copa SKY

Presentation of the system

Unique prosthetic solutions

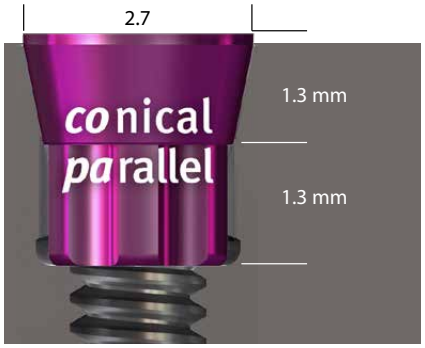
DENTAL INNOVATIONS
SINCE 1974

bredent group

copaSKY implant design

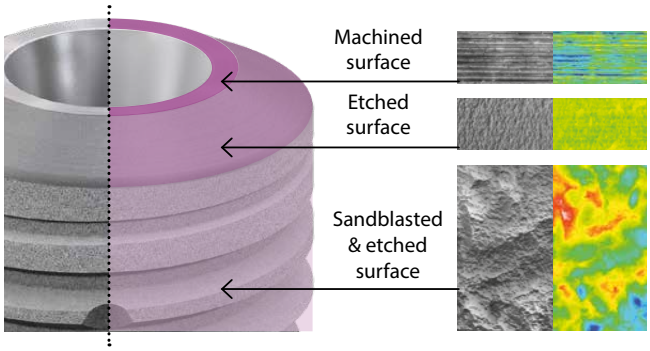
Based on the successful ultrashort implants, copaSKY has been further developed into a complete implant line available in all lengths and diameters. It has a conical-parallel-walled internal connection and a focused prosthetic portfolio that leaves nothing to be desired.

The benefits of the conical-parallel connection



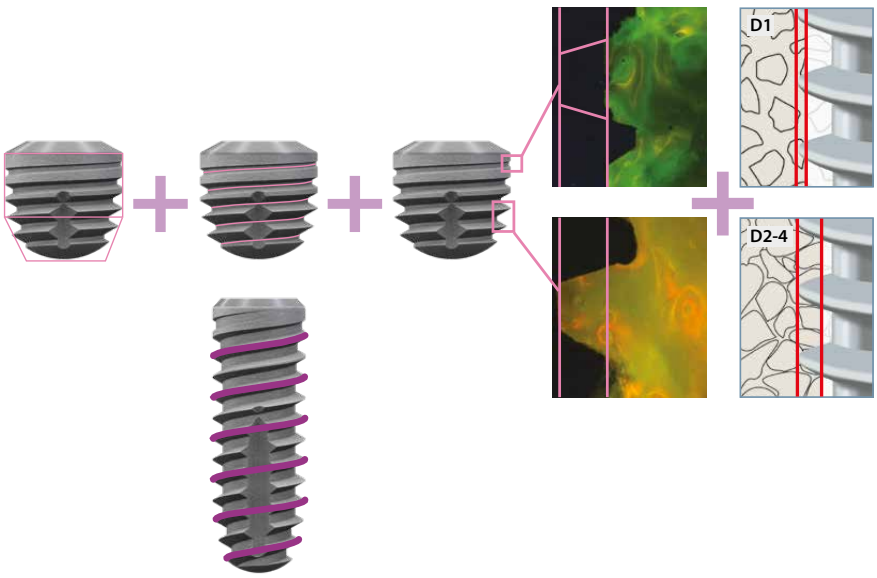
- A single connection geometry for all diameters reduces the number of prosthetic components to simplify stockkeeping and increase process reliability.
- Torx as gold standard for protection against rotation and Screw-in geometry
- Stable and reversible conical-parallel-walled implant-abutment connection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

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

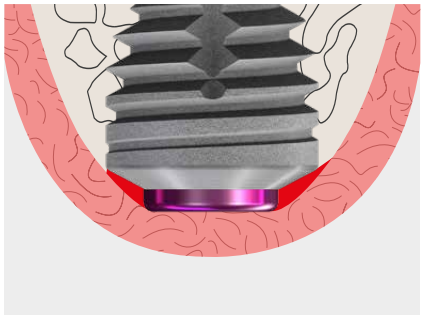


Around the abutment, the machined surface provides the soft tissue with space for attachment.
The only etched surface on the backtaper allows both the attachment of hard and soft tissue.
The blasted etched surface is the gold standard for optimal attachment of osteoblasts for safe and long-lasting osseointegration.

Implant design and thread properties to increase the primary stability



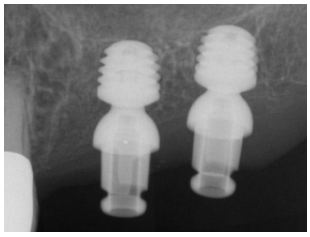
The implant design follows the successful principles of the SKY implant system to achieve high primary stability to enable immediate restoration.
The main difference is in the neck design to support the iso-crestal and slightly subcrestal implant position created by the covering of bone chips. The ultrashort 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.

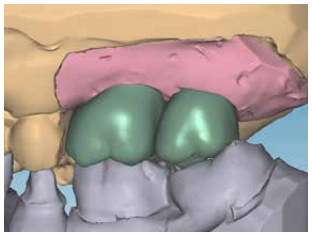


Due to the covering of bone chips, the implant position is laid below the bone level.

