

# Presentation of the system

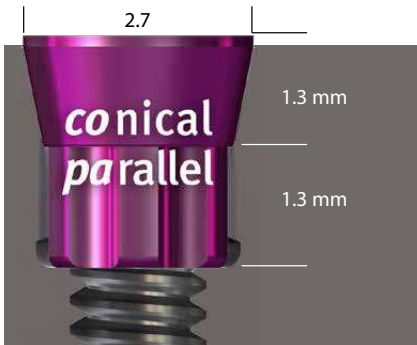


Unique prosthetic solutions

## copaSKY implant design

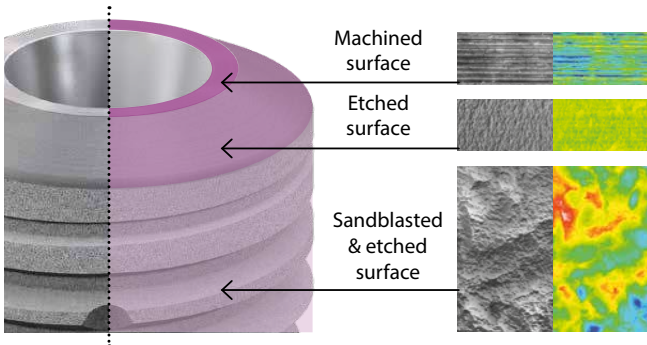
Based on the successful ultrashort implants, copaSKY has been further developed into a complete implant line available in all lengths and diameters. It has a conical-parallel-walled internal connection and a focused prosthetic portfolio that leaves nothing to be desired.

### The benefits of the conical-parallel connection



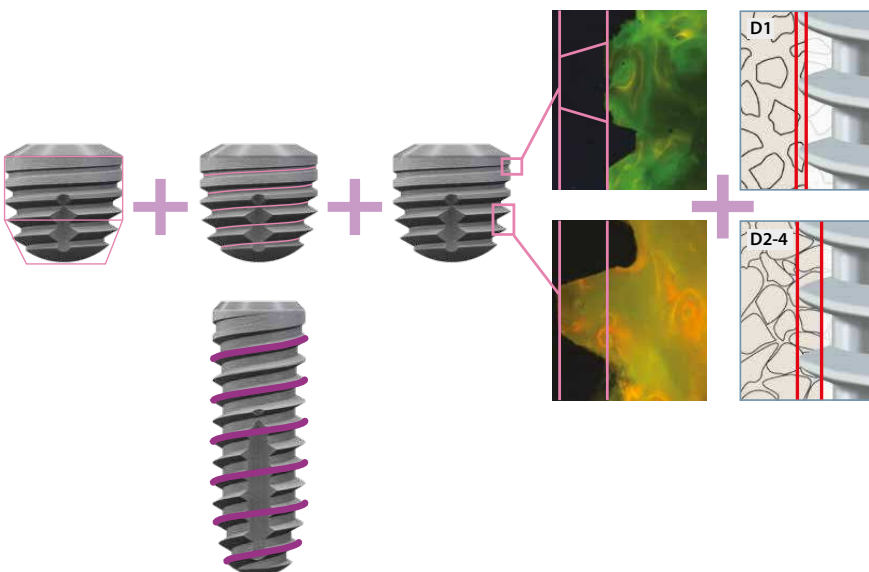
- A single connection geometry for all diameters reduces the number of prosthetic components to simplify stockkeeping and increase process reliability.
- Torx as gold standard for protection against rotation and Screw-in geometry
- Stable and reversible conical-parallel-walled implant-abutment connection for simple removal of the prosthetic restoration.

### osseo-connect-surface (ocs): surface design for improved osseointegration

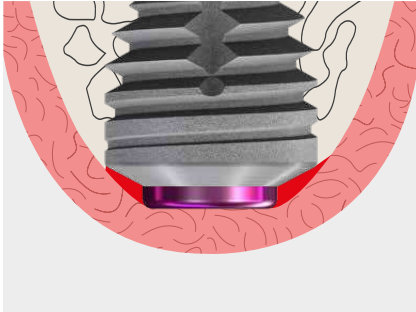


- Around the abutment, the machined surface provides the soft tissue with space for attachment.
- The only etched surface on the backtaper allows both the attachment of hard and soft tissue.
- The blasted etched surface is the gold standard for optimal attachment of osteoblasts for safe and long-lasting osseointegration.

### Implant design and thread properties to increase the primary stability



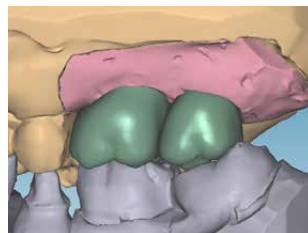
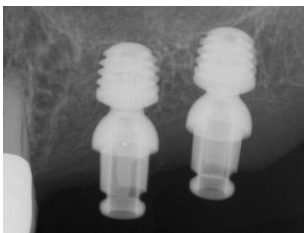
The implant design follows the successful principles of the SKY implant system to achieve high primary stability to enable immediate restoration. The main difference is in the neck design to support the iso-crestal and slightly subcrestal implant position created by the covering of bone chips. The ultrashort copaSKY implants have a single thread and all the longer copaSKY implants have a double thread, so that implants can be set in only four to seven revolutions. This does not traumatise the bone.



Due to the covering of bone chips, the implant position is laid below the bone level.

### **copaSKY indications - ultrashort**

#### **Prevention of augmentations**

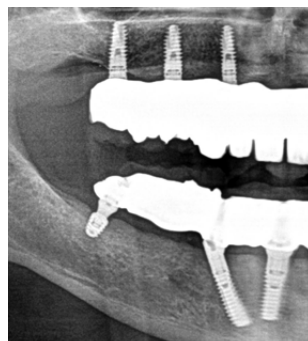


With ultrashort copaSKY implants, augmentation can be avoided, making it easier for patients to choose implant therapy.



In the case of prosthetic restorations with the flexible and yet focused prosthetic portfolio, single teeth and blocked restorations can be carried out.

#### **Avoiding extensions**



A major cause of mechanical complications are long extensions. With the ultrashort copaSKY, biomechanically stable restorations can be reliably produced.

*Photos: PD Dr. Jörg Neugebauer, Landsberg am Lech, Germany*

# copaSKY prosthetic

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## copaSKY - implant overview

### copaSKY ultra short



### copaSKY



Including  
a cover screw 



Description	copaSKY 3.5	copaSKY 4.0	copaSKY 4.5	copaSKY 5.0	copaSKY 6.0
Piece	1	1	1	1	1
Incl. a cover screw	✓	✓	✓	✓	✓
Sholder Ø / mm	3.3	3.3	3.3	3.3	3.3
Implant Ø / mm	3.59	4.09	04:59	05:19	5.99
Height machined/mm	-	-	-	-	1.5
Height etched/mm	0.3	0.4	00:45	0.5	0.6
Height blasted/etched					
5.2 mm	-	4.8	4.75	4.7	4.6
8 mm	7.7	7.6	07:55	7.5	7,4
10 mm	9.7	9.6	09:55	9.5	-
12 mm	11.7	11.6	11:55	11.5	-
14 mm	13.7	13.6	13.0	-	-
16 mm	-	-	-	-	-
5.2 mm					
Single-start screw thread					
max. thread depth / mm	-	00:55	00:55	0.60	0.65
8 - 16 mm					
Double thread					
max. thread depth / mm	00:45	00:45	00:45	00:45	00:45

**copaSKY - Prosthetics overview**



<p><b>BioHPP copaSKY elegance abutments</b></p>  <p>COPAEM00 COPAEM15</p>	<p><b>copaSKY elegance titanium base 0°</b></p>  <p>COPAETBM</p>	<p><b>BioHPP copaSKY elegance prefab</b></p>  <p>COPEPMST</p>	<p><b>copaSKY uni.cone abutments</b></p>  <p>COPAUC01 COPAUC02 COPAUC03 COPUC252 COPUC253 COPUC352 COPUC353</p>
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**SKY uni.cone prosthetic**





SKYUCGF2 SKYUCSNP SKYUCREG SKYdUCLA SKYUCAOL SKYUSCIE SKYUCAGK SKYUCTLA SKYUCPKT SKYUCPKC SKYUCPKK SKYUCPKS

**CAD/CAM open systems**

<p><b>copaSKY uni.fit scan abutment intra- / extraoral</b></p>  <p>COPAUSCI</p>	<p><b>copaSKY prefab titanium set</b></p>  <p>COPPFTST</p>
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**CAD/CAM closed system**

<p><b>copaSKY uni.fit titanium base</b></p>  <p>COPAUTB2 COPAUTB3</p>	<p><b>copaSKY titanium base L for CEREC®</b></p>  <p>COPCTBL2 COPCTBL3</p>
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**Accessories**

<p><b>copaSKY implant analogue 3D-Print</b></p>  <p>COPAIA50 copdIA50</p>	<p><b>copaSKY gingiva former</b></p>  <p>COPAGF22 COPAGF34 COPAGF36</p>	<p><b>copaSKY impression abutment closed tray</b></p>  <p>COPAGL21 COPAGL31</p>	<p><b>copaSKY impression abutment open tray</b></p>  <p>COPAPA22 COPAPA32</p>	<p><b>copaSKY X-tray-templates</b></p>  <p>COPAMS00</p>
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Scale= 1:1, 1,12:1, 1,26:1

