

Presentation of the system



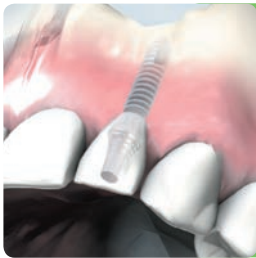
Prosthesis fixation
and restoration of narrow single tooth gaps

Indications and patient selection



Prosthesis fixation

With miniSKY, bredent medical offers an implant that is reduced in diameter and perfectly suited to prosthesis fixation due to its technical properties.



Restoration of narrow single tooth gaps

mini²SKY is perfectly suited to restoration of narrow single tooth gaps. In the case of low bone availability and despite residual dentition, patients can be treated with a highly-aesthetic solution for the edentulous space.

Here are your indications for miniSKY

Dentition	Often long edentulous or inconvenient residual dentition not worth saving.
Available bone	Often severely atrophied jaw. Treatment with standard implants cannot be carried out or can only be carried out by means of augmentation.
Prosthesis	Unsteady, mucosa-supported full prosthesis. Pressure points and areas of inflammation present.
General health	Prevents any complex surgical procedures under anaesthesia.
Financial resources	Limited. Treatment with standard implants and costly bone enhancements are not possible for reasons of cost.
Ease of cleaning	Only possible to a limited extent, – therefore simple handling required.
Nutrition	Chewing of firm food is difficult. Significant anxiety that the prosthesis will fall out.
Quality of life	Low self-confidence. Often also resulting in psychological problems.

The basic principle – the miniSKY implant system

- Implant and surface design
- At a glance - the SKY implant family
- Clinical indications
- Surgical protocol

Prosthetic options for prosthesis fixation with

- SKY O-ring housing or SKY precious metal matrix for mini¹SKY
- mini²SKY retention.loc
- mini²SKY TiSi.snap with retention.sil – the economical alternative
- CAD/CAM manufactured bars – directly screwed

Restoration of narrow single tooth gaps

- Standard abutments
- Individual abutments – analogue and digital

Impression and model manufacturing

Instrument kit and component overview

The basic principle – the miniSKY implant system

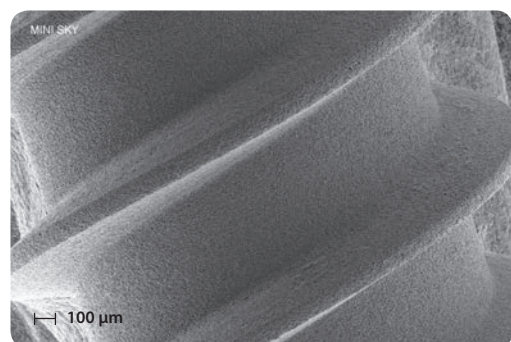
Implant and surface design

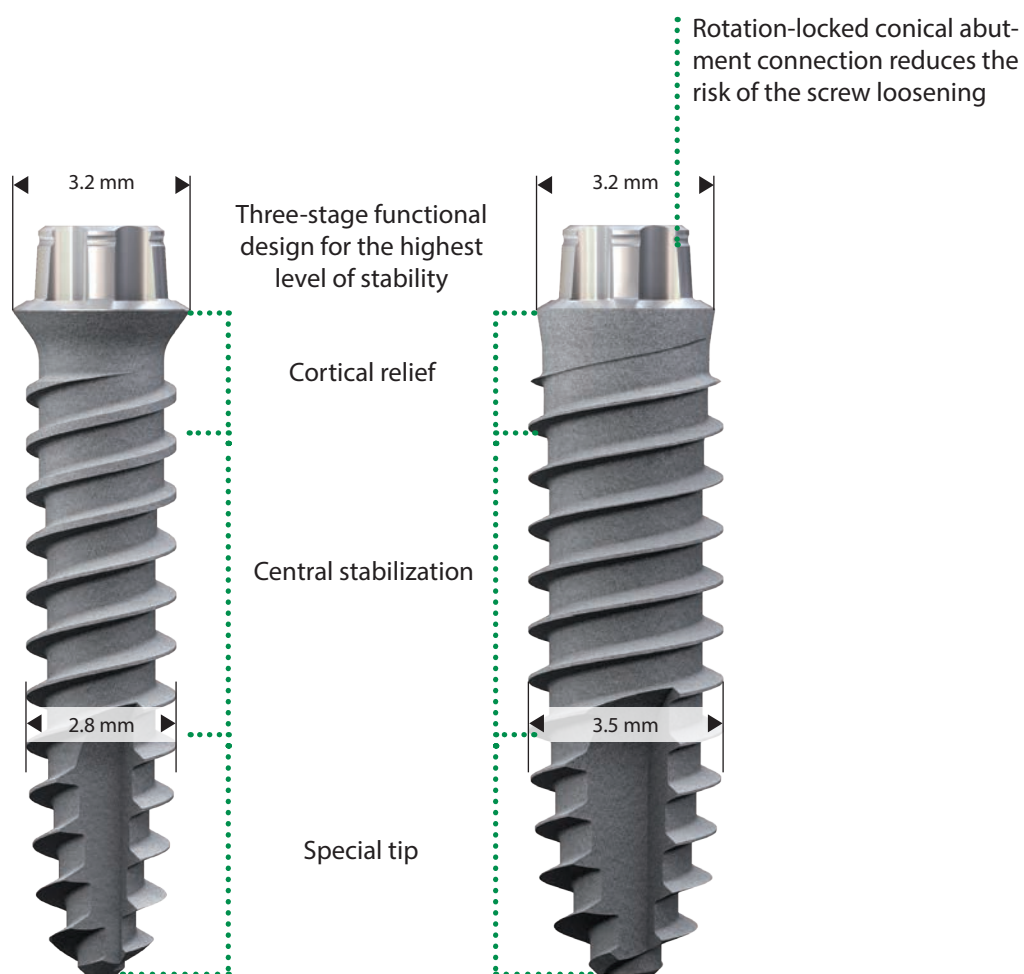


osseo connect surface (ocs)®

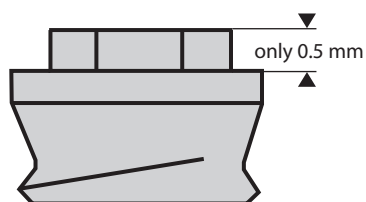
The mini¹SKY and mini²SKY implants have the tried-and-tested *osseo-connect surface (ocs)®* of the blueSKY implants, which ensures optimal osseointegration.

The uniform coarse surface provides ideal prerequisites for the accumulation of the osteoblasts. This is supported by the excellent hydrophilic properties of the implants.

