

IMMEDIATE LOADING single part implants DENTAL IMPLANT SYSTEM



## SYMBOLS FOR IMPLANT PROPERTIES AND PROSTHETIC SOLUTIONS





## **APPLICATION AREAS**

## OF THE STRATEGIC IMPLANT® FOR ANCHORAGE IN THE UPPER AND LOWER JAW

**GBC**<sup>®</sup> implants can be used immediately in extraction sockets if the basal support is sufficient. The anti-rotation protection ensures immediate stability against unintentional unscrewing before prosthetic loading. The prosthesis should be inserted before the 3<sup>rd</sup> post-operative day. **GBC**<sup>®</sup> implants are made of strong, biocompatible titanium alloy Ti6Al4V. **GBC**<sup>®</sup> implants are used typically for segments and circular bridges in an immediate splinting protocol. Their use is permitted only for authorized users.

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

## www.implant.com/en/downloads



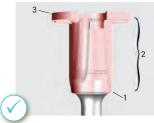
## FITTING AND CEMENTING OF PROSTHETICS

The lower border of the abutment head of the Strategic implant® is (only) used as a margin to hold the transfer during impression-taking. Because the implant and the abutment head are both polished, the lower margin of the implant does not typically serve as a crown margin as we know it from teeth or conventional 2-stage implants. There are no medical or technical reasons why the crown margin (or the margin of the technical abutment) should reach the lower border of the abutment head.

It is important however that enough distance between the lower margin of the prosthetic workpiece and the gums (or the bone respectively) is left after cementation. We recommend to use only strong permanent cements (e.g. Fuji Plus, GC Corp.) and to have a vertical cementing surface/zone of at least 4 mm on the abutments. The abutment head may be shortened/adjusted vertically and/or laterally in order to achieve a good aesthetic result and to allow good phonetics

Those surfaces on the abutment head which will provide retention for the cement must be roughened and cleaned before cementation. All other surfaces of the abutment head must remain fully polished.

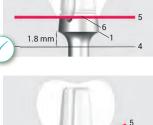
The main aim of this step of the treatment is the incorporation of a prosthetic workpiece which is easily cleanable or which allows self-cleaning (on the lingual or palatal side) in function.



6.1

Fig. 1 The transfer cap (3) is positioned on the abutment head until the lower border of the abutment head (1) is border of the abutment head (1) is reached. The transfer will sit firmly in this position. Then the impression is taken with silicone putty or heavy body silicone material. This allows the transfer of the implant position to the model.

Fig. 3 The crown margin (6) will be the same level as the lower border of the abutment head (1) if the abutment head sits on the mucosa line (5).



## Fig. 2 The implant head was placed approximately 1.8 mm above the bone level (4). The mucosa level (5) reaches higher than the lower border of the abutment head (1). The level of the crown margin (6) and the lower border of the abutment head (1) are in a distance to each other. This avoids retention of cements and debris in the submucosal area. This is a correct result. On the x-ray the crown will appear however as "too short", considering not applicable criteria from conventional dentistry.

Fig. 4 If the abutment head is positioned on a mucosal slope, the lower border of the abutment head is on one side (1a) deeper in the mucosa than on the other side (1b). In such a case the crown margin (6) will also run oblique, in order to avoid submucosal position of parts of the crown. See the clincial example in Fig. 9. Also in this case the crown may appear as "too short" on the x-ray, considering not applicable criteria from conventional dentistry.



Fia. 5 For aesthetic reasons it may be necessary to create vestibular overhangig portions of the prosthetic workpiece (7).

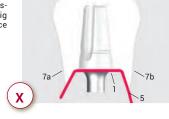


Fig. 6 It is not allowed to create such prosthetic overhangs (7a, 7b) on both sides of the prosthetic workpice, because this would lead to an non-hygienic situation without the possibility of self cleaning. Food and debris will get stuck in the area of the mu cosal penetration area of the implant and this will create an inflammation.

## Fig. 8

If abutment heads are used as technical abutments, they are shortened after the final cementation of the prosthetic wor piece (region 8 is removed) and after the cement has fully set. This adjustment may be done at the first control appointment. They remain "open". The height of the cementing surface (9) should be not less than 4 mm. The lower margin of the abutment does not necessarily concide with the lower border of the abutment head.



## Fig. 7

If vertical height is missing, the top part of the abutment head may be shortened (region 8 is removed). At the same time it might be necessary to keep a distance between the lower margin of the abutment head (1) and the lower crown margin (6). Neverthel-ess the vertical cementation area (9) should be not less than 4 mm heigh

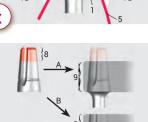
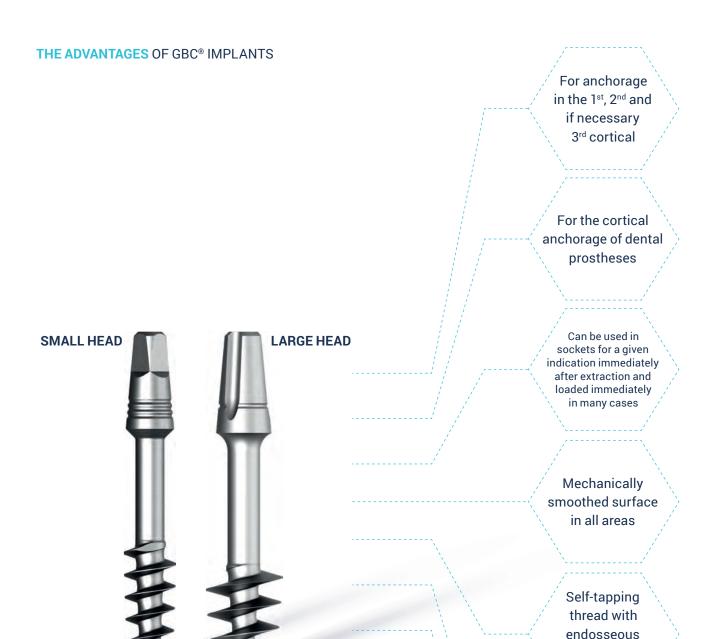


Fig. 9

The implant crowns 43 and 44 have been shortened more than 3 mm on the lingual side and on the vestibular side an overhang has been modelled. The necessary height for cementation is given both on the vestibular and the lingual side on the abutment head.

## CONCLUSION

The question if the prosthetic construction is propperly fitted to the abutment of the Strategic implant<sup>®</sup> depends on the spational relationship between the crown margin to the mucosa much more than on anything else. Relevant for any judgement about the length of the crown is the moment of the cementation. Only for selected bridge materials and bridge designs, subgingival connection between implant abutment and prosthetics is possible. In such cases the final connection between the two components requires an open surgical cementation.



For implant Ø from 3.5 to 4.6 mm, not less than **ten** implants should be used for the complete **upper jaw**.

For implant  $\emptyset$  from 3.5 to 4.6 mm, not less than **eight** implants should be used for the complete **mandible**.

The phase of adaptation and consolidation of the cortical bone in which these implants are anchored (2<sup>nd</sup> or 3<sup>rd</sup> cortical) must be considered to be 24 months after the insertion of the implants. So there is a significant difference to the healing times for implants that are used according to the method of "osseointegration", for which the healing times are assumed to be 3-6 months.

Nevertheless GBC<sup>®</sup> implants are designed to be used (solely by specially trained and authorized users) in immediate functional loading protocols.

