





About us



HumanTech Dental GmbH is one of the leading manufacturers of human implants and instruments for dental surgery. The intelligent, well-designed implant systems are used successfully all over the world.



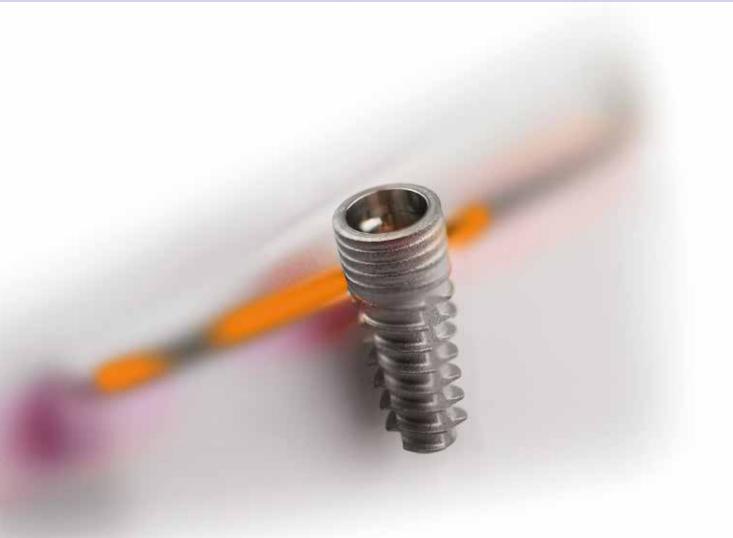
The high standards of precision in all areas of production perfectly complement the strict requirements for the manufacture of medical products. Our high-tech machinery and state-of-the-art testing procedures guarantee the highest product quality.

We manufacture, package and deliver our dental implants directly to our customers in accordance with the latest guidelines. The diversity of the implant product line offers a wide range of clinical solutions, such as reconstructions of single teeth, screw-retained or firmly cemented bridges and partial or full dentures. The implants are made of a biocompatible titanium alloy and their sandblasted and etched surfaces are state of the art.

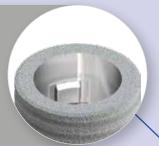
All our dental implants meet the highest international standards. We are certified for ISO13485 and for CE.

Contents

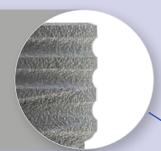
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Designed for platform switching. Therefore the implant shoulder is a flat surface and the diameter of the prostetic components is reduced.



Micro-grooves in the neck area of the implant.



Anatomic root-analogue design for easy placement and excellent cosmetic results.

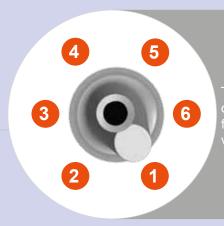


An atraumatic self-cutting thread with three extra-long cutting slots to collect bone chips and act as an anti-rotationa mechanism.



Thanks to the rounded surface of the tip of the implant, the ConeCept® line is also suitable for non-invasive direct sinus lifts.

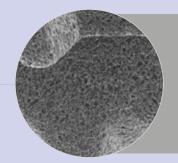




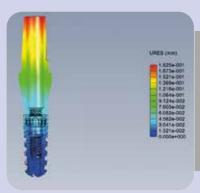
The pinnacle connection allows a high degree of flexibility to orientate the abutment and, therefore, offers the greatest possible freedom for the production of prosthetics. There are six possible variations of the abutment-implant position.



The implants have a pinnacle connection, a longitudinal cone and an inner thread. The sealing is performed by the conical transition from the upper edge of the implant to the pinnacle connection. Thanks to this unique implant / abutment connection, easy handling is guaranteed. Just one connection between all implant and abutments – the same for all implant sizes.



The implants of the ConeCept® line are root-analogous screw implants with a blasted and etched surface for all indications.



The biomechanical tests showed a much higher load-bearing capacity compared to an hexagonal implant connection.

