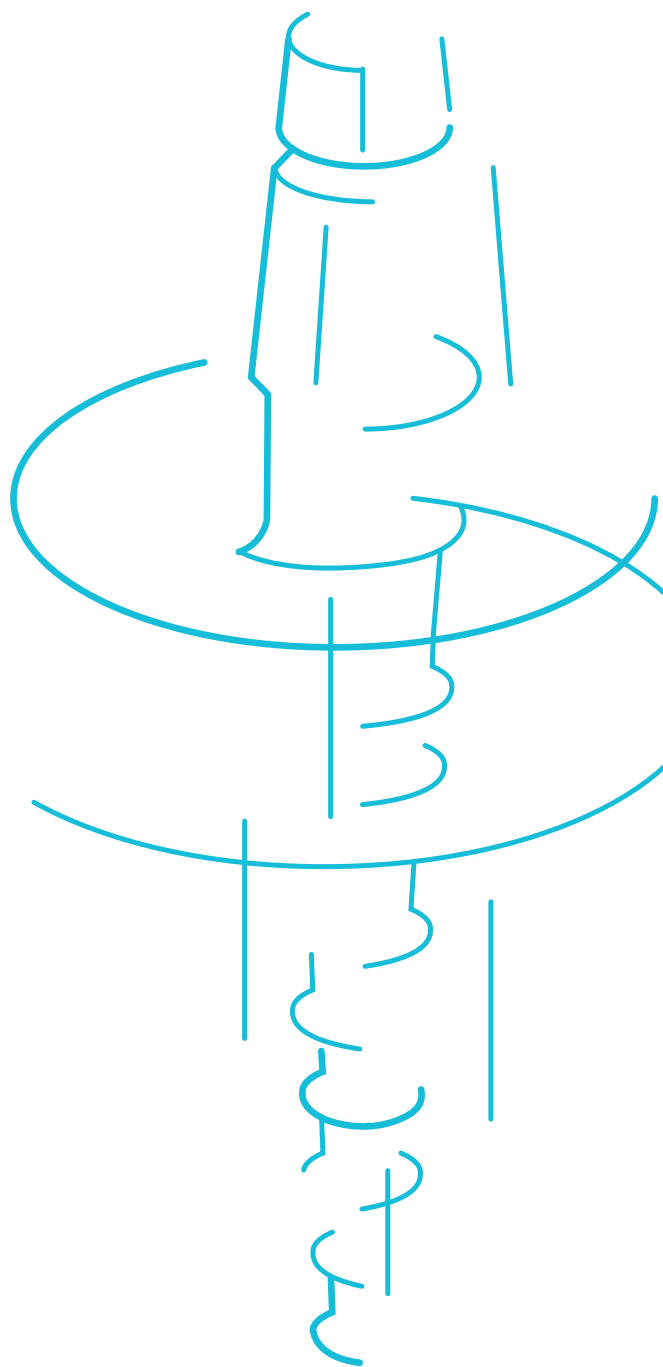
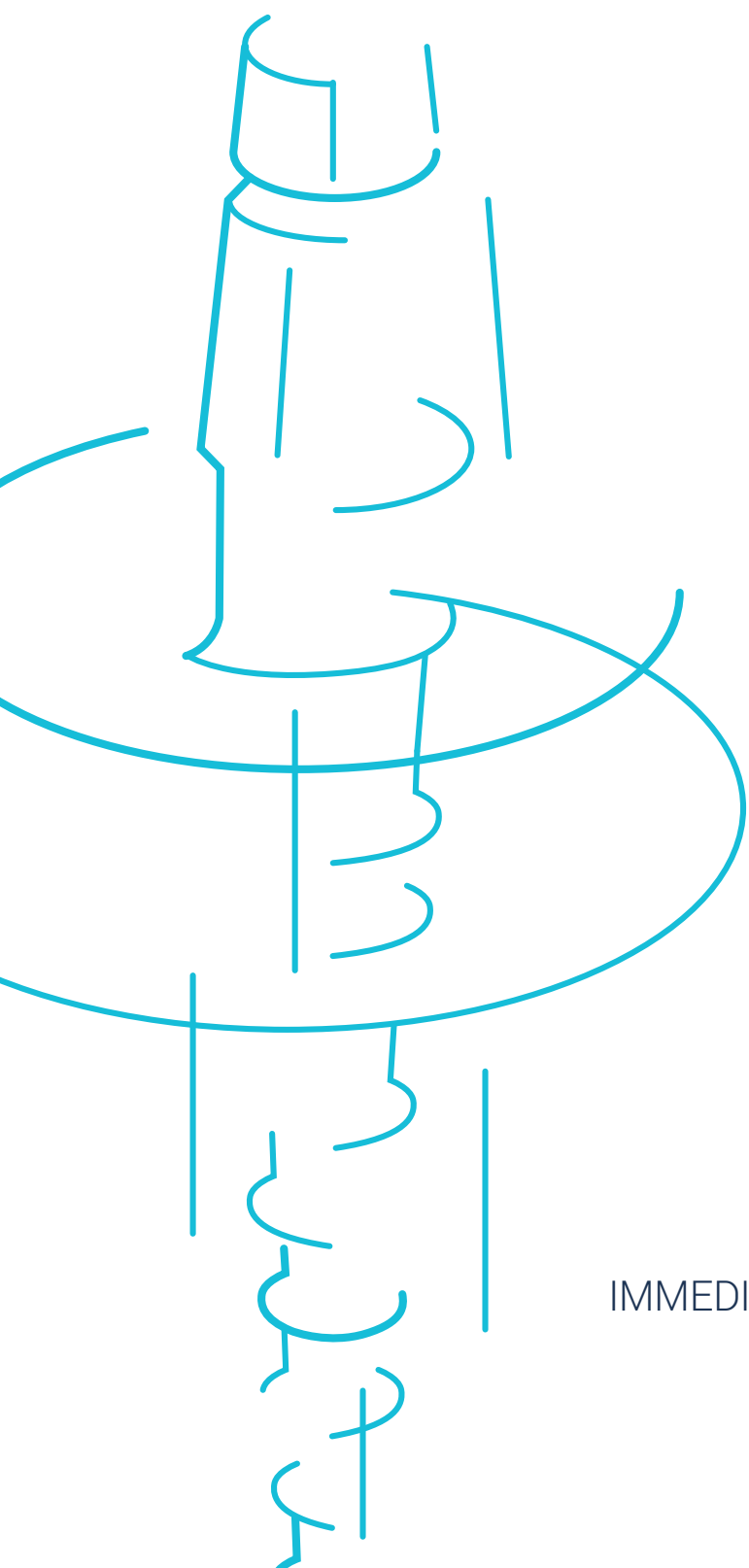


