

SYSTEM APPLICATION

Two-part implants



IMMEDIATE LOADING
DENTAL IMPLANT SYSTEM

SIMPLADENT®

SIMPLADENT®

Simpladent GmbH
Dorfplatz 11
CH - 8737 Gommiswald / SG
SWITZERLAND

Phone +41 (0)55 293 23 70
implants@simpladent.ch
www.simpladent-implants.com

IMPLANT SYSTEM FOR ENDOSSEOUS DENTAL IMPLANTATIONS



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

Reliable insertion –
ease of use

Universal application for
permanent and removable
prosthodontics

Satisfied patients in each
phase of the procedure

The Allfit® S implantsystem **SSO®**, **STO®** and **STW®** is for two-stage endosseous dental implants and consist of highly break-proof titanium alloy Ti6Al4V ELI.

We are certified DIN EN ISO 13485, and annex II of EEC Directive 93/42 EWG (2007).

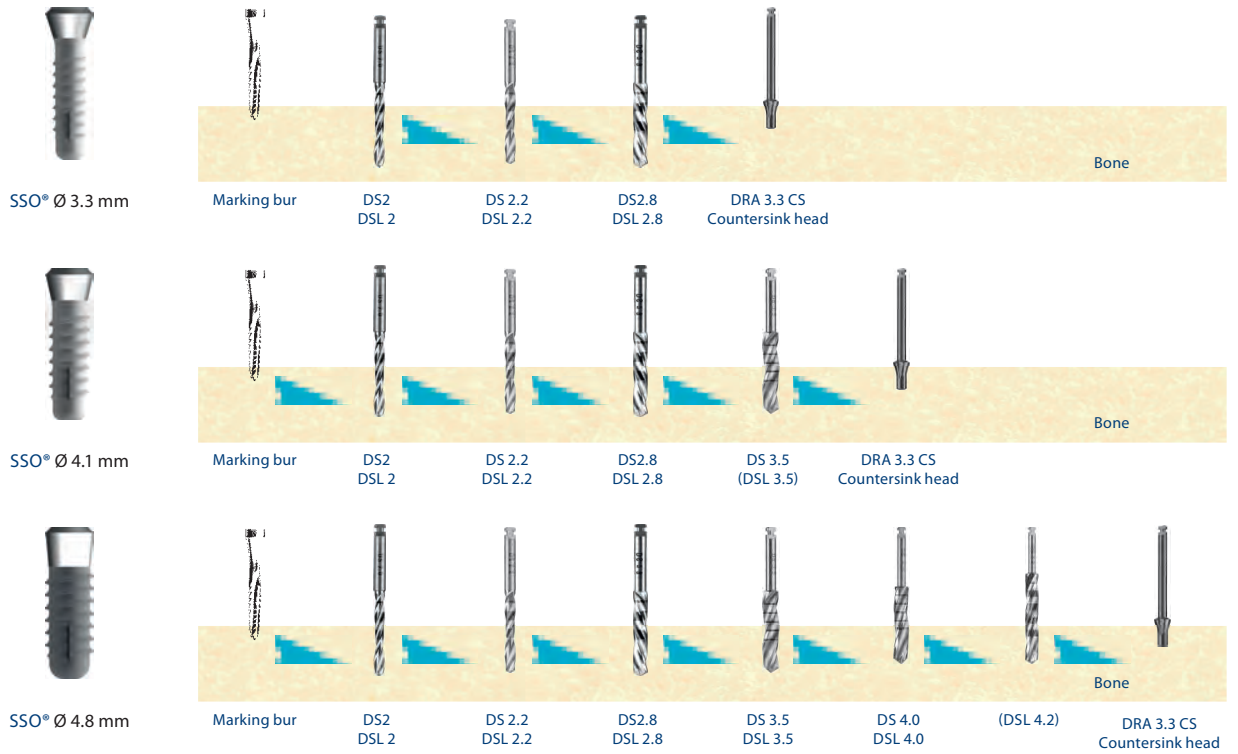
Due to technical reasons the product dimensions shown in this brochure might deviate from reality.

SSO®, STO® and STW® are registered trademarks.

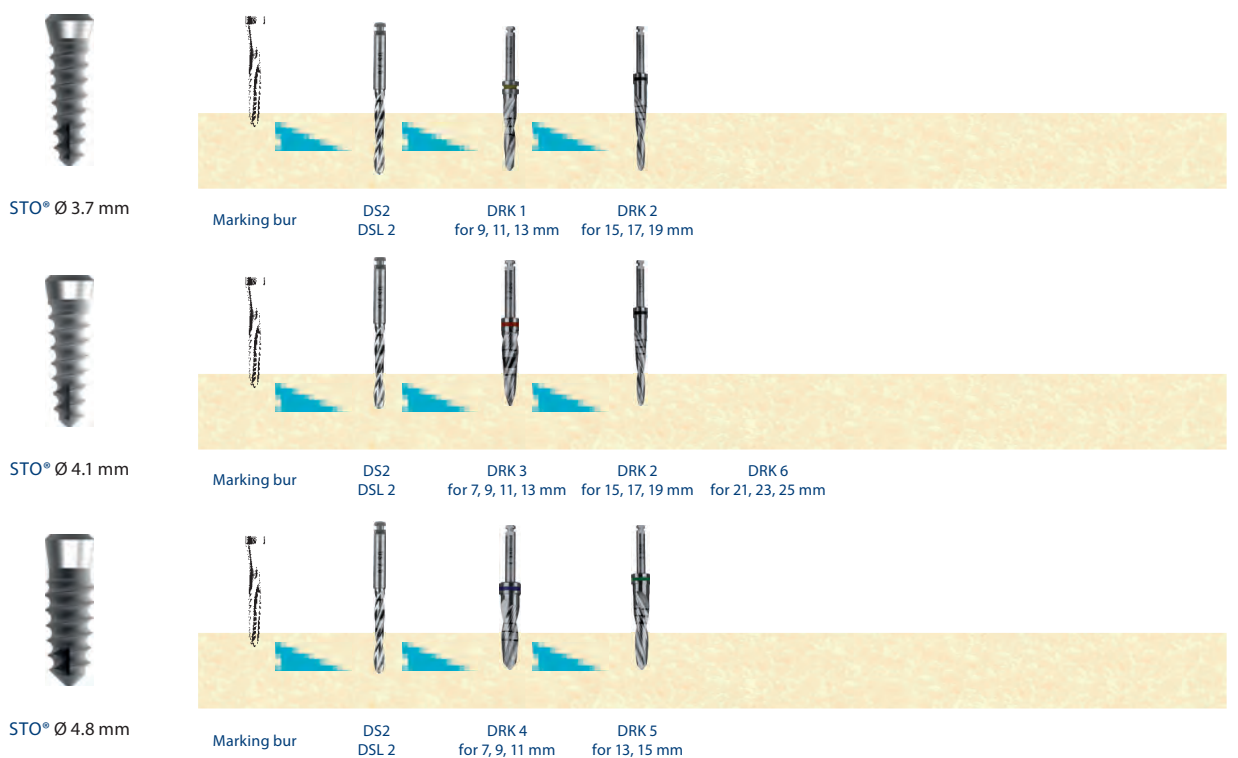
In case that implants would be reprocessed (cleaned, resterilized) infections could occur, because no validated procedures for reprocessing are available.

SURGERY

1.1a. Recommended Drill Sequences for SSO® Implants

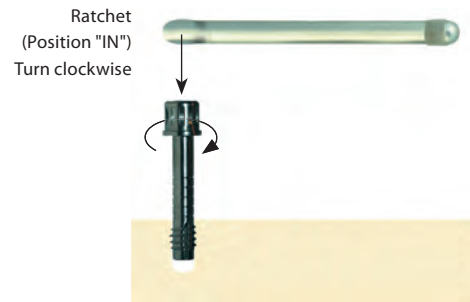


1.1b. Recommended Drill Sequences for STO® Implants



1.2 Tap for lower jaw (only for use with SSO®)

- 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 SSO® / STO®



Original packaging



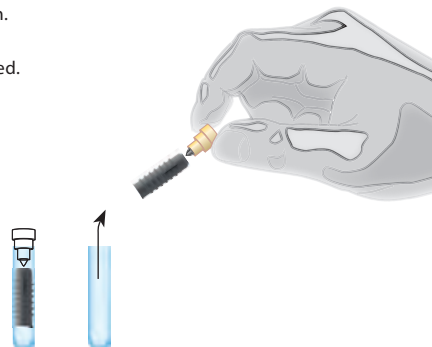
Open the pack using the flap.
Remove the label and stick it into
your patient's record.



The blister (secondary packaging)
contains the implant in a sterile tube
(primary package).

3. Removing the implant from the sterile tube

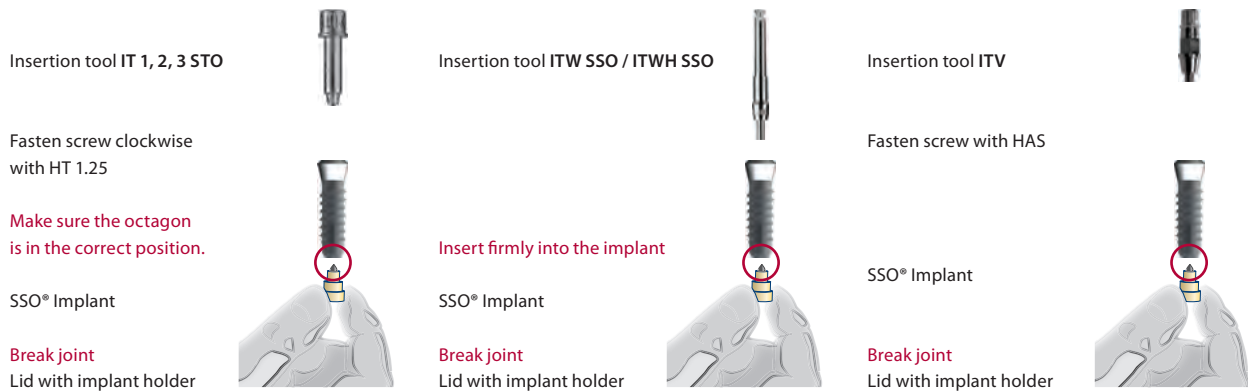
1. Open the lid. The implant is connected to the lid through a breakable section.
2. Remove the implant without touching the inner walls of the tube.
3. For some types the implant comes with an insertion tool already pre-mounted.



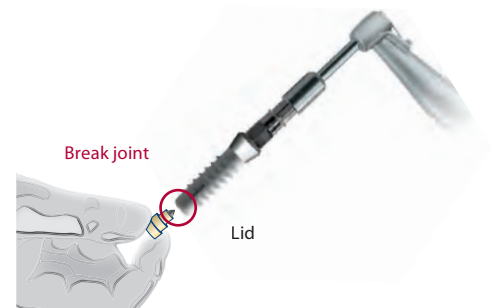
4. Handling

Assembling the placement aid

Attach the insertion tool to the implant (SSO or STO) 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 sits tightly in the jaw bone.



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.



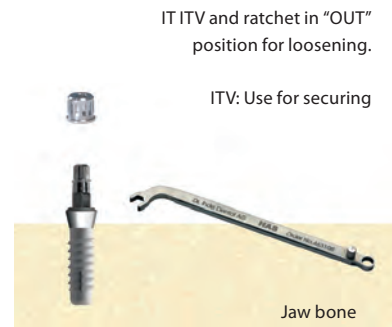
6. Remove Insertion Tool from Implant

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 STO 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).



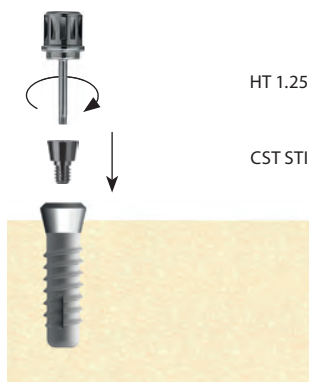
6. Result

The implant is fully inserted and ready for healing.

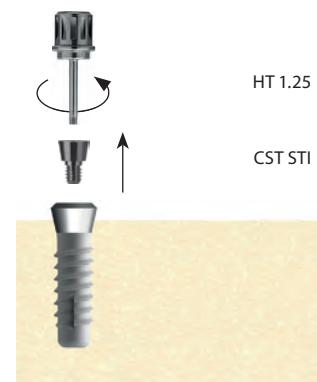


8. Post-operative Treatment

Close the implant with a cover screw CST STI (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 tray 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 trays is possible.

9.3 Impression taking

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

9.4

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

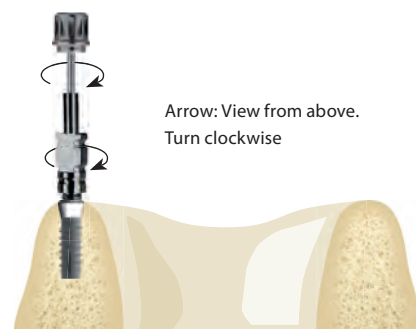
9.5

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

Hex-Instrument HT 1.25

Fasten impression post OLT STO

SSO®/STO® Implant

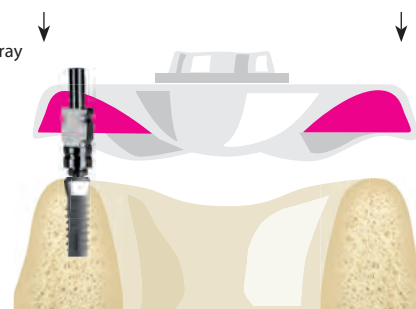


Impression tray

Impression material

Impression post OLT STO

SSO®/STO® Implant

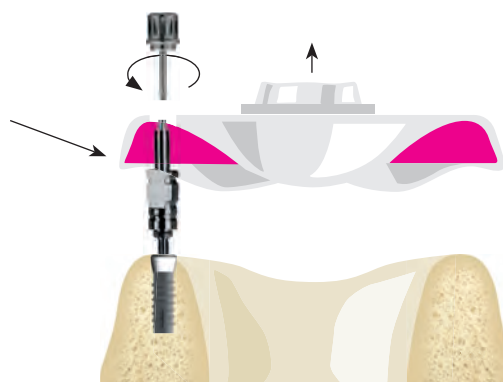


Loosen screw with HT 1.25

Window in Impression tray

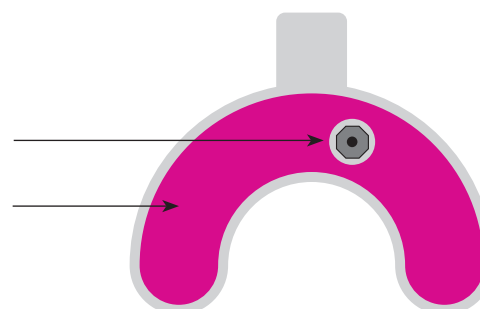
OLT STO

SSO®/STO® Implant



Position of the Impression post OLT STO

Impression material



HT 1.25

Close healing screw clockwise

SSO® / STO® Implant



10. Further processing in the Laboratory

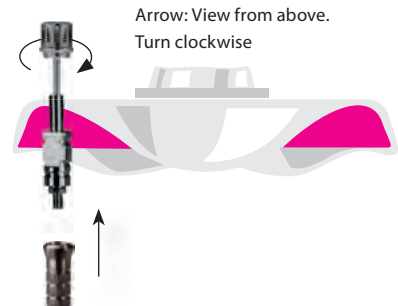
10.1

Screw the analogue IA STO against it.

Tighten the screw using HT 1.25

OLT STO

IA STO

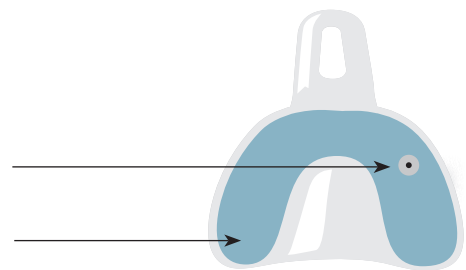


10.2

The impression is poured with gypsum. Then the transfer OLT STO is unscrewed from the laboratory analogue IA STO.

Laboratory analog

Pour Gypsum



10.3

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

IA STO

Gypsum



10.4

Positioning the solid secondary part TLA STO (straight) or angulated TLA 15 STO, TLA 20 STO or TLA 25 STO, at which the optimal position and adequate angulation must be determined.

Note

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

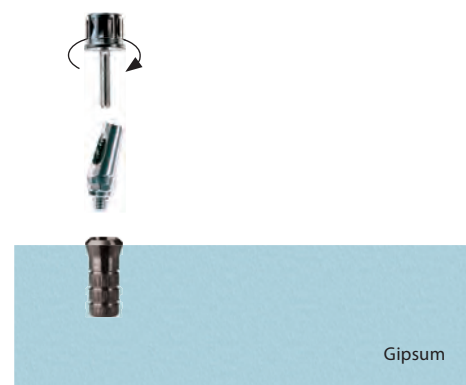
TT 1.25

TLA 15 STO

Ensure correct position of the octagon

IA STO

Gypsum



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.

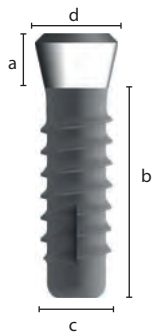
TLA 15 STO

Bone



SSO® IMPLANTS

Successful implant with octagon socket and 8° inner cone. Octagonal system. 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.



Internal octagon

		Description	endosseous Ø	endosseous length	REF	Price cat.
		SSO 3.3 9	3.3 mm	9 mm	13-420000	F
		SSO 3.3 11	3.3 mm	11 mm	13-420001	F
		SSO 3.3 13	3.3 mm	13 mm	13-420002	F
		SSO 3.3 15	3.3 mm	15 mm	13-420003	F
		SSO 4.1 7	4.1 mm	7 mm	13-420004	F
		SSO 4.1 9	4.1 mm	9 mm	13-420005	F
a) aesthetic head	1.8 mm	SSO 4.1 11	4.1 mm	11 mm	13-420006	F
b) endosseous length	7 - 17 mm	SSO 4.1 13	4.1 mm	13 mm	13-420007	F
c) endosseous Ø	3.3 -4.8 mm	SSO 4.1 15	4.1 mm	15 mm	13-420008	F
d) Head Ø	4.8 mm	SSO 4.1 17	4.1 mm	17 mm	13-420009	F
		SSO 4.8 7	4.8 mm	7 mm	13-420010	F
		SSO 4.8 9	4.8 mm	9 mm	13-420011	F
		SSO 4.8 11	4.8 mm	11 mm	13-420012	F
		SSO 4.8 13	4.8 mm	13 mm	13-420013	F

Delivery incl. surgical screw CST STI



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 STO 3.7 and SSO 3.3 should be used as supporting implants.

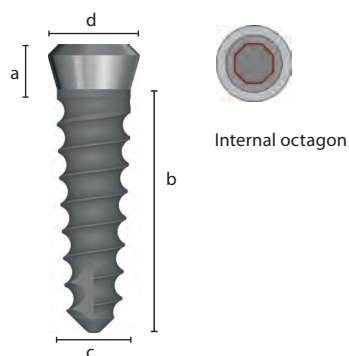
STO 3.7 mm and SSO 3.3 mm implants may not be used in the molar region and not as single tooth implants with off axis load. STO 3.7 mm and SSO 3.3 mm implants are used as supporting implants, for example to increase the number of abutments in immediate load situation. Never use STO 3.7 mm and SSO 3.3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

Note the following contra-indications:

STO 3.7, SSO 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.

STO® IMPLANT

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 ELI) according to ASTM F 136/ISO 5832-3. Compression screw thread and 8° internal cone for stable endosseous anchorage.



		Description	endosseous Ø	endosseous length	REF	Price cat.
		STO 3.7 9	3.7 mm	9 mm	13-420020	F
		STO 3.7 11	3.7 mm	11 mm	13-420021	F
		STO 3.7 13	3.7 mm	13 mm	13-420022	F
		STO 3.7 15	3.7 mm	15 mm	13-420023	F
		STO 4.1 7	4.1 mm	7 mm	13-420024	F
		STO 4.1 9	4.1 mm	9 mm	13-420025	F
		STO 4.1 11	4.1 mm	11 mm	13-420026	F
		STO 4.1 13	4.1 mm	13 mm	13-420027	F
		STO 4.1 15	4.1 mm	15 mm	13-420028	F
		STO 4.8 7	4.8 mm	7 mm	13-420029	F
a) aesthetic head	1.8 mm	STO 4.8 9	4.8 mm	9 mm	13-420030	F
b) endosseous length	7.0 - 15 mm	STO 4.8 11	4.8 mm	11 mm	13-420031	F
c) endosseous Ø	3.7 / 4.1 / 4.8 mm	STO 4.8 13	4.8 mm	13 mm	13-420032	F
d) Head Ø	4.8 mm	STO 4.8 15	4.8 mm	15 mm	13-420033	F

ACCESSORIES FOR SSO®, STO®

**Description**

Cover screw

Gingivaformer

for 2 mm gingival height, cylindrical

for 4 mm gingival height, cylindrical

for 5 mm gingival height, cylindrical

Code

CST STI

HS2 STI

HS4 STI

HS5 STI

REF

13-420300

13-420301

13-420302

13-420303

Price cat.

A

B

B

B

ABUTMENTS FOR CEMENTED PROSTHETICS FOR SSO®, STO®

With Octagon. Anti-rotation, screw-in abutment with pre-assembled screw for cemented crowns or bridges. Fasten with TT 1.25.

**Description**

Straight

15° angled. The angulation 15° runs axial over the edge of the octagon.

15° angled. The angulation of 15° runs axial over the area of the octagon (color: metallic yellow).

20° angled. The angulation of 20° runs axial over the edge of the octagon

25° angled. The angulation of 20° runs axial over the edge of the octagon.

25° angled. The angulation of 25° runs axial over the area of the octagon (color: metallic yellow).

Code

TLA STO

TLA 15 STO

TLA 15F STO

TLA 20 STO

TLA 25 STO

TLA 25F STO

REF

13-420306

13-420307

13-420308

13-420309

13-420311

13-420312

Price cat.

D

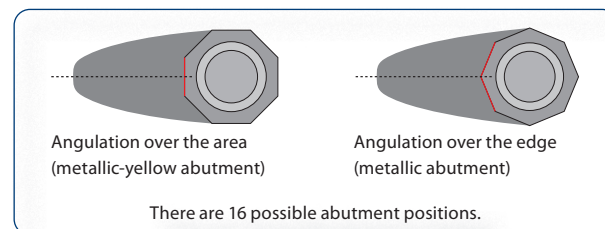
E

E

E

D

D

**Description**

Impression post with Pick-Up Screw

Laboratory analog (Inner octa)

Synthetic base, cauterizable, 7.4 mm high
TLA STO, TLA STISynthetic base, cauterizable, 4 mm high
TLA 15 STOSynthetic base, cauterizable, 4 mm high
TLA 20 STO
PS 20Synthetic base, cauterizable, 4 mm high
TLA 25 STO
PS 2 5**Code**

OLT STO

IA STO

PS

PS 15

PS 20

PS 2 5

REF

13-420350

13-420348

13-420354

13-420355

13-420356

13-420357

Price cat.

B

B

C

A

A

A

ALTERNATIVE

Description

Screw SF OLT, short, 14.5 mm for OLT STO. 5 pieces / pack

Code

SF OLT

REF

13-420909

Price cat.

