

SYSTEM APPLICATION

Two part implants

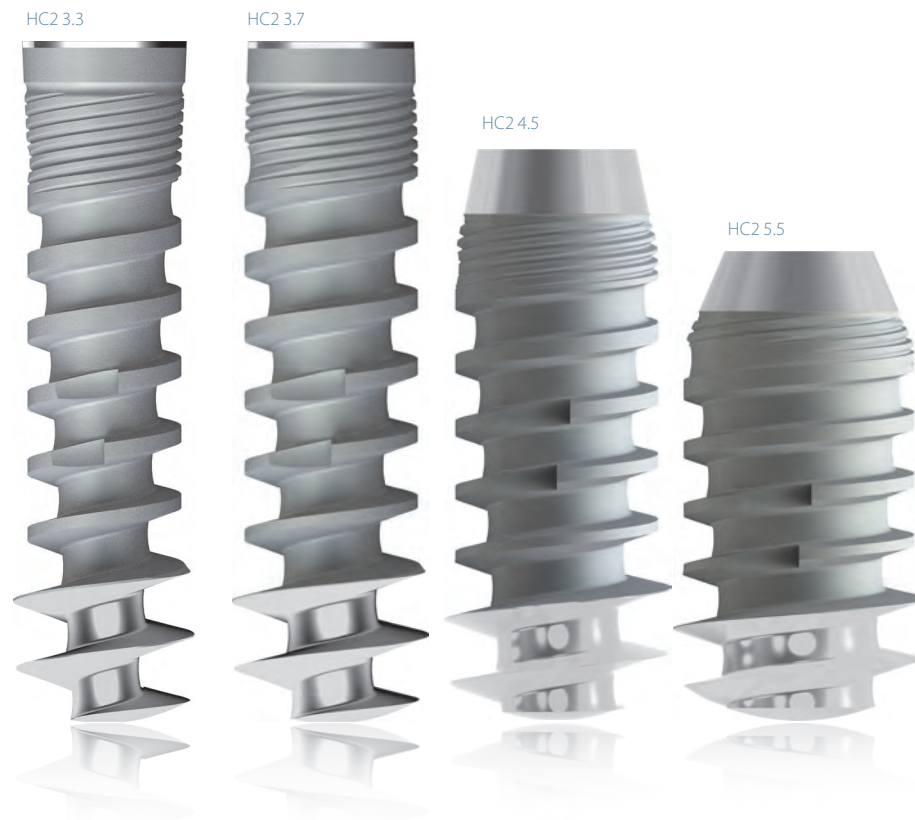


HEXAACONE[®]

IMPLANT SYSTEM FOR ENDOSSEOUS DENTAL IMPLANTATIONS

SIMPLADENT[®]

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.

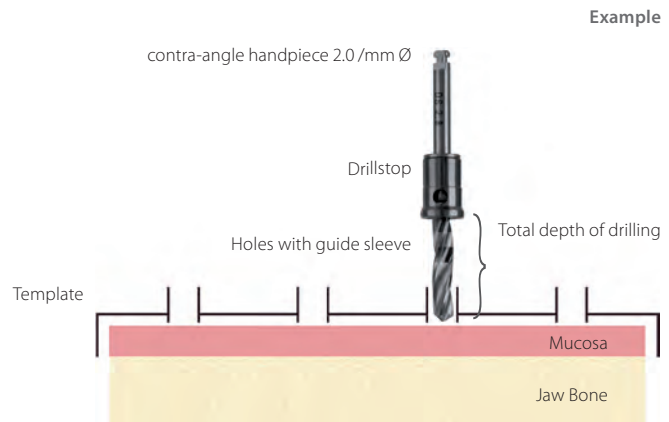
In case that implants would be reprocessed (cleaned, resterilized) infections could occur, because no validated procedures for reprocessing are available.

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 mm 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

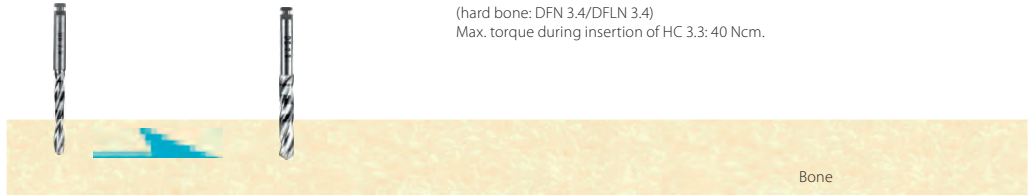
HC2 3.3



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

DS 2
Pilot drill

DS 2.8
Pilot drill

HC2 3.7



Bone

DS 2
Pilot drill

DFN 3.0

(DFN 3.4)

