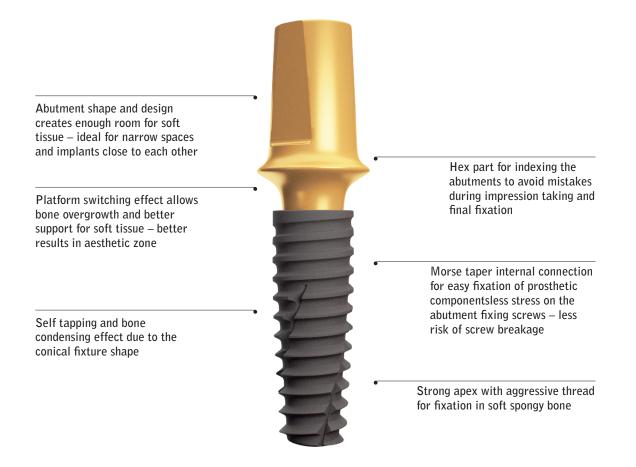
PRODUCT CATALOGUE

www.biometricdental.com

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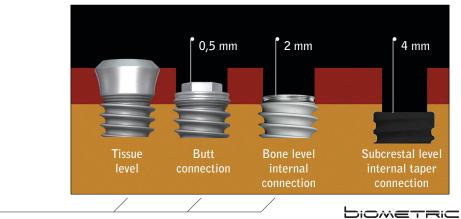
SIMPLE AND UNIVERSAL FIXTURE GEOMETRY Designed for tissue care and aesthetic results



^{1.} Lazzara, RJ; Porter, SS. Platform switching: a new concept in implant dentistry for controlling postrestorative crestal bone levels. Int J Periodontics Restorative Dent. 2006 Feb; 26(1):9-17.

^{2.} Schoenbaum, TR. Abutment Emergence Profile and Its Effect on Peri-Implant Tissues. Compend Contin Educ Dent. 2015 Jul-Aug; 36(7):474-9.

CHOOSING THE IMPLANT TYPE Emergence profile



Implant X

MORSE-TAPER CONNECTION

Morse taper internal connection for easy fixation of prosthetic components – less stress on the abutment fixing screws – less risk of screw breakage



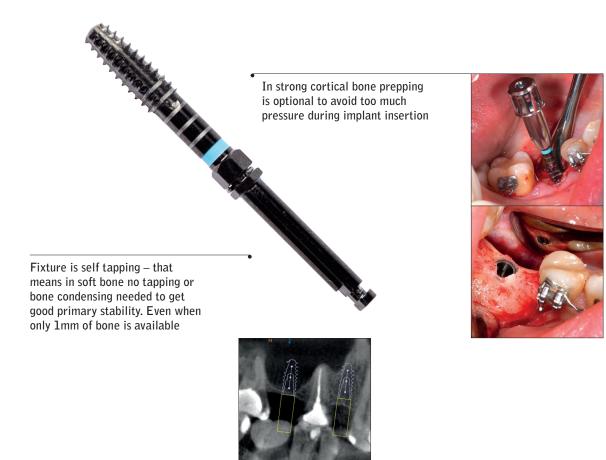
Bone overgrowth effect



IMPLANT SYSTEM

SELF TAPPING AND DRILLING DESIGN

Aggressive in soft bone and gentle in cortical areas Force direction to apical part of implant

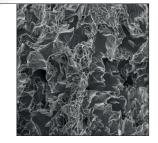


SLA SURFACE TREATMENT

Studies demonstrate that the surface roughness is important for osteoblast adhesion, proliferation, differentiation and on protein synthesis. Biometric implants have excellent SLA surface topography to ensure fast osteointegration

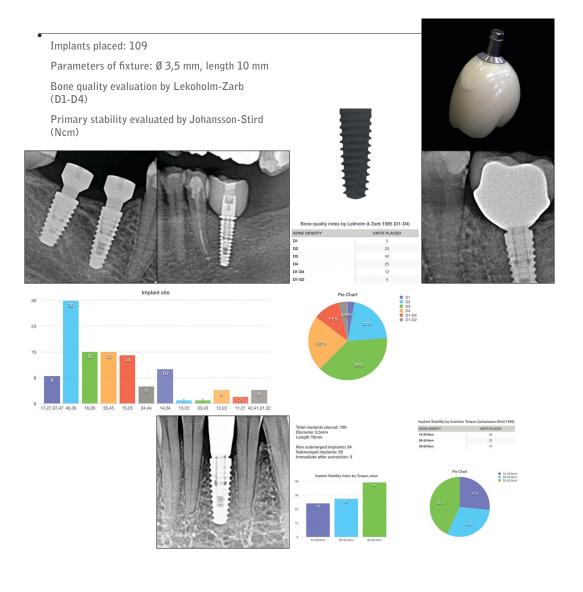


Surface magnified to 3 µm



Platform areas have less aggressive treatment to make it easier to clean or modify in the case of bone loss and Periimplantitis Micro-rough surface still allows bone adhesion

CLINICAL TESTS The goal was to evaluate implant primary stability in different bone qualities