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

copaSKY - implant overview

copaSKY ultra short

4.0	
Length	REF
5.2 mm	copa4005

4.5	
Length	REF
5.2 mm	copa4505

5.0	
Length	REF
5.2 mm	copa5005

6.0	
Length	REF
5.2 mm	copa6005

copaSKY

3.5	
Length	REF
8 mm	copa3508
10 mm	copa3510
12 mm	copa3512
14 mm	copa3514

4.0	
Length	REF
8 mm	copa4008
10 mm	copa4010
12 mm	copa4012
14 mm	copa4014

4.5	
Length	REF
8 mm	copa4508
10 mm	copa4510
12 mm	copa4512
14 mm	copa4514

5.0	
Length	REF
8 mm	copa5008
10 mm	copa5010
12 mm	copa5012

6.0	
Length	REF
8 mm	copa6008

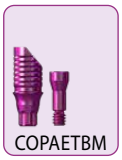
Including
a cover screw

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

BioHPP copaSKY elegance abutments

copaSKY elegance titanium base 0°



BioHPP copaSKY elegance prefab

copaSKY uni.cone abutments

SKY uni.cone prosthetic

CAD/CAM open systems

copaSKY uni.fit scan abutment intra- / extraoral

copaSKY prefab titanium set

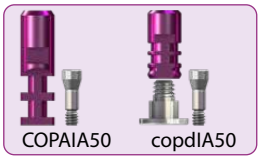
copaSKY uni.fit titanium base

CAD/CAM closed system

copaSKY titanium base L for CEREC®

Accessories

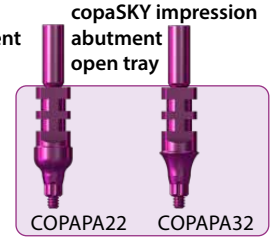
copaSKY implant analogue 3D-Print



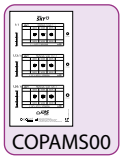
copaSKY gingiva former

copaSKY impression abutment closed tray

copaSKY impression abutment open tray



copaSKY X-tray-tamplates



Scale = 1:1, 1,12:1, 1,26:1

Abutments

copaSKY EXSO abutments

SKY closed tray impression cap NP

copaSKY abutment screw M1.6

copaSKY laboratory screw M1.6

copaSKY titanium abutments

copaSKY bridge and bar abutments

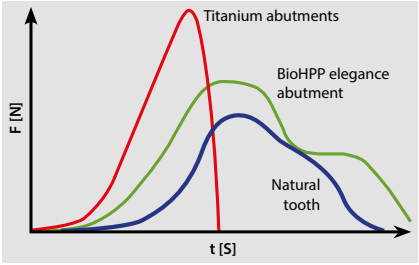
copaSKY TiSi.snap abutments

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.

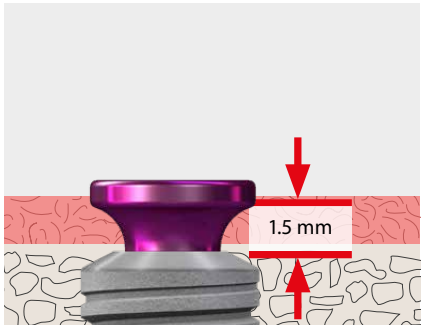
REF	COPAEM00	COPAEM15	COPEPMST	COPAETBM
Description	BioHPP copaSKY elegance abutment 0°	BioHPP copaSKY elegance abutment 15°	BioHPP copaSKY elegance prefab set CSK	copaSKY elegance titanium base 0°
Piece	1	1	1	1
Angulation	0°	15°	0°	0°
Sholder Ø / mm	5.5	5.5	3.6	3.6
Sholder height / mm	4.0	4.0	-	1.5
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	✔	✔	-	✔

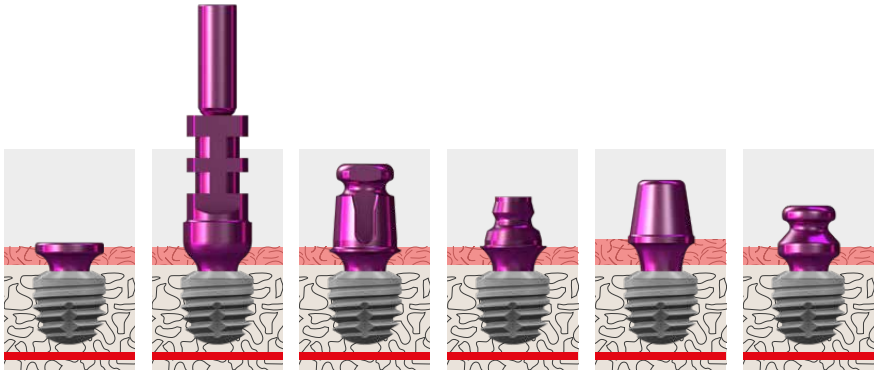
Tissue Line

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.

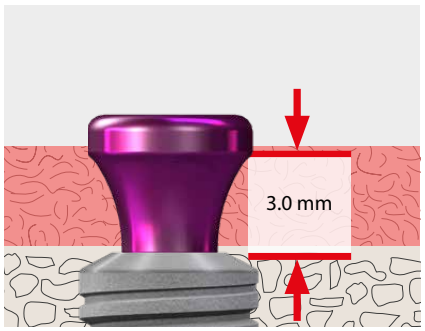
Compared to an abutment with a traditional emergence profile, the tapered and slim copaSKY prosthetics offer the soft tissue a lot of space, even in narrow gaps.

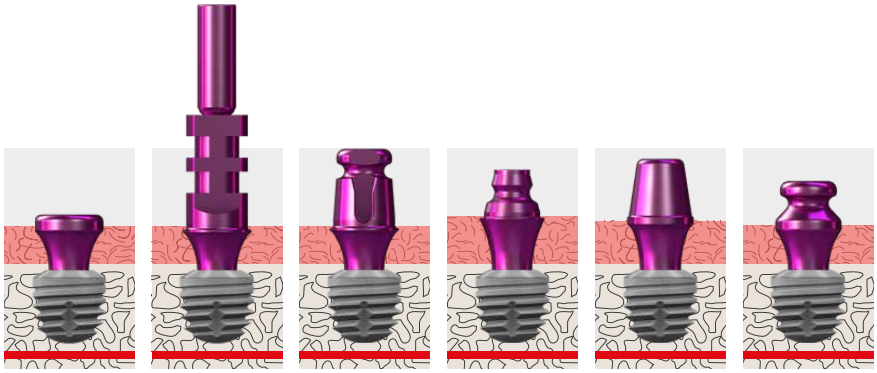
All gingiva genotypes are aesthetically supplied with the two gingiva heights of 1.5 mm and minimum 3 mm.





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

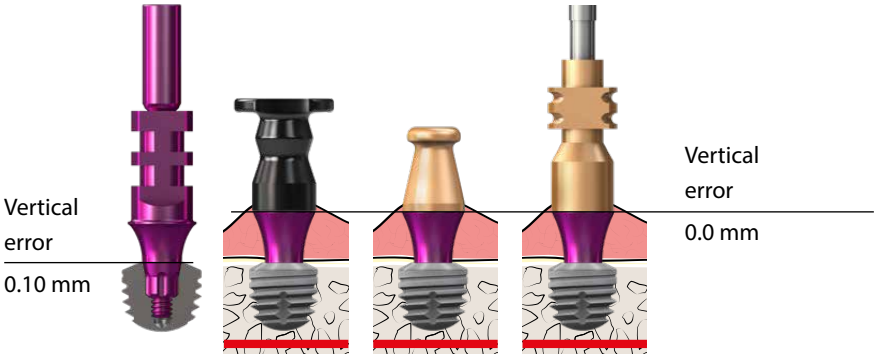




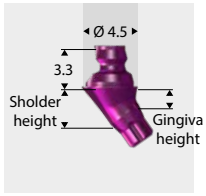
copaSKY prosthetic

copaSKY uni.cone for fast & fixed and bridges

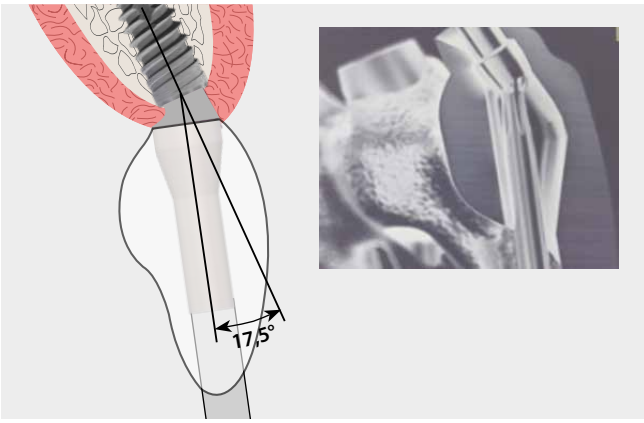
Screwed bridge restorations after the SKY fast & fixed therapy are manufactured with the copaSKY uni.cone abutments. To simplify storage, the SKY uni.cone copings are used.



