

*two*<sup>®</sup>

# Prosthetic Guide

bonafix  
surgical & dental implants

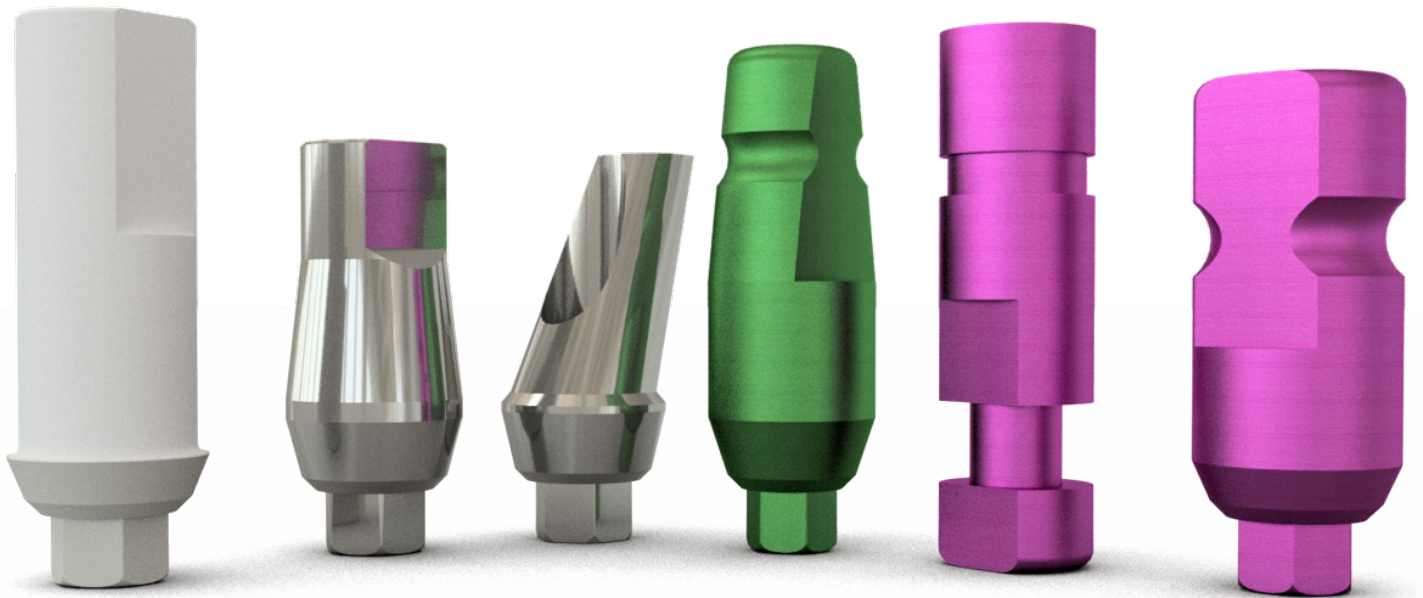
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# Introduction

Bonafix SDI offers prosthetic components, designed to provide clinicians with a wide range of prosthetic solutions, including support for single crowns, fixed and removable prostheses and anchors to fix overdentures. Bonafix TWO implants and abutments use proven prosthetic designs and provide clinicians and patients with predictable treatment options.



**bonafix**  
surgical & dental implants

# Description of Products

## HEALING ABUTMENT

The Bonafix Two implant Healing Abutment is used post-implant placement to close the implant connection and aid in soft-tissue management during the healing phase. Healing abutments may be placed immediately (single-stage protocol) or after an initial healing period (two-stage protocol). The Healing Abutment contains a hex of 1.25mm compatible with the Bonafix Two Driver (BTMRSDL/S). Each healing abutment is specific to the restorative platform of the seated implant.

Healing abutments are made in titanium alloy.



