Height	Code
Adapter 15°	7.5 mm	AAL 15 KK
For small head		
Reducible and castable		
Pack of 5		

LAB ANALOGUE



Description	Code	REF	Price cat.
Abutment analogue for angulation adapter For small head	AAA	BM1309	В
15° and 25°			

CASTABLE PART AND IMPRESSION CAP



Description	Code	REF	Price cat.
Castable abutment and transfer for AAA	ΡΑΑΑΑ	BM1310	В
Pack of 5			

KDS BONE EXPANDING SCREWS

For all GCS® 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 GCS® 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 GCS® 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	BM1173	F
KDS 3.0 12	В	3.0 mm	12 mm	2.0 mm	BM1174	F
KDS 3.0 15	С	3.0 mm	15 mm	2.0 mm	BM1003	F
KDS 3.2 12	D	3.2 mm	12 mm	2.5 mm	BM1175	F
KDS 3.2 15	E	3.2 mm	15 mm	2.5 mm	BM1176	F
KDS 3.7 12	F	3.7 mm	12 mm	2.8 mm	BM1177	F
KDS 3.7 15	G	3.7 mm	15 mm	2.8 mm	BM1004	F
KDS 4.1 8	Н	4.1 mm	8 mm	2.8 mm	BM1178	F
KDS 4.1 10	1	4.1 mm	10 mm	2.8 mm	BM1179	F
KDS 4.1 12	К	4.1 mm	12 mm	2.8 mm	BM1180	F
KDS 4.1 15	L	4.1 mm	15 mm	2.8 mm	BM1005	F
KDS 4.1 17	М	4.1 mm	17 mm	2.8 mm	BM1181	F
KDS 4.1 19	Ν	4.1 mm	19 mm	2.8 mm	BM1182	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 **GCS® B** implant is inserted. With the **GCS® B** (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 GCS® implants with microthread.



GCS® PLUS IMPLANTS

GCS® PLUS are made in one piece and have a polished apical cutting thread for anchorage in the opposite cortical. GCS® 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 GBC**.



Description	Neck Ø	Compression thread	Enossal length	REF	Price cat
GCS 3.7 9+3	2.5 mm	9 mm	12 mm	BM1140	G
GCS 3.7 11+3	2.5 mm	11 mm	14 mm	BM1141	G
GCS 3.7 13+3	2.5 mm	13 mm	16 mm	BM1142	G
GCS 3.7 16+3	2.5 mm	16 mm	19 mm	BM1143	G
GCS 3.7 20+3	2.5 mm	20 mm	23 mm	BM1136	G
GCS 4.1 6+3	2.8 mm	6 mm	9 mm	BM1144	G
GCS 4.1 9+3	2.8 mm	9 mm	12 mm	BM1145	G
GCS 4.1 11+3	2.8 mm	11 mm	14 mm	BM1146	G
GCS 4.1 13+3	2.8 mm	13 mm	16 mm	BM1147	G
GCS 4.1 20+3	2.8 mm	20 mm	23 mm	BM1138	G
GCS 5.0 6+3	2.8 mm	6 mm	9 mm	BM1148	G
GCS 5.0 9+3	2.8 mm	9 mm	12 mm	BM1149	G
GCS 5.0 11+3	2.8 mm	11 mm	14 mm	BM1150	G
GCS 5.0 13+3	2.8 mm	13 mm	16 mm	BM1151	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

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

Double analogue, plastic

IA4/IAU BM5118



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

BM1429

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

BM1394

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



(not secured against rotation).

EXAMPLE OF USE OF GCS® PLUS IMPLANTS







in the area of the nasal floor.



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

NOTE - GCS® 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.). **GCS® 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 GCS® TX IMPLANTS

Compression screw implant with an extended polished and bendable neck For anchorages in the tuberosity and in regions with large mucosal thickness

> Is preferably used without flap preparation

The nominal Ø is reached at the widest part of the compression thread

GCS® TX IMPLANTS

GCS® 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. GCS® 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.
<u>a</u>	GCS TX 3.0 12	3 mm	12 mm	BM1610	F
	GCS TX 3.0 15	3 mm	15 mm	BM1611	F
	GCS TX 3.0 18	3 mm	18 mm	BM1612	F
-14	GCS TX 3.7 12	3.7 mm	12 mm	BM1615	F
W	GCS TX 3.7 15	3.7 mm	15 mm	BM1616	F
f	GCS TX 3.7 18	3.7 mm	18 mm	BM1617	F
	GCS TX 4.0 12	4 mm	12 mm	BM1060	F
R	GCS TX 4.0 15	4 mm	15 mm	BM1061	F
	GCS TX 4.0 18	4 mm	18 mm	BM1062	F
	GCS TX 4.0 21	4 mm	21 mm	BM1063	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



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



IA4/IAU

BM5118

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

Double analogue, plastic

BM1429

Impression post castable, internally round, for small head TSPA 4 BM1394

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



ACCESSORIES

Analogue **IAB** Pack of 5

REF BM5120 Price cat. B Impression post **TSPA 5** Pack of 5

> REF BM1393 Price cat. B

The red impression cap and the red analogue are round (not secured against rotation).