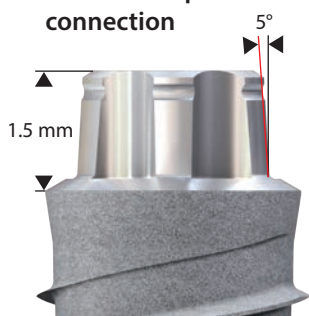




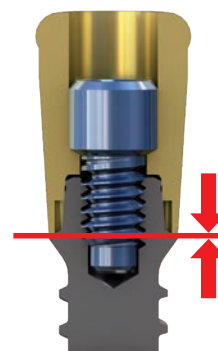
Competing implant abutment connection



mini²SKY implant abutment connection



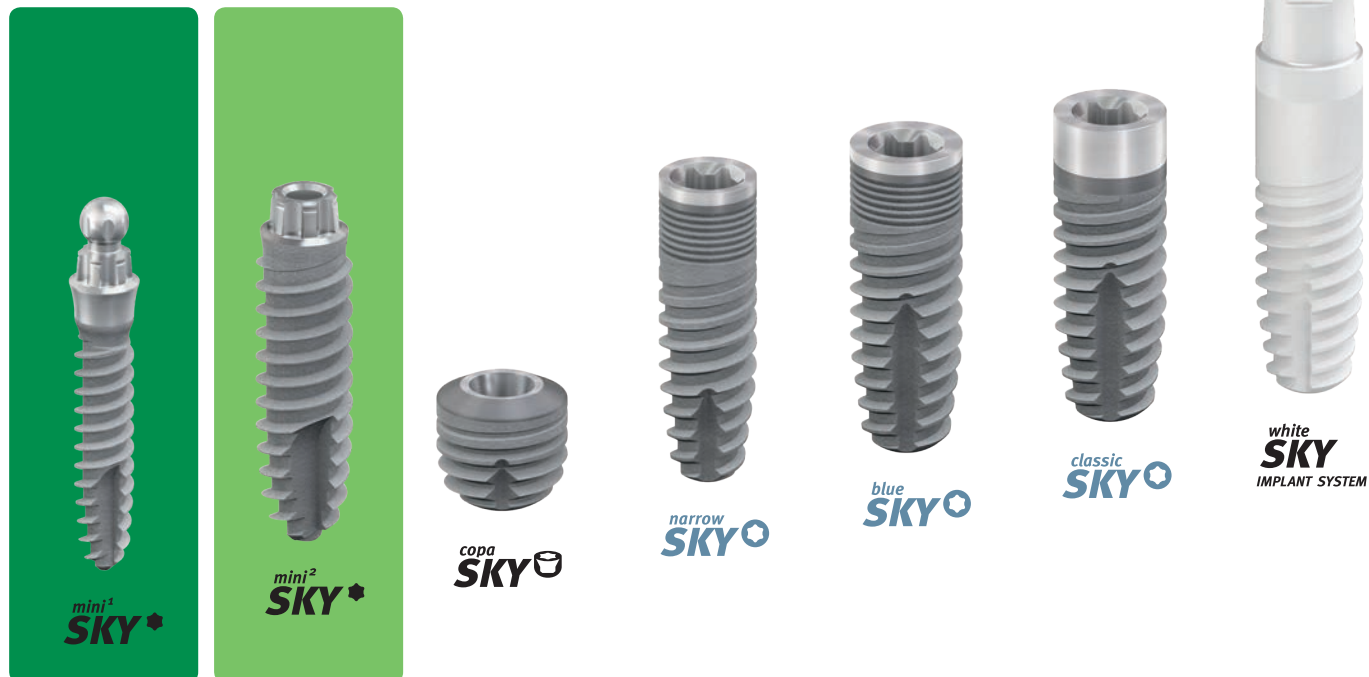
- High implant abutment connection
- Minimal movement due to 5° cone
- Exceptional stability



Definitive positioning of the abutment

The basic principle – the miniSKY implant system

At a glance - the SKY implant family



miniSKY - the narrowest member of the SKY family

Are you interested in additional implant treatments?

SKY System Presentation brochure REF 000250GB

Tissue Related Implant Management brochure REF 009913GB

Prerequisites for successful treatment with miniSKY

- ✓ No residual dentition in the opposing jaw
- ✓ Adequate primary stability (30 Ncm)
- ✓ Avoidance of primary contacts
- ✓ No overdimensioning of the prosthesis
- ✓ Maintenance of the healing phase



Restored immediately using retention.sil

Immaterial whether stud, retention.loc or TiSi.snap.

With retention.sil, bredent medical offers a unique prosthesis silicone which can be used to softly line the prosthesis for the duration of the healing phase.

This lining cushions the chewing forces and absorbs the load peaks. As a result, successful healing is ensured.

mini¹SKY

- Temporary implant
- Fixation of templates



Length 6 mm

REF m1SKYL06

Length 10 mm

REF m1SKYL10

Length 12 mm

REF m1SKYL12

Length 14 mm

REF m1SKYL14

miniSKY implant

mini²SKY 2.8



Length 10 mm

REF m2SKYL10

Length 12 mm

REF m2SKYL12

Length 14 mm

REF m2SKYL14

mini²SKY 3.2



Length 8 mm

REF m2SK3208

Length 10 mm

REF m2SK3210

Length 12 mm

REF m2SK3212

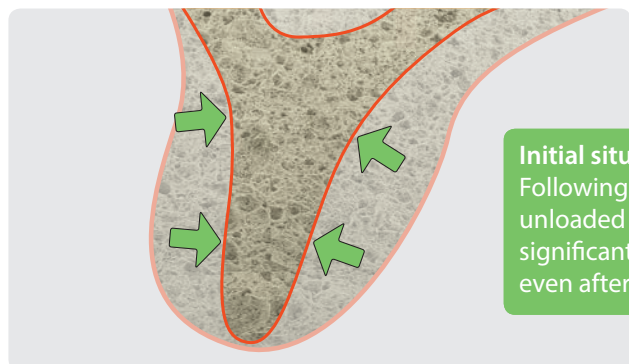
Length 14 mm

REF m2SK3214

The basic principle – the miniSKY implant system

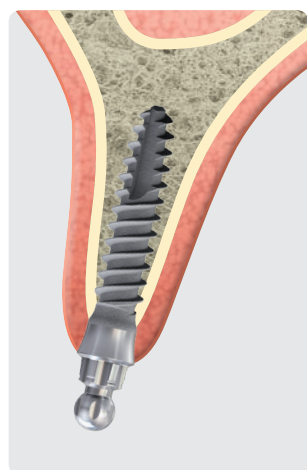
Clinical indications

Use of miniSKY with Ø 2.8 mm



Initial situation

Following tooth extraction and unloaded (edentulous) jaws, significant bone loss occurs even after a short period of time.