Conditionally suitable for individual tooth prostheses

anti-rotation protection

Made of highly resistant titanium alloy

## GBC® IMPLANTS 2.7 MMD WITH SMALL ABUTMENT HEAD

These implants are used for the following indications

• Supporting (additional) implants for cortical anchorages of bridges and crowns

Creation of a three-point support for the cortical anchorage of dental prostheses



a) Max. abutment Ø	3.35
b) Abutment height	6.8 n
c) Nominal length	10 - 3
d) Length of apical thread	4.5/
e) Enossal Ø	max
f) Neck Ø in bending zone	1.9 m
g) Length of bending zone	2.55
h) Square AF (across flats)	1.9 n
Tool	IT K,

Description	с	d	е	g	Drill	REF	Price cat.
GBC 2.7 10	10	4.5	2.7	2.55	Twist Drill 1.8	BM2250	G
GBC 2.7 12	12	4.5	2.7	2.95	Twist Drill 1.8	BM2251	G
GBC 2.7 14	14	5.5	2.7	2.95	Twist Drill 1.8	BM2252	G
GBC 2.7 17	17	5.5	2.7	2.95	Twist Drill 1.8	BM2253	G
GBC 2.7 20	20	5.5	2.7	2.95	Twist Drill 1.8	BM2254	G
GBC 2.7 23	23	5.5	2.7	2.95	Twist Drill 1.8	BM2255	G
GBC 2.7 26	26	5.5	2.7	2.95	Twist Drill 1.8	BM2256	G
GBC 2.7 29	29	5.5	2.7	2.95	Twist Drill 1.8	BM2257	G
GBC 2.7 32	32	5.5	2.7	2.95	Twist Drill 1.8	BM2258	G

USELIMITATIONS GBC 2.7 must not be used as an implant for single tooth replacement, however two or more GBC 2.7 may serve as such. If **only** GBC 2.7 is used in very thin jaws, the surgeon should try to insert at least eight, but better more (up to 12 implants) for this jaw. GBC 2.7 are considered additional dental implants and they are used with other GBC implants 3.5 mm - 12 mm in order to increase the stability of the implant-prosthetic system.

3.35 mm
6.8 mmh
10 - 32 mm
4.5 / 5.5 mm
max. 2.7 mm
1.9 mm
2.55 - 2.95 mm
1.9 mm
ІТ К, АНК

all all all

## **TWIST DRILL**

Description	Ø	Max. working length	REF	Price cat.
Twist Drill 1.8/23	1.8 mm	23 mm	BM1370	D

## **GBC®** IMPLANTS 3.0 MMD WITH SMALL ABUTMENT HEAD

These implants are used for the following indications

• Supporting (additional) implants for cortical anchorages of bridges and crowns

Creation of a three-point support for the cortical anchorage of dental prostheses



Description	с	d	е	g	Drill	REF	Price cat.
GBC 3.0 10	10	4.5	3.0	2.55	Twist Drill 1.8	BM2210	G
GBC 3.0 12	12	4.5	3.0	2.95	Twist Drill 1.8	BM2211	G
GBC 3.0 14	14	5.5	3.0	2.95	Twist Drill 1.8	BM2212	G
GBC 3.0 17	17	5.5	3.0	2.95	Twist Drill 1.8	BM2213	G
GBC 3.0 20	20	5.5	3.0	2.95	Twist Drill 1.8	BM2214	G
GBC 3.0 23	23	5.5	3.0	2.95	Twist Drill 1.8	BM2215	G
GBC 3.0 26	26	5.5	3.0	2.95	Twist Drill 1.8	BM2216	G
GBC 3.0 29	29	5.5	3.0	2.95	Twist Drill 1.8	BM2217	G
GBC 3.0 32	32	5.5	3.0	2.95	Twist Drill 1.8	BM2218	G

USELIMITATIONS GBC 3.0 must not be used as an implant for single tooth replacement, however two or more GBC 3.0 may serve as such. If only GBC 3.0 is used in very thin jaws, the surgeon should try to insert at least eight, but better more (up to 12 implants) for this jaw. GBC 3.0 are considered additional dental implants and they are used with other GBC implants 3.5 mm - 12 mm in order to increase the stability of the implant-prosthetic system.

a) Max. abutment Ø	3.35 mm
b) Abutment height	6.8 mm
c) Nominal length	10 - 32 mm
d) Length of apical thread	4.5 / 5.5 mm (depending on the endosseous implant length)
e) Enossal Ø	max. 3.0 mm
f) Neck Ø in bending zone	1.9 mm
g) Length of bending zone	2.55 - 2.95 mm
h) Square AF (across flats)	1.9 mm
Tool	ІТ К, АНК

## **TWIST DRILL**

Description	Ø	Max. working length	REF	Price cat.
Twist Drill 1.8/23	1.8 mm	23 mm	BM1370	D

## **PATHFINDER** DRILLS

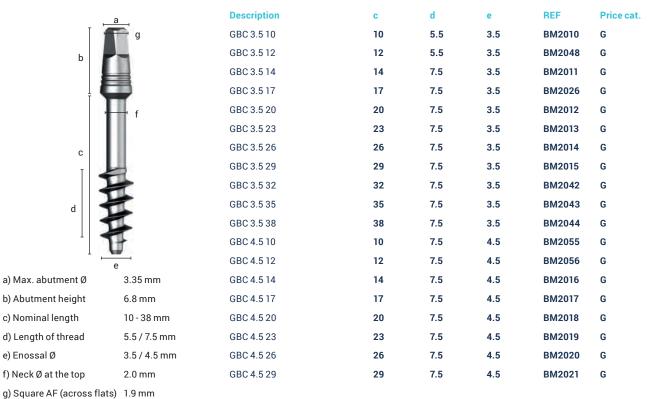
Conical 3-edge drill as initial drill, ideally suited for all crestal implant systems. The drill also passes between narrow cortical areas without pressure.

SCOX I	Description	Colour	Max. working length	REF	Price cat.
	BCDX 1	yellow	15 mm	BM2103	С

## **GBC®** IMPLANTS WITH **SMALL ABUTMENT HEAD**

## GBC<sup>®</sup> implants 3.5 mmd - 4.5 mmd

For anchorage in the 1<sup>st</sup>, 2<sup>nd</sup> and if necessary 3<sup>rd</sup> cortical, for the cortical anchorage of dental prostheses. GBC<sup>®</sup> implants can be used in sockets for a given indication immediately after extraction and loaded immediately in many cases. Mechanically smoothed surface in all areas. The abutment head is identical to the head of GCS<sup>®</sup> implants. Self-tapping thread with endosseous anti-rotation protection. Conditionally suitable for individual tooth prostheses. **Insertion tools**: IT GCS, ITX GCS, ITS GCS, Adapter AHK.



Max. insertion torque 80 Ncm

FIELD OF APPLICATION Enossal dental implant for cortical anchorage.

**INCLUSIVE** 



IA4/IAU BM5118

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

Double analogue, plastic

**GBC**<sup>®</sup> implants are delivered incl. lab-set REF 462353, consisting of

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).