INSERTION TOOLS

		Description	Code	REF	Price cat.
	0	Insertion tool long, for large head Use with RAT 2 or TW2	UST 1 M	BM2064	Е
	0	Insertion tool short, for large head Use with RAT 2 or TW2	UST 2 M	BM2110	Е
Ham	0	Length 23 mm, for GCS and GBC implants	IT2W	BM3339	E
	0	Adapter for implants with large head For handgrip 311431 (see page 50)	Adapter UST 1	BM2063	F

IMPRESSION TAKING AND LABORATORY ACCESSORIES

	Description	Unit	Code	REF	Price cat.
T	Impression post castable, POM Internally round	Pack of 5	TSPA 5*	BM1393	В
T	Impression post castable Internally edged	Pack of 5	ΡΑΧ	BM1429	В
	Double analogue, plastic For large and small head	Pack of 5	IA4/IAU	BM5118	В
	Double analogue aus Metal For large and small head	1 piece	IA4/IAU	BM5119	Α
	Castable abutment for large head Internally round	Pack of 5	POB	BM5121	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 GCS® MU IMPLANTS



GCS® MU IMPLANTS

GCS® MU implants feature a pre-angulation of 15 degrees. GCS® 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 .	Description	Enossal Ø	Enossal length	REF	Price cat.
b J g	GCS MU 3.0 15	3.0 mm	15 mm	BM1152	L
-	GCS MU 3.2 12	3.2 mm	12 mm	BM1233	L
c f	GCS MU 3.2 15	3.2 mm	15 mm	BM1234	L
Ī 💭	GCS MU 3.7 10	3.7 mm	10 mm	BM1235	L
	GCS MU 3.7 12	3.7 mm	12 mm	BM1236	L
	GCS MU 3.7 15	3.7 mm	15 mm	BM1153	L
d A	GCS MU 4.1 8	4.1 mm	8 mm	BM1237	L
	GCS MU 4.1 10	4.1 mm	10 mm	BM1238	L
	GCS MU 4.1 12	4.1 mm	12 mm	BM1154	L
	GCS MU 4.1 15	4.1 mm	15 mm	BM1155	L
I e	GCS MU 5.0 10	5.0 mm	10 mm	BM1156	L
	GCS MU 5.0 12	5.0 mm	12 mm	BM1139	L
a) Abutment Ø	4.8 mm		-		
b) Abutment height	3.7 mm		dable		LI MB
c) Trans-mucosal height	3 mm		Ben		Sor
d) Enossal length	8 - 15 mm				
e) Enossal Ø	3.0 - 5.0 mm				
f) Neck Ø	2 mm				
g) Height of connecting part	2 mm				
Prosthetic screw	SFK MU				

MULTI-UNIT LAB SET



Description Titanbasis Use with SF K MU	Code T-Base MU	REF BM3169	Price cat.
Castable abutment Use with T-Base and SF KMU	PA2 MU	BM3170	
Prosthetic screw For GCS® MU and GBC® MU	SF K MU	BM3159	
COMPLETE SET		BM3112	E

ACCESSORIES SINGLE-PIECE MULTI-UNIT IMPLANTS

	Description		Code	REF	Price cat.
	Insertion tool for GCS® MU, GBC® MU and Hexacone® Plus MU 15° Use with IT2 GBC, IT2 S GBC, AH MU Tool HT 1.25		ITX MU15	BM3222	G
	Insertion tool long For large head Use with RAT2 and TW2, length 19 mm		UST 1 M	BM2064	E
	Insertion tool short For large head Use with RAT2 and TW2, length 7 mm		UST 2 M	BM2110	E
	Adapter for handgrip Fits ITX MU15 (REF BM3222)		Adapter UST 1	BM2063	F
	Description		Code	REF	
-	Hex Instrument 1.25, length 14 mm	short	HTS 1.25	BM3023	С
	Hex Instrument 1.25, length 21 mm	medium	HT 1.25	BM3022	С
	Hex Instrument, length 45 mm	long	HTX 1.25	BM7764	с
	Scan abutment for MU implants Incl. screw SSA MU Sterilisable, two-part, material Ti6Al4V		SAB MU	BM3135	D
ſ	Prosthetic screw for GCS® MU and GBC® MU		SF K MU	BM3159	В
Parts for passive connection of the bridge frame	Castable abutment Use with T-Base and SF K MU		PA2 MU	BM3170	В
	Titanium base * Use with SF K MU (REF 418164) For GCS® MU, GBC® MU and Hexacone® Plus	MU	T-Base MU	BM3169	В
ſ	Prosthetic screw For GCS® MU and GBC® MU		SF K MU	BM3159	В
Parts for UCLA technique	Castable abutment UCLA For direct use on MU implants SF K MU sold separately		PA MU	BM3200	В
Part for UCLA technique & passive connection	Digital lab analogue for MU implants* For GCS® MU, GBC® MU and Hexacone® MU		IA K MU	BM3178	В
	Long screw for prosthetic use or as pick-up screw for use with HLT MU Tool: HT 1.25, material Ti6Al4V		SFLMU	BM3218	В
	Transfer for pick-up impressions Straight Delivery incl. SFL MU	Works with all MU implants	HLT MU	BM3152	С
	Temporary base SF K MU or SFL MU sold separately	/	TC MU	BM3151	D

* PLEASE GO TO HTTPS://IMPLANT.COM/EN/DOWNLOADS TO DOWNLOAD THE CORRESPONDING STL FILES SEE PAGE 49 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.