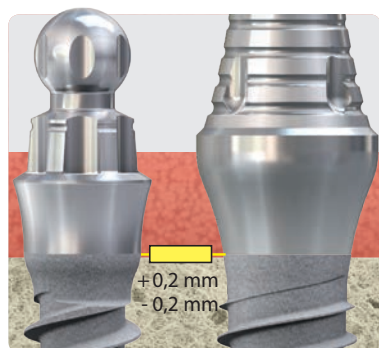


To use miniSKY, the circular bone around the implant should have a minimum wall thickness of 1.5 mm.

mini¹SKY 2.8

mini²SKY 2.8

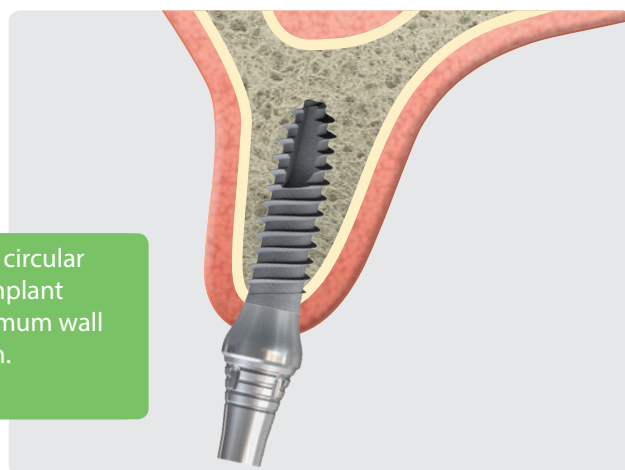
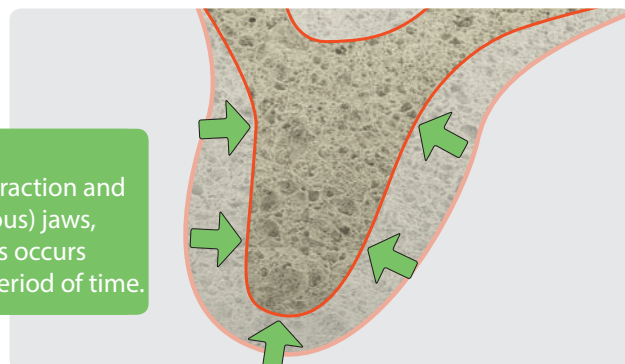
miniSKY, with its two implant diameters, offers increased stability in comparison to "real" mini implants with a diameter of only 1.8 mm, for example.



Implant position in retention in the bone.

The miniSKY implant is inserted into the bone in the isocrestal position. Augmentations can frequently be avoided due to the narrow diameter. Visualisation of the osseous situation by

Use of miniSKY with Ø 3.2 mm

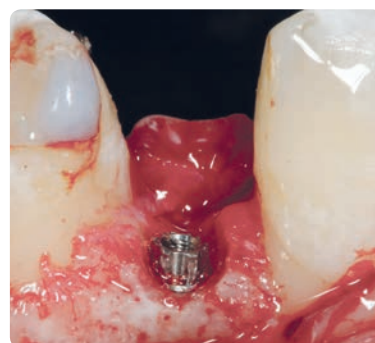


mini²SKY 3.2

Implant and surface design facilitate adequate levels of primary stability – the prerequisite for a secure prosthetic hold.



Dr. Michael Weiss, Ulm

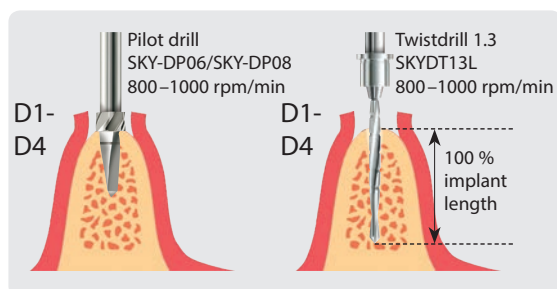


Dr. Giovanni Ghirlanda, Rome

means of miniflaps is recommended for implant insertion. Often, only one surgical procedure is required, which can be carried out as a minimally-invasive procedure.

Surgical protocol

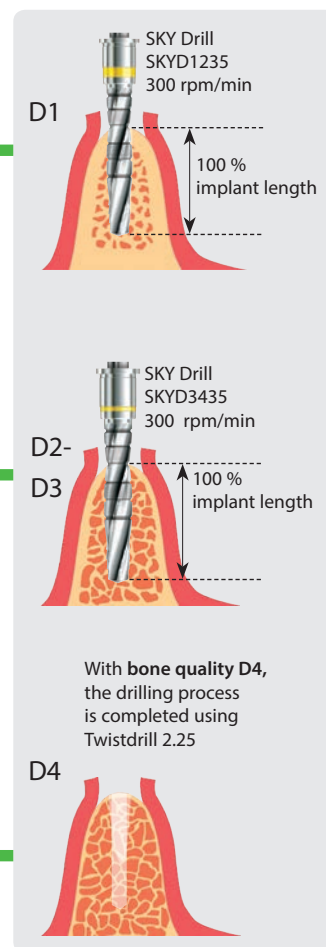
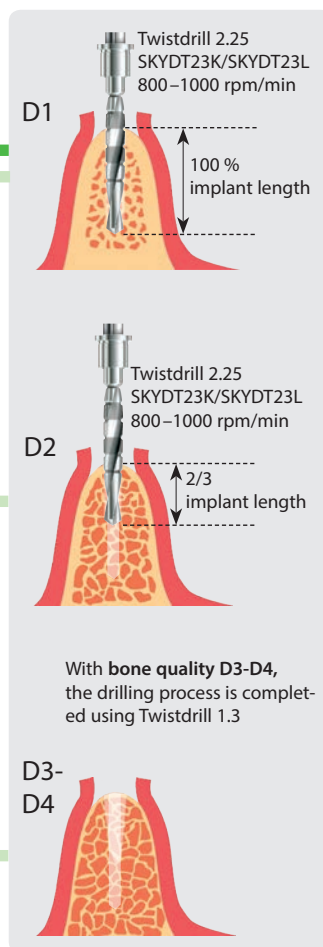
mini
SKY★
IMPLANT SYSTEM



mini¹
SKY★ 2.8

mini²
SKY★ 2.8

mini²
SKY★ 3.2



miniSKY
Surgical Tray
REF mSKYOT41



SKY Surgical Tray 100
REF SKYOT100

The miniSKY Surgical Tray OT41, contains all of the drills and instruments needed for inserting the miniSKY implants.