**Abutments**

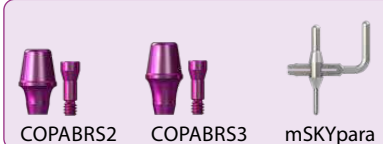
<p><b>copaSKY EXSO abutments</b></p>  <p>COPEX002 COPEX172 COPEX352 COPEX003 COPEX173 COPEX353</p>	<p><b>SKY closed tray impression cap NP</b></p>  <p>SKYnPAKA</p>	<p><b>copaSKY abutment screw M1.6</b></p>  <p>COPASM16</p>	<p><b>copaSKY laboratory screw M1.6</b></p>  <p>COPALM16</p>
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**copaSKY titanium abutments**



COPAPO00 COPAPO15 COPAPO16 COPAPO25 COPAPO26

**copaSKY bridge and bar abutments**



COPABRS2 COPABRS3 mSKYpara

**copaSKY TiSi.snap abutments**



COPTISI2 COPTISI3

# copaSKY prosthetic

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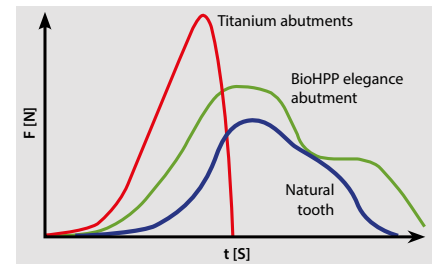
## BioHPP copaSKY elegance abutments

The BioHPP SKY elegance abutments have completed the prosthetic offer for SKY implants for many years. CopaSKY elegance is also characterised by multifunctional application possibilities. The goals are optimised processes in practice and careful treatment processes for the patient. Material properties and convincing construction details of the elegance series are documented in many scientific studies.



For immediate restoration, the elastic BioHPP copaSKY elegance abutment protects the implant from overload during the healing period.

Even with the ultrashort copaSKY implants, the elastic BioHPP SKY elegance abutments act like a shock absorber and protect the implant from overload in the long term.



The maximal load to the implant is reduced by BioHPP.



REF	COPAEM00	COPAEM15	COPEPMST	COPAETBM
Description	BioHPP copaSKY elegance abutment 0°	BioHPP copaSKY elegance abutment 15°	BioHPP copaSKY elegance prefab set CSK	copaSKY elegance titanium base 0°
Piece	1	1	1	1
Angulation	0°	15°	0°	0°
Sholder Ø / mm	5.5	5.5	3.6	3.6
Sholder height / mm	4.0	4.0	-	1.5
Material	Grade 4 KV titanium + BioHPP	Grade 4 KV titanium + BioHPP	Grade 4 KV titanium + BioHPP	Grade 4 KV titanium + BioHPP
Screw M 1.6	incl.	incl.	incl.	incl.
SKY prosthetic key	✓	✓	✓	✓
Torque / Ncm	30	30	30	30
copaSKY ultra short	✓	✓	-	✓



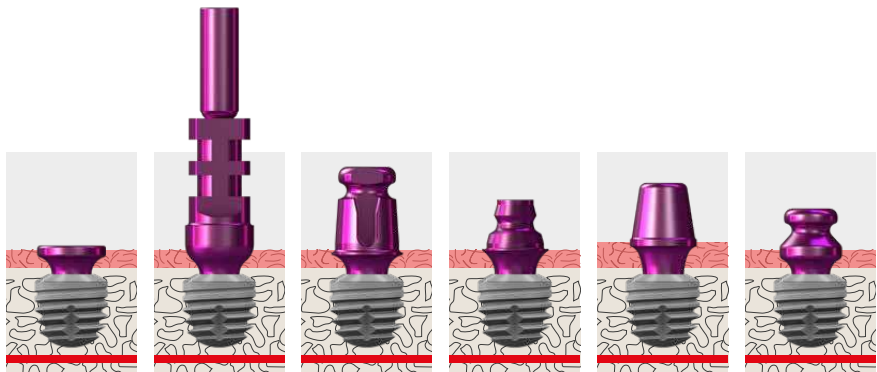
## Tissue Line

Time-saving and process-optimised solutions - with intelligent alternative abutments and innovative crown and bridge materials such as breCAM.HIPC and BioHPP for all abutments. For the veneering of crown abutments we recommend visio.lign.

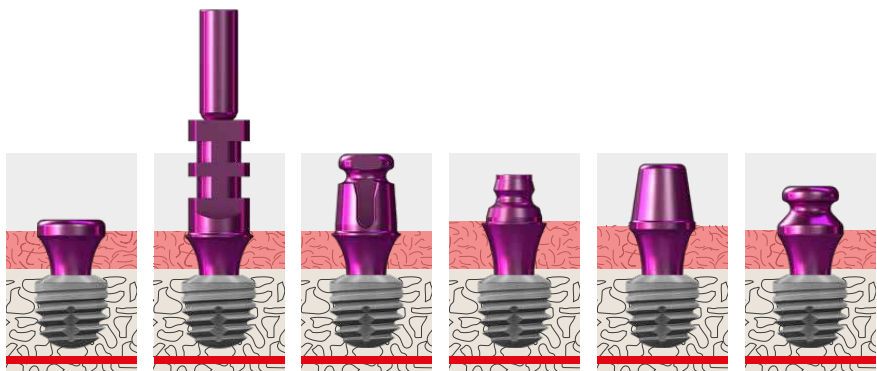
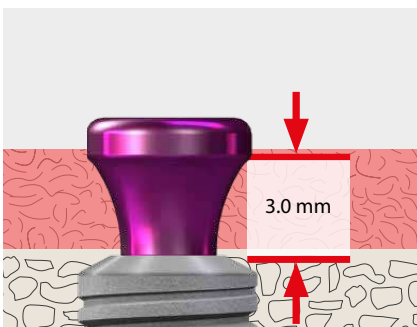


Compared to an abutment with a traditional emergence profile, the tapered and slim copaSKY prosthetics offer the soft tissue a lot of space, even in narrow gaps.

All gingiva genotypes are aesthetically supplied with the two gingiva heights of 1.5 mm and minimum 3 mm.



The high mould is also excellent if the implant is located below the bone level due to the covering of bone chips.

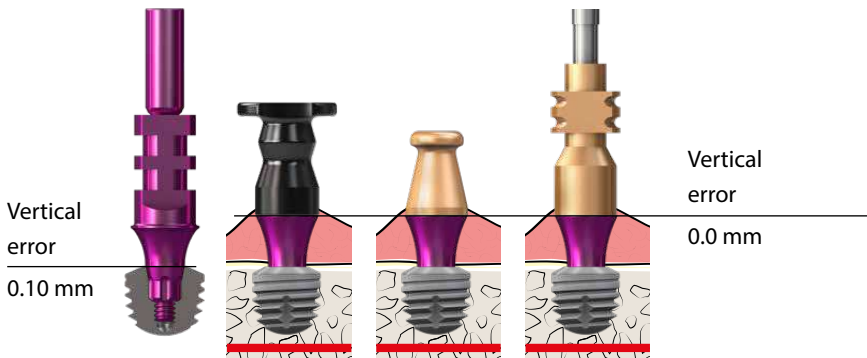


# copaSKY prosthetic

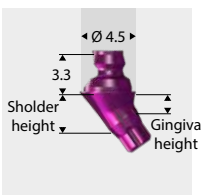
## copaSKY uni.cone for fast & fixed and bridges



Screwed bridge restorations after the SKY fast & fixed therapy are manufactured with the copaSKY uni.cone abutments. To simplify storage, the SKY uni.cone copings are used.

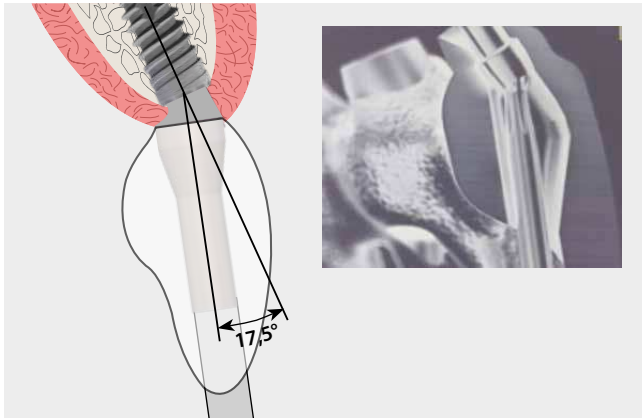


**copaSKY impression for bridge work**  
Depending on the design, the implant level impression of the flat cone causes a vertical error of approx. 0.1 mm. This can be avoided by the abutment level impression, so that the passive fit of the bridge restoration can be easily ensured.