B

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



Description

For cemented crowns and bridges. height above implant 6.5 mm, 8° incline.
Can be shortened or trimmed. Flat on one side.
Direct impression or transfer to laboratory analog IA STI. Fasten with HT 1.25

Code

TCA STI

REF

13-420313

Price cat.

D



Description

Impression post
9 mm high

Impression post
13 mm high

Laboratory
analog with
cone

Plastic base,
cauterizable,
7,4 mm high
TLA 20 STO

Plastic base,
cauterizable,
4 mm high
TLA 15 STO

Code

TS STI

TSX STI

IA STI

PS

PS 15

REF

13-420345

13-420411

13-420347

13-420354

13-420355

Price cat.

B

B

B

A

A

Description

Flat on one side for increased rotation stability
6° incline, fasten with IT TCA



**Height above
implant**

4 mm

5.5 mm

7 mm

Color

yellow

gray

blue

Code

SA4 STI

SA5 STI

SA7 STI

REF

13-420318

13-420319

13-420320

Price cat.

C

C

C



Description

Color coded transfer post
for SA-Abutments
Use with REF 13-460230

Abutment analog
use with TZ SA 4, 5, 7

Castable abutment
10 mm high, reducible

Patented gingiva retraktor
4 pieces / pack
(Use instead of retraction
cord), Material: PP

Anti-rotation (PA SA)
Internally round (PA SR)

Code

TZ SA 4, 5, 7

AA SA 4, 5, 7

PA SA / PA SR

REF

13-420404, 13-420405,
13-420406

13-420324, 13-420325,
13-420326

13-420327, 13-420328

13-460230

Price cat.

A

B

A

A


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

	Description	height above implant	Color	Code	REF	Price cat.
	6° incline, fasten with IT TCA	4 mm	yellow	TCA4 STI	13-420415	C
		5.5 mm	gray	TCA5 STI	13-420416	C
		7 mm	blue	TCA7 STI	13-420417	C



Description	Abutment analog use with TCA 4	Abutment analog use with TCA 5	Abutment analog use with TCA 7	Castable abutment 10 mm high reducible, white
Code	AA TCA 4	AA TCA 5	AA TCA 7	PA TCA
REF	13-420407	13-420408	13-420409	13-420332
Price cat.	B	B	B	A


ABUTMENTS FOR SCREW-IN PROSTHETICS

	Description	Code	REF	Price cat.
	With Octagon (Anti-rotation). Abutment with double threaded screw and octagon for Crowns, bridges and bases. Anti-rotation Anchorage of the prosthetics. height above implant 1.5 mm. Fasten with HT 1.25	OSA STO	13-420337	E
	Single-piece and anti-rotational octagonal screw-in abutment; crowns, bridges and bar connectors. height above implant: 1.5 mm. Fasten with HT 1.77 / HTX 1.77	for OSA STI	13-420338	D




Description	Transfer post	Screws for anchorage of TST STI	White castable abutment 10 mm high, edged internally 5 pieces / pack	White castable abutment 10 mm high, internally round 5 pieces / pack	Screws
Code	TST STI	SF 365 or SF 415	PAOA	PAOR	SF 350 or SF 365
REF	13-420339	13-420938 or 13-420928	13-420342	13-420343	13-420930 or 13-420938
Price cat.	D	B	B	B	B

ABUTMENTS FOR REMOVABLE PROSTHETICS

	Description		Code	REF	Price cat.
	TCT SSO 0.5		TCT SSO 0.5	13-420420	D
	TCT SSO 1.5	for screw-in prosthetics Fasten with HT 1.77	TCT SSO 1.5	13-420421	D
	TCT SSO 2.5		TCT SSO 2.5	13-420422	D
	TCT SSO 4		TCT SSO 4	13-420423	D

IMPRESSION AND LABORATORY ACCESSORIES


	Description		Code	REF	Price cat.
	Transfer post		TST	13-418147	B
	long screw		SFL	13-420428	A
	TCT-Analog		BTT	13-418100	B
	Castable abutment, 12 mm high, internally round. 5 pieces / pack		PSTR (gray)	13-418124	B
	Castable abutment, 12 mm high, internally edged. 5 pieces / pack		PSTA	13-418123	B
	Screw for fastening		SF	13-418151	B

LOCALICER®

Abutment for removable prosthetics. Fasten with HT 1.77

	Description	Height		REF	Price cat.
	LOC S 2.5	2.5 mm		13-420386	D
	LOC S 4	4.0 mm		13-420385	D

ACCESSORIES FOR LOCALICER®

	Description		Code	REF	Price category
	Analog + impression cap Set		AA LOC	13-462337	C
	Set with 5 Caps + 1 Housing (EXTERNAL PRODUCT)		NCS	13-462338	D
	Pull off force Yellow 600 g, Pink 1.200 g, Clear 1.800 g, Violet 2.700 g. Black has no retention and is designed for temporary solutions for up to one month.				

TITANIUM BASE FOR CAD CAM

Base for Octa system / SSO. Material Ti6Al4V ELI, anti-rotation. Incl. screw SF N62.



Description

Height 3.9 mm above implant shoulder

Height 8 mm above implant shoulder

Code **REF** **Price cat.**

MB 4 SSO 13-463120 B

MB 8 SSO 13-463122 B

RETENTIVE BALL ATTACHMENTS



Description

Ball abutment fits nylon cap NC / NC1 / NC2
Head Ø 2.5 mm, height above implant 3 mm.
Fasten with HT 1.25

Ball abutment fits nylon cap NC / NC 1 / NC 2
Head Ø 2.5 mm, height above implant 5.4 mm.
Fasten with Tool E (alternatively with HAS2).

Code **REF** **Price cat.**

TB STI 13-420361 D

TB3 STI 13-420363 D

1. 2. 3.



Description	1. Laboratory analog with cone 2. Transfer post, fasten with HT 1.25 3. Ball analog	Nylon caps NC 2 pieces / pack (EXTERNAL PRODUCT)	Nylon caps R-NC with increased friction strength 2 pieces / pack (EXTERNAL PRODUCT)	Sleeve for all NC (EXTERNAL PRODUCT)
Code	IA STI, TS STI, IAB	NC, NC 1, NC 2	R-NC, R-NC 1, R-NC 2	H
REF	13-420347, 13-420345, 13-420566	13-465028, 13-465029, 13-465030	13-465034, 13-465033, 13-465032	13-465031
Price cat.	B, B, C	A1	A1	B



Description

Ball abutment, fits gold cap GC
Head Ø 2.3 mm, height above implant 3 mm.
Fasten with Tool E (alternatively with HAS2).

Code **REF** **Price cat.**

TB2 STI 13-420362 D



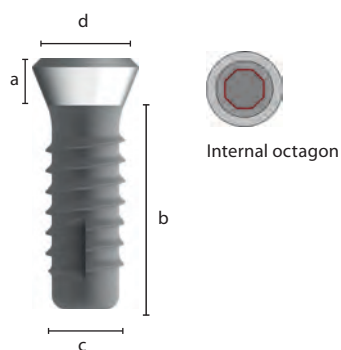
Description	Laboratory analog with cone	Transfer post, fasten with HT 1.25	Ball analog	Gold cap
Code	IA STI	TS STI	IAB 2	GC
REF	13-420347	13-420345	13-420367	13-420366
Price cat.	B	B	C	upon request

STW® IMPLANTS

Octagonal system

Implant with Internal octagon and 8° internal cone. For anti-rotation Superstructures. Highly fracture resistant titanium alloy (Ti6Al4V ELI) 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	endosseous Ø	endoss. Length	REF	Price cat.
STW 4.8 7	4.8 mm	7 mm	13-420015	F
STW 4.8 9	4.8 mm	9 mm	13-420016	F
STW 4.8 11	4.8 mm	11 mm	13-420017	F
STW 4.8 13	4.8 mm	13 mm	13-420018	F

a) aesthetic head	1.8 mm
b) endosseous length	7 - 13 mm
c) endosseous Ø	4.8 mm
d) Head Ø	6.5 mm

SURGICAL ACCESSORIES



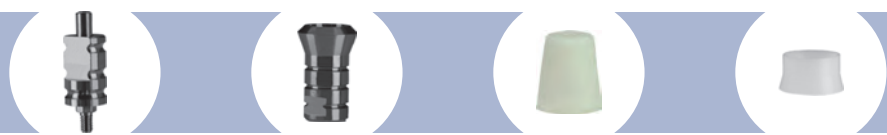
Description	Code	REF	Price cat.
Surgical Screw Cover screw for STW® implant, non sterile	CST STW	13-420370	B
Gingivaformer for 2 mm Gingival height cylindrical	HS2 STW	13-420371	B
Gingivaformer for 4 mm Gingival height cylindrical	HS4 STW	13-420372	B
Base for octa system / STW, Ti6Al4V ELI, anti-rotation. Height 3.9 mm above implant shoulder. Incl. screw SF N62	MB4 STW	13-463121	B

ABUTMENTS FOR CEMENTED PROSTHETICS FOR STW®

LOCK ABUTMENT for SSTW® with Octagon. Anti-rotation screw- in abutment with pre-mounted screw, for cemented crowns and bridges.
Fasten with TT 1.25



Description	Code	REF	Price cat.
Straight abutment	TLA STW	13-420373	D
15° angled abutment. The 15° line angle runs axially across the edge of the octagon.	TLA 15 STW	13-420374	E



Description	Impression post with Pick-Up screw Fasten with HT 1.25	Laboratory analog	Plastic base, castable for TLA STW	Plastic base, castable for TLA 15 STW
Code	OLT STW	IA STW	PA STW	PA 15 STW
REF	13-420351	13-420349	13-420359	13-420360
Price cat.	B	B	A	A

ALTERNATIVE

Description	Code	REF	Price cat.
Screw SF OLT, short, 14,5 mml for OLT STW 5 pieces / pack	SF OLT	13-420909	B
Replacement screw for TLA abutments of all S-implants	SF TLA	13-420910	A

SOLID ABUTMENTS





Description	height above implant	Code	REF	Price cat.
6° angle, fasten with HT 1.77 Flattened on one side for increased rotational stability	4 mm	SA4 STW	13-420375	C
	6 mm	SA6 STW	13-420376	C



Description	Transfer post for SA6 abutment	Abutment analog brown anodized, for TZ SA6 STW	Castable abutment
Code	TZ SA6 STW	AA SA6 STW	PA STW
REF	13-420377	13-420378	13-420359
Price cat.	A	A	A

RETENTIVE BALL ATTACHMENTS




	Description	Code	REF	Price cat.
	Ball abutment, fits nylon cap NC / NC1 / NC2 Head Ø 2.5 mm, height above implant 3 mm. Fasten with HT 1.25	TB STW	13-420365	D
	Ball abutment, fits nylon cap NC Head Ø 2.5 mm, height above implant 3.95 mm. Fasten with Tool E (alternatively with HAS2 möglich).	TB3 STW	13-420364	D

1. 2. 3.



Description	1. Laboratory analog 2. Transfer post, fasten with HT 1.25 3. Ball analog	Nylon caps NC 2 pieces / pack (EXTERNAL PRODUCT)	Nylon caps R-NC with increased friction strength 2 pieces / pack (EXTERNAL PRODUCT)	Sleeve for all NC (EXTERNAL PRODUCT)
Code	IA STW, TS STW, IAB	NC, NC 1, NC 2	R-NC, R-NC 1, R-NC 2	H
REF	13-420349, 13-420346, 13-420566	13-465028, 13-465029, 13-465030	13-465034, 13-465033, 13-465032	13-465031
Price cat.	B, B, C	A1	A1	B

DRILL SEQUENCES CYLINDRICAL IMPLANTS

Implants	endoss. Ø	recommended drill sequences
 SSO°	3.3 mm	DS 2 → DS 2.2 → DS 2.8 → DRA 3.3 CS 13-425001 → 13-425004 → 13-425005 → 13-425046 DSL 2 → DSL 2.2 → DSL 2.8 → DRA 3.3 CS 13-425002 → 13-425004 → 13-425006 → 13-425046
 SSO°	4.1 mm	DS 2 → DS 2.2 → DS 2.8 → DS 3.5 → DRA 4.1 CS 13-425001 → 13-425004 → 13-425005 → 13-425009 → 13-425047 DSL 2 → DSL 2.2 → DSL 2.8 → (DLS 3.5) → DRA 4.1 CS 13-425002 → 13-425004 → 13-425006 → (13-425010) → 13-425047
 SSO°	4.8 mm	DS 2 → DS 2.2 → DS 2.8 → DS 3.5 → DS 4.0 → (DS 4.2) → DRA 4.1 CS 13-425001 → 13-425004 → 13-425005 → 13-425009 → 13-425011 → (13-425013) → 13-425047 DSL 2 → DSL 2.2 → DSL 2.8 → DLS 3.5 → DSL 4.0 → (DSL 4.2) → DRA 4.1 CS 13-425002 → 13-425004 → 13-425006 → 13-425010 → 13-425012 → (13-425014) → 13-425047

DRILL SEQUENCES CONICAL IMPLANTS

Implants	endoss. Ø	Length in mm	recommended drill sequences
	STO®	3.7 mm	9 / 11 / 13 DS 2 13-425001 → DS 2.2 → DRK 1 13-425020 → DRA 3.3 CS 13-425046
			DSL 2 13-425002 → DSL 2.2 13-425004 → DRK 1 13-425020 → DRA 3.3 CS 13-425046
		15	DS 2 13-425001 → DS 2.2 → DRK 2 13-425021 → DRA 3.3 CS 13-425046
			DSL 2 13-425002 → DSL 2.2 13-425004 → DRK 2 13-425021 → DRA 3.3 CS 13-425046
		7 / 9 / 11 / 13	DS 2 13-425001 → DS 2.2 → DRK 3 13-425022 → DRA 4.1 CS 13-425047
			DSL 2 13-425002 → DSL 2.2 13-425004 → DRK 3 13-425022 → DRA 4.1 CS 13-425047
	STO®	4.1 mm	15 / 17 / 19 DS 2 13-425001 → DS 2.2 → DRK 2 13-425021 → DRA 4.1 CS 13-425047
			DSL 2 13-425002 → DSL 2.2 13-425004 → DRK 2 13-425021 → DRA 4.1 CS 13-425047
		21 / 23 / 25	DS 2 13-425001 → DS 2.2 → DRK 6 13-425025 → DRA 4.1 CS 13-425047
			DSL 2 13-425002 → DSL 2.2 13-425004 → DRK 6 13-425025 → DRA 4.1 CS 13-425047
		7 / 9 / 11	DS 2 13-425001 → DS 2.2 → DRK 4 13-425023 → DRA 4.1 CS 13-425047
			DSL 2 13-425002 → DSL 2.2 13-425004 → DRK 4 13-425023 → DRA 4.1 CS 13-425047
	STO®	4.8 mm	13 / 15 DS 2 13-425001 → DS 2.2 → DRK 5 13-425024 → DRA 4.1 CS 13-425047
			DSL 2 13-425002 → DSL 2.2 13-425004 → DRK 5 13-425024 → DRA 4.1 CS 13-425047
		all lengths	DS 2 13-425001 → DS 2.2 → DS 2.8 13-425005 → DS 3.5 13-425009 → DS 4.0 13-425011 → (DSL 4.2) (13-425014) → DRA 4.8 CSW 13-425048
			DSL 2 13-425002 → DSL 2.2 13-425004 → DSL 2.8 13-425006 → DSL 3.5 13-425010 → DSL 4.0 13-425012 → (DSL 4.2) (13-425014) → DRA 4.8 CSW 13-425048

Note that STO 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.

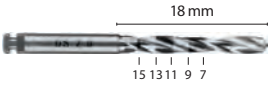






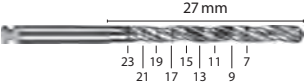






PATHFINDER DRILLS

	Description	Type	Working length	REF	Price cat.
	BCD 1	non sterile	15 mm	13-900240	C
	BCDX 1	non sterile	15 mm	13-900243	C

TWIST DRILL FOR SSO®, STW®

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




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. Almost no heat development and excellent as a result of this geometry.

	Description	Length	Working length	Drill Ø	REF	Price cat.
	DS 2	36.5 mm	18 mm	2 mm	13-425001	D
	DS 2.2	36.5 mm	18 mm	2.2 mm	13-425003	D
	DS 2.8	36.5 mm	18 mm	2.8 mm	13-425005	D
	DS 3.2	36.5 mm	18 mm	3.2 mm	13-425007	D
	DS 3.5	36.5 mm	18 mm	3.5 mm	13-425009	D
	DS 4.0	36.5 mm	18 mm	4.0 mm	13-425011	D
	DS 4.2	36.5 mm	18 mm	4.2 mm	13-425013	D
	DSL 2	45.5 mm	27 mm	2 mm	13-425002	D
	DSL 2.2	45.5 mm	27 mm	2.2 mm	13-425004	D
	DSL 2.8	45.5 mm	27 mm	2.8 mm	13-425006	D
	DSL 3.2	45.5 mm	27 mm	3.2 mm	13-425008	D
	DSL 3.5	45.5 mm	27 mm	3.5 mm	13-425010	D
	DSL 4.0	45.5 mm	27 mm	4.0 mm	13-425012	D
	DSL 4.2	45.5 mm	27 mm	4.2 mm	13-425014	D

HEATLESS® DRILL "DRK" FOR IMPLANTS WITH CONICAL CORE






Form drills made from surgical steel (SS), length and color coded, resterilizable. Maximum motor speed with external cooling 700 rpm. 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 (P.33), DSL2 (P.33) or Pathfinder (P.34)

	Description	System	Color	Length	Implant Ø	REF	Price cat.
	DRK 1	STO®	yellow	9, 11, 13 mm	3.3 / 3.7 mm	13-425020	D
	DRK 2	STO®	black	15, 17, 19 mm	3.3 / 3.7 / 4.1 mm	13-425021	D
	DRK 3	STO®	red	7, 9, 11, 13 mm	4.1 mm	13-425022	D
	DRK 4	STO®	blue	7, 9, 11 mm	4.8 mm	13-425023	D
	DRK 5	STO®	green	13, 15 mm	4.8 mm	13-425024	D
	DRK 6	STO®	metallic	21, 23, 25 mm	3.7 / 4.1 mm	13-425025	D

It has been scientifically proven that heatless drills 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	Implant Ø	REF	Price cat.
	DRA 3.3 CS	SSO®, STO®	non sterile	3.3 mm	13-425046	D
	DRA 4.1 CS	SSO®, STO®	non sterile	4.1 mm	13-425047	D
	DRA 4.8 CSW	SSw®	non sterile	4.8 mm	13-425048	D

TAP (MADE OF CRONIDUR) FOR SSO®, STW®

	Description	Finish	Length	Implant Ø	REF	Price cat.
	TAP1 3.3	9-17 mm	34 mm	3.3 mm	13-425055	G
	TAP1 4.1	9-17 mm	34 mm	4.1 mm	13-425056	G
	TAP1 4.8	9-17 mm	30 mm	4.8 mm	13-425057	G
	TAP2 3.3	9-17 mm	23 mm	3.3 mm	13-425058	G
	TAP2 4.1	9-17 mm	23 mm	4.1 mm	13-425059	G

GUIDE JACKET

**Description**

BFH 2.0 guide jacket for pilot drill 2.0mmd

Amount

Pack of 5

Material

Ti6Al4V

REF

13-425410

Price cat.

A



BFH 2.5 guide jacket for pilot drill 2.5mmd

Pack of 5

Ti6Al4V

13-425411

A



BFH 3.0 guide jacket for pilot drill 3.0mmd

Pack of 5

Ti6Al4V

13-425412

A



BFH 3.2 guide jacket for pilot drill 3.2mmd

Pack of 5

Ti6Al4V

13-425413

A



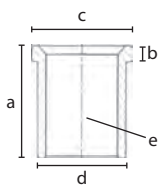
BFH 3.5 guide jacket for pilot drill 3.5mmd

Pack of 5

Ti6Al4V

13-425414

A



a) length

5 mm

b) hight 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



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



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



Surgical drill guide for safe BECES® placement. The drill sleeves are designed for 2.0 mm Twist drills.

DRILLSTOP TRAY

Not suitable for dry heat sterilizers.



Description	REF	Price €
Drillstop A	13-500881	
Drillstop C	13-500883	
Drillstop F	13-500886	
Drillstop H	13-500888	
Drillstop K	13-500891	
Drillstop L	13-500892	
Drillstop M*	13-500893	
Drillstop N*	13-500894	
Drillstop O*	13-500895	
Drill DS 2.8	13-425005	
Drill DS 3.2	13-425007	
Drill DS 3.5	13-425009	
Drill DS 4.0	13-425011	
Drill DS 4.2	13-425013	
Drill DSL 2.8	13-425006	
Drill DSL 3.2	13-425008	
Drill DSL 3.5	13-425010	
Drill DSL 4.0	13-425012	
Drill DSL 4.2	13-425014	
Tray with content	13-60034-K	779.00

INSERTION TOOLS FOR SSO®, STO®, STW®

	Description	Type	Length	Index	for	REF	Pricekat.
	IT1 STO	long	20 mm	HT 1.25		13-425060	K
	IT2 STO	short	12 mm	HT 1.25		13-425061	K
	IT3 STO	medium	16 mm	HT 1.25		13-425063	K
	ITW SSO	contra-angle	23 mm			13-463110	K
	ITWH SSO	contra-angle / Hex*	23 mm			13-463111	K
	ITV	short	11 mm		SSO, STO	13-500850	C
	IT ITV	Ratchet adapter			Adapter zu ITV	13-500854	C
	Adapter	short / contra-angle	22 mm		ITV 500850	13-500851	C
	Adapter	long / contra-angle	32 mm		ITV 500850	13-500852	C
	Adapter	medium / contra-angle	27 mm		ITV 500850	13-500853	C
	HAS	square	85 mm		ITV	13-463108	H
	IT TCA	long	20 mm	direct	SA STI, TCA STI	13-425065	D
	Tool E	long	20 mm	direct	TB2 STI, TB3 STI TB3 STW	13-462377	D
							
							

* This instrument is with an additional 6-edge for force transmission to the contra-angle handpiece equipped. Fits to W&H contra-angle handpiece only.

INSTRUMENTS FOR SCREWS

	Description	Type	Length	Ø	Code	REF	Pricekat.
	Hex-Instrument	long	21 mm	1.25 mm	HT 1.25	13-425100	C
	Hex-Instrument	long, for contra-angle	26.1 mm	1.25 mm	HT 1.25 M	13-425112	B
	Hex-Instrument	short	14 mm	1.25 mm	HTS 1.25	13-425101	C
	Hex-Instrument	extralong	45 mm	1.25 mm	HTX 1.25	13-425102	C
	Hex-Instrument	long	19 mm	1.77 mm	HT 1.77	13-425103	C
	Hex-Instrument	long, for contra-angle	28.6 mm	1.77 mm	HT 1.77 M	13-425113	B
	Hex-Instrument	extra long	45 mm	1.77 mm	HTX 1.77	13-425104	C
	Torx-Instrument	for SSO and STO Abutments	21 mm	1.25 mm	TT 1.25	13-425105	C

TOOLS

	Description	Type	Code	REF	Price cat.
	Guide jacket	for pilot drill, Titanium, 10 mm, 2.2 mm Ø	BFH	13-425401	A
	X-ray measuring sphere	Surgical steel, 0.5 mm Ø	RM	13-425403	A
	Drill extension contra-angle	extends by 19 mm	DX2	13-500704	D
	Punch	for contra-angle, 4.9 mm Ø	PUW1	13-425404	C
	Punch	manual, 5.2 mm Ø	PU	13-425406	C
	Standardized probe	Scale 1 mm for radiographical measuring for cylindrical implant types, 22 mm	PDG	13-425400	A
	HAS	Flat spanner for ITV, Vierkant, 85 mm	HAS	13-463108	H
	HAS2	Flat spanner for TB3 STI, 85 mm	HAS2	13-463109	H
	Ratchet	angled, for all Hex-Instruments and Insertion Tools	RAT 2	13-425051	K
	Torque wrench	Torque wrench 10 - 70 Ncm for all Insertion Tools, Hex- and Torx-instruments	TW 2	13-425402	S

STARTER TRAY

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



Description	REF	Price €
IT3 STO	13-425063	
ITWH SSO	13-463111	
HT 1.25	13-425100	
TT 1.25	13-425105	
BCD 1	13-900240	
DS 2.2	13-425003	
DS 2.8	13-425005	
DS 3.5	13-425009	
DS 4.2	13-425013	
DRA 4.1 CS	13-425047	
PDG	13-425400	
PDG	13-425400	
TW2	13-425402	
Starter Tray with content	13-560042-K	upon request
Starter Tray empty	13-60042-K	upon request

IMPLANT SYSTEM FOR ENDOSSEOUS DENTAL IMPLANTATIONS



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

The surface of **Bone Level Plus®** 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. **Bone Level Plus®** implants are universally applicable for fixed and removable prosthetics.