Simple Colour System

The ConeCept® implants and drills are marked, depending on the diameter, in the colours yellow (3.3 mm), red (3.8 mm), green (4.2 mm) and blue (5.0 mm). This makes it easier to prepare the operating room and provides additional safety when inserting implants.



Implant Sizes

mm	Ø 3.3	Ø 3.8	Ø 4.2	Ø 5.0	
6.0			5005142060	5005150060	
8.0	5005133080	5005138080	5005142080	5005150080	
10.0	5005133100	5005138100	5005142100	5005150100	
11.5	5005133115	5005138115	5005142115	5005150115	
13.0	5005133130	5005138130	5005142130	5005150130	

Platform

ConeCept® implants are available in four diameters and five lengths. All implant sizes are distributed across one platform. This increases the flexibility in the choice of components, because every prosthetic component fits on every implant.



Packaging

User - Friendly, Safe and Easy

All ConeCept® implants are in special internal packaging tube, located in an extra blister pack. User-friendly, safe and sterile-packed. This packaging provides an easy connection with the insertion instrument directly from the tube during the surgery. Patient labels with all relevant data facilitate documentation of the used implants.



Plastic tube



Surgical Kit





Prosthetic Kit

ConeCept® COMPACT KIT

The ConeCept® compact kit is to start with the system and contains a basic selection of necessary tools and instruments for easy and safe insertion of the ConeCept® System implants and accessories. Due to its layout, the tools are very clearly arranged for a step-by-step drilling sequence. It's up to you which entry level you choose.



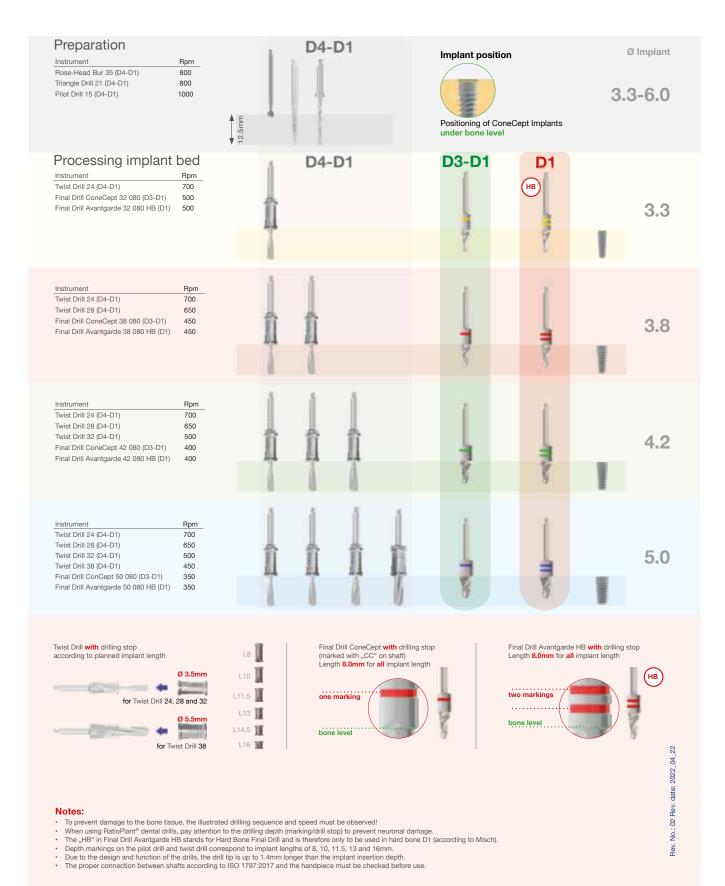
Instruments

Name	Art.No.	
inserter ConeCept® ratchet short	5012302008	
inserter ConeCept® ratchet long	5012302007	
inserter ConeCept® ratchet extra long	5012302009	***
connector handpiece	5012302010	
screwdriver hex ratchet short	5012301003	
screwdriver hex ratchet long	5012301005	
drill extender	5010308001	
screwdriver hex hand short	5012301004	
screwdriver hex hand long	5012301006	
parallel post	5012332240	
ratchet torque	5012303002	O I A Humanited