## IMPRESSION TRANSFERS

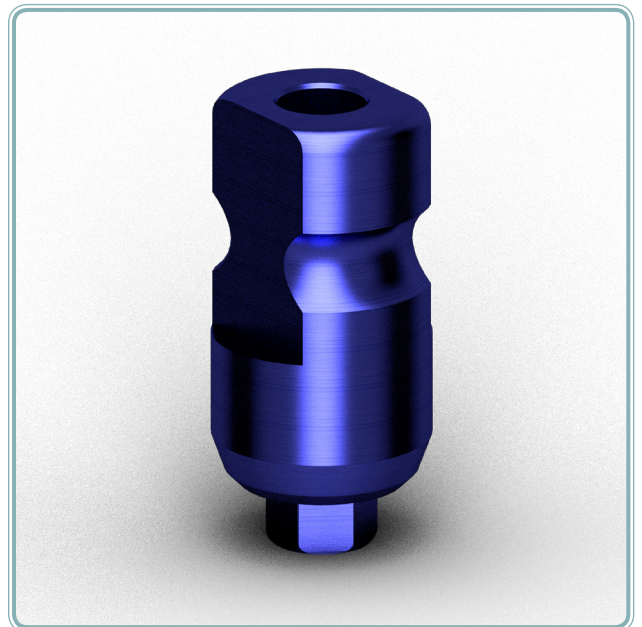
Bonafix Two Impression Transfer is designed to transmit the soft tissue profile as well as the implant's position, angulation, and hex orientation when captured in an elastomeric impression. Impressions may be taken with either the indirect or direct technique, depending on the clinician's preference and chairside conditions. Each Transfer is specific to the restorative platform of the seated implant and desired emergence profile.

Closed-tray impression copings are for use when employing an indirect transfer technique. In this technique the Transfers remain attached to the implants when the closed-tray impression is removed from the mouth. The transfer is then retrieved from the implant, mated to the corresponding Implant Analog, and placed into its corresponding impression hole.

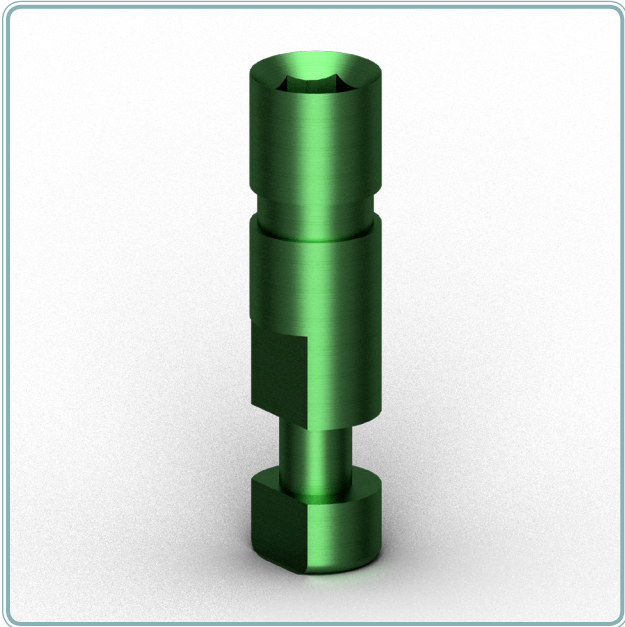
Open-tray impression copings are for use when using a direct transfer technique. In this technique the Transfers are held firmly within the open-tray impression as it is removed from the mouth. Therefore, the central transfer screw must be removed before the impression can be released from the mouth. This transfer procedure requires a custom tray or modified stock tray with screw access holes in the areas occlusal to the implants.

It is important to use the appropriate impression transfer for the transfer technique employed. Each Bonafix Two Transfer comes packaged with a Short retaining screw (closed-tray technique) and Long retaining screw (open-tray technique).

Impression Transfers are made in titanium alloy like retaining screws.

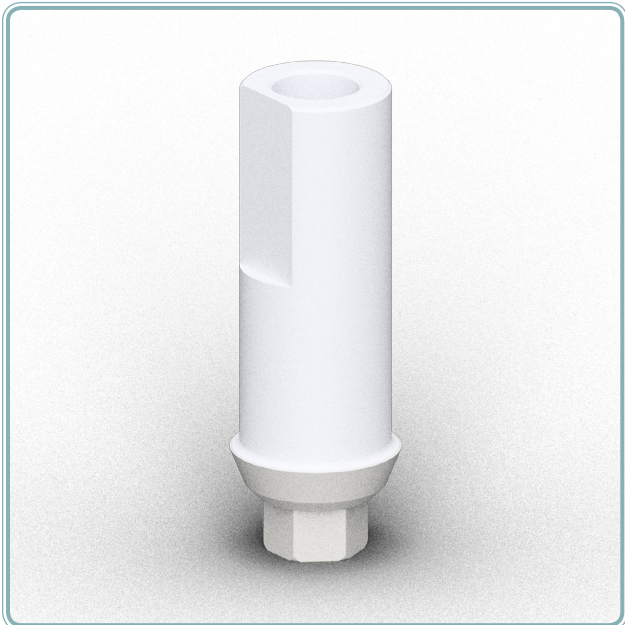


## 4 Description of Products



### ANALOG

Bonafix Two Analogs are platform-specific replicas of dental implant fixtures, used in a working model to represent the location and platform orientation of a seated implant. They are not intended for intraoral use. Prior to the casting process, the appropriate analog is attached to each impression coping captured in an elastomeric impression. Because each analog is specific to the restorative platform of the seated implant, it is critical that the analog platform matches that of the actual fixture in the oral environment. The Analog is fabricated in titanium alloy.