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.

Bone Level Plus® implants are protected by patents. Bone Level Plus® is a registered trademark.

In case that implants would be reprocessed (cleaned, resterilized) infections could occur, because no validated procedures for reprocessing are available.

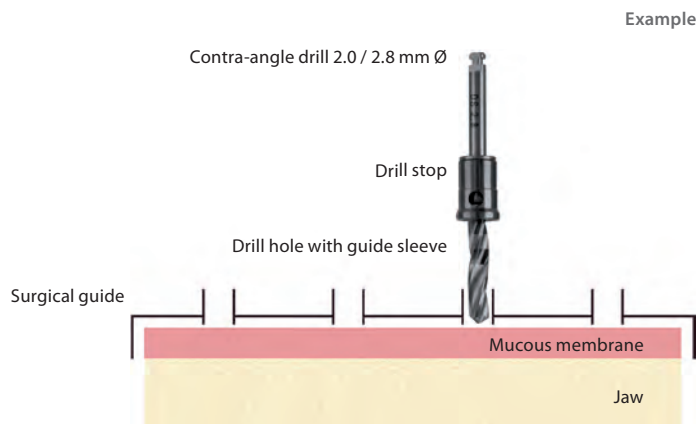
PREPARATORY STEPS WHEN USING A DRILLING TEMPLATE

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 \varnothing 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.

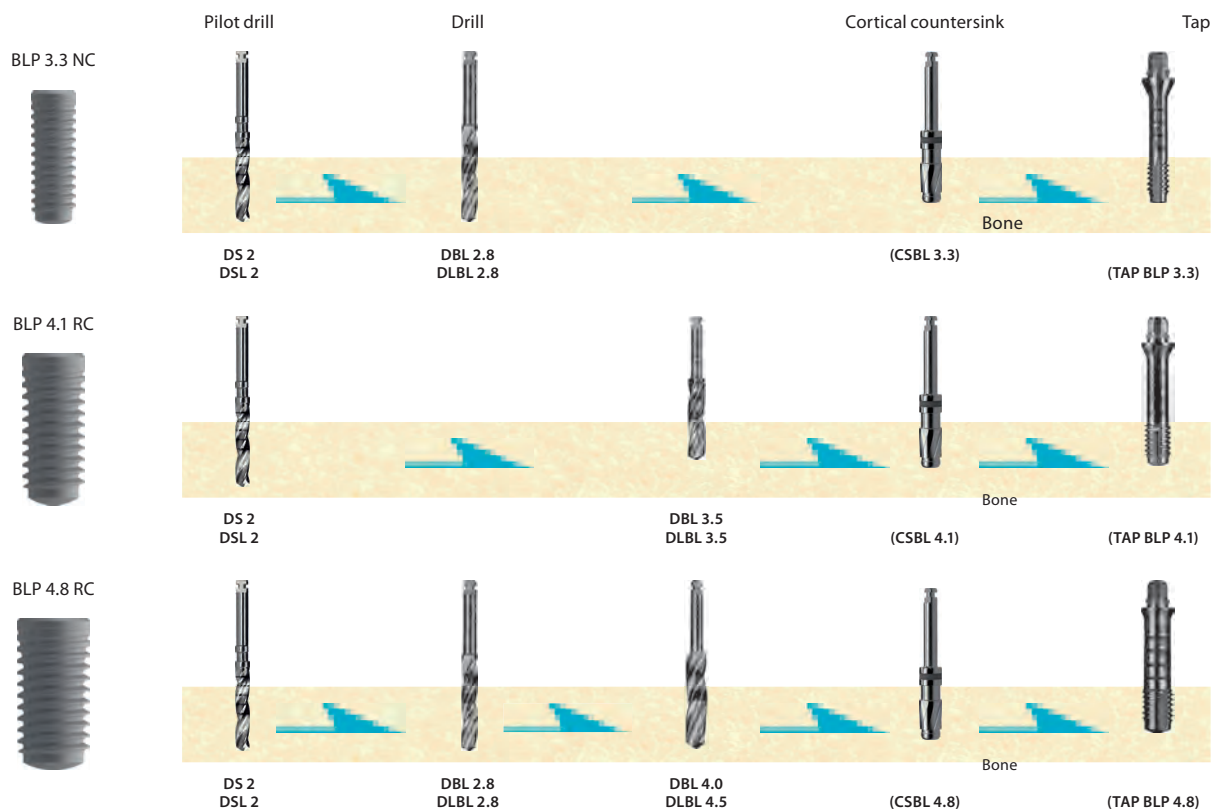
Recommended RPM: 2000-5000

Apply sufficient cooling and allow the cooling to reach the working blades of the drills.



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.

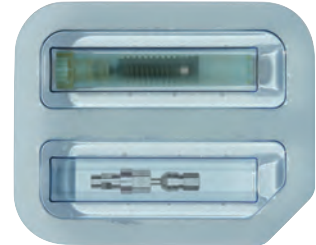
2. Implant packaging



Original packaging



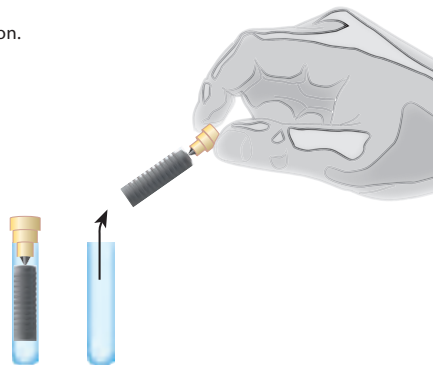
Open the blister using the flap. Remove the label and stick it into the patients record.



The blister (secondary packaging) contains the implant in a sterile tube (primary package).

3. Remove the implant from its packaging

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

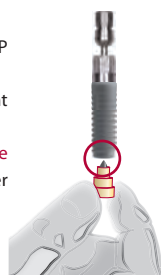
4.1 Connect

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

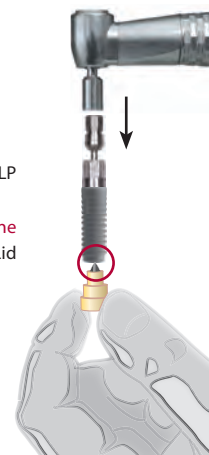
Place the ITV Wst (angled handpiece) or ITV (ratchet) adapter on the ITV BLP placement aid. Mount the placement aid. Hold the cap firmly in one hand and break off the implant at the pre-determined breaking line.

Insertion tool ITV BLP
 Bone Level Plus® implant
 Pre-determined break line
 Lid with implant holder



Insertion tool ITV BLP

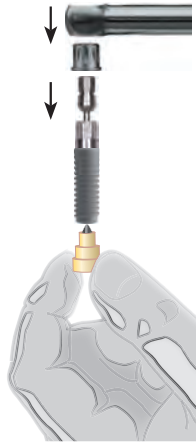
Pre-determined break line
 Lid



4.3 Alternative to 4.2:

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

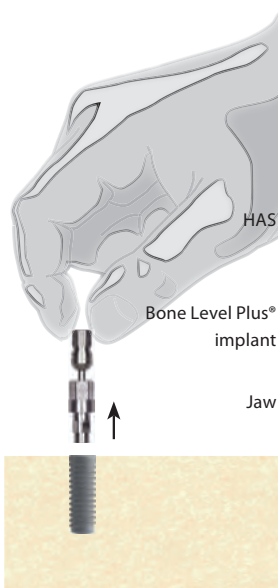
Mount the placement aid. Hold the cap firmly in one hand and break off the implant at the pre-determined breaking line.



6. Remove insertion tool from implant

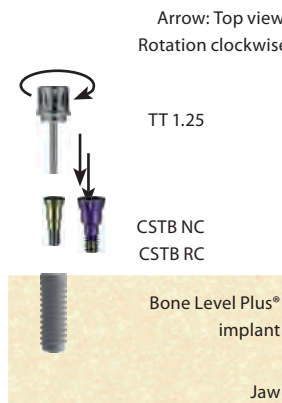
The insertion tool may be retrieved from the implant with the help of the contra-angle instrument.

As an alternative use the ratchet RAT2 + IT ITV + HAS (flat spanner).



8. Aftercare

Seal the implant with a matching cover screw.

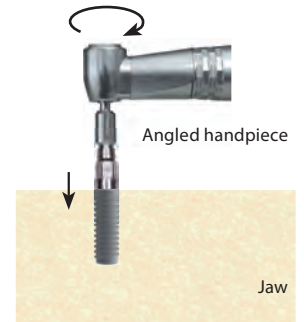


5. Insertion

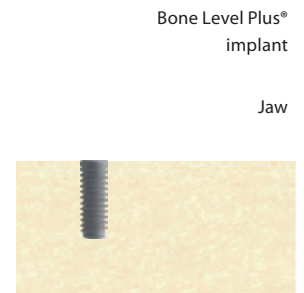
Use the angled handpiece, ratchet or shank to screw the implant into the implant bed (clockwise).

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).

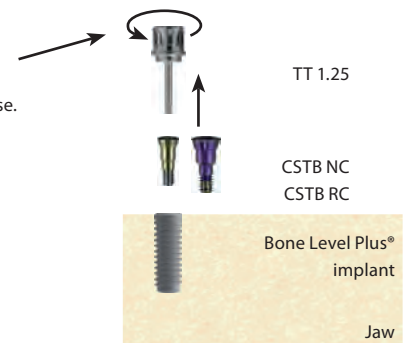


7. Result



After healing time: Remove surgical screw.

Arrow: Top view. Rotation counter clockwise.



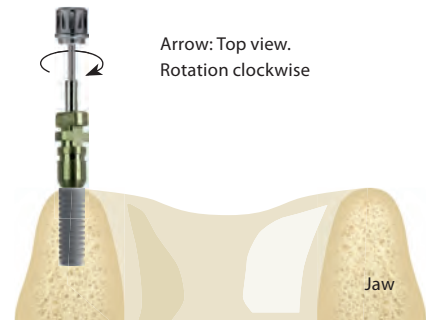
9. Pick-up impressions

9.1 Impression with perforated custom tray

Torx-instrument TT 1.25

Insert impression posts
HLT B NC/RC

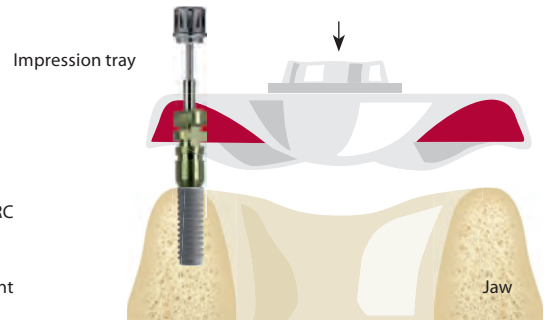
Bone Level Plus® implant



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 BLP NC/RC impression post from the implant to be able to take out the impression tray.



9.3 Taking the impression

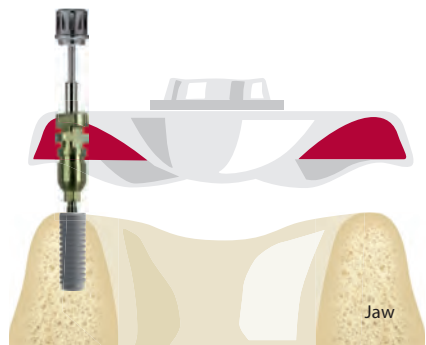
Detach the HLT BLP NC/RC from the implant.
HLT BLP NC/RC will stay within the impression.

Use TT 1.25 to loosen screw

Relief window in the
impression tray

HLT B NC/RC

Bone Level Plus® implant

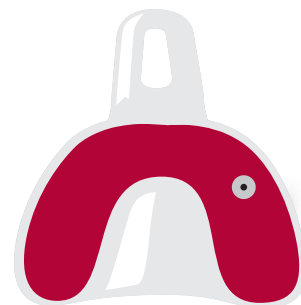


9.4

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

Position of the Impression post

Impression material



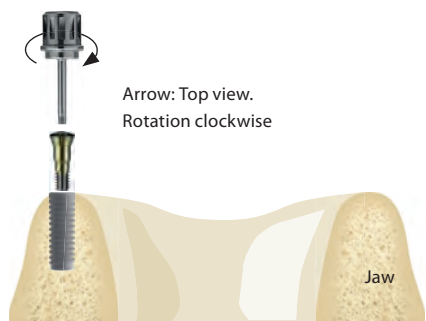
9.5

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

Bone Level Plus® implant



10. Closed tray impression taking

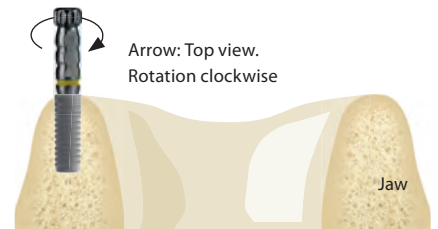
10.1 Impression with closed tray

Impression with custom tray.

Securing the impression post with the thumbscrew

TS B NC/RC

Bone Level Plus® implant



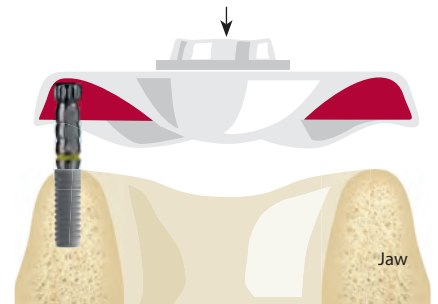
10.2 Before taking the impression

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 BLP NC/RC will always remain on the implant when removing the impression.

Impression post TS B NC/RC

Bone Level Plus® implant

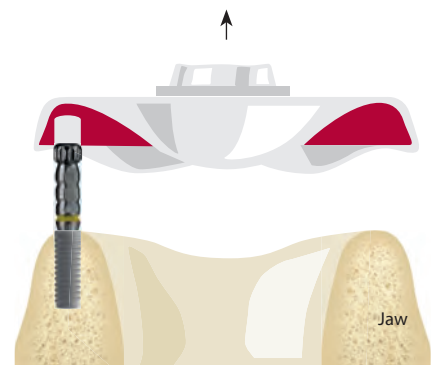


10.3 Removing the impression

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

Impression post TS B NC/RC

Bone Level Plus® implant



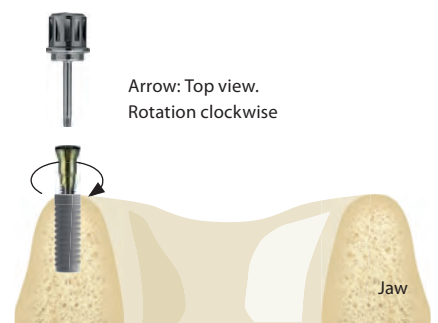
10.4

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

Bone Level Plus® implant



11. Procedures in the laboratory

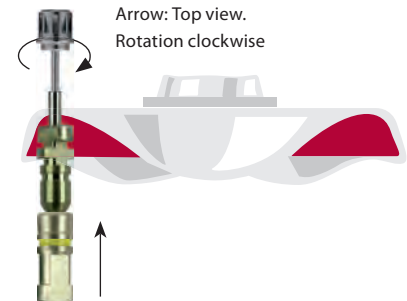
11.1 Preparing the impression tray for fabricating the cast

Pick-up technique Tighten the IAB or M analogue IABM against the LTB (NC/RC) impression post.

Use the TT 1.25 to insert the lab analogue

HLTB NC/RC

IAB NC or IAB RC



11.2 Closed technique

Secure the IAB or M analogue or IAB NC/RC against the TS BLP (NC or RC) **(A)**

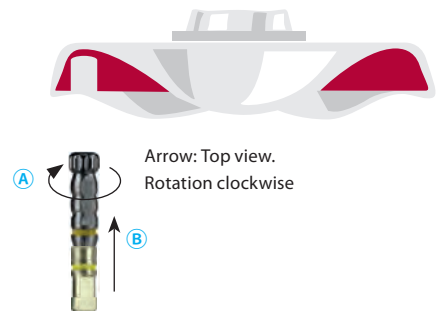
Reposition the impression post inside the impression **(B)**

Pour the impression.

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

TSB NC/RC

IAB NC or IAB RC

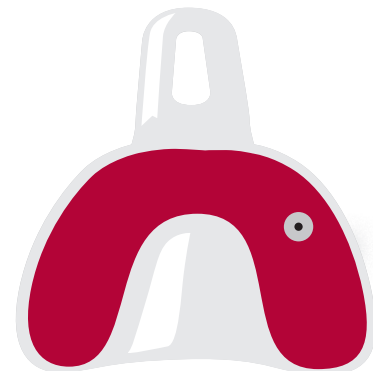


11.3

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

Lab analogue

Fill with gypsum



11.4

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

IAB NC/RC



11.5

Positioning of the screw-retained TLA2 15 BLP RC abutment, determining its optimal position and correct angulation.

NOTE The hexagon must be inserted completely into the analogue.

TT 1.25

Insert screw

TLA2 15 BLP RC

Watch out for the correct hexagon position



IAB NC/RC

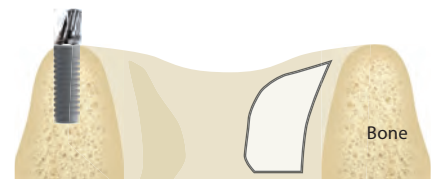


11.6

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

Tighten the implant screw to a torque of 20 Ncm.

TLA15 BLP RC

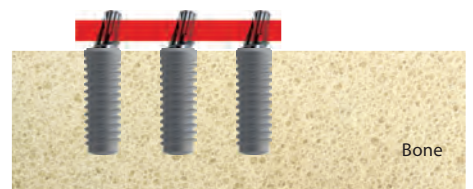


11.7

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.

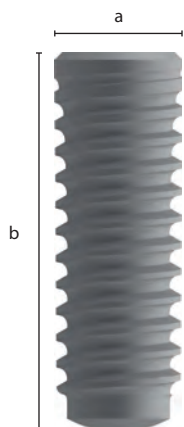
TLA2 15 BLP RC

Pattern Resin



BONE LEVEL PLUS® IMPLANTS

The surface is roughed. The implant body is made of Ti6Al4V.



a) enossal Ø 3.3 - 4.8 mm

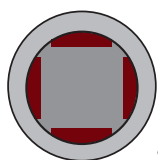
b) enossal length 8 - 14 mm

Description	Enossal Ø	Enossal length	REF	Price cat.
BLP 3.3 8 NC	3.3 mm	8 mm	13-900500	H
BLP 3.3 10 NC	3.3 mm	10 mm	13-900501	H
BLP 3.3 12 NC	3.3 mm	12 mm	13-900502	H
BLP 3.3 14 NC	3.3 mm	14 mm	13-900503	H
BLP 4.1 8 RC	4.1 mm	8 mm	13-900504	H
BLP 4.1 10 RC	4.1 mm	10 mm	13-900505	H
BLP 4.1 12 RC	4.1 mm	12 mm	13-900506	H
BLP 4.1 14 RC	4.1 mm	14 mm	13-900507	H
BLP 4.8 8 RC	4.8 mm	8 mm	13-900508	H
BLP 4.8 10 RC	4.8 mm	10 mm	13-900509	H
BLP 4.8 12 RC	4.8 mm	12 mm	13-900510	H
BLP 4.8 14 RC	4.8 mm	14 mm	13-900511	H

Max. insertion torque 35 Ncm

NC = Narrow Collar

RC = Regular Collar














Square drive

BLP® implants are delivered incl. insertion tool ITV BLP and surgical screw REF 13-900518 or 13-900519.





- 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

GINGIVAFORMER



	Description	Code	REF	Price cat.
	Gingivaformer conical	GF NC 3.6 2	13-900590	B
	Gingivaformer conical	GF NC 3.6 3.5	13-900591	B
	Gingivaformer conical	GF NC 4.8 3.5	13-900594	B
	Gingivaformer conical	GF RC 4.5 2	13-900596	B
	Gingivaformer conical	GF RC 4.5 4	13-900597	B
	Gingivaformer conical	GF RC 4.5 6	13-900598	B
	Gingivaformer conical	GF RC 6 2	13-900599	B
	Gingivaformer bottle shape	GFB NC 3.3 3.5	13-900602	B
	Gingivaformer bottle shape	GFB NC 3.3 5	13-900603	B
	Gingivaformer bottle shape	GFB RC 4.4 4	13-900604	B
	Gingivaformer bottle shape	GFB RC 4.7 6	13-900605	B

BUR CYLINDER

	Description	Code	REF	Price cat.
	Bur cylinder for BLP 3.3 for telescope crowns	FZB NC	13-900524	D
	Bur cylinder for BLP 4.1 and 4.8 for telescope crowns	FZB RC	13-900527	D

Recommended insertion torque 30 Ncm

ANALOGUES

	Description	Code	REF	Price cat.
	Implant analogue for BLP 3.3	IA BLP NC	13-900525	B
	Implant analogue for BLP 4.1 and 4.8	IA BLP RC	13-900526	B

STANDARD ABUTMENTS



Description	Code	REF	Price cat.
Abutment for cementing on BLP 3.3, step 1 mm high Hight above step 4 mm, incl. matching screw SFBC NC	CAB 1 NC	13-900554	E
Abutment for cementing on BLP 4.1 und 4.8, step 1 mm high Hight above step 5.5 mm, incl. matching screw SFBC RC	CAB 1 RC	13-900551	E
Abutment for cementing on BLP 3.3, step 3 mm high Hight above step 4 mm, incl. matching screw SFBC NC	CAB 3 NC	13-900555	E
Abutment for cementing on BLP 4.1 und 4.8, step 3 mm high Hight above step 5.5 mm, incl. matching screw SFBC RC	CAB 3 RC	13-900552	E

Recommended insertion torque 20 Ncm

SCREW-RETAINED ABUTMENTS (REDUCIBLE, GRINDABLE)



Description	Code	REF	Price cat.
Abutment Incl. matching screw SF B	TAB BLP NC/RC	13-900521	D
Abutment for BLP 3.3 15° angle, anti-rotational Incl. matching screw SF B NC	TLA2 15 BLP NC	13-900528	F
Abutment for BLP 4.1 und 4.8 15° angle, anti-rotational Incl. matching screw SF B NC	TLA2 15 BLP RC	13-900523	F

Recommended insertion torque 20 Ncm

ANATOMICAL ABUTMENTS



Description	Code	REF	Price cat.
Anatomical abutment for BLP 3.3 Incl. matching screw SFB NC	ANAB NC	13-900544	F
Anatomical abutment for BLP 4.1 and 4.8 Incl. matching screw SFB RC	ANAB RC	13-900543	F

Recommended insertion torque 20 Ncm

TITAN BASE FOR CAD CAM

**Description**

MB BLP NC, anti-rotation

REF

13-900560

Price cat.