ONEWAY
BIOMED



IMMEDIATE LOADING single part implants
DENTAL IMPLANT SYSTEM

GCS ROOT®

THE ADVANTAGES

OF THE ENDOSSEOUS DENTAL IMPLANT SYSTEM GCS ROOT®

GCS ROOT® implants are used for crowns, bridges and bars. The compression screw design permits to incorporate the restoration in an immediate loading protocol (incorporation of the prosthesis within max. three days). The single-piece design reduces costs, the danger of periimplantitis and it eliminates the hazzles of screw loosening. GCS ROOT® implants are straight with prosthetic head for cementation.

The prescribed or recommended tightening torques for implants can be found on our website:

www.onewaybiomed.com/downloads



Immediate loading protocol

Very few working steps

Compression thread

Made of highly resistant titanium alloy

Smart instrument tray





Wide range
of sizes

Enossal length	6 - 20 mm
Enossal Ø	3.0 - 5.5 mm

Angulation adapter
15° and 25°

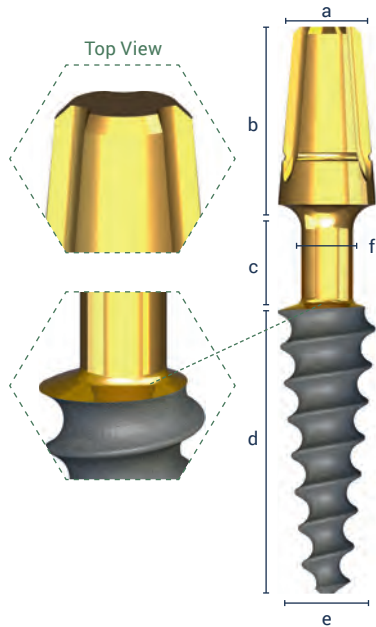


No-Itis®
Laser Surface

The new surface treatment for onewaybiomed implants is created with the latest generation of robotic tools for laser ablation. This new technology of high precision creates roughness in the implant through a mesh of hemispherical micrometric pores, with a defined, always identical size and shape and with a symmetrical distribution. The result is a more adequate topography, which provides the most suitable conditions for the osseointegration of the implant, but at the same time it is, and behaves like, a smooth surface at a micrometric (cellular) level. This means that while bone grows well on this surface, the adhesion of bacteria to the same surface is significantly reduced.

