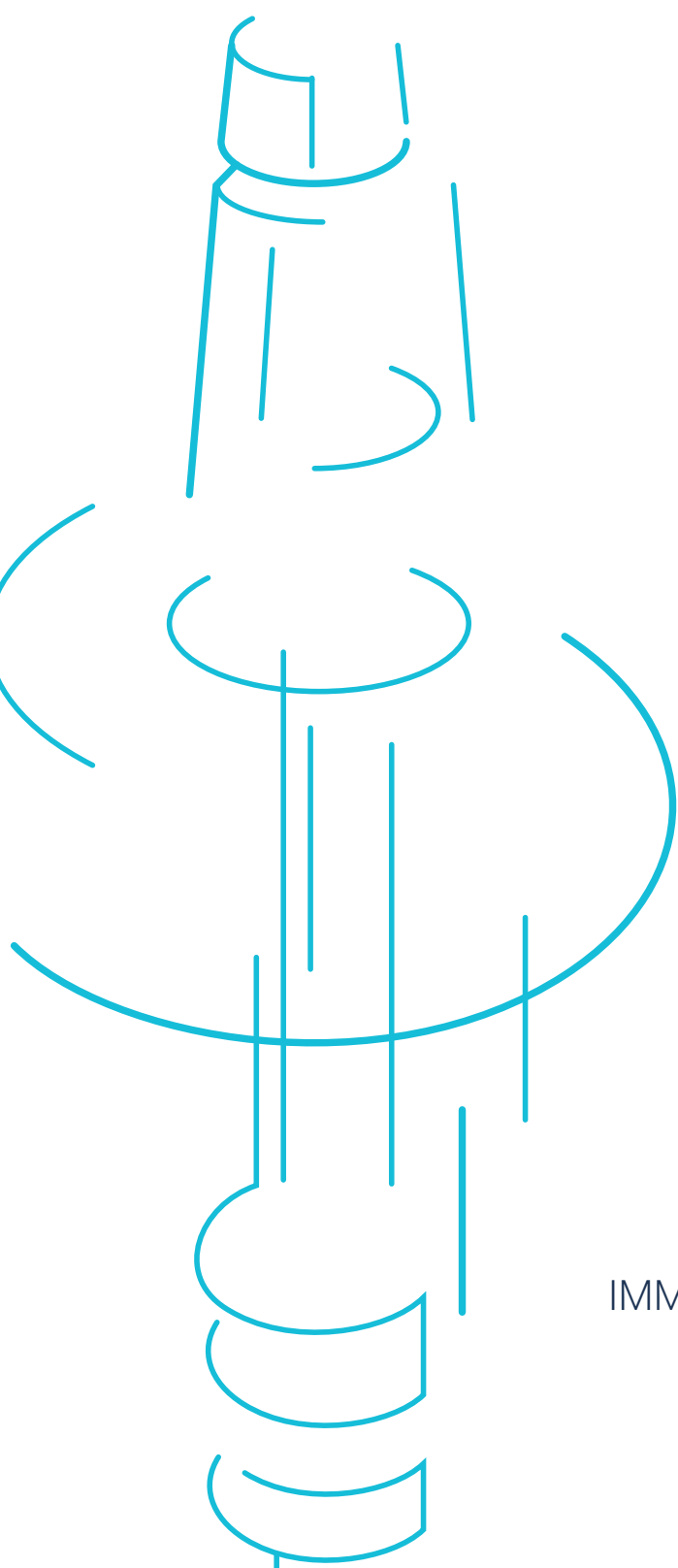


ONEWAY BIOMED



IMMEDIATE LOADING single part implants
DENTAL IMPLANT SYSTEM

GBC®

SYMBOLS FOR IMPLANT PROPERTIES AND PROSTHETIC SOLUTIONS

Small Abutment Head



Multi-Unit Abutment



Apical Wide Thread



Large Abutment Head



Micro Thread



For Screw-in Prosthetics



Ball Abutment



Bendable



For Cemented Prosthetics



Localicer® Abutment





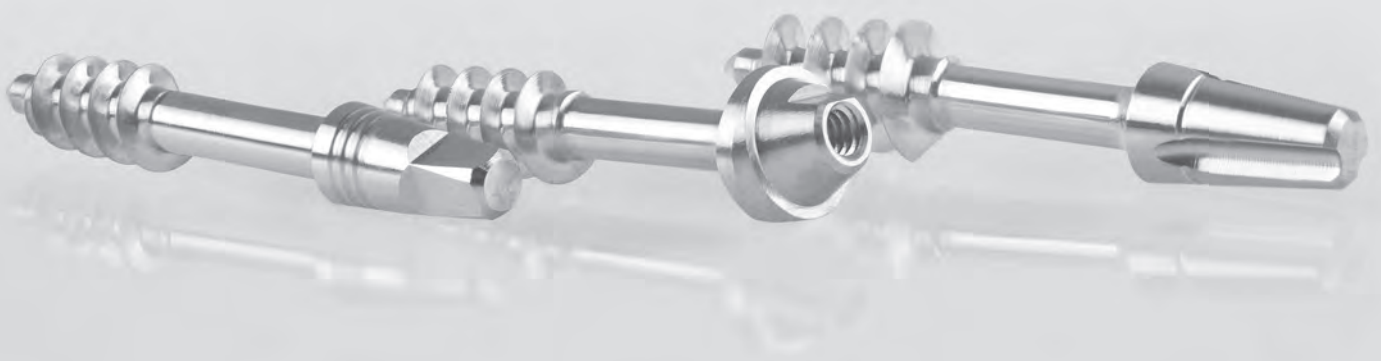
APPLICATION AREAS

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

GBC® 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 3rd post-operative day. **GBC®** implants are made of strong, biocompatible titanium alloy Ti6Al4V. **GBC®** 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.