D

MB BLP RC, anti-rotation

13-900562

D

CASTABLE ABUTMENTS



NC

Description

Castable abutment incl. metal base and screw

Material

Ti6Al4V

Code

PLAB BLP NC

REF

13-900620

Price cat.

D



RC

Castable abutment incl. metal base and screw

Ti6Al4V

PLAB BLP RC

13-900622

D

PICK-UP IMPRESSION POST FOR PICK-UP IMPRESSIONS

**Description**

Impression post for BLP 3.3

Code

HLT BLP NC

REF

13-900584

Price cat.

C



Impression post for BLP 4.1 and 4.8

HLT BLP RC

13-900585

C

IMPRESSION POST FOR CONVENTIONAL IMPRESSIONS

**Description**

Impression post for BLP 3.3

Code

TS BLP NC

REF

13-900586

Price cat.

C



Impression post for BLP 4.1 and 4.8

TS BLP RC

13-900587

C



Impression post long for BLP 3.3

TSL BLP NC

13-900588

C



Impression post long for BLP 4.1 and 4.8

TSL BLP RC

13-900589

C

ABUTMENTS FOR SCREW-ON PROSTHETIC



Description	Code	REF	Price cat.
TCT BLP RC 0.5	TCT BLP RC 0.5	13-900632	D
TCT BLP RC 1.5	TCT BLP RC 1.5	13-900633	D
TCT BLP RC 3.5	TCT BLP RC 3.5	13-900634	D
TCT BLP NC 0.5	TCT BLP NC 0.5	13-900635	D
TCT BLP NC 1.5	TCT BLP NC 1.5	13-900636	D
TCT BLP NC 3.5	TCT BLP NC 3.5	13-900637	D

Fasten with HT 1.77

IMPRESSION TAKING AND LABORATORY ACCESSORIES

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



Transfer post

Long screw

TCT-analogue

Castable abutment,
12 mm high.
Round inside.
5 pieces/pack

Castable abutment,
12 mm high.
Edged inside.
5 pieces/pack

Fastening
screw

Code	TST	SFL	BTT	PSTR (grey)	PSTA	SF
REF	13-418147	13-420428	13-418100	13-418124	13-418123	13-418151
Price cat.	B	A	B	B	B	B

LOCALICER® FOR REMOVABLE PROSTHETIC

LOC abutments are mounted with the tool HT 1.77. LOC abutments are used for connection of removable prosthetics with Bone Level Plus® implants. If LOC abutments (or KOC LOC implants) are used in the upper jaw, we recommend to place at least six implants and to splint them through prosthetics in a stable manner.



Description	Hight	Code	REF	Price cat.
Localicer® for BLP 3.3	2 mm	LOC BLP NC 2	13-900539	D
Localicer® for BLP 4.1 und 4.8	2 mm	LOC BLP RC 2	13-900540	D
Localicer® for BLP 3.3	3 mm	LOC BLP NC 3	13-900606	D
Localicer® for BLP 3.3	4 mm	LOC BLP NC 4	13-900607	D
Localicer® for BLP 4.1 and 4.8	3 mm	LOC BLP RC 3	13-900608	D
Localicer® for BLP 4.1 and 4.8	4 mm	LOC BLP RC 4	13-900609	D

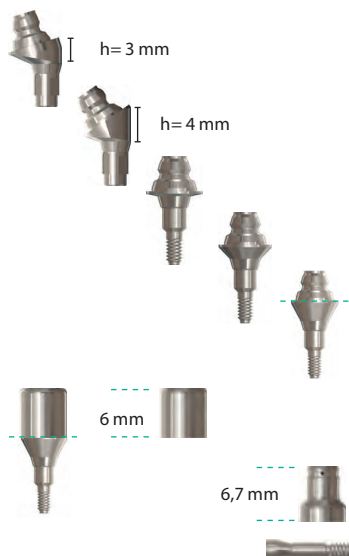
ACCESSORIES FOR LOCALICER®



Description	Code	REF	Price cat.
Analog + impression cap Set	AA LOC	13-462337	C
Set with 5 Caps + 1 Housing (EXTERNAL PRODUCT)	NCS	13-462338	D
Pull off force Yellow 600 g, Pink 1.200 g, Clear 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.
MU2 17 BLP RC, angled, incl. SFB RC	Ti6Al4V	MU2 17 BLP RC	13-900640	L
MU2 35 BLP RC, angled, incl. SFB RC	Ti6Al4V	MU2 35 BLP RC	13-900641	L
MU2S 0.5 BLP RC, straight	Ti6Al4V	MU2S 0.5 BLP RC	13-900642	G
MU2S 1.5 BLP RC, straight	Ti6Al4V	MU2S 1.5 BLP RC	13-900643	G
MU2S 2.5 BLP RC, straight	Ti6Al4V	MU2S 2.5 BLP RC	13-900644	G
GF MU2 gingivaformer incl. SF MU2 Hight above abutment shoulder 6 mm	Ti6Al4V	GF MU 2	13-418286	C
MU2 Localicer incl. SF MU2 Hight above abutment shoulder 6.7 mm	Ti6Al4V	MU 2	13-418287	C
Prosthetic screw for MU2	Ti6Al4V	SFB RC	13-900532	A

ACCESSORIES FOR MULTI-UNIT ABUTMENTS

	Description	Material	Code	REF	Price cat.
	Temporary base SF MU2 sold separately	Ti6Al4V	TC MU2	13-418290	D
	Transfer straight incl. screw SFL MU2	Ti6Al4V	TS MU2	13-418291	C
	Castable for Multi-Unit incl. screw		PA MU2	13-418292	A
	Screw for TC MU2	Ti6Al4V	SF MU2	13-418293	B
	Lab analogue for Multi-Unit	Ti6Al4V	IA MU2	13-418295	B
	Hex instrument long, Ø 1.25 mm		HT 1.25	13-425100	C
	Hex instrument extralong, 45 mm, Ø 1.25 mm		HTX 1.25	13-425102	C
	Hex instrument for suprastructures, Ø 1.77 mm		HT 1.77	13-425103	C

INSTRUMENTS

	Description	Code	REF	Price cat.
	Pilot drill short/long 2.0 mm Ø	DS 2 / DSL 2	13-425001 / 13-425002	D
	Pilot drill short/long 2.8 mm Ø	DS 2.8 / DSL 2.8	13-425005 / 13-425006	D
	Form drill short 2.8 mm Ø	DBL 2.8	13-900570	E
	Form drill short 3.5 mm Ø	DBL 3.5	13-900571	E
	Form drill short 4.0 mm Ø	DBL 4.0	13-900572	E
	Cortical countersink 3.3	CSBL 3.3	13-900576	D
	Cortical countersink 4.1	CSBL 4.1	13-900577	D
	Cortical countersink 4.8	CSBL 4.8	13-900578	D
	Tap	TAP BLP 3.3	13-900579	D
	Tap	TAP BLP 4.1	13-900580	D
	Tap	TAP BLP 4.8	13-900581	D

GUIDE JACKET

**Description**

BFH 2.0 guide jacket for pilot drill 2.0mm

Amount

Pack of 5

Material

Ti6Al4V

REF

13-425410

Price cat.

A



BFH 2.5 guide jacket for pilot drill 2.5mm

Pack of 5

Ti6Al4V

13-425411

A



BFH 3.0 guide jacket for pilot drill 3.0mm

Pack of 5

Ti6Al4V

13-425412

A



BFH 3.2 guide jacket for pilot drill 3.2mm

Pack of 5

Ti6Al4V

13-425413

A



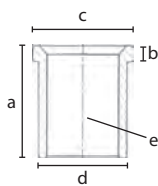
BFH 3.5 guide jacket for pilot drill 3.5mm

Pack of 5

Ti6Al4V

13-425414

A



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



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






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










Surgical drill guide for safe BECES® placement. The drill sleeves are designed for 2.0 mm Twist drills.

ADAPTER

	Description	For	Length	Code	REF	Price cat.
	Adapter short / contra-angle	ITV 500850	22 mm	ITV S WST	13-500851	C
	Adapter long / contra-angle	ITV 500850	32 mm	ITV L WST	13-500852	C
	Adapter medium / contra-angle	ITV 500850	27 mm	ITV M WST	13-500853	C
	Ratchet adapter	Adapter zu ITV		ITV	13-500854	C
	Drill extension, contra-angle, extends by 19 mm			DX2	13-500704	D

INSTRUMENTS AND TOOLS

	Description	Type	REF	Price cat.
	Ratchet RAT2	For all Hex-instruments and insertion tools	13-425051	K
	TW 2 *	Torque ratchet, 10 - 70 Ncm. For all insertion tools, Hex- and Torx instruments	13-425402	S
	Handgrip	Self locking **	13-311431	V
	TT 1.25	Torx-Instrument (for all screws)	13-425105	C
	TT 1.25 M	Torx-instrument (all screws) for contra-angle	13-425115	C
	HAS	Flat spanner	13-463108	H
	HT 1.77	Hex-instrument, long	13-425103	C
	HTX 1.77	Hex-instrument, extralong	13-425104	C
	PUW1	Punch	13-425404	C

* It is recommended to have the torque ratchets recalibrated by us once a year.

** for cleaning this instrument an ultrasonic cleaning device and a thermo-desinfector (i.e. Miele TD-series) are required. If these devices are not available in the dental office the handle with REF 311430 should be purchased instead.

STARTER TRAY



Description	REF	Price €
ITV S adapter short	13-500851	
ITV M	13-500852	
ITV ITV	13-500854	
TT 1.25	13-425105	
CSBL 3.3	13-900576	
CSBL 4.1	13-900577	
CSBL 4.8	13-900578	
DS 2.0	13-425001	
DBL 2.8	13-900570	
DBL 3.5	13-900571	
DBL 4.0	13-900572	
TAP BLP 3.3	13-900579	
TAP BLP 4.1	13-900580	
TAP BLP 4.8	13-900581	
TW2 torque wrench	13-425402	
Starter Tray empty	13-60045-K	upon request
Starter Tray with content	13-560045-K	upon request

SURGICAL INSTRUMENT TRAY



Description	REF	Price €
DS 2	13-425001	
DBL 2.8	13-900570	
DBL 3.5	13-900571	
DBL 4.0	13-900572	
DLBL 2.8	13-900573	
DLBL 3.5	13-900574	
DLBL 4.0	13-900575	
PDG	13-425400	
PDG	13-425400	
PDG	13-425400	
CSBL 3.3	13-900576	
CSBL 4.1	13-900577	
CSBL 4.8	13-900578	
TAP BLP 3.3	13-900579	
TAP BLP 4.1	13-900580	
TAP BLP 4.8	13-900581	
ITV	13-500854	
ITV S adapter short	13-500851	
ITV M adapter medium	13-500853	
ITV L adapter long	13-500852	
UAW	13-425107	
PUW 1	13-425404	
TT 1.25	13-425105	
DX 2	13-500704	
TW2 torque wrench	13-425402	
Starter Tray empty	13-60018-K	upon request
Starter Tray with content	13-S60018-K	upon request

IMPLANT SYSTEM FOR ENOSSAL DENTAL IMPLANTATIONS



Anti-rotation through
precision internal hexagon
& two telescoping areas

Excellent stability in all
bone qualities

Universal application for
permanent and removable
prosthodontics

Endosseous surface
ultra-rough

The Allfit® implant system **Xign®** is designed for enossal dental implantations. **Xign®** implants feature two high-precision internal cylindrical guides and hexagon. Implants with diameter 3.0 and 3.4 are not indicated for single tooth replacement. The **Xign®** implant system is suitable for dual-step implantation protocols. **Xign®** accessory parts are colour coded.

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.

Xign® implants are patent-protected. Xign® is a registered trademark.

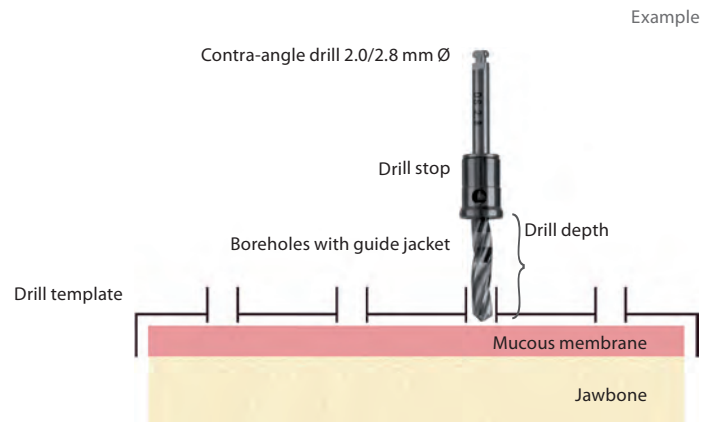
In case that implants would be reprocessed (cleaned, resterilized) infections could occur, because no validated procedures for reprocessing are available.

PRELIMINARY WORK FOR TEMPLATE APPLICATION

1. Ask your laboratory to prepare a drill template with boreholes for the pilot drill. To be on the safe side, you can ask the laboratory to insert guide sleeves (code BFH) into the template, which specify the exact drill direction. Please use a 2.0 Ø drill for the pilot drilling.
2. For the following drill sequences you can use drill stops, which can be attached and tightened to the drill according to the length of the drilling channel. Mucous membrane thickness and template height are taken into account as needed. Due to the extreme high cutting performance of our drills after the pilot drill the final drill may be used right away. In this case the drill sequence may be disregarded.

Recommended RPM: 2000-5000

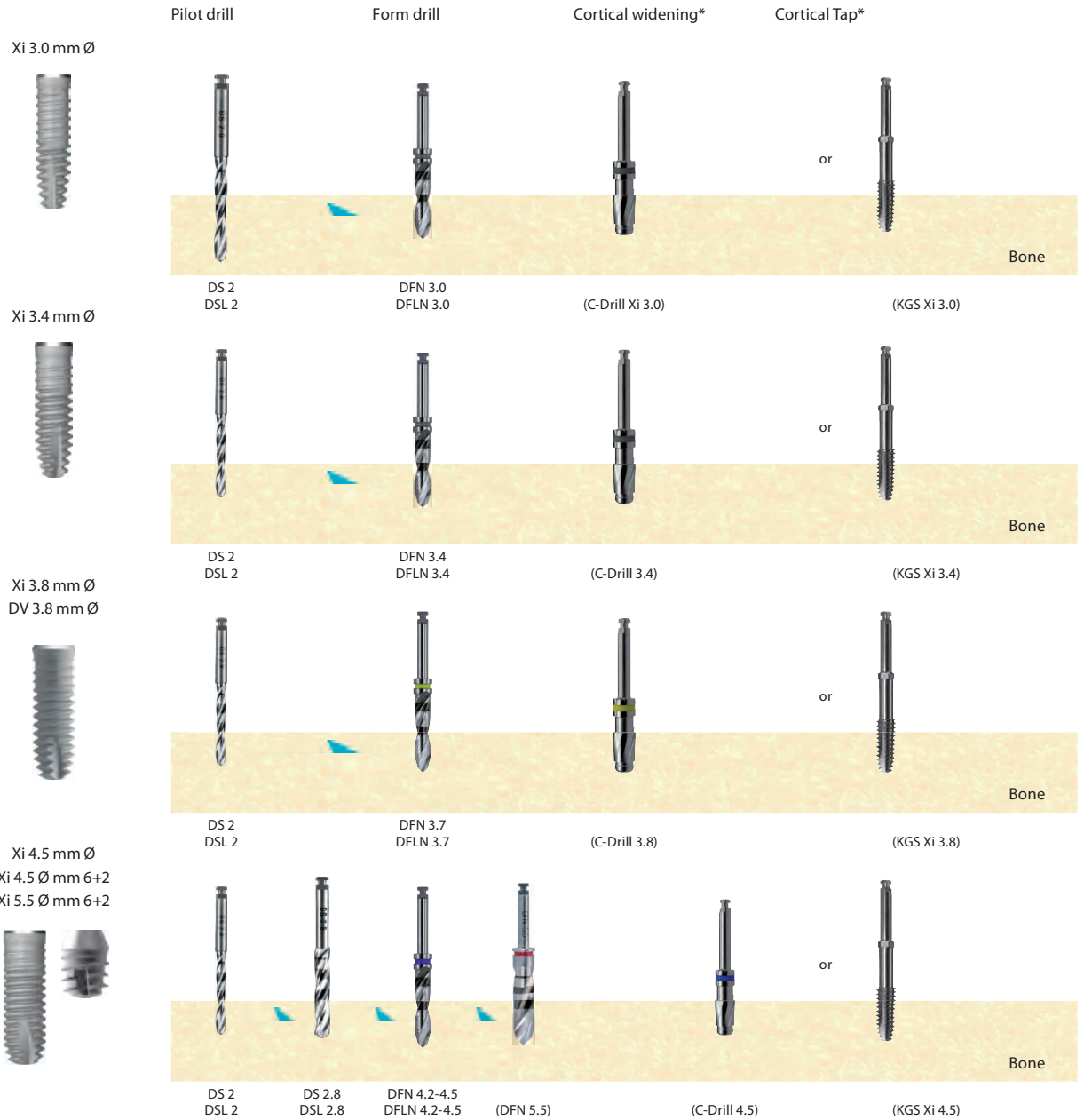
Apply sufficient cooling and allow the cooling to reach the working blades of the drills.



GENERAL NOTE Xign® implants with diameter 4.5 mm and larger are used as compression screws. In order to achieve a good bone condensation and implant stability, the drilling should be carried out thinner than the core diameter of the implant. The minimal diameter of the drill depends on the bone density. It is therefore not possible to advise drill-sequences which fit all bone-qualities. Typically in the soft maxillary bone only small drill-diameters are used (e.g. the usage of DOS1 only for larger Xign® implants), whereas in the highly mineralized lower jaw a specific drill sequence with respect to the mineralisation of the bone is necessary. For insertion under pressure use the handgrip.

SURGERY

1. Recommended drill sequence (for contra-angle handgrip)



* For areas with hard cortical bone, enlargement using a C-drill or Cortical Tap (KGS) is recommended down to a cortical depth of up to 6 mm. Form drills create the bone cavity for the respective implant. The actual diameter of the form drill is not mentioned in its order code (REF), as the drill corresponds to the diameter of the implants core.

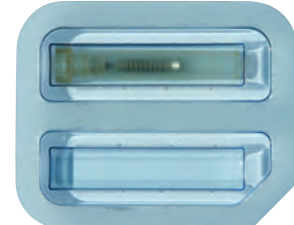
2. Implant packaging



Original packaging



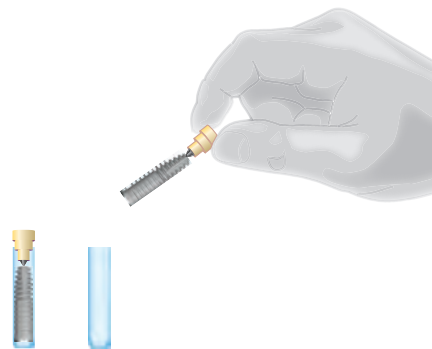
Open the blister using the flap. Remove the label and stick it into the patients record.



The blister (secondary packaging) contains the implant in a sterile tube (primary package).

3. Remove the implant from its packaging

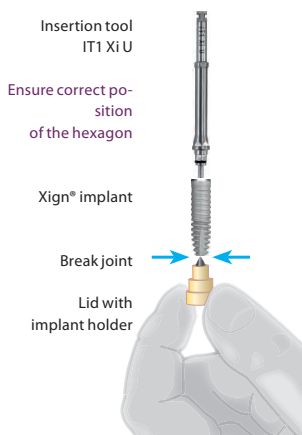
1. Open the lid.
2. The implant is fixed to the lid by a break joint.
3. Remove the implant without touching the inner wall of the tube.



4. Handling

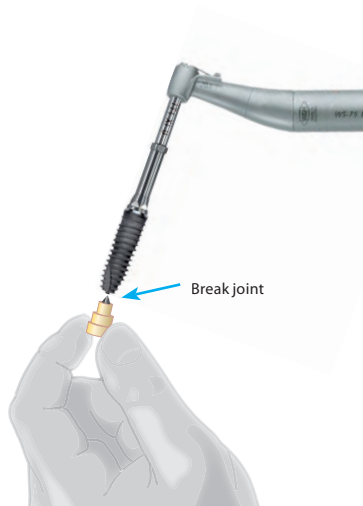
4.1 Connect

Attach the insertion tool to the implant by holding the lid, to which the implant is secured, with your other hand.



4.2

After you have attached the insertion tool, firmly hold the top in your hand and break the implant off the top along the break joint.



4.3

Using the contra-angle handpiece screw the implant clockwise into the cavity.

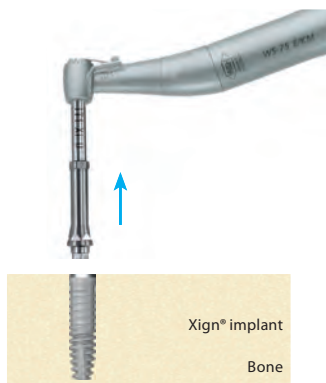
The enossal part of the implant must be completely covered by the bone. After insertion the implant can be turned by a 1/4 rotation backwards in order to relieve the bone and allow blood access to the implant surface.



5. Insertion

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

Pull insertion tool off the implant.



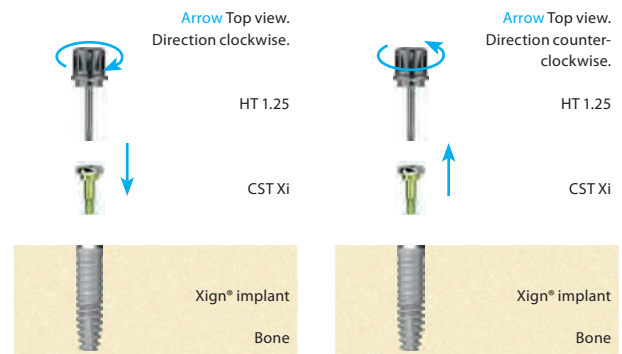
6. Result



7. Post-operative treatment

Seal the implant with a suitable cover screw.

After healing period: Remove cover screw.



Max. insertion torque

Xign 3.0 = 20 Ncm

Xign 3.4 = 30 Ncm

Xign 3.8 = 40 Ncm

8. Pick-up impressions

8.1 Impression taking using an individual impression tray

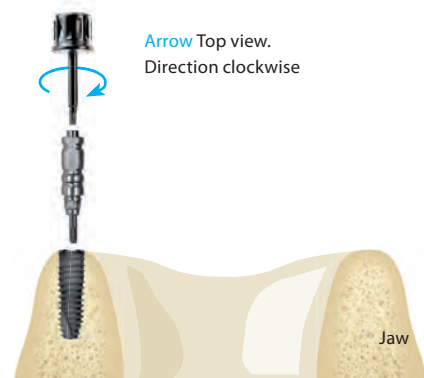
Hex-instrument HT 1.25

Arrow Top view.
Direction clockwise.