7

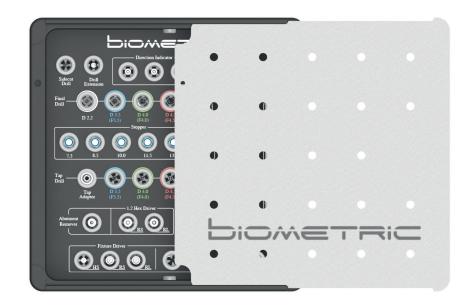


THE CONCEPT

- Simple and universal fixture geometry
- Sharp conical connection for strong fixation, bone overgrowth and better force distribution; no micro gap and micro movement
- SLA surface treatment different roughness in platform area
- Self tapping and drilling design aggressive in soft bone and gentle in cortical areas, force direction to apical part of implant
- Simple universal kit and less instruments
- Designed for tissue care and aesthetic results
- Compatible with CAD CAM systems and prosthetic solutions



BIOMETRIC INSTRUMENT KIT Introduction



DESIGN

The Biometric instrument kit is designed to keep the surgical and prosthetic instrument set as simple as possible and to prevent mistakes during implant surgery or maintenance. Biometric's philosophy is to protect the environment and act responsibly.

MATERIALS

High-quality materials have been used to create a long-lasting and durable product. An aluminum (AL6061) metal case and slide cover are able to be placed into the autoclave thousands of times and are suitable for heavy use. All materials are recyclable, and no plastic has been used in our product.

FULLY AUTOCLAVABLE

The shape and size of the Biometric surgical kit are designed to fit any kind of autoclave. As many as two or three kits, including surgical instruments, can be placed into the autoclave at once.



SIDECUT DRILL

The sharp TrimRite® stainless steel Lindemann drill (a sidecut drill) is useful as a pointing instrument. It also has a side-cut effect to correct implant angulation.

DRILL EXTENSION

The drill extension has a unique design. It's extremely safe to use – a perfect fit with all other surgical instruments without a risk of losing any parts during critical surgical steps. The instrument is used in complicated situations where more length is needed. The drill extension is also useful for implant insertion with an HS fixture driver.

DIRECTION INDICATOR

Direction indicators are useful for checking single implant angulation during preparation. This step is important for screw-fixed prosthodontics or use of a CAD-CAM TI-Base. Indicators are also essential for paralleling multiple implants.

FINAL DRILLS

High-quality and long lasting TrimRite® stainless steel final drills are color coded and laser marked. A simple and effective design helps to avoid over-heating of the bone and has several cutting zones to prevent vibration during preparation - no need for internal cooling. Working speed is a max of 2000 rpm. Attention! It is highly recommended to replace drills after 25-30 surgeries to avoid any heat damage!



Stoppers are useful for safe surgery. No need to focus on laser marks, and no need to calculate depth. Stoppers are designed for the specific inplant length + 1 mm for correct implant positioning (1 mm subcrestal).

BIOMETRIC INSTRUMENT KIT Contents

COUNTERSINK DRILL

Countersink drill can be used to avoid cortical tension and complications while inserting implant. Drill also has a bone condensing effect when used counterclockwise.

TAP INSTRUMENTS

Tap instruments are designed both for bone condensing and preparation of delicate cortical bone. Tapping helps to avoid overcondensing of the strong bone, which may lead to bone loss and implant failure.





HEX DRIVERS

The 1.2 HEX driver is used to match both healing abutments and final prosthetic components. The 1.7 HEX driver and 0.9 HEX driver are used to fix spacers and membrane screws.

ABUTMENT REMOVER

The abutment remover is useful for opening already tightened abutments. The abutment remover is also recommended for use in dental labs. The abutment HEX is a delicate structure and can be distorted using inappropriate devices.



FIXTURE DRIVERS

Fixture drivers are designed to fit perfectly into an implant's internal thread slot. Be careful with insertion - all force over 50-60 Ncm may lead to distortion of internal implant structures and can cause failure.

TORQUE DRIVER

The torque driver is a universal instrument for HEX drivers used in surgery or prosthetic procedures.

DEPTH GAUGE

The depth gauge has laser marked tip and depth marks. All measurements have been calculated with the principle of +1 mm to avoid incorrect implant positioning.



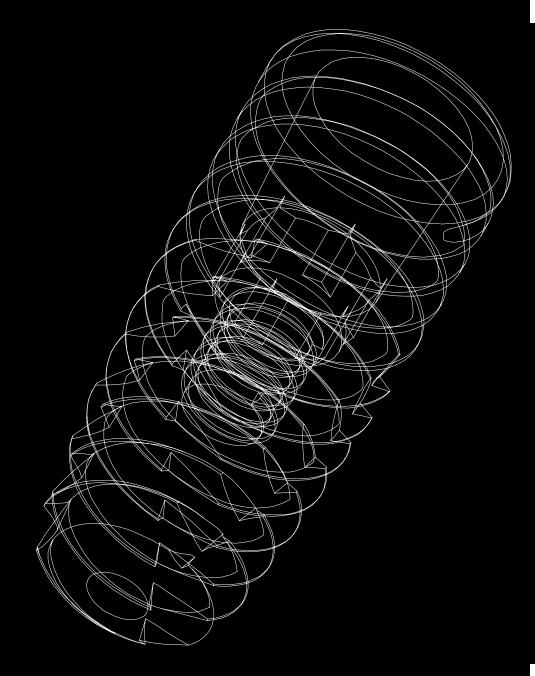


Insertion torque Submerged approach: 10-20 Ncm. Nonsubmerged approach: 20-30 Ncm. Immediate loading: 30-40 Ncm. Do no exceed 40 Ncm.