A smooth
surface that, in
contact with the bone,
is shaped like a
rough surface

GCS ROOT® IMPLANTS



- a) Abutment Ø 3.9 mm
- b) Abutment height 7.2 mm
- c) Neck length 3.7 mm
- d) Enossal length 6 - 20 mm
- e) Enossal Ø 3.0 - 5.5 mm
- f) Neck Ø 2.0 - 2.55 mm
- GCS ROOT® 3.0 - 4.0 Max. insertion torque 50 Ncm
- GCS ROOT® 4.5 - 5.5 Max. insertion torque 80 Ncm

INCLUSIVE



Double analogue, plastic

IA4/IAU

BM5118



Impression post castable, engages in the three vertical notches

PA X

BM1429



Impression post castable, internally round

TSPA 4

BM1394

NOTE TSPA 4 is part of the standard lab-set, but CAN NOT be used for GCS ROOT®. TSPA 4 can only be used on implants with a small abutment head, which can be found in the GCS® system application (REF 12-0010-05).



Neck Ø 2.0 mm:



Enossal Ø	Enossal length	Neck Ø	Note	REF	Price cat.
3.0 mm	6 mm	2 mm	bendable	BM7100	F
	8 mm			BM7101	
	10 mm			BM7102	
	12 mm			BM7103	
	14 mm			BM7104	
	16 mm			BM7105	
	18 mm			BM7106	
3.5 mm	20 mm	2 mm	bendable	BM7107	F
	6 mm			BM7110	
	8 mm			BM7111	
	10 mm			BM7112	
	12 mm			BM7113	
	14 mm			BM7114	
	16 mm			BM7115	
4.0 mm	18 mm	2 mm	bendable	BM7116	F
	20 mm			BM7117	
	6 mm			BM7120	
	8 mm			BM7121	
	10 mm			BM7122	
	12 mm			BM7123	
	14 mm			BM7124	
4.5 mm	16 mm	2.35 mm	bendable	BM7125	F
	18 mm			BM7126	
	20 mm			BM7127	
	6 mm			BM7130	
	8 mm			BM7131	
	10 mm			BM7132	
	12 mm			BM7133	
5.0 mm	14 mm	2.35 mm	bendable	BM7134	F
	16 mm			BM7135	
	18 mm			BM7136	
	20 mm			BM7137	
	6 mm			BM7140	
5.5 mm	8 mm	2.55 mm	bendable	BM7141	F
	10 mm			BM7142	
	12 mm			BM7143	
	14 mm			BM7144	
5.5 mm	6 mm	2.55 mm	bendable	BM7150	F
	8 mm			BM7151	
	10 mm			BM7152	
	12 mm			BM7153	
	14 mm			BM7154	

ADDITIONAL IMPRESSION TAKING AND LABORATORY ACCESSORIES

Description	Unit	Material	Code	REF	Price cat.
Impression post castable Internally round	Pack of 5	POM	TSPA 5	BM1393	B

For impressions on ground-down implant heads. The ring transfer constitutes the lower limit of the head, so that the impression can be poured with die stone or epoxy. Material: PP



Double analogue	1 piece	Metal	IA4/IAU	BM5119	A
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Castable abutment for large head Internally round	Pack of 5		POB	BM5121	B
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CEMENTABLE ANGULATION ADAPTER (Ti6AL4V)

These adapters are mounted on GCS ROOT® 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.
Adapter 15°	AA5 15°	BM1197	C



Adapter 25°	AA5 25°	BM1198	C
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**INSERTION TOOLS**

Description	Code	REF	Price cat.
Length 23 mm Use with contra-angle	IT2W	BM3339	E



Use with ratchet	UST 1 M	BM2064	E
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Torque wrench 10-70 Ncm	TW2	BM1356	S
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HEATLESS® DRILLS

Surgical steel, colour-coded, depth-coded and autoclaveable. The drill is marked with laser depth markings. Use between 3,000 and 5,000 rpm with good cooling and intermittent drill technique. Due to the extremely high cutting performance, you can work without pressure.