Drilling Protocol

Drilling protocol ConeCept Compact Kit CC





Final Drills



ConeCept®

Name	Art.No.
Final Drill ConeCept® 33 080	5010307070
Final Drill ConeCept® 33 100	5010307071
Final Drill ConeCept® 33 115	5010307072
Final Drill ConeCept® 33 130	5010307073
Final Drill ConeCept® 38 080	5010307074
Final Drill ConeCept 38 100	5010307075
Final Drill ConeCept® 38 115	5010307076
Final Drill ConeCept® 38 130	5010307077
Final Drill ConeCept® 42 060	5010307087
Final Drill ConeCept® 42 080	5010307078
Final Drill ConeCept® 42 100	5010307079
Final Drill ConeCept® 42 115	5010307080
Final Drill ConeCept® 42 130	5010307081
Final Drill ConeCept® 50 060	5010307082
Final Drill ConeCept® 50 080	5010307083
Final Drill ConeCept® 50 100	5010307084
Final Drill ConeCept® 50 115	5010307085
Final Drill ConeCept® 50 130	5010307086

Final Drill ConeCept®

- The drilling stop of the Final Drills ConeCept® is designed for subcrestal positioning of the ConeCept® implants and therefore creates 1 mm additional depth for under bone level implantation.
- Due to the design and function of the drills, the drill tip is a maximum of 1.4 mm longer than the implant insertion depth.
- The Final Drills ConeCept® are included in the ConeCept® universal kit. Additionally, for drilling in very hard bone (D1), Final Drills Avantgarde HB are used for extend the apical implant socket either for ConeCept® or Avantgarde implants.

Name	Art.No.
Final Drill Vario 32/33 080	5010307090
Final Drill Vario 32/33 100	5010307091
Final Drill Vario 32/33 115	5010307092
Final Drill Vario 32/33 130	5010307093
Final Drill Vario 38 080	5010307095
Final Drill Vario 38 100	5010307096
Final Drill Vario 38 115	5010307097
Final Drill Vario 38 130	5010307098
Final Drill Vario 42 060	5010307116
Final Drill Vario 42 080	5010307100
Final Drill Vario 42 100	5010307101
Final Drill Vario 42 115	5010307102
Final Drill Vario 42 130	5010307103
Final Drill Vario 50 060	5010307105
Final Drill Vario 50 080	5010307106
Final Drill Vario 50 100	5010307107
Final Drill Vario 50 115	5010307108
Final Drill Vario 50 130	5010307109

Final Drill Vario

- The Vario Drills without drilling stop, allow exact positioning of the implant even in difficult bone conditions.
- The drilling depth can be created freely but must be controlled carefully to avoid neuronal demage.
- A depth indicator notch indicates the bone level position of the implant. Underbone level positioning will be possible if the full helix is inserted during drilling.



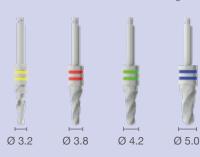




Drills and drill bits

Final Drill HB

Final Drill Avantgarde HB is also used in the ConeCept® System



Name	Art. No.
Final Drill Avantgarde 32 080 HB	5010307040
Final Drill Avantgarde 32 100 HB	5010307041
Final Drill Avantgarde 32 115 HB	5010307042
Final Drill Avantgarde 32 130 HB	5010307043
Final Drill Avantgarde 38 080 HB	5010307045
Final Drill Avantgarde 38 100 HB	5010307046
Final Drill Avantgarde 38 115 HB	5010307047
Final Drill Avantgarde 38 130 HB	5010307048
Final Drill Avantgarde 42 080 HB	5010307050
Final Drill Avantgarde 42 100 HB	5010307051
Final Drill Avantgarde 42 115 HB	5010307052
Final Drill Avantgarde 42 130 HB	5010307053
Final Drill Avantgarde 50 080 HB	5010307055
Final Drill Avantgarde 50 100 HB	5010307056
Final Drill Avantgarde 50 115 HB	5010307057
Final Drill Avantgarde 50 130 HB	5010307058

Final drill HB

- The Final Drill Avantgarde HB is for use in very hard bone conditions (D1 by Misch).
- The Final Drills Avantgarde HB are equipped with a drilling stop and are suitable for subcrestal implant placement when used in combination with Final Drill ConeCept® or Vario.
- Due to the design and function of the drills, the drill lenght (including tip) is longer than the implant insertion depth. Neuronal demage must be prevented by depth controle.