## **GBC®** IMPLANTS WITH LARGE ABUTMENT HEAD

a	Description	С	d	е	REF	Price cat.
	GBC 3.6 10	10	5.5	3.6	BM2070	н
b	GBC 3.6 12	12	5.5	3.6	BM2107	н
	GBC 3.6 14	14	7.5	3.6	BM2071	н
	GBC 3.6 17	17	7.5	3.6	BM2072	н
•• f	GBC 3.6 20	20	7.5	3.6	BM2073	н
	GBC 3.6 23	23	7.5	3.6	BM2074	н
c	GBC 3.6 26	26	7.5	3.6	BM2075	н
	GBC 3.6 29	29	7.5	3.6	BM2076	н
I	GBC 4.6 8	8	3.5	4.6	BM2108	н
d H	GBC 4.6 10	10	5.5	4.6	BM2077	н
T	GBC 4.6 12	12	4.5	4.6	BM2109	н
T	GBC 4.6 14	14	7.5	4.6	BM2078	н
e e	GBC 4.6 17	17	7.5	4.6	BM2079	н
	GBC 4.6 20	20	7.5	4.6	BM2080	н
a) Abutment Ø 3.9 mm	GBC 4.6 23	23	7.5	4.6	BM2081	н
b) Abutment height 7.2 mm	GBC 4.6 26	26	7.5	4.6	BM2082	н
c) Nominal length 8 - 29 mm	GBC 4.6 29	29	7.5	4.6	BM2083	н
d) Length of thread 3.5 - 7.5 mm	GBC 5.5 8	8	3.5	5.5	BM2111	к
e) Enossal Ø 3.6 - 5.5 mm	GBC 5.5 10	10	5.5	5.5	BM2051	к
f) Neck Ø at the top 2.0 mm	GBC 5.5 12	12	6.0	5.5	BM2022	к
Max. insertion torque 80 Ncm	GBC 5.5 14	14	6.0	5.5	BM2023	к
	GBC 5.5 17	17	6.0	5.5	BM2024	к
	GBC 5.5 20	20	6.0	5.5	BM2047	к
	GBC 5.5 23	23	7.5	5.5	BM2116	к
	GBC 5.5 26	26	7.5	5.5	BM2117	к
	GBC 5.5 29	29	7.5	5.5	BM2118	к

INCLUSIVE

**GBC**<sup>®</sup> 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).



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

	a	Description	с	d	е	f	REF	Price cat.
Ī		GBC 7.0 8	8	5.5	7	2.0	BM2112	к
b		GBC 7.0 10	10	5.5	7	2.0	BM2106	к
		GBC 7.0 12	12	5.5	7	2.0	BM2030	к
		GBC 7.0 14	14	5.5	7	2.0	BM2031	к
с	f f	GBC 7.0 17	17	5.5	7	2.0	BM2032	К
Ī		GBC 7.0 20	20	5.5	7	2.0	BM2046	к
d		GBC 9.0 8	8	5.5	9	2.1	BM2113	Μ
		GBC 9.0 10	10	5.5	9	2.1	BM2033	Μ
1		GBC 9.0 12	12	5.5	9	2.1	BM2034	М
<u> </u>	e	GBC 9.0 14	14	5.5	9	2.1	BM2035	М
		GBC 10.5 10	10	6.5	10.5	2.1	BM2039	М
a) Abutment Ø	3.9 mm	GBC 10.5 12	12	6.5	10.5	2.1	BM2040	М
b) Abutment height	7.2 mm	GBC 10.5 14	14	6.5	10.5	2.1	BM2041	М
c) Enossal length	8 - 20 mm	GBC 10.5 17	17	6.5	10.5	2.1	BM2050	М
d) Length of thread	5.5 - 6.5 mm	GBC 12.0 8	8	5.5	12	2.1	BM2114	0
e) Enossal Ø	7 - 12 mm	GBC 12.0 10	10	5.5	12	2.1	BM2036	0
f) Neck Ø at the top	2.0, 2.1 mm	GBC 12.0 12	12	6.5	12	2.1	BM2037	0
Max. insertion torque 8	0 Ncm	GBC 12.0 14	14	6.5	12	2.1	BM2038	0

## GBC® IMPLANTS WITH LARGE ABUTMENT HEAD

Insertion tools: UST 1 M, UST 2 M, Adapter UST 1



**GBC**<sup>®</sup> implants are delivered incl. lab-set REF 462353, consisting of

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

Double analogue, plastic

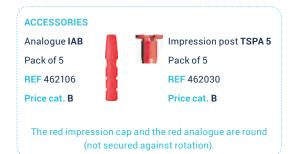
## BM1429

IA4/IAU BM5118

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

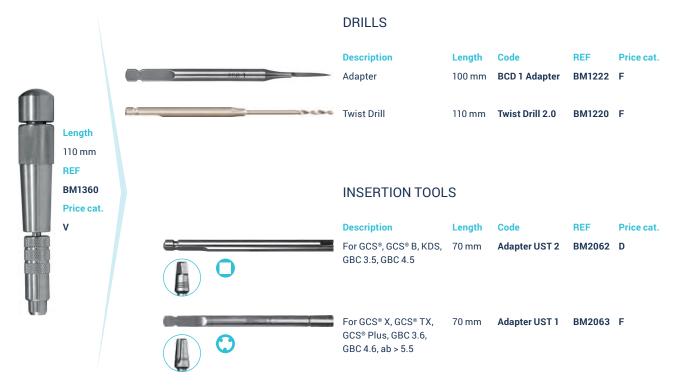
NOTE This is a standard lab-set and therefore contains parts for both LARGE abutment heads (PA X) and SMALL abutment heads (TSPA 4).





## HANDGRIP SELF LOCKING

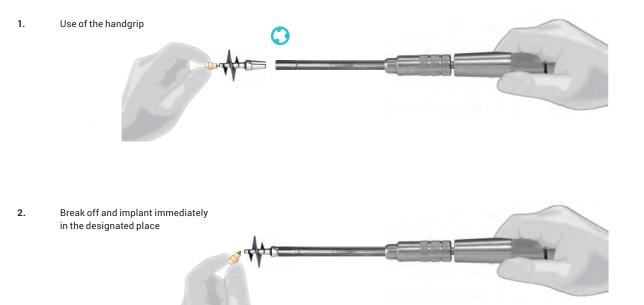
For machine reprocessing, cannot be dismantled. Clean in an ultrasonic bath at 45° with an alkaline cleaning agent. For adapter, self-locking. Please note the cleaning instructions on www.implant.com/en/downloads



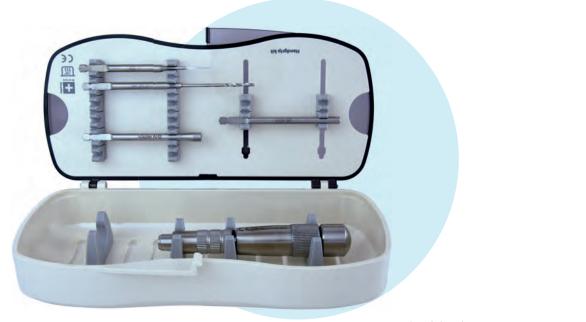
## USE OF THE HANDGRIP

## ON THE EXAMPLE OF A LARGE ABUTMENT HEAD GBC® IMPLANT





## HANDGRIP TRAY



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

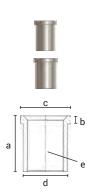
Description	Length	REF	Price €
BCD 1 Adapter	100 mm	BM1222	
Twist Drill 2.0	110 mm	BM1220	
Adapter UST 2	70 mm	BM2062	
Adapter UST 1	70 mm	BM2063	
Handgrip	110 mm	BM1360	
Handgrip tray w/o content		BM2061	upon request
Handgrip tray with content		SBM2061	upon request

