



**Z** **ZAHNTIUM**  
Conical Connection Implant



MADE IN GERMANY

## About Our Company



### Modern Medical Equipment LLC

Founded in 2006, Headquartered in Dubai. U.A E, ZAHNTIUM is showing the dental implant industry how a strong business model can service customers effectively and economically. ZAHNTIUM is a full line top quality, compatible dental implants and accessories at a reasonable cost. we supply Dental Clinics, Doctors, Hospitals and laboratories with every type of specialized dental equipment for endodontics, implantology, Bone and membrane, and dental kits. we built a well-known, impeccable reputation in the community. Our management has many years of experience in the field of dental implants. At ZAHNTIUM we are not only the most competitively priced, service-oriented supply company in the nation; we are now the best full-line

compatible dental implants and accessories supply company.

We are located in Dubai but serve customers across the country of United Arab Emirates and beyond.

Two key differences between ZAHNTIUM and most other distributors are our broad product offering and our supply base. We are very proud to represent the leaders in dental implant manufacturing, and we work closely with our suppliers to make sure that we continue to meet the needs of our customers.

True to our entrepreneurial spirit, we continue to seek new solutions and products that meet the new demands of the sector. Therefore, we entered into an agreement with ALPHA DENT IMPLANTS GMBH ia German manufacturer for the exclusive production and manufacture of ZAHNTIUM made of premium high-strength materials of high quality and biocompatible.

as our motto goes "where quality meets service", our promise to our customers is to continue improvement and sourcing out the best quality products available, at reasonable cost combined with the best service that goes beyond the sale.



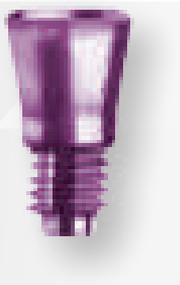
- **Platform Switching**
  - Switching Platform
  - Narrow connection of the implant prevents compression in cortical layer
- **Micro thread**
  - Micro threads for better contact with a cortical plate
- **Intermediate thread**
  - Bone thread on the corticospongoid level
- **Active thread**
  - Has multiple levels of height, which allows enlarging the surface of the implant
  - Allows achieving reliable initial stability in soft bone
- **Antirrotational sulcus**
- **3D Active surface**
  - Unique active and hydrophilic surface of a new generation
- **Apical part**
  - Curving in apical part prevents the damage of Sinus



## Conical Platforms with Hexagon



2.1 mm **TOP VIEW**  
NARROW PLATFORM



2.1 mm **SIDE VIEW**  
NARROW PLATFORM

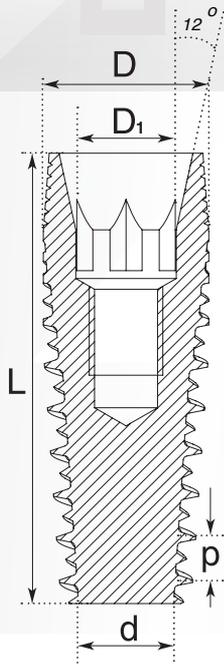
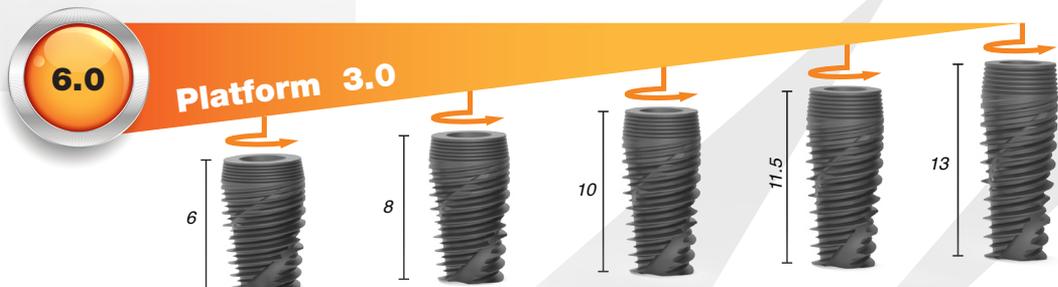
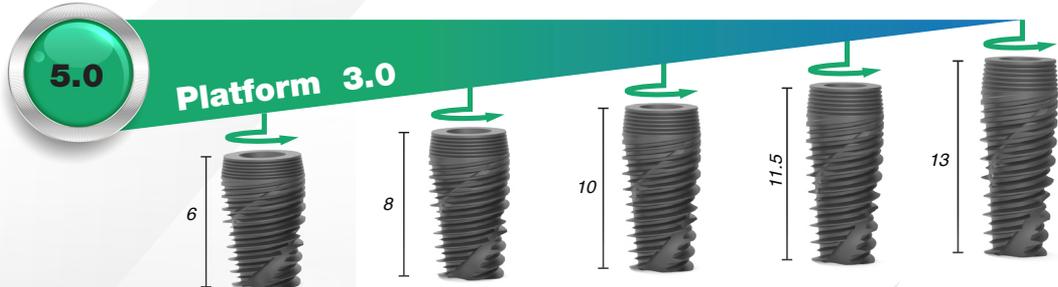
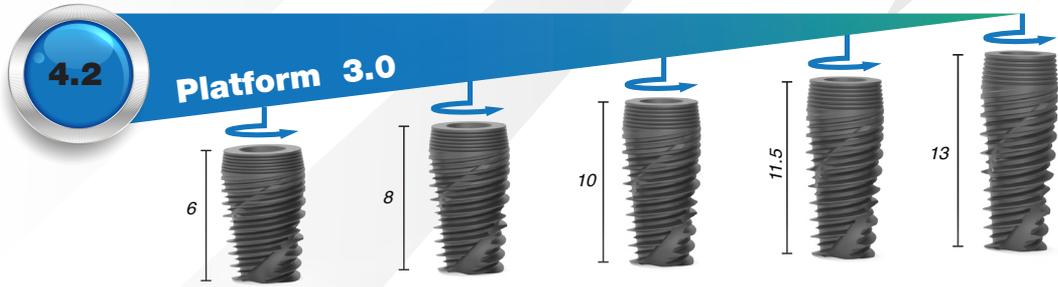
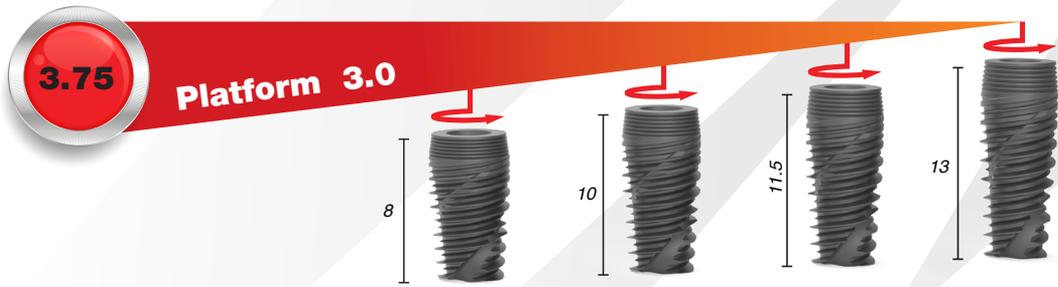
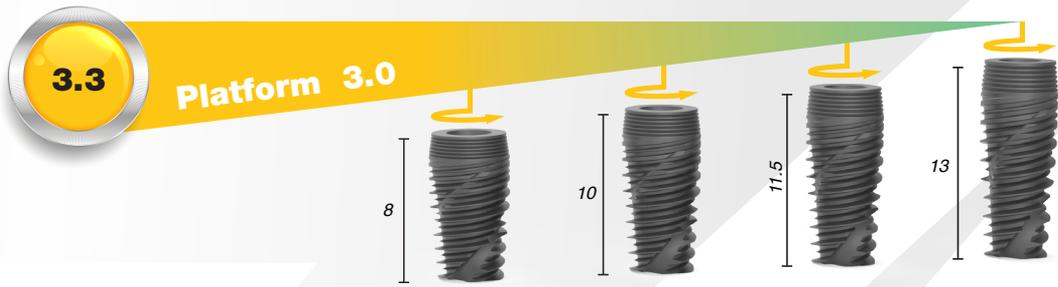
## Implant body