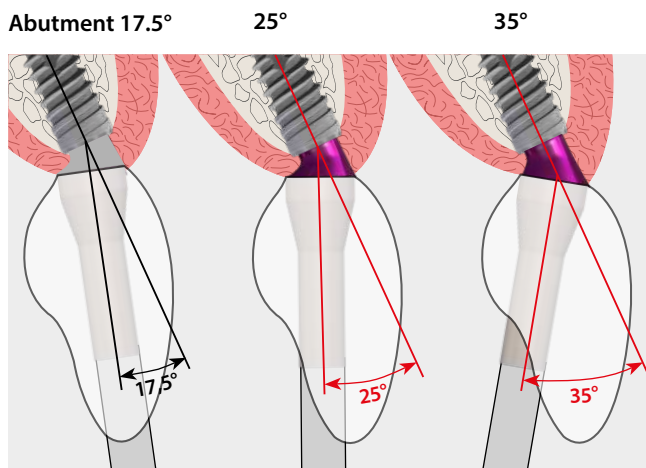


REF	COPAUC01	COPAUC02	COPAUC03	COPUC252	COPUC253	COPUC352	COPUC353
Description	copaSKY uni.cone abutment height 1 mm	copaSKY uni.cone abutment height 2 mm	copaSKY uni.cone abutment height 3 mm	copaSKY uni.cone abutment 25° height 1,5 mm	copaSKY uni.cone abutment 25° height 2,5 mm	copaSKY uni.cone abutment 35° height 1,5 mm	copaSKY uni.cone abutment 35° height 2,5 mm
Piece	1	1	1	1	1	1	1
Angulation	0°	0°	0°	25°	25°	35°	35°
Sholder Ø / mm	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Sholder height / mm	-	-	-	2.95	4.05	3.88	5.1
Gingiva height / mm	1.7	2.7	3.7	1.5	2.5	1.5	2.5
Structure height / mm	3.3	3.3	3.3	3.3	3.3	3.3	3.3
Material	Grade 4 KV titanium	Grade 4 KV titanium	Grade 4 KV titanium	Grade 4 KV titanium	Grade 4 KV titanium	Grade 4 KV titanium	Grade 4 KV titanium
Screw M 1.6	-	-	-	incl.	incl.	incl.	incl.
SKY prosthetic key	✓	✓	✓	✓	✓	✓	✓
Torque / Ncm	30	30	30	30	30	30	30
copaSKY ultra short	✓	✓	✓	-	-	-	-





In many cases an angulation of 17.5° in the anterior region is not sufficient, because the screw channel for the occlusal screw comes to rest in the visible range. Therefore, many users desire angulated screw channels, in order to solve this aesthetic problem. The large space requirements of a traditional angulated screw channel also weakens the construction, so that the choice of materials is limited and aesthetic problems can occur.



With the new, narrow copaSKY uni.cone abutments in 25° and 35°, the screw channel is additionally angled, so that the output of the channel is palatinal. The big advantage is that no special screws and screw-drivers are required.

**SKY uni.cone Prosthetic**



copaSKY uni.cone is supplied with the SKY uni.cone prosthetic copings.

## copaSKY CAD/CAM restorations

The digitisation of the overlapping work steps between practice and laboratory changes the process landscape of the partners with increasing speed. The newly developed prosthetic components for copaSKY are designed for these modern workflows.

### A complete workflow for all open systems

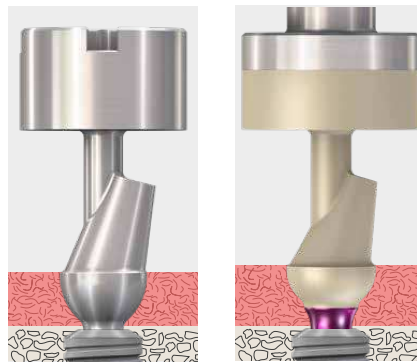
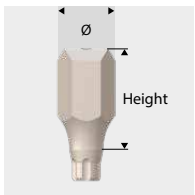


Multi-faceted scan abutment for optimal intraoral and extraoral impression.



3D print analogue for printed models:

- Easy undercut for quickly finding the final position
- Screw for secure fixation; no time-consuming adhesion necessary

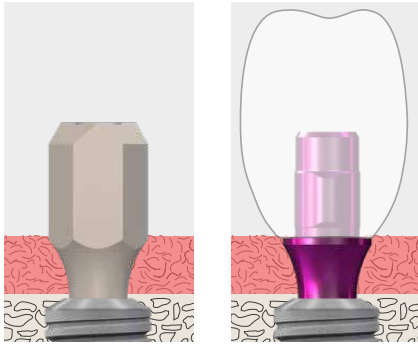


Achieve optimal aesthetics with customised abutments made from the copaSKY titanium or BioHPP prefabs.



REF	COPAUSCI	COPDIA50	COPPFTST	COPEPMST
Description	copaSKY uni.fit scan abutment intraoral / extraoral	copaSKY implant analogue 3D Print	copaSKY prefab titanium set	BioHPP copaSKY elegance prefab set CSK
Piece	1	1	1	1
Angulation	0°	0°	0°	0°
Sholder Ø / mm	-	4.1	-	3.6
Height / mm	8.47	8.5	20	16
Material	Grade 4 KV titanium	Grade 4 KV titanium	Grade 4 KV titanium	Grade 4 KV titanium + BioHPP
Screw M 1.6	incl.	incl.	-	incl.
SKY prosthetic key	✓	✓	-	✓
Torque / Ncm	10	-	30	30
copaSKY ultra short	✓	✓	✓	✓

**A complete workflow for all open systems**



copaSKY uni.fit CAD titanium base for the production of zirconium or lithium disilicate abutments.

The data sets for copaSKY CAD/CAM Abutments can be downloaded for the following CAD programmes:

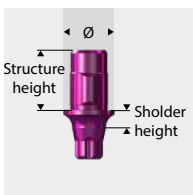
- exoCAD
- DentalWings
- 3 shape

[www.bredent-medical.com/cad-library](http://www.bredent-medical.com/cad-library)

**Titanium basis for the chairside workflow in CEREC®**



With the copaSKY titanium bases L for CEREC®, customised abutments can also be produced in the chairside workflow with CEREC®.



REF	COPAUTB2	COPAUTB3	COPCTBL2	COPCTBL3
Description	copaSKY uni.fit titanium base height 1.5 mm	copaSKY uni.fit titanium base height 3 mm	copaSKY titanium base L for CEREC® height 1.5 mm	copaSKY titanium base L for CEREC® height 3 mm
Piece	1	1	1	1
Angulation	0°	0°	0°	0°
Shoulder Ø / mm	4.2	4.2	4.8	4.8
Shoulder height / mm	1.5	3.0	1.5	3.0
Structure height / mm	5.0	5.0	4.68	4.68
Material	Grade 4 KV titanium	Grade 4 KV titanium	Grade 4 KV titanium	Grade 4 KV titanium
Screw M 1.6	incl.	incl.	-	-
SKY prosthetic key	-	-	-	-
Torque / Ncm	30	30	30	30
copaSKY ultra short	✓	✓	✓	✓

## Opening and model production



Gingiva formers in the most important heights form the gingiva in the classic 2-step procedure:

- Tapered mould analogous to the abutments offer the soft tissue a lot of space
- Broad head protects soft tissue immediately after surgery.



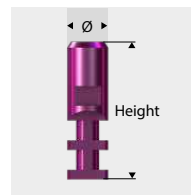
One hundred thousand times proven design of the copaSKY implant analogue for master models:

- Excellent retention
- Sufficient height for gingival mask
- Made of titanium - no material mix



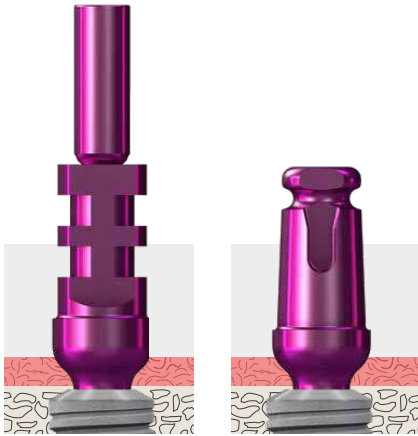
3D print analogue for printed models:

- Easy undercut for quickly finding the final position
- Screw for secure fixation; no time-consuming adhesion necessary

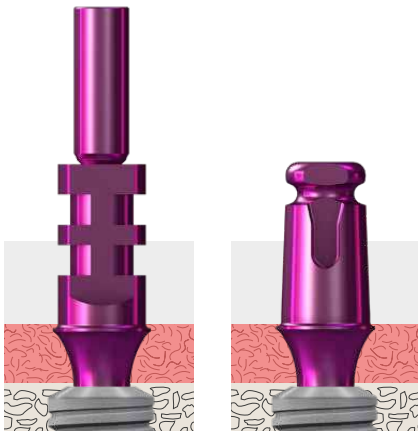


REF	COPAGF22	COPAGF34	COPAGF36
Description	copaSKY gingiva former height 2 mm	copaSKY gingiva former height 4 mm	copaSKY gingiva former height 6 mm
Piece	1	1	1
Angulation	0°	0°	0°
Sholder Ø / mm	4.8	4.8	4.8
Sholder height / mm	2.1	4.0	6.0
Material	Grade 4 KV titanium	Grade 4 KV titanium	Grade 4 KV titanium
Screw 2.2	incl.	incl.	incl.
SKY prosthetic key	✓	✓	✓
Torque / Ncm	10	10	10
copaSKY ultra short	✓	✓	✓

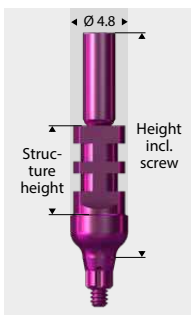
REF	COPAIA50	copdIA50
Description	copaSKY implant analogue	copaSKY implant analogue 3D Print
Piece	1	1
Angulation	0°	0°
Sholder Ø / mm	3.3	4.1
Height	14	8.5
Material	Grade 4 KV titanium	Grade 4 KV titanium
Screw incl.	Laboratory screw	Laboratory screw
SKY prosthetic key	✓	Fastening screw
Torque / Ncm	10	10
copaSKY ultra short	✓	✓



At low gingival heights, the soft tissue is ideally supported by the appropriate height, so that the impression can be precisely made, especially in the aesthetic area. When making the model, there can be no inaccuracies caused by inflowing plaster or artificial gingiva.