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.

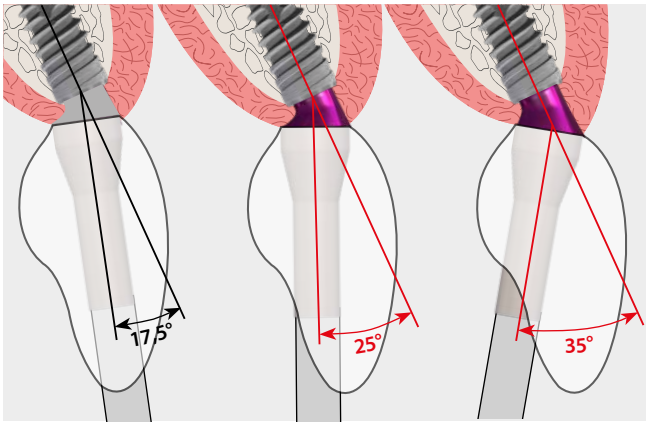


REF	COPAUC01	COPAUC02	COPAUC03	COPUC252	COPUC253	COPUC352	COPUC353
Description	copaSKY uni.cone abutment height 1 mm	copaSKY uni.cone abutment height 2 mm	copaSKY uni.cone abutment height 3 mm	copaSKY uni.cone abutment 25° height 1,5 mm	copaSKY uni.cone abutment 25° height 2,5 mm	copaSKY uni.cone abutment 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.

Abutment 17.5° **25°** **35°**



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 screwdrivers are required.

SKY uni.cone Prosthetic

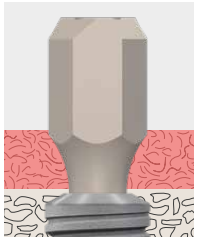
copaSKY uni.cone is supplied with the SKY uni.cone prosthetic copings.

copaSKY prosthetic

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

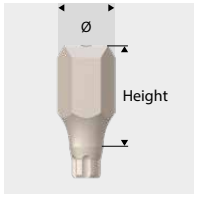


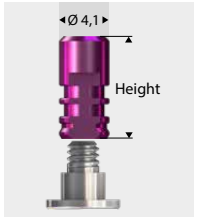
Multi-faceted scan abutment for optimal intraoral and extraoral impression.

3D print analogue for printed models:

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

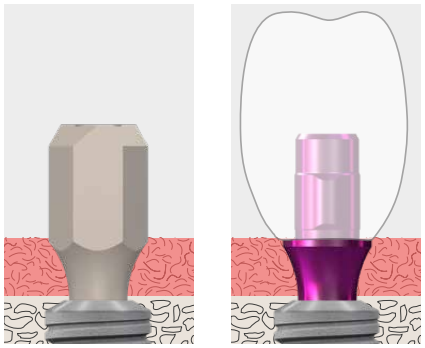
Achieve optimal aesthetics with customised abutments made from the copaSKY titanium or BioHPP prefabs.





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.

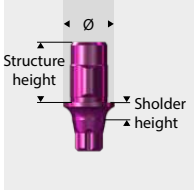
The data sets for copaSKY CAD/CAM Abutments can be downloaded for the following CAD programmes:

- exoCAD
- DentalWings
- 3 shape

www.bredent-medical.com/cad-library

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®.



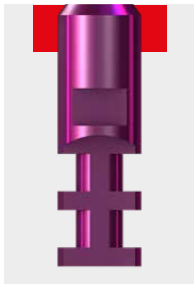
REF	COPAUTB2	COPAUTB3	COPCTBL2	COPCTBL3
Description	copaSKY uni.fit titanium base height 1.5 mm	copaSKY uni.fit titanium base height 3 mm	copaSKY titanium base L for CEREC® height 1.5 mm	copaSKY titanium base L for CEREC® height 3 mm
Piece	1	1	1	1
Angulation	0°	0°	0°	0°
Sholder Ø / mm	4.2	4.2	4.8	4.8
Sholder 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	✔	✔	✔	✔

copaSKY prosthetic

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.



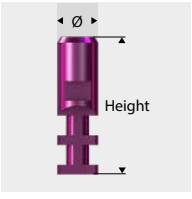
One hundred thousand times proven design of the copaSKY implant analogue for master models:

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

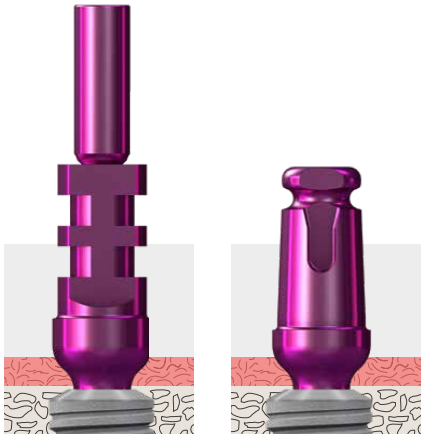
3D print analogue for printed models:

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

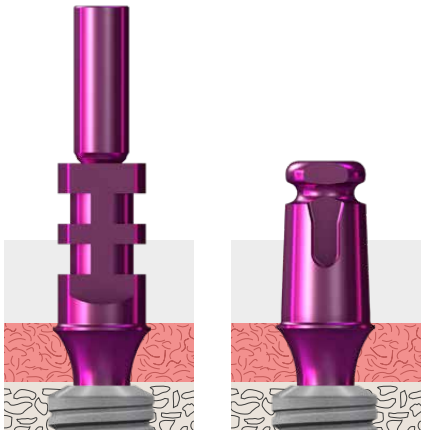
REF	COPAGF22	COPAGF34	COPAGF36
Description	copaSKY gingiva former height 2 mm	copaSKY gingiva former height 4 mm	copaSKY gingiva former height 6 mm
Piece	1	1	1
Angulation	0°	0°	0°
Sholder Ø / mm	4.8	4.8	4.8
Sholder height / mm	2.1	4.0	6.0
Material	Grade 4 KV titanium	Grade 4 KV titanium	Grade 4 KV titanium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