Note

When selecting the drills and implants, the vertical reduction of the bone must be taken into account!

Maintenance, safety and liability

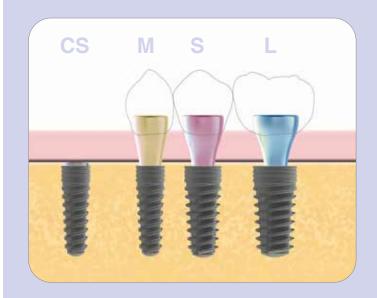
- With regard to the maintenance of the instruments and drills, please observe the ConeCept® reprocessing instructions!
- Cutting hard bone materials and tooth substance may cause the premature loss of the sharp cutting edges. All drill bits must therefore be inspected for blunt cutting edges or damage after every period of use and, if necessary, replaced.
- To avoid instrument fractures, the prescribed rotational speed must be repected.
- Caution: There is a risk of injury due to the sharp blades of the drill! There is a risk of injury due to drilling, threading, tilting and slipping! The user is solely responsible for inspecting the product before its use with respect to its suitability and possible use for the intended purposes. It is the responsibility of the user to use the drill and drill bits correctly.
- Number of uses: Always inspect drill before usage. Do not use if damaged. Do not exceed 20 uses.

Healing Caps

Name	Art.No.	
Healing Cap ConeCept® Mini H 1.5 a	5011106080	- 7
Healing Cap ConeCept® Mini H 3 a	5011106081	
Healing Cap ConeCept® Mini H 5 a	5011106082	
Healing Cap ConeCept® S H1.5 a	5011106083	
Healing Cap ConeCept® S H 3 a	5011106084	
Healing Cap ConeCept® S H 5 a	5011106085	
Healing Cap ConeCept® L H1.5 a	5011106086	
Healing Cap ConeCept® L H 3 a	5011106087	
Healing Cap ConeCept® L H 5 a	5011106088	

Note

Once the implant has been inserted the cover screw is used the cover the implant connection. After a healing period of 3 to 6 months, depending on the indication, soft tissue is formed with healing caps. The healing caps correspond to the emergence profile of the prothetic components.

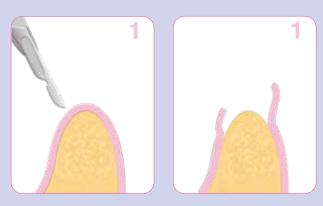


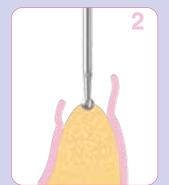
Surgical Phase





Exposure of the bone using scalpel or mucosal punch. Removal of the periosteum and preparation of the flap (1).



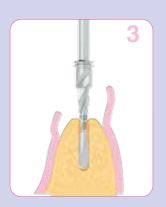


Marking with a round bur bit; fix the implant position, level the bone plateau by milling if necessary (2).

If the bone crest is tapered, level the plateau using the rosehead drill bit according to the implant diameter.

Note that the bone plateau defines the end position of the drilling stop (see page 12).





Pilot drilling with pilot drill bit, alternatively with triangle drill bit and enlarge pilot drilling with twistdrill 24 (3).





Extension drilling with final drills. Start with final drill ConeCept® 3.3 or final drill Vario 32/33.

The drill length must be selected according to the desired implant length. Increase the drill diameter of the used final drills step-by-step until the desired implant diameter. (4)

Colour markings on the final drill bits:

 yellow
 for Ø 3.3

 red
 for Ø 3.8

 green
 for Ø 4.2

 blue
 for Ø 5.0

Note:

If the drilling depth cannot be made sufficiently deep due to difficult bone conditions, use the Vario final drills (without stop) as an alternative to the final drills with stop (see page 10).