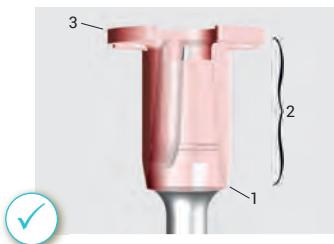


Fig. 1
The transfer cap (3) is positioned on the abutment head until the lower border of the abutment head (1) is reached. The transfer will sit firmly in this position. Then the impression is taken with silicone putty or heavy body silicone material. This allows the transfer of the implant position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

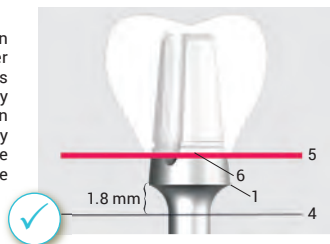


Fig. 2
The implant head was placed approximately 1.8 mm above the bone level (4). The mucosa level (5) reaches higher than the lower border of the abutment head (1). The level of the crown margin (6) and the lower border of the abutment head (1) are in a distance to each other. This avoids retention of cements and debris in the sub-mucosal 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.

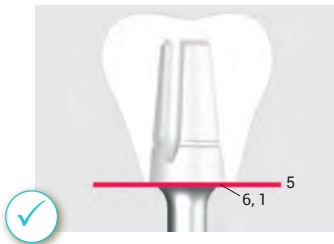


Fig. 3
The crown margin (6) will be the same level as the lower border of the abutment head (1) if the abutment head sits on the mucosa line (5).

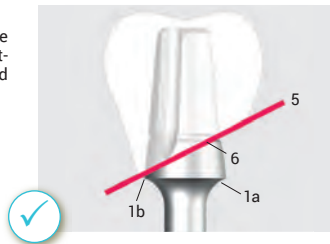


Fig. 4
If the abutment head is positioned on a mucosal slope, the lower border of the abutment head is on one side (1a) deeper in the mucosa than on the other side (1b). In such a case the crown margin (6) will also run oblique, in order to avoid submucosal position of parts of the crown. See the clinical 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.

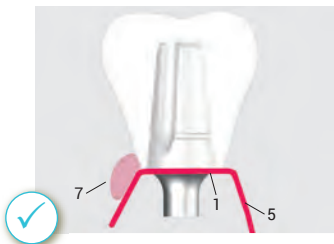


Fig. 5
For aesthetic reasons it may be necessary to create vestibular overhang portions of the prosthetic workpiece (7).

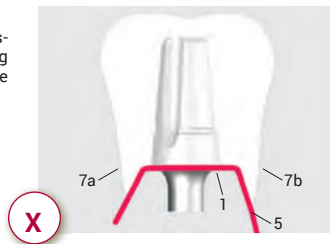


Fig. 6
It is not allowed to create such prosthetic overhangs (7a, 7b) on both sides of the prosthetic workpiece, because this would lead to a non-hygienic situation without the possibility of self cleaning. Food and debris will get stuck in the area of the mucosal penetration area of the implant and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

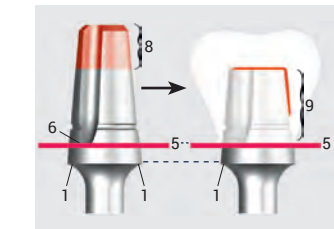


Fig. 7
If vertical height is missing, the top part of the abutment head may be shortened (region 8 is removed). At the same time it might be necessary to keep a distance between the lower margin of the abutment head (1) and the lower crown margin (6). Nevertheless the vertical cementation area (9) should be not less than 4 mm high.

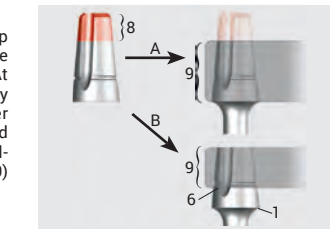


Fig. 8
If abutment heads are used as technical abutments, they are shortened after the final cementation of the prosthetic workpiece (region 8 is removed) and after the cement has fully set. This adjustment may be done at the first control appointment. They remain "open". The height of the cementing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



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 properly fitted to the abutment of the Strategic implant® 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.

THE ADVANTAGES OF GBC® IMPLANTS



For anchorage in the 1st, 2nd and if necessary 3rd cortical

For the cortical anchorage of dental prostheses

Can be used in sockets for a given indication immediately after extraction and loaded immediately in many cases

Mechanically smoothed surface in all areas

Self-tapping thread with endosseous anti-rotation protection

Conditionally suitable for individual tooth prostheses

Made of highly resistant titanium alloy

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 Ø from 3.5 to 4.6 mm, not less than **eight** implants should be used for the complete **mandible**.