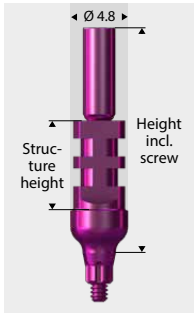
REF	COPAIA50	copdIA50
Description	copaSKY implant analogue	copaSKY implant analogue 3D Print
Piece	1	1
Angulation	0°	0°
Sholder Ø / mm	3.3	4.1
Height	14	8.5
Material	Grade 4 KV titanium	Grade 4 KV titanium
Screw incl.	Laboratory screw	Laboratory screw Fastening screw
SKY prosthetic key	✔	✔
Torque / Ncm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



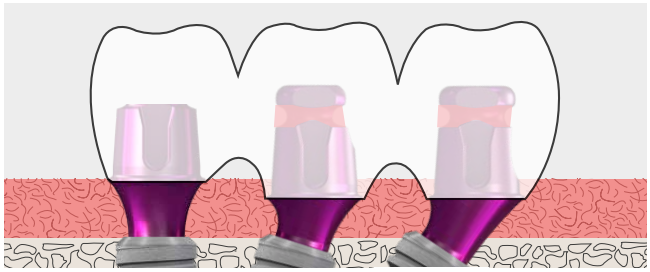
At high gingival heights or deep-rooted implants, the impression is taken with the high impression abutment. The risk of bone collision is low, but must not be neglected. The trapped screw guarantees safe handling.



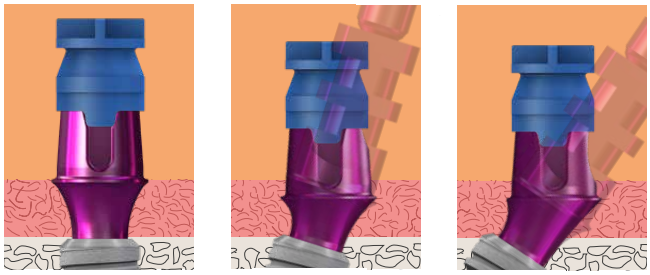
REF	COPAPA22	COPAPA32	COPAGL21	COPAGL31	SKYnPAKA
Description	copaSKY impression abutment open tray height 2 mm	copaSKY impression abutment open tray height 3 mm	copaSKY impression abutment closed tray height 2 mm	copaSKY impression abutment closed tray height 3 mm	SKY closed tray impression cap NP
Piece	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 prosthetic

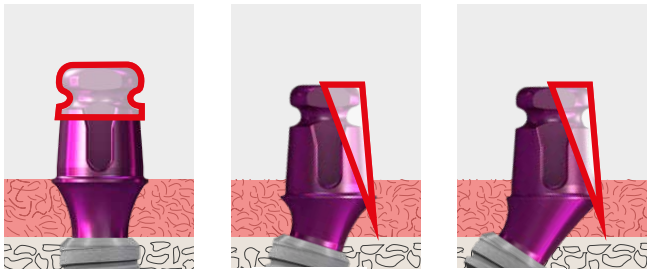
copaSKY EXSO multifunction abutment



- 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



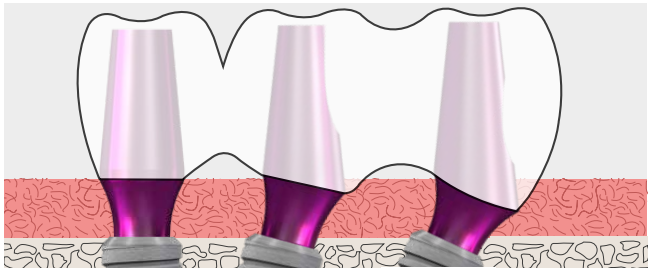
- Easy impression taking of angulated implants at the implant level by angulation compensation up to 40°
- Use of the SKY impression coping for closed trays (REF SKYnPAKA)



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

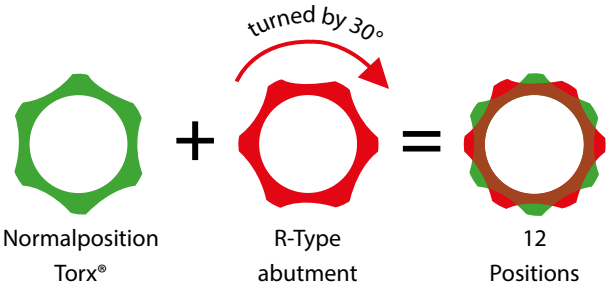
REF	COPEX002	COPEX172	COPEX352	COPEX003	COPEX173	COPEX353
Description	copaSKY EXSO abutment 0° height 1,5 mm	copaSKY EXSO abutment 17,5° height 1 mm	copaSKY EXSO abutment 35° height 1 mm	copaSKY EXSO abutment 0° height 3 mm	copaSKY EXSO abutment 17,5° height 2 mm	copaSKY EXSO abutment 35° height 2 mm
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

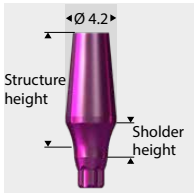


Proven universal mould for the economical restoration of cemented crowns and bridges with all prosthetic materials:

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

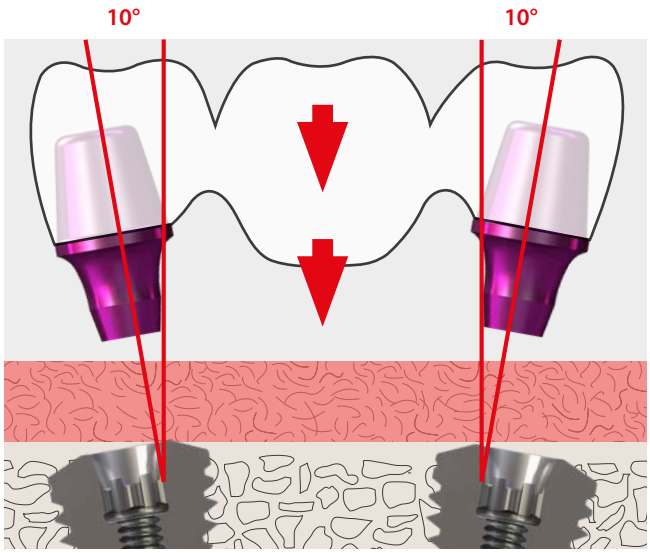


R-version for 12 positions for optimal alignment of the angulated abutments, in order to perform the customisation efficiently.
During the surgical procedure, it is not necessary to pay attention to the alignment of the antirotational mechanism of the implant.