Fastening of the
impression post HLT Xi

Xign® implant

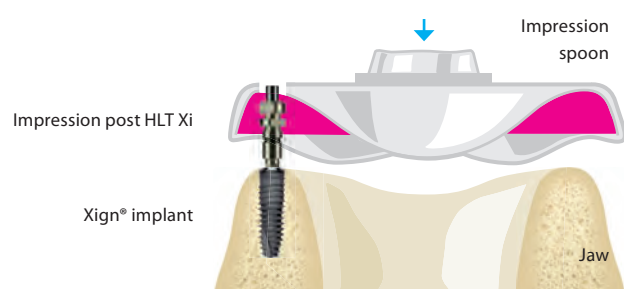
Jaw



8.2 Prior to the impression

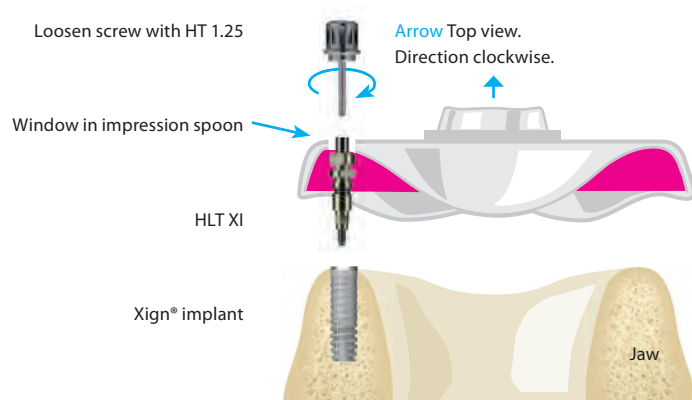
Impression taking with an A silicone. The use of open and closed impression tray is possible.

The impression post HLT Xi must be unscrewed from the implant before the impression tray is removed from the patient's mouth.



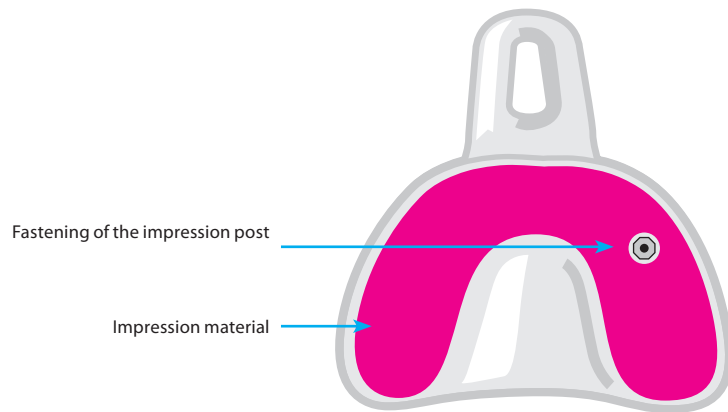
8.3 Remove impression

Disengage HLT Xi from the implant: HLT Xi remains in the impression.



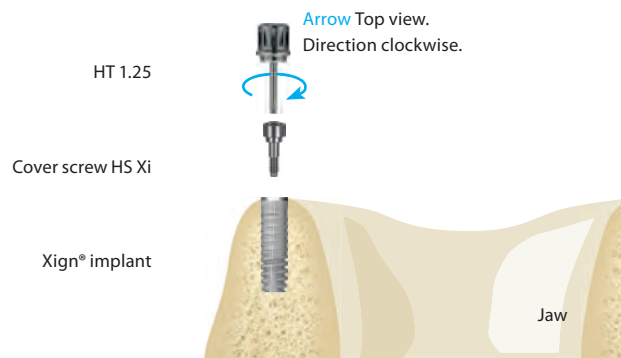
8.4

View of the impression post HLT Xi inside the impression (Pick up method, bottom view).



8.5

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



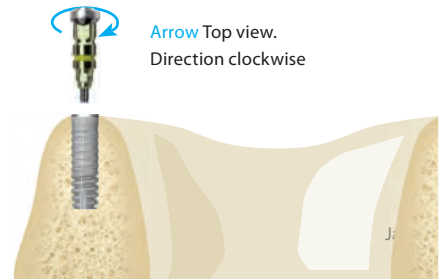
9. Impression taking with a closed impression spoon

9.1 Impression taking using an individual impression tray

Tighten the impression post with the top screw

TS(L) Xi

Xign® implant

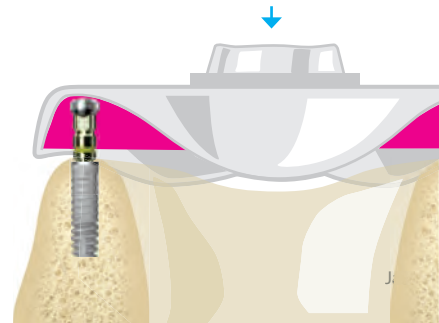


9.2 Prior to the impression

Impression taking with an A silicone The use of open and closed impression tray is possible.

Impression post
TS(L) Xi

Xign® implant



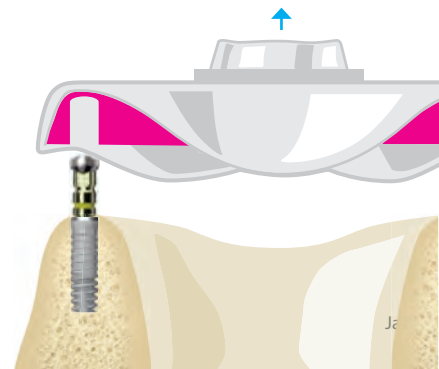
9.3 Remove impression

When the closed impression method is applied, then the impression post TS Xi remains on the implant after the impression tray is removed.

After removal of the impression tray the transferpost TS(L) Xi is unscrewed.

TS(L) Xi

Xign® implant



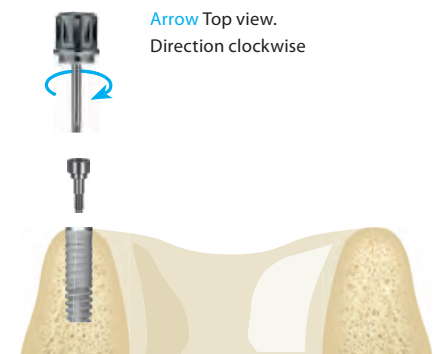
9.4

After the impression is taken, the implant is closed with a cover screw (i.e. Healing screw) and the impression is sent to the laboratory.

HT 1.25

Fasten Gingiva shaper HS Xi

Xign® implant



10. Preparation of the impression spoon for the model generation

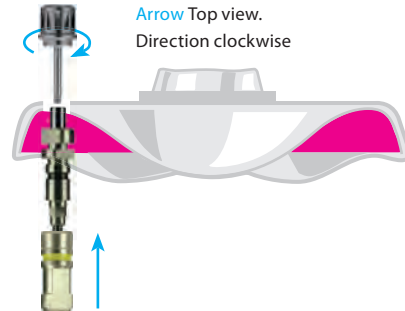
10.1 Pick-up method

Screw analogue or M-analogue against the impression post.

Fasten the laboratory analogue in the impression using HT 1.25

HLT Xi

IA Xi or M-Analogue to Xign®



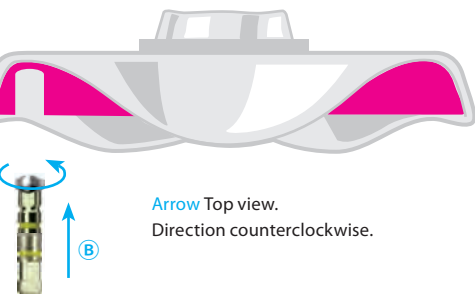
10.2 Closed method

Screw IA Xi or M analogue IA Xi against TS(L) Xi. Ⓐ Subsequently the impression post is repositioned in the impression. Ⓑ The impression can now be casted. In M analogues (IA Xi M) block the lower access to the lock screw out prior to casting.

Tighten the impression post onto the laboratory analogue using the topscrew

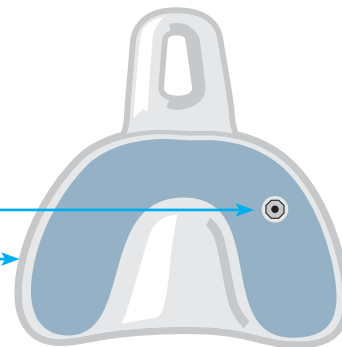
TS(L) Xi Ⓐ

IA Xi or IA Xi M



The impression is poured with impression putty. Afterwards the impression posts are unscrewed from the laboratory analogue.

Laboratory analogue
Pour impression putty in



10.3

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

IA Xi / IA Xi M
IA DV



10.4 Impression taking

Positioning of the screwed abutments TLA, whereupon the optimal position and adequate angulation must be determined.

Note The hexagon must be completely inserted into the analogue.

HT 1.25

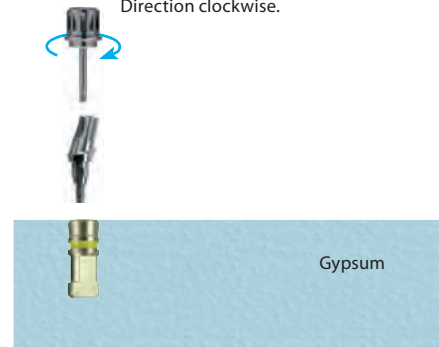
Tighten screw

TLA 15 Xi

Ensure proper position of the hexagon

IA Xi / IA Xi M

Arrow Top view.
Direction clockwise.



10.5

Ensure proper position of the abutment when transferring into the mouth.

Tightening torque of the screw during fastening on the implant: 15 Ncm

TLA 15 Xi



10.6

If more than one angled abutment is used, your laboratory will prepare a detachable synthetic bar (e.g. Pattern Resin) in order to facilitate positioning in the mouth.

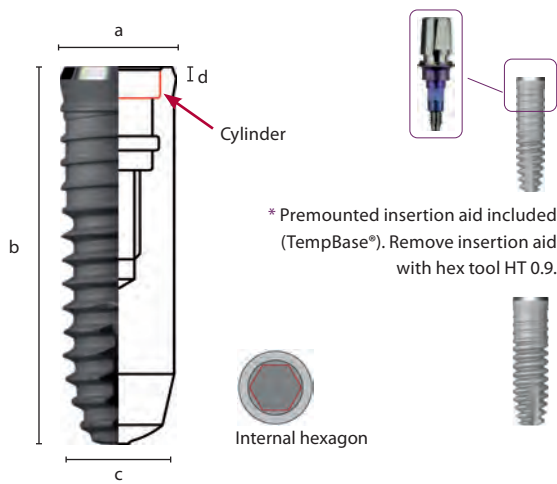
TLA 15 Xi

Pattern Resin



XIGN® IMPLANTS

Xign® implants feature two high-precision internal cylindrical guides and hexagon. Implants with diameter 3.0 and 3.4 are not indicated for single tooth replacement. Material Ti6Al4V.



	Description	enossal Ø	enossal length	REF
	Xi 3.0 11.5 *	3.0 mm	11.5 mm	13-422000
	Xi 3.0 13 *	3.0 mm	13 mm	13-422001
	Xi 3.0 15 *	3.0 mm	15 mm	13-422002
	Xi 3.4 8	3.4 mm	8 mm	13-422003
	Xi 3.4 10	3.4 mm	10 mm	13-422004
	Xi 3.4 11.5	3.4 mm	11.5 mm	13-422005
	Xi 3.4 13	3.4 mm	13 mm	13-422006
	Xi 3.4 15	3.4 mm	15 mm	13-422007
	Xi 3.8 8	3.8 mm	8 mm	13-422008
	Xi 3.8 10	3.8 mm	10 mm	13-422009
	Xi 3.8 11.5	3.8 mm	11.5 mm	13-422010
	Xi 3.8 13	3.8 mm	13 mm	13-422011
	Xi 3.8 15	3.8 mm	15 mm	13-422012
	Xi 4.5 6+2	4.5 mm	6 - 8 mm	13-422013
	Xi 4.5 8	4.5 mm	8 mm	13-422014
	Xi 4.5 10	4.5 mm	10 mm	13-422015
	Xi 4.5 11.5	4.5 mm	11.5 mm	13-422016
	Xi 4.5 13	4.5 mm	13 mm	13-422017
	Xi 4.5 15	4.5 mm	15 mm	13-422018
	Xi 5.5 6+2	5.5 mm	6 - 8 mm	13-422019









- a) max. head Ø 3.2 - 5.6 mm
 - b) enossal length 6 - 15 mm
 - c) enossal Ø 3.0 - 5.5 mm
 - d) polished edge 0.35 - 2 mm
- Xi 4.5 6+2 / Xi 5.5 6+2
Compatible abutment size = 3.8

For Implants with 3.0 mmd the max. torque for the prosthetic screw is **30 Ncm**.
For Implants with 3.4 mmd the max. torque for the prosthetic screw is **80 Ncm**.
For Implants with 3.8 mmd the max. torque for the prosthetic screw is **60 Ncm**.

COLOR CODING







CYLINDRICAL GINGIVAFORMER

	Description	Code	REF	Price cat.
	Gingivaformer 3.0 mm Ø, brown for 2 mm mucous membrane height	HS Xi 3.0 2	13-422304	B
	Gingivaformer 3.0 mm Ø, brown for 4 mm mucous membrane height	HS Xi 3.0 4	13-422305	B
	Gingivaformer 3.4 mm Ø, silver for 2 mm mucous membrane height	HS Xi 3.4 2	13-422306	B
	Gingivaformer 3.4 mm Ø, silver for 4 mm mucous membrane height	HS Xi 3.4 4	13-422307	B
	Gingivaformer 3.8 mm Ø, yellow for 2 mm mucous membrane height	HS Xi 3.8 2	13-422308	B
	Gingivaformer 3.8 mm Ø, yellow for 4 mm mucous membrane height	HS Xi 3.8 4	13-422309	B
	Gingivaformer 4.5 mm Ø, blue for 2 mm mucous membrane height	HS Xi 4.5 2	13-422310	B
	Gingivaformer 4.5 mm Ø, blue for 4 mm mucous membrane height	HS Xi 4.5 4	13-422311	B

ANATOMICAL GINGIVAFORMER

	Description	Hight/width	Code	REF	Price cat.
	Gingivaformer 3.0 mm Ø, brown Hight 4 mm, width at top 6 mm	h4w6	HS Xi 3.0	13-422480	B
	Gingivaformer 3.4 mm Ø, silver Hight 4 mm, width at top 6 mm	h4w6	HS Xi 3.4	13-422481	B
	Gingivaformer 3.8 mm Ø, yellow Hight 4 mm, width at top 6 mm	h4w6	HS Xi 3.8	13-422482	B
	Gingivaformer 4.5 mm Ø, blue Hight 4 mm, width at top 6 mm	h4w6	HS Xi 4.5	13-422483	B

SURGICAL SCREWS

	Description	Code	REF	Price cat.
	Surgical screw for 3.0 mm Ø brown	CST Xi 3.0	13-422300	B
	Surgical screw for 3.4 mm Ø silver	CST Xi 3.4	13-422301	B
	Surgical screw for 3.8 mm Ø yellow	CST Xi 3.8	13-422302	B
	Surgical screw for 4.5 mm Ø blue	CST Xi 4.5	13-422303	B

ABUTMENTS FOR CEMENTED PROSTHETICS

	Screw / REF	Description	H mucous membran	Color	REF	Price cat.
Straight	SF 2305	TLA Xi 3.0 2	2 mm	brown	13-422317	D
		TLA Xi 3.0 3	3 mm	brown	13-422318	D
		TLA Xi 3.0 5	5 mm	brown	13-422319	D
	SF 2301	TLA Xi 3.4 1	1 mm	silver	13-422320	D
		TLA Xi 3.4 2	2 mm	silver	13-422321	D
		TLA Xi 3.4 3	3 mm	silver	13-422322	D
		TLA Xi 3.4 5	5 mm	silver	13-422323	D
		TLA Xi 3.4 8	8 mm	silver	13-422324	D
		TLA Xi 3.8 1	1 mm	yellow	13-422325	D
		TLA Xi 3.8 2	2 mm	yellow	13-422326	D
		TLA Xi 3.8 3	3 mm	yellow	13-422327	D
		TLA Xi 3.8 5	5 mm	yellow	13-422328	D
		TLA Xi 4.5 1	1 mm	blue	13-422329	D
		TLA Xi 4.5 2	2 mm	blue	13-422330	D
		TLA Xi 4.5 3	3 mm	blue	13-422331	D
Angled 15°	SF 2302	TLA 15 Xi 3.4 1	1 mm	silver	13-422332	F
		TLA 15 Xi 3.4 2	2 mm	silver	13-422333	F
		TLA 15 Xi 3.4 3	3 mm	silver	13-422334	F
	SF 2302	TLA 15 Xi 3.8 1	1 mm	yellow	13-422335	F
		TLA 15 Xi 3.8 2	2 mm	yellow	13-422336	F
		TLA 15 Xi 3.8 4	4 mm	yellow	13-422337	F
		TLA 15 Xi 4.5 1	1 mm	blue	13-422338	F
		TLA 15 Xi 4.5 2	2 mm	blue	13-422339	F
		TLA 15 Xi 4.5 4	4 mm	blue	13-422340	F
		TLA 25 Xi 3.4 1	1 mm	silver	13-422460	F
Angled 25°	SF 2409	TLA 25 Xi 3.4 2	2 mm	silver	13-422461	F
		TLA 25 Xi 3.4 3	3 mm	silver	13-422462	F
		TLA 25 Xi 3.8 1	1 mm	yellow	13-422463	F
	SF 2409	TLA 25 Xi 3.8 2	2 mm	yellow	13-422464	F
		TLA 25 Xi 3.8 3	3 mm	yellow	13-422469	F
		TLA 25 Xi 3.8 4	4 mm	yellow	13-422465	F
		TLA 25 Xi 4.5 1	1 mm	blue	13-422466	F
		TLA 25 Xi 4.5 2	2 mm	blue	13-422467	F
TLA 25 Xi 4.5 4	4 mm	blue	13-422468	F		
		Castable abutment, plastic		PA U	13-418181	A

Tightening torque: For Xi 3.0 = 13 Ncm





For Xi 3.4, 3.8, 4.5 = 20 Ncm

Incl. screw


ABUTMENTS FOR ZIRKONIUM

	Description	Material	Code	REF	Price cat.
	Titanbasis for XI 3.0, antirotation	Ti6AlA4	MX B Xi 3.0	13-422473	D
	SF 2301 Titanbasis for XI 3.4, antirotation	Ti6AlA4	MX B Xi 3.4	13-422470	D
	Titanbasis for XI 3.8, antirotation	Ti6AlA4	MX B Xi 3.8	13-422471	D
	Titanbasis for XI 4.5, antirotation	Ti6AlA4	MX B Xi 4.5	13-422472	D
	Incl. screw SF 2301, insertion with HT 1.25				







IMPRESSION AND LAB ACCESSORIES FOR CEMENTED PROSTHETICS

	Description	Code	REF	Price cat.
	Impression post with top screw for manual operation, short	TS Xi 3.0 S	13-422345	C
		TS Xi 3.4 S	13-422346	C
		TS Xi 3.8 S	13-422347	C
		TS Xi 4.5 S	13-422348	C
	Impression post with long screw	HLT Xi 3.0	13-422349	C
		HLT Xi 3.4	13-422350	C
		HLT Xi 3.8	13-422351	C
		HLT Xi 4.5	13-422352	C
	Implant analogue with internal hexagon	IA Xi 3.0	13-422353	B
		IA Xi 3.4	13-422354	B
		IA Xi 3.8	13-422355	B
		IA Xi 4.5	13-422356	B
	Castable abutment, plastic	PA U	13-418181	A

ABUTMENTS FOR SCREW RETAINED RESTORATIONS

	OSA abutment		Code	REF	Price cat.
	Abutment for Xi 3.4, silver 2 mm transmucosal height	two part with screw	OSA Xi 3.4 2	13-422361	E
	Abutment for Xi 3.8, yellow, 2 mm transmucosal height	two part with screw	OSA Xi 3.8 2	13-422362	E
	Abutment for Xi 3.8, yellow, 2 mm transmucosal height	two part with screw	OSA Xi 3.8 4	13-422363	E
	Abutment for Xi 4.5, blue, 2 mm transmucosal height	two part with screw	OSA Xi 4.5 2	13-422364	E

IMPRESSION AND LAB ACCESSORIES

			or				or		
Code	TST STI	SF 365		SF 415	OA STI	PAOA		PAOR	SF 350
REF	13-420339	13-420938		13-420928	13-420340	13-420342		13-420343	13-SF 350
Description	Transfer post			Screw for connecting TST STI	Lab analogue for OSA	White castable abutments 10 mm high. Pack of 5			Screw
Price cat.	B			A	B	B		B	A
						internal edges		internally round	

BUR CYLINDER



Description	Code	REF	Price cat.
Bur cylinder for Xi 3.0 incl. screw SF 2301*	FZ Xi 3.0	13-422365	D
Bur cylinder for Xi 3.4 incl. screw SF 2301	FZ Xi 3.4	13-422366	D
Bur cylinder for Xi 3.8 incl. screw SF 2301	FZ Xi 3.8	13-422367	D
Bur cylinder for Xi 4.5 incl. screw SF 2301	FZ Xi 4.5	13-422368	D

*The bur cylinder FZ Xi 3.0 is not for removable prosthetics and especially not for telescopic restorations.

LOCALICER®





Description	Hight	Code	REF	Price cat.
Localizer® for Xign® 3.4 mm	2 mm	LOC Xi 3.4 2	13-422372	D
Localizer® for Xign® 3.4 mm	3 mm	LOC Xi 3.4 3	13-422373	D
Localizer® for Xign® 3.4 mm	4 mm	LOC Xi 3.4 4	13-422374	D
Localizer® for Xign® 3.8 mm	2 mm	LOC Xi 3.8 2	13-422375	D
Localizer® for Xign® 3.8 mm	3 mm	LOC Xi 3.8 3	13-422376	D
Localizer® for Xign® 3.8 mm	4 mm	LOC Xi 3.8 4	13-422377	D
Localizer® for Xign® 4.5 mm	2 mm	LOC Xi 4.5 2	13-422378	D
Localizer® for Xign® 4.5 mm	3 mm	LOC Xi 4.5 3	13-422379	D
Localizer® for Xign® 4.5 mm	4 mm	LOC Xi 4.5 4	13-422380	D

Required tool HT 1.77.

When using LOC-abutments and KOS LOC, we recommend to use minimally 6 implants per jaw and to use a single denture as splinting.




ACCESSORIES FOR LOCALICER®

	Description	Code	REF	Price cat.
	Analogue + impression Set	AA LOC	13-462337	C
	Set with 5 caps + 1 housing (EXTERNAL PRODUCT)	NCS	13-462338	D
	Pull off force Yellow 600 g, Pink 1.200 g, Clear 1.800 g, Violet 2.700 g. Black has no retention and is designed for temporary solutions for up to one month.			