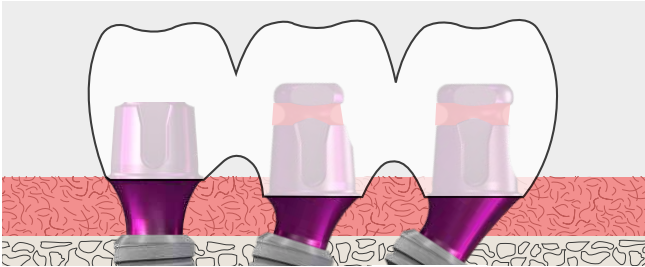


At high gingival heights or deep-rooted implants, the impression is taken with the high impression abutment. The risk of bone collision is low, but must not be neglected. The trapped screw guarantees safe handling.

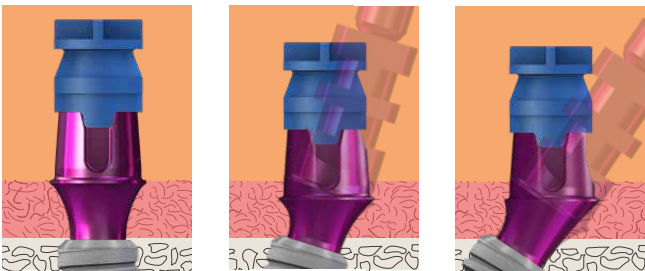


REF	COPAPA22	COPAPA32	COPAGL21	COPAGL31	SKYnPAKA
Description	copaSKY impression abutment open tray height 2 mm	copaSKY impression abutment open tray height 3 mm	copaSKY impression abutment closed tray height 2 mm	copaSKY impression abutment closed tray height 3 mm	SKY closed tray impression cap NP
Piece	1	1	1	1	10
Angulation	0°	0°	0°	0°	0°
Sholder Ø / mm	4.8	4.8	4.8	4.8	
Sholder height / mm	3.6	3.0	3.0	3.0	
Structure height / mm	7.52	8.12	8.0	8.0	
Height incl. screw / mm	18.8	18.8	8.0	8.0	
Material	Grade 4 KV titanium	Grade 4 KV titanium	Grade 4 KV titanium	Grade 4 KV titanium	
Screw 2.2	incl.	incl.	incl.	incl.	
SKY prosthetic key	✓	✓	✓	✓	
Torque / Ncm	10	10	10	10	
copaSKY ultra short	✓	✓	-	✓	

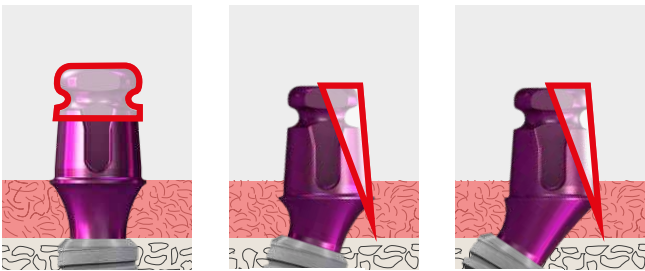
## copaSKY EXSO multifunction abutment



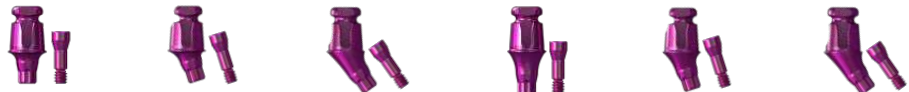
- Cemented crowns and bridge restorations are carried out on copaSKY EXSO abutments simply, quickly and aesthetically, the procedure is highly economic, as impression abutment = definitive abutment



- Easy impression taking of angulated implants at the implant level by angulation compensation up to 40°
- Use of the SKY impression coping for closed trays (REF SKYnPAKA)



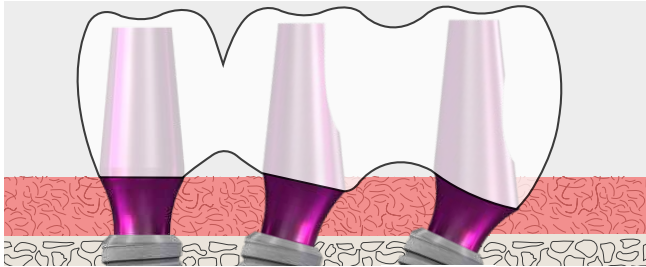
- The easy customisation of the abutments in the laboratory create the prerequisites for an optimally designed aesthetic



REF	COPEX002	COPEX172	COPEX352	COPEX003	COPEX173	COPEX353
Description	copaSKY EXSO abutment 0° height 1,5 mm	copaSKY EXSO abutment 17,5° height 1 mm	copaSKY EXSO abutment 35° height 1 mm	copaSKY EXSO abutment 0° height 3 mm	copaSKY EXSO abutment 17,5° height 2 mm	copaSKY EXSO abutment 35° height 2 mm
Piece	1	1	1	1	1	1
Angulation	0°	17.5°	35°	0°	17.5°	35°
Sholder Ø / mm	4.8	4.8	4.8	4.8	4.8	4.8
Sholder height / mm	1.5	2.24	3.51	3.0	3.17	4.6
Gingiva height / mm	1.5	1.0	1.0	3.0	2.0	2.0
Structure height / mm	5.55	5.55	5.55	5.55	5.55	5.55
Material	Grade 4 KV titanium	Grade 4 KV titanium	Grade 4 KV titanium	Grade 4 KV titanium	Grade 4 KV titanium	Grade 4 KV titanium
Screw M 1.6	incl.	incl.	incl.	incl.	incl.	incl.
SKY prosthetic key	✓	✓	✓	✓	✓	✓
Torque / Ncm	30	30	30	30	30	30
copaSKY ultra short	✓	✓	-	✓	✓	-

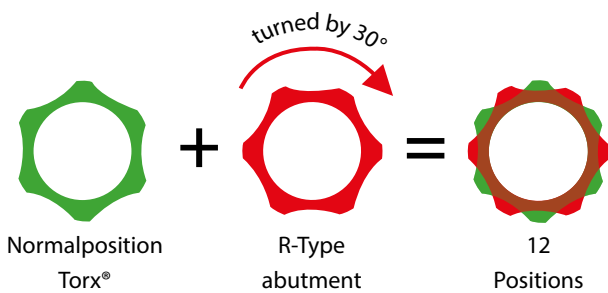


**copaSKY titanium abutment**



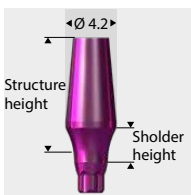
Proven universal mould for the economical restoration of cemented crowns and bridges with all prosthetic materials:

- Metal ceramics
- All-ceramic
- Physiological prosthetics with BioHPP and visio.lign



R-version for 12 positions for optimal alignment of the angulated abutments, in order to perform the customisation efficiently.

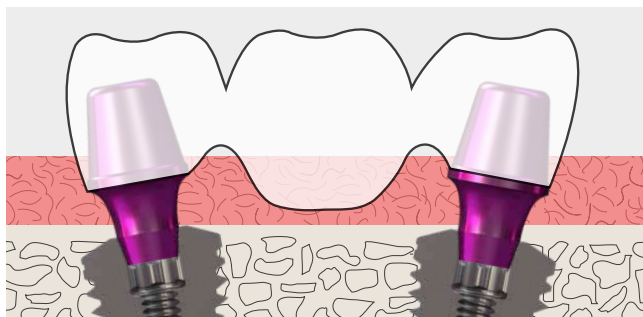
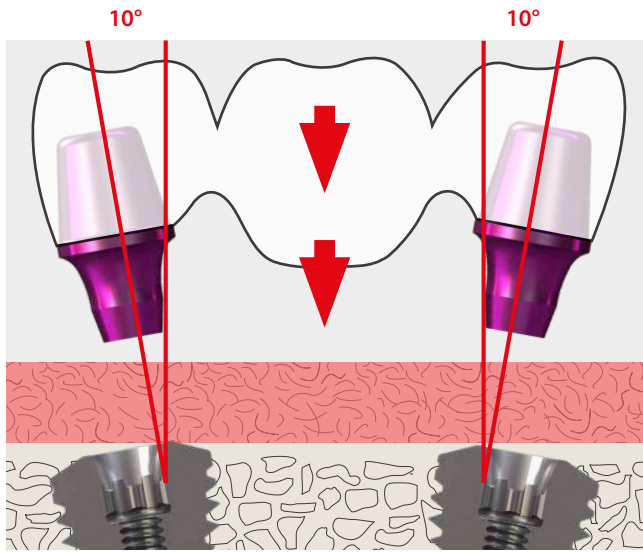
During the surgical procedure, it is not necessary to pay attention to the alignment of the antirotational mechanism of the implant.