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

## IMPRESSION TAKING AND LABORATORY ACCESSORIES FOR GBC® AND GCS® IMPLANTS

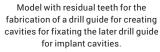
	Description	Unit	Code	REF	Price cat.
	Impression post castable, POM For small head Internally round	Pack of 5	TSPA 4	BM1394	В
ALTERNATIVE	Impression post castable, POM For small head Internally round	Pack of 5	TSPA 4	BM1372	В
Ĩ	Impression post castable, POM For large head Internally round	Pack of 5	TSPA 5	BM1393	В
U	Impression post castable Internally edged	Pack of 5	ΡΑΧ	462136	В
	Double analogue, metal	1 piece	IA4/IAU	BM5119	Α
	Double analogue, plastic	Pack of 5	IA4/IAU	BM5118	В
	Castable abutment and base for provisionals For small head 7 mm high, white, internally round	Pack of 5	P04	BM1317	В
	Castable abutment For large head Internally round	Pack of 5	РОВ	BM5121	В

## **GUIDE JACKET**



Description	Unit	Material	REF	Price cat.
BFH 2.0 guide jacket 2.0mmd	Pack of 5	Ti6Al4V	BM7100	В
BFH 2.5 guide jacket 2.5mmd	Pack of 5	Ti6Al4V	BM7101	В
	<b>F</b>			
a) Length	5 mm			
b) Height of step	0.7 mm			
c) Max. Ø top	3.7 / 4 mm			
d) Nominal Ø	3 / 3.35 mm			
e) Ø of drilling in the drill template	2.05 / 2.55 mm			







Drill guide for creating cavities for later fixation of the surgical drill guide.



Surgical drill guide for safe GBC<sup>®</sup> placement. The drill sleeves are designed for 2.0 mm Twist drills.

## PATHFINDER DRILLS

Conical 3-edge drill as initial drill, ideally suited for all crestal implant systems. The drill also passes between narrow cortical areas without pressure.

I 15 mm I I 39 mm I	Description BCD 1	Colour yellow	Max. working length 15 mm	REF BM2100	Price cat. C
	BCD 2	black	15 mm	BM2101	С
	BCD 3	red	13 mm	BM2102	С
eubri	BCDX 1	yellow	15 mm	BM2103	С
	BCDX 2	black	15 mm	BM2104	С
l 47 mm l	BCDX 3	red	15 mm	BM2105	С
100 H	BCD 1 Adapter Pathfinder for handgrip Length 100 mm			BM1222	F

**TWIST DRILLS** 

Description Twist Drill 1.8/23	Ø 1.8 mm	Max. working length 23 mm	REF BM1370	Price cat. D
Twist Drill 2.0/21	2.0 mm	21 mm	BM1361	D
Twist Drill 2.0/30	2.0 mm	30 mm	BM1362	D
Twist Drill 2.0/40	2.0 mm	40 mm	BM1223	D
Twist Drill 2.5/21	2.5 mm	21 mm	BM1363	D

Description	Max. working length	REF	Price cat.
Twist Drill 2.0 Cylindrical drill 2.0 mm For handgrip, length 110 mm	35 mm	BM1220	F
Pilot drill For surgical handgrip For chuck 2.35 mmd		BM1226	F
 Twist Drill 2.0/30 For surgical handgrip For chuck 2.35 mmd	30 mm	BM1227	F

## HARD METAL 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
	Hard metal bone cutter short, for FG	Hard metal bone cutter short, for FG 30 mm	Hard metal bone cutter short, for FG 30 mm SHMC S	Hard metal bone cutter short, for FG 30 mm SHMC S BM6026

## **INSERTION TOOLS** AND **ADAPTER**

<b>Description</b> For GBC <sup>®</sup> implants with Ø 3.5 mm + 4.5 mm	Code IT K	REF BM1336	Price cat. D
Insertion tool short, for small head Use with RAT 2 and TW2	ITSK	BM1338	D
Adapter for GBC 3.5 / 4.5 Use with handgrip REF 311431	АНК	BM2062	D
Insertion tool long, for large head Use with RAT 2 and TW2	UST 2 M	BM2064	E
For GBC <sup>®</sup> implants with Ø 3.6, 4.6, 5.5, 7, 9, 10.5, 12 mm	Adapter UST 1	BM2110	E
For GBC® implants with Ø 3.6, 4.6, 5.5, 7, 9, 10.5, 12 mm Use with handgrip REF 311431	Adapter UST 2	BM2063	F

## WIRES FOR INTRA-ORAL WELDING

Description	Material	Ø	REF	Price cat.
Titanium wire (5 piece á 15cm/pack)	TiGr.2	1.5 mm	BM2001	В
Titanium wire (5 piece á 15cm/pack)	TiGr.2	2.0 mm	BM2002	В
Titanium wire (5 piece á 15cm/pack)	Ti6Al4V	2.0 mm	BM2003	В

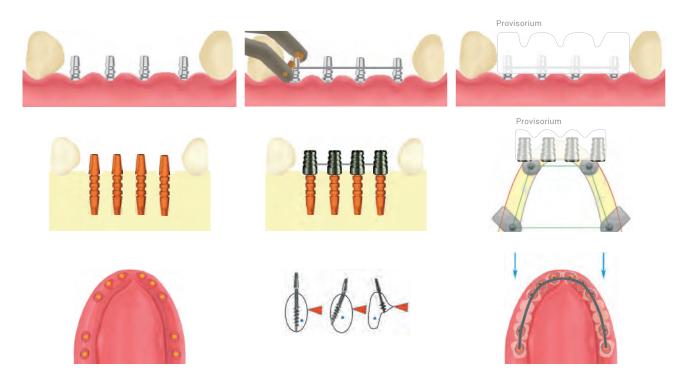
## TITANIUM CAPS FOR LASER CONNECTION

Multi-use titanium caps for:

- use in immediately lasered bridge frames, together with the bar profiles (without bar matrices)
- the radiological control of plastic modeling
- ${\boldsymbol{\cdot}}\,$  for direct Polymerization into the bridge prosthesis
- direct veneering with titanium ceramics
- material: Ti Grade 4

Description	Code	REF	Price cat.
Titanium cap, radio opaque For small head For GCS, GCS B, GBC 3.5, GBC 4.5	MA4	BM6024	В
Titanium cap, radio opaque For large head For GCS X, GCS Plus, GBC 3.6, GBC 4.6-GBC 12	MA5	BM6025	В

## **INTRA-ORAL WELDING**



Nanda S., Ihde S., Nanda P. Intra-oral welding-A usefull adjunct in immediate loading implantology using GBC implants. CMF Impl. Dir. Vol 9, No.2, 13-24, 2014

## **SCANBODIES**



Scanbody-4 For small head

Description

Material	Systen
Peek	GCS, G

me	REF
BBC	BM15

REF	
BM1561	

Price cat.

В

В



Scanbody-5 For large head

Peek	GCS, GBC

BM1562

## **CEMENTABLE ANGULATION ADAPTER (TI6AL4V)**

These adapters are mounted on GBC® 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.