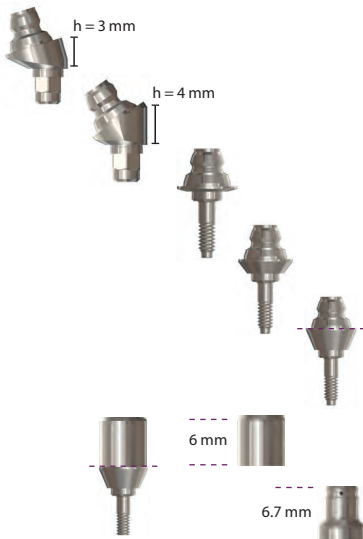
BALL ABUTMENTS

	Description	Code	REF	Price cat.
	Ball abutment for Xign® 3.0 headØ 2.5mm; 2 mm Hight	TB Xi 3.0 2	13-422381	E
	Ball abutment for Xign® 3.0 headØ 2.5mm; 4 mm Hight	TB Xi 3.0 4	13-422382	E
	Ball abutment for Xign® 3.4 headØ 2.5mm; 2 mm Hight	TB Xi 3.4 2	13-422383	E
	Ball abutment for Xign® 3.4 headØ 2.5mm; 4 mm Hight	TB Xi 3.4 4	13-422384	E
	Ball abutment for Xign® 3.8 headØ 2.5mm; 2 mm Hight	TB Xi 3.8 2	13-422385	E
	Ball abutment for Xign® 3.8 headØ 2.5mm; 4 mm Hight	TB Xi 3.8 4	13-422386	E
	Ball abutment for Xign® 4.5 headØ 2.5mm; 2 mm Hight	TB Xi 4.5 2	13-422387	E
	Ball abutment for Xign® 4.5 headØ 2.5mm; 4 mm Hight	TB Xi 4.5 4	13-422388	E
		Insertion with HAS2 or Tool E (REF 13-462377)		

ACCESSORIES FOR BALL ABUTMENTS

	Description	Code	REF	Price cat.
	Nylon cap transparent (Pull-off force ca. 1200g) for ball abutment TB Xi (EXTERNAL PRODUCT)	NC	13-465028	A1
	Nylon cap pink (Pull-off force ca. 800g) for ball abutment TB Xi (EXTERNAL PRODUCT)	NC 1	13-465029	A1
	Nylon cap yellow (Pull-off force ca. 500g) for ball abutment TB Xi (EXTERNAL PRODUCT)	NC 2	13-465030	A1
	Green, strong	R-NC	13-465034	A1
	Pink, medium	R-NC1	13-465033	A1
	Orange, soft	R-NC2	13-465032	A1
	Sleeve for all NC (EXTERNAL PRODUCT)	H	13-465031	A1

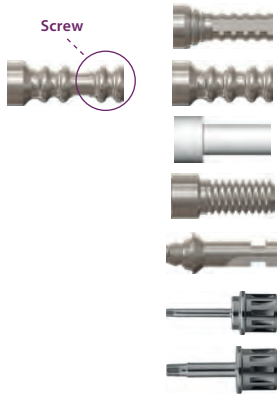
MULTI-UNIT ABUTMENTS



Description	Code	REF	Price cat.
MU2 17 Xi 3.8, angled, Ti6Al4V ELI. Incl. SF 44	MU2 17 Xi 3.8	13-422500	L
MU2 35 Xi 3.8, angled, Ti6Al4V ELI. Incl. SF 44	MU2 35 Xi 3.8	13-422501	L
MU2S 0.5 Xi 3.8, straight, Ti6Al4V ELI	MU2S 0.5 Xi 3.8	13-422502	G
MU2S 1.5 Xi 3.8, straight, Ti6Al4V ELI	MU2S 1.5 Xi 3.8	13-422503	G
MU2S 2.5 Xi 3.8, abutment straight, Ti6Al4V ELI	MU2S 2.5 Xi 3.8	13-422504	G
Gingivaformer, Ti6Al4V ELI. Incl. SF MU2 High above abutment shoulder 6 mm	GF MU2	13-418286	C
Localicer, Ti6Al4V ELI. Incl. SF MU2 High above abutment shoulder 6.7 mm	MU2	13-418287	C

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

ACCESSORIES FOR MULTI-UNIT ABUTMENTS
















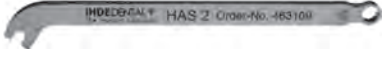


Description	Code	REF	Price cat.
Temporary base, Ti6Al4V (SF MU2 has to be ordered separately)	TC MU2	13-418290	D
Transfer straight, Ti6Al4V ELI, incl. screw SFL MU2	TS MU2	13-418291	C
Castable for Multi-Unit, incl. screw	PA MU2	13-418292	A
Screw for TC MU, Ti6Al4V ELI	SE MU2	13-418293	A
Lab analogue for Multi-Unit, Ti6Al4V ELI	IA MU 2	13-418295	B
Hex-instrument, long	HT 1.25	13-425100	C
Hex-instrument, long	HT 1.77	13-425103	C

INSERTION TOOLS



Description	Code	REF	Price cat.
Insertion tool medium, for TempBase®	ITT2 Xi 3.0 OS	13-422408	D
Insertion tool short, for TempBase®	ITT3 Xi 3.0 OS	13-422409	D
Insertion tool long	IT1 Xi 3.4 OS	13-422410	D
Insertion tool medium	IT2 Xi 3.4 OS	13-422411	D
Insertion tool short	IT3 Xi 3.4 OS	13-422412	D
Insertion tool long, 36 mm	IT1 Xi U OS	13-422413	D
Insertion tool medium, 26 mm	IT2 Xi U OS	13-422414	D
Insertion tool short, 18 mm	IT3 Xi U OS	13-422415	D

TOOLS

	Description	Code	REF	Price cat.
	Parallel depth gage brown	PDG 3.0	13-422416	B
	Parallel depth gage silver	PDG 3.4	13-422417	B
	Parallel depth gage yellow	PDG 3.8	13-422418	B
	Parallel depth gage blue	PDG 4.5	13-422419	B
	Standardized X-ray measuring probe. Scaling 1 mm, X-ray measuring for cylindrical implant types	PDG	13-425400	A
	Hex-instrument for 1.22 - 1.25 mm screws	HT 1.25	13-425100	C
	Hex-instrument for contra-angle	HT 1.25 M	13-425112	B
	Hex-instrument, extralong, length 45 mm, Ø 1.25 mm	HTX 1.25	13-425102	C
	HTW 1.25	HTW 1.25	13-425111	B
	Hex-instrument for 1.77 mm screws + Localicer®	HT 1.77	13-425103	C
	Hex-instrument for contra-angle	HT 1.77 M	13-425113	B
	Hex-instrument for contra-angle, extralong	HTX 1.77	13-425104	C
	Hex-instrument for 0.9 mm screws	HT 0.9	13-422428	C
	Hex-instrument for contra-angle	HT 0.9 M	13-425114	C
	Hex-instrument for contra-angle	TT 1.25 M	13-425115	C
	Drill extension contra-angle (DX2), extends by 19 mm	DX 2	13-500704	D
	Flat spanner (for TB Xi ballhead abutments)	HAS2	13-463109	H
	Tool E, 20 mm long	Tool E	13-462377	D
	Torque wrench, 10 - 70 Ncm	TW2	13-425402	S

We recommend to have our torque wrenches calibrated annually.

GUIDE JACKET



Description	Amount	Material	REF	Price cat.
BFH 2.0 guide jacket for pilot drill 2.0mmd	Pack of 5	Ti6Al4V	13-425410	A



BFH 2.5 guide jacket for pilot drill 2.5mmd	Pack of 5	Ti6Al4V	13-425411	A
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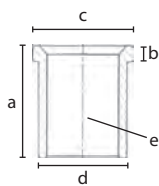
BFH 3.0 guide jacket for pilot drill 3.0mmd	Pack of 5	Ti6Al4V	13-425412	A
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BFH 3.2 guide jacket for pilot drill 3.2mmd	Pack of 5	Ti6Al4V	13-425413	A
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BFH 3.5 guide jacket for pilot drill 3.5mmd	Pack of 5	Ti6Al4V	13-425414	A
---------------------------------------------	-----------	---------	-----------	---



a) length	5 mm
b) hight 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



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



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



Surgical drill guide for safe BECES® placement. The drill sleeves are designed for 2.0 mm Twist drills.

**-55%
Heat**

HEATLESS® DRILL DFN / DFLN FOR IMPLANTS WITH CONICAL CORE


	Description	Ø working space	max. drill depth	Length	REF	Price cat.
 7 11 15 19 23 9 13 17 21	Pilot drill					
	DS 2	2.0 mm	15 mm	32 mm	13-425001	D
	DS 2.8	2.8 mm	15 mm	32 mm	13-425005	D
	DSL 2	2.0 mm	23 mm	41 mm	13-425002	D
	Form drill					
	DFN 3.0	2.7 mm	15 mm	36 mm	13-425030	E
	DFN 3.4	3.0 mm	15 mm	36 mm	13-425031	E
	DFN 3.7	3.4 mm	15 mm	36 mm	13-425032	E
	DFN 4.2 - 4.5	4.05 mm	15 mm	36 mm	13-425033	E
	Form drill long					
	DFLN 3.0	2.7 mm	18 mm	39 mm	13-425035	E
	DFLN 3.4	3.0 mm	18 mm	39 mm	13-425036	E
	DFLN 3.7	3.4 mm	18 mm	39 mm	13-425037	E
	DFLN 4.2 - 4.5	4.05 mm	18 mm	39 mm	13-425038	E
	Corticalis drills (use alternatively to bone tap)					
	C Drill Xi 3.0	3.0 mm	5 mm	27 mm	13-425041	D
	C Drill 3.4	3.2 mm	5 mm	27 mm	13-425042	D
 5 mm	C Drill 3.7	max. 3.8 mm	max. 5 mm	27 mm	13-425043	D
	C Drill 4.2 - 4.5	max. 4.6 mm	max. 5 mm	27 mm	13-425044	D

The actual drill diameter is smaller than the implant diameter.
* Namely for the implant systems Hexacone® and Xign®.

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.

CORTICAL TAP FOR 1ST CORTICALIS, WITHOUT HEX

	Description	Code	REF	Price cat.
 10.2 mm	Cortical tap	KSG Xi 3.0 OS	13-422424	F
	Cortical tap	KSG Xi 3.4 OS	13-422425	F
	Cortical tap	For the cap use in hard cortical bone only KSG Xi 3.8 OS	13-422426	F
	Cortical tap	KSG Xi 4.5 OS	13-422427	F

DRILLSTOPP TRAY

Not suitable for dry heat sterilizers



Description	Code	REF	Price cat.
Drill stop A		13-500881	
Drill stop C		13-500883	
Drill stop D		13-500884	
Drill stop E		13-500885	
Drill stop G		13-500887	
Drill stop I		13-500889	
Drill stop J		13-500890	
Drill stop K		13-500891	
Drill stop L		13-500892	
Form drill	DFN 3.0	13-425030	
Form drill	DFN 3.4	13-425031	
Form drill	DFN 3.7	13-425032	
Form drill	DFN 4.2 - 4.5	13-425033	
Form drill	DFN 5.5	13-425034	
Form drill	DFLN 3.0	13-425035	
Form drill	DFLN 3.4	13-425036	
Form drill	DFLN 3.7	13-425037	
Form drill	DFLN 4.2 - 4.5	13-425038	
Tray with content		13-60031-K	739.00

STARTER TRAY

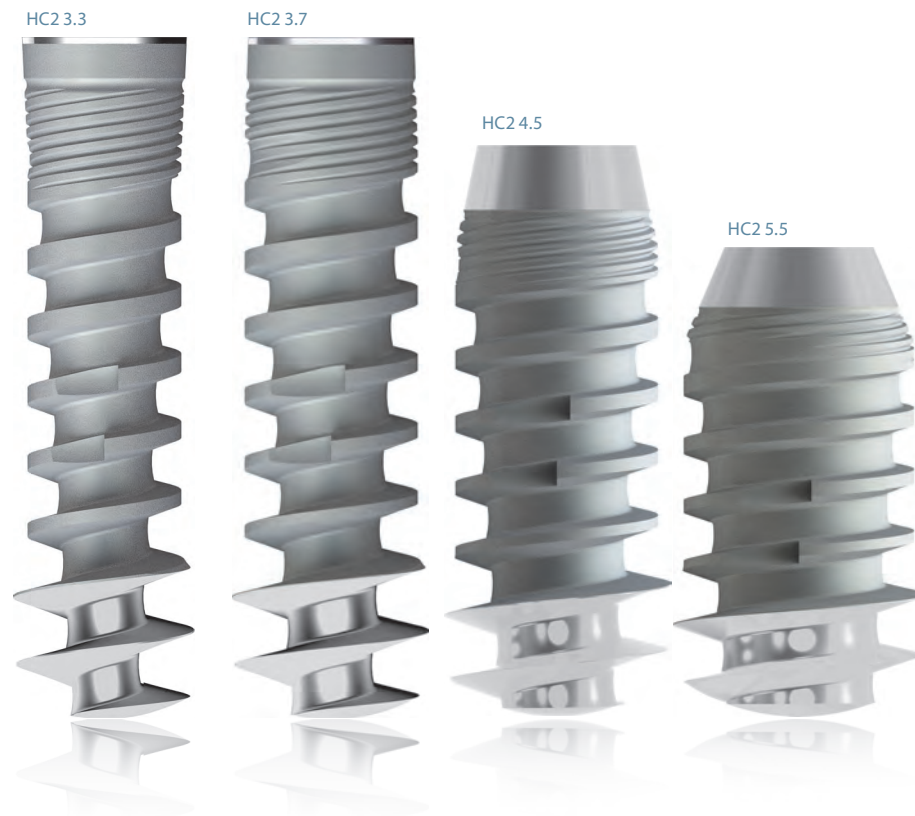
Autoclavable up to 134° C, not suitable for dry heat sterilizers
This surgical kit contains all drills and tools for first works with the Xign® system. Material: autoclavable plastic



Description	Code	REF	Price cat.
Insertion tool medium	ITT2 Xi 3.0	13-422400	
Insertion tool medium	IT2 Xi 3.4	13-422403	
Insertion tool	IT2 Xi U	13-422406	
Hex-instrument	HT 0.9	13-422428	
Hex-instrument, long	HT 1.25	13-425100	
SpiralDrill DS 2	DS 2.0	13-425001	
Form drill DFN 3.0	DFN 3.0	13-425030	
Form drill DFN 3.4	DFN 3.4	13-425031	
Form drill DFN 3.7	DFN 3.7	13-425032	
Form drill DFN 4.2-4.5	DFN 4.2-4.5	13-425033	
Standardized X-ray measuring probe	PDG	13-425400	
Torque wrench	TW2	13-425402	
Tray with content*		13-S60044-K	upon request
*empty tray upon request			

Please read our detailed instructions for cleaning and re-sterilisation of surgical instruments on https://implant.com/images/Instructions/GA/instrumente/Web_996-Anleitung_Reinigung_Resterilisation_instrumenten-03_V008.pdf

IMPLANT SYSTEM FOR ENDOSSEOUS DENTAL IMPLANTIONS



Secure anti-rotation through high precision internal hexagon
Apical expanded bone thread
Excellent stability in all bone qualities: double condensation
Universal application for fixed and removable prosthodontics
Abutment alignment and 100% tightness through the taper

HC2 implants have an apical thread and feature an internal 6-edge, an internal marginal taper and a US standard internal thread.

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.

HC2 is a registered trademark. **HC2** implants are patent-protected.

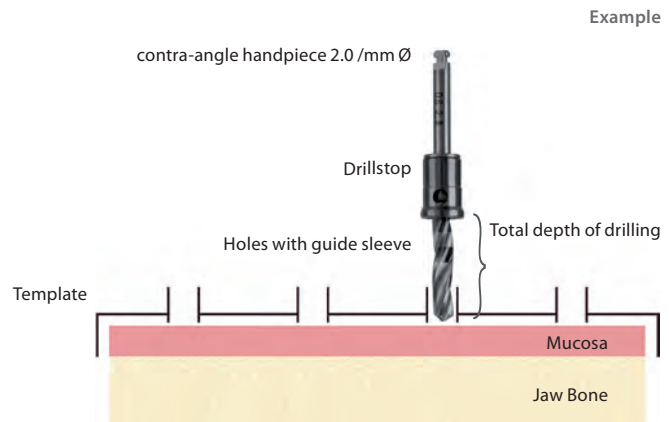
In case that implants would be reprocessed (cleaned, resterilized) infections could occur, because no validated procedures for reprocessing are available.

PREPARATORY WORK FOR TEMPLATE APPLICATION

1. Ask your laboratory to prepare a drill template with the determined drill holes for the pilot drills. To be on the safe side, you can ask the laboratory to insert guide sleeves (REF BFH) into the drillholes, which specify the exact drill direction. Please use a 2.0 / 2.2 mm Ø drill for the pilot drilling.

2. For the following drill sequences you can use drill stops, which can be attached and tightened to the drill according to the length of drilling channel. Gingival thickness and template height are taken into account as needed. 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.



General note: HC2 implants are used as compression screws. In order to achieve a good bone condensation and implant stability, the drilling should be carried out thinner than the core diameter of the implant. The minimal diameter of the drill depends on the bone density. It is therefore not possible to advise drill-sequences which fit all bone-qualities. Typically in the soft maxillary bone only small drill-diameters are used (e.g. the usage of DOS1 only, for HC2 implants with 3.3 - 5.5 mm diameter), whereas in the highly mineralized lower jaw a specific drill sequence with respect to the mineralization of the bone is necessary. For insertion under pressure use the Handgrip. Due to technical reasons HC2 2.9 mmd is not available with expanded apical thread. HC2 implants with diameters 2.9 and 3.3 mm as well as 3.7 mm are not for use as single tooth restoration.

SURGERY

1. Recommended drill sequence

HC2 2.9
(Head diameter 3.2 mm)



Step drill

or



The use of DFN is done without previous pilot drill.
Max. torque during insertion of HC 2.9: 35 Ncm.



Bone

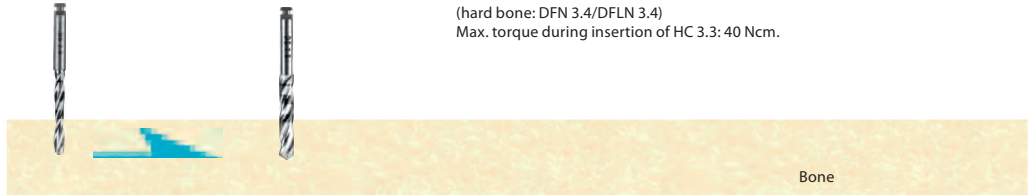
HC2 3.3



DFN 2.9 13

DFN 2.9 15

(hard bone: DFN 3.4/DFLN 3.4)
Max. torque during insertion of HC 3.3: 40 Ncm.



Bone

HC2 3.7



DS 2
Pilot drill

DS 2.8
Pilot drill



Bone

HC2 4.5 mm
HC2 4.5 mm 6+2



DS 2
Pilot drill

DFN 3.0

(DFN 3.4)

(C-Drill 3.7)
(Corticalis drill)



Bone

HC2 5.5 mm
HC2 5.5 mm 6+2



DS 2
Pilot drill

(DFN 3.4) /
DFN 3.7

DFN 4.2 - 4.5

(C-Drill 4.2 - 4.5)
(Corticalis drill)



Bone

DS 2
Pilot drill

DFN 3.7

DFN 5.5

(CSBL 4.8)

2. Implant packaging



Original packaging



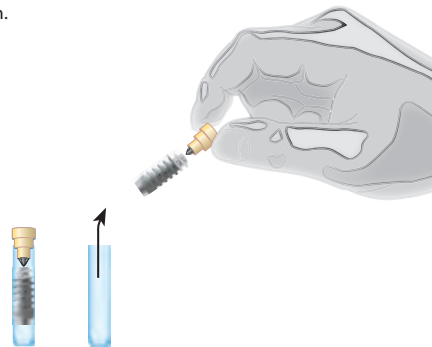
Open the blister using the flap. Remove the label and stick it into the patients record.



The blister (secondary packaging) contains the implant in a sterile tube (primary package).

3. Remove the implant from its packaging

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.

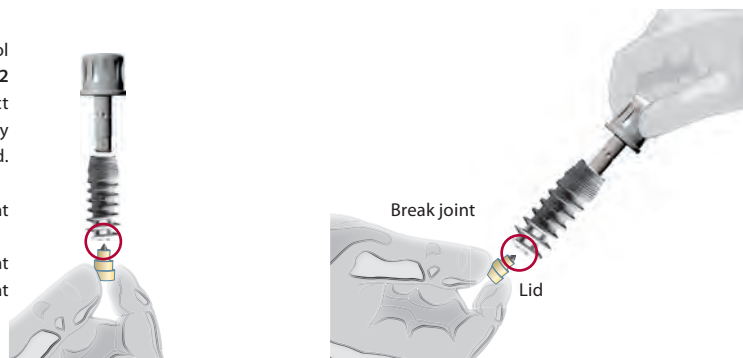


4. Handling

Attach the insertion tool to the implant by holding the top, to which the implant is secured, with your other hand.
 Alternative: Firmly attach the assembled contra-angle handpiece instrument IT 2.5 M to the implant. For ratchets ITL 2.5 can be used as well.

After you have attached the insertion tool, firmly hold the lid in your hand and break the implant off the top along the break joint. Then insert the implant into the drill hole as much as possible.

Insertion tool
IT 1 or IT 2
Make sure the hexagon is in the correct position and that the tool is fully inserted.
HC2 Implant
Break joint
Lid with implant mount

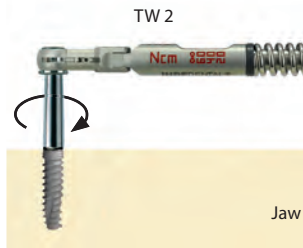


5. Insertion

Using the ratchet screw the implant clockwise into the cavity.

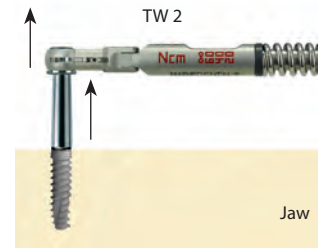
The endosseous part of the implant must be **completely** covered by the bone.

After insertion the implant can be turned by a ¼ rotation backwards in order to relieve the bone and allow blood access to the implant site.



6. Remove insertion tool from implant

Remove the insertion tool from the implant.



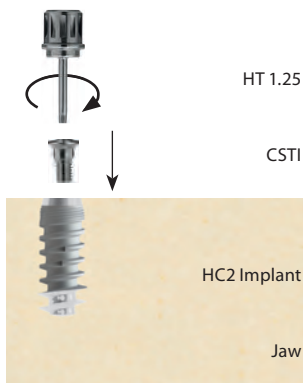
7. Result

Result: A correctly inserted implant

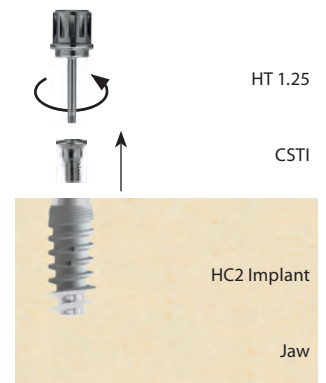


8. Post-operative treatment

Close the implant with the suitable surgical cover screw.



After healing:
Remove the surgical cover screw.