REF	COPAPO00	COPAPO15	COPAPO16	COPAPO25	COPAPO26
Description	copaSKY titanium abutment 0° height 3 mm	copaSKY titanium abutment 15° height 3 mm	copaSKY titanium abutment 15° R height 3 mm	copaSKY titanium abutment 25° height 3 mm	copaSKY titanium abutment 25° R height 3 mm
Piece	1	1	1	1	1
Angulation	0°	15°	15°	25°	25°
Sholder Ø / mm	4.2	4.4	4.4	4.8	4.8
Sholder height / mm	3.0	3.0	3.0	3.0	3.0
Structure height / mm	7.0	7.45	7.45	7.45	7.45
Material	Grade 4 KV titanium	Grade 4 KV titanium	Grade 4 KV titanium	Grade 4 KV titanium	Grade 4 KV titanium
Screw	incl.	incl.	incl.	incl.	incl.
SKY prosthetic key	✓	✓	✓	✓	✓
Torque / Ncm	30	30	30	30	30
copaSKY ultra short	✓	✓	✓	-	-

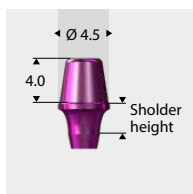
# copaSKY prosthetic

## copaSKY bridge and bar abutment



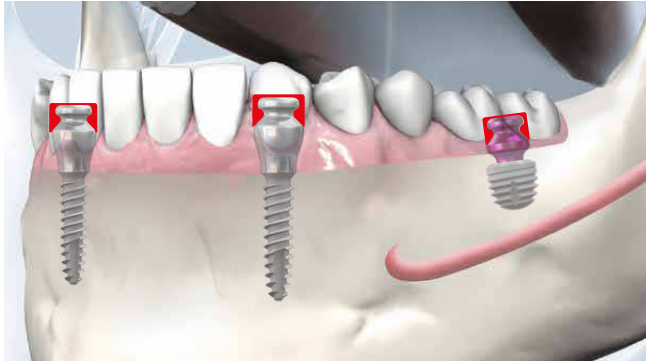
The copaSKY bridge abutment has no antirotational mechanism. The low cone connection allows 20° angulation compensation between two implants, so that the bridges can be stuck together in the laboratory.

The construction can be easily integrated and occlusally screwed. The long cone directs the lateral and occlusal forces directly into the implant and therefore protects the screw against loosening and breakage.



REF	COPABRS2	COPABRS3	mSKYpara
Description	copaSKY bridge and bar abutment height 2,7 mm	copaSKY bridge and bar abutment height 3,7 mm	miniSKY 0° parallelization tool
Piece	1	1	1
Angulation	0°	0°	-
Ø / mm	-	-	-
Sholder Ø / mm	4.5	4.5	-
Sholder height / mm	2.7	3.7	-
Structure height / mm	4.0	4.0	-
Material	Grade 4 KV titanium	Grade 4 KV titanium	Stainless steel
Screw M 1.6	incl.	incl.	-
SKY prosthetic key	✓	✓	-
Torque / Ncm	30	30	-
copaSKY ultra short	✓	✓	-

**copaSKY TiSi.snap prosthesis fixation**



With an ultrashort copaSKY implant posterior, you can use the existing residual bone and provide the patient with a stably anchored prosthesis with little surgical effort.



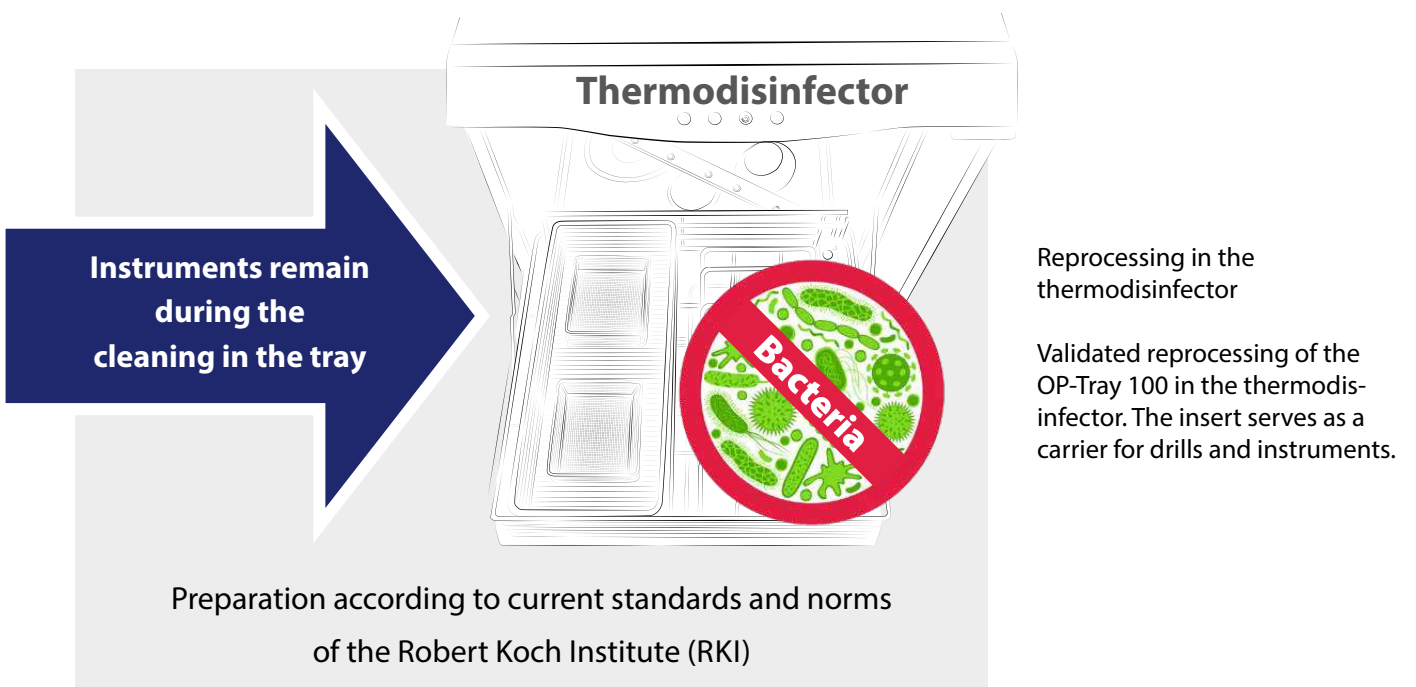
Resilient retention.sil is particularly suitable for fixing prostheses, because it gives the patient a natural chewing feeling.

TiSi.snap is also suitable for use with the locator retention elements.

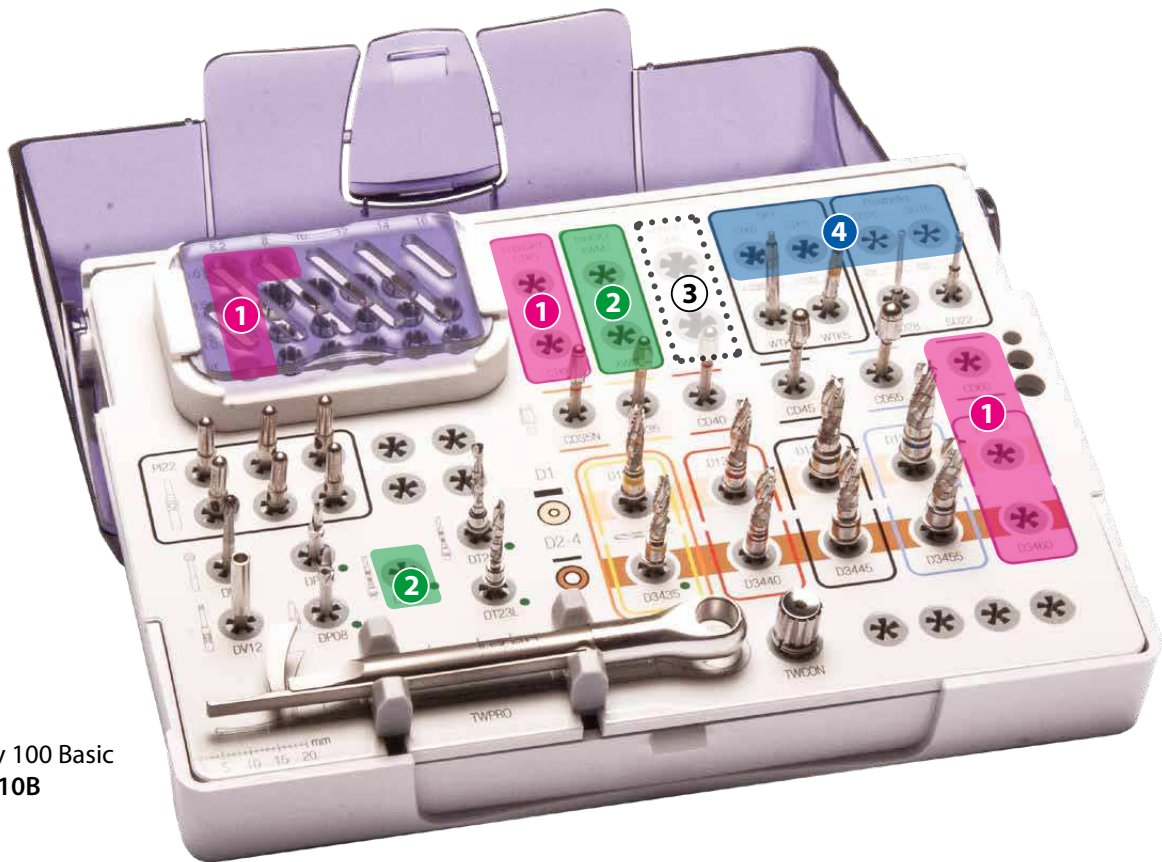


REF	COPTISI2	COPTISI3	SKYUCAGK COPUC253	SKYUCAGK COPUC353	580RTSET	LOCLAB20
Description	copaSKY TiSi.snap abutment height 1,5 mm	copaSKY TiSi.snap abutment height 3 mm	SKY uni.cone Impression sealed short copaSKY uni.cone abutment 25° height 2,5 mm	SKY uni.cone Impression sealed short copaSKY uni.cone abutment 35° height 2,5 mm	retention.sil set contains retention. sil in 3 hardnesses in the double mixing cartridge + Multisil-Primer	Locator® Processing set 10°-20°
Piece	1	1				2 sets
Angulation	0°	0°	25°	35°		-
Sholder Ø / mm	4.5	4.5				-
Gingiva height / mm	1.5	3.0				-
Structure height / mm	3.31	3.31				-
Material	Grade 4 KV titanium	Grade 4 KV titanium				Titanium/Teflon/ Nylo
SKY prosthetic key	✓	✓				-
Torque / Ncm	30	30				-
copaSKY ultra short	✓	✓				-

## OP-Tray – one for all



## OP-Tray – Upgrade Kit



SKY OP-Tray 100 Basic  
REF SKYOT10B

A study by the University of Belgrade shows that the use of SKY drills only causes low heat generation in the bone.