Marked tapered shape of the implant  
The shape of the implant matches completely the drill  
High initial stability



# Available Diameters and lengths

Diameters & lengths



**ZAHNTIUM**  
Conical Connection Implant

implant has a platform with an inner cone and a hexagon for positioning. This type of platform allows creating a conical connection with suprastructures. This connection is more stable and airtight. 3.25 mm diameter implants are installed in front and lateral parts (canine teeth, incisors, premolar teeth).

## Table of sequential use of conical diamond like coated (DLC) drills for implant Active Bio

Drill diameter, mm	1.5	2.0	2.8	3.0	3.45	3.9	4.7	6.0
rate, RPM	D1 800-1200 D2 800-1200 D3 800-1000 D4 800-1000	D1 800-1000 D2 800-1000 D3 700-900 D4 600-800	D1 600-800 D2 600-800 D3 500-600 D4 400-500	D1 500-700 D2 600-800 D3 500-600 D4 400-500	D1 500-700 D2 600-800 D3 500-600 D4 400-500	D1 400-600 D2 500-700 D3 500-600 D4 400-500	D1 400-600 D2 400-700 D3 500-600 D4 400-500	D1 400-600 D2 400-700 D3 500-600 D4 400-500

\* Cortical bone drill for bone type I and II

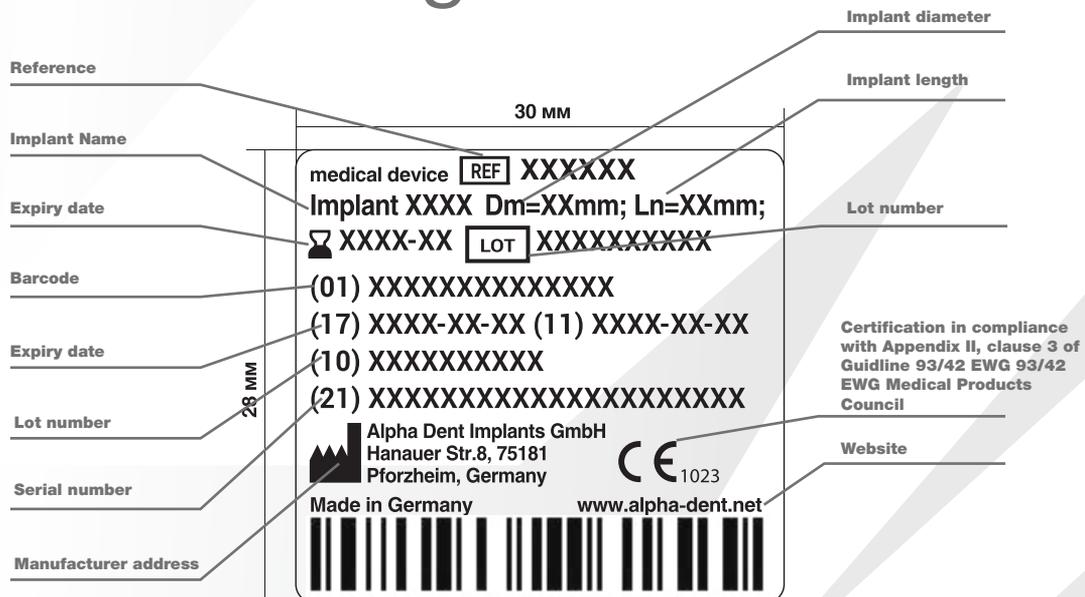
Diamond like coated drills in Alpha Dent Implants system are developed with the aim to form bone cavity for implants Active Bio because the drill shape recreates perfectly the shape of the implant without thread.

**ZAHNTIUM**  
Conical Connection Implant

# Zahntium Implant



## Conventional Signs



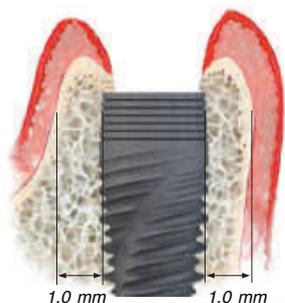
# Sterility

STERILE R



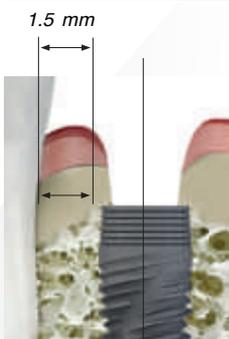
All production of ZAHNTIUM Implants is thoroughly sterilized. Double sterile packing ensures sterility maintenance. Due to a high technical level of production and the strictest control of sterility, ZAHNTIUM Implants meets the requirements of the highest quality standards, confirmed by appropriate certificates.