T-Base is sandblasted from the outside and cleaned

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



5.

4.

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.



6.

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

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



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



Fix castable

with screw.

Gypsum

SF K MU

T-Base

IA K MU





THE ADVANTAGES OF GCS® K IMPLANTS



34 Endosseous dental implant system GCS®

GCS® K IMPLANTS

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





Description	Code KDS	Enossal Ø	Enossal length	REF	Price cat.
GCS K 3.0 12	В	3.0 mm	12 mm	BM1169	F
GCS K 3.0 15	С	3.0 mm	15 mm	BM1168	F
GCS K 3.7 12	F	3.7 mm	12 mm	BM1170	F
GCS K 3.7 15	G	3.7 mm	15 mm	BM1171	F
GCS K 4.1 15	L	4.1 mm	15 mm	BM1172	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 hexagon	1.8 mm

ACCESSORIES

Description		Unit	Code	REF	Price cat.
IAK Lab analogu	Je		IAK	BM1324	В
Nylon cap trans (EXTERNAL PR	parent, Pull-off force ca. 1200g ODUCT)	Pack of 2	NC	465028	A1
Nylon cap pink, (EXTERNAL PR	Pull-off force ca. 800g ODUCT)	Pack of 2	NC 1	465029	A1
Nylon cap yellov (EXTERNAL PR	w, Pull-off force ca. 500g ODUCT)	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 (EXTERNAL PR	all nylon caps ODUCT)		н	465031	В
Giessbare Kuge	l for einteiligen Abdruck with Stegver	bindung	PA SB	BM6652	А

BALL ADAPTER (SPARE BALL)





Ball adapter for GCS® K implants, cementable



REF Price cat. BM1328 B

INSERTION TOOLS

		Description For GCS, GCS B, KDS	Type long	Length 20 mm	Code IT K	REF BM1336	Price cat. D
		For GCS, GCS B, KDS	extralong	45 mm	ІТХ К	BM1337	D
		For GCS, GCS B, KDS	short	7 mm	UST 1 S	BM1338	D
-	Hex	For GCS, GCS B, KDS Only for W&H contra-angle with new drive	contra-angle/ hex	23 mm	ІТШН К	BM1339	D
		For GCS, GCS B, KDS	contra-angle	23 mm	ITWK	BM1340	D
		For GCS K	long	20 mm	ІТ ТВ К	BM1345	D
		For GCS B Emergency tool for retrieving GCS® B	long	20 mm	Tool E	BM3336	D

INSTRUMENTS AND **TOOLS**



Description	Length	Code	REF	Price cat.
Drill extension Extends by 19 mm		DX 2	BM1349	D
Standardized probe. 1 mm scale For radiological measurements	22 mm	PDG	BM1350	Α
Radiological measure pin Fits DOS 1		RMS	BM1364	Α
Ratchet for all Hex instruments and insertion tools		RAT2	BM1352	К
Torque wrench 10-70 Ncm		TW2 *	BM1356	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	BM6026	F
Hard metal bone cutter long, for FG	36 mm	SHMC L	BM6027	F

HANDGRIP SELF LOCKING, CANNOT BE DISMANTLED

Please note the cleaning instructions on www.implant.com/en/downloads

		DRILLS				
		Description Adapter	Length 100 mm	Code BCD 1 Adapter	REF BM1222	Price cat. F
	Length 110 mm	Twist Drill	110 mm	Twist Drill 2.0	BM1220	F
	REF BM1360 Price cat.	INSERTION TOOL	S			
	v	Description For GCS®, GCS® B, KDS, GBC 3.5, GBC 4.5	Length 70 mm	Code Adapter UST 2	REF BM2062	Price cat. D
W		For GCS [®] X, GCS [®] TX, GCS [®] Plus, GBC 3.6, GBC 4.6, ab > 5.5	70 mm	Adapter UST 1	BM2063	F

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	BM1222	
Twist Drill 2.0	110 mm	BM1220	
Adapter UST 2	70 mm	BM2062	
Adapter UST 1	70 mm	BM2063	
Handgrip	110 mm	BM1360	
Handgrip tray w/o content		BM2061	upon request
Handgrip tray with content		SBM2061	upon request