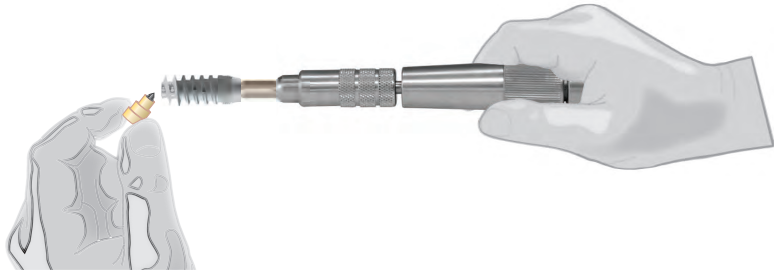


409. Handgrip

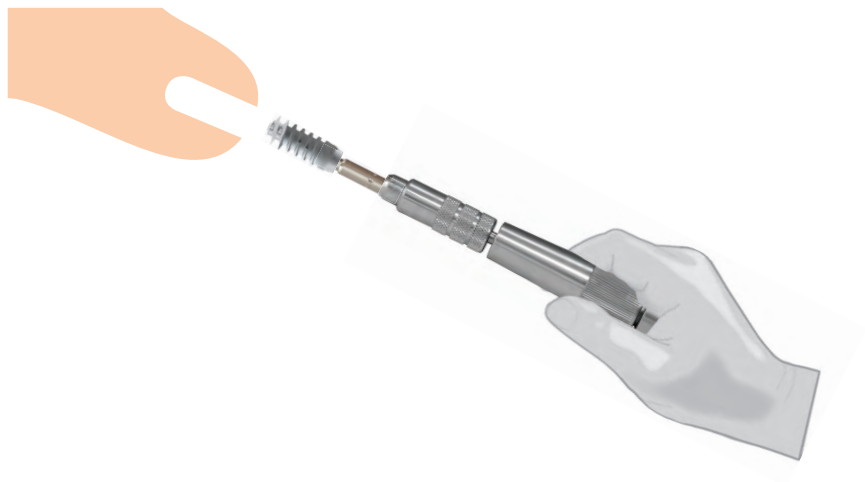
Use of Handgrip and HC2 adapter.



Break off the holder.



Insert the implant with axial pressure while turning.



Max. insertion torque for diameter

2.9 mm	30 Ncm
3.3 mm	40 Ncm
3.7 mm	50 Ncm
4.5/5.5 mm	60 Ncm

10. Pick Up Impressions

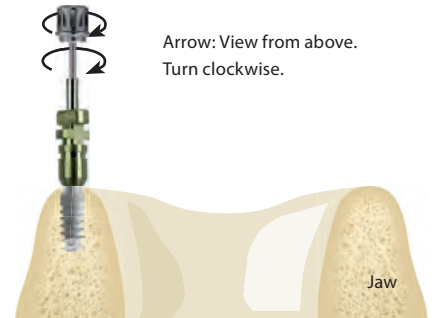
Impression taking with an A-silicone such as Safeprint® by Dr. Ihde Dental. The use of open and closed impression tray is possible.

10.1 Pick-up-procedure with an individual impression tray.

Hex tool HT 1.25

Tightening of the impression post HLT

HC2 Implant



10.2 Prior to the impression

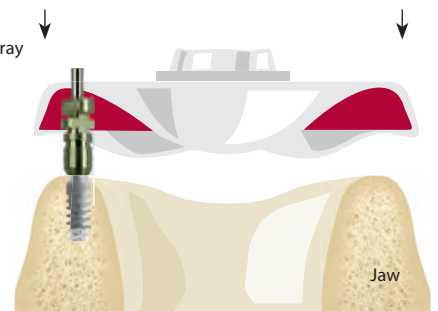
For pick up impressions the tray is inserted over the impression post until the screw peaks out on the other side and becomes accessible for the HEX-tool.

The impression post HLT must not necessarily be unscrewed from the implant in order to remove the impression tray. It can be repositioned later as well

Impression tray

Impression post HLT

HC2 Implant



10.3 Taking the impression

Disengage HLT from the implant: HLT remains in the impression

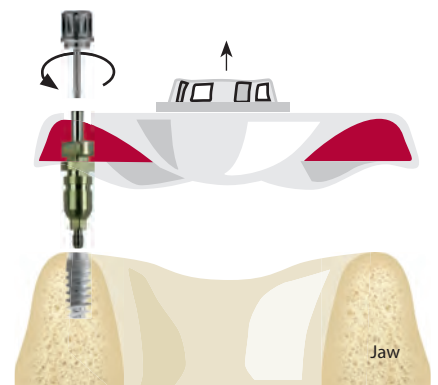
After the impression is taken, the implant is closed with a healing abutment (Gingiva former - straight or anatomic) and the impression is sent to the laboratory.

Loosen screw with HT 1.25

Window in impression tray

HLT

HC2 Implant



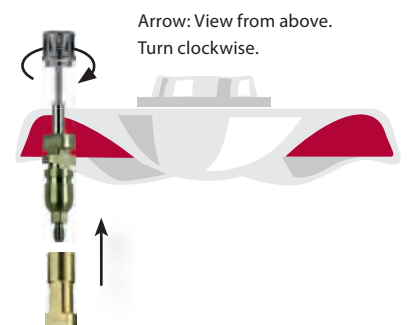
10.4 Preparation of the impression tray for model fabrication

Screw analog against the impression post.

Fasten the laboratory analog in the impression using HT 1.25

HLT

IA



11. Closed tray impressions

11.1 Impression taking with a closed impression tray

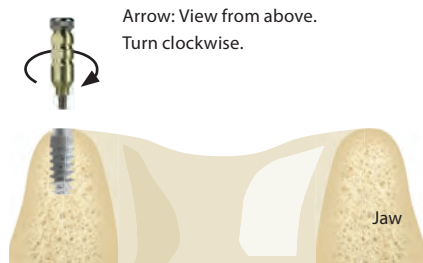
To take impression use an adequately large impression tray.

Impression posts TS/TSL are mounted with the help of the knurled screw

Tighten the impression post with the knurled screw

TS/TSL HC

HC2 Implant

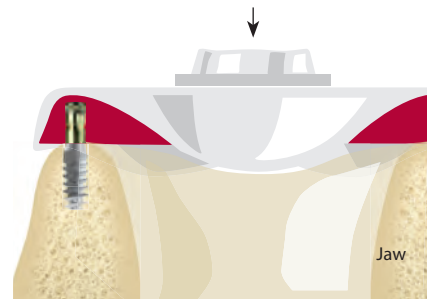


11.2 Inserting impression

The filled impression tray is positioned sufficiently deep over the impression post to also allow an impression of the mucosa.

Impression post
TS/TSL HC

HC2 Implant



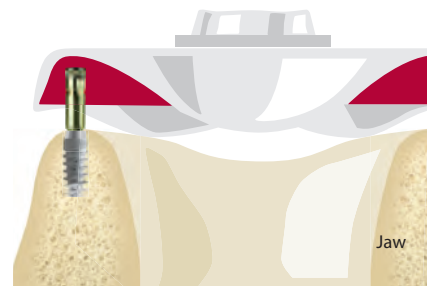
11.3 Removing impression

When the closed-tray method is applied, the impression post TS/TSL HC remains on the implant after the impression tray is removed. After removal of the impression tray the impression post will be unscrewed and repositioned in the impression.

After the impression is taken, the implant is closed with a healing abutment (Gingiva former - straight or anatomic) and the impression is sent to the laboratory.

TS/TSL HC

HC2 Implant



11.4 Mounting the lab analog

Screw analog IA or IA HC M to the transfer post TS HC.

(A)

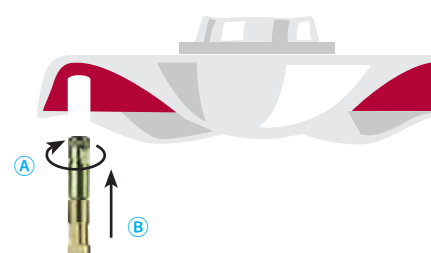
Afterwards the impression post is repositioned in the impression. (B)

The impression can now be casted. In IA HC M block the lower access to the lock screw out prior to casting.

Tighten the impression post onto the laboratory analog using the knurled screw

TS HC

IA or IA HC M



12. Laboratory procedures

12.1

The impression is poured. Then the impression posts (HLT or TS/TSL HC) are unscrewed from the laboratory analog.



12.2

The laboratory analog is now in the proper position and orientation in the Gypsum.

IA or IA HC M



12.3

Positioning of the screwable abutments TLA15 HC, thereby the optimal position and adequate angulation must be determined.

NOTE The hexagon must be completely inserted into the analog.

HT 1.25

Insert screw

TLA 15

Take care to position the hexagon correctly



Arrow: View from above.
Turn clockwise.

IA or IA HC M



12.4

Ensure proper position of the abutment when transferring into the mouth.

Tightening torque of the screw during fastening on the implant: 20 Ncm

TLA 15 HC



12.5

If more than one angled abutment is used, your laboratory will prepare a detachable synthetic bar (e.g. from Pattern Resin) in order to facilitate the correct positioning in the mouth.

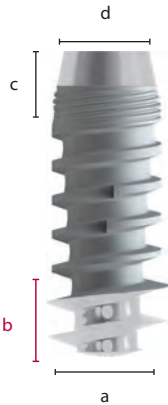
TLA 15 HC

Pattern Resin®



HC2 IMPLANTS

HC2 implants have a roughened endosseous surface and a machined apical thread. They feature an internal hex, an internal marginal taper and a US standard internal thread.



HC2 WITH AGGRESSIVE APICAL THREAD: HC2

As a result of many years of clinical observation of products, the design of the famous HC2 implant has been revised: the broadened apical thread is fully self-cutting. Thanks to the new apical thread portion, the implant is more stable even in weak bone and higher insertion torque can be reached.

If the implant is anchored in the 2nd cortical, it may be used in immediate load protocols. Especially in the upper jaw the usage of the new handgrip (REF 13-311431, with adapter IT HC REF 13-418196.) for inserting the implant is mandatory. This tool allows to apply vertical insertion forces and will enhance the anchorage. The drill sequence remains unchanged compared to the former design of the HC2 implant. And of course all abutments and tools remain the same.

Should the first cortical be unusually firm, the insertion can be achieved using the handgrip REF 13-311431 with the adapter IT HC REF13-418196.

Dimensions HC2 4.5 + 13

a) basal thread Ø	4.3 mm
b) height of the apical thread	3.2 mm
height of polished collar	2.0 mm
c) Implant neck height	2.5 mm
d) nominal Ø	3.7 mm

Application limitations

HC2/HC implant with a diameter of 2.9 mm - 3.3 mm implants may not be placed in a loaded area, especially not in the molar or premolar area. Likewise these implants may not be used where diagonal loading (off-axis loading) occurs, i.e. not for upper anteriors. Under no circumstances may Hexacone 2.9 mm implants be used for work that involves unsupported occlusal surfaces (consoles). If used in immediate load protocols, the prosthetic construction must be safely inserted on the 2nd post-operative day, and it should not be removed within the first 6 months.

In general we recommend to use implants up to (and including) the diameter 3.7 mm with care and not to use them for single tooth replacements, unless strict force control/force distribution is guaranteed.

HC2 IMPLANTS WIDE APICAL THREAD

Maximum insertion torque see page 70



Description	endosseous Ø	endosseous length	REF	Price cat.
HC2 3.3 8	3.3 mm	8 mm	13-412220	G
HC2 3.3 10	3.3 mm	10 mm	13-412221	G
HC2 3.3 11.5	3.3 mm	11.5 mm	13-412222	G
HC2 3.3 13	3.3 mm	13 mm	13-412223	G



HC2 3.3 15	3.3 mm	15 mm	13-412224	G
HC2 3.7 8	3.7 mm	8 mm	13-412202	G
HC2 3.7 10	3.7 mm	10 mm	13-412203	G
HC2 3.7 11.5	3.7 mm	11.5 mm	13-412210	G
HC2 3.7 13	3.7 mm	13 mm	13-412204	G
HC2 3.7 15	3.7 mm	15 mm	13-412205	G



HC2 4.5 8	4.5 mm	8 mm	13-412206	G
HC2 4.5 10	4.5 mm	10 mm	13-412207	G
HC2 4.5 11.5	4.5 mm	11.5 mm	13-412208	G
HC2 4.5 13	4.5 mm	13 mm	13-412209	G



HC2 5.5 8	5.5 mm	8 mm	13-412211	G
HC2 5.5 10	5.5 mm	10 mm	13-412212	G
HC2 5.5 11.5	5.5 mm	11.5 mm	13-412213	G
HC2 5.5 13	5.5 mm	13 mm	13-412214	G

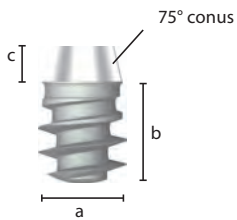
Delivery includes surgical screw CSTI, REF 13-418101.



HC2 6+2 IMPLANTS WITH AGGRESSIVE APICAL THREAD

HC2 6+2 was especially developed for the area of the 1st and 2nd molars in the upper and lower jaw. It is possible and recommendable to use it as a compression screw implant in the upper jaw. Endosseous length 6-8 mm. The upper edge of the polished 75° reverse cone can end at bone level or slightly above it. HC2 6+2 implants have a laser-generated surface structure (no-itis® laser) in the enossal area.

The conical polished implant head (c) should be submerged into the bone.



Description	endosseous Ø	endosseous length	REF	Price cat.
HC2 4.5 6+2	4.5 mm	6-8 mm	13-412217	G
HC2 5.5 6+2	5.5 mm	6-8 mm	13-412218	G

- a) endosseous Ø: 4.5 - 5.5 mm
- b) endosseous length: 6 - 8 mm
- c) reverse conus: 2 mm

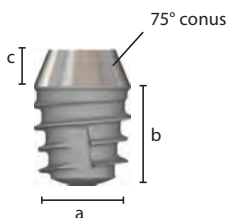
Delivery includes surgical screw CSTI, REF 13-418101.



TRADITIONAL HC 6+2 IMPLANTS

HC 6+2 was especially developed for the area of the 1st and 2nd molars in the upper and lower jaw. It is possible and recommendable to use it as a compression screw implant in the upper jaw. Endosseous length 6-8 mm (8 mm incl. reverse cone). The upper edge of the polished 75° reverse cone can end at bone level or slightly above it. HC 6+2 implants have a laser-generated surface structure (No-Itis® laser) in the enossal area.

The conical polished implant head (a) should be submerged into the bone.



Description	endosseous Ø	endosseous length	REF	Price cat.
HC 4.5 6+2	4.5 mm	6-8 mm	13-413217	G
HC 5.5 6+2	5.5 mm	6-8 mm	13-413218	G

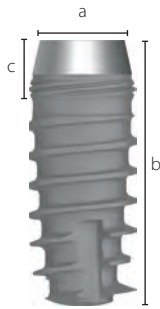
- a) endosseous Ø: 4.5 - 5.5 mm
- b) endosseous length: 6 - 8 mm
- c) reverse conus: 2 mm

Delivery includes surgical screw CSTI, REF 13-418101.



TRADITIONAL HC IMPLANTS

Maximum insertion torque see page 7



Dimensions HC Implants

a) endosseous nominal \varnothing 2.9 - 5.5 mm

b) endosseous length 8 - 15 mm

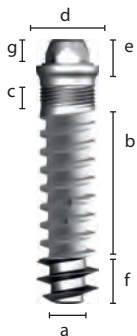
c) length micro thread / polished neck 2.1 mm

Description	endoss. \varnothing	endoss. length	REF	Price cat.
 HC 3.3 8	3.3 mm	8 mm	13-413220	G
 HC 3.3 10	3.3 mm	10 mm	13-413221	G
 HC 3.3 11.5	3.3 mm	11.5 mm	13-413222	G
 HC 3.3 13	3.3 mm	13 mm	13-413223	G
 HC 3.3 15	3.3 mm	15 mm	13-413224	G
 HC 3.7 8	3.7 mm	8 mm	13-413202	G
 HC 3.7 10	3.7 mm	10 mm	13-413203	G
 HC 3.7 11.5	3.7 mm	11.5 mm	13-413210	G
 HC 3.7 13	3.7 mm	13 mm	13-413204	G
 HC 3.7 15	3.7 mm	15 mm	13-413205	G
 HC 4.1 8	4.1 mm	8 mm	13-413300	G
 HC 4.1 10	4.1 mm	10 mm	13-413301	G
 HC 4.1 11.5	4.1 mm	11.5 mm	13-413302	G
 HC 4.1 13	4.1 mm	13 mm	13-413303	G
 HC 4.5 8	4.5 mm	8 mm	13-413206	G
 HC 4.5 10	4.5 mm	10 mm	13-413207	G
 HC 4.5 11.5	4.5 mm	11.5 mm	13-413208	G
 HC 4.5 13	4.5 mm	13 mm	13-413209	G
 HC 5.5 8	5.5 mm	8 mm	13-413211	G
 HC 5.5 10	5.5 mm	10 mm	13-413212	G
 HC 5.5 11.5	5.5 mm	11.5 mm	13-413213	G
 HC 5.5 13	5.5 mm	13 mm	13-413214	G



Delivery includes surgical screw **CSTI**, REF 13-418101.

HEXACONE® PLUS MU 0° IMPLANTS



Maximum insertion torque: 50 Ncm.
Material Ti6Al4V

Dimensions
HC Plus MU 0° 4.1 17

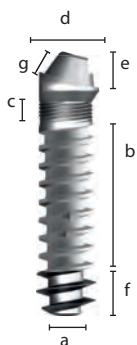
a) endosseous maximal Ø	3.3 / 4.1 mm
b) endosseous length	11.5 - 21.5 mm
c) length micro thread	1.5 mm
d) platform Ø	4.8 mm
e) height head	2.6 mm
f) height of the apical thread	3.2

Description	max. nominal Ø / without apical thread	max. nominal Ø / with apical thread	endosseous length	REF	Price cat.
HC Plus MU 3.3 13 0°	3.3 mm	4 mm	13 mm	13-412250	G
HC Plus MU 3.3 15 0°	3.3 mm	4 mm	15 mm	13-412251	G
HC Plus MU 3.3 17 0°	3.3 mm	4 mm	17 mm	13-412252	G
HC Plus MU 3.3 19 0°	3.3 mm	4 mm	19 mm	13-412253	G
HC Plus MU 3.3 21 0°	3.3 mm	4 mm	21 mm	13-412254	G
HC Plus MU 3.3 23 0°	3.3 mm	4 mm	23 mm	13-412255	G
HC Plus MU 4.1 10 0°	4.1 mm	4.7 mm	10 mm	13-412259	G
HC Plus MU 4.1 13 0°	4.1 mm	4.7 mm	13 mm	13-412260	G
HC Plus MU 4.1 15 0°	4.1 mm	4.7 mm	15 mm	13-412261	G
HC Plus MU 4.1 17 0°	4.1 mm	4.7 mm	17 mm	13-412262	G
HC Plus MU 4.1 19 0°	4.1 mm	4.7 mm	19 mm	13-412263	G
HC Plus MU 4.1 21 0°	4.1 mm	4.7 mm	21 mm	13-412264	G
HC Plus MU 4.1 23 0°	4.1 mm	4.7 mm	23 mm	13-412265	G



Description	Code	REF	Price cat.
Insertion tool incl. screw REF 418316. For Hexacone Plus MU 0°.	IT HCMU	13-418315	F

HEXACONE® PLUS MU 15° IMPLANTS



Maximum insertion torque: 50 Ncm.
Material Ti6Al4V

Dimensions
HC Plus MU 15° 4.1 17



a) endosseous maximal Ø	3.3 / 4.1 mm
b) endosseous length	11.5 - 21.5 mm
c) length micro thread	1.5 mm
d) platform Ø	4.8 mm
e) height head	3.9 mm
f) height of the apical thread	3.2
g) connecting part	2 mm

Description	max. nominal Ø / without apical thread	max. nominal Ø / with apical thread	endosseous length	REF	Price cat.
HC Plus MU 3.3 13 15°	3.3 mm	4 mm	13 mm	13-412225	G
HC Plus MU 3.3 15 15°	3.3 mm	4 mm	15 mm	13-412226	G
HC Plus MU 3.3 17 15°	3.3 mm	4 mm	17 mm	13-412227	G
HC Plus MU 3.3 19 15°	3.3 mm	4 mm	19 mm	13-412228	G
HC Plus MU 3.3 21 15°	3.3 mm	4 mm	21 mm	13-412229	G
HC Plus MU 3.3 23 15°	3.3 mm	4 mm	23 mm	13-412230	G
HC Plus MU 4.1 10 15°	4.1 mm	4.7 mm	10 mm	13-412235	G
HC Plus MU 4.1 13 15°	4.1 mm	4.7 mm	13 mm	13-412236	G
HC Plus MU 4.1 15 15°	4.1 mm	4.7 mm	15 mm	13-412237	G
HC Plus MU 4.1 17 15°	4.1 mm	4.7 mm	17 mm	13-412238	G
HC Plus MU 4.1 19 15°	4.1 mm	4.7 mm	19 mm	13-412239	G
HC Plus MU 4.1 21 15°	4.1 mm	4.7 mm	21 mm	13-412240	G
HC Plus MU 4.1 23 15°	4.1 mm	4.7 mm	23 mm	13-412241	G














Description	Code	REF	Price cat.
Insertion tool for KOC MU, BECES MU & Hexacone Plus MU 15°. Use with IT2 BCS, IT2 S BCS, AH MU, handgrip. Tool for the screw: HT 1.25	ITX MU15	13-418203	G





ACCESSORIES FOR HEXACONE® PLUS MU

	Description	Code	REF	Price cat.
	Ratchet for all hex instruments and insertion tools.	RAT2	13-425051	K
	Torque wrench 10 - 70 Ncm. It is recommended to have the torque ratchets recalibrated by us once a year.	TW2	13-425402	S

ACCESSORIES

	Description	Code	REF	Price cat.
	Insertion tool for KOS MU & BCS MU Use with IT2 BCS, IT2 S BCS, AH MU	ITX MU15	13-418203	G
	Titanium base Use with SF K MU (REF 418164)	T-Base MU	13-418188	B
	Castable abutment for use with T-Base and SF K MU	PA2 MU	13-418189	B
	Lab analogue for MU-implants	IA K MU	13-418159	A
	Prosthetic screw for KOC® MU and BECES® MU	SF K MU	13-418164	B
	Long screw for prosthetic use or as pick-up screw for use with TS MU (Tool: HT 1.25). Material Ti6Al4V	SFL MU	13-418168	B
	Castable abutment UCLA for direct use on MU-implants. SF K MU sold separately	PA MU	13-418119	B
	Transfer Coping (Temporary base) SF K MU must be ordered separately	TC MU	13-418161	D
	Transfer for pick-up, straight Delivery incl. SFL MU	HLT MU	13-418162	C
	Adapter for handgrip Fits ITX MU15 (REF 13-418203)	AH MU	13-900041	F
	Scan abutment for MU implants, incl. screw SSA MU. Sterilisable, two-part Material Ti6Al4V	SAB MU	13-418205	D

SCANBODIES

	Description	System	Material	Amount	Code	REF	Price cat.
 Top view 	Scanbody-MU cylindrical	BECES® MU KOC® MU Hexacone® MU	POM	Pack of 5	Scanbody-MU	13-462056	B
 Top view 	Flag-Scanbody SCB MU incl. screw SFK MU (REF 13-418164) For intra-oral scan	BECES® MU KOC® MU Hexacone® MU	POM	Pack of 1	SCB MU	13-462073	B

Please go to <http://simpladent-implant.com/en/stl> to download the corresponding STL files.



