ONEWAY BIOMED

Two piece implants

DENTAL IMPLANT SYSTEM

GIO, GCO AND GIW

SYMBOLS FOR IMPLANT PROPERTIES AND PROSTHETIC SOLUTIONS

Small Abutment Head

Large Abutment Head

Ball Abutment

Localicer® Abutment

Multi-Unit Abutment

Micro Thread

Bendable

Apical Wide Thread

For Screw-in Prosthetics

For Cemented Prosthetics


ONEWAY
BIOMED

THE ADVANTAGES

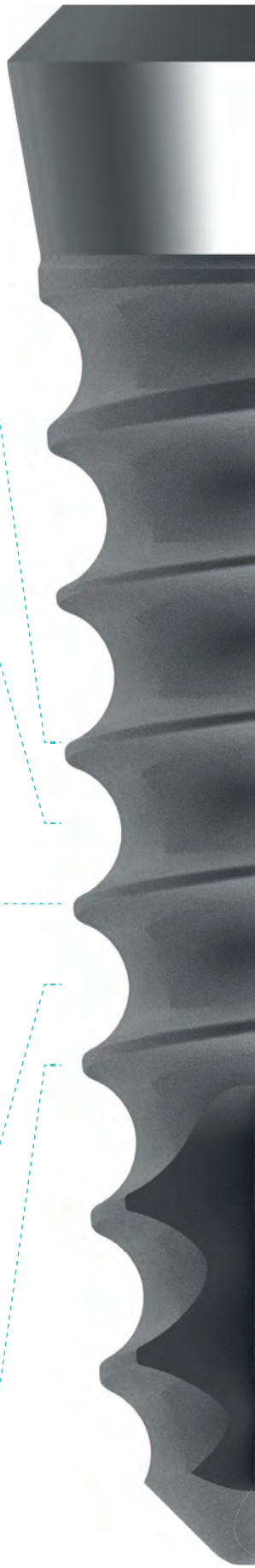
OF THE ENDOSSEOUS DENTAL IMPLANT SYSTEMS **GIO, GCO** and **GIW**

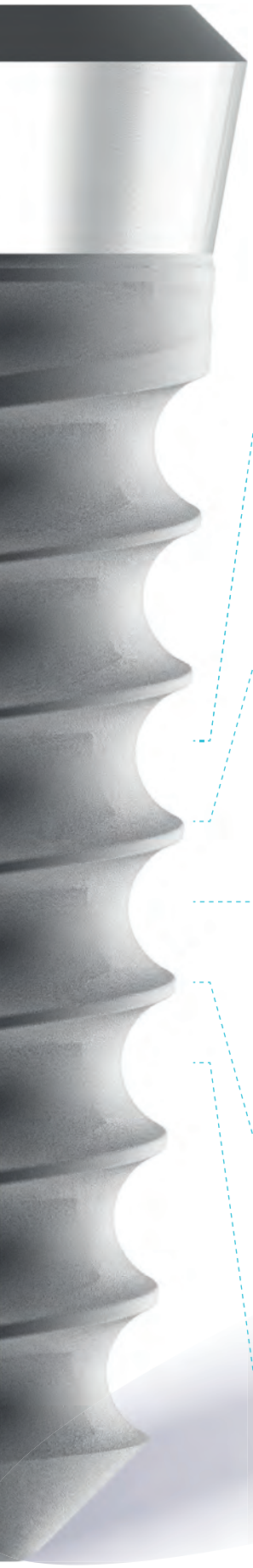
GIO, **GCO** and **GIW** implants consist of highly break-proof titanium alloy Ti6Al4V. **GIO** is a successful implant with octagon socket and 8° inner cone for rotationally-secured suprastructures. The surface is roughened in the endosseous region. **GCO** is a precision conical implant with octagon socket and 8° inner cone. Compression screw thread for stable endosseous anchorage. For rotationally-secured suprastructures. **GIW** implants with internal octagon and 8° inner cone are for anti-rotation super-structures.

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

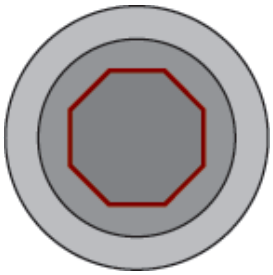
www.implant.com/en/downloads

- Secure rotation protection by precision inner octagon
- Tightness due to 8° inner cone
- Universal application for permanent and removable prosthodontics
- Made of highly resistant titanium alloy
- Smart instrument tray





Internal octagon



Wide range of sizes:

GIO

Enossal length	7 - 17 mm
Enossal Ø	3.3 - 4.8 mm

GCO

Enossal length	7 - 15 mm
Enossal Ø	3.7 - 4.8 mm

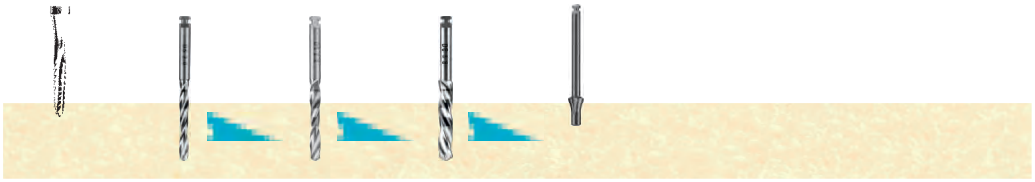
GIW

Enossal length	9 - 15 mm
Enossal Ø	4.8 mm

SURGERY

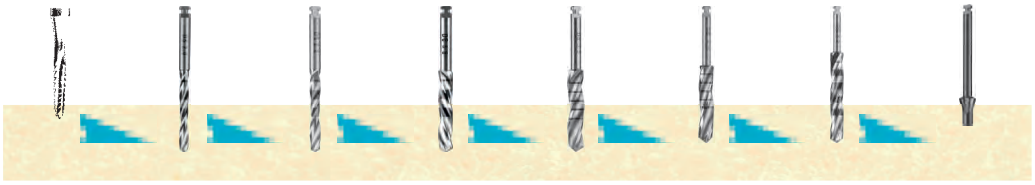
1.1a. Recommended drill sequences for **GIO** implants

GIO Ø 3.3 mm



GIO Ø 4.1 mm

GIO Ø 4.8 mm

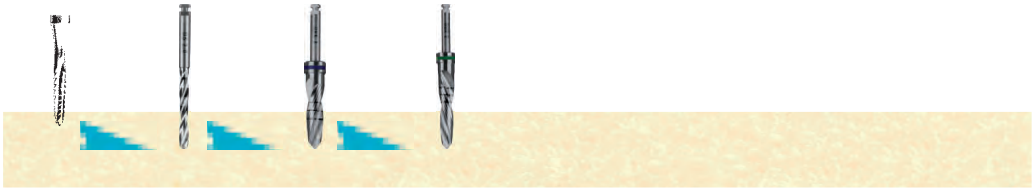


1.1b. Recommended drill sequences for **GCO** implants

GCO Ø 3.7 mm

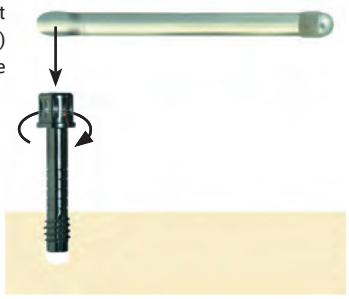
GCO Ø 4.1 mm

GCO Ø 4.8 mm



1.2 Tap for lower jaw (only for use with GIO)

Ratchet
(Position "IN")
Turn clockwise



TAP 1 Size 3.3 (for implants Ø 3.3 mm)
Size 4.1 (for implants Ø 4.1 mm)
Size 4.8 (for implants Ø 4.8 mm)

2. Implant packaging GIO/GCO

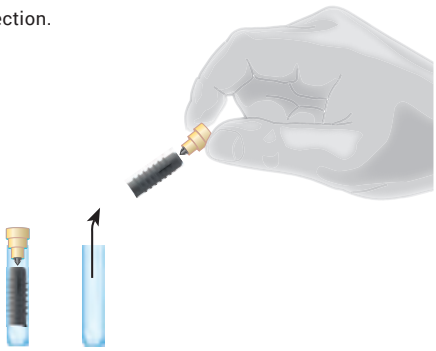
Original packaging

Open package using the flap. Remove the label and stick it into your patient's record.

