# RevoCone®

## The removable bridge

GERMAN INNOVATION AWARD '21 WINNER

bredent group

*What makes the RevoCone® system special are its simple protocol, calibrated bredent quality and unbeatable price. Fixed or removable – this is how implant prosthetics work today!*

**Dr. med dent. Tim Übermuth M.Sc.**

Dr. Übermuth IMPLANTOLOGY

# Friction, adhesion and hydraulics for implant-friendly and long-lasting restoration

The **RevoCone housing** provides a secure hold for the matrices and adequate retention for bonding in the tertiary construction.

0 N | 4 N | 8 N | 12 N | 16 N

The **RevoCone cap** can be used in different pull-off forces for removable to partially removable.

The **RevoCone cone** with circular retention provides a secure hold for the matrices.


Optimal alignment of the implants thanks to **≤ 25° angulation**.

Prefabs for all common implant systems are available for the individually applicable system.

Production of the abutment **(RevoCone base** ) takes place in the digital workflow.

# Success with RevoCone

The prefabricated and custom-fit cone for each implant system enables straightforward, digital production and offers patients a high level of comfort thanks to a removable bridge design. The system offers the following advantages:


**Telescopic restorations offer the best conditions for care and recall. The snap effect provides optimal feedback for the final fit of the restoration.**

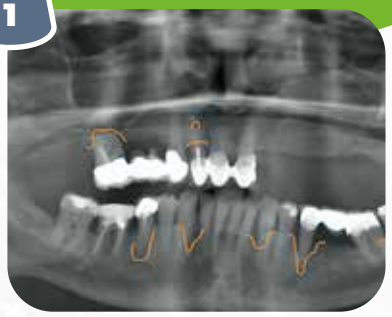

**Guided surgery**
**Inaccuracies caused by the drilling protocol are compensated by the special cone design.**


**A high static value is given with vertical and horizontal force. The force peaks are offset by the flexibility of the resin.**


**RevoCone supports the preservation of abutment teeth with a strategic increase in the number of abutments by improving statics and reducing incorrect loading.**

# Better statics due to preservation of the abutment is achieved by increasing the number of abutments – essential for patients

1

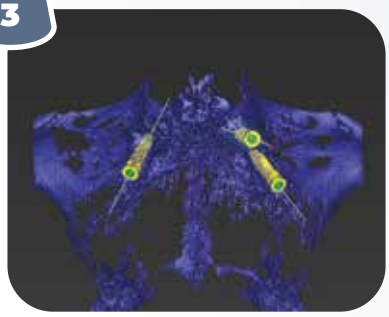


Overview image is recorded for diagnostic purposes.

2

Three teeth are worth preserving and pre-prepared for conical crowns.

3



The DTV is used to determine the implant positions.

4

The drilling template for guided implantation is designed in CAD.

5

The drilling template is produced quickly and cost-effectively using the printing process.

6

The correct implant positions are set using the RevoCone base for producing the temporary restoration.

7

The implants are placed using the drilling template according to the protocol.

8

The RevoCone cones are attached with DTK adhesive.

9

Once the suture is closed, the RevoCone housings are attached with the white RevoCone caps..

10

The digital impression is used to produce the provisional inlay.

11

The digitally planned framework is made from BioHPP.

12

The provisional inlay is supplied with the yellow RevoCone caps with 8 N for secure fixation.

13

The primary crowns are fixed with the RevoCone housing for the impression.

14

The provisional inlay is temporarily glued to the stumps until the implants heal.

15

Meanwhile, the primary crowns are made.

16

After the healing phase, primary crowns and RevoCone housings are blocked for the impression.

17

The soft gingival mask facilitates the completion of the prosthesis.

18

Increasing the number of abutments with statically optimal support forms the basis for the removable prosthesis.

19

The framework is glued to the RevoCone housings stress-free. Excess adhesive can be easily removed occlusally.

20

The prosthesis can be exchanged with different frictions of the RevoCone caps as required.

# Late restoration in the lower jaw with 4 implants for a firmly fitting prosthesis

1

Due to the atrophy of the jaw, the teeth are no longer stable enough to provide abutments for a prosthesis.

2

The implants (SKY in this case) are statically correctly distributed for a removable prosthesis.

3

After the healing phase, the healing caps are removed and an impression is taken.

4

The RevoCone base is manufactured with a common insertion direction of max. 25° inclination.

5

The RevoCone cones are provisionally fixed on the RevoCone bases with flow.sil.

6

The 5° RevoCone cones are parallel to each other for easy insertion of the prosthesis.

7

The tertiary structure is cast or digitally constructed.
An adhesive gap enables stress-free bonding.

8

The RevoCone bases are screwed onto the implants in the correct position and the screw channels are closed.

9

The RevoCone cones are glued onto the bases.

10

The tertiary structure is bonded stress-free in the mouth with DTK adhesive.

11

The yellow RevoCone caps provide a secure hold for the prosthesis as well as easy removal of the prosthesis for cleaning.

12

Correct distribution of abutments enables dorsal prosthesis removal with optimal mucosal support.

