

# 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 /

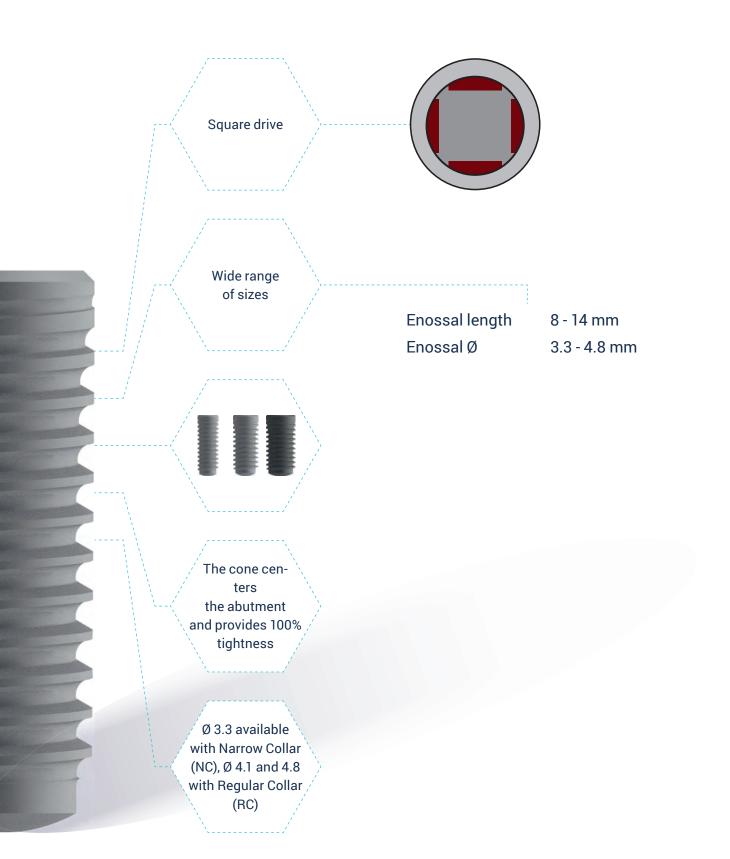
Cone technology for a tight seal

Universally suitable for fixed and removable prosthodontics

Made of highly resistant titanium alloy

Smart instrument tray





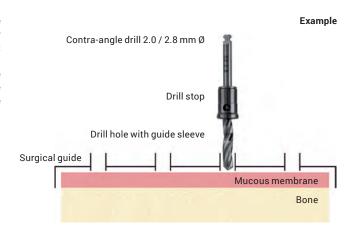
#### PREPARATORY STEPS WHEN USING A DRILLING TEMPLATE

- 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.
- 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.

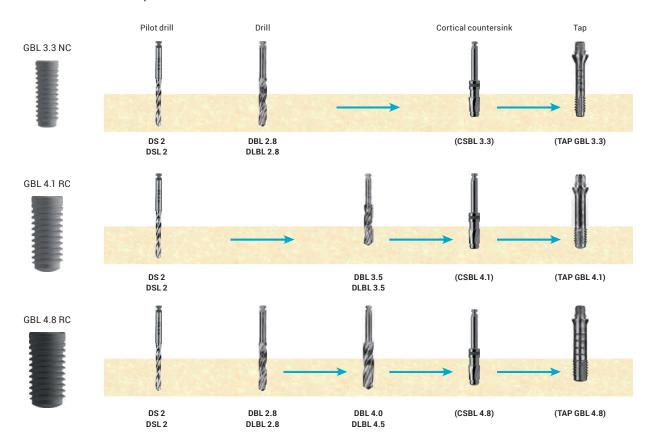
Recommended RPM: 2000-5000

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







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



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.

# $4.2\,\mbox{Mounting}$ 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).



# 6. Remove insertion tool from implant

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

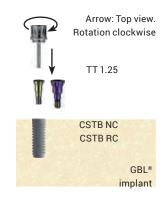


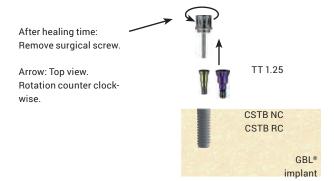
#### 7. Result



#### 8. Aftercare

Seal the implant with a matching cover screw.