The opened package contains the implant in a sterile tube (primary package).

3. Removing the implant from the sterile tube

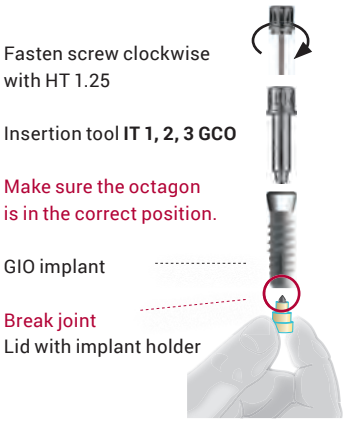
1. Open the lid. The implant is connected to the lid through a breakable section.
2. Remove the implant without touching the inner walls of the tube.

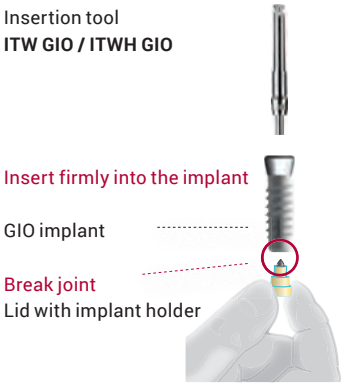


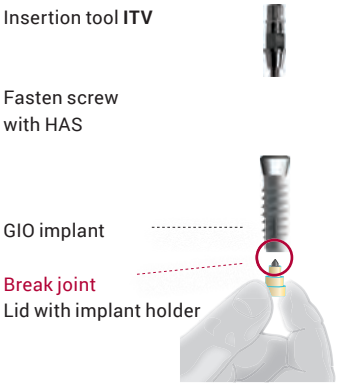
4. Handling

Assembling the placement aid

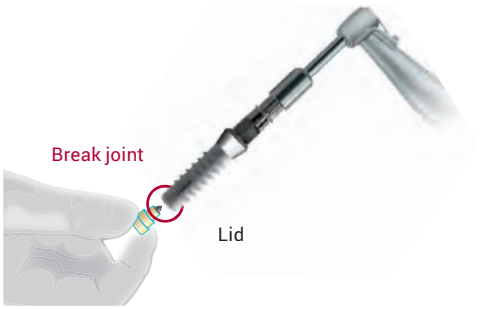
Attach the insertion tool to the implant (GIO or GCO) by holding the Lid, to which the implant is secured, with your other hand.







After you have attached the insertion tool, firmly hold the lid in your hand and break the implant off the lid. Insert the implant manually until it fits tightly into the jaw.



5. Insertion

Using the ratchet or contra-angle handpiece: screw the implant clockwise into the bone cavity.
The endosseous part of the implant must be **completely** covered by the bone. The polished implant neck is located partially outside of the bone or at bone level. We recommend to screw min. 1 mm of the polished implant neck inside of the bone.

Ratchet in position "IN"

contra-angle handpiece with Insertion tool ITW(H) GIO

contra-angle handpiece

Adapter

6. Remove insertion tool from implant

Release of the insertion tool or the contra-angle handpiece from the implant:

Using HT 1.25 loosen the screw in the insertion tool while loading the insertion tool IT GCO in insertion direction with the ratchet.

Pull insertion tool off the implant and separate from the contra-angle hand piece.

Attach IT ITV Ratchet adapter with RAT2 ratchet to the ITV insertion tool. Using the HAS flat wrench firmly hold the lower hexagon of the ITV. Remove the ITV from the implant using the ratchet ("Out" position).

IT ITV and ratchet in "OUT" position for loosening.

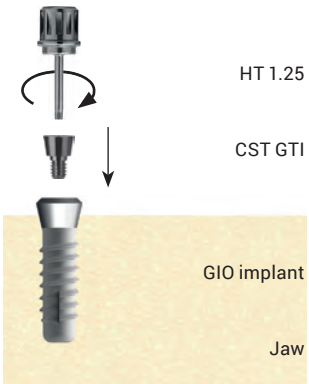
ITV: Use for securing

6. Result

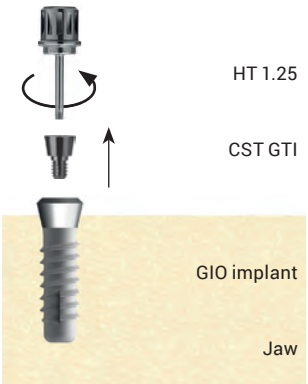
The implant is fully inserted and ready for healing.

8. Post-operative treatment

Close the implant with a cover screw CST GTI (tool: HT 1.25)



After the healing period: Remove cover screw

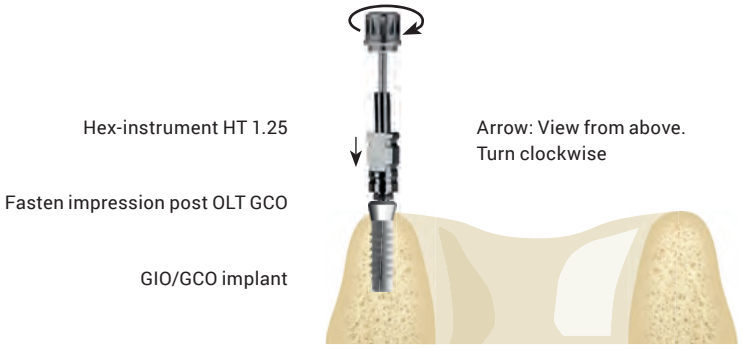


9. Impression taking

9.1 Impression taking with perforated, individual impression tray

The long pick up screw must be clearly visible, when the impression try is inserted over the impression post.

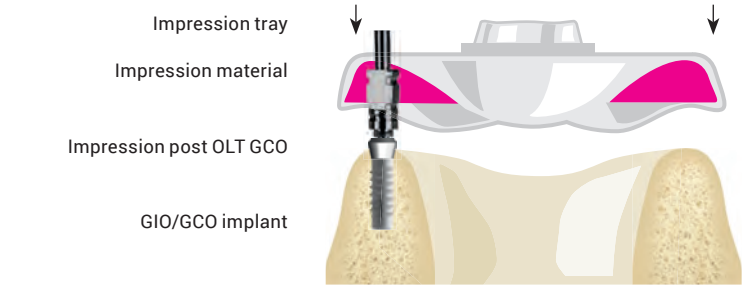
The impression material must be removed in the area of the screw access prior to hardening.