(C-Drill 3.7)
(Corticalis drill)

HC2 4.5 mm
HC2 4.5 mm 6+2



Bone

DS 2
Pilot drill

(DFN 3.4) /
DFN 3.7

DFN 4.2 - 4.5

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

HC2 5.5 mm
HC2 5.5 mm 6+2



Bone

DS 2
Pilot drill

DFN 3.7

DFN 5.5

(CSBL 4.8)

2. Implant packaging



Original packaging



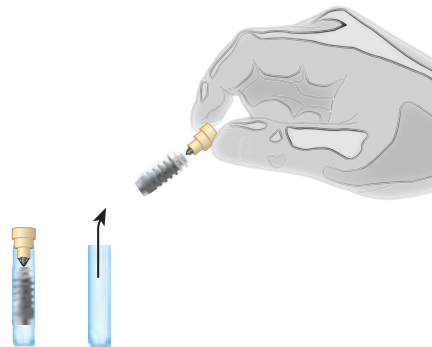
Open the blister using the flap.
Remove the label and stick it into
the patients record.



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.



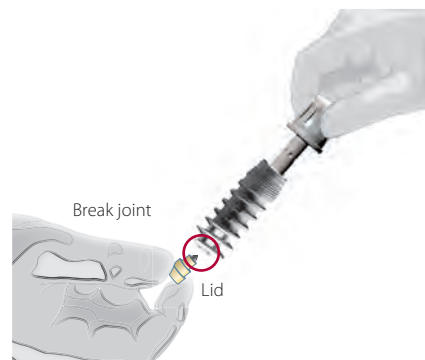
4. Handling

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

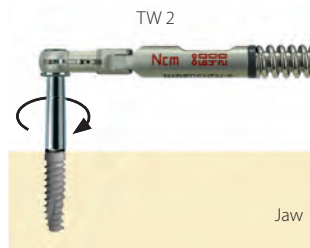


5. Insertion

Using the ratchet screw the implant clockwise into the cavity.

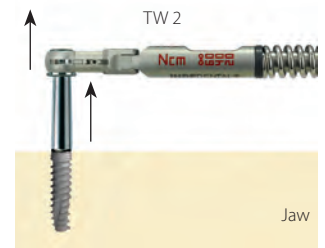
The endosseous part of the implant must be **completely** covered by the bone.

After insertion the implant can be turned by a $\frac{1}{4}$ 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.



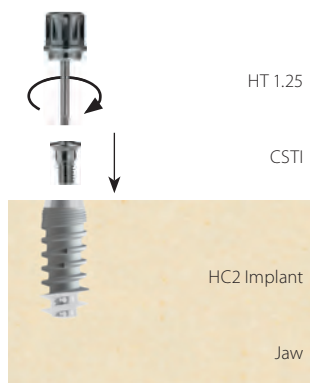
7. Result

Result: A correctly inserted implant

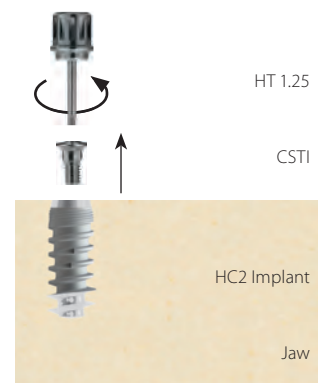


8. Post-operative treatment

Close the implant with the suitable surgical cover screw.



After healing:
Remove the surgical cover screw.