Source: Marković et al: Heat generation during implant placement in low-density bone: effect of surgical technique, insertion torque and implant macro design. Clin Oral Implants Res. 2013 Jul;24(7):798-805. doi: 10.1111/j.1600-0501.2012.02460.x. Epub 2012 Apr 2.

## Upgrade Kits for the new OP-Tray 100 Basic

**1** copaSKY Upgrade Kit  
Drills and instruments  
REF COPAUPGK

**2** miniSKY Upgrade Kit  
Drills and instruments  
REF mSKYUPGK

**3** whiteSKY Upgrade Kit  
Instruments  
REF wSKYUPGK

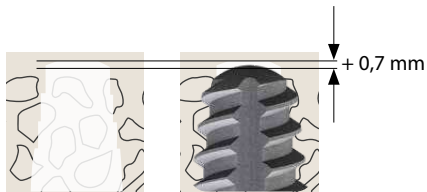
**4** Torque Wrench Pro Upgrade Kit  
Instruments  
REF TWreUPGK





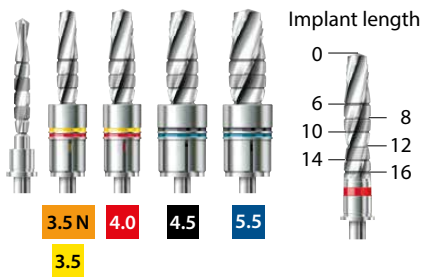
## SKY drill

The SKY drills are slightly undersized compared to the corresponding implants. The compression of the cancellous bone achieves a high primary stability, so that in more than 90% of cases immediate restoration is possible.



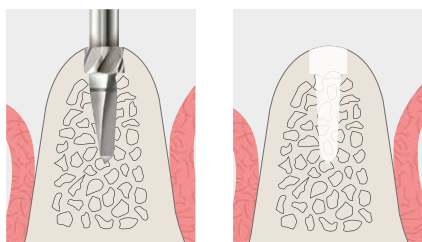
### Drilling depth

The drilling depth is 0.7 mm lower than the implant length, unless stated otherwise.



### Detachable drills stops

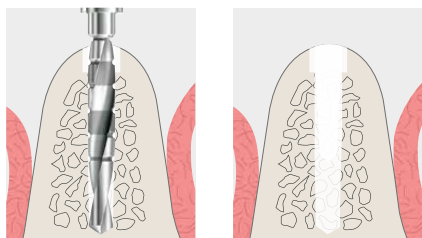
The detachable drill stops are arranged so that they can be easily taken up with the drill and fastened with one hand thanks to the cavities in the OP-Tray insert.



### SKY pilot drill

The pilot drill determines the position of the implant. The sharp tip minimises the risk of slipping. The crestal dental drill removes 3 mm cortical bone.

For the ultrashort copaSKY implants, only insert the pilot drill to the laser mark.



### SKY twist drill

The twist drill sets the angulation and depth of the cavity. With its diameter of 2.25 mm, it is much smaller than the cortical space created by the pilot drill, so that there is enough clearance to optimally align the axial direction.

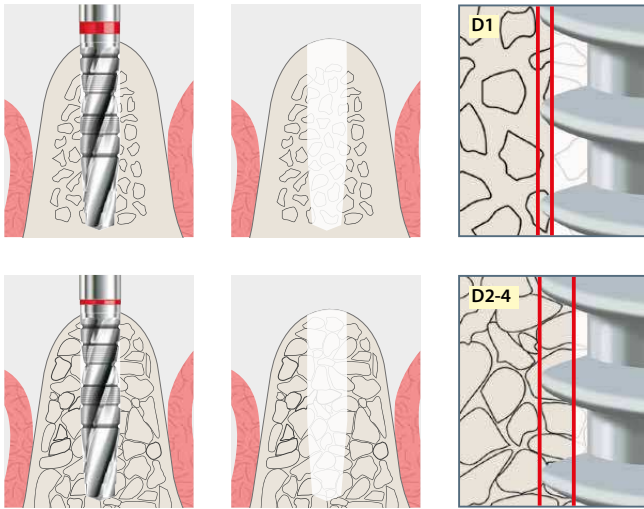


REF	SKY-DP06	SKY-DP08	SKYDT13L	SKYDT23K	SKYDT23L
Description	SKY pilot drill short shaft	SKY pilot drill long shaft	SKY Twistdrill	SKY Twistdrill short	SKY Twistdrill long
Piece	1	1	1	1	1
Connection	ISO 1797	ISO 1797	ISO 1797	ISO 1797	ISO 1797
Total length/mm	26	34	41	41	36
Working length/mm	8.75	8.75	14.7	16.15	16.15
Ø/mm crestal	3.1	3.1	1.3	2.25	2.25
	800-1000	800-1000	800-1000	800-1000	800-1000



## SKY final drill

The final drill is available per diameter in two lines. The hard bone diameter is 0.14 mm larger than that for medium-hard and soft bones.



**Hard bone**  
Atraumatic tapping thanks to reduced contact area.

**Medium-hard and soft bone**  
Apical compression thanks to increased contact area.

Consistently high primary stability

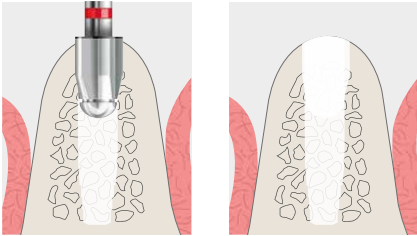


REF	SKYD1235	SKYD1240	SKYD1245	SKYD1255	COPD1260
Description	SKY Drill for hard bone 3.5N 3.5	SKY Drill for hard bone 4.0	SKY Drill for hard bone 4.5	SKY Drill for hard bone 5.5	copaSKY Drill for hard bone 6.0
Piece	1	1	1	1	1
Connection	ISO 1797	ISO 1797	ISO 1797	ISO 1797	ISO 1797
Total length/mm	37	37	37	37	33
Working length/mm	16.2	16.2	14.7	14.7	13.5
Ø/mm crestal	3.3	3.8	4.3	4.9	5.7
rpm	300	300	300	300	300



REF	SKYD3435	SKYD3440	SKYD3445	SKYD3455	COPD3460
Description	SKY Drill for medium and soft bone 3.5N 3.5	SKY Drill for medium and soft bone 4.0	SKY Drill for medium and soft bone 4.5	SKY Drill for medium and soft bone 5.5	copaSKY Drill for medium and soft bone 6.0
Piece	1	1	1	1	1
Connection	ISO 1797	ISO 1797	ISO 1797	ISO 1797	ISO 1797
Total length/mm	37	37	37	37	33
Working length/mm	16.2	16.2	14.7	14.7	13.5
Ø/mm crestal	3.06	3.56	4.06	4.66	05:46
rpm	300	300	300	300	300

## SKY drill



### SKY crestal drill

The crestal drills are necessary to avoid pressure on the cortical bone, as the compression of the cortical bone may lead to decay.

### Comment:

For copaSKY implants with a Ø 3.5 mm a narrowSKY crestal drill 3.5 N (orange, SKYCD35n) is used.

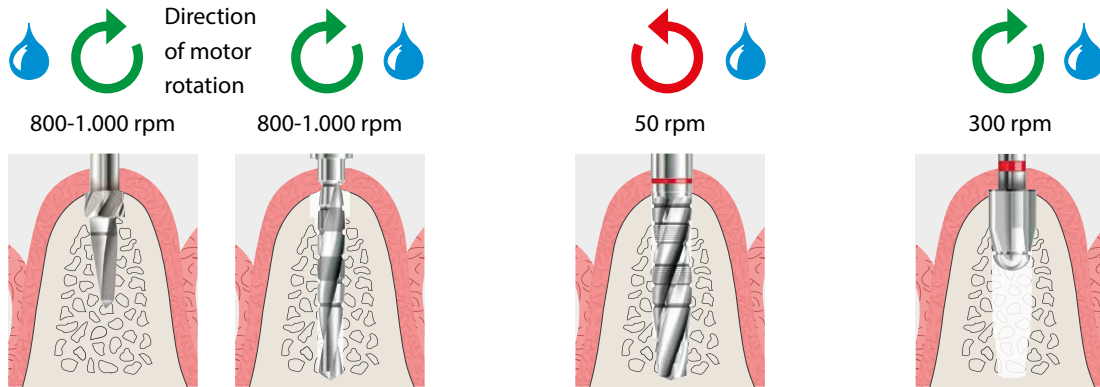


REF	SKYCD35n	SKYXCD40	SKYXCD45	SKYXCD55	SKYXCD60
Description	narrowSKY Crestal drill 3.5N	SKY Crestal drill 4.0	SKY Crestal drill 4.5	SKY Crestal drill 5.5	SKY Crestal drill 6.0
Piece	1	1	1	1	1
Connection	ISO 1797	ISO 1797	ISO 1797	ISO 1797	ISO 1797
Total length/mm	31	31	31	31	31
Working length/mm	8.5	7.0	7.0	7.55	07:55
Ø/mm crestal	3.6	4.1	4.6	5.2	6.0
rpm	300	300	300	300	300

Drill stops		L5.2	L6	L8	L10	L12	L14	L16
Twistdrill	REF	COPAXS05	SKYXST06	SKYXST08	SKYXST10	SKYXST12	SKYXST14	SKYXST16
Drill	REF	COPS0540	-	SKYS0840	SKYS1040	SKYS1240	SKYS1440	SKYS1640
Drill	REF	COPS0550	-	SKYS0845	SKYS1045	SKYS1245	SKYS1445	-
Drill	REF	COPS0560	-	COPS0860	-	-	-	-

## Improved primary stability – For very soft bone types

If it is determined during the pilot drilling or drilling with the twist drill that the bone is very soft, the primary stability can be improved by amending the clinical protocol. In these cases, we recommend using the final drill anticlockwise as a condensation instrument:



The pilot drill and twist drill are used as described in the SKY surgical protocol.