### CASTABLE ABUTMENT

The Bonafix Two Castable Abutment have double function, is designed to be used as Temporary abutment or UCLA plastic. As a Temporary Abutment may be used for cement- or screwretained crowns and in a laboratory or chairside procedure using any standard fabrication technique (e.g., vacuum-formed sheet, prefabricated crown/bridge form, etc.).

As a Temporary Abutment is indicated for single-unit (for engaging condition) and short-term restorations (30 days or less).

As a UCLA plastic can be used to create diagnostic wax-ups (try-in prostheses) or create an implant-level custom abutment for a cement- or screw-retained restoration through the casting process, creating a monolithic abutment. At the same as a Temporary Abutment

is indicated in for single-unit restorations (for engaging condition).

Each Castable Abutment is specific to the restorative platform of the seated implant.

Each Castable Abutment is packaged with a separate retaining screw compatible with the restorative instrumentation of the specified implant system.

The Castable Abutment is fabricated in acetal copolymer and retaining screw in titanium alloy.

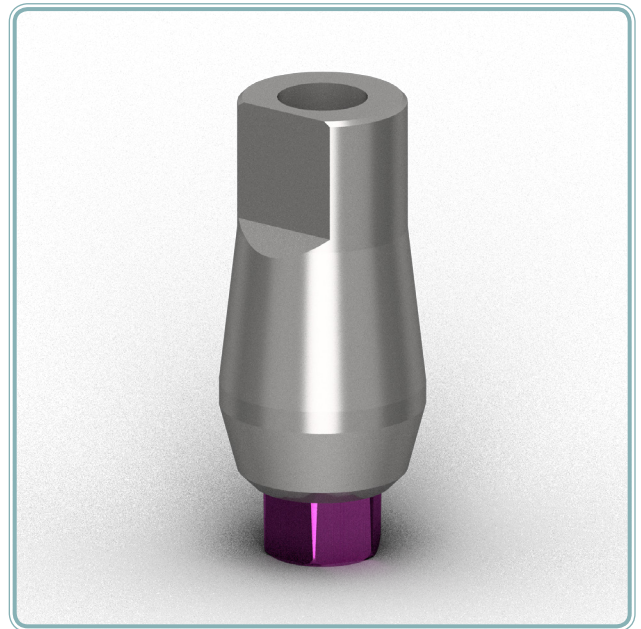
# Description of Products

## STRAIGHT ABUTMENT

The Bonafix Two Straight Abutments are prefabricated abutments, screw-retained intraoral abutments intended to be connected directly to an endosseous implant for retention of a cemented or screwretained dental prosthesis. They may be indicated for single- and multiple-tooth restorations. The straight abutment has in it's hex a configuration of one-degree tapered flats enabling it to fit to the hex of implant. This connection called "Smart-fit connection" provide a solid connection between the implant and the abutment for a successful procedure. (See page 11)

Each abutment is specific to the restorative platform of the seated implant. Straight abutments are made in titanium alloy like retaining screw.

Each Bonafix Two Straight Abutment comes packaged with two retaining screw.



## TEMPORARY ABUTMENT / TRANSFERS

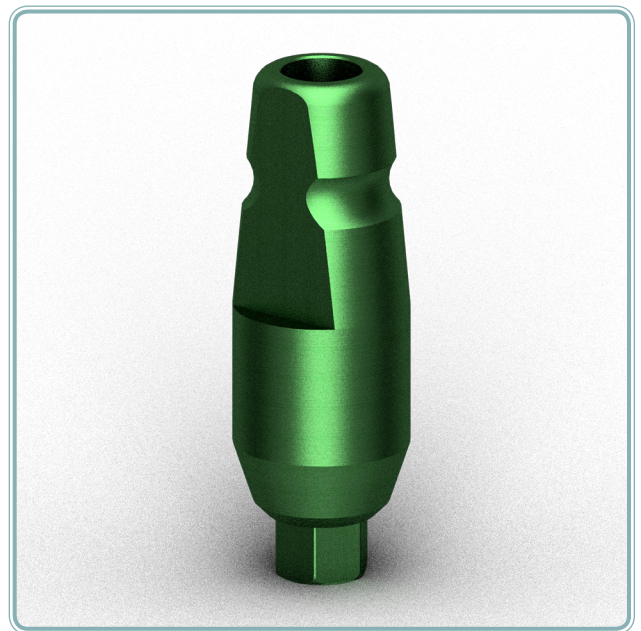
The Bonafix Two Temporary Abutment / Transfer have double function. As the name implies is desinged to be used as Impression Transfer and/or Temporary abutment.