## Positioning of the implant in bone



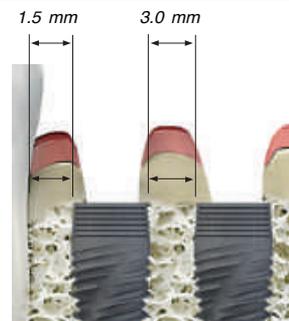
Bone depth on the side of cortical plate must be not less than 1 mm.

## Distance between the implant and tooth root



The distance between an implant and a tooth root must be minimum 1.5 mm, i.e. the distance from the implant site center to the next tooth must be about the  $\frac{1}{2}$  diameter of the implant's body + 1.5 mm.

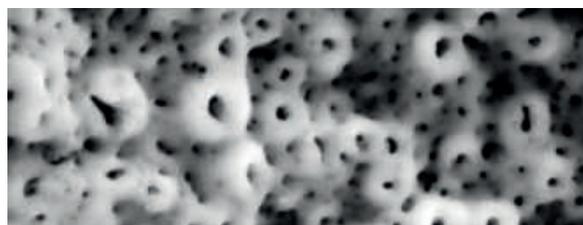
## Distance depends on diameter of implants installed



The distance between two implants must be a sum of  $\frac{1}{2}$  diameters of the body of the implants installed + 3 mm (distance between implants).

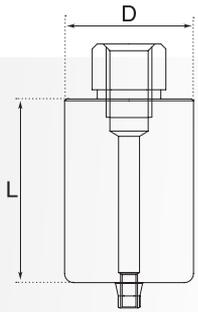
## 3D ACTIVE SURFACE

**3D Active** surface represents the latest generation of dental implant surface treatment technology. This surface is active and hydrophilic; it has distinct multi-layered microporous structure. The thickness of oxide layer of the implant surface reaches 10-12 microns. The entire thickness of the oxide layer is imbued with micropores that combine with each other and create a multi-layered surface. This way, the bone tissue grows deeper both in and between micro pores. Thereby, implant surface area is significantly increased and, thus the contact between bone tissue and implant surface is strengthened. Titanium oxide film is enriched with calcium hydroxyapatite, and the implant surface is contaminant-free. It has prominent hydrophilic characteristics (absorption).



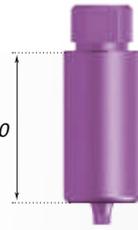
Researches show that **3D Active** surface stimulates active bone growth over the implant surface that results in mechanical stability. This surface property allows performing orthopedic rehabilitation at an earlier stage and significantly reduces the risk when the implant is installed under the one-stage procedure.

NARROW CONICAL PLATFORM 2.1 mm (3.0)



Ø 10

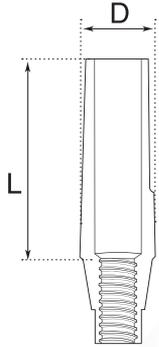
20



Code PMAIP3

Retaining screw

NARROW CONICAL PLATFORM 2.1 mm (3.0)

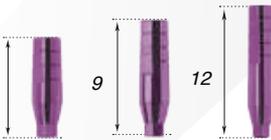


Ø 3.35

7

9

12



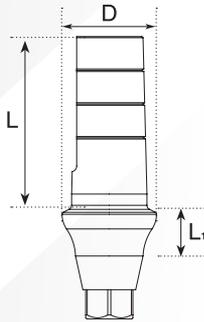
Code SAAIP3L7 SAAIP3L9 SAAIP3L12

Screw for the abutment

**Straight titanium antirotational conical abutment.** Abutment includes a screw. Available in three sizes: 7 mm, 9 mm, and 12 mm.

TITANIUM ANTIROTATIONAL WIDE ABUTMENT, STRAIGHT CONICAL

NARROW CONICAL PLATFORM 2.1 mm (3.0)



Ø 4.2

7

7

7

1.5

2.5

3.5



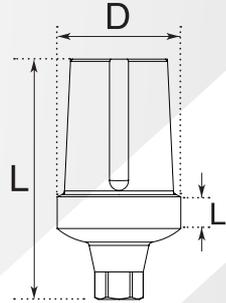
Code SAAIP3H1 SAAIP3H2 SAAIP3H3

Screw for the abutment

**Anatomical titanium shoulder abutment straight conical.** Available in three shoulder sizes: 1.5, 2.5, 3.5 mm.

\* - Indicator includes 0.5 mm of subcortical immersion.

NARROW CONICAL PLATFORM 2.1 mm (3.0)



Ø 6.0

11.35

14.35

2

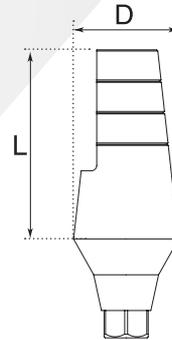
5



Code FFAAIP3H2 FFAAIP3H5

TITANIUM ANTIROTATIONAL WIDE ABUTMENT, CONICAL

NARROW CONICAL PLATFORM 2.1 mm (3.0)



Ø 5.0

9



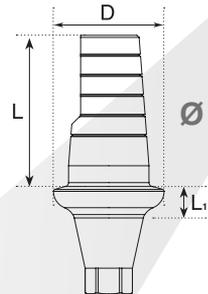
Code SAAIWP3L9

Screw for the abutment

**Wide antirotational titanium conical abutment with hexagon.** Available sizes 9 mm. Mainly used in the area of posterior teeth.