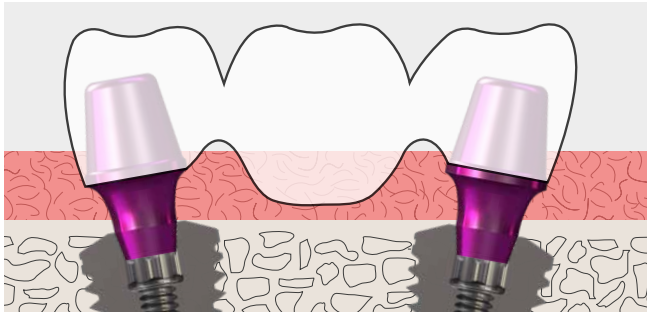


REF	**COPAPO00**	**COPAPO15**	**COPAPO16**	**COPAPO25**	**COPAPO26**
Description	copaSKY titanium abutment 0° height 3 mm	copaSKY titanium abutment 15° height 3 mm	copaSKY titanium abutment 15° R height 3 mm	copaSKY titanium abutment 25° height 3 mm	copaSKY titanium abutment 25° R height 3 mm
Piece	1	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	✔	✔	✔	-	-

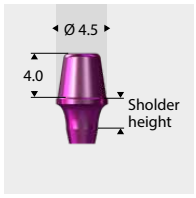
copaSKY bridge and bar abutment



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.

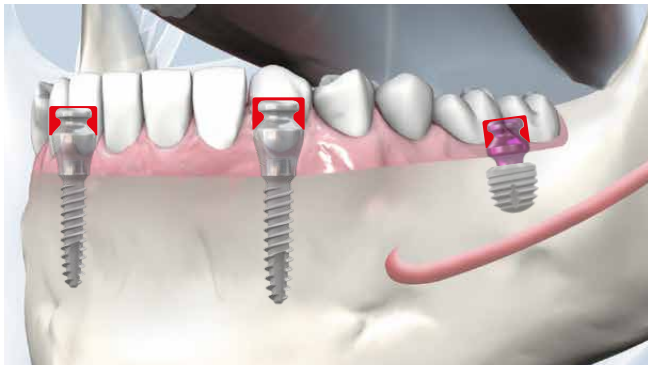


The construction can be easily integrated and occlusally screwed. The long cone directs the lateral and occlusal forces directly into the implant and therefore protects the screw against loosening and breakage.



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	✔	✔	-

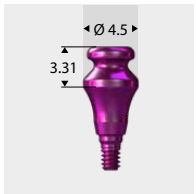
copaSKY TiSi.snap prosthesis fixation



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.

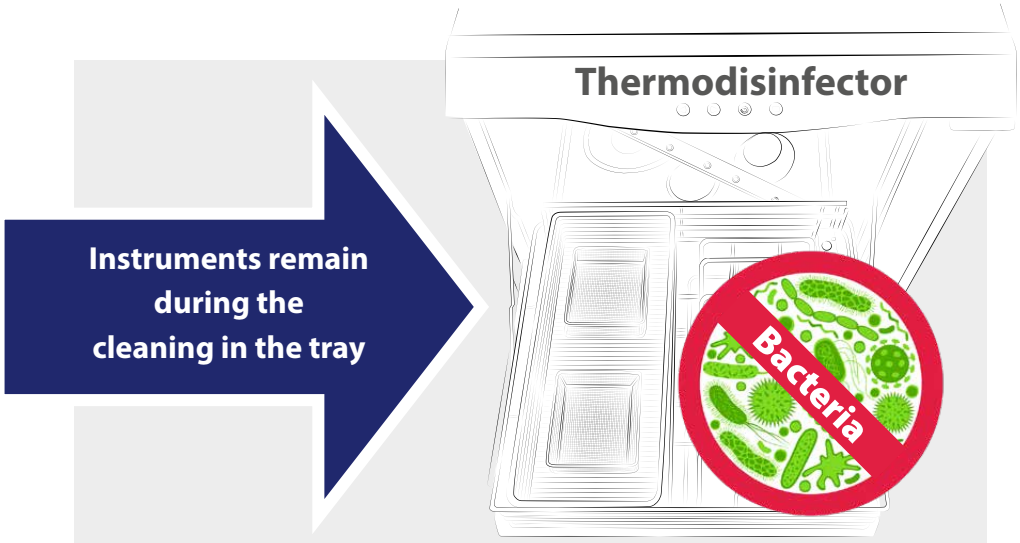
TiSi.snap is also suitable for use with the locator retention elements.