As a Temporary Abutment may be used for cement- or screw-retained restorations. Provisional restoration can be made in a laboratory or chairside procedure using any standard fabrication technique (e.g., vacuum-formed sheet, prefabricated crown/bridge form, etc.). As a Temporary Abutment is indicated for single-unit (for engaging condition) and are not intended for applications exceeding 180 days during endosseous and gingival healing.

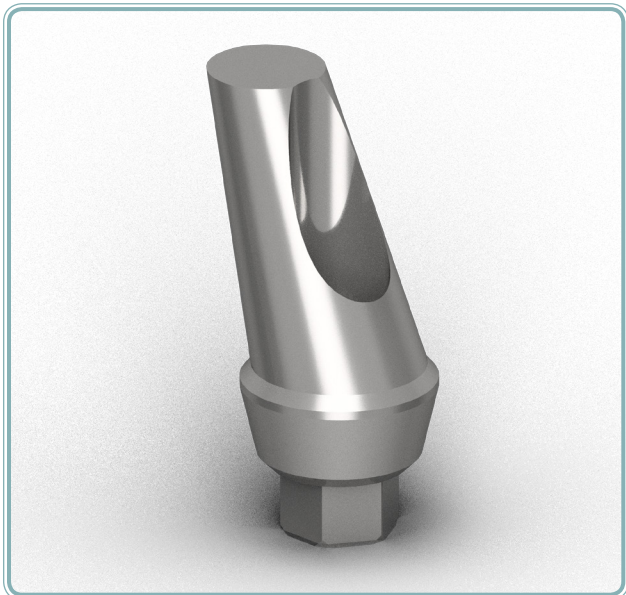
As a Impression Transfer can transmit the soft tissue profile as well as the implant's position, angulation, and hex orientation when captured in an elastomeric impression. Impressions may be taken with either the indirect or direct technique, depending on the clinician's preference and chairside conditions. This device have only one emergence profile for each platform.

Temporary Abutment / Transfer are made in titanium alloy like the screws.

Each Bonafix Two Temporary Abutment / Transfer comes in a pack with a reteining screw.



# Description of Products



## ANGLED ABUTMENT

The Angle Abutments are prefabricated, screw-retained intraoral abutments intended to be connected directly to an endosseous implant for retention of a cemented dental prosthesis. They may be indicated for single- and multiple-tooth restorations when the long axis of the implant is approximately 15° to 30° out of parallelism with the clinical long axis of the adjacent teeth. There must be acceptable soft tissue thickness to establish margins at least 0.5mm subgingival for esthetics. Each Angle Abutment is specific to the restorative platform of the seated implant. The angled abutment body is produced with a 20 degree slope. Is made in Titanium alloy.



## UCLA ABUTMENT

Bonafix Two Universal Clearance-Limited Abutments (UCLAs) are indicated for laboratory use to manually create an implant-level custom abutment for a cement- or screw-retained restoration. UCLAs are precisely machined and attached to the implant fixture (or implant analog) with a titanium screw. The plastic sleeve on top of the abutment provides a supporting structure on which to wax the restoration. Each UCLA is specific to the restorative platform of the corresponding implant. The base of UCLA is made in Cobalt-Chromium-Molybdenum Alloys.



## OVERDENTURE

This Ball Abutments are used in implant-retained, tissue-supported restorations where the patient is partially or fully edentulous in the arch to be restored (mandible or maxilla). It is recommended to use implants with a length in excess of 12mm and abutment heights should be kept to a minimum to maintain an acceptable implant/ abutment height ratio. Absolute parallelism is not a prerequisite for success as the rotational aspect of the Cap Attachment on the ball component allows for adjustment of up to 28 degrees of relative divergence between implants. The Overdenture are made in Titanium alloy.