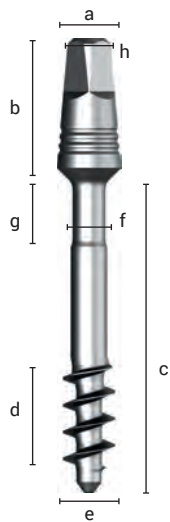
The phase of adaptation and consolidation of the cortical bone in which these implants are anchored (2nd or 3rd cortical) must be considered to be 24 months after the insertion of the implants. So there is a significant difference to the healing times for implants that are used according to the method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

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

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



Description	c	d	e	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

USE LIMITATIONS 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.

a) Max. abutment Ø	3.35 mm
b) Abutment height	6.8 mmh
c) Nominal length	10 - 32 mm
d) Length of apical thread	4.5 / 5.5 mm
e) Enossal Ø	max. 2.7 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	IT K, AHK

TWIST DRILL

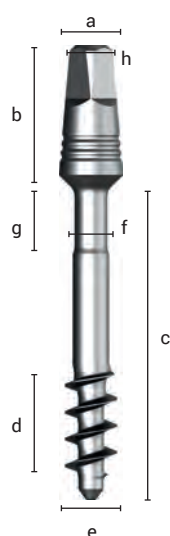


Description	Ø	Max. working length	REF	Price cat.
Twist Drill 1.8/23	1.8 mm	23 mm	BM1370	D

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	c	d	e	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

USE LIMITATIONS 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	IT K, AHK

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.

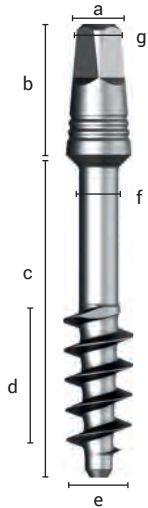


Description	Colour	Max. working length	REF	Price cat.
BCDX 1	yellow	15 mm	BM2103	C

GBC® IMPLANTS WITH SMALL ABUTMENT HEAD

GBC® implants 3.5 mmd - 4.5 mmd

For anchorage in the 1st, 2nd and if necessary 3rd cortical, for the cortical anchorage of dental prostheses. GBC® 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® 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.




	Description	c	d	e	REF	Price cat.
	GBC 3.5 10	10	5.5	3.5	BM2010	G
	GBC 3.5 12	12	5.5	3.5	BM2048	G
	GBC 3.5 14	14	7.5	3.5	BM2011	G
	GBC 3.5 17	17	7.5	3.5	BM2026	G
	GBC 3.5 20	20	7.5	3.5	BM2012	G
	GBC 3.5 23	23	7.5	3.5	BM2013	G
	GBC 3.5 26	26	7.5	3.5	BM2014	G
	GBC 3.5 29	29	7.5	3.5	BM2015	G
	GBC 3.5 32	32	7.5	3.5	BM2042	G
	GBC 3.5 35	35	7.5	3.5	BM2043	G
	GBC 3.5 38	38	7.5	3.5	BM2044	G
	GBC 4.5 10	10	7.5	4.5	BM2055	G
	GBC 4.5 12	12	7.5	4.5	BM2056	G
	GBC 4.5 14	14	7.5	4.5	BM2016	G
	GBC 4.5 17	17	7.5	4.5	BM2017	G
	GBC 4.5 20	20	7.5	4.5	BM2018	G
	GBC 4.5 23	23	7.5	4.5	BM2019	G
	GBC 4.5 26	26	7.5	4.5	BM2020	G
	GBC 4.5 29	29	7.5	4.5	BM2021	G


- a) Max. abutment Ø 3.35 mm
- b) Abutment height 6.8 mm
- c) Nominal length 10 - 38 mm
- d) Length of thread 5.5 / 7.5 mm
- e) Enossal Ø 3.5 / 4.5 mm
- f) Neck Ø at the top 2.0 mm
- g) Square AF (across flats) 1.9 mm


Max. insertion torque 80 Ncm

INCLUSIVE

GBC® 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

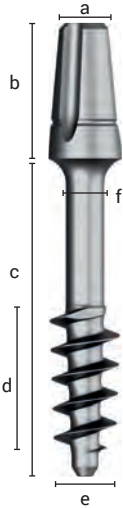


FIELD OF APPLICATION

Endosseous dental implant for 2nd cortical anchorage. For full upper jaws we recommend the usage of 10 - 12 or more implants, for full lower jaws the usage of 8 - 10 implants or more. For unilateral segments we recommend to use 4 - 6 implants.

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) Abutment Ø 3.9 mm
- b) Abutment height 7.2 mm
- c) Nominal length 8 - 29 mm
- d) Length of thread 3.5 - 7.5 mm
- e) Enossal Ø 3.6 - 5.5 mm
- f) Neck Ø at the top 2.0 mm