ANATOMICAL TITANIUM SHOULDER WIDE ABUTMENT, STRAIGHT CONICAL

NARROW CONICAL PLATFORM 2.1 mm (3.0)



Ø 5.5

7.5

7.5

7.5

1.5

2.5

3.5



Code SAAIWP3H1 SAAIWP3H2 SAAIWP3H3

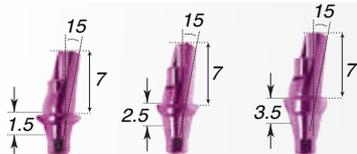
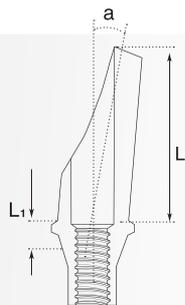
Screw for the abutment

**Anatomical titanium shoulder wide abutment straight conical.** Available in three shoulder sizes: 1.5, 2.5, 3.5 mm.

\* - Indicator includes 0.5 mm of subcortical immersion.

**ANATOMICAL ANGULAR TITANIUM ABUTMENT 15°, CONICAL**

NARROW CONICAL PLATFORM 2.1 mm (3.0)



Code AAAIP3D15H1 AAAIP3D15H2 AAAIP3D15H3

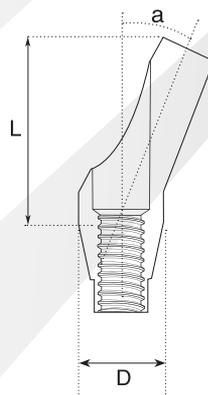
 Screw for the abutment

Angular anatomical titanium conical abutment 15° with shoulder 1.5-3.5 mm. It is used for aesthetic tasks solving in vestibular area, and replicating the shape of gingival line.

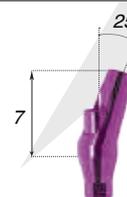
\* - Indicator includes 0.5 mm of subcortical immersion.

**ANTIROTATIONAL TITANIUM ANGULAR ABUTMENT 25°, CONICAL**

NARROW CONICAL PLATFORM 2.1 mm (3.0)



Ø 3,35

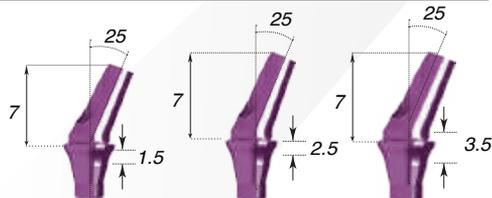
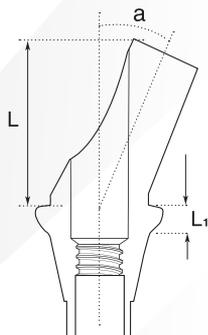


Code AAAIP3D25

 Retaining screw

**ANATOMICAL ANGULAR TITANIUM ABUTMENT 25°, CONICAL WITH SHOULDER 2 mm**

NARROW CONICAL PLATFORM 2.1 mm (3.0)



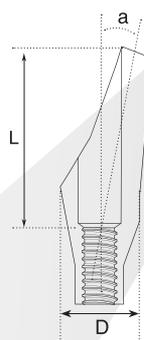
Code AAAIP3D25H1 AAAIP3D25H2 AAAIP3D25H3

 Retaining screw

\* - Indicator includes 0.5 mm of subcortical immersion.

**ANGULAR ANTIROTATIONAL TITANIUM ABUTMENT 15°, CONICAL**

NARROW CONICAL PLATFORM 2.1 mm (3.0)



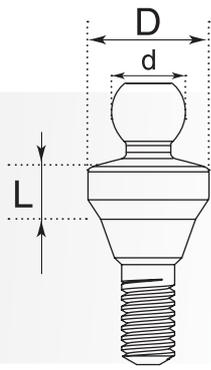
Ø 3.35



Code AAAIP3D15

 Screw for the abutment

Angular antirotational titanium conical abutment 15° without a shoulder. It is used in cases, when the implant is installed at an angle. This type of the abutment allows creating the aesthetically correct construction with less effort for technician and orthopedist.



**BALL ATTACHMENT, CONICAL**

NARROW CONICAL PLATFORM 2.1 mm (3.0)

**D Ø 4.2**

**d Ø 2.5**



Code	BAAI P3 H2	BAAI P3 H3	BAAI P3 H4	BAAI P3 H5
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A structure with conical ball attachment is used for fixation of removable denture. A cap made of stainless steel can be included, as well as an intermediate silicone cap of three different degrees of hardness: soft, standard, and strong. Ball attachment set does not include caps. It can be purchased separately.



MC

Metal cap



SCS

Soft silicone cap



SCT

Hard silicone cap



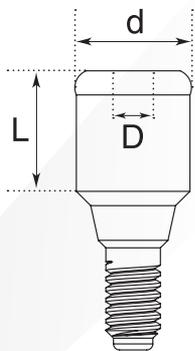
SCN

Standard silicone cap



PDB

Plastic disc



**LOCATORS, CONICAL**

NARROW CONICAL PLATFORM 2.1 mm (3.0)

**D Ø 1.25**

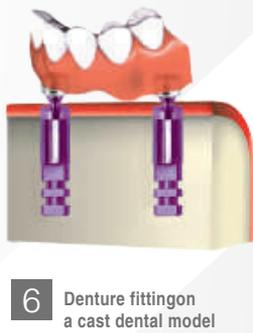
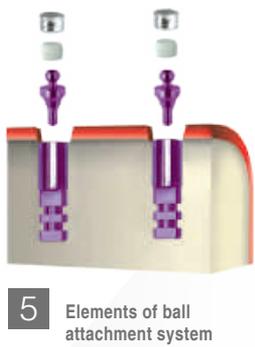
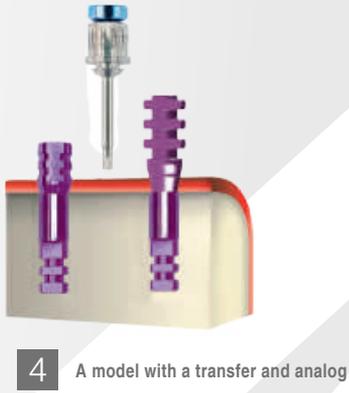
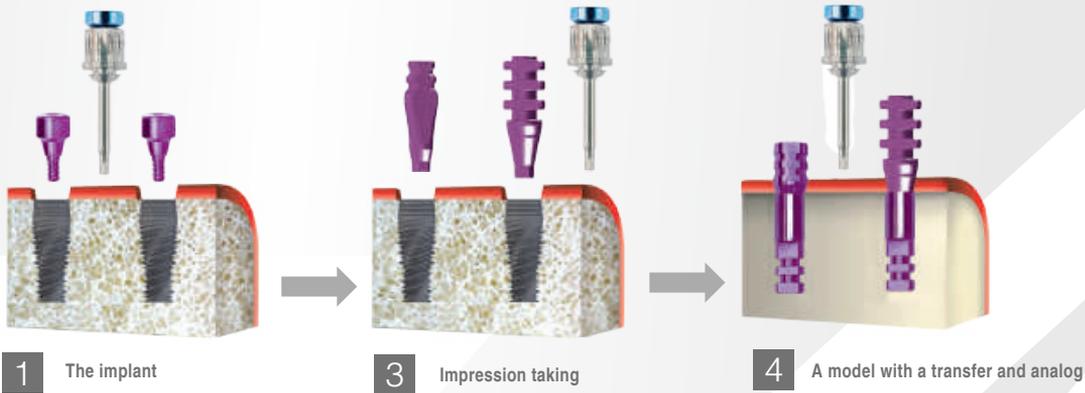
**d Ø 3.9**