# Narrow Platform

## Straight Abutment



Abutment Options	Profile	H
BTSAN3	3.35 mm (flare)	N/A
BTSAN4	4.30 mm	1.60 mm
Screw	BTPSN (2 screws included)	
Recommended torque: 30 Ncm		

## UCLA Abutment\*



Abutment Options	Profile
BTAUN	4.30 mm
Screw	BTPSN (2 Screws included)
Recommended torque: 30 Ncm	

## Angled Abutment



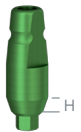
Abutment Options	Angle
BTAAN	20°
Screw:	BTPSN (2 Screws included)
Recommended torque: 30 Ncm	

## Castable Abutment\*



Abutment Options	Profile
BTCPAN	4.30 mm
Screw:	BTPSN (1 Screw included)
Recommended torque: 30 Ncm	

## Temporary Abutment / Transfer



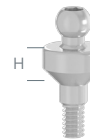
Abutment Options	Profile	H
BTTSAN	4.30 mm	1.60 mm
Screw	BTPSN (1 Screw included)	
Recommended torque: 30 Ncm		

## Transfer



Transfer Options	Profile
BTTN3	3.35 mm (flare)
BTTN4	4.30 mm
Screw	BTSSN (Closed-Tray) BTSSN (Open-Tray) Both Screws included
Recommended torque: 15-20 Ncm	

## Overdenture\*



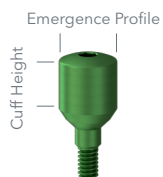
Overdenture Options	H
BTOBAN2	2.00 mm
BTOBAN4	4.00 mm
BTOBAN6	6.00 mm
Recommended torque: 15-20 Ncm	

## Analog Implant



BTAIN

## Healing Abutment



Options	Profile	Height
BTHCN33	3.35 mm (flare)	3.0 mm
BTHCN35		5.0 mm
BTHCN37		7.0 mm
BTHCN43	4.30 mm	3.0 mm
BTHCN45		5.0 mm
BTHCN47		7.0 mm

\* Ask your representative for availability

## Prosthetic Screws

### Prosthetic Screw Narrow



BTPSN

### Transfer Screw Short Narrow



BTSSN

### Transfer Screw Long Narrow



BTLSN

All screws and the Healing abutments, can be screwed with the tool BTMRSDL/S or any Generic Driver of 1.25mm



# S Standard Platform

Straight Abutment



Abutment Options	Profile	H
BTSAS3	3.75 mm (flare)	1.60 mm
BTSAS4	4.50 mm	
BTSAS5	5.50 mm	
Screw	BTPS (2 Screws included)	
Recommended torque: 15-20 Ncm		

UCLA Abutment\*



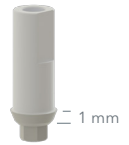
Abutment Options	Profile
BTAUS	4.50 mm
Screw	BTPSC (2 Screws included)
Recommended torque: 30 Ncm	

Angled Abutment



Abutment Options	Angle
BTAAS	20°
Screw:	BTPSC (2 Screws included)
Recommended torque: 30 Ncm	

Castable Abutment\*



Abutment Options	Profile
BTCPAS	4.50 mm
Screw:	BTPSC (1 Screw included)
Recommended torque: 30 Ncm	

Temporary Abutment / Transfer



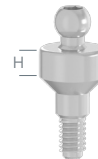
Abutment Options	Profile	H
BTTSAS	4.30 mm	1.60 mm
Screw	BTPSC (1 Screw included)	
Recommended torque: 30 Ncm		

Transfer



Transfer Options	Profile
BTTS3	3.75 mm (flare)
BTTS4	4.50 mm
BTTS5	5.50 mm
Screw	BTSS (Closed-Tray) BTSS (Open-Tray) Both Screws included
Recommended torque: 15-20 Ncm	

Overdenture\*



Overdenture Options	H
BTOBAS2	2.00 mm
BTOBAS4	4.00 mm
BTOBAS6	6.00 mm
Recommended torque: 15-20 Ncm	

Analog Implant



BTAIS

Healing Abutment



Options	Profile	Height
BTHCS33	3.75 mm (flare)	3.0 mm
BTHCS35		5.0 mm
BTHCS43	4.50 mm	3.0 mm
BTHCS45		5.0 mm
BTHCS47		7.0 mm
BTHCS53	5.50 mm	3.0 mm
BTHCS55		5.0 mm

\* Ask your representative for availability

## Prosthetic Screws

Prosthetic Screw



BTPS

Prosthetic Screw Cam



BTPSC

Transfer Screw Short



BTSS

Transfer Screw Long



BTSSL

All screws and the Healing abutments, can be screwed with the tool BTMRSDL/S or any Generic Driver of 1.25mm



# Wide Platform

## Straight Abutment



Abutment Options	Profile	H
BTSAW4	4.80 mm (flare)	1.60 mm
BTSAW5	5.50 mm	
BTSAW6	6.50 mm	
Screw	BTPS (2 Screws included)	
Recommended torque: 15-20 Ncm		

## UCLA Abutment\*



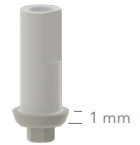
Abutment Options	Profile
BTAUW	5.50 mm
Screw	BTPSC (2 Screws included)
Recommended torque: 30 Ncm	