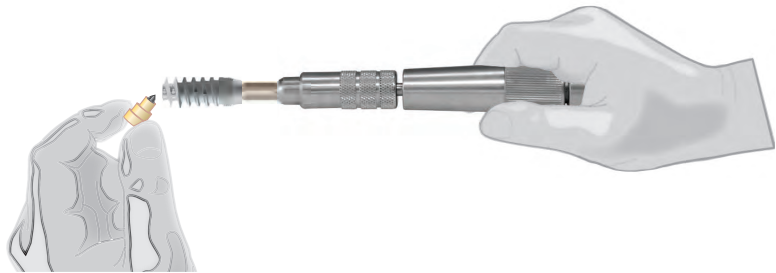


409. Handgrip

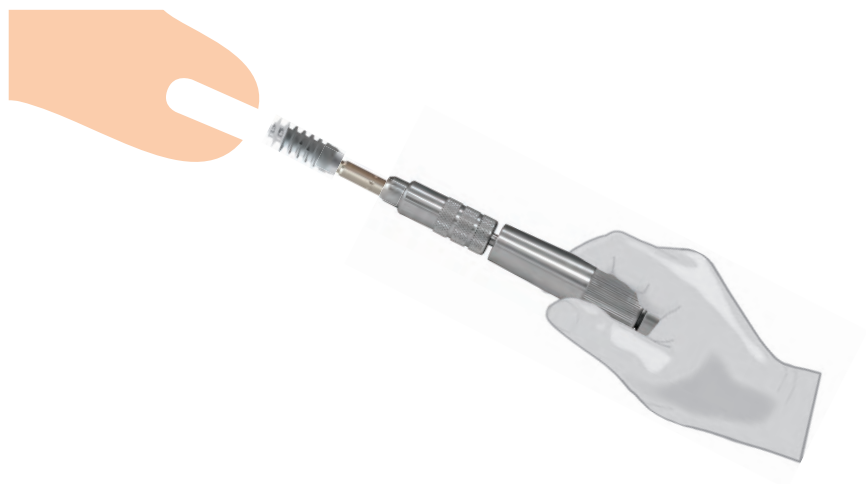
Use of Handgrip and HC2 adapter.



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

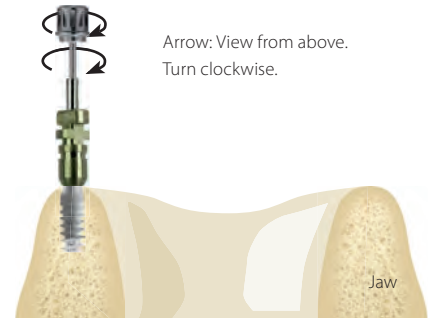
Impression taking with an A-silicone such as Safeprint® by Dr. Ihde Dental. The use of open and closed impression tray is possible.

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

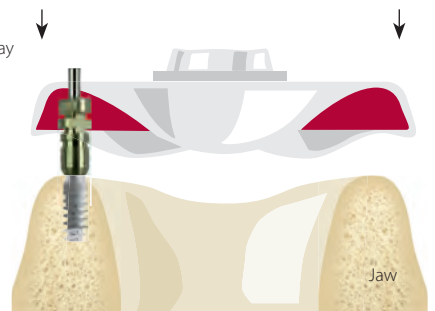
For pick up impressions the tray is inserted over the impression post until the screw peaks out on the other side and becomes accessible for the HEX-tool.

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

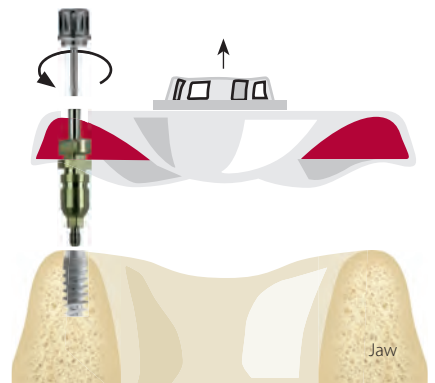
After the impression is taken, the implant is closed with a healing abutment (Gingiva former - straight or anatomic) and the impression is sent to the laboratory.

Loosen screw with HT 1.25

Window in impression tray

HLT

HC2 Implant



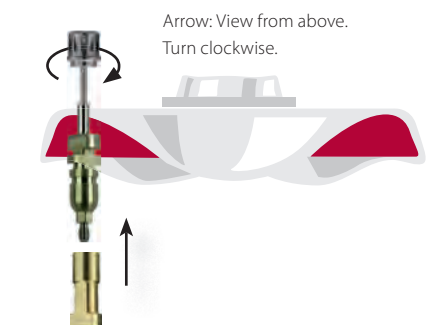
10.4 Preparation of the impression tray for model fabrication

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

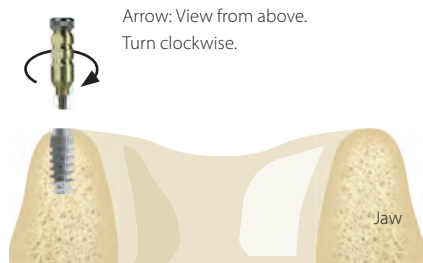
To take impression use an adequately large impression tray.