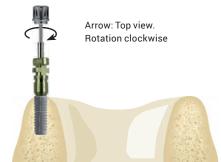
#### 9. Pick-up impressions

#### 9.1 Impression with perforated custom tray

Torx-instrument TT 1.25

Insert impression posts
HLT GBL NC/RC

GBL® implant



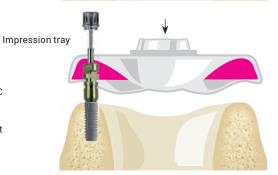
#### **9.2** Before taking the impression

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

It is necessary to remove the HLT GBL NC/RC impression post from the implant to be able to take out the impression tray.

Impression post HLT GBL NC/RC

GBL® implant



#### 9.3 Taking the impression

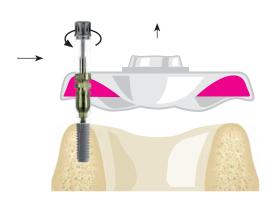
Detach the HLT GBL NC/RC from the implant. HLT GBL NC/RC will stay within the impression.

Use TT 1.25 to loosen screw

Relief window in the impression tray

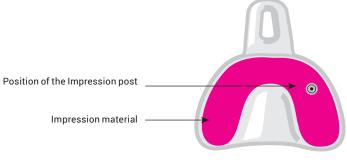
HLT GBL NC/RC

GBL® implant



#### 9.4

View of the impression post in the impression (pick-up technique, bottom view).



#### 9.5

Once the impression has been taken, the implant is closed with a healing abutment, while the impression is sent to the laboratory.

TT 1.25

Surgical screw CSTB NC/RC

GBL® implant



#### 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

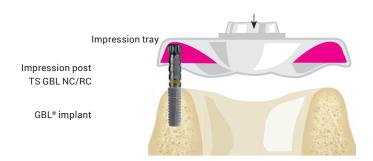
GBL® implant



#### 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.



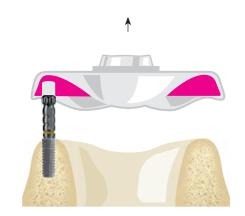
#### 10.3 Removing the impression

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.



GBL® implant

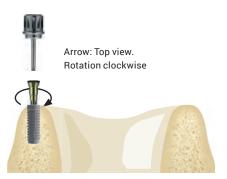


#### 10.4

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



# 11. Procedures in the laboratory

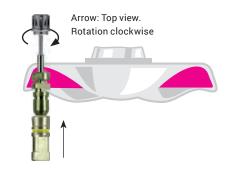
#### 11.1 Pick-up technique

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

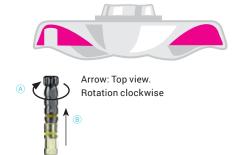
Reposition the impression post inside the impression  $\ensuremath{\mathbb{B}}$ 

Pour the impression.

Use the thumbscrew to tighten the impression post on the lab analogue.

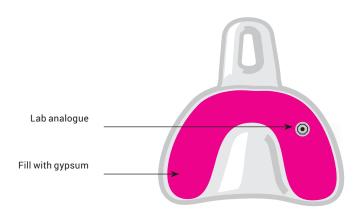
TS GBL NC/RC

IAB NC or IAB RC



#### 11.3

Pour the impression in dental stone, then remove the impression posts from the lab analogues.



#### 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



#### 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**

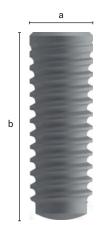
With No-Itis® Laser Surface. The implant body is made of Ti6AI4V.









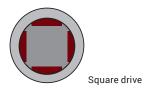


a) Enossal Ø	3.3 - 4.8 mm
b) Enossal length	8 - 14 mm
NC	Narrow Colla
RC	Regular Colla

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	Localicer	colice

Enossal Ø	<b>Enossal length</b>	REF	Price cat
3.3 mm	8 mm	BM6010	Н
3.3 mm	10 mm	BM6011	Н
3.3 mm	12 mm	BM6012	Н
3.3 mm	14 mm	BM6013	Н
4.1 mm	8 mm	BM6014	Н
4.1 mm	10 mm	BM6015	Н
4.1 mm	12 mm	BM6016	Н
4.1 mm	14 mm	BM6017	Н
4.8 mm	8 mm	BM6018	Н
4.8 mm	10 mm	BM6019	Н
4.8 mm	12 mm	BM6020	Н
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

