

SYMBOLS FOR IMPLANT PROPERTIES AND PROSTHETIC SOLUTIONS



BONEWAY

THE ADVANTAGES

OF THE ENDOSSEOUS DENTAL IMPLANT SYSTEM GBL®

The surface of **GBL**[®] implants provide a specially lasered surface with exactly defined properties. For anti-rotation an internal square connects with press-fit to the abutment. The cone in combination with the internal stare provides stability and 100% tightness. **GBL**[®] implants are universally applicable for fixed and removable prosthetics.

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

www.implant.com/en/downloads

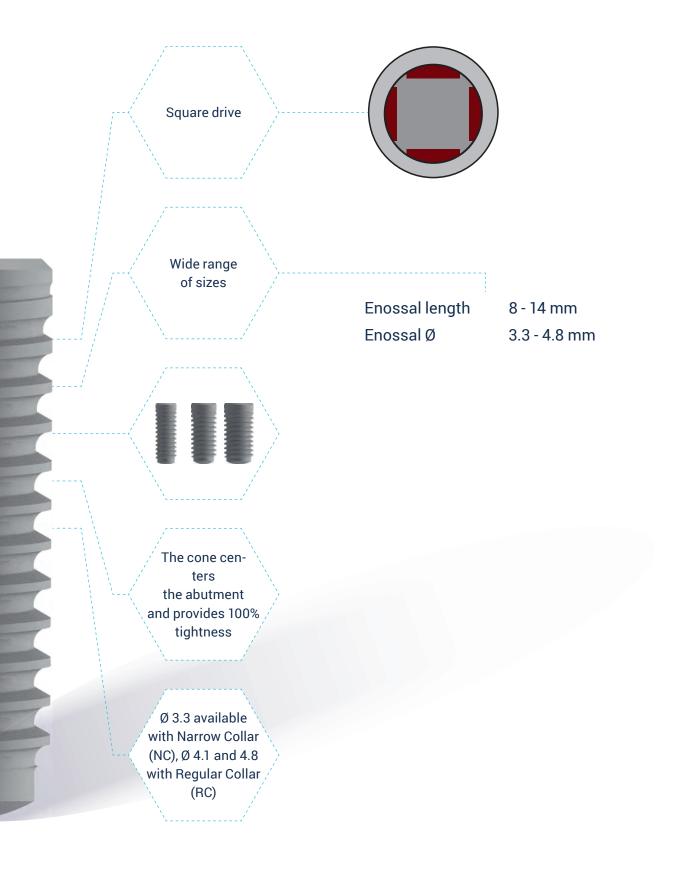
Safely antirotational thanks to its internal precision square

Cone technology for a tight seal

Universally suitable for fixed and removable prosthodontics

Made of highly resistant titanium alloy

Smart instrument tray



PREPARATORY STEPS WHEN USING A DRILLING TEMPLATE

- 1. Have your laboratory produce a drilling template with the appropriate drill holes for the marker bore. To be on the safe side, the laboratory might insert guide sleeves (**REF** BFH) into the drill holes to ensure that the drilling angle is correct. Use a 2 mm ø drill for pilot drilling.
- 2. For subsequent drilling sequences, drill stops can be used that are slid over the drill according to the appropriate depth of the drill hole and screwed in place. Consider the thickness of the mucosa and the height of the template as appropriate.

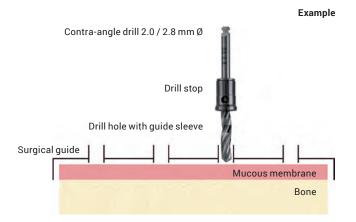
Thanks to the extremely high cutting efficiency of our drills, no ascending drilling sequences will usually be required.