Please read our detailed instructions for cleaning and re-sterilization of surgical instruments on https://implant.com/en/downloads **INSTRUMENT T**RAY FOR GCS[®] AND GBC[®]



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 GBC	GCS/GBC	large	BM2064	Twist Drill 2.0 30	GBC *	BM1362	
IT2 S GBC	GCS/GBC	large	BM2110	Twist Drill 2.0 21	GBC *	BM1361	
IT2 W	GCS/GBC	large	BM3339	Twist Drill 2.5 21	GBC *	BM1363	
ITK	GCS/GBC	small	BM1336	BCD 1	GCS/GBC	BM2100	
UST 1 S	GCS/GBC	small	BM1338	BCD 2	GCS/GBC	BM2101	
ITW K	GCS/GBC	small	BM1340	BCD 3	GCS/GBC	BM2102	
ITWH K	GCS/GBC	small	BM1339	BCDX 1	GCS/GBC	BM2103	
DOS 1	GCS		BM1330	BCDX 2	GCS/GBC	BM2104	
DOS 2	GCS		BM1331	BCDX 3	GCS/GBC	BM2105	
DOS 3	GCS		BM1332	RMS	GCS/GBC	BM1364	
DOS 4	GCS		BM1333	RMS	GCS/GBC	BM1364	
DOS 5	GCS		BM1334	DX 2	GCS/GBC	BM1349	
C-Drill KM 1	GCS		BM1071	TW2	GCS/GBC	BM1356	
C-Drill KM 2	GCS		BM1072				
C-Drill KM 3	GCS		BM1073	Instrument tray w/o d	ontent	BM4264	upon request
DS 2	GCS		BM1359	Instrument tray with	content	SBM4264	upon request
IT TB K	GCS		BM1345				

* The content for the system GBC[®] is optional

DRILLSTOP TRAY

		N	ot suitab	le for c	dry heat s	terilizers	Description	REF	Price €
							Drillstopp B	BM1501	
T	iefe	Drills	Drillstop	Tiefe	Drills	Drillstop	Drillstopp C	BM1502	
G	CS 3.	0 (3.2)	ĸ	GCS 4	.1		Drillstopp D	BM1503	
	2	DOS 1	н	10	DOS 3	ĸ	Drillstopp F	BM1505	
1		DOS 1	D	12 15	DOS 3 DOS 4	н к	Drillstopp H	BM1507	
G	CS 3.	.7		17	DOS 4	н	Drillstopp K	BM1510	
	2	DOS 2 DOS 2	н	19	DUS 4	F	Drillstopp L	BM1511	
	5	DOS 2	D	GCS 5	.0	ĸ	Drill DOS 1	BM1330	
KOS				12	DOS 5 (6)	н	Drill DOS 2	BM1331	
INFORMALT OF	1			15	DOS 5 (6)	D		BM1332	
HUL								DM1332	
_ The first the	ant -	E	5				DHII DUS 4	BIVITSSS	
	a solit		E				Drill DOS 5	BM1334	
	(12)	in man and states	-				Drill DOS 6	BM1335	
and an	5						Tray with content	BM4209	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	BM1336	
UST 1 S	BM1338	
C-Drill KM 1	BM1071	
C-Drill KM 2	BM1072	
C-Drill KM 3	BM1073	
UST 1 M	BM2064	
UST 2 M	BM2110	
DOS 1	BM1330	
DOS 2	BM1331	
DOS 3	BM1332	
BCDX 1	BM2103	
Torque wrench TW2	BM1356	_
HT 1.25	BM3022	ional
ITX MU 15	BM3222	col t
Starter tray w/o content	BM6500	upon request
Starter tray with content	SBM6500	upon request

INDICATIONS GCS® II GCS® 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 GCS® 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 GCS® or GCS® 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 ${\tt GCS}^{{\tt s}}$ screws
- If in doubt, angulation adapters on GCS® screws are preferable to the GCS® 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 GCS® M IMPLANTS



GCS® 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 GCS[®] M / GCS[®] 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 GCS 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 GCS® 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

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

GCS® M IMPLANTS WITH SMALL ABUTMENT HEAD

GCS® 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.
GCS M 3.0 10	3.0 mm	10 mm	2 mm		BM6252	F
GCS M 3.0 12	3.0 mm	12 mm	2 mm		BM6253	F
GCS M 3.0 15	3.0 mm	15 mm	2 mm	or	BM6254	F
GCS M 3.2 12	3.2 mm	12 mm	2 mm	BCD 1	BM6255	F
GCS M 3.2 15	3.2 mm	15 mm	2 mm		BM6256	F
GCS M 3.7 6	3.7 mm	6 mm	2 mm		BM6250	F
GCS M 3.7 8	3.7 mm	8 mm	2 mm		BM6251	F
GCS M 3.7 10	3.7 mm	10 mm	2 mm	or	BM6257	F
GCS M 3.7 12	3.7 mm	12 mm	2 mm	BCD 2	BM6258	F
GCS M 3.7 15	3.7 mm	15 mm	2 mm		BM6259	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