The final drill is used anticlockwise slowly with cooling. This way, the available bone is compressed and no bone particles are lost.

During slow processing a lot of bone chips can be obtained.

The crestal drill is used in accordance with the surgical protocol.

## SKY Surgical protocol – In cases of excessive torque

Torque for implant insertion > 45 Ncm.

Unscrew the implant by 1 to 2 turns. wait approx. 10 seconds

Screw implant down to its final position again.

Direction of rotation



Literature:

Neugebauer J. Habilitationsschrift: Design- und Behandlungsparameter für die erfolgreiche Sofortversorgung von Zahnimplantaten. Universität Köln 2009.

# Surgical protocol *Freehand*

## copaSKY Surgical protocol



copa  
**SKY**  
IMPLANT SYSTEM

Implant length

8, 10, 12, 14 mm

5,2, 8, 10, 12, 14 mm

Crestal drill

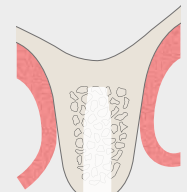
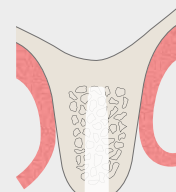


300 rpm.

3.5 N

4.0

Hard bone D1

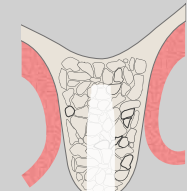
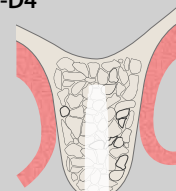


300 rpm.

3.5 N

4.0

Medium hard / soft bone D2-D4



300 rpm.

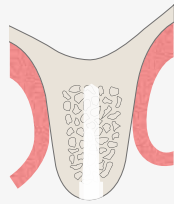
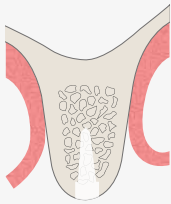
3.5 N

4.0

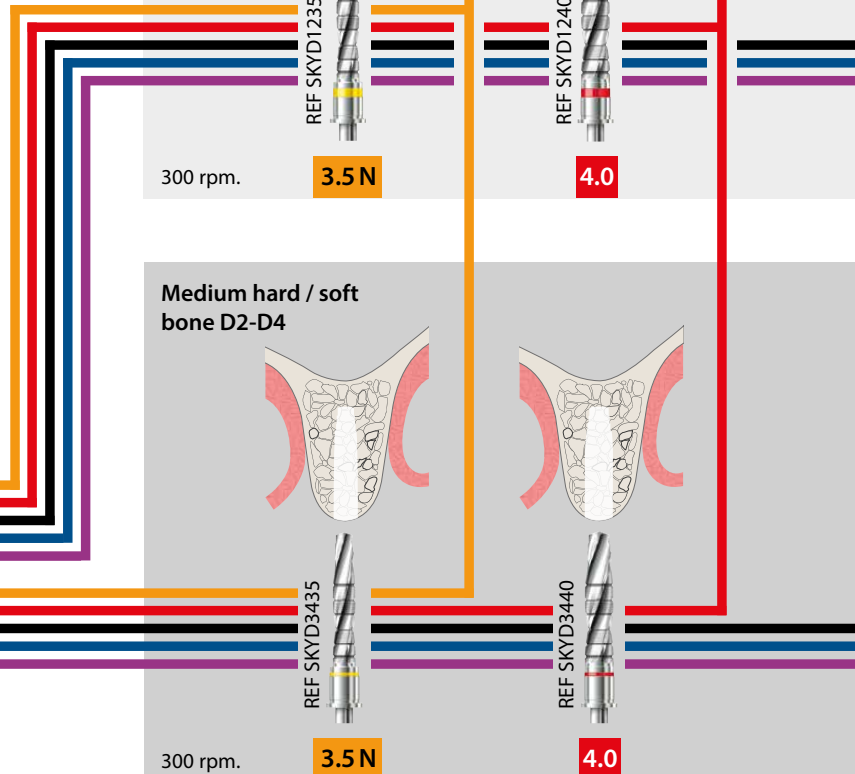
Pilot drill



Twistdrill



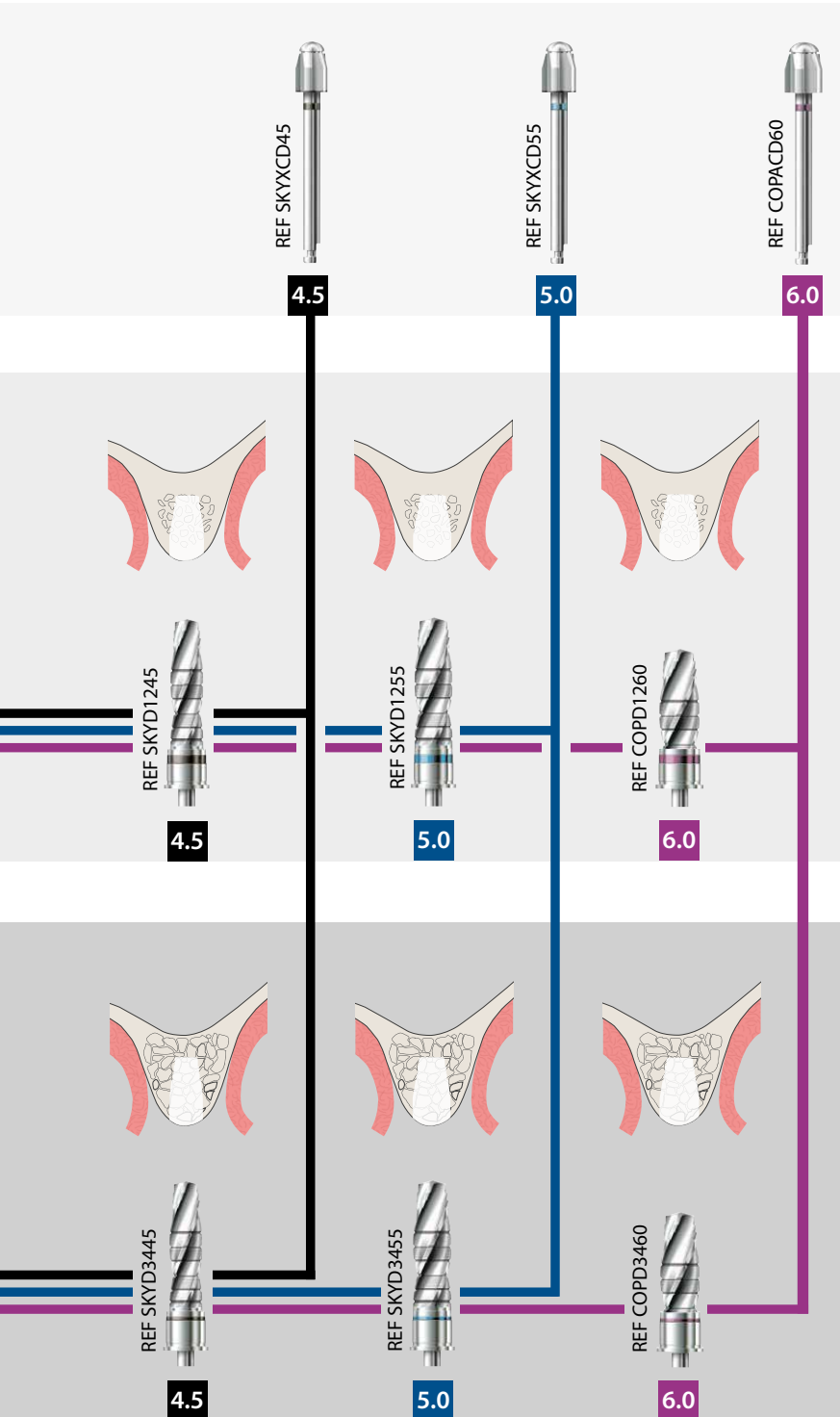
800 - 1.000 rpm.



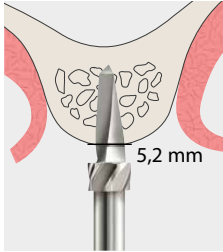
5.2, 8, 10,  
12, 14 mm

5.2, 8, 10,  
12 mm

5.2  
8 mm



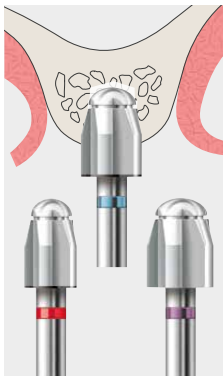
## Special features copaSKY ultrashort



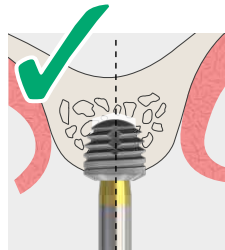
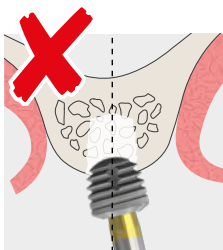
For the ultrashort copaSKY implants (REF copa4005, copa5005, copa6005), the pilot drill is only used up to the laser mark.