Diometer

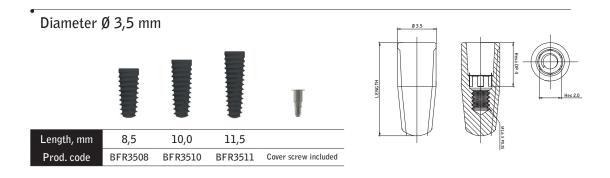
DOMETRIC

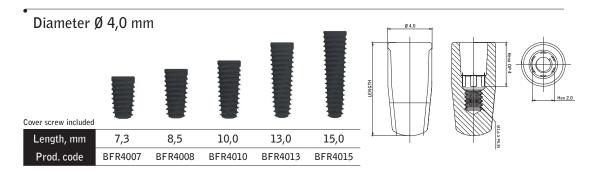
BIOMETRIC PRODUCT CHART Fixture Healing Impression Lab analog Abutment CAD-CAM coping Sirona-Cerec CAD-CAM Fixture Spacer Healing Pick-up Regular Rescue compatible Ti abutment impression lab analog abutment scan body base straight Ţ Membrane Individual Transfer Cemented Sirona-Cerec CAD-CAM Cover screw fixing screw / healing impression abutment compatible Ti lab analog Access screw abutment base angled Angled abutment

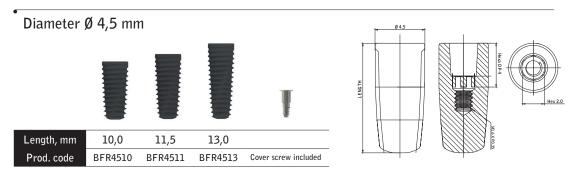


BIOMETRIC FIXTURE Regular platform

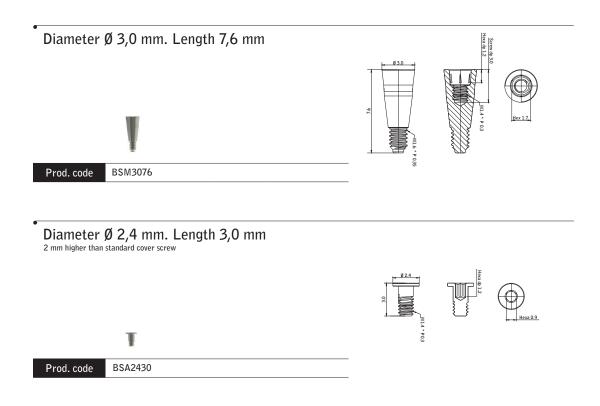
* Material: Titanium Gr4



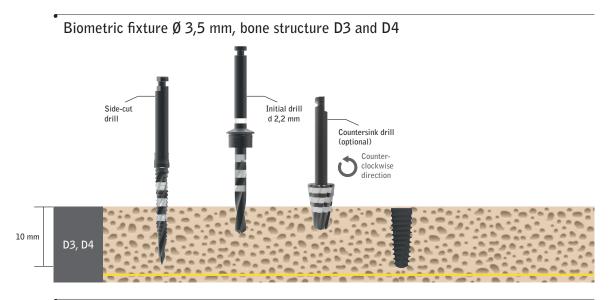




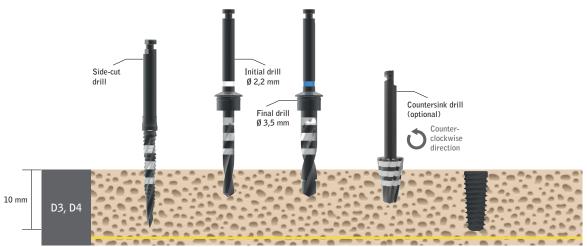
MEMBRANE FIXING SCREW WITH SPACER / ACCESS SCREW



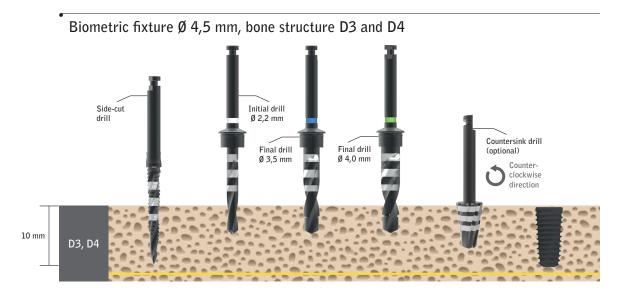
Bone structure D3 and D4



Biometric fixture \emptyset 4,0 mm, bone structure D3 and D4



Bone structure D3 and D4



NB

All depth-marks on instruments include +1 mm for correct implant positioning.

NB

Use sharp probe or side cut drill for direction marking and bone sounding.

NB

Drill only 1/3 length with initial Ø 2,2 mm drill if necessary.

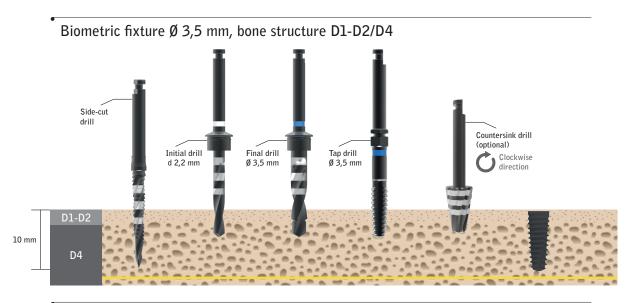
NB

Position implant at least 1 mm deeper from the crest.