## **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	REF	Price cat.
Adapter 15°	7.5 mm	AAL 15 KK	BM1308	С
For small head				
Reducible and castable				
Pack of 5				

## LAB ANALOGUE



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

## CASTABLE ABUTMENT AND IMPRESSION TRANSFER

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

## **CEMENTING ABUTMENT**

Replacement abutment for cementing. For GBC implants up to a shaft diameter of 2.1 mm. Larger shafts must be ground down. Allows the vertical correction of the abutment position. Mounting e.g. with Fuji Plus. With drain hole, machined surface. Material Ti6Al4V.

Description	Code	REF	Price cat.
Replacement abutment for GBC internal diameter 2.15 mm	B21	BM1209	Α

## **INSTRUMENT** TRAY FOR GCS® AND GBC®



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

Description	System	Head	REF	Description	System	REF	Price €
UST 1 M	GCS/GBC	large	BM2064	Twist Drill 2.0 30	GBC	BM1362	
UST 2 M	GCS/GBC	large	BM2110	Twist Drill 2.0 21	GBC	BM1361	
IT2 W	GCS/GBC	large	BM3339	Twist Drill 2.5 21	GBC	BM1363	
ІТ К	GCS/GBC	small	BM1336	Twist Drill 1.8/23	GBC	BM1370	
UST 1 S	GCS/GBC	small	BM1338	BCD 1	GCS/GBC	BM2100	
ІТ  К	GCS/GBC	small	BM1340	BCD 2	GCS/GBC	BM2101	
ІТ Ш К	GCS/GBC	small	BM1339	BCD 3	GCS/GBC	BM2102	
DOS 1	GCS *		BM1330	BCDX 1	GCS/GBC	BM2103	
DOS 2	GCS *		BM1331	BCDX 2	GCS/GBC	BM2104	
DOS 3	GCS *		BM1332	BCDX 3	GCS/GBC	BM2105	
DOS 4	GCS *		BM1333	RMS	GCS/GBC	BM1364	
DOS 5	GCS *		BM1334	RMS	GCS/GBC	BM1364	
C-Drill KM 1	GCS *		BM1071	DX 2	GCS/GBC	BM1349	
C-Drill KM 2	GCS *		BM1072	TW2	GCS/GBC	BM1356	
C-Drill KM 3	GCS *		BM1073	Instrument tray w/o	content	BM4264	upon request
DS 2	GCS *		BM1359	Instrument tray with	n content	SBM4264	upon request
ІТ ТВ К	GCS *		BM1345				

\* The content for the system GCS® is optional

	Description	Туре	Length	For implant	REF	Price cat.
	ІТ К	long	20 mm	GBC, GCS, GCS B, KDS	BM1336	D
	UST 1 L	extralong	45 mm	GBC, GCS, GCS B, KDS	BM1337	D
	UST 1 S	short	7 mm	GBC, GCS, GCS B, KDS	BM1338	D
	UST 1 M	long	19 mm	GBC, GCS, GCS B, KDS	BM2064	E
	UST 2 M	short	7 mm	GBC, GCS X, GCS Plus	BM2110	E
Hanna	IT2W		23 mm	GCS, GBC	BM3339	E

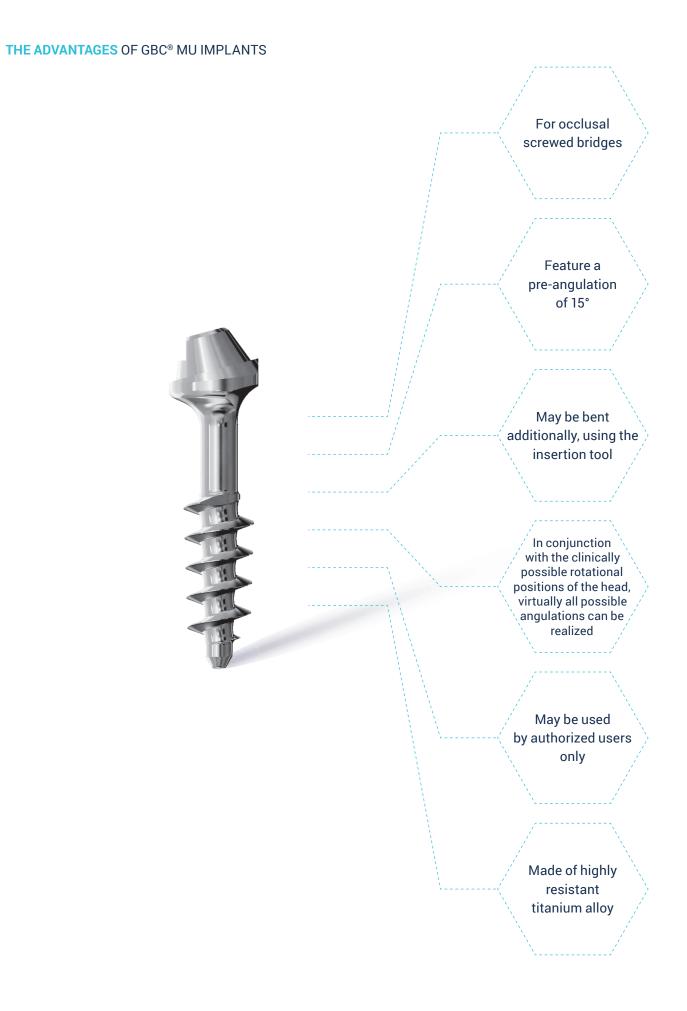
## **INSERTION TOOLS**

## **STARTER** TRAY

Autoclavable up to 134° C, not suitable for dry heat sterilizers. This surgical kit contains all drills and tools for first works withthe system GBC® and GBC® MU. Material: autoclavable plastic.



Description	REF	Price €
ІТ К	BM1336	
UST 1 S	BM1338	
UST 1 M	BM2064	
UST 2 M	BM2110	
BCD 1	BM2100	
Twist Drill 2.0 21	BM1361	
Twist Drill 2.0 30	BM1362	
Twist Drill 2.5 21	BM1363	
Twist Drill 1.8/23	BM1370	
BCDX 1	BM2103	
HT 1.25	BM3022	optional content
ITX MU 15	BM3222	opt cor
Torque wrench TW2	BM1356	
Starter tray w/o content	BM6505	upon request
Starter tray with content	SBM6505	upon request



## **GBC® MU** IMPLANTS

GBC<sup>®</sup> MU implants feature a pre-angulation of 15 degrees. GBC<sup>®</sup> 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. GBC<sup>®</sup> MU implants may be used by authorized users only. Material Ti6Al4V.