Code	LAIP3H2	LAIP3H3	LAIP3H4	LAIP3H5	LAIP3H6
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# Clinical and laboratory surgery

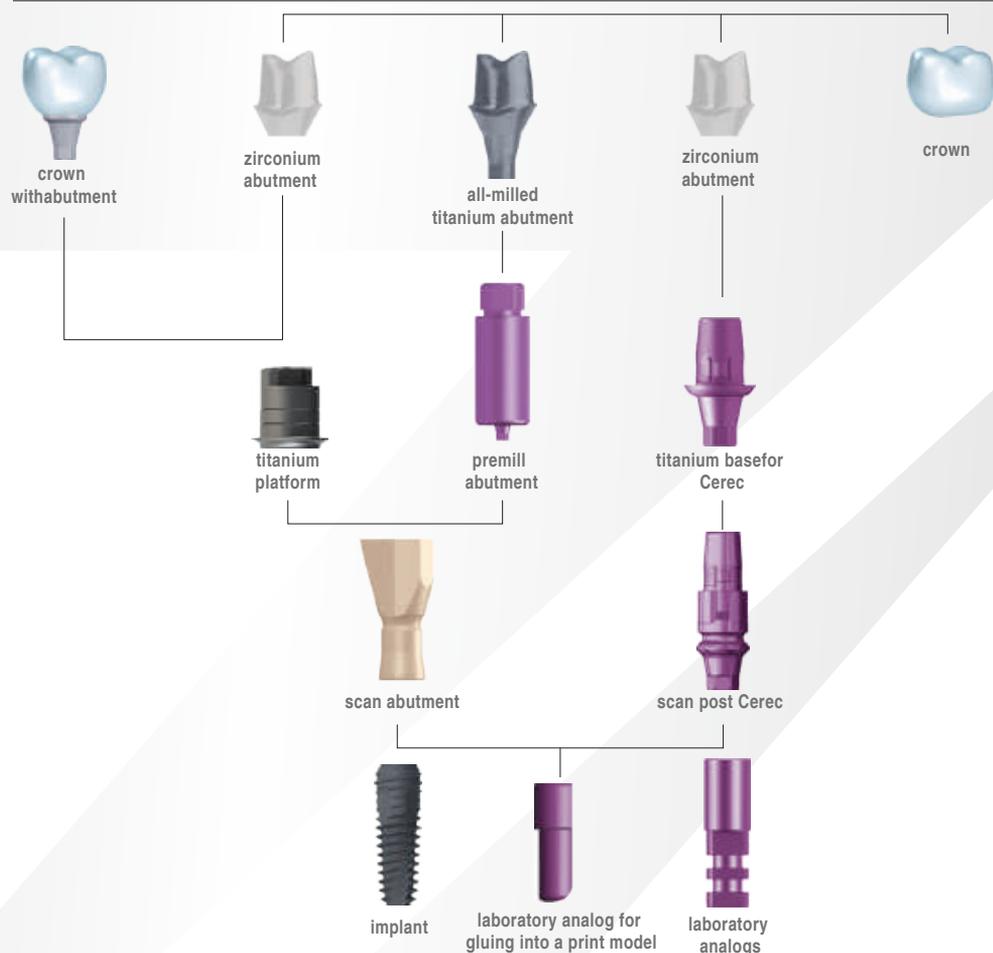
Removable dental rehabilitation on implants