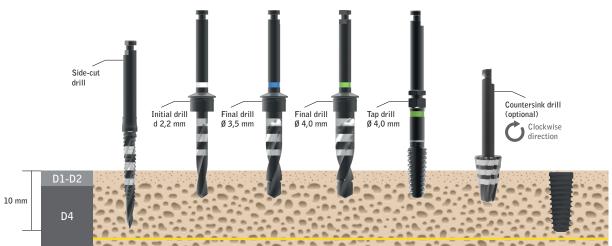
TIP

Use Ø 3,5 mm tap drill for bone condensing and insert Ø 4,5 mm implant to avoid bone damage and spinning effect.

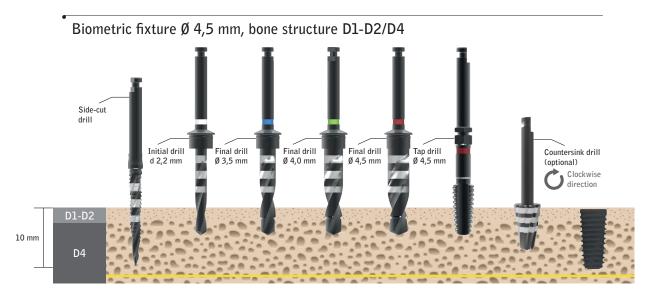
Bone structure D1-D2/D4



Biometric fixture Ø 4,0 mm, bone structure D1-D2/D4



Bone structure D1-D2/D4



NB

All depth-marks on instruments include +1 mm for correct implant positioning.

NB

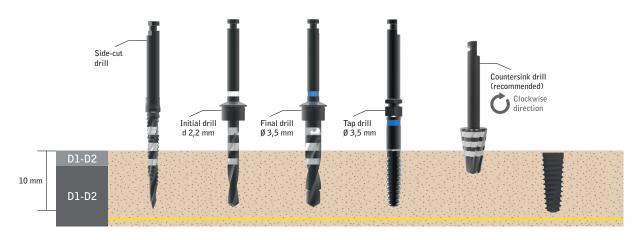
Only cortical drilling, only cortical pre tap.

NB

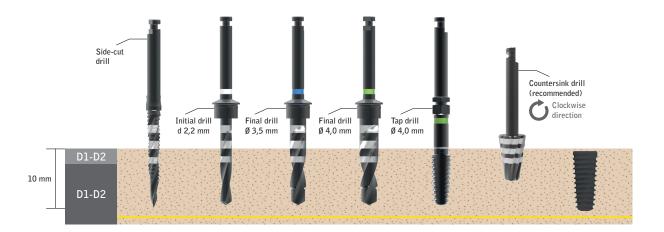
Position implant at least 1 mm deeper from the crest.

Bone structure D1-D2

Biometric fixture \emptyset 3,5 mm, bone structure D1-D2



Biometric fixture Ø 4,0 mm, bone structure D1-D2



Bone structure D1-D2

Biometric fixture Ø 4,5 mm, bone structure D1-D2

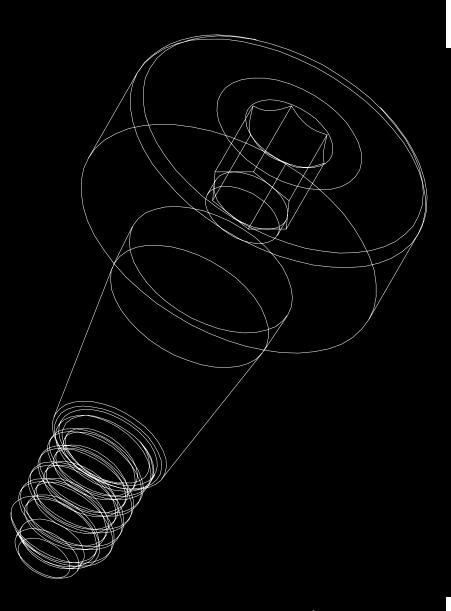


NB

All depth-marks on instruments include +1 mm for correct implant positioning.

NΒ

Position implant at least 1 mm deeper from the crest.