9.2 Prior to impression taking

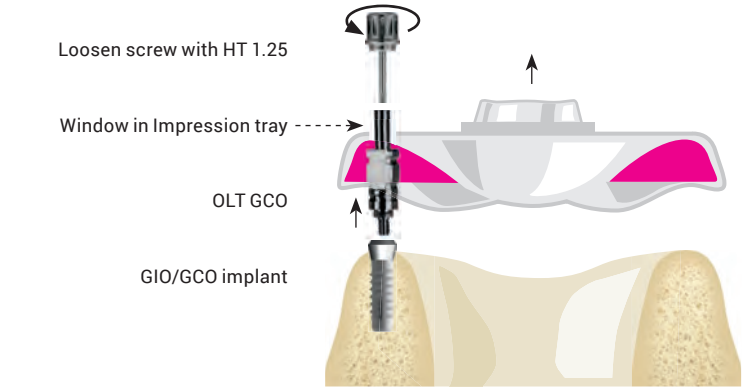
Impression taking with an A silicone® such as Safeprint®.

The use of open or closed impression trys is possible.



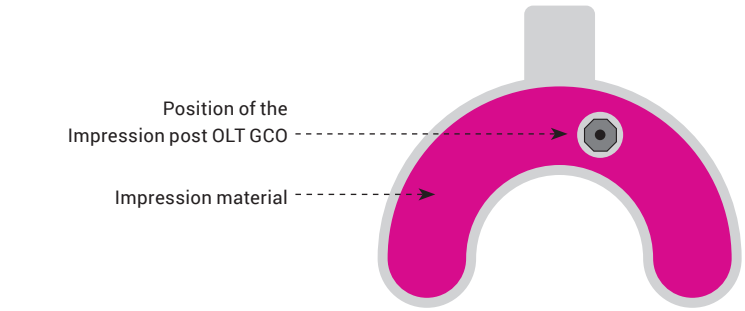
9.3 Impression taking

Remove OLT GCO from the implant. OLT GCO remains in the impression.



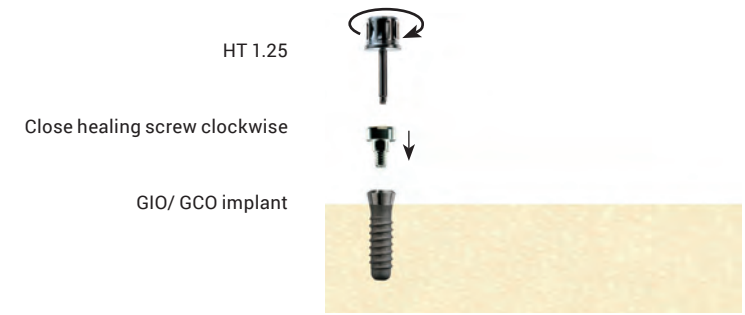
9.4

View of the impression post OLT GCO in the impression (Pick up method)



9.5

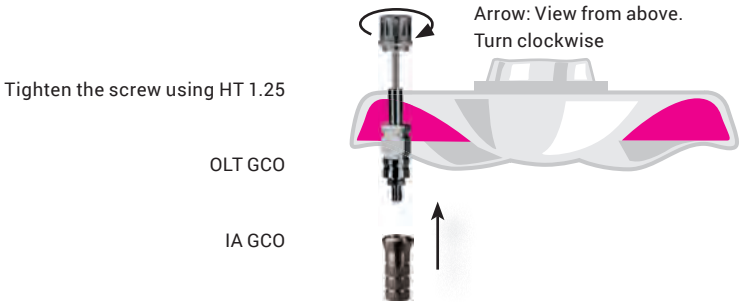
After the impression is taken, the implant is closed with a healing screw (HS) and the impression is sent to the laboratory.



10. Further processing in the laboratory

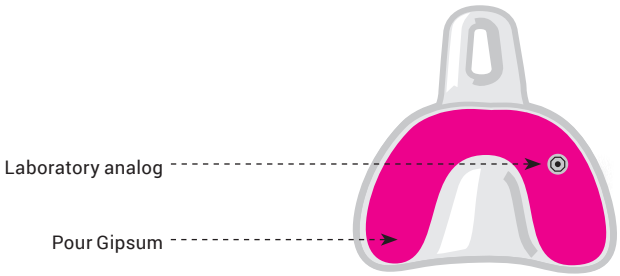
10.1

Screw IA GCO against the impression post.



10.2

The impression is casted . Then the transfer OLT GCO is unscrewed from the laboratory analogue IA GCO.



10.3

The laboratory analogue is now in the proper position and orientation in the putty.

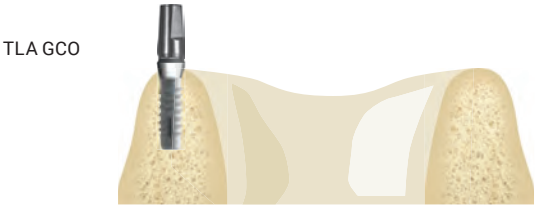
10.4

Positioning the solid secondary part TLA GCO (straight) or angulated TLA15 GCO, TLA20 GCO or TLA25 GCO, at which the optimal position and adequate angulation must be determined.

Note
The octagon must be completely entered into the analogue. Ensure correct position of the octagon.

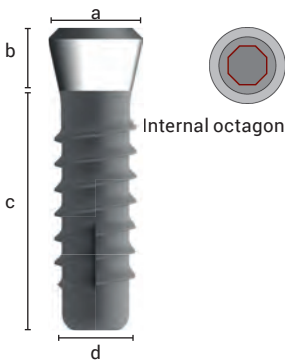
10.5

Ensure proper position of the abutment when transferring into the mouth.Tightening torque of the screw during fastening on the implant with: 25 Ncm.



GIO IMPLANTS

Successful implant with octagon socket and 8° inner cone. Connection type: Inner cone + internal octagon / head-Ø: 4.8 mm. Made from titanium alloy ASTM F 136-13/ISO 5832- 3. For rotationally-secured supra-structures. Surface is roughened in endosseous region.



a) Head Ø	4.8 mm
b) Aesthetic head	1.8 mm
c) Enossal length	7 - 17 mm
d) Enossal Ø	3.3 / 4.1 / 4.8 mm

Description	Enossal Ø	Enossal length	REF	Price cat.
GIO 3.3 9	3.3 mm	9 mm	**BM4010**	**F**
GIO 3.3 11	3.3 mm	11 mm	**BM4011**	**F**
GIO 3.3 13	3.3 mm	13 mm	**BM4012**	**F**
GIO 3.3 15	3.3 mm	15 mm	**BM4013**	**F**
GIO 4.1 7	4.1 mm	7 mm	**BM4014**	**F**
GIO 4.1 9	4.1 mm	9 mm	**BM4015**	**F**
GIO 4.1 11	4.1 mm	11 mm	**BM4016**	**F**
GIO 4.1 13	4.1 mm	13 mm	**BM4017**	**F**
GIO 4.1 15	4.1 mm	15 mm	**BM4018**	**F**
GIO 4.1 17	4.1 mm	17 mm	**BM4019**	**F**
GIO 4.8 7	4.8 mm	7 mm	**BM4020**	**F**
GIO 4.8 9	4.8 mm	9 mm	**BM4021**	**F**
GIO 4.8 11	4.8 mm	11 mm	**BM4022**	**F**
GIO 4.8 13	4.8 mm	13 mm	**BM4023**	**F**

Delivery incl. surgical screw CST GTI

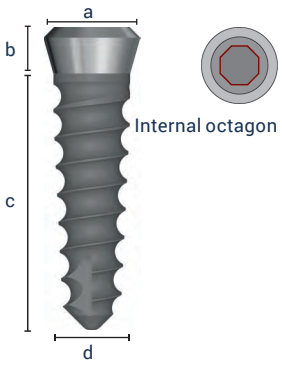
NOTE IN CONTRAINDICATIONS implants made from c.p. titanium are in general less force resistant compared to those made from titanium alloy. implants having a nominal diameter of less than 3.8 mm are not indicated for single tooth replacement, independently if they are made from c.p. titanium or from titanium alloy. implants Typ GCO 3.7 and GIO 3.3 should be used as supporting implants.