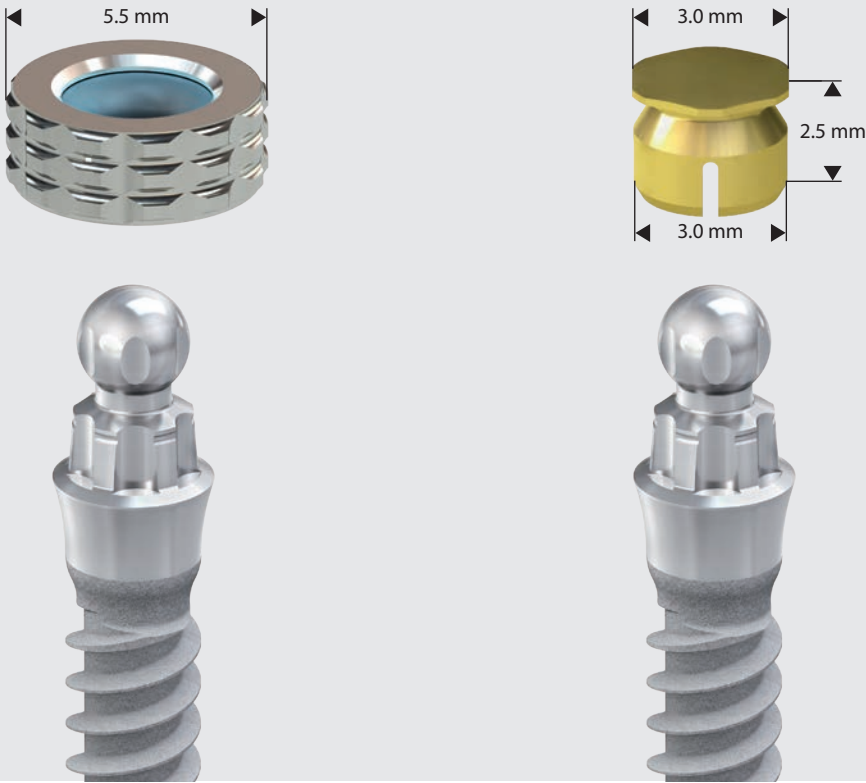
If you already have a SKY Surgical Tray 100, you will also be able to use this with no restriction.

Both OP trays are easy to clean and sterilise. Owing to its small dimensions, it also fits on any operating table.

An additional instrument kit can be found on page 18.

Prosthetic options for prosthesis fixation with...

...SKY O-ring housing or SKY precious metal matrix for mini¹SKY

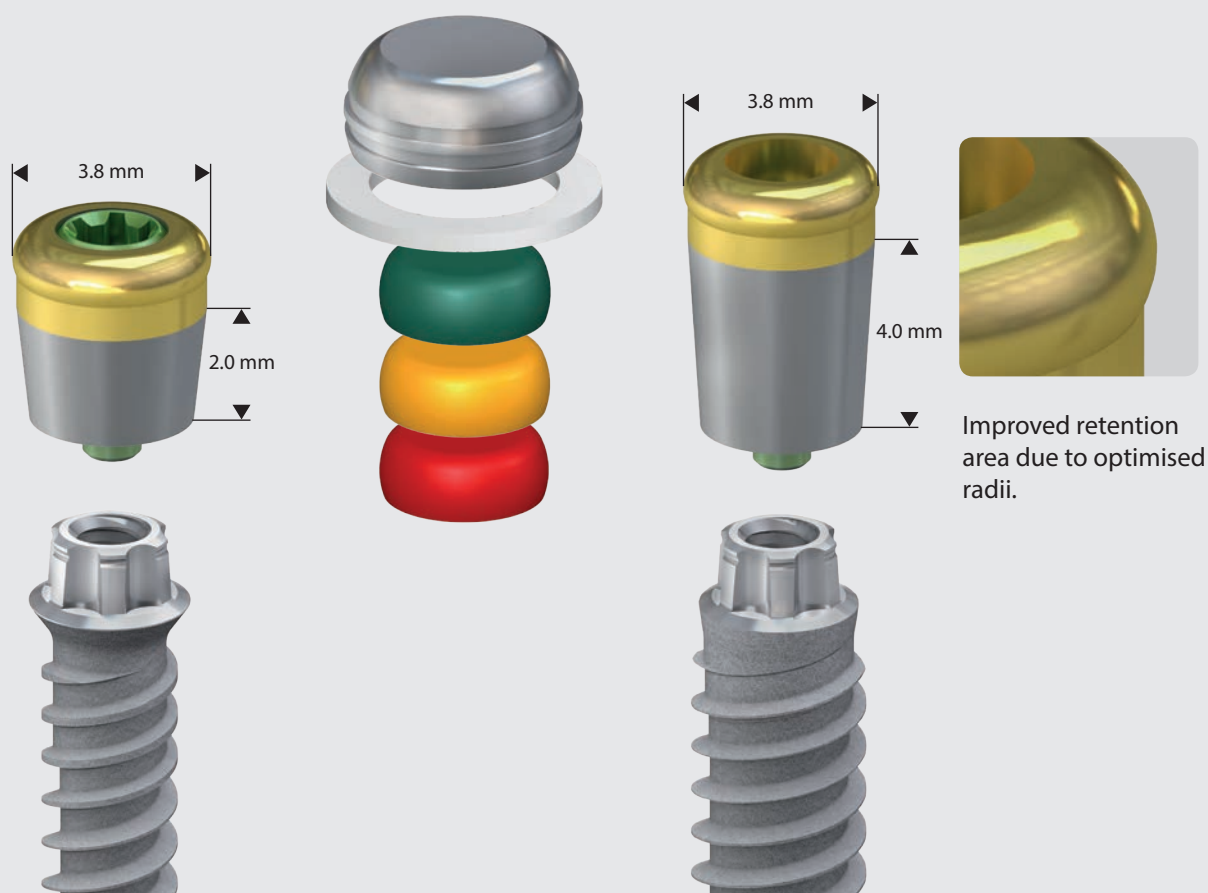


- The classic in prosthetic fixation
- Tried-and-tested in practice
- Alternatively, also with precious metal matrix with adjustable retention



REF	SKY-OR50	SKYGM225	SKY-OR55
Description	SKY metal housing with O ring	SKY Precious metal matrix	SKY O-rings
Pieces	1	1	6
Material	Stainless steel	Precious metal (Elitor)	Fluororubber
Platform	mini ¹ SKY	mini ¹ SKY	mini ¹ SKY