Description GBL 3.3 8 NC

GBL 3.3 10 NC

GBL 3.3 12 NC

GBL 3.3 14 NC

GBL 4.1 8 RC GBL 4.1 10 RC

GBL 4.1 12 RC

GBL 4.1 14 RC

GBL 4.8 8 RC

GBL 4.8 10 RC

GBL 4.8 12 RC

GBL 4.8 14 RC

- 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**



<b>Description</b> Gingivaformer	conical	Code GF NC 3.6 2	REF BM6047	Price cat.
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 62	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**





Description	Code	REF	Price cat.
Implant analogue for GBL 3.3	IA GBL NC	BM6060	В
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)

	Щ
₩	V

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

# IMPRESSION POST FOR CONVENTIONAL IMPRESSIONS



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**



#### **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	Height	Code	REF	Price cat.
Localicer® for GBL 3.3	2 mm	LOC GBL NC 2	BM6074	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
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®**



<b>Description</b> Analogue + impression set	Code AA LOC	REF BM3142	Price cat.
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 2.700 g Black has no retention and is designed for temporary solutions for up to one month

#### **MULTI-UNIT ABUTMENTS**

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



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
<b>Abutment</b> 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

# **ACCESSORIES** FOR MULTI-UNIT ABUTMENTS

		Description	Material	Code	REF	Price cat.
Screw _		Temporary base SF MU2 sold separately	Ti6Al4V	TC MU2	BM2355	D
Screw	= x 2 x 1/2 = 12 x 1/2	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
6		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 mm	n	HT 1.77	BM3024	С

# **INSTRUMENTS**

	Description	Code	REF	Price cat.
0511	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
000.00	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
	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

#### **GUIDE JACKET**



# **ADAPTER**

	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	ITVLWST	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
<del></del> =	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	0 Ncm		UAW	BM3026	E

# **INSTRUMENTS** AND **TOOLS**

	Description	Туре	REF	Price cat.
( OUT	Ratchet RAT 2	For all Hex instruments and insertion tools	BM1352	К
	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
B====10	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

# **STARTER** TRAY



Description	Code	REF	Price €
Adapter contra-angle shor	rt ITVS	BM1366	
Adapter contra-angle med	lium ITV M	BM1368	
Ratchet adapter for IT V	ITITV	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	unon request

# **INSTRUMENT** TRAY



Code	REF	Price €
DS 2	BM1359	
DBL 2.8	BM6033	
DBL 3.5	BM6034	
DBL 4.0	BM6035	
PDG	BM1350	
PDG	BM1350	
PDG	BM1350	
CSBL 3.3	BM6038	
CSBL 4.1	BM6039	
CSBL 4.8	BM6040	
TAP GBL 3.3	BM6041	
TAP GBL 4.1	BM6042	
TAP GBL 4.8	BM6043	
IT ITV	BM6069	
ITVS	BM1366	
ITV M	BM1368	
ITV L	BM1367	
UAW	BM3026	
PUW 1	BM3002	
TT 1.25	BM3027	
DX 2	BM1349	
TW2	BM1356	
	BM6008	upon reques
	SBM6008	upon reques
	DS 2 DBL 2.8 DBL 2.8 DBL 3.5 DBL 4.0 PDG PDG PDG CSBL 3.3 CSBL 4.1 CSBL 4.8 TAP GBL 3.3 TAP GBL 4.8 IT ITV ITV S ITV M ITV L UAW PUW 1 TT 1.25 DX 2	DS 2 BM1359 DBL 2.8 BM6033 DBL 3.5 BM6034 DBL 4.0 BM6035 PDG BM1350 PDG BM1350 CSBL 3.3 BM6038 CSBL 4.1 BM6039 CSBL 4.8 BM6040 TAP GBL 4.1 BM6042 TAP GBL 4.1 BM6042 TAP GBL 4.1 BM6042 ITITV BM6069 ITV S BM1366 ITV M BM1368 ITV L BM1367 UAW BM3026 PUW 1 BM3002 TT 1.25 BM3027 DX 2 BM1349 TW2 BM1356 BM6008



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.

(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 clarification of symbols on the pack:



STERILE R











Batch No.

Sterilized by gamma radiation

Non-sterile

Intended for use by dentists or surgeons only

Single use product

Instruction for use

Expiry date

**\*** 





Store tightly keep closed



Do not use if packing is damaged



Do not resterilize



Manufacturer



Production date



Catalogue number



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





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