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

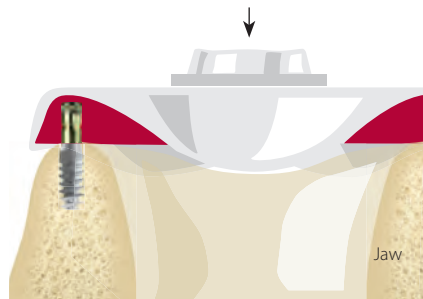


11.2 Inserting impression

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)

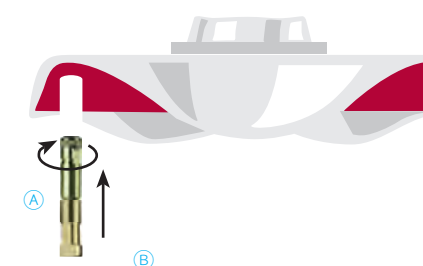
Afterwards the impression post is repositioned in the impression. (B)

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

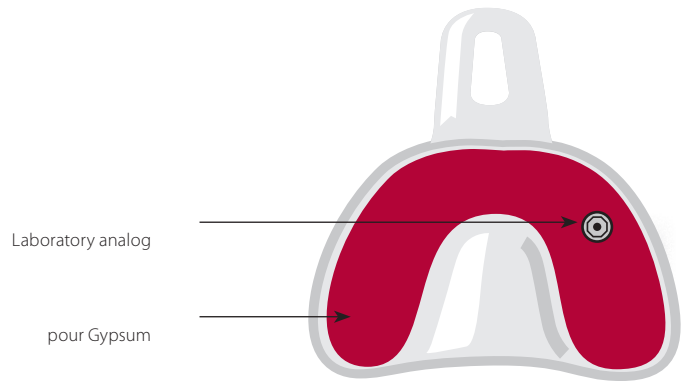
IA or IA HC M



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



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

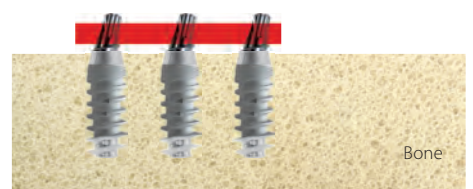


12.5

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.

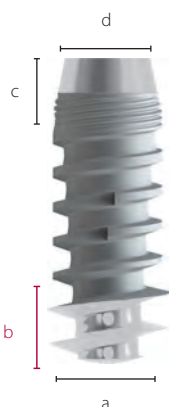
TLA 15 HC

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 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 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 7



	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

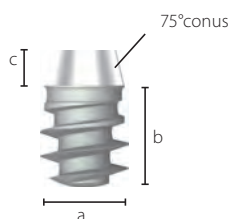
Delivery includes surgical screw **CSTI**, REF 13-418101.



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

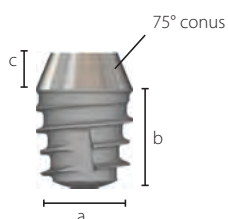
Delivery includes surgical screw CSTI, REF 13-418101.



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

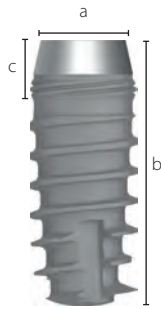
- a) endosseous Ø: 4.5 - 5.5 mm
- b) endosseous length: 6 - 8 mm
- c) reverse conus: 2 mm

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

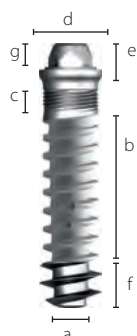
c) length micro thread /
polished neck 2.1 mm

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

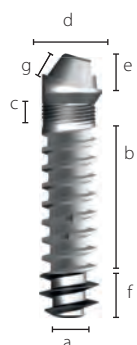
a) endosseous maximal Ø	3.3 / 4.1 mm
b) endosseous length	11.5 - 21.5 mm
c) length micro thread	1.5 mm
d) platform Ø	4.8 mm
e) height head	2.6 mm
f) height of the apical thread	3.2

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	F
	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
	Gingivaformer for 5 mm gingival height	HSI 5	13-418112	B
	for 3 mm gingival height	HSIW 3	13-418191	B
	Wide gingivaformer for 5 mm gingival height	HSIW 5	13-418192	B
	3 mm height, 4.5 mm width	HSI 3-4.5	13-418268	B
	Anatomic gingivaformer 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
	Gingivaformer 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

for gingival height 3 mm

for gingival height 4 mm

for gingival height 5 mm

for gingival height 6 mm

Code

TSA 3

TSA 4

TSA 5

TSA 6

REF

13-418143

13-418144

13-418145

13-418146

Price category

B

B

B

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

For gingival height 0.5 mm

For gingival height 1.5 mm

For gingival height 2.5 mm

Code

TCT HC 0.5

TCT HC 1.5

TCT HC 2.5

REF

13-418130

13-418131

13-418132

Price category

B

B

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

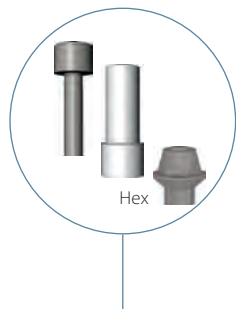
B

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



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**

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

Height

0.5 mm

Code

TB 0.5

REF

13-418126

Price cat.