...mini²SKY retention.loc



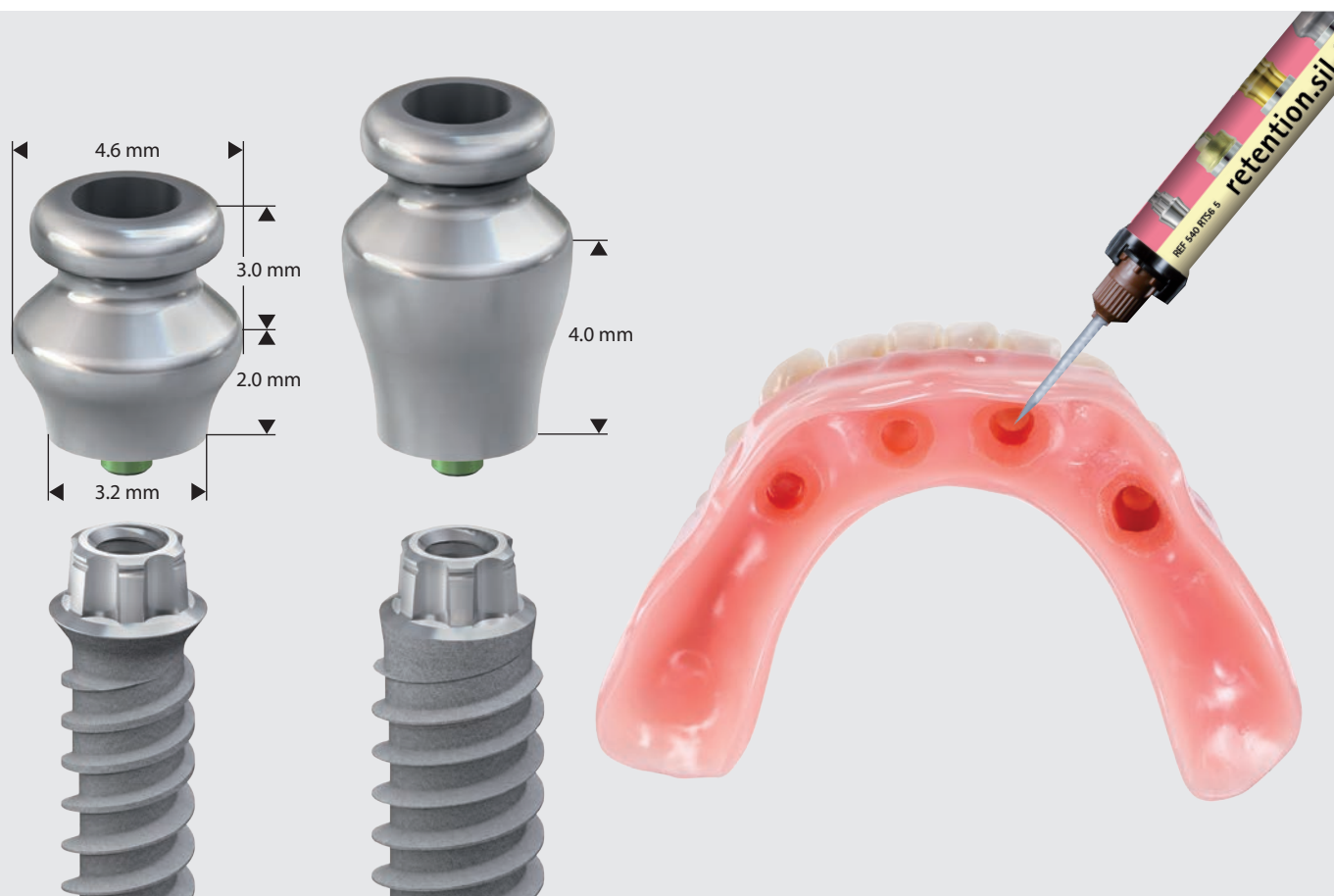
- The solution for fixation of dentures from bredent medical
- Also available as original Locator® variants by Zest (see order form)
- Available in 2 and 4 mm heights
- Rotation protection prevents loosening of the screw
- Fixation with mini²SKY retention screw ensures optimal application of force via the precision torx in the implant
- Original Locator® retention protection 20° can be used

REF	m2SKYRL2	m2SKYRL4	m2SKYS22	LOCLAB20
Description	mini ² SKY retention.loc Abutment 2 mm	mini ² SKY retention.loc Abutment 4 mm	mini ² SKY screw M 1.6	Locator® Processing set 10°-20°
Pieces	1	1	6	2 sets red - 4.4 N - 454 g orange - 9.1 N - 907 g green - 17.8 N - 1815 g
Material	Ti*with titanium nitride coating	Ti*with titanium nitride coating	Ti*	Titanium/Teflon/Nylo
Platform	mini ² SKY	mini ² SKY	mini ² SKY	mini ² SKY
Prosthetic key	SKY-SD 25	SKY-SD 25	SKY-SD 25	-
Torque / Ncm	20	20	-	-
Screw	incl.	incl.	-	-









Ti*=
Grade 5 titanium

Prosthetic options for prosthesis fixation with...

...mini²SKY TiSi.snap with retention.sil – the economical alternative

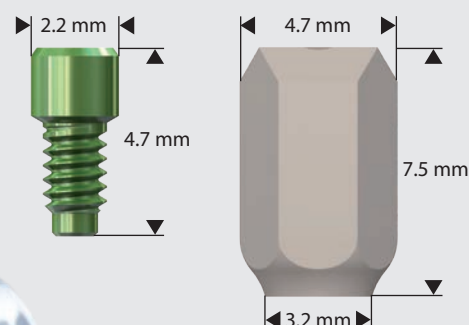


- The hold of the prosthesis is guaranteed with retention.sil prosthesis silicone
- Friction can be selected individually in 3 hardness grades
- Resilient restoration with a high level of wearing comfort
- Low costs for patients
- Existing prosthesis can be reused
- The TiSi.snap abutments are compatible with the Locator® matrices

REF								
	m2SKTI02	m2SKTI04	SKY-DR41	580RTS25	580RTS50	580RTS65	52001004	580RTSET
Description	mini ² SKY TiSi. snap 2 mm	mini ² SKY TiSi. snap 4 mm	SKY Bone Bur	retention.sil 200 Shore hardness 25 SH Pull-off forces 200 g/2 Newton	retention.sil 400 Shore hardness 50 SH Pull-off forces 400 g/4 Newton	retention.sil 600 Shore hardness 65 SH Pull-off forces 600 g/6 Newton	Multisil-Primer	retention.sil set contains retention.sil in 3 hardnesses in the double mixing cartridge + Multisil-Primer
Pieces	1	1	1	1	1	1	1	
Height / mm	2.0	4.0	-	-	-	-	-	
Head-Ø / mm	-	-	4.0	-	-	-	-	
Material	Ti*	Ti*	Stainless steel	Prosthetic silicone	Prosthetic silicone	Prosthetic silicone	-	
Platform	mini ² SKY	mini ² SKY	-	-	-	-	-	
Screw	incl.	incl.	-	-	-	-	-	
Prosthetic key	SKY-SD 25	SKY-SD 25	-	-	-	-	-	
Torque / Ncm	20	20	-	-	-	-	-	

Ti*= Grade 4 titanium

...CAD/CAM manufactured bars – directly screwed



- mini²SKY with high-quality bar solution
- Direct screwing with implants and original mini²SKY screws

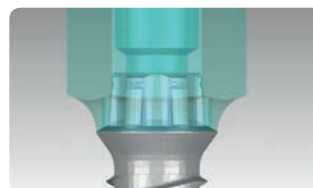
CAD library

The data necessary for CAD/CAM manufactured planning and manufacture can be found on www.bredent-medical.com. For this, you can choose the mini²SKY scan abutment and the connector geometry of the mini²SKY implant. As a high level of precision is presupposed in the manufacturing due to the screw position in the bar, we recommend cooperation with various reference milling centres. Please see our separate offers for this.