<u> </u>		Description	REF	Price cat.	Description	REF	Price cat.
b	a	GBC MU 3.6 8	BM1298	Ν	GBC MU 4.6 23	BM1286	Ν
U I		GBC MU 3.6 10	BM1299	Ν	GBC MU 4.6 26	BM1287	Ν
c 🛔		GBC MU 3.6 12	BM1277	Ν	GBC MU 4.6 29	BM1288	Ν
	'f	GBC MU 3.6 14	BM1200	Ν	GBC MU 4.6 32	BM1289	Ν
		GBC MU 3.6 17	BM1201	Ν	GBC MU 4.6 35	BM1290	Ν
		GBC MU 3.6 20	BM1202	Ν			
d T		GBC MU 3.6 23	BM1203	N	GBC MU 5.5 10	BM1204	Ν
		GBC MU 3.6 26	BM1278	Ν	GBC MU 5.5 12	BM1205	Ν
I.		GBC MU 3.6 29	BM1279	N	GBC MU 5.5 14	BM1206	Ν
		GBC MU 3.6 32	BM1215	Ν	GBC MU 5.5 17	BM1259	Ν
e La construction de la construc		GBC MU 3.6 35	BM1216	Ν	GBC MU 5.5 20	BM1260	Ν
		GBC MU 3.6 38	BM1217	Ν	GBC MU 5.5 23	BM1241	Ν
a) Abutment Ø	4.8 mm				GBC MU 5.5 26	BM1242	Ν
b) Abutment height	3.7 mm	GBC MU 4.6 8	BM1280	Ν			
c) Trans-mucosal height	0.8 mm	GBC MU 4.6 10	BM1281	N	GBC MU 7.0 10	BM1207	Ν
d) Enossal length	8 - 38 mm	GBC MU 4.6 12	BM1282	Ν	GBC MU 7.0 12	BM1208	Ν
e) Enossal Ø	3.6 - 7.0 mm	GBC MU 4.6 14	BM1283	N	GBC MU 7.0 14	BM1262	Ν
f) Neck Ø	2 mm	GBC MU 4.6 17	BM1284	Ν	GBC MU 7.0 17	BM1263	Ν
g) Height of connecting part	2 mm	GBC MU 4.6 20	BM1285	Ν	GBC MU 7.0 20	BM1264	Ν

## MULTI-UNIT LAB SET

Prosthetic screw

SFK MU



Description	Code	REF	Price cat.
<b>Titanium base</b> Use with SF K MU	T-Base MU	BM3169	
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	Е

## ACCESSORIES SINGLE-PIECE MULTI-UNIT IMPLANTS

		Description		Code	REF	Price cat.
	Į,	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
	0	Insertion tool long For large head Use with RAT2 and TW2, length 19 mm		UST 1 M	BM2064	E
	0	Insertion tool short For large head Use with RAT2 and TW2, length 7 mm		UST 2 M	BM2110	Е
	0	Adapter for handgrip Fits ITX MU15 (REF BM3222)		Adapter UST 1	BM2063	F
		Description		Code	REF	
8		Hex Instrument 1.25, length 14 mm	short	HTS 1.25	BM3023	с
- E		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
		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
	H	Titanium base * Use with SF K MU (REF 418164) For GCS <sup>®</sup> MU, GBC <sup>®</sup> MU and Hexacone Plus MU		T-Base MU	BM3169	В
		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	2	Digital lab analogue for MU implants* For GCS® MU, GBC® MU and Hexacone MU		IA K MU	BM3178	В
H		Long screw for prosthetic use or as pick-up screw for use with HLT MU Tool: HT 1.25, material Ti6Al4V		SFL MU	BM3218	В
	i L	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

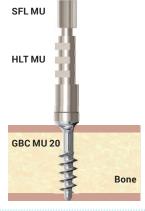
\* PLEASE GO TO HTTPS://IMPLANT.COM/EN/DOWNLOADS TO DOWNLOAD THE CORRESPONDING STL FILES SEE PAGE 16 FOR SCANBODIES FOR DIGITAL IMPRESSIONS ON MU IMPLANTS

## **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.

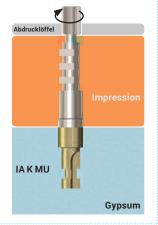
Screw canals are closed with temporary filling material or composite, taking into consideration that later access must be possible.



## Application of insertion tool MU Example for insertion tool ITX MU15 on the implant GBC® MU/ GCS® MU.

## 2.

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



## 3. a

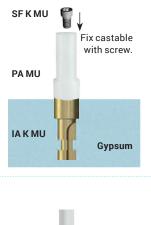
Connect PA MU with SF K MU on the analogue IA K MU. Tighten screw SFL MU with the tool HT 1.25.

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

## **GZI** ZYGOMA SCREW IMPLANTS

GZI implants are inserted either trans-sinusally (between the membrane and outer bones) or submucosal in the lateral upper jaw and anchored in the area of the Os Zygomaticum. In this case, the smooth parts of the implant are submucosal.

These implants are only used by experienced practitioners with a good knowledge of anatomy. GZI implants have a bending area below the cementing abutment and can therefore be inserted into the dental arch according to the axis even after palatal insertion into the upper jaw. A separate vertical osteotomy may be necessary for this. See scheme. In one-sided free-end situations, it can be combined with one or more GBC implants in the area of the tubero-pterygoid region.

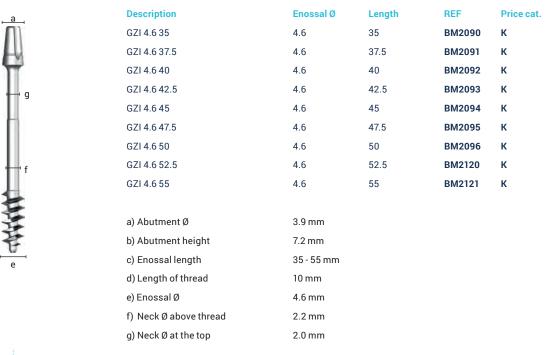
The treatment should be carried out in immediate loading protocol. Immediate splinting of the implants is necessary.

Material Highly resistant titanium alloy Ti6AI4V.

b

С

d



NCLUSIVE

GZI 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,



**Żygomatic** bone Zygomatic bone Żygomatic bone ATTEN S Maxillary sinus Maxillary sinus Maxillary sinus internally round, for small head

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

TSPA 4 BM1394

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

## TWIST DRILLS

<b>Description</b> Twist Drill 2.2 / 50 for Zygoma implants, SS	REF BM1428	Price cat. F
Twist Drill 2.2 / 55 for Zygoma implants, SS	BM1369	F
Twist Drill 2.2 for handgrip for Zygoma implants Length 100 mm	BM1224	F

## IMPRESSION TAKING AND LABORATORY ACCESSORIES FOR ZSI

Description	Unit	Code	REF	Price cat.
Impression post castable, POM Internally round	Pack of 5	TSPA 5	BM1393	В
Double analogue, metal For large and small head	1 piece	IA4/IAU	BM5119	Α
Double analogue, plastic For large and small head	Pack of 5	IA4/IAU	BM5118	В
Castable abutment For large head Internally round	Pack of 5	РОВ	BM5121	В

## SINGLE PIECE IMPLANT PRO KIT

All trays are delivered WITHOUT CONTENT. The tray offers a quick overview of the different lengths and diameters at hand, as well as the available amount of the corresponding implants.

	Description	Suitable for implant size	REF	Price cat.
	Single Piece Implant Pro Kit GBC® 2.7 - 3.0	GBC <sup>®</sup> 2.7 - 3.0	BM2501	R
	Single Piece Implant Pro Kit GBC® 3.5 - 4.5	GBC <sup>®</sup> 3.5 - 4.5	BM2505	R
	Single Piece Implant Pro Kit GBC® 3.6 - 4.6	GBC <sup>®</sup> 3.6 - 4.6	BM2506	R
	Single Piece Implant Pro Kit GBC <sup>®</sup> 4.5 - 4.6	GBC <sup>®</sup> 4.5 - 4.6	BM2503	R
VTALT	Single Piece Implant Pro Kit ${\rm GBC}^{\otimes}$ 5.5 / 7 / 9 / 10.5 / 12	GBC <sup>®</sup> 5.5 / 7 / 9 / 10.5 / 12	BM2504	R



## **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.



## EN

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

## Please read carefullyi

## Medical devices which may be re-processed are

- radis for abulments and sarews
  torques control Instruments and rabitiets
  Instruments for preparing endosteovs bone cavilies (drills,
  cutters)

- cutter)
  Bone expansion screws and distractors:
  Dire expansion screws and distractors:
  Direl guide stews:
  Abutments and screws, provided they do nat remain in/ with the patient between individual reactment appoint-ments and are not used on other patients. They thould be tated by the operator batween the tractment appoint-ments. e.g. together with the patient's file;
  Kanval inituments, for the placement of implant's and, bone preparation.