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



Double analogue, plastic

IA4/IAU BM5118

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

BM1429



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

BM1394

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







GCS® MICRO IMPLANTS WITH LARGE ABUTMENT HEAD

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



Description	Enossal Ø	Enossal length	Neck Ø	Drill *	REF	Price cat.
GCS Micro 3.7 6	3.7 mm	6 mm	2.0 mm	DOS 2 / BCD 2	BM1460	F
GCS Micro 3.7 8	3.7 mm	8 mm	2.0 mm	DOS 2 / BCD 2	BM1461	F
GCS Micro 3.7 10	3.7 mm	10 mm	2.0 mm	DOS 2 / BCD 2	BM1462	F
GCS Micro 3.7 12	3.7 mm	12 mm	2.0 mm	DOS 2 / BCD 2	BM1463	F
GCS Micro 3.7 15	3.7 mm	15 mm	2.0 mm	DOS 2 / BCD 2	BM1464	F
GCS Micro 4.1 8	4.1 mm	8 mm	2.0 mm	DOS 3 / BCD 3	BM1470	F
GCS Micro 4.1 10	4.1 mm	10 mm	2.0 mm	DOS 3 / BCD 3	BM1471	F
GCS Micro 4.1 12	4.1 mm	12 mm	2.0 mm	DOS 3 / BCD 3	BM1472	F
GCS Micro 4.1 15	4.1 mm	15 mm	2.0 mm	DOS 3 / BCD 3	BM1473	F
GCS Micro 510	5.0 mm	10 mm	2.0 mm	DOS 5	BM1475	F
GCS Micro 512	5.0 mm	12 mm	2.0 mm	DOS 5	BM1476	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) Abutmant Ø	2.0 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



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



IA4/IAU BM5118

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

Double analogue, plastic

BM1429

Impression post castable, internally round, for small head TSPA 4 BM1394

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	BM1394	В
	Impression post castable, POM Internally round	Pack of 5	TSPA 4	BM1372	В
	Castable abutment and base for provisionals For small head 7 mm high, white, internally round	Pack of 5	P04	BM1317	В
	Double analogue, plastic For large and small head	Pack of 5	IA4/IAU	BM5118	В
	Double analogue, metal For large and small head	1 piece	IA4/IAU	BM5119	Α
FOR LARGE HEAD	Impression post castable Internally edged	Pack of 5	PA X	BM1429	В
	Castable abutment for large head Internally round	Pack of 5	РОВ	BM5121	В



TITANIUM CAPS



Description	Material	Code	REF	Price cat.
Titanium cap, radio opaque For small head	Ti6Al4V weldable	MA4	BM6024	В
Titanium cap, radio opaque For large head	Ti6Al4V weldable	MA5	BM6025	В

CORTICAL MILLING FOR GCS® M AND GCS® MICRO



Description		Code	REF	Price cat.
C-Drill KM1 3.0 - 3.2	Cortical milling	C-Drill KM1	BM1071	E
C-Drill KM2 3.7 - 4.1	Cortical milling	C-Drill KM2	BM1072	E
C-Drill KM3 5.0	Cortical milling	C-Drill KM3	BM1073	E

					View from top
Description	Scanbody-4 Cylyndrical, for small head	Description	Scanbody-5 Cylyndrical, for large head	Description	Scanbody-MU Cylyndrical
Systems	GCS®, GBC®	Systems	GCS®, GBC®	Systems	GCS® MU, GBC® MU, GIH® MU
REF	BM1561	REF	BM1562	REF	BM1563
Price cat.	B (Pack of 5)	Price cat.	B (Pack of 5)	Price cat.	B (Pack of 5)
					View from top
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	GCS®, GBC®	Systems	GCS®, GBC®	Systems	GCS® MU, GBC® MU, GIH® MU
REF	BM5126	REF	BM5127	REF	BM5128
Price cat.	C (Pack of 5)	Price cat.	C (Pack of 5)	Price cat.	B (1 piece)

SCANBODIES MATERIAL PEEK/POM

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.

DOLT
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	Description	Colour	Max. working length	REF	Price cat.
-	DOS 1	yellow	17 mm	BM1330	D
200	DOS 2	black	17 mm	BM1331	D
-	DOS 3	red	17 mm	BM1332	D
-	DOS 4	blue	21 mm	BM1333	D
-	DOS 5	green	17 mm	BM1334	D
	DOS 6	transparent	15 mm	BM1335	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	Length	Code	REF	Price cat.
	0	Insertion tool short, for large head Use with RAT 2 and TW2	7 mm	UST 2 M	BM2110	E
	0	Insertion tool long, for large head Use with RAT 2 and TW2	19 mm	UST 1 M	BM2064	E
	0	Insertion tool for large head Use with contra-angle	23 mm	IT2W	BM3339	E
	0	Insertion tool long, for small head Use with RAT 2 and TW2	20 mm	ІТ К	BM1336	D
	0	Insertion tool short, for small head Use with RAT 2 and TW2	7 mm	UST 1 S	BM1338	D
	0	Insertion tool for small head Use with contra-angle	23 mm	ІТ К	BM1340	D
		Torque wrench 10 - 70 Ncm		TW2	BM1356	S
	0	Adapter for large head	70 mm	Adapter	BM2063	F
		Use with handgrip		UST 1		
	0	Adapter for small head Use with handgrip	70 mm	Adapter UST 2	BM2062	D
		For machine reprocessing, cannot be dismantled Clean in an ultrasonic bath at 45° with an alkaline cleaning agent	110 mm		BM1360	v