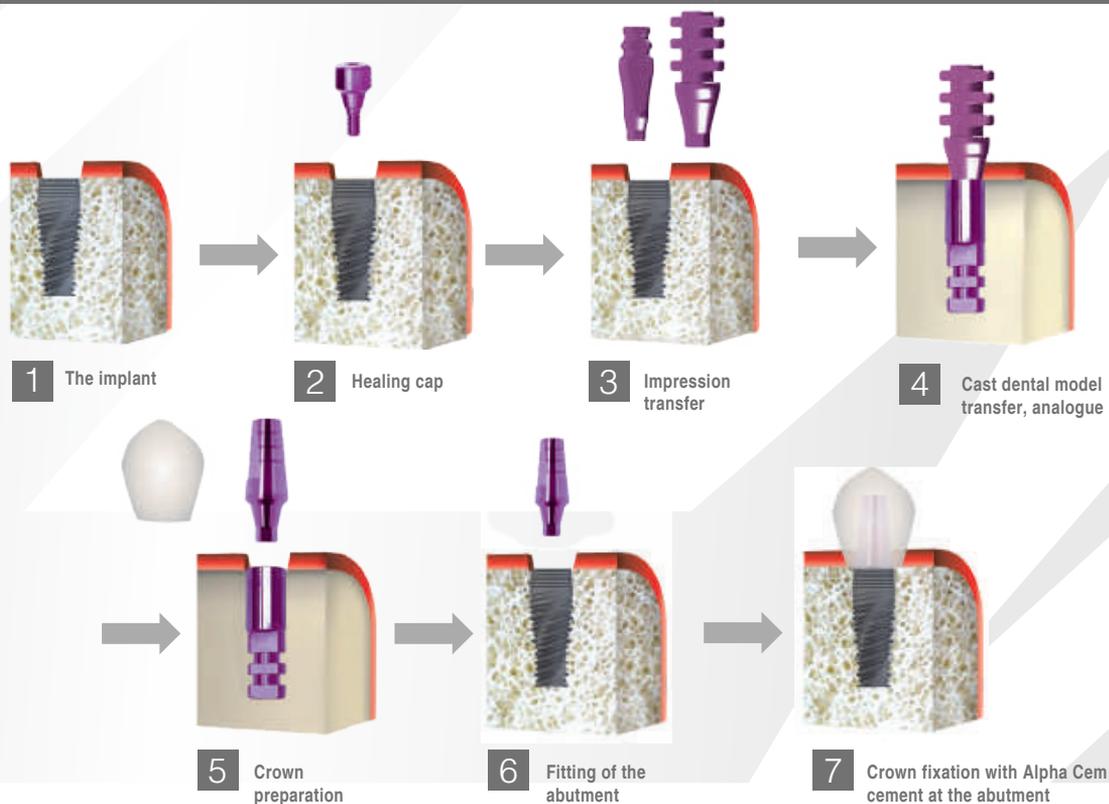
## Clinical surgeries



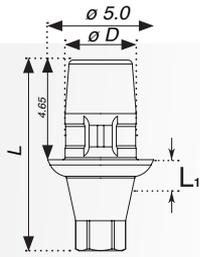
# Digital protocol for creating an orthopedic structure



# Orthopedical protocol. Cement-retained fixation



**TITANIUM BASE ZAHNTIUM FOR CEREC SIRONA**  
**NARROW CONICAL PLATFORM 2.1 mm (3.0)**

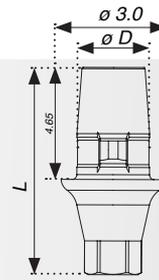


**Ø 3,4**

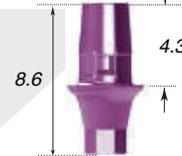


Code **TBCEAI**  
 Retaining screw

**TITANIUM BASE ZAHNTIUM FOR CEREC SIRONA**  
**NARROW CONICAL PLATFORM 2.1 mm (3.0)**

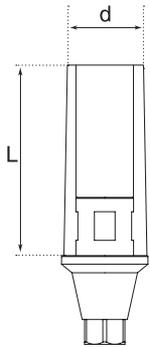


**Ø 1.5**



Code **TBCEAI-SC**  
 Retaining screw

**TITANIUM-BASED PLASTIC BURNOUT ABUTMENT, CONICAL**  
**NARROW CONICAL PLATFORM 2.1 mm (3.0)**

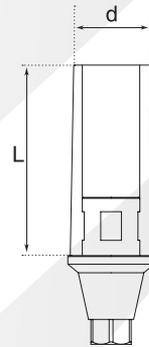


**Ø 4.5**



Code **PTAAI3L9**  
 Screw for the abutment

**PLASTIC BURNOUT ABUTMENT, CONICAL**  
**NARROW CONICAL PLATFORM 2.1 mm (3.0)**



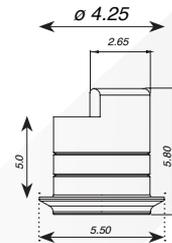
**Ø 4.2**



Code **PAAIP3NH**  
 Screw for the abutment

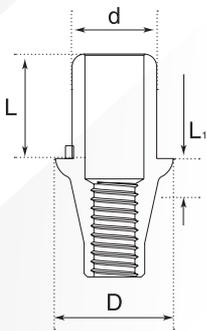
Titanium-based plastic conical abutment is used with single implants.

**TITANIUM PLATFORM FOR CAD/CAM MU**

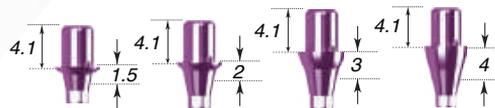


Code **TBCMUI**

**TITANIUM PLATFORM FOR CAD/CAM, CONICAL**  
**NARROW CONICAL PLATFORM 2.1 mm (3.0)**



**D Ø 4.6**

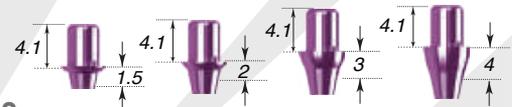


**d Ø 3.3**

Code **BAAI P3 H1** **BAAI P3 H2** **BAAI P3 H3** **BAAI P3 H4**

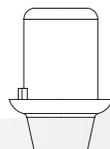
**NARROW CONICAL PLATFORM 2.1 mm (3.0)**

**D Ø 4.6**



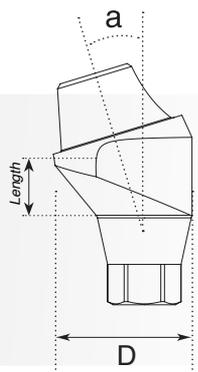
**d Ø 3.3**

Code **BAAI P3 H1** **BAAI P3 H2** **BAAI P3 H3** **BAAI P3 H4**



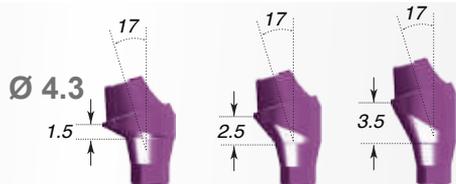
NON HEX

\* - Indicator includes 0.5 mm of subcortical immersion.



**ONE-PIECE ANGULAR MULTI-UNIT 17°/30° CONICAL**

**NARROW CONICAL PLATFORM 2.1 mm (3.0)**

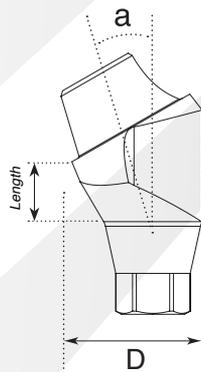


Code MUAaip317DH1 MUAaip317DH2 MUAaip317DH3

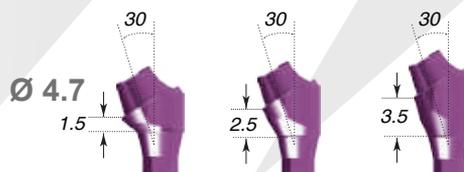
 Screw for the abutment

\* - Indicator includes 0.5 mm of subcortical immersion.