HEALING ABUTMENT

Temporary restorations for contouring of the soft tissue

* Tightening torque 8~10 Ncm



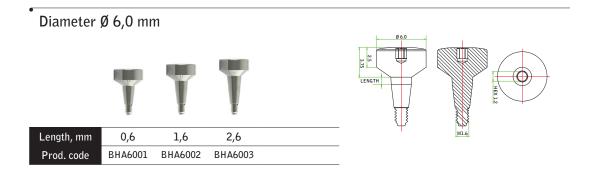


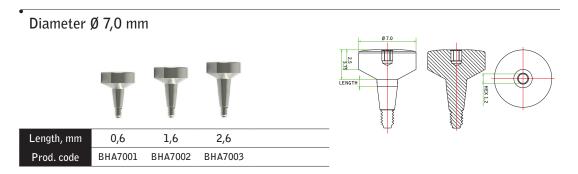
HEALING ABUTMENT

Temporary restorations for contouring of the soft tissue

* Tightening torque 8~10 Ncm



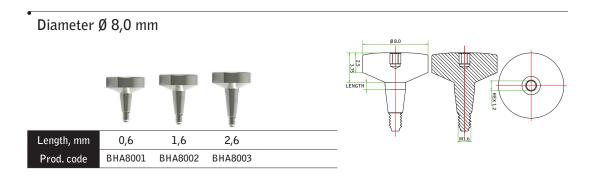




HEALING ABUTMENT

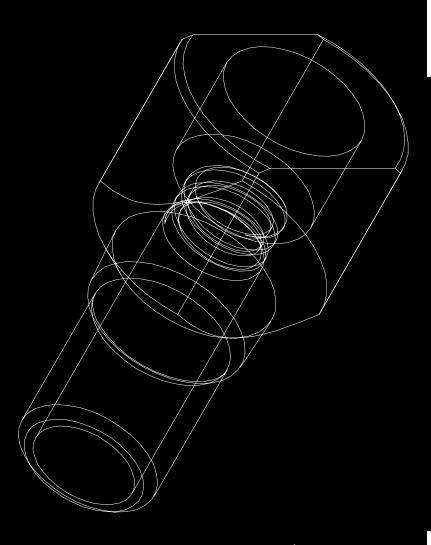
Temporary restorations for contouring of the soft tissue

* Tightening torque 8~10 Ncm

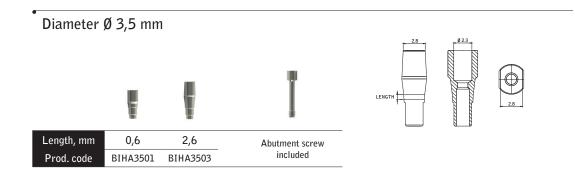


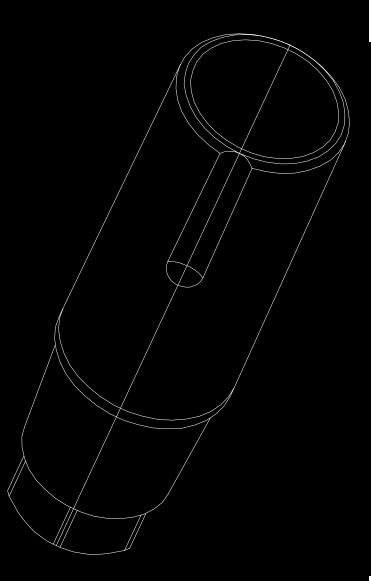
TIP

Wide healing abutment helps to create better soft tissue contour after tooth extraction or closing fresh extraction socket after implantation.



INDIVIDUAL HEALING ABUTMENT

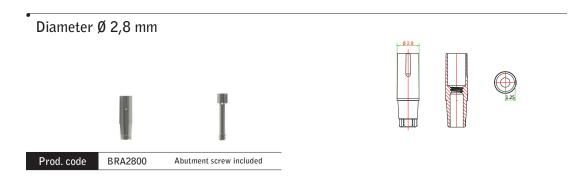




RESCUE ABUTMENT

Cementable on screw-retained abutment for single tooth and bridges

* Customisable by grinding * Tightening torque 30 Ncm



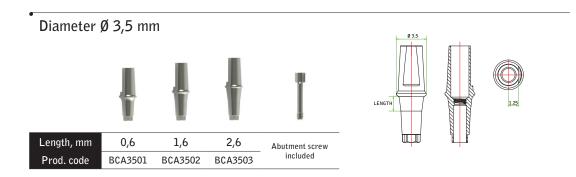
TIP

In case of bone remodelling or reduction, rescue abutment helps to place the crown margin directly on implant neck.

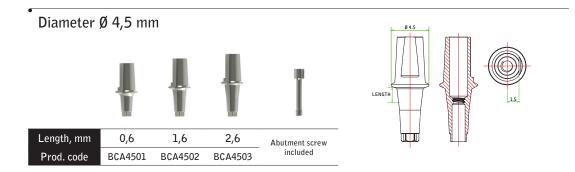
CEMENTED ABUTMENT

Cementable on screw-retained abutment for single tooth and bridges

* Customisable by grinding * Tightening torque 30 Ncm









ANGLED ABUTMENT

Cementable on screw-retained abutment for single tooth and bridges

* Abutment screw included * Tightening torque 30 Ncm

Diameter Ø 3,5 mm. Angle 15°



Diameter Ø 3,5 mm. Angle 25°



ANGLED ABUTMENT

Cementable on screw-retained abutment for single tooth and bridges

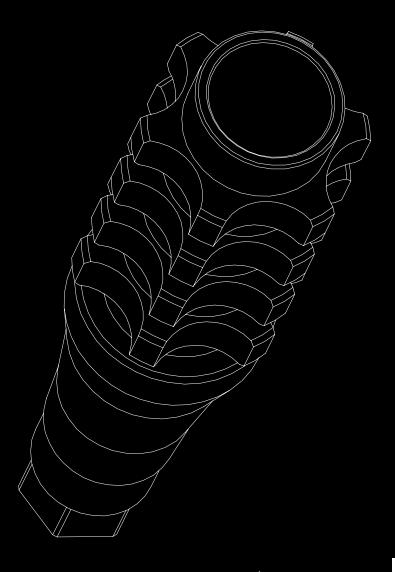
* Abutment screw included * Tightening torque 30 Ncm