Max. insertion torque 80 Ncm

Description	c	d	e	REF	Price cat.
GBC 3.6 10*	10	5.5	3.6	BM2070	H
GBC 3.6 12*	12	5.5	3.6	BM2107	H
GBC 3.6 14*	14	7.5	3.6	BM2071	H
GBC 3.6 17*	17	7.5	3.6	BM2072	H
GBC 3.6 20*	20	7.5	3.6	BM2073	H
GBC 3.6 23*	23	7.5	3.6	BM2074	H
GBC 3.6 26*	26	7.5	3.6	BM2075	H
GBC 3.6 29*	29	7.5	3.6	BM2076	H
GBC 4.6 8*	8	3.5	4.6	BM2108	H
GBC 4.6 10*	10	5.5	4.6	BM2077	H
GBC 4.6 12*	12	4.5	4.6	BM2109	H
GBC 4.6 14*	14	7.5	4.6	BM2078	H
GBC 4.6 17*	17	7.5	4.6	BM2079	H
GBC 4.6 20*	20	7.5	4.6	BM2080	H
GBC 4.6 23*	23	7.5	4.6	BM2081	H
GBC 4.6 26*	26	7.5	4.6	BM2082	H
GBC 4.6 29*	29	7.5	4.6	BM2083	H
GBC 5.5 8	8	3.5	5.5	BM2111	K
GBC 5.5 10	10	5.5	5.5	BM2051	K
GBC 5.5 12	12	6.0	5.5	BM2022	K
GBC 5.5 14	14	6.0	5.5	BM2023	K
GBC 5.5 17	17	6.0	5.5	BM2024	K
GBC 5.5 20	20	6.0	5.5	BM2047	K
GBC 5.5 23	23	7.5	5.5	BM2116	K
GBC 5.5 26	26	7.5	5.5	BM2117	K
GBC 5.5 29	29	7.5	5.5	BM2118	K

INCLUSIVE

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

*** FIELD OF APPLICATION**

Endosseous dental implant for 2nd cortical anchorage. For full upper jaws we recommend the usage of 10 - 12 or more implants, for full lower jaws the usage of 8 - 10 implants or more. For unilateral segments we recommend to use 4 - 6 implants.



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



ACCESSORIES

Analogue **IAB**
Pack of 5
REF 462106
Price cat. B



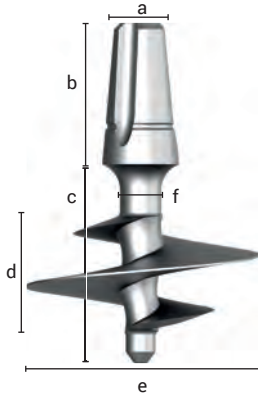
Impression post **TSPA 5**
Pack of 5
REF 462030
Price cat. B



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

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




	Description	c	d	e	f	REF	Price cat.
	GBC 7.0 8	8	5.5	7	2.0	BM2112	K
	GBC 7.0 10	10	5.5	7	2.0	BM2106	K
	GBC 7.0 12	12	5.5	7	2.0	BM2030	K
	GBC 7.0 14	14	5.5	7	2.0	BM2031	K
	GBC 7.0 17	17	5.5	7	2.0	BM2032	K
	GBC 7.0 20	20	5.5	7	2.0	BM2046	K
	GBC 9.0 8	8	5.5	9	2.1	BM2113	M
	GBC 9.0 10	10	5.5	9	2.1	BM2033	M
	GBC 9.0 12	12	5.5	9	2.1	BM2034	M
	GBC 9.0 14	14	5.5	9	2.1	BM2035	M
	GBC 10.5 10	10	6.5	10.5	2.1	BM2039	M
	GBC 10.5 12	12	6.5	10.5	2.1	BM2040	M
	GBC 10.5 14	14	6.5	10.5	2.1	BM2041	M
	GBC 10.5 17	17	6.5	10.5	2.1	BM2050	M
a) Abutment Ø	3.9 mm						
b) Abutment height	7.2 mm						
c) Enossal length	8 - 20 mm						
d) Length of thread	5.5 - 6.5 mm						
e) Enossal Ø	7 - 12 mm						
f) Neck Ø at the top	2.0, 2.1 mm						
Max. insertion torque 80 Ncm							
	GBC 12.0 8	8	5.5	12	2.1	BM2114	O
	GBC 12.0 10	10	5.5	12	2.1	BM2036	O
	GBC 12.0 12	12	6.5	12	2.1	BM2037	O
	GBC 12.0 14	14	6.5	12	2.1	BM2038	O

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


INCLUSIVE

GBC® 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

ACCESSORIES

Analogue IAB
Pack of 5
REF 462106
Price cat. B

  Impression post TSPA 5
Pack of 5
REF 462030
Price cat. B

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



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



DRILLS

Description	Length	Code	REF	Price cat.
 Adapter	100 mm	BCD 1 Adapter	BM1222	F
 Twist Drill	110 mm	Twist Drill 2.0	BM1220	F

INSERTION TOOLS

Description	Length	Code	REF	Price cat.
 For GCS®, GCS® B, KDS, GBC 3.5, GBC 4.5	70 mm	Adapter UST 2	BM2062	D
 For GCS® X, GCS® TX, GCS® Plus, GBC 3.6, GBC 4.6, ab > 5.5	70 mm	Adapter UST 1	BM2063	F