Countersink usage obligatory in bone quality D3-D1 to enlarge the coronal-cortical area. Herewith the insertion torque and the applied stress to the surrounding bone will be reduced. Countersink size must be selected according to the implant diameter. (5a)

Final Drill HB usage according to the implant diameter (Use only in D1 bone quality) to enlarge the apical-cortical area to allow insertion of the implant without excessive stress. (5b)

Place implant with the inserter and finally tighten it with the torque ratchet with max. 40 Ncm (6).

Place implant subcrestal. (approx. 1 mm under bone level)

Caution:

The screw of the inserter must not be held during the screwing process into the jaw.

Note:

When using the «connector handpiece», first place the implant with mounted inserter CC to the implant bed by hand and then place the connector handpiece mounted in the motor handpiece and screw in the implant to the final position(max. 10 rpm/40Ncm).

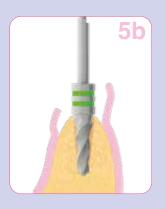
Note:

To remove the implant from inner package, first open the lid of the tube, fix the implant to the inserter with the screw and tighten it by hand. A cover screw is located in the upper lid.

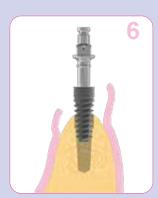








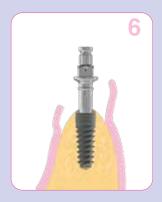






Surgical Phase

for example, ConeCept® 4.2/11.5





Ensure and note the final position:

The marking on the inserter should ideally be orientated towards the buccal! The mark indicates the direction of the inclination in the 15° and 25° abutments (6).

Loosen the fixing screw to loosen the inserter. If this is not possible by hand, do this carefully with a needle holder or a similar instrument.





For closed healing, seal the implant with the cover screw. This is tightened by hand and checked for tightness. Alternatively, a corresponding healing cap can be placed to allow open healing (7).





Optionally, place the augmentation material and distribute it around the cover screw. Wound closure and subsequent X-ray check (8).

Re-open after healing (3 to 6 months) – expose using a scalpel or mucosal punch (9).

Remove cover screw (10).

To shape the emergence profile, insert the desired healing cap, tighten by hand and check for tight fit. If necessary, attach mucosa to the healing caps by placing a suture. Healing time after closed healing is one to two weeks (11).

After shaping of the mucosa, impressions can be taken. Impression posts are available for two imprint procedures:

- Open impression method with individual impression tray – impression posts (Mini, Standard and Large) for open impression with the long screw (12).
- Closed impression method with Standard or individual impression tray – impression posts for closed impression (Mini, Standard and Large) with the prosthetic screw and transfer cap (13).

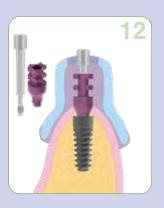
Healing Phase







Prosthetic treatment





Example of impression







Sequence of steps for an open impression

Place the impression posts for open impression with the enclosed long screws on the implant, tighten by hand and check for tight fit (1).

Test the appropriate impression tray (2).

Apply wax sheet or suitable foil on depression hole and apply suitable impression material to the impression tray







Apply suitable impression material to the impression tray, then apply impression material with fine syringe into the sulcus area, ensuring that it is free of air pockets, and place the prepared impression tray into position without tension (4-6).







Release the impression screw after the prescribed hardening time (7).

Remove the impression and prepare with a suitable disinfection agent. Reattach the healing screws (8).

Hand-tighten the impression posts with corresponding laboratory analogue using the impression screw (9).

After making the prosthetics in the dental laboratory, remove the healing caps. Insert abutment and tighten with new prosthetic screw with 25 Ncm using a torque ratchet (14).

Note:

Always repeat tightening with the torque after five minutes! When inserting the implant, make sure that the pinnacle connection is correctly locked so that there is no height misalignment between the implant and abutment!