Diameter Ø 4,5 mm. Angle 15°



Diameter Ø 4,5 mm. Angle 25°

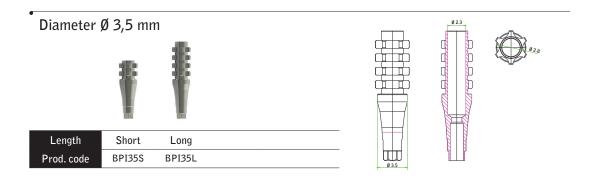


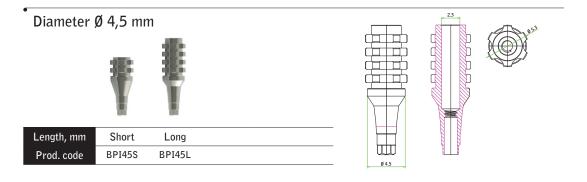


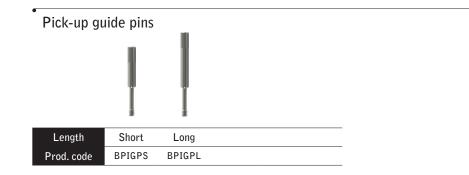
PICK-UP IMPRESSION

Pick-up impression coping

* Pick-up guide pin included * Tightening torque 8~10 Ncm







TRANSFER IMPRESSION

Transfer impression coping

* Transfer guide pin included * Tightening torque 8~10 Ncm

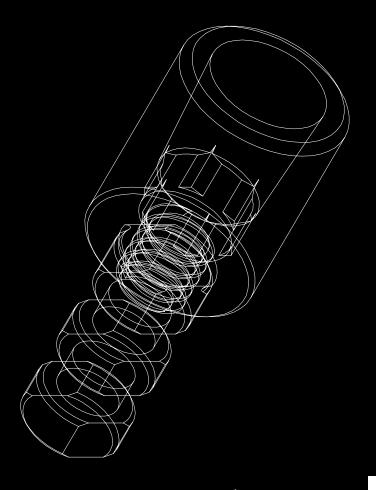






REGULAR LAB ANALOG Not suitable for 3D printed models



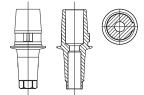


SIRONA-CEREC COMPATIBLE TI BASE STRAIGHT

* Fixing screw included

Diameter Ø 4,3 mm



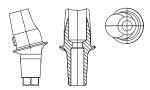


SIRONA-CEREC COMPATIBLE TI BASE ANGLED

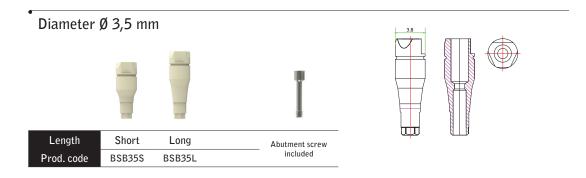
* Fixing screw included

Diameter Ø 4,3 mm. Angle 15°

| | | | Ī |
|------------|-----------|-----------|--------------|
| Length, mm | 2,0 | 3,0 | Fixing screw |
| Prod. code | BCTAA4502 | BCTAA4503 | included |



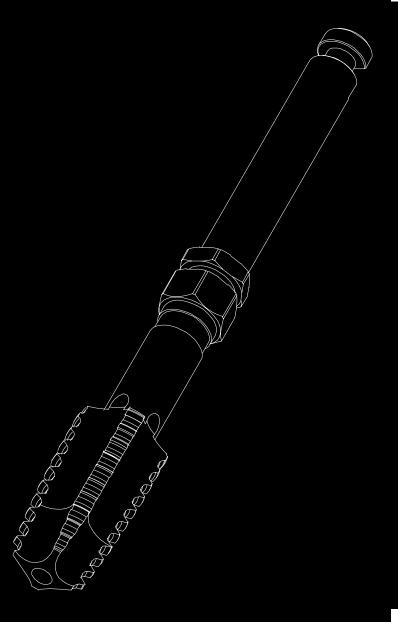
SCAN BODY

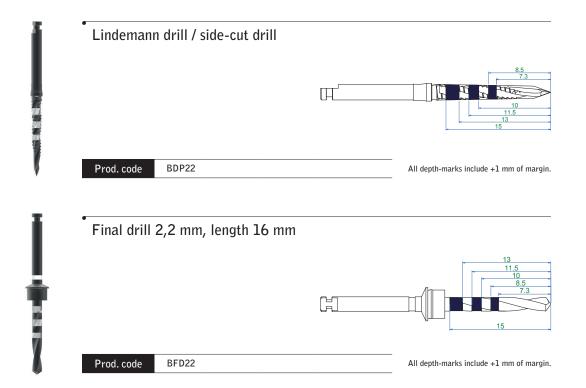


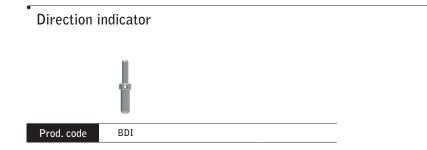
CAD-CAM LAB ANALOG For 3D-printed models