For adapter, self-locking



EN

MANUFACTURER'S INFORMATION regarding the preparation of resterilisable medical devices complles with EN ISO 17664 Please read carefully!

dical devices which may be re-processed are

- Iadis for abutments and screws
 torques control instruments and ratchests
 instruments for preparing endosseous bone cavities (drills, outlers)

- cutten) I Bone expansion sciews and distractors Drill guide slews. Abuffreint and sciews, pioxided they do not remain in/ with the patient between individual reactment appoint-ments and are not used on other patients. They mould be stored by the approximative ment they through be stored by the approximative ment they through be taken a constraint of the patient's size both the patient's size of the placement of implants and bone preparation.

Re-usability Frequent re-processing has infusionce on the product espe-cially if high respectatures are applied for standardim. Drills to barne cavilies should be used only 10 times, fools and rotchell, may be used along as they 110 times, fools and rotchell, may be used along as they 110 times, fools and and re-processing, of instrument. Damaged instruments and restruments showing sign of wear must be discarded. Ubbility of time manufacturer is void, if these restictions are not regarded.

- Legal bases The following legal bases, regulations and recommenda-tions are applied with regard to the products mentioned above: (Cermany) Directive 59/42 EEC Medical device regulations (which is valid in the country where the medical device is used or tractment or where the functionality of the medical device is being evalua-leg)
- fed) Bundesgesundheitsblatt (Federal Health Gazette) 2001 : 44:1115-1126

44; 1113-1126 Hygiene requilements for the processing of medical devices (Recommendation of the Commission for Napital Hygiene (Recommission for Krantenhoustygiene) of the Robert-Koch Institute and the Federal Ministry for Brugs and Medical Devices (Bandesministeriums for Arznelmitter und Medizin produkte).

legal information: Implants and other, components of the implant system Distant, 60.4 62.5 85CES, GBC as well as KOS PLUS (boron-implant) according to the Consensus on bacia/intelegic implant) according to the Consensus on bacia/intelegic implants, the www.implantfaundation.org/en/consensus append; dire tool any to leave a provide the system with radio the suice of the system. This demand for further and continu-ous education is also valid for advising pratients before and atter the procement of the implants.

our education is and valid for advising patients before and after the pactement of the incident. **Ceneral principles** All invadable products must be classified the initial use of products there are useful and another initial as patients the initial use of products there are useful and another initial as a patient cleaning and advised the initial assertial for effective stemilisation. Special clean-ing/uteristication structures that be advised for the initial useful assertial for effective stemilisation. Special clean-ing/uteristication structures that be operator in series on the initial advised to a load leggi and the patients in the operator in the operator is the observed. As the operator in series of the oriel and product products the observed. As the operator in series advised to advise the advised as a structures the oriel and product products the the different guidelines regar-ting affactive prior inschulation. Important . Always ware protective gloves for your own safely when handling com-zoninated intruments and the matching. Instruments handle have a language as that they canned come. I units and intruments and come in how contact, as althers when your own safely or a they induce the theory and as that they canned come. I units and intrument addition is portable to the provide the as-ing affactives. And a structures are induced as a structures of the orient additional that they canned come in the contact, as althers when your own and the provide or the contact as althers when your own and the provide or the induced be individually duity. I have have the individual blob individually duity. I have have the contact and the individually duity. I have have the contact and the provide the individually duity. I have have the contact and the provide the individually duity. I have have the contact and the provide the individually duity. I have have the contact and the

Care instructions of surgical steel instruments Surgical steel instruments can quickly became damaged with inadequate or incorrect gave. Only commercially available solvents should be used for surgical steel. If in dou-ble carbot commercial carbot dambut

- avoiation waivems should be used for singles interms in a doubt bit contect enewsybiomed dmbH. The following are hot recommended: Disinfection/cleaning agent with a high oxailc acid content.
- content The following are not recommended for instruments with colour coding 1 foo high advent concentration, disinfection/cleaning, agent with the ingradient mentioned above 1 foo high temperatures with reschandcal cleaning and ste-nisation: never higher than 1357 C