1

**The RevoCone double crown system provides a secure hold for the prosthesis and can be designed to be easily removable to partially removable, depending on requirements.**

2

**The simple and efficient processing in the practice and laboratory opens up new perspectives, and a removable bridge design offers a high level of comfort throughout the day.**

3

**The material components enable the production of biocompatible dentures from a single alloy using the milling process. This reduces the potential for tension therefore improving the taste sensation.**

# The planned immediate restoration offers a fast, simple fitting of the prosthetic restoration



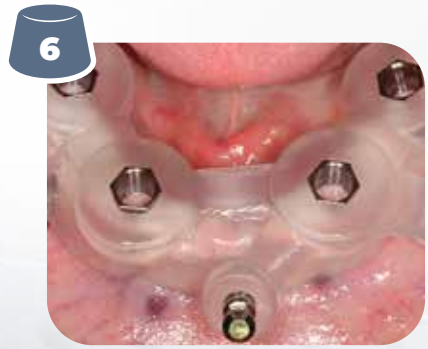


1-4 The RevoCone bases are designed with a CAD programme (e.g. Exocad). The RevoCone cones are positioned from the library. The tertiary framework is then constructed.

The RevoCone base is milled from the appropriate prefab for the implant system used and the tertiary construction is made of cobalt-chromium or titanium.

At the same time, the drilling template is planned with drilling sleeves and then produced using the 3D printing process. Care must be taken to ensure the exact position of the drill sleeves so that the RevoCone base can be inserted in the correct position.

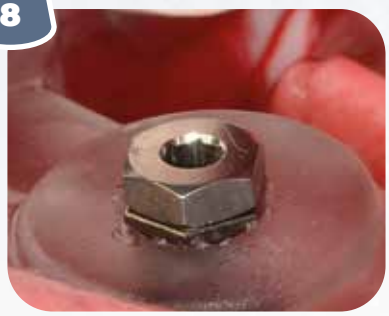

The scan template is used to establish the bite relationship.




The drilling template is fixed in the correct position with three pins and the implant position is marked.


After removing the mucous membrane, the drilling template is repositioned over the pins.

8



The exact coverage of the two hexagons is important for the exact position of the RevoCone base.

9

The bone is smoothed to one level after implantation.

10

The RevoCone base is tightened to the appropriate torque and the screw channel is closed.

11

The temporary suture makes it easier to fix the rubber dam and secure the RevoCone cones.

12

The RevoCone housing (on white caps) has a secure, frictionless fit.

13

The stress-free bonding of the tertiary structure enables an implant-friendly fit.

13

The impression for the master model is produced before removing the tertiary structure.

14

The prosthetics are produced quickly in the laboratory using digital preparation.

15

The yellow RevoCone caps are used for healing the implants and fixing the prosthesis.

*“My expectations for implant restoration were already high – but they were exceeded. Now, that‘s what I call quality of life!”*

**Karin M.**
Hanover

## What you gain at a glance:

## For your patients

- Significantly lower costs for top-quality implant-supported restoration
- Restorations can also be provided under changed/life situations
- Lower production costs mean that average earners can also afford higher-quality implant-supported restorations
- The option of increasing the number of abutments in the event of tooth loss means that there is a secure hold for the prosthesis
- Better cleanable solution compared to a bar solution

## At the laboratory

- The use of CAD/CAM processes (e.g. with DCS machines) means huge time savings
- Less work required thanks to subsequent adjustment work
- Simple production of a double crown system by young, computer-savvy technicians
- No storage of pre-assembled parts due to small number of components

## At the practice

- Access to new patients thanks to lower overall costs
- Easy restoration options for patients with different implant arrangements
- Simple, fast and cost-effective replacement of retention elements
- Significantly simplified treatment protocol
- Time-consuming friction adjustments are no longer necessary

# An ingeniously simple system!

The low number of RevoCone components makes the system easy to use.
Stock-keeping is reduced and the production of custom-fit, digitally produced dentures is simplified.

**RevoCone housing**
2 pieces

**REF 43061001**

**RevoCone cone**
2 pieces

**REF 43061002**

**RevoCone cap**
**Matrices white 0 N** - 4 pieces

**REF 43061000**

**RevoCone inserter**
1 Piece

**REF 43061003**

**RevoCone cap**
**Matrices green 4 N** - 4 pieces

**REF 43061004**

**RevoCone cap white, green, yellow, red, blue, 2 matrices each**
1 set

**REF 43061010**

**RevoCone cap**
**Matrices yellow 8 N** - 4 pieces

**REF 43061008**

**RevoCone analogue**
2 pieces

**REF 43061006**

**RevoCone cap**
**Matrices red 12 N** - 4 pieces

**REF 43061012**

**RevoCone cap**
**Matrices blue 16 N** - 4 pieces

**REF 43061018**

# … digital - what else?

Digital immediate restoration
– the premium course for dentists and their teams

gemäß den Leitsätzen der 15 Fortbildungs-Punkte BZÄK / DGZMK

by Dr. Übersmuth IMPLANTOLOGY

From handling data sets and backward planning to selecting the right implants in the SKY Fast & Fixed protocol. In this course, you will learn how to use and implement the digital workflow practically in your everyday work.

## Course content/course objectives:

**Day 1 (theoretical part):**

- Implant planning with CoDiagnostiX
- Handling of data sets
- Correct implant selection
- Indication for immediate implantation vs. Immediate loading
- Virtual insertion and risk assessment
- Prosthetic planning - “backward planning”
- When is the right time to augment?
- Fast&Fixed in the digital workflow (1)

**Day 2 (practical part):**

- Drafting of immediate provisional inlays
- Production of milled provisional inlays (DCX™ - DC7™)
- SKY Fast&Fixed in the digital workflow (2)
- RevoCone ® - the lifetime abutment

Request a course programme now at:
**dental-concept-systems.com/fortbildung**

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