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	✔	✔				-

Instruments

OP-Tray – one for all

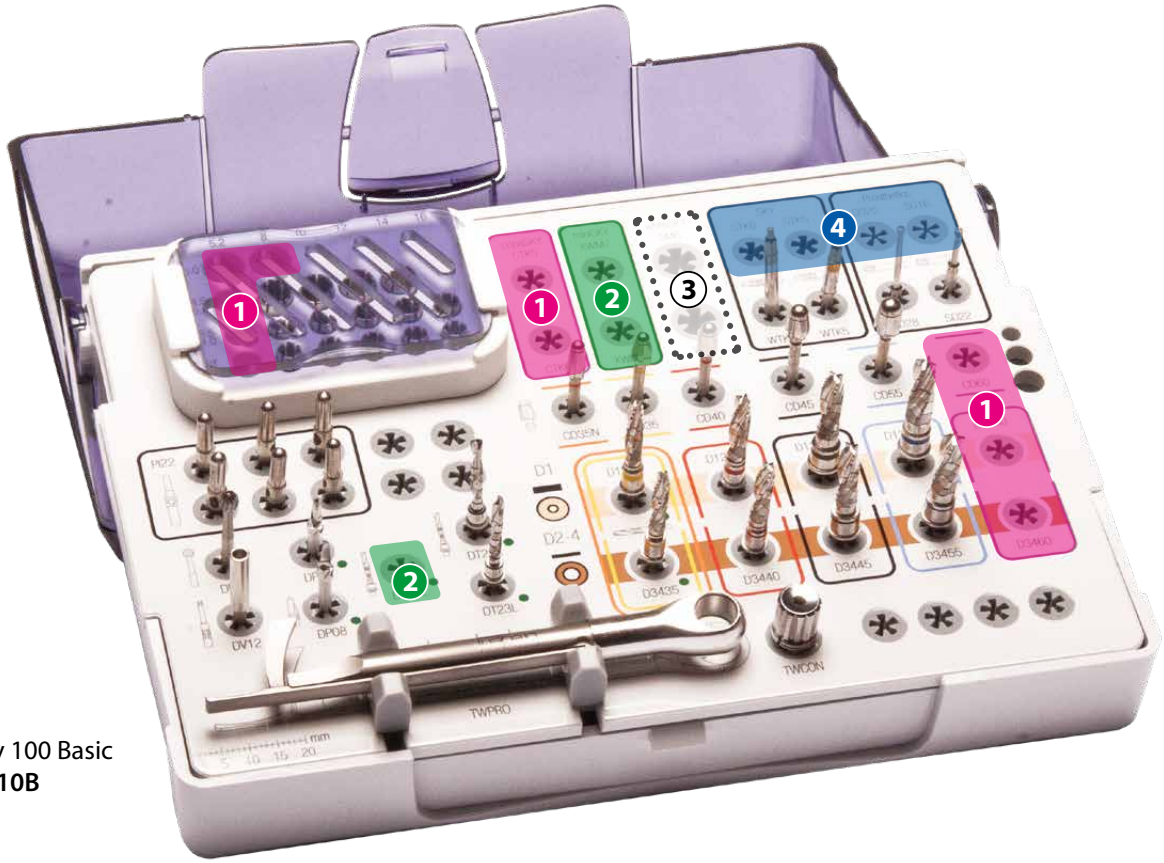


Preparation according to current standards and norms of the Robert Koch Institute (RKI)

Reprocessing in the thermodisinfector

Validated reprocessing of the OP-Tray 100 in the thermodisinfector. The insert serves as a carrier for drills and instruments.

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

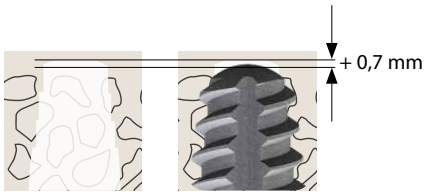
③ **whiteSKY** Upgrade Kit
Instruments
REF wSKYUPGK

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

Surgical protocol *Freehand*

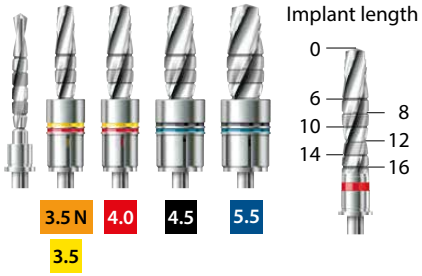
SKY drill

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.



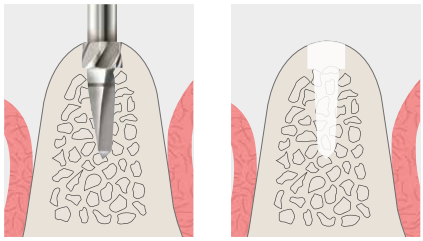
Drilling depth

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



Detachable drills stops

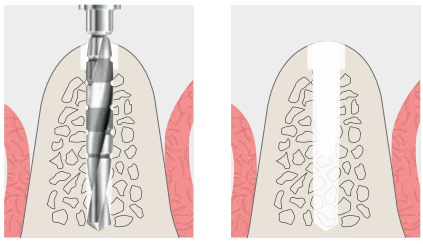
The detachable drill stops are arranged so that they can be easily taken up with the drill and fastened with one hand thanks to the cavities in the OP-Tray insert.



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.



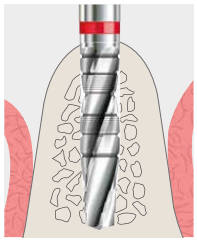
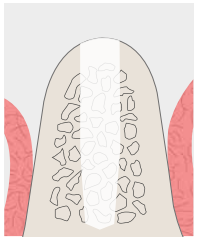
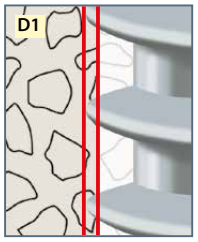
SKY twist drill

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.

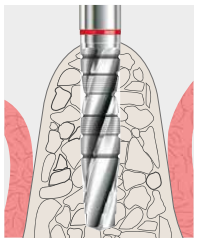
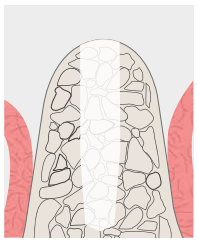
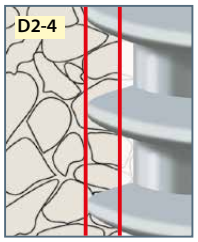
REF	**SKY-DP06**	**SKY-DP08**	**SKYDT13L**	**SKYDT23K**	**SKYDT23L**
Description	SKY pilot drill short shaft	SKY pilot drill long shaft	SKY Twistdrill	SKY Twistdrill short	SKY Twistdrill long
Piece	1	1	1	1	1
Connection	ISO 1797	ISO 1797	ISO 1797	ISO 1797	ISO 1797
Total length/mm	26	34	41	41	36
Working 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.

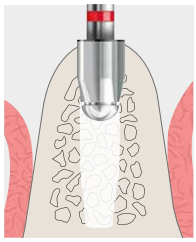
Consistently high primary stability

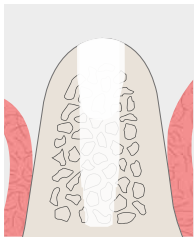
REF	SKYD1235	SKYD1240	SKYD1245	SKYD1255	COPD1260
Description	SKY Drill for hard bone 3.5 N 3.5	SKY Drill for hard bone 4.0	SKY Drill for hard bone 4.5	SKY Drill for hard bone 5.5	copaSKY Drill for hard bone 6.0
Piece	1	1	1	1	1
Connection	ISO 1797	ISO 1797	ISO 1797	ISO 1797	ISO 1797
Total length/mm	37	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 3.5 N 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

Surgical protocol *Freehand*

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:

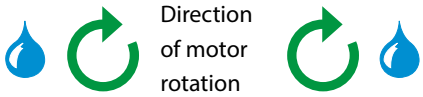
For copaSKY implants with a Ø 3.5 mm a narrowSKY crestal drill 3.5 N (orange, SKYCD35n) is used.