USE OF THE HANDGRIP

ON THE EXAMPLE OF A LARGE ABUTMENT HEAD GBC® IMPLANT

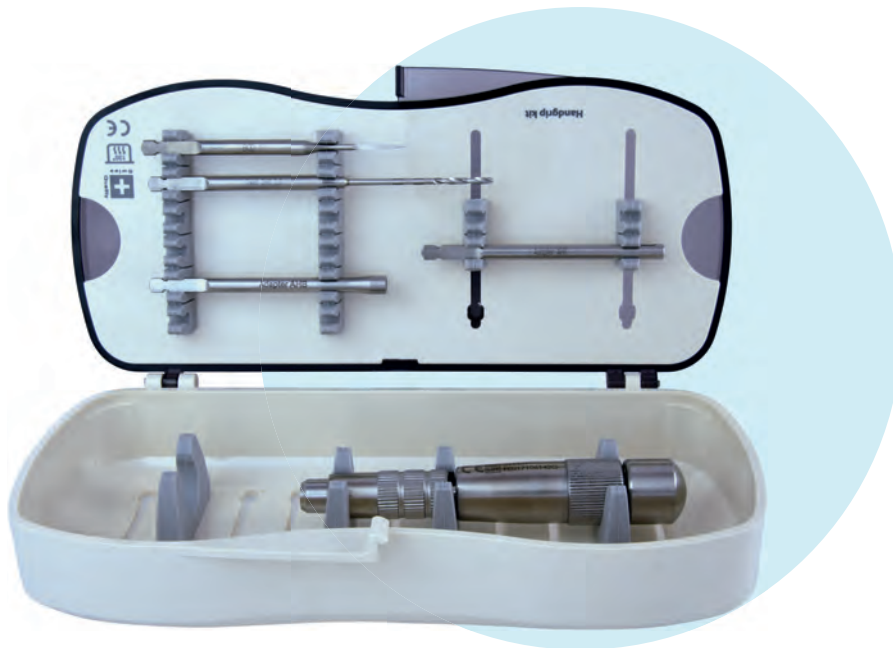


1. Use of the handgrip



2. Break off and implant immediately in the designated place



HANDGRIP TRAY

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

Description

BCD 1 Adapter
 Twist Drill 2.0
 Adapter UST 2
 Adapter UST 1
 Handgrip

Length

100 mm
 110 mm
 70 mm
 70 mm
 110 mm

REF

BM1222
BM1220
BM2062
BM2063
BM1360






Price €

Handgrip tray w/o content
Handgrip tray with content



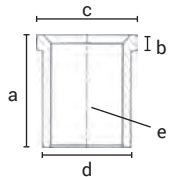
BM2061 **upon request**
SBM2061 **upon request**

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.
ALTERNATIVE	 Impression post castable, POM For small head Internally round	Pack of 5	TSPA 4	BM1394	B
	 Impression post castable, POM For small head Internally round	Pack of 5	TSPA 4	BM1372	B
	 Impression post castable, POM For large head Internally round	Pack of 5	TSPA 5	BM1393	B
	 Impression post castable Internally edged	Pack of 5	PA X	462136	B
	Double analogue, metal	1 piece	IA4/IAU	BM5119	A
	Double analogue, plastic	Pack of 5	IA4/IAU	BM5118	B
	Castable abutment and base for provisionals For small head 7 mm high, white, internally round	Pack of 5	PO4	BM1317	B
	Castable abutment For large head Internally round	Pack of 5	POB	BM5121	B

GUIDE JACKET

	Description	Unit	Material	REF	Price cat.
	BFH 2.0 guide jacket 2.0mmd	Pack of 5	Ti6Al4V	BM7100	B
	BFH 2.5 guide jacket 2.5mmd	Pack of 5	Ti6Al4V	BM7101	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			



Model with residual teeth for the fabrication of a drill guide for creating cavities for fixing the later drill guide for implant cavities.







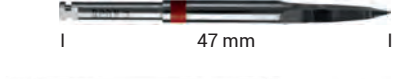

Drill guide for creating cavities for later fixation of the surgical drill guide.



Surgical drill guide for safe GBC® 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.

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

TWIST DRILLS

	Description	Ø	Max. working length	REF	Price cat.
	Twist Drill 1.8/23	1.8 mm	23 mm	BM1370	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
	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	SHMCS	BM6026	F
	Hard metal bone cutter long, for FG	36 mm	SHMCL	BM6027	F

INSERTION TOOLS AND ADAPTER

	Description	Code	REF	Price cat.
	For GBC® implants with Ø 3.5 mm + 4.5 mm	IT K	BM1336	D
	Insertion tool short, for small head Use with RAT 2 and TW2	ITS K	BM1338	D
	Adapter for GBC 3.5 / 4.5 Use with handgrip REF 311431	AHK	BM2062	D
	Insertion tool long, for large head Use with RAT 2 and TW2	UST 2 M	BM2064	E
	For GBC® 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	B
Titanium wire (5 piece á 15cm/pack)	TiGr.2	2.0 mm	BM2002	B
Titanium wire (5 piece á 15cm/pack)	Ti6Al4V	2.0 mm	BM2003	B