Note:

If the restoration is cemented, a retraction thread must be applied before insertion to prevent cement residues from penetrating into the area of the implant! Otherwise there is a risk of peri-implantitis.

General note

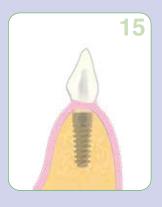
The above-mentioned descriptions are not sufficient for the immediate application of the ConeCept® implant system. We recommend training from an experienced surgeon in how to use the ConeCept® implant system. As a rule, the ConeCept® implant system must be used only by trained dentists, implantologists and dental technicians.

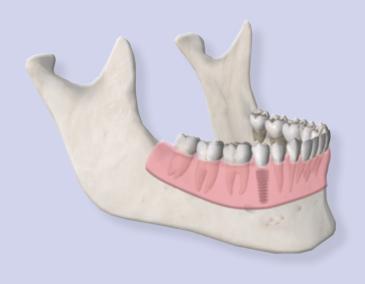
Methodological errors may result in the loss of the implants and damage to the peri-implant bone substance. The products are processed and applied beyond our control and are the sole responsibility of the user. We do not accept any liability for any damage caused in this way.

Please also note and observe our instructions on page 26 of this brochure regarding safety, liability and guarantees.











QR code for the user manual

Overview of prosthetic components

Impression posts



ConeCept® impression posts are available for all platforms, for impression procedures with open or closed tray, as well as for making digital impressions. The perfectly harmonised components guarantee precise transfer of the oral situation to the master model or into the digital work environment.

Temporary abutments



Temporary abutments offer solutions for the temporary restoration of aesthetics, tissue contouring, and immediate function. ConeCept® offers a wide range of temporary abutments for both screwed and cemented restorations.

Cementable abutments



ConeCept® cemented abutments are available in a range of materials, forms, angles and sizes for all platforms in order to fulfil individual patient requirements.

Aesthetic abutments



CAD-CAM blanks allow occlusally-screwed crowns and/ or individual abutments to be manufactured in the digital milling process with a precise connection structure. Adhesive abutments were developed specifically for the manufacture of individual hybrid abutments consisting of a prefabricated Ti adhesive base and an individually manufactured zirconium or pressed ceramic base using suitable 2K adhesive and are ideally suited for high-quality front tooth restoration.



MultiUnit abutments



The ConeCept® MultiUnit abutments solve challenging situations in the case of patients without teeth and offer a range of angles, shoulder heights and prosthetic components for individual and optimal treatment. The elaborate design ensures efficient treatment, including with immediate loading of the construction under the right conditions, and features an excellent system overview and a high degree of user friendliness.

Prosthetic ConeCept®



Screw/impression

prosthetic screw normal	5011109001	
Impression Post Open ConeCept® M a incl. impression screw long	5011105066	M
Impression Post Closed ConeCept® M a incl. prosthetic screw normal	5011105069	
Impression Post Open ConeCept® S a incl. impression screw long	5011105067	S
Impression Post Closed ConeCept® S a incl. prosthetic screw normal	5011105070	
Impression Post Open ConeCept® L a incl. impression screw long	5011105068	L
Impression Post Closed ConeCept® L a incl. prosthetic screw normal	5011105071	
Lab Analog ConeCept®	5011110008	
Transfer Cap ConeCept®	5011105010	

Prosthetic components

Ti Abutment ConeCept® 0° Mini F	H1.5 5011110500 -
Ti Abutment ConeCept® 0° Mini H	
Ti Abutment ConeCept® 0° Mini I	H5 5011110502
Ti Abutment ConeCept® 0° S H1,	5 5011110530
Ti Abutment ConeCept® 0° S H3	5011110531
Ti Abutment ConeCept® 0° S H5	5011110532

Ti Abutment ConeCept® 0° L H1,5	5011110560
Ti Abutment ConeCept® 0° L H3	5011110561
Ti Abutment ConeCept® 0° L H5 Ti	5011110562