Re-usability Frequent re-processing has influence on the product espe-cially if high temporariums are applied for sterilisation. Dilits for barne cavities should be used anly. 10 times, feats and ratchest may be used adong at they this the after "and in ag-neral the operator is responsible for the decision of ke-wing and re-processing of instrument. Damagad instruments and responsibility of the manufactiver is valid. If these restictions are individed.

tegal bases The following legal bases, regulations and recommenda-tions are applied with regard to the products mentioned.

- The following legal base, regulations and recommendia-tions are applied with regard to the products mentioned above. (Cermany) Diractive \$2942 EEC Medical device regulations (which is walk in the country where the medical device) taxet for thrament of where the functionality of the medical device is being evolu-red.
- red) Bundesgesundheitsblaft (Federal Health Gazette) 2001 -44: 1115-1126

44:1115-1126 Hygiene requirements for the processing of medical devices. (Recommendation the Commission for Hospital Hygiens (Recommission for Konsterhoutsyglend) at the Robert-Acot-Institute and the Federal Ministry for Drugs and Medical Devices (Rondesministeriums for Arzaelmittel und Medizin-produkte)).

LeadLinformation: Implants and ahree components of the implant system Distans, 80, 485, 85C55, GBC as well as KGS PUUS (base) implants according to the Contential on Dana/Intergic implants according to the Contential on Touridation. Munich, see www.implantloundation.org/an/contensus. Autority of the system. This demond for further and continu-our advactions alto wind interface advantage to the the top of antibiotic advantage of advantage of the system. This demond for further and continu-our advactions alto wind for advantage batteries before and after the placement of the Implants.

aur aduction II alla valid for advimig patients before and after the backgreement of the implants. **Barner Barner Barne** 

## Care instructions of surgical steel instruments Surgical iffeel instruments can quickly became damaged with inadequate or incorrect care. Only commercially available solvents should be used for surgical steet. If in dou-ble actions is exemptioner of CarbII.

availabile solvents should be used for surgical steel: if in dou-bic andract newsylaland GMDH. The following are not recommended: • Dilunfection/cleaning agent with a nigh aniprime content • Dilunfection/cleaning agent with a nigh analic acta content file following are not recommended for instruments with

- content The following are not recommended for instrument's with orbor coding 1 500 high tolvent concentrations, asir(feation/cleaning agent with the inpredient mentioned acove 1 Too high temperatures with machanical cleaning and sta-miscilicar never higher than 135° C

Conditioning Coatrix insulfiles mult be removed from the products immediately offer use (within 1-2 nrs maximum). Singleat residue (Boats avergillows hume residue) should not be in a disinfectual avergillows hume residue) should not be in a disinfectual abultan immediately offer sought, for tem-poristy (Nonge and pre-disinfection) disarching immediately into a disinfectual abultan immediately offer sought, for tem-poristy (Nonge and pre-disinfection) disarching immediately pre-disinfectual abultan immediately offer sought, for tem-poristy (Nonge and pre-disinfection) disarching immediately pre-disinfectual abultan immediately offer sought, for tem-poristy (Nonge and the disarching immediately open). Contamination should them be eleaned from the in-ternation of the open and the sought of the source of the distribution of the source in a distribution official with a local contamination. New groups endface (Nonge GMMA) (German Society for Hygiene and Microbiology)/ FDA approved and CE Ana), besuitable for instrument di-infection and compatibility. There is the site specifi-cally for this propose. News use method brutes ar kiell woot. - Phase method is too to be performed atter conditioning period at lime. - Consided to rule internation was to be performed atter condition and - Consided to rule internation and the condition and - Consided to rule internation and the condition and - Consided to rule internation and the consider and man influmments into and the discusted and may no longer bea-used.

- Used.
  Encrustations must be thoroughly removed using nylon
- builtes. Enculted blood can alta be disolved using hydrogen peroxide 3% Instrument disintectant (esideus can be removed by rin-ung teveral times with varies.

Cleaning/disintection Fan cleaning and disintection onewsyblarmed GmbH re-commends the use of: Instrument disintectory (reaction) and the district loading. IS minutes in a 0% consentration or disil disinte-tection, when using other products fan cleaning and disin-tection.

Ensure when using other products for cleaning and distin-fection. • Not the products are basically utilizate for the cleaning and dishelicent of (intraments • Inot the cleaning and disinfection agent # if applicable-is suitable for Utilizativic cleaning (ine foraming) • that a cleaning and disinfection agent with preven affi-cacy (e.g. Deffer of RA opproved and CE Mork) is used • that the chemicals used are compatible with the intru-ments; ablind cleaning solutions though the pretened. A preequality for the use of a centioned cleaning distin-fection agent is very low bacterial previous free disting for by the monutacture of the cleaning-diminetion open must be singly achieved to utilize of owners to bacteria (the anity healt) mixed abilitions (max. 0.35 and bacter units (for drying, instruments that cannot be outocleaved must be disinfacted before ach use.

## Process: Cleaning and disinfection

## Automotic cleaning in a cleaning and disinfection unit in combination with the cleaning agent recommended by the unit manufacturer. Procedure: Insert the instruments so that the liquid can flow but of the arian tubes and blind holes. Set the cycle and adhere to the unit manufacturer's wall and this times; The cleaned components through be examined for vibible air when remo-ving the instruments: If increasing repeat the cycle or olean manually.

Manual cleaning 1. Innoraginity clean divintection/cleaning agent from the in-strument by inding them with water and, if required with the still of a soft sylon bash. <u>Illusionic cleanue</u> floors the companent in a backet, avoid accentic, bhadows. Add on entymatic, cleaning agent to the vater and clean the companents of a lam-portative of 40–50° C in the ultrasonic cleaner (35-40 kHz). for 3 minutes. Ensure that the attrapanents are immersed completely in the water without bubbies. 2. Then remove the instruments from the cleaning solution and rins them theromous the theoring ultranic days. If possible

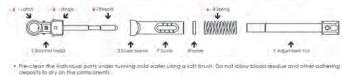
- posible 3. Then dry the instruments with compressed bir 4. Check the instruments visually and repeat the cleaning stage. If necessary 5. Pack the instrument as soon as possible after removal (see Section "Fackging". If necessary after drying again of a cleaningation.

## Clean (acction). Document the approval.

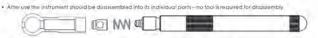
Mechanical cleaning. Cleaning, disinfaction and drying in accordance with DIN ENGD 55637.2005 and DIN EN 5883/2006 Pre-cleaning: Place the disasembled instruments in cold water for 5 minutes. The bivan the disasembled instru-ments with a soft nyion bius under water to remove course impunities. Impunities. Mechanical cleaning: e.g. using the Miele 8535 CD unit at 55° C for 3minutes (programme Varia TD) with an enzymatic cleaner.