GCO 3.7 mm and GIO 3.3 mm implants may not be used in the molar region and not as single tooth implants with off axis load. GCO 3.7 mm and GIO 3.3 mm implants are used as supporting implants, for example to increase the number of abutments in immediate load situation. Never use GCO 3.7 mm and GIO 3.3 mm implants when cantilevers are involved. GCO 3.7 and GIO 3.3 are not for single tooth replacement.

Note the following contra-indications:
GCO 3.7, GIO 3.3: Do not use in areas where off-axis load is present. Do not use in areas with strong chewing forces. Do not use in flexion areas of the jaws.

GCO IMPLANTS

Precision conical implant with octagon socket and 8° inner cone. Octagonal system. Connection type: Inner cone + internal octagon / head-Ø: 4.8 mm. Strengthened titanium alloy (Ti6Al4V) according to ASTM F 136/ISO 5832-3 or Ti6 Al7 Nb. Compression screw thread and internal cone 8° for stable endosseous anchorage



a) Head Ø	4.8 mm
b) Aesthetic head	1.8 mm
c) Enossal length	7 - 15 mm
d) Enossal Ø	3.7 / 4.1 / 4.8 mm

Description	Enossal Ø	Enossal length	REF	Price cat.
GCO 3.7 9	3.7 mm	9 mm	**BM6510**	**F**
GCO 3.7 11	3.7 mm	11 mm	**BM6511**	**F**
GCO 3.7 13	3.7 mm	13 mm	**BM6512**	**F**
GCO 3.7 15	3.7 mm	15 mm	**BM6513**	**F**
GCO 4.1 7	4.1 mm	7 mm	**BM6514**	**F**
GCO 4.1 9	4.1 mm	9 mm	**BM6515**	**F**
GCO 4.1 11	4.1 mm	11 mm	**BM6516**	**F**
GCO 4.1 13	4.1 mm	13 mm	**BM6517**	**F**
GCO 4.1 15	4.1 mm	15 mm	**BM6518**	**F**
GCO 4.8 9	4.8 mm	9 mm	**BM6524**	**F**
GCO 4.8 11	4.8 mm	11 mm	**BM6525**	**F**
GCO 4.8 13	4.8 mm	13 mm	**BM6526**	**F**
GCO 4.8 15	4.8 mm	15 mm	**BM6527**	**F**

Delivery incl. surgical screw CST STI

SURGICAL ACCESSORIES FOR **GIO, GCO**

	Description		Code	REF	Price cat.
	Cover screw. Tighten with **HT 1.25**		**CST GTI**	**BM6554**	**A**
	Gingivaformer Tighten with **HT 1.25**	For 2 mm gingival height, cylindrical	**HS2 GTI**	**BM6549**	**B**
		For 4 mm gingival height, cylindrical	**HS4 GTI**	**BM6550**	**B**
		For 5 mm gingival height, anatomical	**HS5 GTI**	**BM6551**	**B**

TEMPBASE® **ABUTMENTS** FOR PROVISIONAL RESTORATIONS

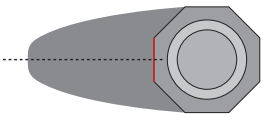
Temporary basis for GIO® and GCO®. With anti-rotation, PEEK, individually grindable. For cemented crowns and bridges. Tighten with **HT 1.25**.

TempBase® for GIO, GCO, 2 mm gingival height, incl. screw	**TPB 2 GIO**	**BM6547**	**D**
TempBase® for GIO, GCO, 4 mm gingival height, incl. screw	**TPB 4 GIO**	**BM6548**	**D**

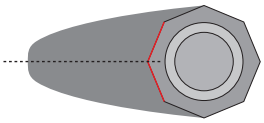
ABUTMENTS FOR CEMENTED PROSTHETICS FOR **GIO, GCO**

With octagon. Anti-rotation, screw-in abutment with pre-assembled screw for cemented crowns or bridges.. Tighten with **TT 1.25**.

Description	Code	REF	Price cat.
Straight abutment, 6 mm height above implant	**TLA GCO**	**BM4042**	**D**
15° angled. The angulation runs axial **above the edge** of the octagon	**TLA15 GCO**	**BM4040**	**E**
15° angled. The angulation runs axial **above the area** of the octagon Metalic-yellow	**TLA15F GCO**	**BM4050**	**E**
20° angled. The angulation runs axial **above the edge** of the octagon	**TLA20 GCO**	**BM3177**	**E**
25° angled. The angulation runs axial **above the edge** of the octagon	**TLA25 GCO**	**BM4041**	**E**
25° angled. Die angulation runs axial **above the area** of the octagon Metalic-yellow	**TLA25F GCO**	**BM4069**	**E**



Angulation above area (Metalic-yellow abutment)



Angulation above edge (Metalic abutment)

There are 16 possible abutment positions

Description	Impression post With Pick-Up screw	Lab analogue Inner octagon	Synthetic base Castable 7.4 mm high For TLA GCO	Synthetic base Castable 4 mm high For TLA15 GCO	Synthetic base Castable 4 mm high For TLA20 GCO	Synthetic base Castable 4 mm high For TLA25 GCO
Code	**OLT GCO**	**IA GCO**	**PS**	**PS 15**	**PS 20**	**PS 25**
REF	**BM6571**	**BM6572**	**BM6575**	**BM6576**	**BM6577**	**BM6578**
Price cat.	**B**	**B**	**A**	**A**	**A**	**A**

	Description	Unit	Code	REF	Price cat.
	Replacement screw for OLT GCO, long	1 piece	**SF 767**	**BM6661**	**B**
ALTERNATIVE	Screw SF OLT, short, 14.5 mm for OLT GCO	1 piece	**SF OLT**	**BM6579**	**B**

With cone (without anti-rotation). One piece abumtent with solid thread.