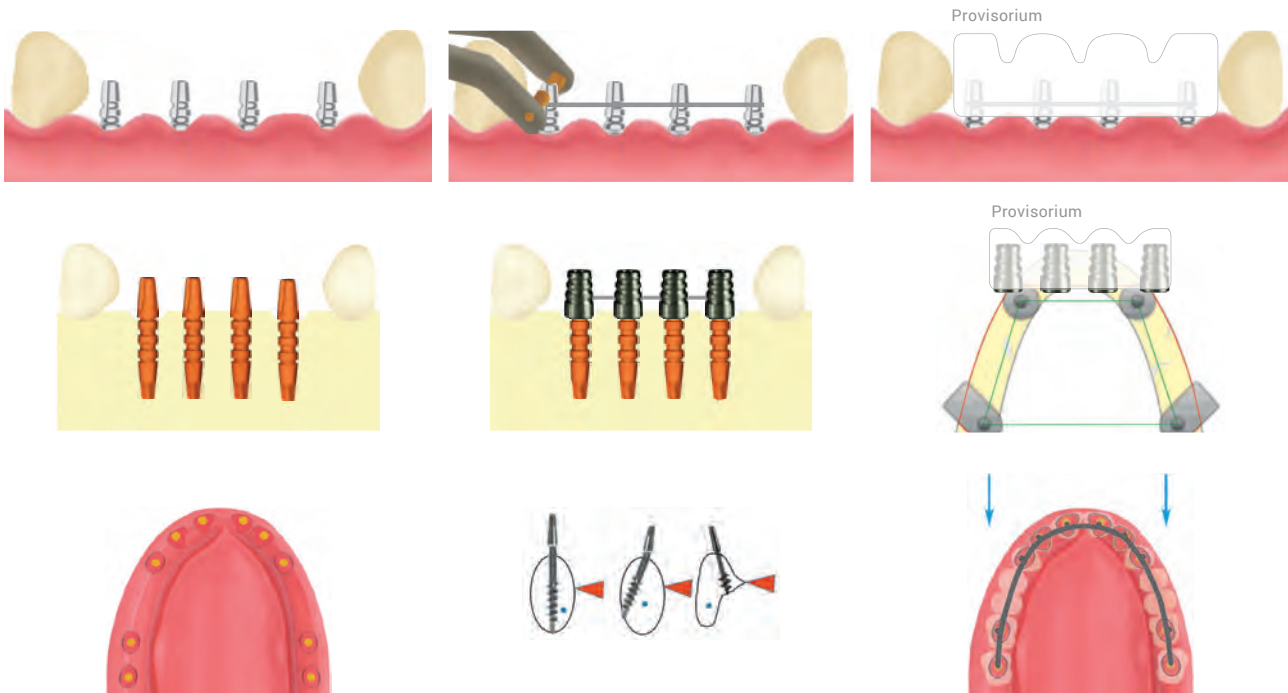
TITANIUM CAPS FOR LASER CONNECTION

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
- 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	B
	Titanium cap, radio opaque For large head For GCS X, GCS Plus, GBC 3.6, GBC 4.6-GBC 12	MA5	BM6025	B

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

	Description	Material	Systeme	REF	Price cat.
	Scanbody-4 For small head	Peek	GCS, GBC	BM1561	B
	Scanbody-5 For large head	Peek	GCS, GBC	BM1562	B

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.


		Description	Code	REF	Price cat.
	 AA15 KK	Adapter, 15° For small head	AA15 KK	BM1303	C
	 AA25 KK	Adapter, 25° For small head	AA25 KK	BM1305	C
	 AA5 15°	Adapter 15° For large head	AA5 15°	BM1197	C
	 AA5 25°	Adapter 25° For large head	AA5 25°	BM1198	C

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° For small head Reducible and castable Pack of 5	7.5 mm	AAL 15 KK	BM1308	C

LAB ANALOGUE

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

CASTABLE ABUTMENT AND IMPRESSION TRANSFER

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

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	A

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	
IT K	GCS/GBC	small	BM1336	Twist Drill 1.8/23	GBC	BM1370	
UST 1 S	GCS/GBC	small	BM1338	BCD 1	GCS/GBC	BM2100	
ITW K	GCS/GBC	small	BM1340	BCD 2	GCS/GBC	BM2101	
ITWH K	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 content		SBM4264	upon request
IT TB K	GCS *		BM1345				

* The content for the system GCS® is optional

INSERTION TOOLS

		Description	Type	Length	For implant	REF	Price cat.
		IT K	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
		IT2W		23 mm	GCS, GBC	BM3339	E

STARTER TRAY

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



Description	REF	Price €
IT K	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	
Torque wrench TW2	BM1356	
Starter tray w/o content	BM6505	upon request
Starter tray with content	SBM6505	upon request

THE ADVANTAGES OF GBC® MU IMPLANTS



For occlusal
screwed bridges

Feature a
pre-angulation
of 15°

May be bent
additionally, using the
insertion tool

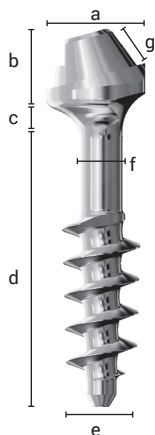
In conjunction
with the clinically
possible rotational
positions of the head,
virtually all possible
angulations can be
realized

May be used
by authorized users
only

Made of highly
resistant
titanium alloy

GBC® MU IMPLANTS

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



a) Abutment Ø	4.8 mm
b) Abutment height	3.7 mm
c) Trans-mucosal height	0.8 mm
d) Enossal length	8 - 38 mm
e) Enossal Ø	3.6 - 7.0 mm
f) Neck Ø	2 mm
g) Height of connecting part	2 mm
Prosthetic screw	SFK MU