## Schematic diagram of the TW/TW2 forque wrench

· Attenuse the instrument should be discussed mbled into its incluidual parts - no tool is required for disassembly



## Schematic diagram of the RAT2 ratchet



Pre-clean the individual parts under running cold water using a soft brush. Do not allow blood residue and offer adhering deposition to dry on the components, The ratchet should be outloclaved in the disastembled stofe and reastembled immediates use.

## BIOMED

# Important points • All instruments must be skellised aller cleaning. • When settings multi-part instruments in an autoclave without a drying programme. If is essential that the instru-ments are adways skellied in a disasembled iddel • The instruments includ always be checked for comado • The scaling of the instruments must dill be wrighted • The scaling of the instruments whould be replaced. • Regrading of the instruments whould be replaced. • Regrading of the instruments whould be replaced. • Regrading of the instruments with Bathway be particularly collicity of the instruments with a struct packaging before using for the first time. • Preparation of all instruments with admits by particularly collicity and all instruments with admits be particularly collicity and be specially to internally coaled dills placement dids and be struct be all because and the instru-ment as single-use products buy or using them scales with an an patient. With all after instruments it must be emissed the coavies and completely clean. Null-goat be anisoted that the coavies and completely clean. Null-goat anisoted the coavies and completely clean. Null-goat who are patient. With all after instruments it must be emissed that the coavies and completely clean. Null-goat passible.

## possible

Control Check all instruments offer cleaning and cleaning/disintec-tion for containen, domoged surfaces, chipping, domoge to the shape (e.g. bent and non-concentric running instru-ments), damoged or blurb (blades) as well as containnation and dispart any damoged instruments, instruments that are still contained must be cleaned and displice(red again. Then check the function and integrity of the instruments. If is not necessary to apply care products (e.g. oil) to instruments and abutments or screws.

and bulkments or sorws. Special appects to abserve with drills and cutters theory apply calling information tar a maximum of 10 timus. Inderciptly critical, there informed a contrast of the second classifier information that an experiment of the second classifier information the information of the second classifier information of the blacks. The wear of barries the last of cutting performance if the tip is damaged, the classifier information of the blacks. The second classifier is a cutting performance if the tip is damaged, to en-tiple of the drills. It is herefolds expendicuted a set of classifier is the drills. It is herefolds expendicuted as the classifier is the drills. It is herefolds expendicuted as the classifier is the drills of the herefolds expendicuted as classifier is the drills of the herefolds expendicuted as the black which can be lifted with physiological disti-net solution. Drills should not be kept in the physiological classifier is black and a lasme into contrast during ultrasonic classifier is black and a lasme into contrast during ultrasonic classifier is the drills of the physiological during ultrasonic classifier is black and the server is the drills during ultrasonic classifier is the drills of the drills during ultrasonic classifier is the drills of the drills during ultrasonic classifier is the drills of the drills during ultrasonic classifier is the drills of the drills during ultrasonic classifier is the drills of the drills during ultrasonic classifier is the drills of the drills during ultrasonic classifier is the drills during ultrasonic during ultrasonic classifier is the drills during ultrasonic during ultrasonic classifier is the drills during the drills during ultrasonic during the drills during the drills during ultrasonic during ultrasonic during ultrasonic during ultrasonic during ultrasonic during ultrasonic during the drills during t

Packaging Soft of the instruments in the sterilisation tray and then pock ihem in single-use sterilisation packaging (single or double packaging) and/ar sterilisation container, which • complies with DIN EN 858-201/CIIN EN ISO/ANSI AAA/ILISO (1607

- (160) a subble for Heam Herification (temperature resistant up to rain, 1376 C (2079) FL adequate stream permeability) provides adequate protection of the instruments and size histotion packaging applied mechanical domage is regularly anviced acoscillar for the manufacturer's (n-thructions pterilitation container)

## Sterlination Method: Practional pre-vacuum procedure (recerrding to ISO 17665 or ISO 13060), in a

	unit that complies with EN 285
emperature:	Heat to 132° C max. (37° C
VASSIVAL	3 pre-vacuum storses with min 40 million

Interpretations: India 19 Sz Control. 19 Control 19 Sz Control. 19 Control 19 Sz Control. 19 Control 19 Sz Control

Slorage After steam in the instruments must be slored dry and dusthes in the stealikation pockaging. The instruments should also be protected appingt sunging and heat. The mountains therape befold (specify date) dependent on reveal tochors and must be determined and validated by the user.

Internation on Must be determined and vollacited by the user, Internation on Anadiing multi-part instruments Multi-part instruments multi-be discussmissed before sterilitä-from, Presse note the schematic aliagatam below. Multi-part instruments must be discussmissed by the puth-rad, The puth-rad and ratched housing (inner and outler) must be that additional and the through a constrained by the fillication and provide the schematic and the schematic fillication and provide the schematic additional and the fillication and provide the schematic additional and the schematic additional and schematic additional and the fillication and provide the schematic additional and the schematic additional and the schematic additional additional and that the valched or its parts are easi lying in water. After schematic, the ratched is that descrete the adjancies of the ratched a fillication and the additional the fillication of the ratched a fillication and the accelerate before be beginning surgery.

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

al ports - no tool is required for disass



Pre-clean the individual parts under running cold water using a saft bruth. So not allow blood residu deposits to arty on the components, the handle thould be autoclaved in the assembled state and are judged use. and other adhering

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



Fina-clean the instrument under running cold water using a soft brush. De not allow bloodnesidue and other adhering depositive for any on the handle. The handle should be thoroughly cleaned manually using an vitrasonic cleaner before mechanical cleaning including utilitationic cleaner (see above) and mechanical cleaning thould be performed in yeargode.



enewaybiamed GmbH reserves the right to change the de-sign of the products and components or their packaping, adapt instructions for use as we'll as renegatisate prices and delivery conditions (Lability is initiated to the use of defective products. Any further chains are excluded).

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Inde Dentol AG Dertplatz 11 CH-8737 Gommisweld SWITZERLAND Tell. +41 (0)55 273 73 23 manu England Com

onewayblamed GmbH Dofplatz 11 CH-8737 Gommswald SWITZERLAND Tal. +41 (0)55 293 23 23 www.onewayblamed.com

ООО Ванвей Биомед

123056, Pocolist, F. Mockac yA, 5, fpysinkcros 60, ctp./ +7 967 018 12 82 www.finomea.pdp

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## Warrings Wardo not I now of any wornings, provided the instructions for via are followed for the products to be used as well as the corresponding disinfection and cleaning agent.

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2



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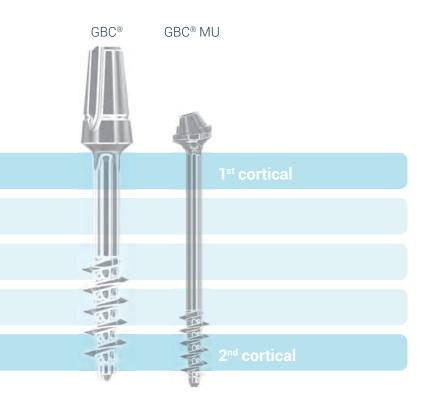
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# BIOMED



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

## Distributed by onewaybiomed GmbH

Dorfplatz 11 CH - 8737 Gommiswald / SG Phone +41 (0)55 293 23 23 Fax +41 (0)55 293 23 00 contact@implant.com www.onewaybiomed.com



Dr. Ihde Dental GmbH Erfurter Str. 19 D - 85386 Eching / München Tel +49 (0)89 319 761 0 info@ihde-dental.de