Description	Code	REF	Price cat.
One-piece abutment with solid thread, for cemented crowns or bridges, height above implant 6.0 mm, 8° incline. Can be shortened or trimmed. Flat on one side. Direct impression or transfer to lab analogue IA STI. Tighten with **HT 1.25**.	**TCA GTI**	**BM6594**	**D**

Description	Impression post 9 mm high	Impression post 13 mm high	Lab analogue With conus	Plastic base, Castable, 7.4 mm
Code	**TS GTI**	**TSX GTI**	**IA GTI**	**PS**
REF	**BM6599**	**BM6600**	**BM6601**	**BM6575**
Price cat.	**B**	**B**	**B**	**A**

SOLID ABUTMENTS

Description	Height above implant	Colour	Code	REF	Price cat.
Flat on one side for increased rotation stability, 6° Incline Tighten with **IT TCA**	4 mm	yellow	**SA4 GTI**	**BM6617**	**C**
	5.5 mm	grey	**SA5 GTI**	**BM6618**	**C**
	7 mm	blue	**SA7 GTI**	**BM4044**	**C**

Tightening torque 30 Ncm. For the impression taking on the abutment use:

Description	Colour coded transfer post for SA-abutments	Abutment analogue	Castable abutment 10 mm high, reducible	Gingiva retractor, Pack of 4
	Use with **REF 460230**	Use with TZ SA4, 5, 7	Anti-rotation (PA SA) Internally round (PA SR)	Use instead of retraction cord
Code	**TZ SA4, 5, 7**	**AA SA4, 5, 7**	**PA SA/ PA SR**	
REF	**BM6620, BM6621, BM6622**	**BM6623, BM6624, BM6625**	**BM6626, BM6627**	**BM1319**
Price cat.	**A**	**B**	**A**	**B**

With cone (without anti-rotation). Single-piece abutments with fixed thread and vertical cement escape grooves.

Description	Height above implant	Colour	Code	REF	Price cat.
6° incline Tighten with **IT TCA**	4 mm	yellow	**TCA4 GTI**	**BM6628**	**C**
	5.5 mm	grey	**TCA5 GTI**	**BM6629**	**C**
	7 mm	blue	**TCA7 GTI**	**BM6630**	**C**

Tightening torque 30 Ncm. The impression taking is carried out on the abutment directly.

Description	Abutment analogue Use with TCA 4	Abutment analogue Use with TCA 5	Abutment analogue Use with TCA 7	Castable abutment 10 mm high Reducible, white
Code	**AA TCA 4**	**AA TCA 5**	**AA TCA 7**	**PA TCA**
REF	**BM1101**	**BM1102**	**BM1321**	**BM4030**
Price cat.	**B**	**B**	**B**	**A**

ABUTMENTS FOR **SCREW-IN PROSTHETICS**

With outer octagon and octagon — **OSA GCO** | **BM6580** | **E**

Abutment with double threaded screw and octagon for crowns, bridges and bases. Anti-rotation anchorage of the prosthetics and to the implant. Height above implant 1.5 mm. Tighten with **HT 1.25**

With outer octagon and conus — **OSA GTI** | **BM6650** | **D**

Singel piece, octagonal screw-in abutment for anti-rotational anchorage of the prosthetics. For crowns, bridges and bar connectors. Impression taking must be taken on the abutment. Height above implant 1.5 mm.
Tighten with **HT 1.77** / **HTX 1.77.** Tightening torque **30-35 Ncm**

Description	Transfer post For OSA GCO/STI	Screw For anchorage of TST GTI	Lab analogue For OSA GCO/STI	Castable abutment 10 mm high, pack of 5		Screw for fixation
				Internally edged	Internally round	
Code	**TST GTI**	**SF 365**	**OA GTI**	**PAOA**	**PAOR**	**SF 350** or **SF 365**
REF	**BM6581**	**BM6582**	**BM6584**	**BM6586**	**BM6587**	**BM6588** or **BM6582**
Price cat.	**B**	**B**	**B**	**B**	**B**	**B**

PROTECTION CAP FOR OSA STO AND OSA STI

Description	Unit	Code	REF	Price cat.
Protection cap made of plastic, white Screwable and reducible For OSA GCO or OSA GTI, 3 mm high	Pack of 5	**CGCO**	**BM6636**	**B**

BAR COMPONENTS

Description	REF	Price cat.
Bar coping made of CoCrMo for all S-implants Height above implant 5.5 mm Screw directly onto implant with SF 350 or SF 365	**SK C GTI**	**C**
Bar sleeve made of POM, castable, large 3.0 mm high, 2.2 mm wide, 55 mm long	**PA SP1**	**C**
Titanium bar matrix for PA SP1, 55 mm long	**SP6**	**C**

CONICAL CROWNS AND **BRIDGES**

Description	REF	Price cat.
Bur cylinder for bridges (internally round), height above implant 8 mm, 6 mm Ø Screw onto OSA GTI or OSA GCO with screw SF 350	**KKR**	**B**
Bur cylinder for crowns (internal octagon), height above implant 5 mm, 7 mm Ø Screw onto OSA GTI or OSA GCO with screw SF 350	**FZ 5**	**B**
Bur cylinder for crowns (internal octagon), height above implant 7 mm, 7 mm Ø Screw onto OSA GTI or OSA GCO with screw SF 350	**FZ 7**	**B**

TITANIUM BASE FOR CAD CAM

Titanium base for GIO and GCO. Material Ti6Al4V, anti-rotation. Tighten with **TT 1.25**.

Description	Code	REF	Price cat.
Height 3.9 mm above implant shoulder Incl. screw SF N62	**MB4 GIO**	**BM7759**	**D**

RETENTIVE BALL ABUTMENTS

	Description	Code	REF	Price cat.
	Ball abutment fits all nylon caps Head Ø 2.5 mm, height above implant 3 mm Tighten with **HT 1.25**	**TB GTI**	**BM6653**	**D**
	Ball abutment fits zu nylon caps Head Ø 2.5 mm, height above implant 3.6 mm Tighten with **Tool E** (alternatively with **HAS 2**)	**TB3 GTI**	**BM6655**	**D**

Impression taking with transfer post | **Direct impression taking**

Description	Lab analogue	Transfer post Tighten with **HT 1.25**	Ball analog
Code	**IA GTI**	**TS GTI**	**IAB**
REF	**BM6601**	**BM6599**	**BM7763**
Price cat.	**B**	**B**	**C**

ACCESSORIES FOR BALLHEAD ABUTMENTS

	Description		Unit	Code	REF	Price cat.
	Nylon cap transparent, **Pull-off force** ca. 1200g (EXTERNAL PRODUCT)		Pack of 2	**NC**	**BM1325**	**A1**
	Nylon cap pink, **Pull-off force** ca. 800g (EXTERNAL PRODUCT)		Pack of 2	**NC 1**	**BM1326**	**A1**
	Nylon cap yellow, **Pull-off force** ca. 500g (EXTERNAL PRODUCT)		Pack of 2	**NC 2**	**BM1327**	**A1**
	Green, strong	Nylon caps R-NC With increased friction strength Only with reduced diameter ball ≤ 2.3 mm (EXTERNAL PRODUCT)	Pack of 2	**R-NC**	**BM3090**	**A1**
	Pink, medium		Pack of 2	**R-NC 1**	**BM3089**	**A1**
	Orange, soft		Pack of 2	**R-NC 2**	**BM3088**	**A1**
	Metal sleeve for all nylon caps (EXTERNAL PRODUCT)			**H**	**BM1329**	**B**

RETENTIVE BALL ABUTMENTS

Description	Code	REF	Price cat.
Ball abutment fits gold cap GC Head Ø 2.3 mm, height above implant 3.4 mm Tighten with **Tool E** (alternatively with **HAS 2**)	**TB2 GTI**	**BM6654**	**D**

Impression taking with transfer post **Direct impression taking**

Description	Lab analogue with conus	Transfer post Tighten with **HT 1.25**	Ball analog	Gold cap
Code	**IA GTI**	**TS GTI**	**IAB 2**	**GC**
REF	**BM6601**	**BM6599**	**BM7771**	**BM1106**
Price cat.	**B**	**B**	**C**	**upon request**

LOCALICER®

Abutment for removable prosthetics. We recommend a minimum of six implants per jaw and the use of a single denture as splint when using LOC abutments. Tighten with **HT 1.77**.