DRILLS MUST BE CHOSEN DEPENDING ON BONE QUALITY AND IMPLANT DIAMETER.

	Description	Colour	Max. working length	REF	Price cat.
	DOS 1	yellow	17 mm	BM1330	D
	DOS 2	black	17 mm	BM1331	D
	DOS 3	red	17 mm	BM1332	D
	DOS 4	blue	21 mm	BM1333	D
	DOS 5	green	17 mm	BM1334	D
	DOS 6	transparent	15 mm	BM1335	D

DOS 6 This drill is 2 mm shorter at the tip. It can therefore drill up to 2 mm deeper into hard bone than nominally indicated on the drill. Therefore, the conical bone cavity is only circularly extended in the crestal area without increasing the drilling depth.

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. For implants up to 20 mm length.

	Description	Colour	Max. working length	REF	Price cat.
	BCDX 1	yellow	15 mm	BM2103	C
	BCDX 2	black	15 mm	BM2104	C
	BCDX 3	red	15 mm	BM2105	C

| 47 mm |

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 system GCS ROOT®. Material: autoclaveable plastic.



Description	REF	Price €
UST 1 M	BM2064	
IT 2 S BCS	BM2110	
DOS 1	BM1330	
DOS 2	BM1331	
DOS 3	BM1332	
DOS 4	BM1333	
DOS 5	BM1334	
BCDX 1	BM2103	
BCDX 2	BM2104	
BCDX 3	BM2105	
Torque wrench TW2	BM1356	
Starter tray with content	BM4079	upon request

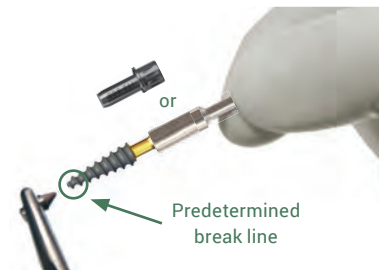
SURGERY

GCS ROOT® implants are used as compression screws. If possible, the hole should be created substantially thinner than the core diameter of the implant, since only in this way can good bone condensation be achieved. The minimum hole diameter depends on the bone density. For this reason, it is not possible to specify drill sequences that can be used favorably for all bone qualities. As a rule, it is necessary to drill much less into the soft maxilla (e.g. the DOS1 drill only can be used for GCS ROOT® implants with diameter 3.0-5.0) than into the well-mineralized mandible, which requires the use of a drilling sequence adjusted to the bone density. **In very hard bone the implants should be inserted slightly deeper and then turned back 1/2 round.**

1. Handling

Hold the implant by the holder and place the insertion tool on the implant head. The endosseous implant surface must not be touched. Pull out the implant with the plug and then twist off the plug with the needle holder at the predetermined breaking point.

GCS ROOT® implant with insertion tool IT2W (for angle piece) and IT2 BCS (manual)



Twisting off the bracket with the needle holder

2. Insertion using manual tools

Insert the implant by hand until it is firmly seated in the jaw.

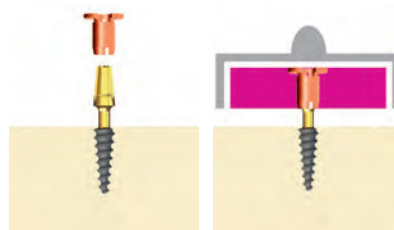


IT2 BCS

IT2W

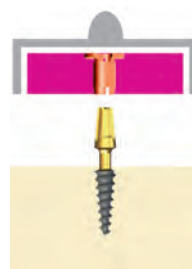
Using the ratchet, torque ratchet or contraangle, screw the implant clockwise into the cavity. The endosseous part of the implant must be completely covered by bone. The polished implant neck is located in the mucosa. We recommend screwing the implant into the bone up to 1 mm deeper into the implant neck.

3. Impression



Attachment of the impression post

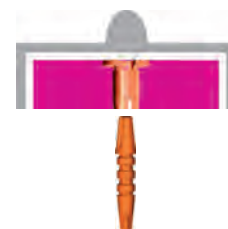
Pressureless impression taking



Removal of the scoop from the implant. The impression post is located in the impression material. The impression can be sent to the laboratory.

4. Laboratory procedures

Attachment of the impression post onto lab analogue.



IA4/IAU

The modeling is performed on the castable part POB (internally round; for bridges and bars).

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. GCS® 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.

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

(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.



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

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



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