## Angled Abutment



Abutment Options	Angle
BTAAW	20°
Screw:	BTPSC (2 Screws included)
Recommended torque: 30 Ncm	

## Castable Abutment\*



Abutment Options	Profile
BTCPAW	5.50 mm
Screw: BTPSC (1 Screw included)	
Recommended torque: 30 Ncm	

## Temporary Abutment / Transfer



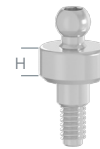
Abutment Options	Profile	H
BTSAW	4.30 mm	1.60 mm
Screw	BTPSC (1 Screw included)	
Recommended torque: 30 Ncm		

## Transfer



Transfer Options	Profile
BTTW4	4.80 mm (flare)
BTTW5	5.50 mm
BTTW6	6.50 mm
Screw	BTTSS (Closed-Tray) BTTSS (Open-Tray) Both Screws included
Recommended torque: 15-20 Ncm	

## Overdenture\*



Overdenture Options	H
BTOBAW2	2.00 mm
BTOBAW4	4.00 mm
Recommended torque: 15-20 Ncm	

## Analog Implant



BTAIW

## Healing Abutment



Options	Profile	Height
BTHCW43	4.80 mm (flare)	3.0 mm
BTHCW45		5.0 mm
BTHCW47		7.0 mm
BTHCW53	5.50 mm	3.0 mm
BTHCW55		5.0 mm
BTHCW63	6.50 mm	3.0 mm
BTHCW65		5.0 mm