Description	Height	REF	Price cat.
LOC S 2.5	2.5 mm	**BM6592**	**D**
LOC S 4	4.0 mm	**BM6593**	**D**

ACCESSORIES FOR LOCALICER®

Description	Code	REF	Price cat.
Analogue + impression set	**AA LOC**	**BM3142**	**C**
Set with 5 caps + 1 housing (EXTERNAL PRODUCT)	**NCS**	**BM3143**	**D**

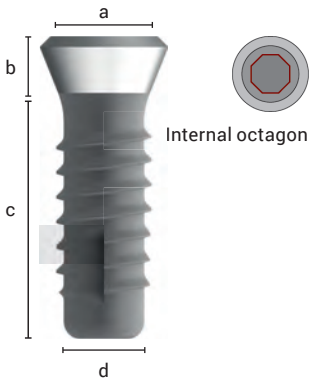
Pull-off force
Yellow 600 g, Pink 1.200 g, Transparent 1.800 g, Violet 2.700 g
Black has no retention and is designed for temporary solutions for up to one month

GIW IMPLANTS

OCTAGONAL SYSTEM

Implant with internal octagon and 8° internal cone. For anti-rotation superstructures. Highly fracture resistant titanium alloy (Ti6Al4V) according to ASTM F 136 / ISO 5832-3.

These implants with a head diameter of 6.5 mm can be used, if adequate bone is available, for posterior single crowns with the width of one premolar in dentate and partially/fully edentulous ridges as for superstructures retained by bars and ball attachments.



Description	Enossal Ø	Enossal length	REF	Price cat.
GIW 4.8 9	4.8 mm	9 mm	**BM4049**	**F**
GIW 4.8 11	4.8 mm	11 mm	**BM4045**	**F**
GIW 4.8 13	4.8 mm	13 mm	**BM4046**	**F**

a) Head Ø	6.5 mm
b) Aesthetic head	1.8 mm
c) Enossal length	9 - 13 mm
d) Enossal Ø	4.8 mm

Delivery incl. surgical screw CST GIW

SURGICAL ACCESSORIES FOR **GIW**

Description		Code	REF	Price cat.
Cover screw. Tighten with **HT 1.25**		**CST GIW**	**BM4051**	**B**
Gingivaformer Tighten with **HT 1.25**	For 2 mm gingival height Cylindrical	**HS2 GIW**	**BM4052**	**B**
	For 4 mm gingival height Cylindrical	**HS4 GIW**	**BM4053**	**B**

TITANIUM BASE FOR CAD CAM

Description	Code	REF	Price cat.
Titanium base for GIW, Material Ti6Al4V, anti-rotation. Height 3.9 mm above implant shoulder. Incl. screw SF N62 Tighten with **TT 1.25**	**MB4 GIW**	**BM7762**	**D**

ABUTMENTS FOR **CEMENTED PROSTHETICS** FOR **GIW**

Anti-rotation screw- in abutment incl. screw, for cemented crowns and bridges. Tighten with **TT 1.25**

Description	Code	REF	Price cat.
Straight abutment	**TLA GIW**	**BM4054**	**D**
15° angled abutment The 15° line angle runs axially across the edge of the octagon	**TLA15 GIW**	**BM4055**	**E**

Description	Impression post with Pick-Up screw Tighten with **HT 1.25**	Lab analogue	Plastic base Castable For **TLA GIW**	Plastic base Castable For **TLA15 GIW**
Code	**OLT GIW**	**IA GIW**	**PA GIW**	**PA15 GIW**
REF	**BM4056**	**BM4057**	**BM4059**	**BM4060**
Price cat.	**B**	**B**	**A**	**A**

	Description	Code	REF	Price cat.
	Replacement screw for TLAs of all S-implants	**SF TLA**	**BM6598**	**B**
	Replacement screw for impression post OLT GIW	**SF 767**	**BM6661**	**B**
ALTERNATIVE	Screw SF OLT, short, 14.5 mm for OLT GIW	**SF OLT**	**BM6579**	**B**

SOLID ABUTMENTS

Description	Height above implant	Code	REF	Price cat.
Flattened on one side for increased rotational stability 6° angled Tighten with **HT 1.77**	4 mm	**SA4 GIW**	**BM4061**	**C**
	6 mm	**SA6 GIW**	**BM4062**	**C**

Description	Transfer post for SA6 abutment	Abutment analogue Brown anodized For **TZ SA6 GIW**	Plastic base Castable
Code	**TZ SA6 GIW**	**AA SA6 GIW**	**PA GIW**
REF	**BM4063**	**BM4064**	**BM4059**
Price cat.	**A**	**B**	**A**

RETENTIVE BALL ATTACHMENTS

	Description	Code	REF	Price cat.
	Ball abutment, fits all nylon caps Head Ø 2.5 mm Height above implantat 3 mm Tighten with **HT 1.25**	**TB GIW**	**BM4068**	**D**
	Ball abutment, fits all nylon caps Head Ø 2.5 mm Height above implantat 3.45 mm Tighten with **Tool E** (alternatively with **HAS 2**)	**TB3 GIW**	**BM4066**	**D**

Impression taking with transfer post | **Direct impression taking**

Description	Lab analogue with conus	Transfer post Tighten with **HT 1.25**	Ball analog
Code	**IA GIW**	**TS GIW**	**IAB**
REF	**BM4057**	**BM4065**	**BM7763**
Price cat.	**B**	**B**	**C**

ACCESSORIES FOR BALLHEAD ABUTMENTS

	Description		Unit	Code	REF	Price cat.
	Nylon cap transparent, **Pull-off force** ca. 1200g (EXTERNAL PRODUCT)		Pack of 2	**NC**	**BM1325**	**A1**
	Nylon cap pink, **Pull-off force** ca. 800g (EXTERNAL PRODUCT)		Pack of 2	**NC 1**	**BM1326**	**A1**
	Nylon cap yellow, **Pull-off force** ca. 500g (EXTERNAL PRODUCT)		Pack of 2	**NC 2**	**BM1327**	**A1**
	Green, strong	Nylon caps R-NC With increased friction strength Only with reduced diameter ball ≤ 2.3 mm (EXTERNAL PRODUCT)	Pack of 2	**R-NC**	**BM3090**	**A1**
	Pink, medium		Pack of 2	**R-NC 1**	**BM3089**	**A1**
	Orange, soft		Pack of 2	**R-NC 2**	**BM3088**	**A1**
	Metal sleeve for all nylon caps (EXTERNAL PRODUCT)			**H**	**BM1329**	**B**