REF	**SKYCD35n**	**SKYXCD40**	**SKYXCD45**	**SKYXCD55**	**SKYXCD60**
Description	narrowSKY Crestal drill 3.5 N	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

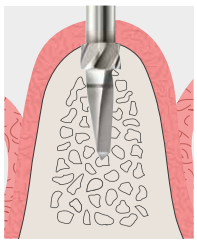
Drill stops			L5.2	L6	L8	L10	L12	L14	L16
Twistdrill		**REF**	**COPAXS05**	**SKYXST06**	**SKYXST08**	**SKYXST10**	**SKYXST12**	**SKYXST14**	**SKYXST16**
Drill	3.5 4.0	**REF**	**COPS0540**	–	**SKYS0840**	**SKYS1040**	**SKYS1240**	**SKYS1440**	**SKYS1640**
Drill	4.5 5.0 5.5	**REF**	**COPS0550**	–	**SKYS0845**	**SKYS1045**	**SKYS1245**	**SKYS1445**	–
Drill	6.0	**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:

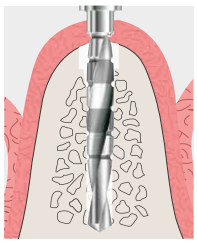


800-1.000 rpm

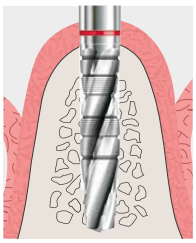


The pilot drill and twist drill are used as described in the SKY surgical protocol.

800-1.000 rpm

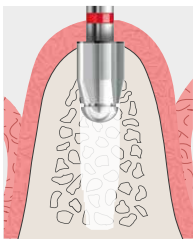


50 rpm



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.

300 rpm

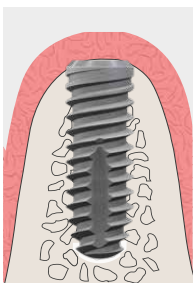


The crestal drill is used in accordance with the surgical protocol.

SKY Surgical protocol – In cases of excessive torque

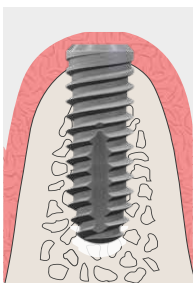
Torque for implant insertion > 45 Ncm.

Direction of rotation

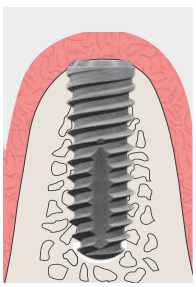


Unscrew the implant by 1 to 2 turns.
wait approx. 10 seconds

360° - 720°



Screw implant down to its final position again.



Literature:

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

Surgical protocol *Freehand*

copaSKY Surgical protocol

Implant length

8, 10, 12, 14 mm

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

Crestal drill

REF SKYCD35n

REF SKYXCD40

300 rpm. **3.5 N** **4.0**

Hard bone D1

REF SKYD1235

REF SKYD1240

300 rpm. **3.5 N** **4.0**

Pilot dril

Twistdrill

REF SKY-DP06

REF SKY-DP08

REF SKYDT23K

REF SKYDT23L

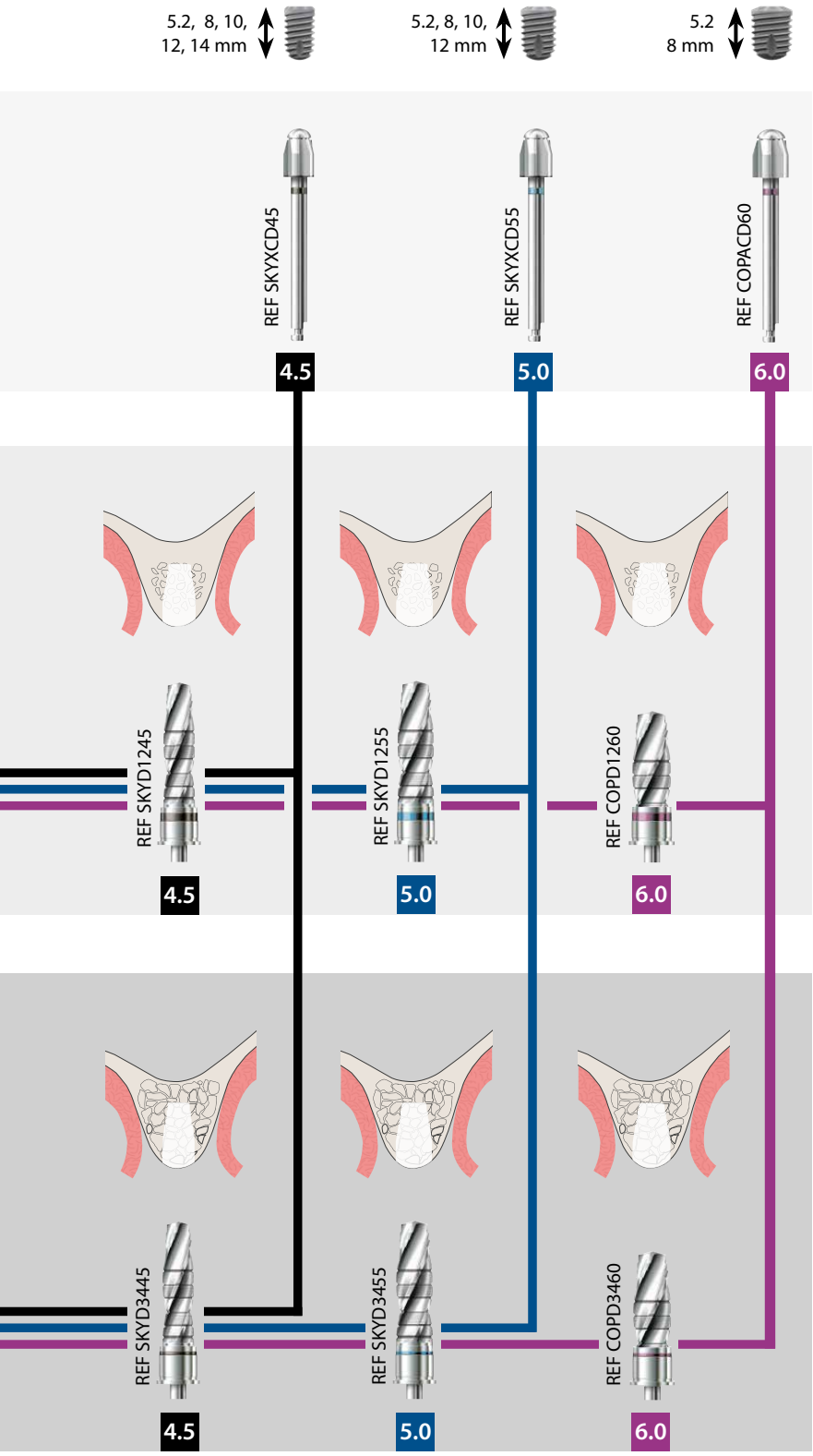
800 - 1.000 rpm.