Multi-unit system is used for a prosthesis with screw retention. One-piece angular multi-unit allows rehabilitation at non-parallel implants by correcting the angle. Angular multi-unit is available in options 17° and 30° options.



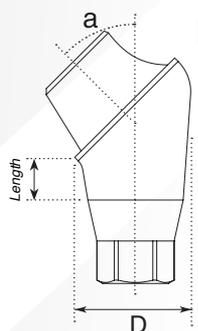
**NARROW CONICAL PLATFORM 2.1 mm (3.0)**



Code MUAaip330DH1 MUAaip330DH1 MUAaip330DH1

 Screw for the abutment

\* - Indicator includes 0.5 mm of subcortical immersion.



**TITANIUM BASIS FOR MULTI-UNITS 45 DEG**

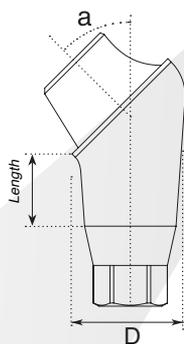
**NARROW CONICAL PLATFORM 2.1 mm (3.0)**



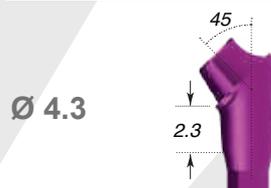
Code TBMU45DH1

 Screw for the abutment

One-piece angular multi-unit 45° conical. Multi-unit system is used for a prosthesis with screw retention. One-piece angular multi-unit allows rehabilitation at non-parallel implants by correcting the angle. The new angular multi-unit is available in 45° option.

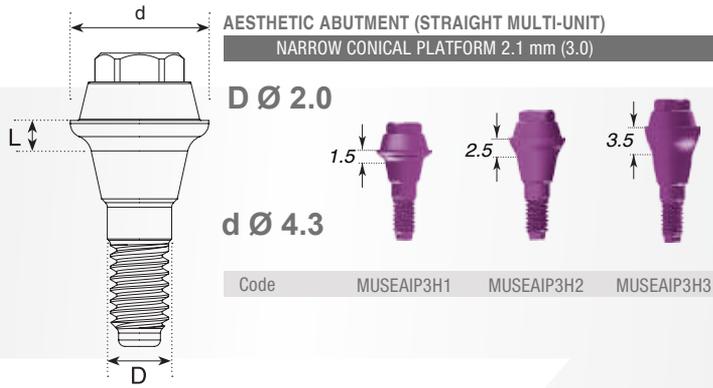


**NARROW CONICAL PLATFORM 2.1 mm (3.0)**



Code TBMU45DH2

 Screw for the abutment



\* - Indicator includes 0.5 mm of subcortical immersion.  
\* - For screwing the abutment, please, use adapter for wrench WFI-0S (for Integral implant) page 64.

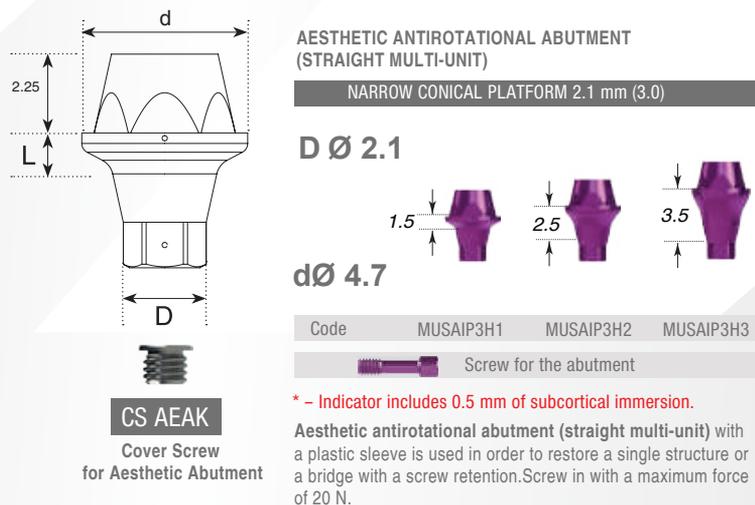
Aesthetic abutment (straight multi-unit) with a plastic sleeve is used in order to restore a single structure or a bridge with a screw retention. Screw in with a maximum force of 40 N.

**SLEEVES FOR STRAIGHT AND ANGULAR ROTATIONAL MULTI-UNIT 17°/30° AND INTEGRAL IMPLANT**



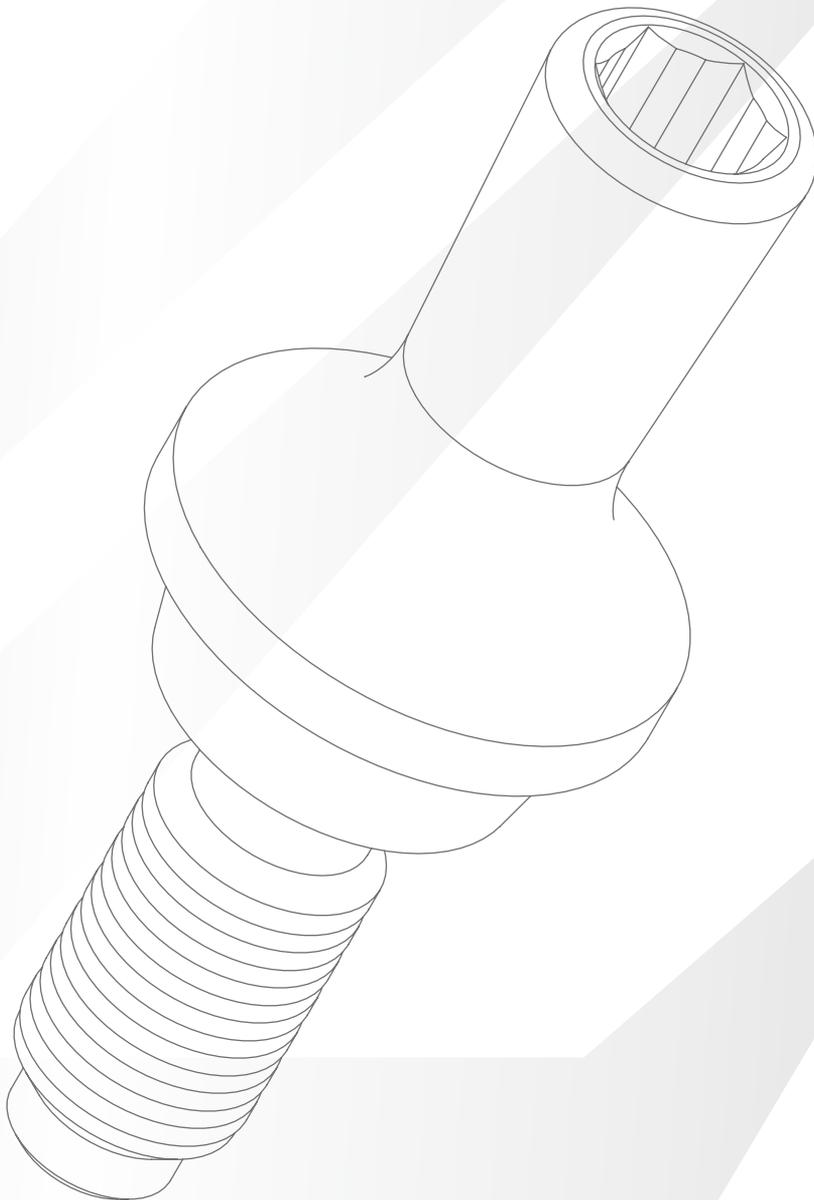
Cobalt-chromium basis for burn out abutment of multi-unit system