SURGICAL ACCESSORIES

Application limitations Hexacone® 2.9 mm implants may not be placed in a loaded area, especially not in the molar or premolar area. Likewise these implants may not be used where diagonal loading (off-axis loading) occurs, i.e. not for upper anteriors. Under no circumstances may Hexacone 2.9 mm implants be used for work that involves unsupported occlusal surfaces (consoles). If used in immediate load protocols, the prosthetic construction must be safely inserted on the 2nd postoperative day, and it should not be removed within the first 6 months.



In general we recommend to use implants up to (and including) the diameter 3.7 mm with care and avoid using them for single tooth replacements, unless strict force control is guaranteed.

	Description	Code	REF	Price cat.
	for 3 mm gingival height	HSI 3	13-418111	B
	for 5 mm gingival height	HSI 5	13-418112	B
	for 3 mm gingival height	HSIW 3	13-418191	B
	for 5 mm gingival height	HSIW 5	13-418192	B
	3 mm height, 4.5 mm width	HSI 3-4.5	13-418268	B
	3 mm height, 5.5 mm width	HSI 3-5.5	13-418269	B
	5 mm height, 6.7 mm width	HSI 5-6,7	13-418270	B
	3 mm height, 3.3 mm width	HSIS 3-3.3	13-418277	B

Screwable abutments for cemented bridges, without anti-rotation protection. Trimming and grinding is possible.
Tighten with HT 1.25. Recommended insertion torque 20 Ncm.

	Description	Code	REF	Price cat.
	Height above implantat 8.5 mm The impression is made directly on the TCA, with tool TZ HC	TCA	13-418129	B
	The impression is made directly on the TCA	TCA W	13-418173	B

Superstructure with hex and screw. Straight, for cemented bridges, without anti-rotation protection. Trimming and grinding is possible.
Tighten with HT 1.25. Delivery inclusive screw SF 20. Recommended insertion torque 20 Ncm.




	Description	Code	REF	Price cat.
	Abutment, height above implantat 8.5 mm	TLA HC	13-418133	D
	Abutment, narrow, for HC 2.9	TLAS	13-418134	D
	Abutment with 2 mm gingival height	TLA HC2	13-418170	D
	Abutment with 4 mm gingival height	TLA HC4	13-418171	D

	Description	Code	REF	Price cat.
	Abutment	TLA W	13-418193	D
	Anatomical abutment	ANAB	13-418276	E



	Description	Code	REF	Price cat.
	15°angled, 1 mm gingival height	TLA15 HC1	13-418135	F
	15°angled, 2 mm gingival height	TLA15 HC2	13-418136	F
	15°angled, 3 mm gingival height	TLA15 HC3	13-418137	F
	25°angled, 1 mm gingival height	TLA25 HC1	13-418139	F
	25°angled, 2 mm gingival height	TLA25 HC2	13-418140	F
	25°angled, 3 mm gingival height	TLA25 HC3	13-418141	F

Delivery inclusive screw SF 20



	Description	Code	REF	Price cat.
	Castable abutment for TLA HC2/4	PA TLA HC	13-418172	A
	Castable abutment For TLA HC and TCA	PA U	13-418181	A
	Transfer post For TLA HC and TCA	TZ HC	13-418179	A

IMPRESSION TAKING AND LABORATORY ACCESSORIES

	Description	Code	REF	Price cat.
	Impression post Click-on No screw is needed	HLTC	13-418107	C
	Short Impression post For TLA, TLA 15 and TLA 25 For Pick-up, with screw	HLT	13-418108	C
	Pickup-Screw For HLT REF 418108	SF HLT long	13-418185	B
	Impression post for HC Height 10.6 mm	TS HC	13-418109	C
	Impression post for HC Height 15.5 mm	TSL HC	13-418110	C
	Long impression post With screw	HLTS	13-418118	C
	Lab analogue for Hex	IA HC	13-418113	B

DIGITAL IMPRESSION TAKING

	Description	Material	Unit	Code	REF	Price cat.
	Scanbody for digital impression taking Screw SF 20 is optional and must be ordered separately	POM	Pack of 5	Scanbody HC	13-418288	B

Screwable spacer abutment for bridges and bars. Screw in with HT 1.77. Recommended insertion torque 25 Ncm.



Description	Code	REF	Price category
for gingival height 3 mm	TSA 3	13-418143	B
for gingival height 4 mm	TSA 4	13-418144	B
for gingival height 5 mm	TSA 5	13-418145	B
for gingival height 6 mm	TSA 6	13-418146	B



Description	TSA Analog	Castable abutment 10.5 mm high Pack of 5	Prosthetic screw for PSS on BTS/TSA
Code	BTS	PSS (white)	SF
REF	13-418152		13-418151
Price cat.	B	B	B

Screwable mesostructure for bridges and bars. Screw in with HT 1.77 hex key. Recommended insertion torque 25 Ncm. The position of the TCT hex is assigned with this approach.



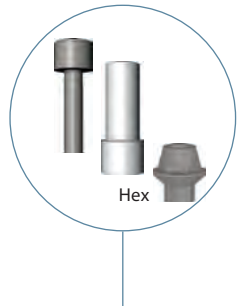
Description	Code	REF	Price category
For gingival height 0.5 mm	TCT HC 0.5	13-418130	B
For gingival height 1.5 mm	TCT HC 1.5	13-418131	B
For gingival height 2.5 mm	TCT HC 2.5	13-418132	B



Description	Transfer post	long Screw	TCT analog	Castable abutment 12 mm high inside circular Pack of 5	Castable abutment 12 mm high inside edged Pack of 5	Fastening screw
Code	TST	SFL	BTT	PSTR (gray)	PSTA	SF
REF	13-418147	13-420428	13-418100	13-418124	13-418123	13-418151
Price cat.	B	A	B	B	B	B

TCT SET

This set contains all necessary components for the mesiostructure. For bridges and bars. Screwable (anti-rotation).



Description	Code	REF	Price category
Screw for PSTA	SFTCTL	13-418165	A
Castable abutment, 12 mm high, edged inside	PSTA	13-418123	B
Mesiostructure for bridges and bars, screwable	TCTL 0.5	13-418138	D
COMPLETE SET		13-418263	F



Description	Description	Description	Description	Description
Laboratory analog for HC, HC2, with internal Hex	Long transfer post for HC, HC2, anti-rotation	Short transfer post for HC, HC2, anti-rotation	Castable abutment, round, 12 mm high	Pack of 5
Code	IA HC	HLTS	HLT	PSTR
REF	13-418113	13-418118	13-418108	13-418124
Price cat.	B	C	C	B

ABUTMENTS

This abutment converts the internal hexagon of the HC2 implant into an external standard-hexagon. The prosthetic screw is screwed through. It tightens the prosthetic and the abutment at the same time.

	Description	Material	Code	REF	Price category
SF 275					
					
	Tempbase for HRA HC	PEEK	TPB E	13-418274	C
	HEX reverse abutment incl. screw SF 275 REF 13-418275	Ti6Al4V	HRA HC	13-418273	D

LOCALICER®

Suitable tool: HT 1.77. We recommend a minimum of six implants per jaw and the use of a single denture as splint when using LOC abutments and KOC LOC.



Description	Hight	Code	REF	Price category
Localicer® for Hexacone®	2 mm	LOC HC 2	13-418116	C
Localicer® for Hexacone®	4 mm	LOC HC 4	13-418117	C

ACCESSORIES FOR LOCALICER®



Description	Code	REF	Price category
Analog + impression cap Set	AA LOC	13-462337	C










Description	Code	REF	Price category
Set with 5 Caps + 1 Housing (EXTERNAL PRODUCT)	NCS	13-462338	D
Pull off force Yellow 600 g, Pink 1.200 g, Clear 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. Not for use on single implant constructions.

	Description	Material	Code	REF	Price cat.
	MU2 17 HC, angled, incl. SF 20	Ti6Al4V	MU2 17 HC	13-418281	L
	MU2 35 HC, angled, incl. SF 20	Ti6Al4V	MU2 35 HC	13-418282	L
	MU2S 0.5 HC, straight	Ti6Al4V	MU2S 0.5 HC	13-418283	G
	MU2S 1.5 HC, straight	Ti6Al4V	MU2S 1.5 HC	13-418284	G
	MU2S 2.5 HC, straight	Ti6Al4V	MU2S 2.5 HC	13-418285	G
	GF MU2 Gingivaformer incl. SF MU2 Height above abutment shoulder 6 mm	Ti6Al4V	GF MU 2	13-418286	C
	MU2 Localicer incl. SF MU2 Height above abutment shoulder 6.7 mm	Ti6Al4V	MU 2	13-418287	C
	Prosthetic screw for MU2	Ti6Al4V	SF 20	13-420943	A

ACCESSORIES FOR MULTI-UNIT ABUTMENTS

	Description	Material	Code	REF	Price cat.
	Temporary base (SF MU2 sold separately)	Ti6Al4V	TC MU2	13-418290	D
	Transfer straight incl. screw SFL MU2	Ti6Al4V	TS MU2	13-418291	C
	Castable for Multi-Unit, incl. screw TC MU2, for UCLA on the MU2-abutment		PA MU2	13-418292	A
	Screw for TC MU2	Ti6Al4V	SF MU2	13-418293	A
	Laboratory analog for Multi-Unit	Ti6Al4V	IA MU2	13-418295	B
	Hex tool long		HT 1.25	13-425100	C
	Hex tool for all superstructures		HT 1.77	13-425103	C
	T-Base MU2, for use on the Multi-Unit Abutment, Screw: SF MU2		T-Base MU	13-418195	C
	PA 2 MU for use on all T-Base		PA2 MU	13-418189	A

ACCESSORIES

**Description**

Ball abutment for fitting prostheses
Application on TSA 3-6 abutments only
Head diameter 2.5 mm

Code

SB

REF

13-418153

Price cat.

B

**Description**

Height above implant
3-6 mm

TSA analog**Code**

TSA 3 TSA 4 TSA 5 TSA 6

BTS**REF**

13-418143 13-418144 13-418145 13-418146

13-418152**Price cat.**

B

B

Description**Height****Code****REF****Price cat.**

0.5 mm

TB 0.5

13-418126

B



0.5 mm

TB 2

13-418127

B

Ball abutment head - Ø 2.5 mm
Screw in with HT 1.25
For use with NC - caps



0.5 mm

TB 4

13-418128

B

Description**Pull-off force****Code****REF****Price cat.**

ca. 1200 g, transparent

NC

13-465028

A1



Nylon cap NC
2 pieces / pack
(EXTERNAL PRODUCT)

ca. 800 g, pink

NC 1

13-465029

A1



ca. 500 g, yellow

NC 2

13-465030

A1



Nylon cap R-NC
with increased friction strength
(for use with worn out Localicer®)
2 pieces / pack
(EXTERNAL PRODUCT)

grün, strong

R-NC

13-465034

A1



rosa, medium

R-NC 1

13-465033

A1



orange, soft

R-NC 2

13-465032

A1








Sleeve for all NC
(EXTERNAL PRODUCT)

H
















13-465031

B

INSERTION TOOLS

	Description	Type	Code	REF	Price cat.
	IT 2.5	8 mm, click-on, hexagon (six edges)	IT 2.5	13-418174	B
	ITL 2.5	22 mm, click-on, hexagon (six edges)	ITL 2.5	13-418175	B
	ITM 2.5	20 mm, click-on, hexagon (six edges)	ITM 2.5	13-418176	B
	IT 2.5 M	Insertion tool for contra-angle handpiece	IT 2.5 M	13-418150	B
	ITWH 2.5 M	Insertion tool contra-angle for HC	ITWH 2.5 M	13-418184	C

TOOLS

	Description	Type	Code	REF	Price cat.
	Hex tool 1.25	long, 21 mm	HT 1.25	13-425100	C
	Torx tool 1.25	long, for all screws, 21 mm	TT 1.25	13-425105	C
	Hex tool 1.25	for contra-angle handpiece, 45 mm	HTW 1.25	13-425111	B
	Hex tool 1.25	short, 14 mm	HTS 1.25	13-425101	C
	Hex tool 1.77	for all superstructures, 19 mm	HT 1.77	13-425103	C
	Hex tool 1.25 M	for contra-angle handpiece, long, 26.1 mm	HT 1.25 M	13-425112	B
	Hex tool 1.77 M	for contra-angle handpiece, long, 28.6 mm	HT 1.77 M	13-425113	B
	Hex tool	extra long, 45 mm	HTX 1.25	13-425102	C
	Hex tool	for contra-angle, extra long, 45 mm	HTX 1.77	13-425104	C
	Punch	for contra-angle handpiece, 4.9 mm Ø	PUW1	13-425404	C
	Punch	manual, 5.2 mm Ø	PU	13-425406	C
	Standardized probe	Scale 1 mm for X-ray measurements 22 mm	PDG	13-425400	A
	Drill extension contra-angle	extends by 19 mm	DX2	13-500704	D
	Guide sleeve	for pilot drill, Titanium, 10 mm, 2.2 mm Ø Pack of 5	BFH	13-425401	A
	X-ray measuring sphere	Surgical steel, 0.5 mm Ø Pack of 5	RM	13-425403	A

GUIDE JACKET



Description

BFH 2.0 guide jacket for pilot drill 2.0mm

Amount

Pack of 5

Material

Ti6Al4V

REF

13-425410

Price cat.

A



BFH 2.5 guide jacket for pilot drill 2.5mm

Pack of 5

Ti6Al4V

13-425411

A



BFH 3.0 guide jacket for pilot drill 3.0mm

Pack of 5

Ti6Al4V

13-425412

A



BFH 3.2 guide jacket for pilot drill 3.2mm

Pack of 5

Ti6Al4V

13-425413

A



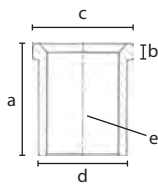
BFH 3.5 guide jacket for pilot drill 3.5mm

Pack of 5

Ti6Al4V

13-425414

A



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



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



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



Surgical drill guide for safe BECES® placement. The drill sleeves are designed for 2.0 mm Twist drills.

TITAN BASE



Description	Type	Code	REF	Price cat.
Titan base incl. screw	Abutment base for zirconium. Anti-rotation (anti-rotation). Material Ti6Al4V	MB HC	13-418267	D

HANDGRIP-TRAY



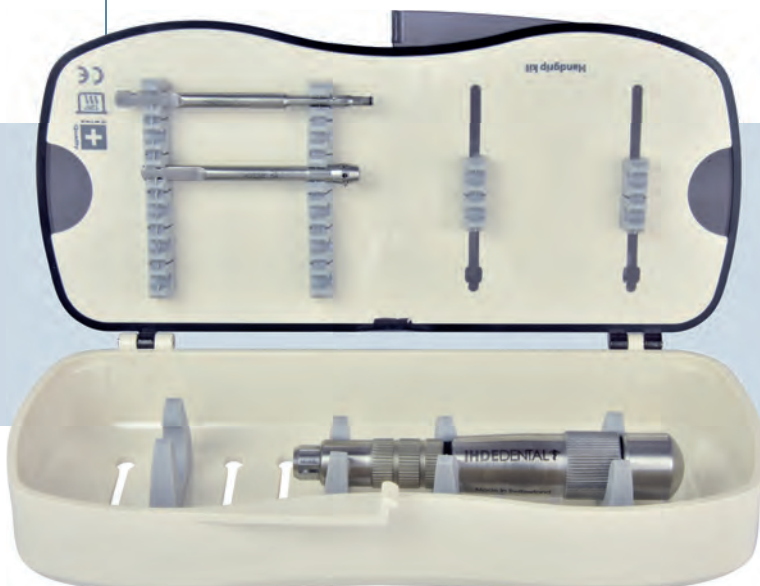
Description	Type	Code	REF	Price cat.
Adapter	for all contra angle handpiece instruments, compatible with Handgrip	Adapter Wst	13-310530	C
Ratchet	for all hex tools and insertion tools	RAT2	13-425051	K
Torque ratchet*	heavy duty for all Insertion-, hex- and torx tools 10 - 70 Ncm	TW 2	13-425402	S



Adapter for Handgrip		Adapter IT HC	13-418196	C
Handgrip **	self locking	Handgriff A	13-311431	V

* We recommend having the torque ratchet recalibrated by us once a year.

** To clean this tool a heatable ultrasonic bath and a thermo disinfectant (i.e. Miele TD-Serie) are required. If these devices are not available in the dental office the handle with REF 13-311431 should be purchased instead.



HANDGRIP-TRAY empty
Size of closed tray: W 90 mm / L 195 / H 45
REF 13-60043
Price category G

For safe storage and sterilization of handgrips (max. 3 pieces) and adapters (max. 8 pieces). Plastic, autoclaveable up to 134° C, not suitable for dry heat sterilizers.

HEATLESS® DRILLS FOR IMPLANTS WITH CONICAL CORE


Surgical steel, color-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.

For the implant systems HC2 and Xign®. Drill types DFN 3.0 - DFN 4.2-4.5.

-55%
Heat

	Ø working range	max. working depth	total length	color code	Code	REF	Price cat.
	0.1 - 1.5 mm	15 mm	31.7 mm	yellow	BCD 1	13-900240	C
	0.1 - 1.5 mm	15 mm	42 mm	yellow	BCDX 1	13-900243	C
	2.0 / 3.6 mm	13 mm	30 mm		DFN 2.9 13	13-418102	E
	2.0 / 3.6 mm	15 mm	32 mm		DFN 2.9 15	13-418103	E
	2.0 mm	17 mm	36.5 mm		DS 2	13-425001	D
	2.8 mm	17 mm	36.5 mm		DS 2.8	13-425005	D
	4.5 mm	25 mm	44.5 mm		DSL+ 2.8	13-425015	E
	2.7 mm	18 mm	36 mm		DFN 3.0	13-425030	E
	3.0 mm	18 mm	36 mm		DFN 3.4	13-425031	E
	3.4 mm	18 mm	36 mm		DFN 3.7	13-425032	E
	3.5 mm	18 mm	36 mm		DFN 4.1	13-425049	E
	4.05 mm	18 mm	36 mm		DFN 4.2 - 4.5	13-425033	E
	4.4 mm	18 mm	36 mm		DFN 5.5	13-425034	E
	2.7 mm	18 mm	39 mm		DFLN 3.0	13-425035	E
	3.0 mm	18 mm	39 mm		DFLN 3.4	13-425036	E
	3.4 mm	18 mm	39 mm		DFLN 3.7	13-425037	E
	4.05 mm	18 mm	39 mm		DFLN 4.2 - 4.5	13-425038	E
	3 mm	25 mm	43.5 mm		DFLN+ 3.4	13-425029	E
	3.4 mm	11.5 mm	30 mm		DFSN 3.7	13-425039	D
	3.9 mm	11.5 mm	30 mm		DFSN 4.2 - 4.5	13-425040	D
	max. 3.8 mm	max. 5 mm	27 mm		C Drill 3.7	13-425043	D
	max. 4.1 mm	2.5 mm	27 mm		C Drill 4.1	13-425050	D
	max. 4.6 mm	max. 5 mm	27 mm		C Drill 4.2 - 4.5	13-425044	D
	max. 5.5 mm	2.5 mm	27 mm		C Drill 5.5	13-425045	D

IT HAS BEEN SCIENTIFICALLY PROVEN

that Heatless® Drills generate 55% less heat compared to traditional bone drills by other manufacturers. This enables higher rotational speeds: We recommend between 3.000 and 5.000 RPM with good external cooling and intermittent drill technique.

TRAY

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

Size of closed tray: W 175 mm T 145 mm H 65 mm

Please read our detailed instructions for cleaning and re-sterilization of surgical instruments on www.implant.com/en/downloads



Tray with content: REF 13-S60017-K
Tray empty: REF 13-60017-K

Description	Code	REF	Description	Code	REF
Twist drill	BCD 1	13-900240	Insertion tool short	IT 2.5	13-418174
Twist drill	DS 2	13-425001	Insertion tool medium	IT 2.5 M	13-418150
Twist drill	DS 2.8	13-425005	Universal adapter	UAW	13-425107
Form drill	DFN 2.9 13	13-418102	Hex tool 1.25 long	HT 1.25	13-425100
Form drill	DFN 2.9 15	13-418103	Hex tool 1.25 short	HTS 1.25	13-425101
Form drill	DFN 3.0	13-425030	Hex tool 1.77	HT 1.77	13-425103
Form drill	DFN 3.7	13-425032	Punch	PUW 1	13-425404
Form drill	DFN 4.2 - 4.5	13-425033	Drill extension	DX 2	13-500704
Form drill	DFN 5.5	13-425034	Standardized probe	PDG	13-425400
Form drill	DFSN 3.7	13-425039	Standardized probe	PDG	13-425400
Form drill	DFSN 4.2 - 4.5	13-425040	Standardized probe	PDG	13-425400
Cortical drill	C Drill 3.7	13-425043	Twist drill	DFLN 3.0	13-425035
Cortical drill	C Drill 4.2 - 4.5	13-425044	Twist drill	DFLN 3.7	13-425037
Cortical drill	C Drill 5.5	13-425045	Twist drill	DFLN 4.2 - 4.5	13-425038
Insertion tool long	ITL 2.5	13-418175	Torque ratchet	TW 2	13-425402

DRILLSTOP - TRAY

Not suitable for dry heat sterilizers.



Description	Code	REF	Price €
Drillstop A		13-500881	
Drillstop C		13-500883	
Drillstop D		13-500884	
Drillstop E		13-500885	
Drillstop G		13-500887	
Drillstop I		13-500889	
Drillstop J		13-500890	
Drillstop K		13-500891	
Drillstop L		13-500892	
Formdrill	DFN 3.0	13-425030	
Formdrill	DFN 3.4	13-425031	
Formdrill	DFN 3.7	13-425032	
Formdrill	DFN 4.1	13-425049	
Formdrill	DFN 4.2 - 4.5	13-425033	
Formdrill	DFN 5.5	13-425034	
Formdrill	DFLN 3.0	13-425035	
Formdrill	DFLN 3.4	13-425036	
Formdrill	DFLN 3.7	13-425037	
Formdrill	DFLN 4.2 - 4.5	13-425038	
Drillstop Tray with content		13-60031-K	739.00

STARTER TRAY

This surgical kit contains all drills and tools for first works with the HC2 system. Material: Plastic autoclaveable up to 134° C
Not suitable for dry heat sterilizers.



Description	Code	REF	Price €
Insertion tool	IT 2.5	13-418174	
Insertion tool	ITL 2.5	13-418175	
Insertion tool	ITM 2.5	13-418176	
Hex tool long	HT 1.25	13-425100	
Twist drill	DS 2.0	13-425001	
Twist drill	DS 2.8	13-425005	
Formdrill	DFN 3.0	13-425030	
Formdrill	DFN 3.4	13-425031	
Formdrill	DFN 3.7	13-425032	
Formdrill	DFN 4.1	13-425049	
Formdrill	DFN 4.2-4.5	13-425033	
Corticalis drill 3.7	C-Drill 3.7	13-425043	
Corticalis drill 4.1	C-Drill 4.1	13-425050	
Corticalis drill 4.2 - 4.5	C-Drill 4.2 - 4.5	13-425044	
Torque ratchet	TW2	13-425402	
Starter Tray for HC2 with content		13-560021-K	upon request
Starter Tray for HC2 empty		13-60021-K	upon request

(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.

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.

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

Simpladent GmbH
Dorfplatz 11
CH - 8737 Gommiswald / SG
SWITZERLAND

Phone +41 (0)55 293 23 70
implants@simpladent.ch
www.simpladent-implants.com

PLEASE ASK YOUR LOCAL DISTRIBUTOR FOR THE VALID PRICE LIST

SIMPLADENT®



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