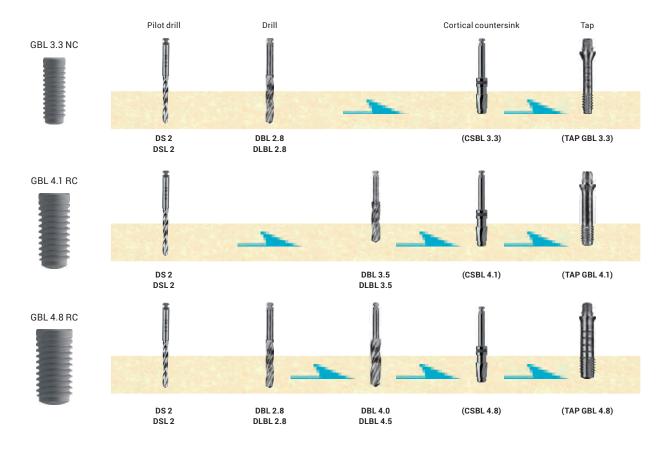
Recommended RPM: 2000-5000

Apply sufficient cooling and allow the cooling to reach the working blades of the drills. Drill stop taking from \emptyset 2.8.

SURGERY

1. Recommended drill sequence





Owing to the high quality and geometry of the blades of our drills, the final preparation may be performed immediately after the pilot drilling.

2. Implant packaging



Original packaging

BM6014	1ED (€0029
GBL 4 1 8 RC II	mplant; Ti6Al4V
LOT 163920708AS	07-2019
GBL ®	-07-2013
Osmoactive & Wet Packaging	STERILER
2 0 i on www.i	mplant.com No. 31-2

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

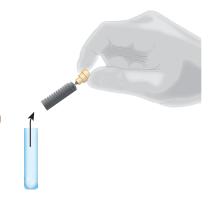


7

The open pack contains the implant in a sterile tube (primary packaging).

3. Remove the implant from its packaging

- 1. Open the Lid
- 2. The implant is attached to the cap and can be removed by breaking it off at the pre-determined breaking point
- 3. Remove the implant, making sure not to touch the inner wall of the tube



4. Handling

4.1 Connect

Attach the placement aid to the implant, holding the cap to which the implant is attached with the other hand.

4.2 Mounting the adapter ITV WST / contra-angle

Place the ITV Wst (angled handpiece) or IT ITV (ratchet) adapter on the ITV GBL placement aid. Mount the placement aid. Hold the cap firmly in one hand and break off the implant at the pre-determined breaking line.





4.3 Alternative to 4.2:

Place the IT ITV (ratchet) adapter on the ITV GBL placement aid.

Mount the placement aid. Hold the cap firmly in one hand and break off the implant at the pre-determined breaking line.

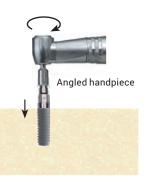
5. Insertion

Use the angled handpiece, ratchet or shank to screw the implant into the implant bed (clockwise).

The enossal aspect of the implant must be submerged in the bone. Upon **complete** insertion, the implant may be turned back ¼ revolution to reduce the load on the bone.

The system is suitable for deep insertion (below bone level).

7. Result



6. Remove insertion tool from implant

GBL* implant

GBL® implant

Loosen the insertion aid from the implant by pulling it off.

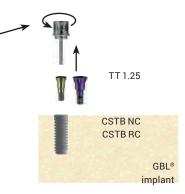
8. Aftercare

Seal the implant with a matching cover screw.