Provisional	Abutment	Peek	ConeCept®	50	0116	1010)5

Provisional Abutment	Ti ConeCept®	5011110105
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Adhesive abutments

Ti Adhesive Abutment ConeCept® Mini Base	5011110055	M
Ti Adhesive Abutment ConeCept® S Base	5011110056	S
Ti Adhesive Abutment ConeCept® L Base	5011110057	L
Ti Adhesive Abutment ConeCept® S Base	5011110066	S

Important note for all abutments

The sealing surfaces at the contact points of the abutments to the implant must not be ground, polished or machined in any way. It is essential to pay attention to this in order to ensure an optimal fit. Machining the sealing surfaces will result in the loss of the guarantee.

Prosthetic components Ti Abutment ConeCept® 15° Mini H1,5 5011110510 Ti Abutment ConeCept® 15° Mini H3 5011110511 Ti Abutment ConeCept® 15° Mini H5 5011110512 Ti Abutment ConeCept® 15° S H1,5 Ti Abutment ConeCept® 15° S H3 5011110540 5011110541 Ti Abutment ConeCept® 15° S H5 5011110542 Ti Abutment ConeCept® 15° L H1,5 Ti Abutment ConeCept® 15° L H3 5011110570

5011110571

5011110572

5011110582

Prosthetic	components

Ti Abutment ConeCept® 15° L H5

Ti Abutment ConeCept® 25° L H5

		43
Ti Abutment ConeCept® 25° Mini H1,5	5011110520	
Ti Abutment ConeCept® 25° Mini H3	5011110521	
Ti Abutment ConeCept® 25° Mini H5	5011110522	

Ti Abutment ConeCept® 25° S H1,5 Ti Abutment ConeCept® 25° S H3 Ti Abutment ConeCept® 25° S H5	5011110550 5011110551 5011110552	S
Ti Abutment ConeCept® 25° L H1,5	5011110580 5011110581	ï

Prosthetic components CAD-CAM

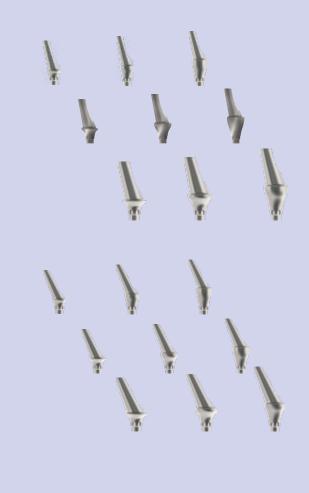
Scan Connector ConeCept® 5011610001

Abutment Ti ConeCept® CAD CAM 5011110590

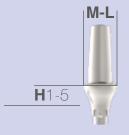
Soft-Tissue Management

For the ConeCept® system, abutments are available for the three widths (Mini Ø 4.5 mm, Standard Ø 5.0 mm and Large Ø 5.5mm) and three different neck heights (H1.5 = 1.5 mm, H3 = 3.0 mm and H5 = 5.0 mm) to cover different soft tissue forms. The abutments correspond exactly to the emergence profile of the previously used healing caps and can be used on all ConeCept® implants. This range of options allows the optimal transition between the implant and dental prosthesis on every ConeCept® implant.