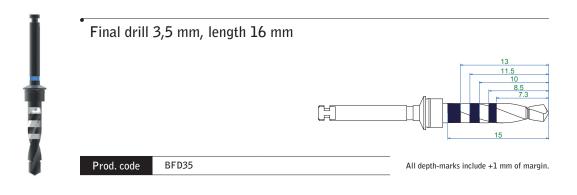
Hex 2

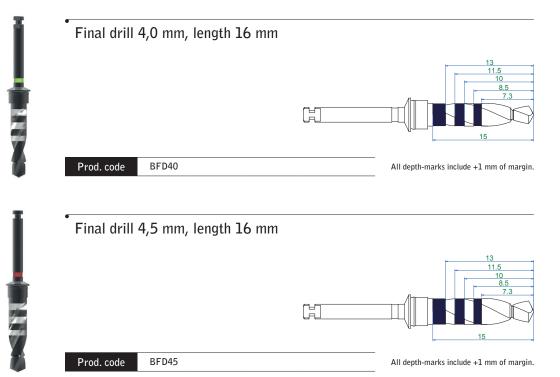












| • | | | |
|---------------|-------|------|--|
| Tap drill 3,5 | mm | | |
| | | | |
| | | | |
| | | | |
| | | | |
| Prod. code | STD35 | | |
| | | | |
| | | | |
| Tap drill 4,0 | mm | | |
| | | | |
| | | | |
| | | | |
| | | | |
| Prod. code | STD40 | | |
| | | | |
| Tap drill 4,5 | | | |
| Tap urin 4,5 | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| Prod. code | STD45 | | |

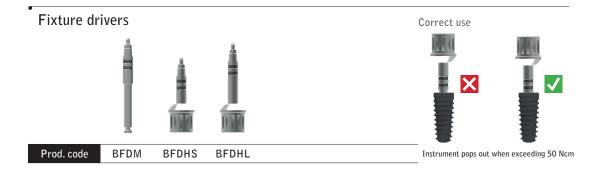
| Countersink drill Recommended for D1/D2 cortical bone structure Bone condensing effect when used counterclockwise Max speed 30 rpm | 8.6 7.26 Laser markings 0.5 End of thread Platform |
|--|--|
| Prod. code BCSD | |
| | |

| | Drill extensi | on | | |
|---|---------------|-----|------|--|
| ļ | Prod. code | BDE | | |

| Tap adapto | r | |
|------------|------|---|
| | | |
| Prod. code | BTDA | - |

Stoppers

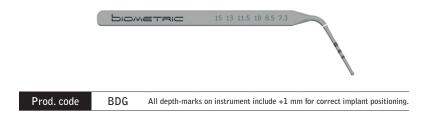
| Length, mm | 7,3 | 8,5 | 10,0 | 11,5 | 13,0 | 15,0 |
|------------|-------|-------|-------|-------|-------|-------|
| Prod. code | BST73 | BST85 | BST10 | BST11 | BST13 | BST15 |





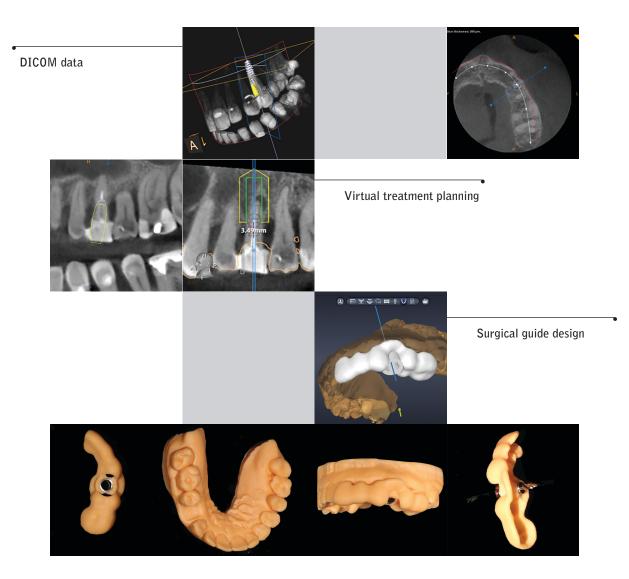
| HEX drive | ers | | | | |
|------------|-------|-----------|----------|-------|--|
| | | | | | |
| | DIV | DIV | | DIM | |
| HEX | 0,9 | 1,2 short | 1,2 long | 1,7 | |
| Prod. code | BHD09 | BHD12S | BHD12L | BHD17 | |