Medium hard / soft bone D2-D4

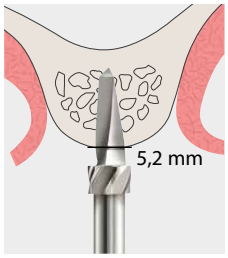
REF SKYD3435

REF SKYD3440

300 rpm. **3.5 N** **4.0**

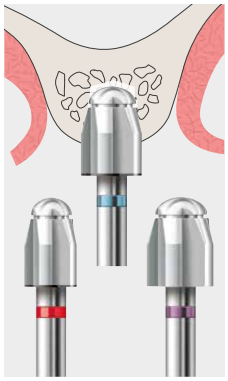

5.2, 8, 10, 12, 14 mm
5.2, 8, 10, 12 mm
5.2 8 mm
REF SKYXCD45
REF SKYXCD55
REF COPACD60
4.5
5.0
6.0
REF SKYD1245
REF SKYD1255
REF COPD1260
4.5
5.0
6.0
REF SKYD3445
REF SKYD3455
REF COPD3460
4.5
5.0
6.0

Special features copaSKY ultrashort

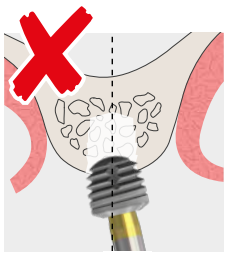


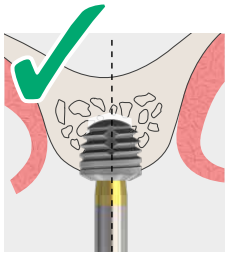
For the ultrashort copaSKY implants (REF copa4005, copa5005, copa6005), the pilot drill is only used up to the laser mark.

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.



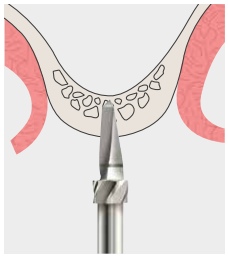
The crest drill is inserted to the stop.



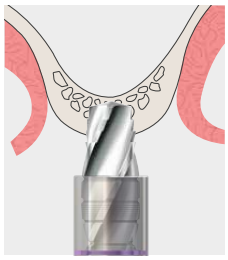


Caution!
When screwing in, the implant axis slightly deviates from the drilling axis of the cavity, as the implant is very short.
When inserting the implant with an angle piece, the axis can be better controlled.

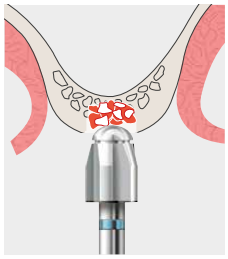
Internal sinus floor elevation with copaSKY ultrashort



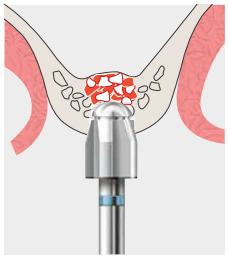
Carefully treatment of the cavity to the bony margin of the sinus floor.



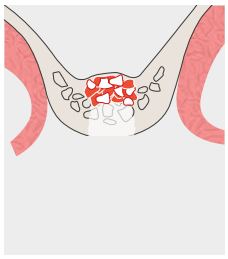
The further treatment takes place according to the copaSKY drill protocol up to the required diameter. To protect, place the drill stop.



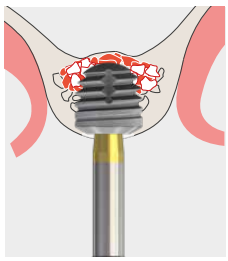
Before using the crestal drill, insert bone reconstruction material into the cavity. Do not use any sharp-edged bone reconstruction material. With the rounded tip of the crestal drill on the bone reconstruction material, the bony margin of the sinus floor is gently pressed.



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



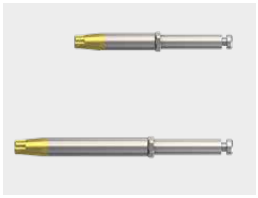
Before inserting the implant, make sure that the bone reconstruction material has been introduced evenly, so as to avoid an axial misalignment of the implant.



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

Accessories and instruments

Surgical tools



copaSKY TK mounter for contra-angle short
REF copaCTK5

copaSKY TK mounter for contra-angle long
REF copaCTK6

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

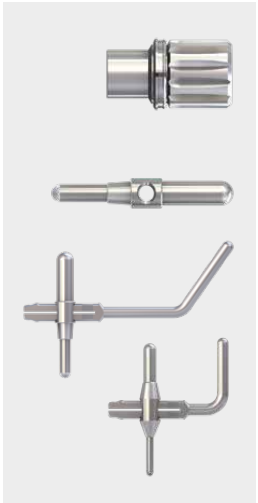
SKY TK mounter for contra-angle long
REF SKY-WTK6

miniSKY insertion instrument for contra-angle short
REF mSKYXWM6

miniSKY insertion instrument for contra-angle
REF mSKYXWM7

whiteSKY mounter for ratchet
REF SKYC-SM6

whiteSKY mounter for ratchet
REF SKYC-WM6

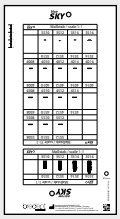


SKY Connector Pro for contra-angle
REF SKYTWCON

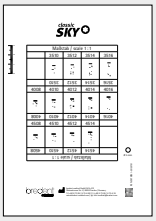
Parallel indicator with conical and cylindrical side, thicker central area with hole for protection against accidental dropping
REF SKY-PI22

SKY fast & fixed angulation aid set 35°
REF SKYFFS35

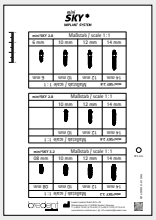
miniSKY 0° parallelization tool
REF mSKYpara



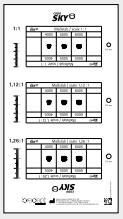
blueSKY / narrowSKY
X-ray-templates
Scale 1:1 **REF bSKYMS01**
Scale 1.12:1 **REF bSKYMS12**
Scale 1.26:1 **REF bSKYMS26**



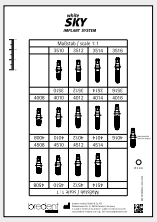
SKY classic X-ray-templates
Scale 1:1 **REF kSKYMS01**
Scale 1.12:1 **REF kSKYMS12**
Scale 1.26:1 **REF kSKYMS26**



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



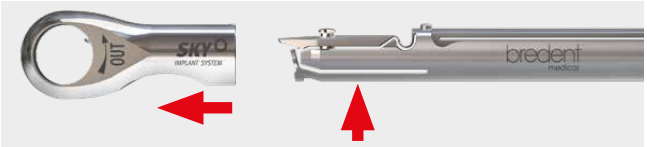
whiteSKY X-ray-templates
Scale 1:1 **REF SKYMS01C**
Scale 1.12:1 **REF SKYMS12C**
Scale 1.26:1 **REF SKYMS26C**

Accessories and instruments

Torgue 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

18 YEARS
1.500.000
SKY
IMPLANTS
2003 2021

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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SINCE 1974

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