REF	m2SKSCIE	m2SKYS22
Description	mini²SKY Scan-Abutment intraoral / extraoral	mini²SKY Screw M 1.6
Pieces	1	6
Height / mm	7.5	4.7
Material	Peek-Classix™	Ti*
Platform	mini²SKY	mini²SKY
Screw	incl.	-
Prosthetic key	SKY-SD 25	SKY-SD 25
Torque / Ncm	10	-

Ti*=
Grade 5 titanium



Restoration of narrow single tooth gaps

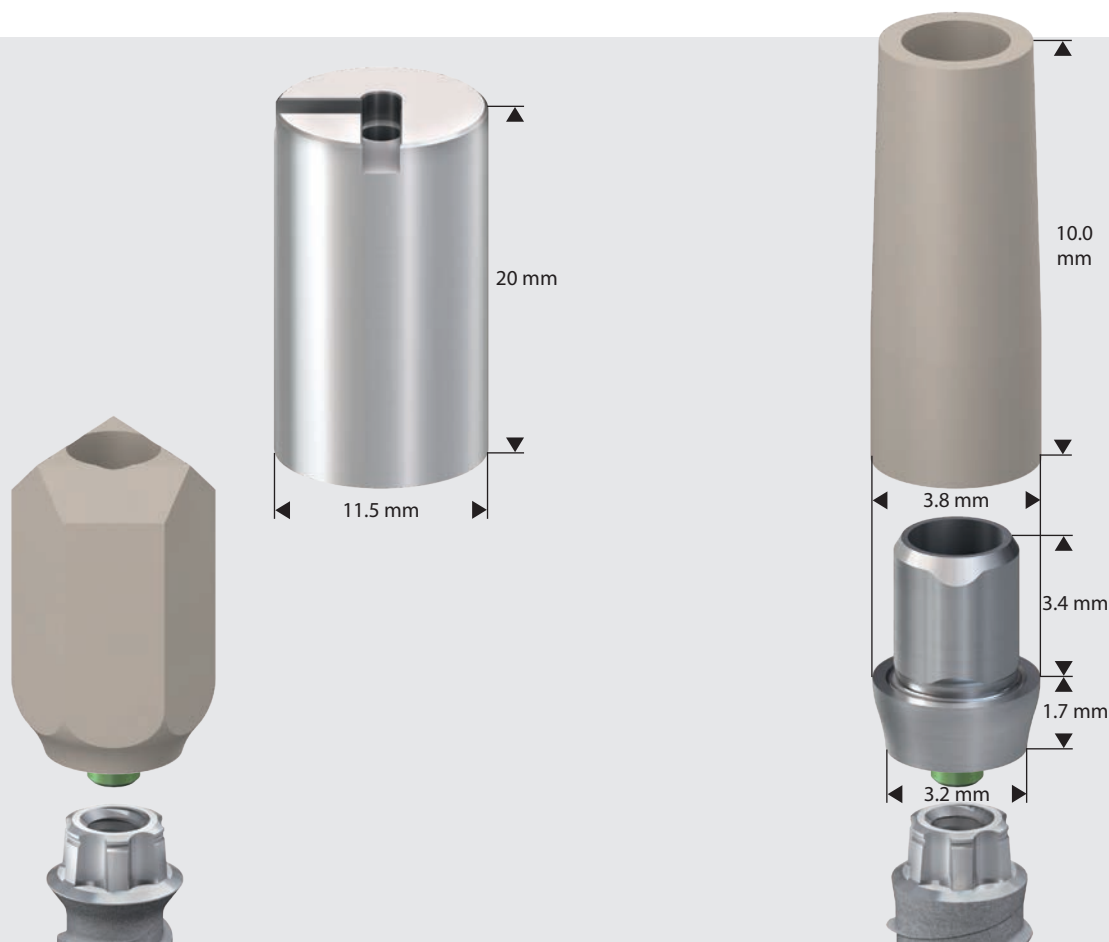
Standard abutments



- Precision torx ensures optimal load application of abutments in the implant
- Loosening of screws is avoided
- Available in titanium or BioXS versions
- The mini²SKY MD abutments (Multi-Divergence) enable divergence balancing simply by shortening with no time-consuming grinding
- The prosthetic copings facilitate modelling of the bridge restoration and offer the highest level of precision for tension-free adhesions

REF	m25SKYMDT	m25SKYMDB	m25KYS22
Description	mini ² SKY MD Abutment titan	mini ² SKY MD Abutment BioXS	mini ² SKY Screw 1.6
Pieces	1	1	6
Height / mm	9.0	9.0	4.7
Material	Titan Grade 4	Peek-Classix™	Titan Grade 5
Platform	mini ² SKY	mini ² SKY	mini ² SKY
Screw	incl.	incl.	-
Prosthetic key	SKY-SD 25	SKY-SD 25	SKY-SD 25
Torque / Ncm	20	20	-
Prosthetic coping	PMMA	PMMA	-

Individual abutments – analogue and digital



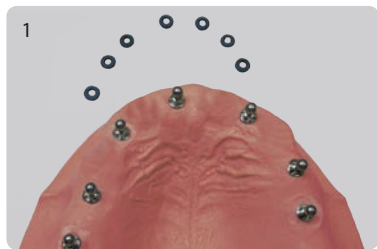
- Individual abutments in the digital workflow with the mini²SKY scan abutment and the mini²SKY prefab titanium

- Laboratory-manufactured individual abutments with mini²SKY uni.fit and model base
- Optimal aesthetics for the narrow gap