Depth gauge

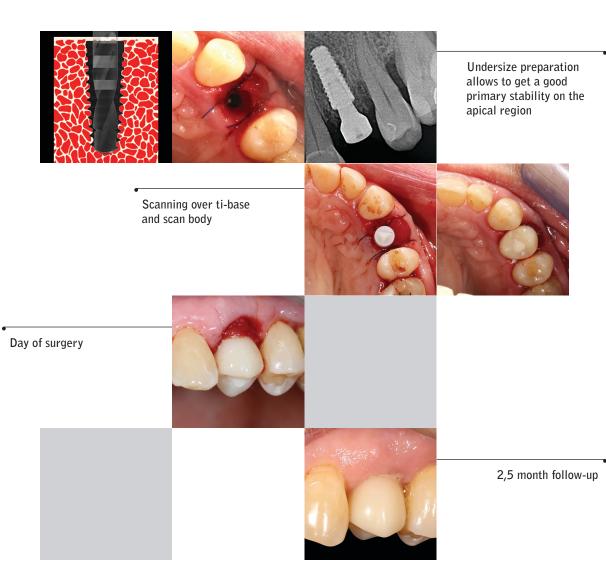


| Torque wr | ench | |
|------------|------|--|
| | | |
| Prod. code | BTW | |

CASE I :: COMPUTER GUIDED SURGERY



CASE I :: COMPUTER GUIDED SURGERY



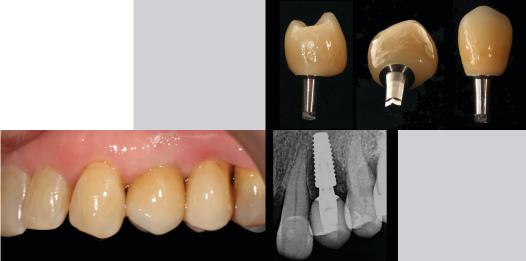
CASE I :: COMPUTER GUIDED SURGERY

Final prosthetics - the same day prosthetics

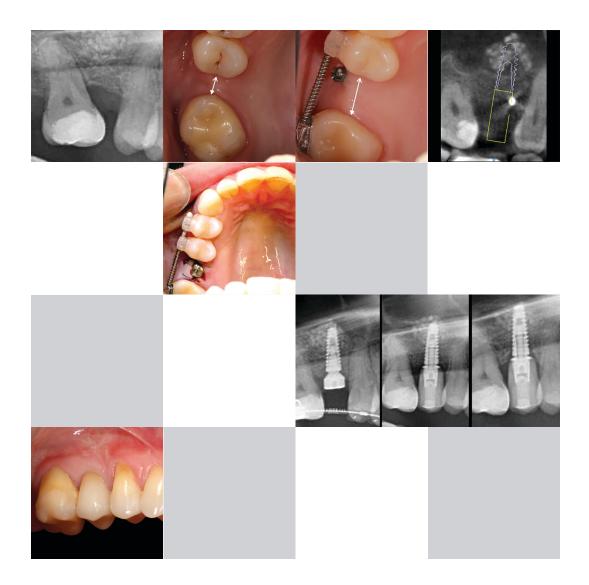




Emergence profile on molars and premolars



CASE II :: MISSING UPPER MOLAR



Clinical situation tooth 36: long treatment history, periodontal lesion, vertical fracture







Treatment options: Root canal re-treatment; hemisection; casted post and core and prosthetic crown placement; apicoectomy if needed.

Versus:

Immediate implantation after extraction, root guided surgery for optimal implant position; prosthetic crown with individual abutment.



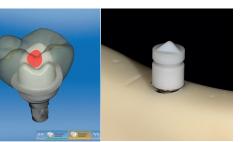


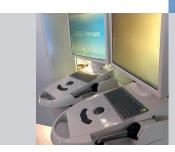
Perfect healing after five months

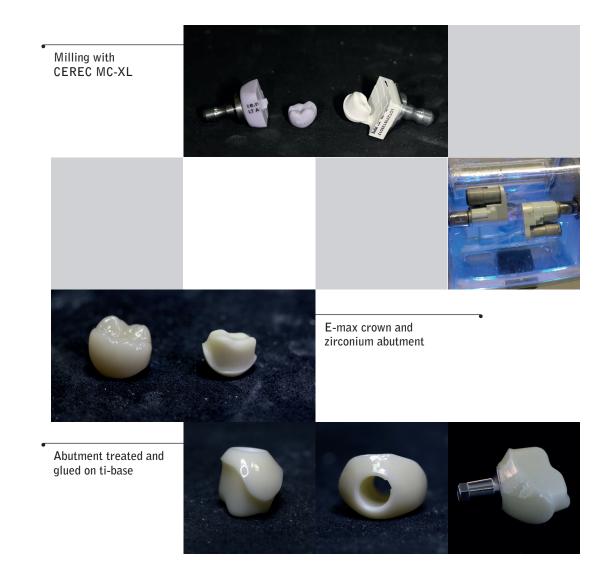


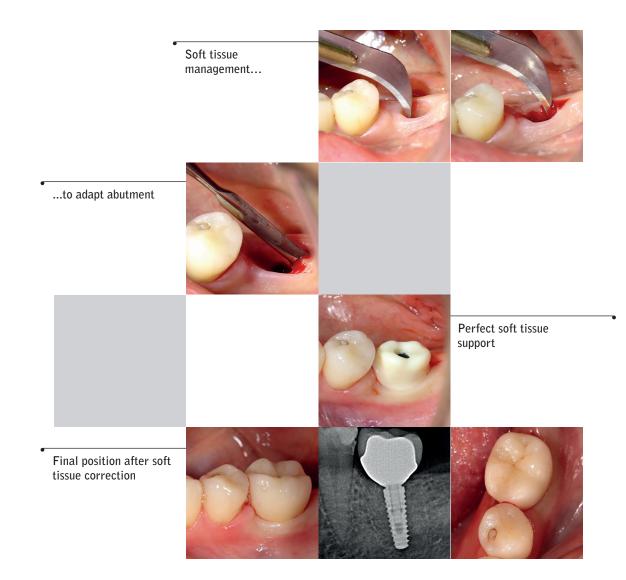


Scanning over ti-base and scan body











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