Description	REF	Price cat.	Description	REF	Price cat.
GBC MU 3.6 8	BM1298	N	GBC MU 4.6 23	BM1286	N
GBC MU 3.6 10	BM1299	N	GBC MU 4.6 26	BM1287	N
GBC MU 3.6 12	BM1277	N	GBC MU 4.6 29	BM1288	N
GBC MU 3.6 14	BM1200	N	GBC MU 4.6 32	BM1289	N
GBC MU 3.6 17	BM1201	N	GBC MU 4.6 35	BM1290	N
GBC MU 3.6 20	BM1202	N			
GBC MU 3.6 23	BM1203	N	GBC MU 5.5 10	BM1204	N
GBC MU 3.6 26	BM1278	N	GBC MU 5.5 12	BM1205	N
GBC MU 3.6 29	BM1279	N	GBC MU 5.5 14	BM1206	N
GBC MU 3.6 32	BM1215	N	GBC MU 5.5 17	BM1259	N
GBC MU 3.6 35	BM1216	N	GBC MU 5.5 20	BM1260	N
GBC MU 3.6 38	BM1217	N	GBC MU 5.5 23	BM1241	N
			GBC MU 5.5 26	BM1242	N
GBC MU 4.6 8	BM1280	N			
GBC MU 4.6 10	BM1281	N	GBC MU 7.0 10	BM1207	N
GBC MU 4.6 12	BM1282	N	GBC MU 7.0 12	BM1208	N
GBC MU 4.6 14	BM1283	N	GBC MU 7.0 14	BM1262	N
GBC MU 4.6 17	BM1284	N	GBC MU 7.0 17	BM1263	N
GBC MU 4.6 20	BM1285	N	GBC MU 7.0 20	BM1264	N

MULTI-UNIT LAB SET

Description	Code	REF	Price cat.
Titanium base Use with SF K MU	T-Base MU	BM3169	
Castable abutment Use with T-Base and SF K MU	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
  	Hex Instrument 1.25, length 14 mm short	HTS 1.25	BM3023	C
	Hex Instrument 1.25, length 21 mm medium	HT 1.25	BM3022	C
	Hex Instrument, length 45 mm long	HTX 1.25	BM7764	C
	Scan abutment for MU implants Incl. screw SSA MU Sterilisable, two-part, material Ti6Al4V	SAB MU	BM3135	D
Parts for passive connection of the bridge frame	Prosthetic screw for GCS® MU and GBC® MU	SF K MU	BM3159	B
	Castable abutment Use with T-Base and SF K MU	PA2 MU	BM3170	B
	Titanium base * Use with SF K MU (REF 418164) For GCS® MU, GBC® MU and Hexacone Plus MU	T-Base MU	BM3169	B
Parts for UCLA technique	Prosthetic screw For GCS® MU and GBC® MU	SF K MU	BM3159	B
	Castable abutment UCLA For direct use on MU implants SF K MU sold separately	PA MU	BM3200	B
Part for UCLA technique & passive connection	Digital lab analogue for MU implants* For GCS® MU, GBC® MU and Hexacone MU	IA K MU	BM3178	B
  	Long screw for prosthetic use or as pick-up screw for use with HLT MU Tool: HT 1.25, material Ti6Al4V	SFL MU	BM3218	B
	Transfer for pick-up impressions Straight Delivery incl. SFL MU	HLT MU	BM3152	C
	Temporary base SF K MU or SFL MU sold separately	TC MU	BM3151	D

EXTENSION SET FOR GBC® TRAY

Works with all MU implants

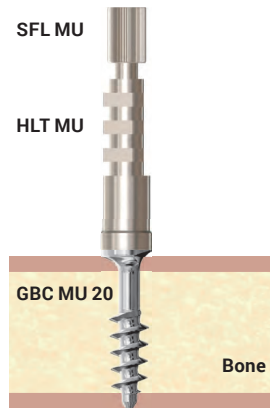
* PLEASE GO TO [HTTPS://IMPLANT.COM/EN/DOWNLOADS](https://implant.com/en/downloads) TO DOWNLOAD THE CORRESPONDING STL FILES
 SEE PAGE 16 FOR SCANBODIES FOR DIGITAL IMPRESSIONS ON MU IMPLANTS

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-impres- sion.



4.

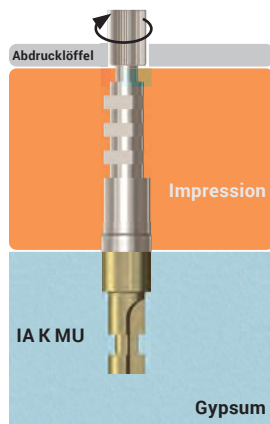
T-Base is sandblasted from the outside and cleaned.

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



2.

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



5.

All T-Base are fixed to the im- plants with SF K MU or the long screw SFL MU. Then all T-Base are glued with adhesive ce- ment to the bridge frame.

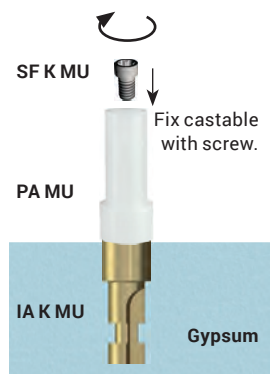
This guarantees a passive fit. Composite excess is removed and the site is polished.



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.

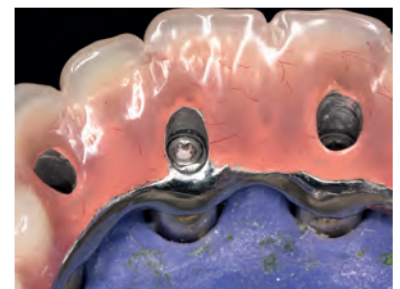
Now the modulation can be created and the frame is veneered. Veneering is possible with acryl, composite and ce- ramics.



6.

Now the bridge may be scre- wed on passive with SF K MU.