B

0.5 mm

TB 2

13-418127

B

0.5 mm

TB 4

13-418128

B

**Description**

Nylon cap NC
2 pieces / pack
(EXTERNAL PRODUCT)

Pull-off force

ca. 1200 g, transparent

Code

NC

REF

13-465028

Price cat.

A1

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 spheres	Surgical steel, 0.5 mm Ø Pack of 5	RM	13-425403	A

GUIDE JACKET

**Description**

BFH 2.0 guide jacket for pilot drill 2.0mmd

Amount

Pack of 5

Material

Ti6Al4V

REF

13-425410

Price cat.

B



BFH 2.5 guide jacket for pilot drill 2.5mmd

Pack of 5

Ti6Al4V

13-425411

B



BFH 3.0 guide jacket for pilot drill 3.0mmd

Pack of 5

Ti6Al4V

13-425412

B



BFH 3.2 guide jacket for pilot drill 3.2mmd

Pack of 5

Ti6Al4V

13-425413

B



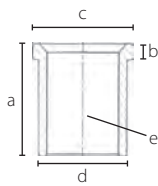
BFH 3.5 guide jacket for pilot drill 3.5mmd

Pack of 5

Ti6Al4V

13-425414

B



a) length

5 mm

b) height of step

0.7 mm

c) max. Ø top

3.7 - 5 mm

d) nominal Ø

3 - 4.4 mm

e) Ø of drilling in the drill template

2.05 - 3.55 mm



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 BCS® 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
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Torque ratchet*	heavy duty for all Insertion-, hex- and torx tools 10 - 70 Ncm	TW 2	13-425402	S
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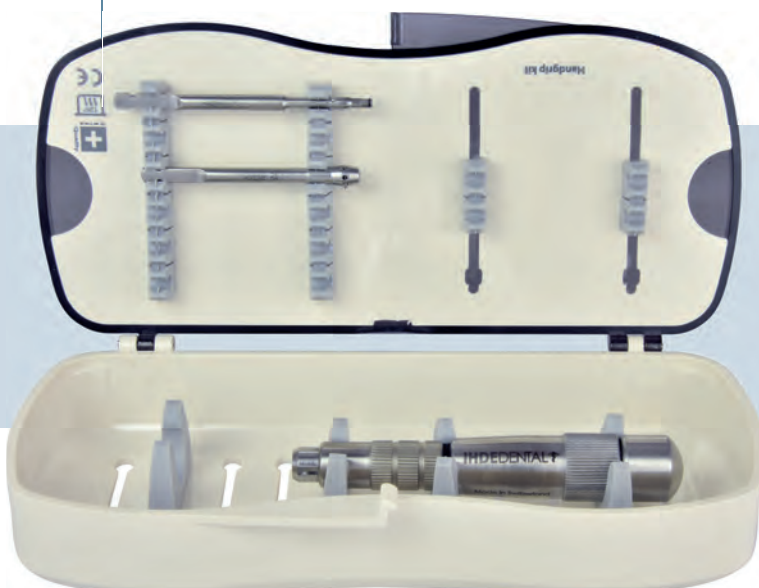
Adapter for Handgrip		Adapter IT HC	13-418196	C
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Handgrip **	self locking	Handgriff A	13-311431	V
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* We recommend having the torque ratchet recalibrated by us once a year.

** 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

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.
Hexacone® is a registered trademark.
Hexacone® implants are patent-protected.
 In case that implants would be reprocessed (cleaned, resterilized) infections could occur, because no validated procedures for reprocessing are available.

(The products of this catalogue are CE marked (class I) and CE 1936 marked (class IIa and IIb) according to 93/42/EC Directive).

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

Compilation and explanation of symbols on the packaging:



Batch No.



Sterilized by radiation



Non-sterile



Intended for use by dentists or surgeons only



Single use product



Instruction for use



Expiry date



Store in a dry place



Store tightly keep closed



Do not use if packing is damaged



Do not resterilize



Manufacturer



Production date



Catalogue number



Secure 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

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