\* Ask your representative for availability

## Prosthetic Screws

### Prosthetic Screw



BTPS

### Prosthetic Screw Cam



BTPSC

### Transfer Screw Short



BTTSS

### Transfer Screw Long

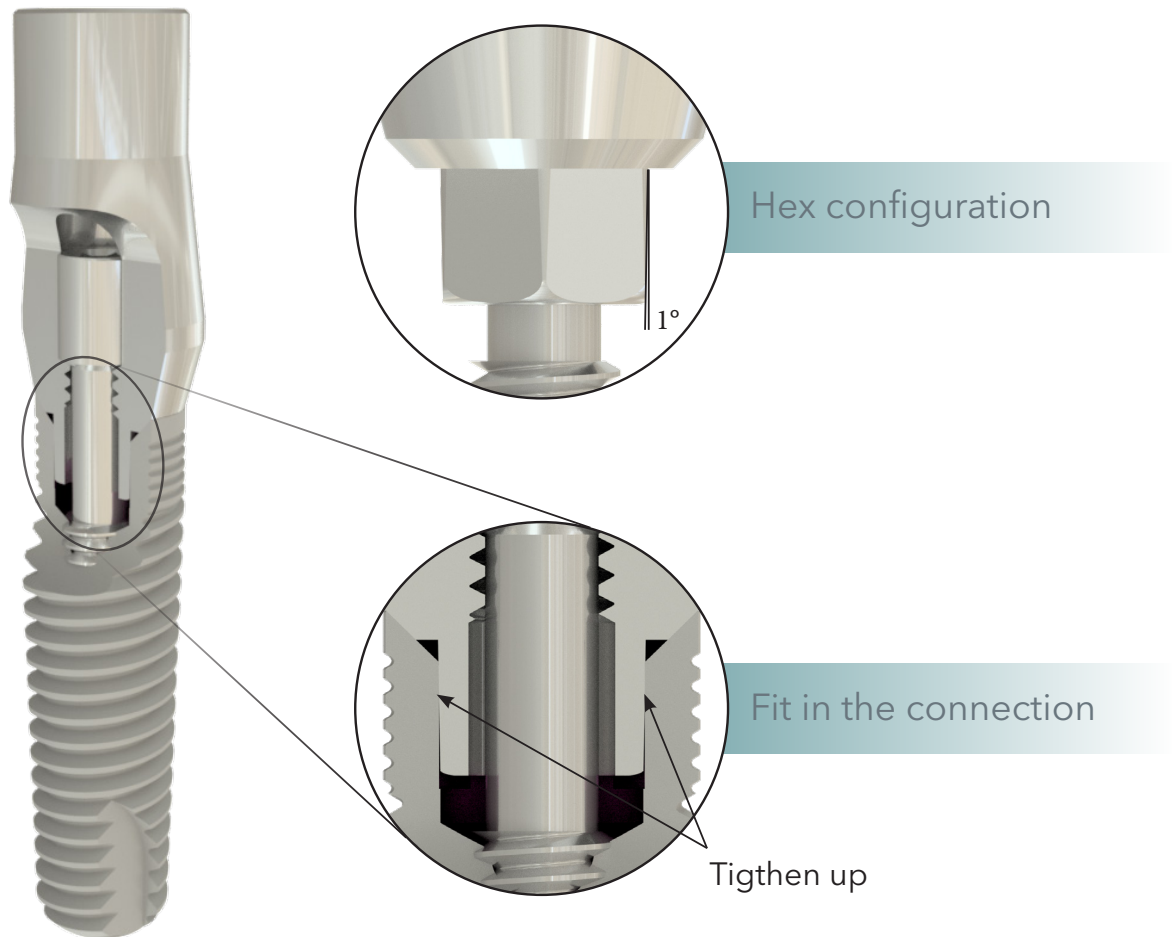


BTTSL

All screws and the Healing abutments, can be screwed with the tool BTMRSDL/S or any Generic Driver of 1.25mm

## Smart-fit Connection

The Bonafix Two system is designed with a "Smart Fit" connection between the implant and the abutment for a solid and successful procedure. The configuration of the one-degree angle on the hex provides a tight connection which may avoid any undesired micro movements in the future.



During the adjustment procedure between the abutment and the implant, it may be necessary to use an extraction tool to remove the abutment from the implant.



Extractor Tool  
(BTAE)



Screw the tool through  
the abutment.



The tool continues rotating,  
it will disengage the con-  
nection and gently lift the  
abutment.

Note: Only straight abutment of Standard and Wide platform have a Smart-fit connection

# Sterility

Bonafix Two Prosthetic Components are labeled NON-STERILE; it is recommended that parts are cleaned, disinfected, and sterilized according to a validated method prior to use in the oral environment.

- Cleaning: It is recommended to wash using a broad spectrum cleaning solution, followed by thorough rinsing and drying.

The recommended disinfection process is based on ANSI/AAMI ST79 guidelines, as follows:

- Disinfection: Immerse abutments in disinfectant<sup>1</sup>, rinse with distilled water, and dry.

The recommended sterilization process is based on the ANSI/AAMI/ISO 17665-1 and ANSI/AAMI ST79 guidelines, approved by FDA and validated by Bonafix SDI, as follows:

- Sterilization: (Gravity-fed sterilizers) Autoclave for thirty (30) minutes with a 10 min dry time at 121°C (250°F). Devices are to be used immediately after sterilization.

<sup>1</sup>Oral disinfectant containing Chlorhexidine is recommended. Refer to the disinfectant manufacturer's instructions.

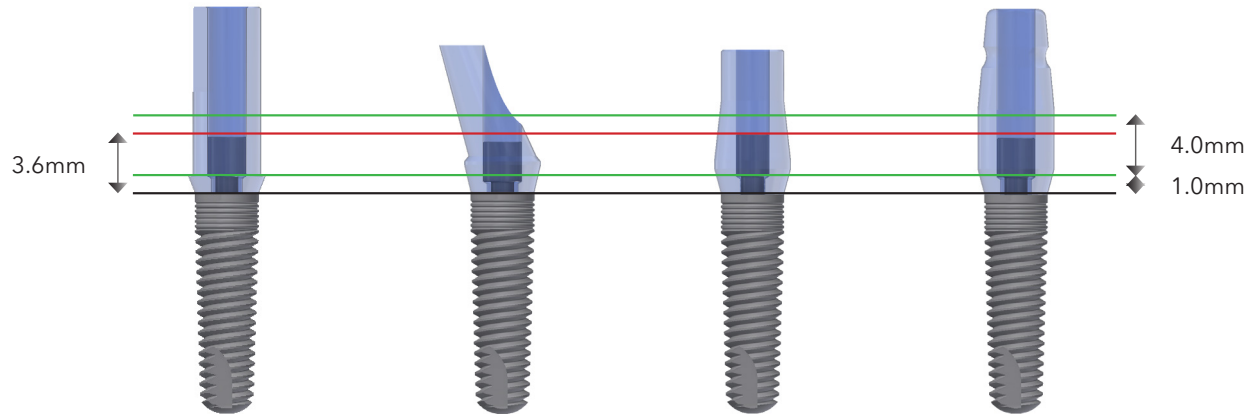
**NOTE:** The validated procedures require the use of FDA-cleared sterilization trays, wraps, biological indicators, chemical indicators, and other sterilization accessories labeled for the sterilization cycle recommended. The healthcare facility should monitor the sterilizer for the facility according to an FDA-recognized sterility assurance standard such as ANSI/AAMI ST79.



Do not re-sterilize the components unless specifically indicated on the product label, in the prosthetic manual or in any additional product documentation.