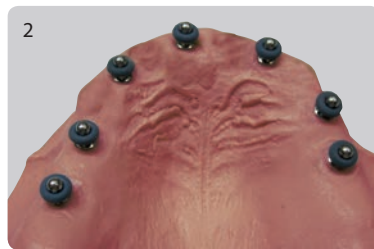
REF	m2KSCIE	m2SKYPFS	m2SKYUFA	UFCADMOD	m2SKYS22
Description	mini²SKY Scan-Abutment intraoral / extraoral	mini²SKY Prefab Titanium	mini²SKY uni.fit Abutment	Modelling sleeve for uni.fit CAD Abutments	mini²SKY Screw 1.6
Pieces	1	1	1	10	6
Height / mm	7.5	20.0	5.1	10	4.7
Material	Peek-Classix™	Titan Grade 4	Titan Grade 4	PMMA	Titan Grade 5
Platform	mini²SKY	mini²SKY	mini²SKY	m2SKYUFA	mini²SKY
Screw	incl.	incl.	incl.	-	-
Prosthetic key	SKY-SD 25	SKY-SD 25	SKY-SD 25	-	SKY-SD 25
Torque / Ncm	10	20	20	-	-

Impression and model manufacturing

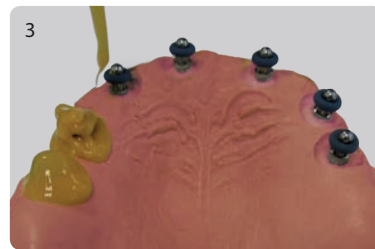
Impression and model manufacturing mini'SKY



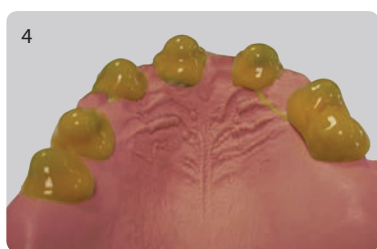
1
Initial situation



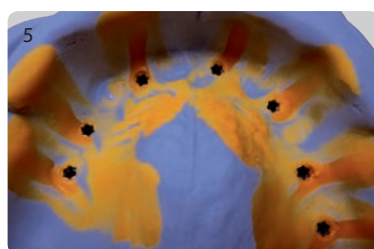
2
When making an impression of the mini'SKY implants, the o-ring (SKY-OR55) is placed over the ball head



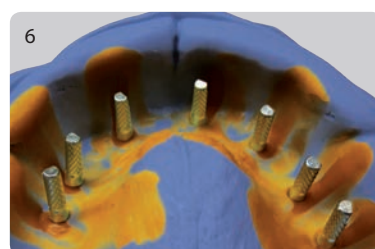
3
The torx of the mini'SKY implants and the o-rings is then fully molded using the impression material, brecision implant light (580 BL050).



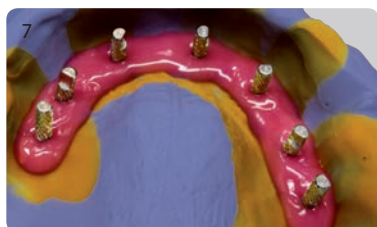
4
At the same time, the impression material brecision implant heavy (REF 580 BH38 0) is added to an impression tray and applied to the area being molded.



5
Once the impression material has cured, it is possible to carefully remove the impression tray. The o-rings remain in the impression. The torx of the mini'SKY implants is clearly recognizable and aids repositioning of the laboratory analog.



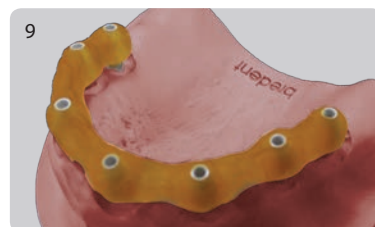
6
When repositioning the implant analog (m1SKYXIA), it is necessary to bear in mind that the torx geometry in the impression material corresponds with the orientation of the torx from the implant analog.



7
Using a gingival mask, Multisil-Mask hard (REF 540 0113 4), the implant analog must be blocked, ensuring that the exact position of the implant analog is maintained during model fabrication.



8
Control using a bridge framework has resulted in a high level of precision between the initial model and the model from the impression.



mini'SKY
Implant Analogue
REF m1SKYXIA



O-rings
6 pieces
REF SKY-OR55



2 x 50 ml Multisil-Mask soft
cartridges
27 pieces
REF 540 0104 1

Impression and model manufacturing mini²SKY

The mini²SKY gingiva former completely covers the high precision torx and supports and ideally moulds the soft tissue.

In order to mould mini²SKY implants, the mini²SKY impression abutment open tray (m2SKYPA1) is screwed onto the implants and moulded according to the standard procedure for the open-tray technique.

In order to produce the master model, the mini²SKY implant analog (m2SKYXIA) is screwed to the mini²SKY impression abutment and the model is manufactured from super-hard stone.

Transgingival healing with a prefabricated or individual gingiva former spares the patient a second intervention.



mini²SKY
Gingiva Former 3 mm
incl. Screw
REF m2SKYGF3



mini²SKY
Gingiva Former 5 mm
incl. Screw
REF m2SKYGF5



mini²SKY
Implant Analogue
incl. Laboratory Screw
REF m2SKYXIA



mini²SKY
Impression Abutment
open tray
incl. Screw
REF m2SKYPA1

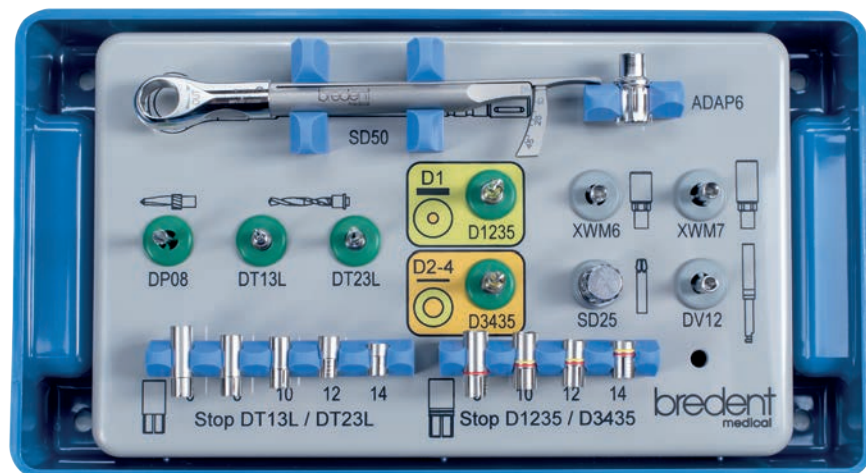


mini²SKY Laboratory Screw
10 pieces
REF m2SKYL22



Qu-resin rosa
Assortment 14 pieces
1 cartridge 50 ml
1 Qu-connector 10 ml
12 mixing cannulas,
size 1, blue
REF 540 0116 1