The drilling depth when using the drill stops for 5.2 mm is 5.7 mm. The clearance under the implant is 0.5 mm.



The crest drill is inserted to the stop.



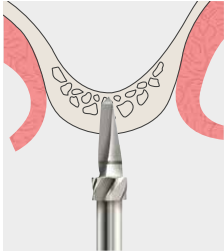
### Caution!

When screwing in, the implant axis slightly deviates from the drilling axis of the cavity, as the implant is very short.

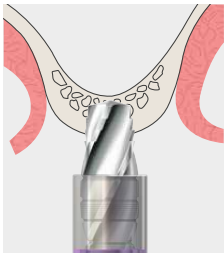
When inserting the implant with an angle piece, the axis can be better controlled.



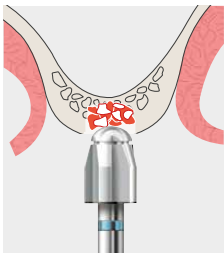
## Internal sinus floor elevation with copaSKY ultrashort



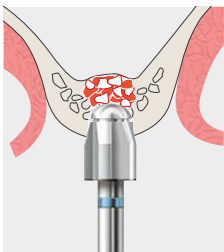
Carefully treatment of the cavity to the bony margin of the sinus floor.



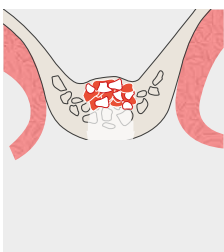
The further treatment takes place according to the copaSKY drill protocol up to the required diameter. To protect, place the drill stop.



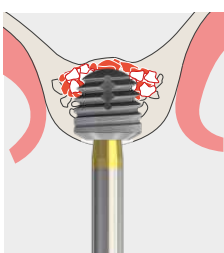
Before using the crestal drill, insert bone reconstruction material into the cavity. Do not use any sharp-edged bone reconstruction material. With the rounded tip of the crestal drill on the bone reconstruction material, the bony margin of the sinus floor is gently pressed.



The process can be repeated several times until the desired depth of the cavity is attained.



Before inserting the implant, make sure that the bone reconstruction material has been introduced evenly, so as to avoid an axial misalignment of the implant.



The final step of lifting the sinus floor is to insert the implant with the introduction of the bone reconstruction material.

# Accessories and instruments

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## Surgical tools

*copa*  
**SKY** 



copaSKY TK mounter for contra-angle short  
REF copaCTK5

copaSKY TK mounter for contra-angle long  
REF copaCTK6

*classic*  
**SKY** 

*blue*  
**SKY** 

*narrow*  
**SKY** 



SKY TK mounter for ratchet short  
REF SKY-STK5

SKY TK mounter for ratchet long  
REF SKY-STK6

SKY TK mounter for contra-angle short  
REF SKY-WTK5

SKY TK mounter for contra-angle long  
REF SKY-WTK6

*mini*  
**SKY** 



miniSKY insertion instrument for contra-angle short  
REF mSKYXWM6

miniSKY insertion instrument for contra-angle  
REF mSKYXWM7

*white*  
**SKY**



whiteSKY mounter for ratchet  
REF SKYC-SM6

whiteSKY mounter for ratchet  
REF SKYC-WM6

*copa*  
**SKY** 

*classic*  
**SKY** 

*blue*  
**SKY** 

*narrow*  
**SKY** 

*mini*  
**SKY** 

*white*  
**SKY**

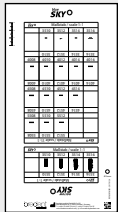


SKY Connector Pro for contra-angle  
REF SKYTWCN

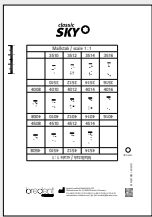
Parallel indicator with conical and cylindrical side, thicker central area with hole for protection against accidental dropping  
REF SKY-PI22

SKY fast & fixed angulation aid set 35°  
REF SKYFFS35

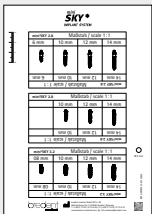
miniSKY 0° parallelization tool  
REF mSKYpara



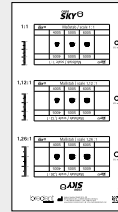
blueSKY / narrowSKY  
X-ray-templates  
Scale 1:1 REF bSKYMS01  
Scale 1.12:1 REF bSKYMS12  
Scale 1.26:1 REF bSKYMS26



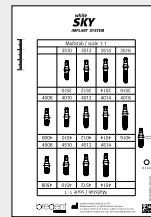
SKY classic X-ray-templates  
Scale 1:1 REF kSKYMS01  
Scale 1.12:1 REF kSKYMS12  
Scale 1.26:1 REF kSKYMS26



miniSKY X-ray-templates  
Scale 1:1 REF mSKYMS01  
Scale 1.12:1 REF mSKYMS12  
Scale 1.26:1 REF mSKYMS26



copaSKY X-ray-templates  
Scale 1:1 REF COPAMS00  
Scale 1.12:1  
Scale 1.26:1



whiteSKY X-ray-templates  
Scale 1:1 REF SKYMS01C  
Scale 1.12:1 REF SKYMS12C  
Scale 1.26:1 REF SKYMS26C

# Accessories and instruments

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## Torque Wrench Pro



SKY Torque Wrench Pro set

incl. SKY Connector

Precise display of the torques from 10 to 45 Ncm

REF SKYTWSET



- Gingiva former and impression abutment (10 Ncm)
- SKY fast & fixed / uni.cone copings (18 Ncm)
- Fasten all copaSKY abutments at a torque of 30 Ncm
- Range for primary stability for immediate restoration 30 – 45 Ncm (40 Ncm for improved orientation)



Easy to clean:

- The head separates easily from the handle using finger pressure
- Easy to reassemble after cleaning
- Done



SKY Connector Pro

- For contra-angle handpiece instruments
- Snaps firmly into the ratchet by pushing with your thumb
- Easy to remove by pushing with your thumb

**Prosthetic tools**



SKY prosthetic key short  
**REF SKY-SD16**

SKY prosthetic key long  
**REF SKY-SD25**

SKY Connector Pro for contra-angle  
**REF SKYTWCON**

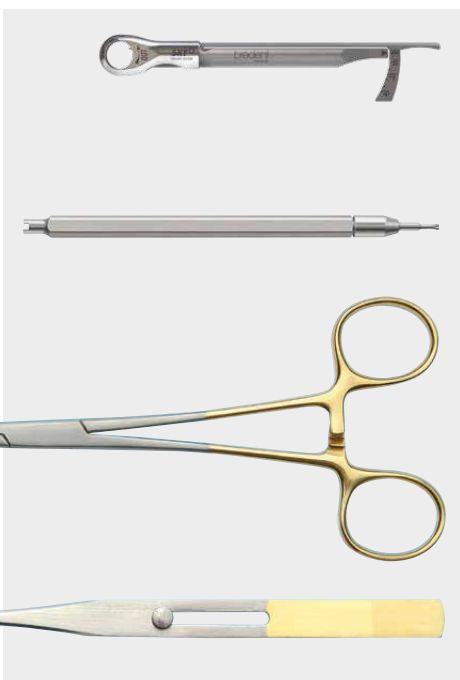
SKY prosthetic key for contra-angle short  
**REF SKY-SD22**

SKY prosthetic key for contra-angle long  
**REF SKY-SD28**

Screwdriver 6 long Allen 0.9 contra-angle  
for transversal screw-retention  
**REF 310W0106**

Locator® insert for contra-angle  
**REF LOCZWED6**

Locator® core tool  
**REF LOCZINST**



SKY Torque Wrench Pro  
Precise display of the torques from 10 to 45 Ncm  
**REF SKYTWPRO**

SKY Laboratory handle incl. SD-22  
• Work end for insertion of contra-angle handpieces  
• Work end for ball head screw (corresponds to SKY-SD21)  
**REF SKY-SD80**

SKY Universal forceps  
Titanium nitrite-coated grip surface  
Holding of implants and abutments  
Oral securing of the prosthetic key  
**REF SKY-SD60**

SKY Key holder  
• Oral securing of the prosthetic key  
**REF SKY-SD65**



In 2003, the success story of the SKY implant system began. To date, dentists and dental technicians around the world have confidently selected over 1 million SKY implants and around 2.5 million prosthetic parts of our system to restore their patients' function, aesthetics and quality of life.

blueSKY is the world's most successful titanium implant in the field of immediate restoration. Equipped with excellent primary stability, blueSKY is the heart of our therapy concept SKY fast & fixed for edentulous or toothless jaws. In combination with physiological materials such as BioHPP and the aPDT according to HELBO (Antibacterial Photodynamic Therapy), patients with SKY fast & fixed have been successfully treated since 2007.

The bredent group set a further milestone in implantology in Autumn 2019, with the development of the new copaSKY implant line - the first titanium implant with a conical-parallel hybrid connection for even greater surgical freedom with simultaneously unrivalled prosthetic precision.

Become part of the SKY Community and discover the many possibilities of sustainably increasing your success in practice and laboratory with therapy solutions and service offerings of the bredent group and making your patients happy.



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