DRILL SEQUENCES CYLINDRICAL IMPLANTS

Implants	Enossal Ø	recommended drill sequences
 **GIO**	3.3 mm	DS 2 BM1359 → DS 2.2 BM1405 → DS 2.8 BM1404 → DRA 3.3 CS BM1378 DSL 2 BM6555 → DSL 2.2 BM6556 → DSL 2.8 BM6557 → DRA 3.3 CS BM1378
 **GIO**	4.1 mm	DS 2 BM1359 → DS 2.2 BM1405 → DS 2.8 BM1404 → DS 3.5 BM1375 → DRA 4.1 CS BM1379 DSL 2 BM6555 → DSL 2.2 BM6556 → DSL 2.8 BM6557 → (DLS 3.5) (BM6559) → DRA 4.1 CS BM1379
 **GIO**	4.8 mm	DS 2 BM1359 → DS 2.2 BM1405 → DS 2.8 BM1404 → DS 3.5 BM1375 → DS 4.0 BM1376 → (DS 4.2) (BM1377) → DRA 4.1 CS BM1379 DSL 2 BM6555 → DSL 2.2 BM6556 → DSL 2.8 BM6557 → DLS 3.5 BM6559 → DSL 4.0 BM6560 → (DSL 4.2) (BM6561) → DRA 4.1 CS BM1379
 **GIW**	4.8 mm	DS 2 BM1359 → DS 2.2 BM1405 → DS 2.8 BM1404 → DS 3.5 BM1375 → DS 4.0 BM1376 → (DSL 4.2) (BM6561) → DRA 4.8 CSW BM6568 DSL 2 BM6555 → DSL 2.2 BM6556 → DSL 2.8 BM6557 → DSL 3.5 BM6559 → DSL 4.0 BM6560 → (DSL 4.2) (BM6561) → DRA 4.8 CSW BM6568

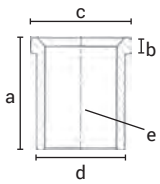
DRILL SEQUENCES CONICAL IMPLANTS

Implants	Enossal Ø	Length in mm	recommended drill sequences
 **GCO**	3.7 mm	9 / 11 / 13	DS 2 BM1359 → DS 2.2 BM1405 → DRK 1 BM6562 → DRA 3.3 CS BM1378 DSL 2 BM6555 → DSL 2.2 BM6556 → DRK 1 BM6562 → DRA 3.3 CS BM1378
		15	DS 2 BM1359 → DS 2.2 BM1405 → DRK 2 BM6563 → DRA 3.3 CS BM1378 DSL 2 BM6555 → DSL 2.2 BM6556 → DRK 2 BM6563 → DRA 3.3 CS BM1378
 **GCO**	4.1 mm	7 / 9 / 11 / 13	DS 2 BM1359 → DS 2.2 BM1405 → DRK 3 BM6564 → DRA 4.1 CS BM1379 DSL 2 BM6555 → DSL 2.2 BM6556 → DRK 3 BM6564 → DRA 4.1 CS BM1379
		15	DS 2 BM1359 → DS 2.2 BM1405 → DRK 2 BM6563 → DRA 4.1 CS BM1379 DSL 2 BM6555 → DSL 2.2 BM6556 → DRK 2 BM6563 → DRA 4.1 CS BM1379
 **GCO**	4.8 mm	7 / 9 / 11	DS 2 BM1359 → DS 2.2 BM1405 → DRK 4 BM6565 → DRA 4.1 CS BM1379 DSL 2 BM6555 → DSL 2.2 BM6556 → DRK 4 BM6565 → DRA 4.1 CS BM1379
		13 / 15	DS 2 BM1359 → DS 2.2 BM1405 → DRK 5 BM6566 → DRA 4.1 CS BM1379 DSL 2 BM6555 → DSL 2.2 BM6556 → DRK 5 BM6566 → DRA 4.1 CS BM1379

PLEASE NOTE that GCO is by design a compression screw and a drill sequence can not be recommended for all bone qualities. In low density bone a smaller drill is recommended.

GUIDE JACKET

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



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

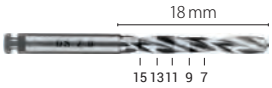
PATHFINDER DRILLS

Description	Type	Working length	REF	Price cat.
BCD 1	non sterile	15 mm	**BM2100**	**C**
BCDX 1	non sterile	15 mm	**BM2103**	**C**

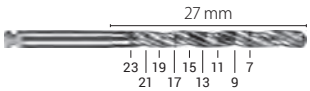
TWIST DRILL (EXTERNALLY IRRIGATED) FOR **GIO, GIW**

Surgical steel, laser marked. Non sterile. For lifetime extension and consistent cutting performance and easy removal of contaminated areas. Maximum speed with external cooling 700 rpm. Drills can be used without cooling at 50 rpm on green contra-angle handgrip.

These drills are made of premium material using state-of-the-art precision milling machines. The benefit for you and your patients: Extremely good and durable cutting performance due to sophisticated geometry of the blades.



Description	Length	Working length	Drill 0	REF	Price cat.
DS 2	32.5 mm	17 mm	2 mm	**BM1359**	**D**
DS 2.2	36.5 mm	18 mm	2.2 mm	**BM1405**	**D**
DS 2.8	36.5 mm	18 mm	2.8 mm	**BM1404**	**D**
DS 3.2	36.5 mm	18 mm	3.2 mm	**BM1403**	**D**
DS 3.5	36.5 mm	18 mm	3.5 mm	**BM1375**	**D**
DS 4.0	36.5 mm	18 mm	4.0 mm	**BM1376**	**D**
DS 4.2	36.5 mm	18 mm	4.2 mm	**BM1377**	**D**



DSL 2	45.5 mm	27 mm	2 mm	**BM6555**	**D**
DSL 2.2	45.5 mm	27 mm	2.2 mm	**BM6556**	**D**
DSL 2.8	45.5 mm	27 mm	2.8 mm	**BM6557**	**D**
DSL 3.2	45.5 mm	27 mm	3.2 mm	**BM6558**	**D**
DSL 3.5	45.5 mm	27 mm	3.5 mm	**BM6559**	**D**
DSL 4.0	45.5 mm	27 mm	4.0 mm	**BM6560**	**D**
DSL 4.2	45.5 mm	27 mm	4.2 mm	**BM6561**	**D**

-55% heat

HEATLESS® **DRILLS** DRK FOR GCO IMPLANTS

Form drills made from surgical steel (SS), length and color coded, resterilizable. Note the information in the **Instructions for Use** for hygiene and preparation requirements with medical products intended for multiple use in implantology. Pilot drilling using DS2, DSL2 or Pathfinder (see previous page).

Description	System	Colour	Length	Implantat Ø	REF	Price cat.
DRK 1	GCO	yellow	9, 11, 13 mm	3.7 mm	**BM6562**	**D**
DRK 2	GCO	black	15, 17, 19 mm	3.7 / 4.1 mm	**BM6563**	**D**
DRK 3	GCO	red	7, 9, 11, 13 mm	4.1 mm	**BM6564**	**D**
DRK 4	GCO	blue	7, 9, 11 mm	4.8 mm	**BM6565**	**D**
DRK 5	GCO	green	13, 15 mm	4.8 mm	**BM6566**	**D**
DRK 6	GCO	metallic	21, 23, 25 mm	3.7 / 4.1 mm	**BM6567**	**D**

IT HAS BEEN SCIENTIFICALLY PROVEN

Heatless® drills by Dr. Ihde Dental generate 55 % less heat than traditional bone drills from other manufacturers. This makes it possible to use higher rotational speeds: between 3,000 and 5,000 rpm are recommended with good external cooling and intermittent drill technique.