Instrument kit and component overview

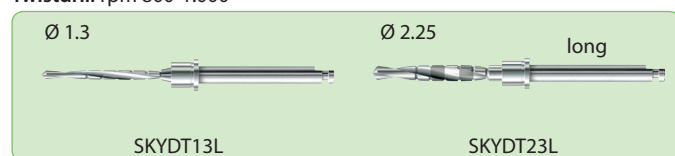


miniSKY Surgical Tray
REF mSKYOT41

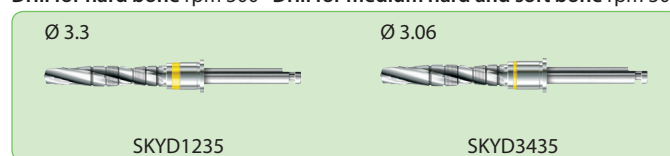
Drill Stops

		L 6 mm	L 8 mm	L 10 mm	L 12 mm	L 14 mm
Twistdrill		SKYXST06	SKYXST08	SKYXST10	SKYXST12	SKYXST14
Drill		–	SKYS0840	SKYS1040	SKYS1240	SKYS1440

Twistdrill rpm 800-1.000



Drill for hard bone rpm 300 Drill for medium hard and soft bone rpm 300



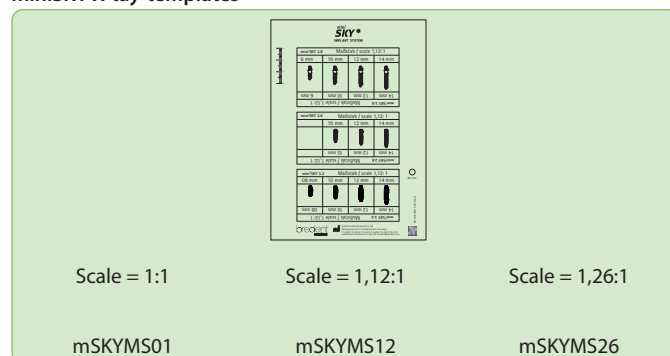
SKY Pilot Drill



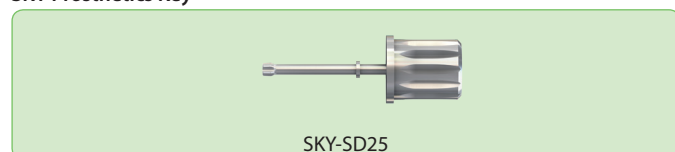
SKY Drill Extension



miniSKY X-ray-templates



SKY Prosthetics Key



SKY Connector Pro (Adapter)



miniSKY Mounter for contra-angle



miniSKY Mounter for contra-angle



Torque Wrench Pro



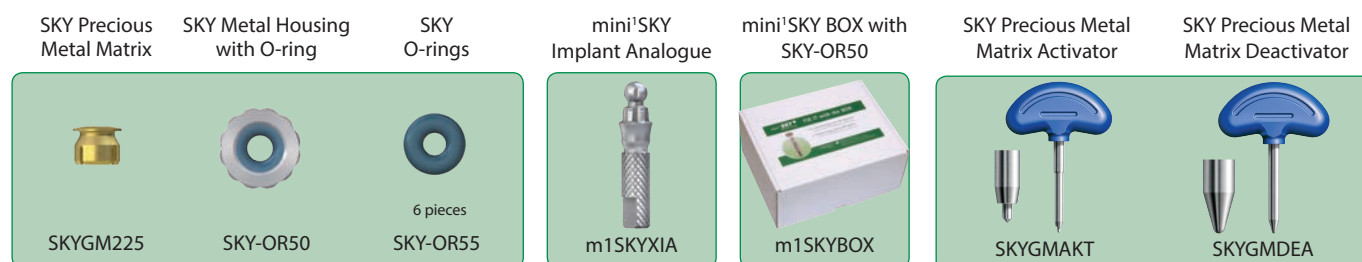
Locator® Mounter for contra-angle



Locator® Instrument



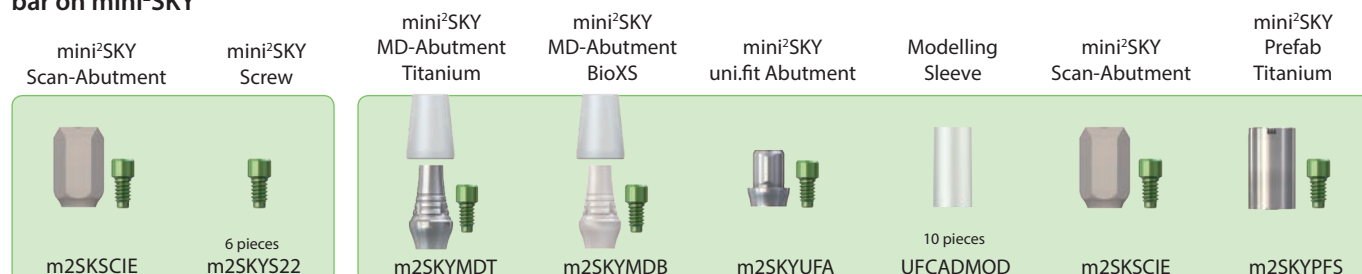
Prosthesis fixation for mini¹SKY



Prosthesis fixation for mini²SKY



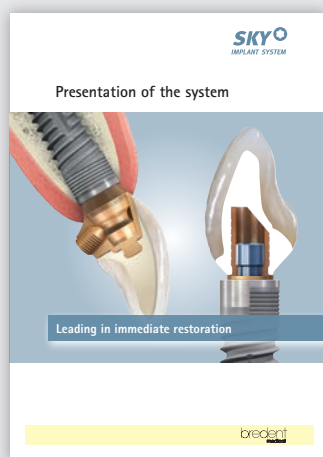
Prosthetic fixation with CAD/CAM manufactured bar on mini²SKY



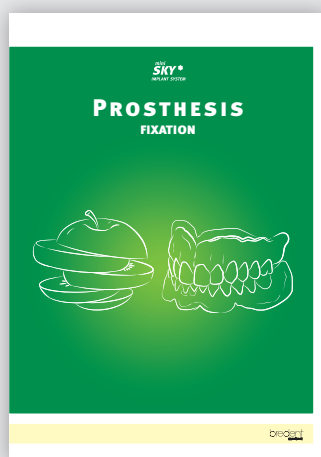
Impression abutments, laboratory analogues, gingiva former and screws for mini²SKY



Other offers that may be of interest



SKY Presentation of the system
REF 000250GB



miniSKY Prosthesis Fixation
REF 009911GB



mini¹SKY BOX
mit SKY-OR50
REF m1SKYBOX



mini²SKY BOX
mit mini²SKY retention.loc
REF m2SKYBOXRL



mini²SKY BOX
mit mini²SKY TiSi.snap
REF m2SKYBOXTI

009910GB-20180522 Mistake and subject to change reserved



DENTAL INNOVATIONS
SINCE 1974

brendent
group