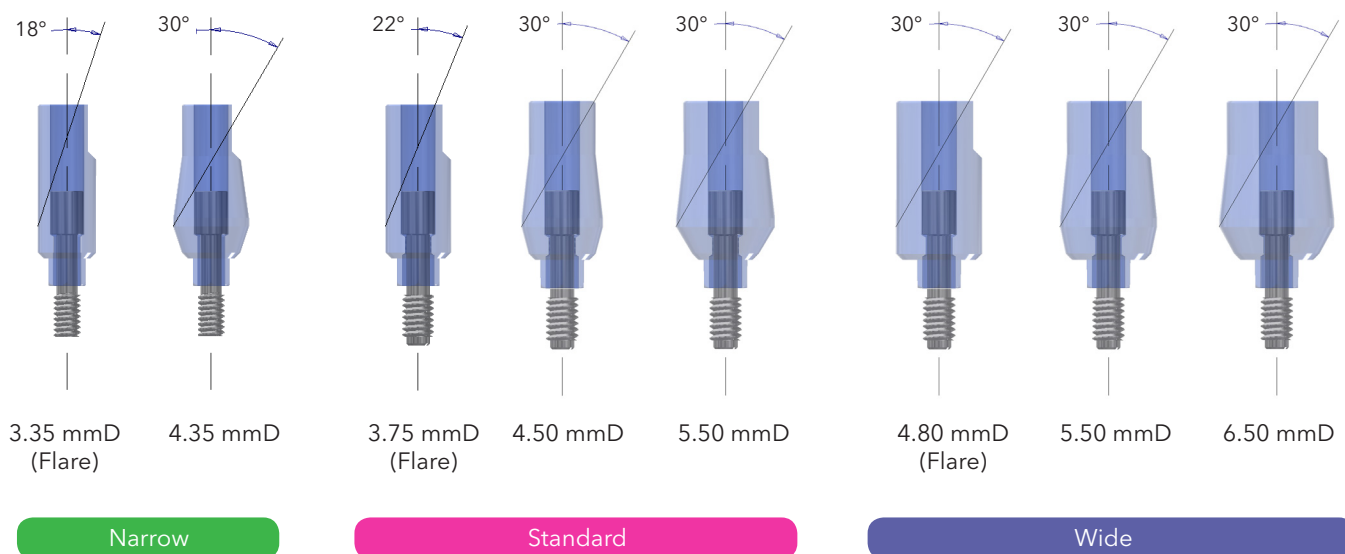
# Modifications Tips

## Abutment modification - Minimum height



It is recommended for the preparation of the abutment a minimum gingival collar height of 1mm and a minimum abutment post height of 4mm measured from the abutment shoulder (in other words from the top of the gingival collar) to the top of the abutments. These recommended measures give a level of safety on the critical line where the screw can be compromised. The critical line is 3.60mm (or less depend of case) measured from the connection with the implant.

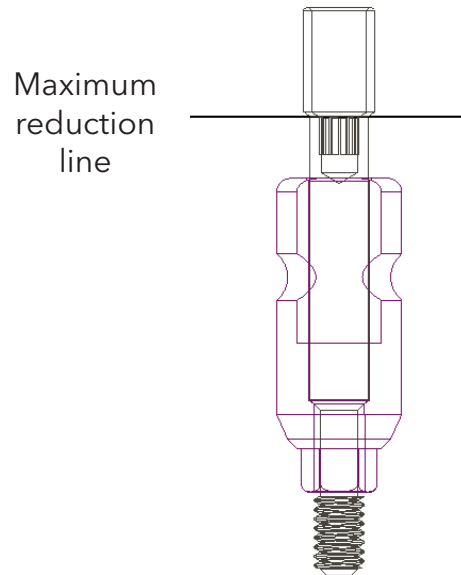
## Abutment modification - Maximum angle



The recommended maximum angle for abutment preparation is 30°. There are some cases where this maximum angle can compromise the screw (3.35 and 3.75). In such cases refer to the previous drawings.

# Modifications

## Transfer long screw- Reduction



In areas of limited vertical height, the transfer screw long can be removed and shortened by 4mm with a cutting disc prior to use.



Prefabricated titanium abutments should not be modified in the oral cavity. Any necessary modifications should be made extraorally by attaching the abutment to an implant analog retained by an analog holder or captured in a working model. Modify with a fine-diamond or carbide bur.



Bonafix implants are proudly made in the U.S.  
Our production facilities and contractors comply with:  
FDA, ISO 13485, ISO 9001



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118W Prive Cir. Delray Beach Fl, 33445 USA



Tlf (561) 7892411



[www.bonafixsdi.com](http://www.bonafixsdi.com)