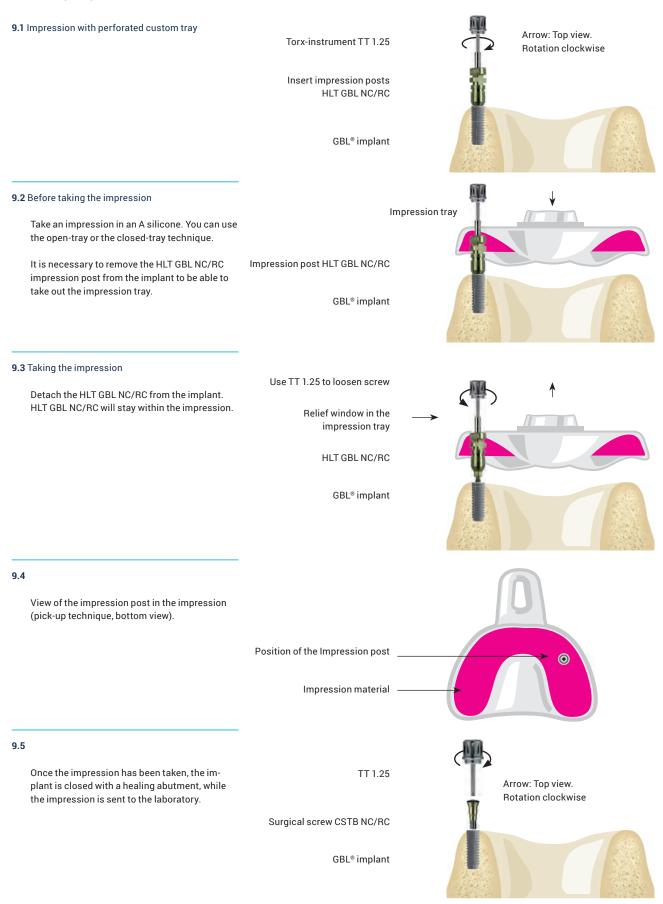


After healing time: Remove surgical screw.

Arrow: Top view. Rotation counter clockwise.



9. Pick-up impressions



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10. Closed tray impression taking

10.1 Impression with closed tray

Impression with custom tray.

Securing the impression post with the thumbscrew

TS GBL NC/RC

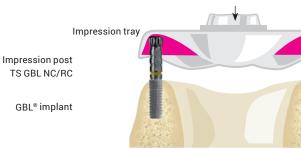
GBL® implant



10.2 Before taking the impression

Take an impression in an A silicone. You can use the open-tray or the closed-tray technique.

With the closed impression technique, the TS GBL NC/RC will always remain on the implant when removing the impression.



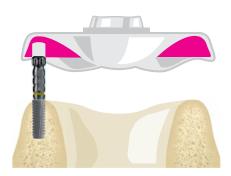
10.3 Removing the impression

In the case of closed impressions, the TS GBL NC/RC impression post will remain on the implant after removing the impression tray.

The impression post will be removed afterwards.

Impression post TS GBL NC/RC

GBL® implant



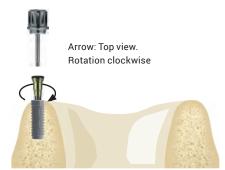
A

10.4

Once the impression has been taken, the implant is closed with an HA NC/RC healing abutment, while the impression is sent to the laboratory.

TT 1.25 insert surgical screw CSTB NC/RC

GBL® implant



Arrow: Top view.

Rotation clockwise

11. Procedures in the laboratory

11.1 Pick-up technique

Tighten the IAB against the HLT GBL (NC/RC) impression post.

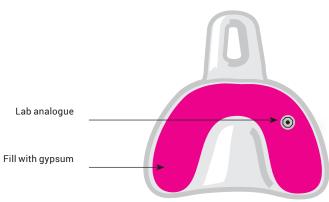
Use the TT 1.25 to insert the lab analogue

HLT GBL NC/RC

IAB NC or IAB RC

11.2 Closed technique

Secure the IAB NC/RC against the TS GBL (NC or RC) (A) Use the thumbscrew to Reposition the impression post inside the tighten the impression post impression **B** on the lab analogue. Pour the impression. Arrow: Top view. Rotation clockwise TS GBL NC/RC IAB NC or IAB RC 11.3 Pour the impression in dental stone, then remove the impression posts from the lab analogues.



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11.4

The lab analogueue will now be embedded in the gypsum in the correct position.

IAB NC/RC



11.5

Positioning of the screw-retained TLA2 15 GBL RC

abutment, determining its optimal position and correct angulation.

NOTE The square end must be inserted completely into the analogue.

TT 1.25

Insert screw

TLA2 15 GBL NC/RC Watch out for the correct square end position

IAB NC/RC

Arrow: Top view. Rotation clockwise

11.6

The correct position of the abutment must be ensured during transfer to the mouth.

TLA2 15 GBL NC/RC



11.7

If multiple angled abutments are used, the laboratory will produce a removable resin splint (e.g. from pattern resin) to facilitate positioning within the mouth.