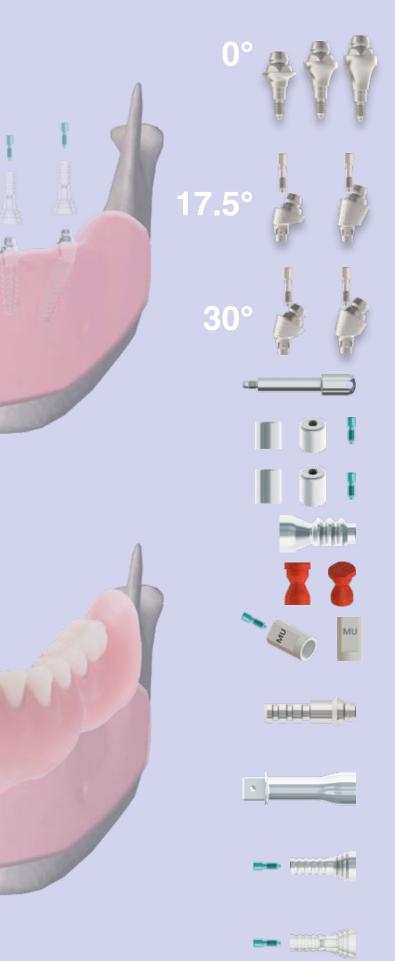








Prosthetic ConeCept®

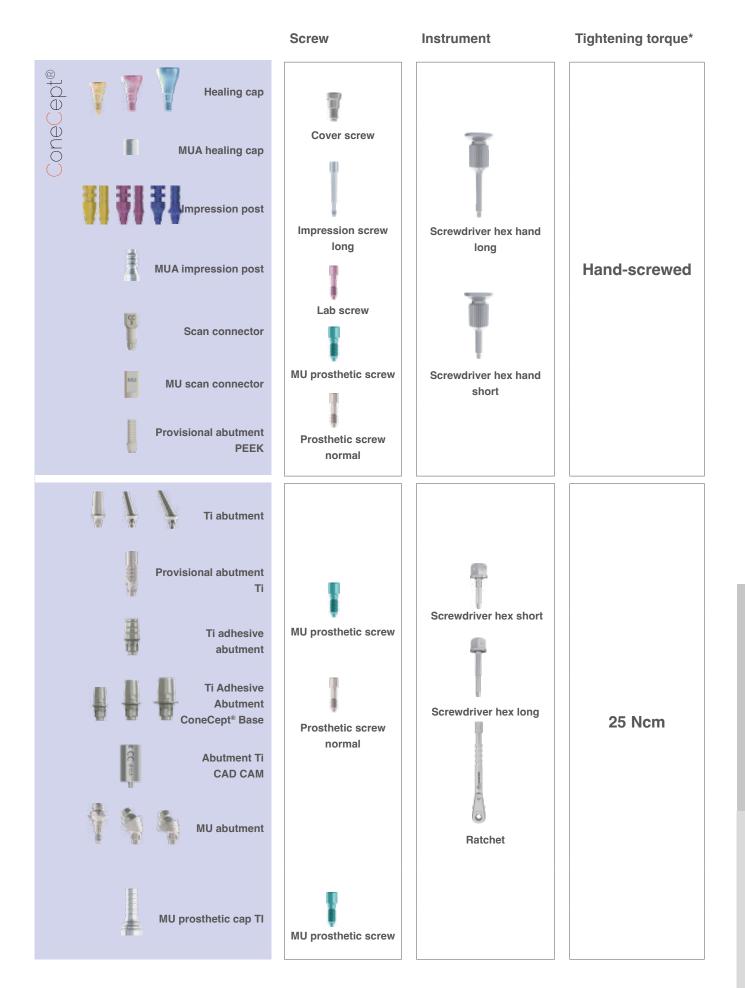


MUA-MultiUnit Abutment

MU Abutment ConeCept® 0° H1,5	5011110428
MU Abutment ConeCept® 0° H3	5011110429
MU Abutment ConeCept® 0° H5	5011110434
MU Abutment ConeCept® 17,5° H3	5011110430
MU Abutment ConeCept® 17,5° H4	5011110431
MU Abutment ConeCept® 30° H4	5011110432
MU Abutment ConeCept® 30° H5	5011110433
MU abutment inserter	5012302022
MUA healing cap H1 incl. MU prosthetic screw	5011106100
MUA healing cap H2 incl. MU prosthetic screw	5011106101
MUA impression post open tray	5011110013
MUA impression post closed tray	5011110014
MUA scan connector PEEK incl. MU prosthetic screw	5011610000
MU lab analog	5011110004
MU 0 inserter ratchet	5012302020
MU prosthetic cap TI incl. MU prosthetic screw	5011110012
MU prosthetic cap plastic	5011210020

incl. MU prosthetic screw

Tightening torque







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