COUNTERSINK HEADS

Description	System	Type	Implantat Ø	REF	Price cat.
DRA 3.3 CS	GIO	non sterile	3.3 mm	**BM1378**	**D**
DRA 4.1 CS	GIO, GCO	non sterile	4.1 mm	**BM1379**	**D**
DRA 4.8 CSW	GIW	non sterile	4.8 mm	**BM6568**	**D**

TAP (MADE OF CRONIDUR) FOR **GIO, GIW**

Description	Finish	Length	Implantat Ø	REF	Price cat.
TAP1 3.3	9-17 mm	34 mm	3.3 mm	**BM1381**	**D**
TAP1 4.1	9-17 mm	34 mm	4.1 mm	**BM1382**	**D**
TAP1 4.8	9-17 mm	30 mm	4.8 mm	**BM1383**	**D**
TAP2 3.3	9-17 mm	23 mm	3.3 mm	**BM6569**	**D**
TAP2 4.1	9-17 mm	23 mm	4.1 mm	**BM6570**	**D**

DRILLSTOP TRAY

Autoclaveable up to 134° C, not suitable for dry heat sterilizers.

Depth	Drillstop	
	DS	DSL
7	K	O
9	H	N
11	F	M
13	C	L
15	A	K
17		H
19		F
21		C
23		A

Description	REF	Price €
Drillstop A	**BM1500**	
Drillstop C	**BM1502**	
Drillstop F	**BM1505**	
Drillstop H	**BM1507**	
Drillstop K	**BM1510**	
Drillstop L	**BM1511**	
Drillstop M	**BM1512**	
Drillstop N	**BM1513**	
Drillstop O	**BM1514**	
Drill DS 2.8	**BM1404**	
Drill DS 3.2	**BM1403**	
Drill DS 3.5	**BM1375**	
Drill DS 4.0	**BM1376**	
Drill DS 4.2	**BM1377**	
Drill DSL 2.8	**BM6557**	
Drill DSL 3.2	**BM6558**	
Drill DSL 3.5	**BM6559**	
Drill DSL 4.0	**BM6560**	
Drill DSL 4.2	**BM6561**	
Tray with content	**BM6677**	**779.00**

INSERTION TOOLS FOR **GIO, GCO, GIW**

	Description	Type	Length	Index	For	REF	Price cat.
	IT1 GCO	long	20 mm	HT 1.25		**BM1384**	**K**
	IT2 GCO	short	12 mm	HT 1.25		**BM1385**	**K**
	IT3 GCO	medium	16 mm	HT 1.25		**BM1386**	**K**
	ITW GIO	contra-angle	23 mm			**BM1389**	**F**
	ITWH GIO	contra-angle / hex	23 mm			**BM1391**	**F**
	This instrument is with an additional hex for force transmission to the contra-angle handpiece equipped. Fits to W&H contra-angle handpiece only.						
	ITV	short	11 mm		GIO, GCO	**BM1390**	**C**
	IT ITV	Ratchet adapter			Adapter for ITV	**BM1365**	**D**
	Adapter	short / contra-angle	22 mm		ITV 500850	**BM1366**	**D**
	Adapter	long / contra-angle	32 mm		ITV 500850	**BM1367**	**D**
	Adapter	medium / contra-angle	27 mm		ITV 500850	**BM1368**	**D**
	HAS	square	85 mm		ITV	**BM1373**	**H**
	IT TCA	long	20 mm	direct	SA GTI, TCA GTI	**BM1322**	**D**
	Tool E	long	20 mm	direct	TB2 GTI, TB3 GTI, TB3 GIW	**BM3336**	**D**

INSTRUMENTS FOR **SCREWS**

	Description	Type	Length	0	Code	REF	Price cat.
	Hex instrument	long	21 mm	1.25 mm	**HT 1.25**	**BM3022**	**C**
	Hex instrument	long, for contra-angle	26 mm	1.25 mm	**HT 1.25 M**	**BM3047**	**C**
	Hex instrument	short	14 mm	1.25 mm	**HTS 1.25**	**BM3023**	**C**
	Hex instrument	extralong	45 mm	1.25 mm	**HTX 1.25**	**BM7764**	**C**
	Hex instrument	long	19 mm	1.77 mm	**HT 1.77**	**BM3024**	**C**
	Hex instrument	extralong	45 mm	1.77 mm	**HTX 1.77**	**BM1070**	**C**
	Hex instrument	long, for contra-angle	28 mm	1.77 mm	**HT 1.77 M**	**BM3048**	**C**
	Torx-Instrument	for GIO, GCO and GIW abutments	21 mm	1.25 mm	**TT 1.25**	**BM3027**	**C**

TOOLS

	Description	Type	Code	REF	Price cat.
	Guide jacket	For pilot drill, Titanium 10 mm, 2.2 mm Ø. Pack of 5	**BFH**	**BM6537**	**B**
	X-ray measuring sphere	Surgical steel, Ø 5 mm Pack of 5	**RM**	**BM3006**	**A**
	Drill extension contra-angle	Extends by 19 mm	**DX2**	**BM1349**	**D**
	Punch	For contra-angle, 4.9 mm Ø	**PUW1**	**BM3002**	**C**
	Standardized probe	Scale 1 mm for radiographical measuring for cylindrical implant types, 22 mm	**PDG**	**BM1350**	**A**
	HAS	Flat spanner for ITV insertion tool, square-end, 85 mm	**HAS**	**BM1373**	**H**
	HAS 2	Flat spanner for ball attachments TB2 GTI, TB3 GTI and TB3 GIW, 85 mm	**HAS 2**	**BM1392**	**H**
	Ratchet	For all Hex instruments and insertion tools, without torque	**RAT 2**	**BM1352**	**K**
	Torque wrench	Torque wrench 10 - 70 Ncm for all insertion tools, hex- and torx instruments	**TW2**	**BM1356**	**S**
	Universal adapter	For all contra-angle instruments Use with ratchet RAT 2. Max. 30 Ncm	**UAW**	**BM3026**	**E**

STARTER TRAY

Autoclaveable up to 134° C, not suitable for dry heat sterilizers. This surgical kit contains all drills and tools for first works with the S-System.
Material: autoclavable plastic.

Description	Code	REF	Price €
Insertion tool for ratchet	IT3 GCO	**BM1386**	
Insertion tool for contra angle	ITWH GIO	**BM1391**	
Hex-instrument	HT 1.25	**BM3022**	
Torx instrument	TT 1.25	**BM3027**	
Pilot drill	BCD 1	**BM2100**	
Form drill	DS 2.2	**BM1405**	
Form drill	DS 2.8	**BM1404**	
Form drill	DS 3.5	**BM1375**	
Form drill	DS 4.2	**BM1377**	
Countersink head	DRA 4.1 CS	**BM1379**	
Standardized probe	PDG	**BM1350**	
Standardized probe	PDG	**BM1350**	
Torque wrench	TW2	**BM1356**	
Starter tray with content		**BM6501**	**upon request**
Starter tray w/o content		**SBM4009**	**upon request**

We are certified DIN EN ISO 13485, and annex II of EEC Directive 93/42 EWG (2007).
Due to technical reasons the product dimensions shown in this brochure might deviate from reality.
GIO, GCO and **GIW** are registered trademarks.
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 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

Secure rotation protection by precision inner octagon and internal cone 8°

Reliable insertion - ease of use

Universal application for permanentand removable prosthodontics

ONEWAY BIOMED

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