Conditioning Coate insputties must be removed from the products immediately offer use (within 1-2 this maximum). Surgical residue (block sectedors, Nause residue) hould not be if the sector of the sector of the sector of the sector point, violage and pre-disinfection-cleaning immediately differ use on adject the instrument should be placed in a disinfector solution immediately differ surger, For tem-point, violage and pre-disinfection-cleaning immediately differ use on adject the instrument of the placed in a disinfector solution immediately differ surger, For tem-point, violage and pre-disinfection-cleaning immediately differ use on adject the solution of the placed in the sector of the sector of the sector of the sector through the sector of the sector of the sector of the sec-tor of the sector of the sector of the sector of the sec-tor of the sector of the sector of the sector of the sec-tor of the sector of the sector of the sector of the sec-tor of the sector of the sector of the sector of the sec-tor of the sector of the sector of the sector of the sec-tor of the sector of the sector of the sector of the sec-tor of the sector of th

- used, . Encrustations must be thoroughly temoved using rylon
- Encruitations must be thoroughly territored using hyton brushed
 Encruited blacd can alto be dissolved using hydrogen peroxide 3%
 Instrument disinfectant (esidues can be removed by lin-ulng several time; with water.

Cleaning/disintection onewayblamed Gmbit re-for cleaning and divintection onewayblamed Gmbit re-commends the use off instrument divintection (and concentration) and indivinte-ted in graction times with high bacteristic loading (5 min), there were using other products for cleaning and divi-tement were using other products for cleaning and divi-tement were using other products for cleaning and divi-

Ensure when using other products for cleaning and disin-fection. • that the products are basically suitable for the cleaning, and disinfection (instruments) • that the cleaning and disinfection agent – if applicable-issuitable for ultrasmic cleaning (no forming) • that a cleaning and disinfection agent with proven alti-cacts (e.g. DefM of FDA approved and CE Mark) is used • that the chemicals used are compatible with the instru-ments' adulted cleaning cluthors thould be preferred. A presequisite for the use of a cambined cleaning/disin-fection agent is very low bacterial previously for the in-strument. The concentrations and reacting (no within by the manufacturer of the cleaning-disinfection agent must be stript adhered to the area them and adultations (mark a) and CE and the cleaning (or disinfection) and the administration and the stript (or disinfection) and the administration of the stript (or disinfection) and that the administration of the theory of information and the administration of the stript (or disinfection) and the administration of the stript of administration and the content and the administration of the theory (or disinfection) and the administration of the stript of administration and the administration of the stript (or disinfection) and the administration of the stript (or disinfection) and the administration of the stript of the stript of the stript of the administration of the stript of the stript (or disinfection) and disinfection and the stript of the stript (or disinfection) and the stript of the stript of

Process: Cleaning and disinfection

Automatic cleaning and administration combination with the cleaning and distintection with the combination with the cleaning agent recommended by the unit manufacturer. Recedure: Insert the instruments to that the liquid can tow out of the arian tubes and bind holes. Set the cycle and adhere to the unit manufacturer's weak and fines three. The cleaned comparent should be examined for visible airt when remo-ving the instruments (I necessary, repeat the cycle or clean manufily.

Manual Cenning Theroughly clean disinfection/cleaning agent from the in-strument by mining them with water and if required, with the aid of a soll hyten bruch, different control of the components in a backet, avoid occustic stradaws. Add an enzymatic cleaning agent to the water and clean the component of a tom-perature of 40 - 50°C in the ultrasonic cleaner (35-40 Mtg). Io 3 minutes. Ensure that the components are immered competely in the water without bubbles. There remove the instrument from the cleaning solution and water without bubbles. The dry the instrument water for this stage. If passible. Then dry the instrument from the cleaning solution.

- possible. 3. Then dry the instruments with compressed air 4. Check the instrument witably and repeat the cleaning straps, if necessary. 5. Pack the instrument of soon as possible atter removal (see Section "Packaging". If necessary atter drying agoin of a clean location). 6. Document the opproval.

Mechanical cleaning Cleaning, disinfection and drying in accordance with DIN-ENG 53583-12065 and DINEN 13833/2006 Pre-cleaning: Place the dipasembled instruments in cold water for 5 minutes. The busit the dipasembled instru-ments with a soft rylon busit under water for service coarse imputities. mpunites. Mechanical cleaning: e.g. using the Miele 6535 CD unit at 55° C for 5 minutes (programme Varia 10) with an enzymatic cleaner

Schematic diagram of the TW/TW2 forque wrench

Aller 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 latt bruth. Do not allow blood residue and other adhering deposits to dry on the components.

Schematic diagram of the RAT2 ratchet



Pre-clean the individual parts under running cold water using a soft bruth. Do not allow blood residue and other adheting depositive to dry on the components. The ratcher should be autoclaved in the disastembled state and reassembled index before use.

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Important points • All instruments must be sterilised after cleaning, • When steriling multi-part instruments in an autoclave without a diving programme, it is assertial that the instru-ments are advarys itselfield in a disasterioidal stelet • The instruments should always be checked for consolon after stellastion.