TLA2 15 GBL RC



Pattern Resin

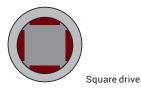
BONE LEVEL PLUS® IMPLANTS

With No-Itis® Laser Surface. The implant body is made of Ti6AI4V.



	a	Description	Enossal Ø	Enossal length	REF	Price cat.
I		GBL 3.3 8 NC	3.3 mm	8 mm	BM6010	н
		GBL 3.3 10 NC	3.3 mm	10 mm	BM6011	н
		GBL 3.3 12 NC	3.3 mm	12 mm	BM6012	н
b		GBL 3.3 14 NC	3.3 mm	14 mm	BM6013	н
		GBL 4.1 8 RC	4.1 mm	8 mm	BM6014	н
3		GBL 4.1 10 RC	4.1 mm	10 mm	BM6015	н
		GBL 4.1 12 RC	4.1 mm	12 mm	BM6016	н
		GBL 4.1 14 RC	4.1 mm	14 mm	BM6017	н
a) Enossal Ø	3.3 - 4.8 mm	GBL 4.8 8 RC	4.8 mm	8 mm	BM6018	н
b) Enossal length	8 - 14 mm	GBL 4.8 10 RC	4.8 mm	10 mm	BM6019	н
NC	Narrow Collar	GBL 4.8 12 RC	4.8 mm	12 mm	BM6020	н
RC	Regular Collar	GBL 4.8 14 RC	4.8 mm	14 mm	BM6021	н

Min. Insertion torque 35 Ncm



Delivery inclusive insertion tool ITV GBL and surgical screw REF BM6056 or BM6057



Safely anti-rotational thanks to its internal precision square

• Cone technology for a tight seal

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- Universally suitable for fixed and removable prosthodontics
- The cone centers the abutment and provides 100% tightness

SURGICAL SCREWS



Description	Code	REF	Price cat.
Surgical screw for GBL 3.3	CSTB NC	BM6058	В
Surgical screw for GBL 4.1 and 4.8	CSTB RC	BM6059	В

GINGIVAFORMER



Description		Code	REF	Price cat.
Gingivaformer	conical	GF NC 3.6 2	BM6047	В
Gingivaformer	conical	GF NC 3.6 3.5	BM6048	В
Gingivaformer	conical	GF NC 4.8 3.5	BM6049	В
Gingivaformer	conical	GF RC 4.5 2	BM6050	В
Gingivaformer	conical	GF RC 4.5 4	BM6051	В
Gingivaformer	conical	GF RC 4.5 6	BM6086	В
Gingivaformer	conical	GF RC 6 2	BM6087	В
Gingivaformer	bottle shape	GFB NC 3.3 3.5	BM6052	В
Gingivaformer	bottle shape	GFB NC 3.3 5	BM6053	В
Gingivaformer	bottle shape	GFB RC 4.4 4	BM6054	В
Gingivaformer	bottle shape	GFB RC 4.7 6	BM6055	В

BUR CYLINDER



Description	Code	REF	Price cat.
Bur cylinder for GBL 3.3 for telescope crowns	FZB NC	BM6058	D
Bur cylinder for GBL 4.1 and 4.8 for telescope crowns	FZB RC	BM6059	D

Recommended insertion torque 30 Ncm

ANALOGUES

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Description	Code	REF	Price cat.
Implant analogue for GBL 3.3	IA GBL NC	BM6060	B
Implant analogue for GBL 4.1 and 4.8	IA GBL RC	BM6061	в

STANDARD ABUTMENTS



Description	Code	REF	Price cat.
Abutment for cementing on GBL 3.3, step 1 mm high Height above step 4 mm, incl. screw SFBC NC	CAB 1 NC	BM6062	E
Abutment for cementing on GBL 3.3, step 3 mm high Height above step 4 mm, incl. screw SFBC NC	CAB 3 NC	BM6045	E
Abutment for cementing on GBL 4.1 and 4.8, step 1 mm high Height above step 5.5 mm, incl. screw SFBC RC	CAB 1 RC	BM6063	E
Abutment for cementing on GBL 4.1 and 4.8, step 3 mm high Height above step 5.5 mm, incl. screw SFBC RC	CAB 3 RC	BM6064	E
Recommended insertion torque 20 Ncm			

SCREW-RETAINED ABUTMENTS (REDUCIBLE, GRINDABLE)



Description	Code	REF	Price cat.
Abutment Incl. screw SF B	TAB GBL NC/RC	BM6032	D
Abutment for GBL 3.3, 15° angled Anti-rotational, incl. screw SFB NC	TLA2 15 GBL NC	BM6030	F
Abutment for GBL 4.1 and 4.8, 15° angled Anti-rotational, incl. screw SFB RC	TLA2 15 GBL RC	BM6031	F
Recommended incertion terrate 20 Nem			