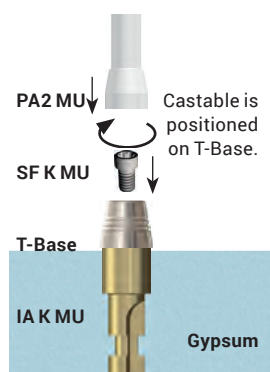
Screw canals are closed with temporary filling material or composite, taking into consi- deration that later access must be possible.



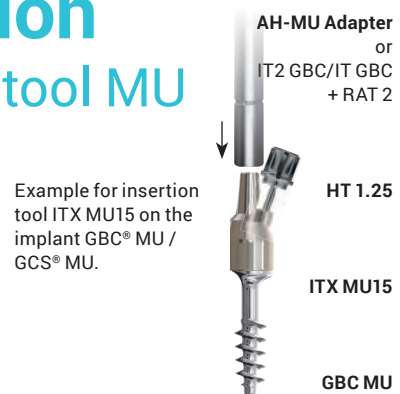
3. b

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 ce- ramics.



Application of insertion tool MU



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

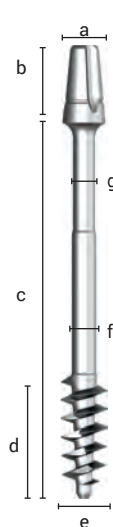
GZI ZYGOMA SCREW IMPLANTS

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-ptyergoid region.

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

Material Highly resistant titanium alloy Ti6Al4V.



Description	Enossal Ø	Length	REF	Price cat.
GZI 4.6 35	4.6	35	BM2090	K
GZI 4.6 37.5	4.6	37.5	BM2091	K
GZI 4.6 40	4.6	40	BM2092	K
GZI 4.6 42.5	4.6	42.5	BM2093	K
GZI 4.6 45	4.6	45	BM2094	K
GZI 4.6 47.5	4.6	47.5	BM2095	K
GZI 4.6 50	4.6	50	BM2096	K
GZI 4.6 52.5	4.6	52.5	BM2120	K
GZI 4.6 55	4.6	55	BM2121	K

a) Abutment Ø	3.9 mm
b) Abutment height	7.2 mm
c) Enossal length	35 - 55 mm
d) Length of thread	10 mm
e) Enossal Ø	4.6 mm
f) Neck Ø above thread	2.2 mm
g) Neck Ø at the top	2.0 mm

INCLUSIVE

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



Double analogue, plastic

IA4/IAU

BM5118



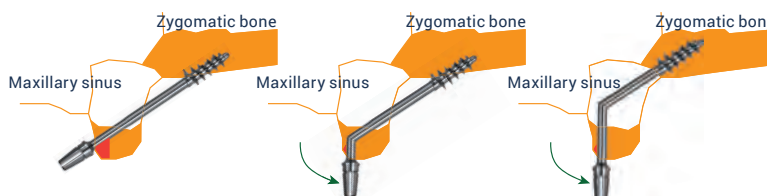
Impression post castable, internally edged, for large head
PA X

BM1429



Impression post castable, 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**).

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

	Description	REF	Price cat.
	Twist Drill 2.2 / 50 for Zygoma implants, SS	BM1428	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	B
	Double analogue, metal For large and small head	1 piece	IA4/IAU	BM5119	A
	Double analogue, plastic For large and small head	Pack of 5	IA4/IAU	BM5118	B
	Castable abutment For large head Internally round	Pack of 5	POB	BM5121	B

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® 2.7 - 3.0	BM2501	R
Single Piece Implant Pro Kit GBC® 3.5 - 4.5	GBC® 3.5 - 4.5	BM2505	R
Single Piece Implant Pro Kit GBC® 3.6 - 4.6	GBC® 3.6 - 4.6	BM2506	R
Single Piece Implant Pro Kit GBC® 4.5 - 4.6	GBC® 4.5 - 4.6	BM2503	R
Single Piece Implant Pro Kit GBC® 5.5 / 7 / 9 / 10.5 / 12	GBC® 5.5 / 7 / 9 / 10.5 / 12	BM2504	R



Quick and easy check of implant lengths thanks to the measurement chart

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.



REF	Price cat.
BM1199	N

ONEWAY BIOMED

Basal implants may only be used and operated by qualified persons with valid authorisation (para. 2 MedProdAnw Verordnung).

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.

GBC® 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.

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

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

Compilation and explanation of symbols on the packaging:



Batch No.



Sterilized by radiation



Non-sterile



Intended for use by dentists or surgeons only



Single use product



Instruction for use



Expiry date



Store in a dry place



Store tightly keep closed



Do not use if packing is damaged



Do not resterilize



Manufacturer



Production date

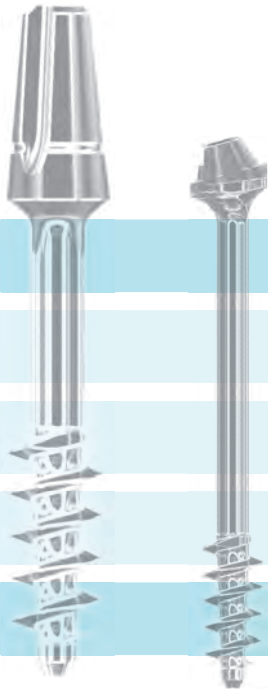


Catalogue number

BASAL SCREW

GBC®

GBC® MU



1st cortical

2nd cortical

ONEWAY
BIOMEED



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