The Instrument's faculd always be checked for consion after strellation. The acaling of the instruments must all be vibble after ste-rification: otherwise the instruments should be replaced. New instruments must be cleaned and sterlited without packaging before using for the fast line. Preparation of all instruments with cavifies is particularly critical. This agains expectedly to instruming coales and water water and instruments with blind holes. At the water support of the particular with blind holes. At the water support of the particular water and with internally coaled affilia and bane chips and debis could be carried from patient to patient, we recommend using these hattru-ments as single-use products any priving them status-wily on one patient. With all other instruments it insulties indicated the coalish was completely clean. Multi-part placement oids should be disasenabled for cleaning. If possible.

Control Check all initiations offer cleaning and cleaning/distribu-fion. for controls, damaged surfaces, chipping, damage to the shape (e.g. bent and non-carcentric running instru-ments, damaged or blunt blacks) as well as conterinstibu-and discaid any damaged instruments, instruments that are still contaminated must be clearized and distincted again. Then check the function and integrity of the instruments. If is and necessary to gapby care products (e.g. oil) to instruments and abutments of screws.

and ballminets or sorver.
Special aspects to observe with drills and corters
be culling informents for a maximum of 10 lines.
It is culling informatis for a maximum of 10 lines.
It is culling and threads the information of the control of the control of the control of the control of the stores are solved in a control of the stores. The solved is the weat of barren doubt drills thread once, there is a control drills depends on the indirect. The weat of barren to find the control of the stores are the site of the control of the

Packaging Sort out he instruments in the iterilisation tray and then pack hom in ungle-use iterilisation packaging (single or double packaging) and/ar sterilisation condiner, which < complies with DIN EN 868-21/DIN EN ISO/ANSI AAMI ISO (1907)

- 11407 II suitable for Heam Herilitation (temperature (existant up to min, 127° C (277° H) adequate steem permeability) provides adequate protection of the instruments and ste-nitisation packaging against mechanical damage is regularity serviced according to the manufacturer's in-structions (sterrisation container)

Sterilisation Mellinal Flactional pre-vacuum procedure

	(according to ISO 17665 pr ISO 13050). I unit that complies with EN 285	nı
emperature;	Heat to 132" C max. 137" C	

Temperature: Heat to 132° C max, 132° C. Pressure: Jane vacuum stages with min, 60 millibar pressure: Minimum ann, at 132° C. Drying time: minimum ann, at 132° C. Drying time: minimum 10 min. Check the 144% elite instrument backsding for damage attest territiciton, check the sterikation indicatoh. To avad stationing and consolin the stear must had contain any ingreatents. The divident fluentane has to have been minimum and the statistication indicatoh. The ingradents for dimine provide and stem boards to the statistication of the statistication indicatoh and are specified in EN 835. Sterikistion using bal-of sterikins mad / and stem balan in at advised, as the high temperatures bluin the cuffing surfaces of the drills. Instruments should be sterilied in the tays recommended by the outcode manufacture int there is not a system pacific instrument tay available.

Storage After device in the sterilication packaging. The instruments should also be protected against unlight and heat. The machiner storage period (expert) daily dependent on strend factors and must be determined and validated by the user.

factors and multi be determined and validated by the user, **Informalian an handling woll-part instruments** Multi-part instruments multi be discussed before sterilita-tion. Presse note has schematic diagram below, the purived and ratchet hausing (inner and outer) multi-be-parts of the activity of the schematic diagram below. The purived and ratchet hausing (inner and outer) multi-be-brits of the activity of the schematic diagram below. This purived and ratchet hausing (inner and outer) multi-be-field by and the line of the schematic of the schematic fine bag and sterilised. Ensure that the appendix on exceeding and that the instant of its parts are not (ying in water. After schematic, the ratchet involuti be finity (ubricated using a licone bill and reassemble). The function of the ratchet (hould then be checked before beginning surgery).

Schematic diagram at the hundle REF 311430 (con be disassembled)

al parts - no tool is inquired for disas



Pre-clean the individual parts under running cold water using a sett bruth. Do not allow blood residue and other adhering deposits to dry on the components. The handle should be autoclayed in the dispsembled state and reasembled immedi-rately before use.

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



Fre-clean the instrument under running cold wate) 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 ultrasaric cleaner (see above) and mechanical cleaning (hould be performed to sequence).



onewaybiemed GmbH reserves the right to change the de-sign of the products and component or their packaging, adapt instructions for use a well as renegative prices and delivery conditions. Liability is invited to the use of defective products.Any further claims are excluded.

Further Information about the preparation of medical pro-ducts is available in the Internet at www.rki.de or www.o.k.

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Date of the latest revision 2021-08

Distributed by

CE1936

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

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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. GCS® 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



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Non-sterile





Rx ONLY

Intended for use

by dentists or

surgeons only









products.



(The products of this catalogue are CE marked

(class I) and CE 1936 marked (class IIa and IIb)

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

according to 93/42/EC Directive).

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Instruction

for use

REF

Expiry date

Store in a dry place

Store tightly keep closed

Do not use if packing is damaged

Do not resterilize

Manufacturer

Production date

Catalogue number

Single use product



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