Recommended insertion torque 20 Ncm

ANATOMICAL ABUTMENTS



Description	Code	REF	Price cat.
Anatomical abutment for GBL 3.3 Anti-rotational, incl. screw SFB NC	ANAB NC	BM6067	F
Anatomical abutment for GBL 4.1 and 4.8 Anti-rotational, incl. screw SFB RC	ANAB RC	BM6068	F

Recommended insertion torque 20 Ncm

TITANIUM BASE FOR CAD CAM



Description	Code	REF	Price cat.
Titanium base for GBL 3.3, anti-rotation Incl. screw SFB NC	MB GBL NC	BM6076	D
Titanium base for GBL 4.1 and 4.8, anti-rotation Incl. screw SFB RC	MB GBL RC	BM6077	D

CASTABLE ABUTMENTS



Description	Material	Code	REF	Price cat.
Castable abutment for GBL 3.3 Incl. metal base and screw	CoCrMo/plastic	PLAB2 GBL NC	BM6005	G
Castable abutment for GBL 4.1 and 4.8 Incl. metal base and screw	CoCrMo/plastic	PLAB2 GBL RC	BM6007	G

PICK-UP IMPRESSION POST FOR PICK-UP IMPRESSIONS



Description	Code	REF	Price cat.
Impression post for GBL 3.3	HLT GBL NC	BM6069	C
Impression post for GBL 4.1 and 4.8	HLT GBL RC	BM6046	С

IMPRESSION POST FOR CONVENTIONAL IMPRESSIONS

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Description	Code	REF	Price cat.
Impression post for GBL 3.3	TS GBL NC	BM6070	С
Impression post for GBL 4.1 and 4.8	TS GBL RC	BM6071	С
Impression post long for GBL 3.3	TSL GBL NC	BM6072	С
Impression post long for GBL 4.1 and 4.8	TSL GBL RC	BM6073	С



ABUTMENTS FOR SCREW-ON PROSTHETIC

Description Gingiva height 0.5 mm	Code TCT GBL NC 0.5	REF BM6183	Price cat. D
Gingiva height 1.5 mm	TCT GBL NC 1.5	BM6184	D
Gingiva height 3.5 mm	TCT GBL NC 3.5	BM6185	D
Gingiva height 0.5 mm	TCT GBL RC 0.5	BM6180	D
Gingiva height 1.5 mm	TCT GBL RC 1.5	BM6181	D
Gingiva height 3.5 mm	TCT GBL RC 3.5	BM6182	D

Tighten with HT 1.77

IMPRESSION TAKING AND LABORATORY ACCESSORIES

In this approach the position of the TCT hex is assigned.



LOCALICER® FOR REMOVABLE PROSTHETIC

If LOC abutments are used in the upper jaw, we recommend to place at least six implants and to splint them through prosthetics in a stable manner. Tighten with **HT 1.77**.

		Description Localicer® for GBL 3.3	Height 2 mm	Code LOC GBL NC 2	REF BM6074	Price cat. D
		Localicer [®] for GBL 3.3	3 mm	LOC GBL NC 3	BM6075	D
		Localicer [®] for GBL 3.3	4 mm	LOC GBL NC 4	BM6080	D
YD	Localicer [®] for GBL 4.1 and 4.8	2 mm	LOC GBL RC 2	BM6081	D	
	Localicer [®] for GBL 4.1 and 4.8	3 mm	LOC GBL RC 3	BM6082	D	
	Localicer [®] for GBL 4.1 and 4.8	4 mm	LOC GBL RC 4	BM6083	D	

ACCESSORIES FOR LOCALICER®



Description Analogue + impression set	Code AA LOC	REF BM3142	Price cat. C
Set with 5 caps + 1 housing (EXTERNAL PRODUCT)	NCS	BM3143	D
Pull-off force Yellow 600 g, Pink 1.200 g, Transparent 1.800 g, Violet 2.70 Black has no retention and is designed for temporary sol tions for up to one month	5		

MULTI-UNIT ABUTMENTS

Insertion of the angled MU2 abutments with HT 1.25. Insertion of the straight MU2S abutments with HT 1.77

H I P	h= 3 mm	1m	
	ómm	6,7 mm -	

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Description	Material	Code	REF	Price cat.
Abutment 17° angled Incl. screw SFB RC	Ti6Al4V	MU2 17 GBL RC	BM6670	L
Abutment 35° angled Incl. screw SFB RC	Ti6Al4V	MU2 35 GBL RC	BM6671	L
Abutment straight Gingiva height 0.5 mm	Ti6Al4V	MU2S 0.5 GBL RC	BM6672	G
Abutment straight Gingiva height 1.5 mm	Ti6Al4V	MU2S 1.5 GBL RC	BM6673	G
Abutment straight Gingiva height 2.5 mm	Ti6Al4V	MU2S 2.5 GBL RC	BM6674	G
Gingivaformer incl. SF MU2 Height above abutment shoulder 6 mm	Ti6Al4V	GF MU 2	BM2362	С
Localicer® incl. SF MU2 Height above abutment shoulder 6.7 mm Use with NCS Set REF 462338	Ti6Al4V	MU 2	BM2363	С
Prosthetic screw for MU2	Ti6Al4V	SFB RC	BM6176	В

Screw

Description	Material	Code	REF	Price cat.
Temporary base SF MU2 sold separately	Ti6Al4V	TC MU2	BM2355	D
Transfer straight incl. screw SFL MU2	Ti6Al4V	TS MU2	BM2356	С
Castable for Multi-Unit incl. screw		PA MU2	BM2357	Α
Screw for TC MU2	Ti6Al4V	SF MU2	BM2358	В
Lab analogue for Multi-Unit	Ti6Al4V	IA MU2	BM2360	В
Hex instrument long, Ø 1.25 mm		HT 1.25	BM3022	С
Hex instrument extralong: 45 mm, Ø 1.25 mm		HTX 1.25	BM7764	С
Hex instrument for suprastructures,, Ø 1.77 mr	n	HT 1.77	BM3024	с

INSTRUMENTS

	Description	Code	REF	Price cat.
(978) HAN	Pilot drill short/long 2.0 mm Ø	DS 2 DSL 2	BM1359 BM6555	D
	Pilot drill short/long 2.8 mm Ø	DS 2.8 DSL 2.8	BM1404 BM6557	D
	Form drill short 2.8 mm Ø	DBL 2.8	BM6033	E
	Form drill short 3.5 mm Ø	DBL 3.5	BM6034	E
	Form drill short 4.0 mm Ø	DBL 4.0	BM6035	E
	Cortical countersink 3.3	CSBL 3.3	BM6038	D
	Cortical countersink 4.1	CSBL 4.1	BM6039	D
6. 0001 4.8 P	Cortical countersink 4.8	CSBL 4.8	BM6040	D
	Тар	TAP GBL 3.3	BM6041	D
	Тар	TAP GBL 4.1	BM6042	D
	Тар	TAP GBL 4.8	BM6043	D

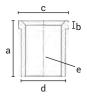
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GUIDE JACKET





Description	Unit	Material	REF	Price cat.
BFH 2.0 guide jacket 2.0 mmd	Pack of 5	Ti6Al4V	BM7100	В
BFH 2.5 guide jacket 2.5 mmd	Pack of 5	Ti6Al4V	BM7101	В
BFH 3.0 guide jacket 3.0 mmd	Pack of 5	Ti6Al4V	BM7102	В
BFH 3.2 guide jacket 3.2 mmd	Pack of 5	Ti6Al4V	BM7103	В
BFH 3.5 guide jacket 3.5 mmd	Pack of 5	Ti6Al4V	BM7104	В



a) Length	5 mm
b) Height of step	0.7 mm
c) Max. Ø top	3.7 - 5 mm
d) Nominal Ø	3 - 4.4 mm
e) Ø of drilling in the drill template	2.05 - 3.55 mm

ADAPTER

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Description	For	Length	Code	REF	Price cat.
Adapter short / contra-angle	ITV GBL	22 mm	ITV S WST	BM1366	D
Adapter long / contra-angle	ITV GBL	32 mm	ITV L WST	BM1367	D
Adapter medium / contra-angle	ITV GBL	27 mm	ITV M WST	BM1368	D
Ratchet adapter	Adapter for ITV GBL		IT ITV	BM1365	D
Drill extension Contra-angle, extends by 19 mm			DX2	BM1349	D
Universal adapter For all contra-angle instruments Use with ratchet TW2 or RAT 2, max	. 30 Ncm		UAW	BM3026	E

INSTRUMENTS AND **TOOLS**

Description Ratchet RAT 2	Type For all Hex instruments and insertion tools	REF BM1352	Price cat. K
TW2	Torque wrench, 10 - 70 Ncm. For all insertion tools, hex- and torxinstruments It is recommended to have the torque ratchets recalibrated by us once a year.	BM1356	S
TT 1.25	Torx instrument (for all screws)	BM3027	С
TT 1.25 M	Torx instrument (all screws) for contra-angle	BM3028	С
 HT 1.77	Hex instrument, long	BM3024	С
HTX 1.77	Hex instrument, extralong	BM1070	С
 PUW1	Punch	BM3002	С

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STARTER TRAY



Description	Code	REF	Price €
Adapter contra-angle short	ITVS	BM1366	
Adapter contra-angle medium	ITV M	BM1368	
Ratchet adapter for IT V	IT ITV	BM6069	
Torx instrument	TT 1.25	BM3027	
Cortical countersink 3.3	CSBL 3.3	BM6038	
Cortical countersink 4.1	CSBL 4.1	BM6039	
Cortical countersink 4.8	CSBL 4.8	BM6040	
Pilot drill	DS 2.0	BM1359	
Form drill	DBL 2.8	BM6033	
Form drill	DBL 3.5	BM6034	
Form drill	DBL 4.0	BM6035	
Тар	TAP GBL 3.3	BM6041	
Тар	TAP GBL 4.1	BM6042	
Тар	TAP GBL 4.8	BM6043	
Torque wrench	TW2	BM1356	
Starter tray empty		BM6502	upon request
Starter tray with content		SBM6008	upon request

INSTRUMENT TRAY



Description	Code	REF	Price €
Pilot drill	DS 2	BM1359	
Form drill	DBL 2.8	BM6033	
Form drill	DBL 3.5	BM6034	
Form drill	DBL 4.0	BM6035	
Standardized probe	PDG	BM1350	
Standardized probe	PDG	BM1350	
Standardized probe	PDG	BM1350	
Cortical countersink 3.3	CSBL 3.3	BM6038	
Cortical countersink 4.1	CSBL 4.1	BM6039	
Cortical countersink 4.8	CSBL 4.8	BM6040	
Тар	TAP GBL 3.3	BM6041	
Тар	TAP GBL 4.1	BM6042	
Тар	TAP GBL 4.8	BM6043	
Ratchet adapter for IT V	ΙΤΙΤΥ	BM6069	
Adapter contra-angle short	ITV S	BM1366	
Adapter contra-angle medium	ΙΤΥΜ	BM1368	
Adapter contra-angle long	ITVL	BM1367	
Universal adapter	UAW	BM3026	
Punch	PUW 1	BM3002	
Torx instrument	TT 1.25	BM3027	
Drill extension	DX 2	BM1349	
Torque wrench	TW2	BM1356	
Instrument tray empty		BM6008	upon request
Instrument tray with content		SBM6008	upon request

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We are certified DIN EN ISO 13485, and annex II of EEC Directive 93/42 EWG (2007). Product dimension described in this brochure may differ from reality for technical reasons. GBL® implants are protected by patents. GBL® is a registered trademark. In case that implants would be reprocessed (cleaned, resterilized) infections could occur, because no validated procedures for reprocessing are available.

Compilation and clarification of symbols on the pack:



Batch No.

Sterilized by radiation

STERILE R







Non-sterile



Rx ONLY

surgeons only







Single use

product















REF

Store in a dry place

Store tightly keep closed

Do not use if packing is damaged

Do not resterilize

Manufacturer

Production date

Catalogue number

i

according to 93/42/EC Directive).

(The products of this catalogue are CE marked (class I) and CE 1936 marked (class IIa and IIb)

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



Expiry date







products.

for use







Safely anti-rotational thanks to its internal precision square

Cone technology for a tight seal

Universally suitable for fixed and removable prosthodontics

The cone centers the abutment and provides 100% tightness

BIOMED



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