**SLEEVES FOR AESTHETIC ABUTMENT (STRAIGHT MULTI-UNIT)**



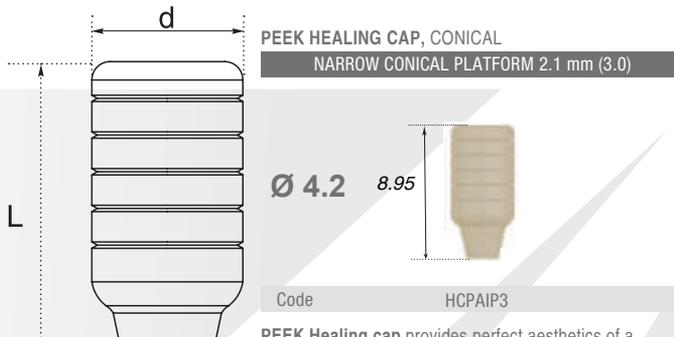
# HEALING CAPS FOR IMPLANTS

ACTIVE BIO  
ACTIVE BIO PLUS  
SUPERIOR ACTIVE  
INTEGRAL  
ACTIVE ZAHNTIUM  
CLASSIC ZAHNTIUM

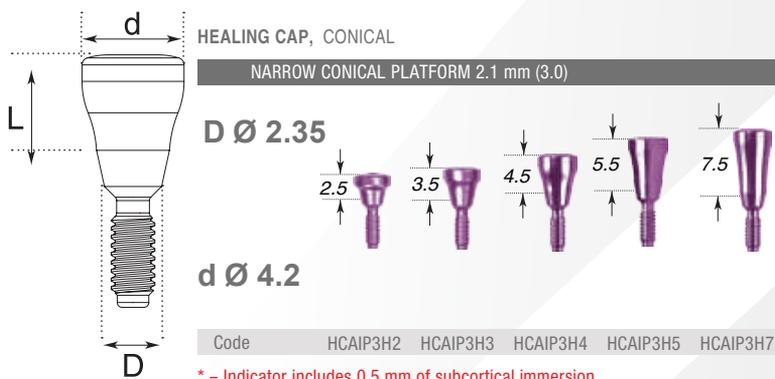




Narrow ZAHNTIUM Healing Cap provides perfect gingival margin. It fits for any following options of dental prosthesis.



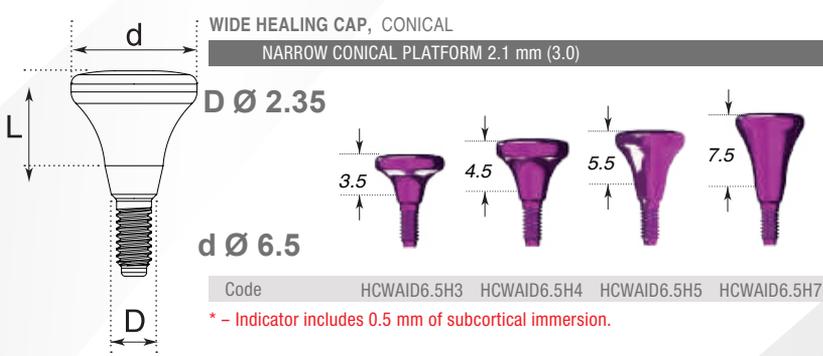
PEEK Healing cap provides perfect aesthetics of a gingival margin. It is made of high-quality biologically compatible thermoplastic, which is used for production of medical instruments. PEEK is a perfect material for using in medicine, particularly in dentistry.



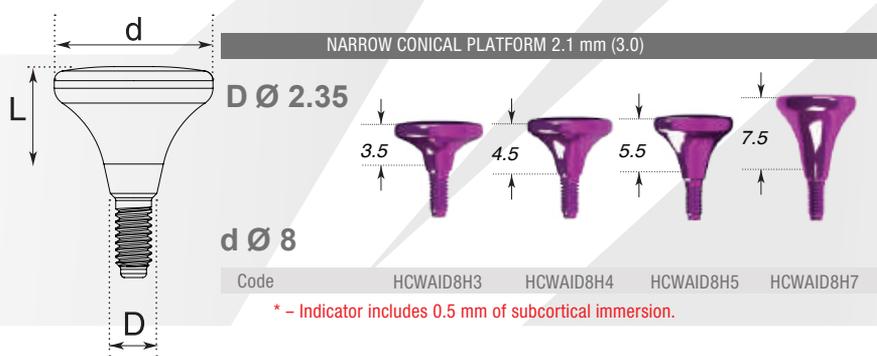
\* - Indicator includes 0.5 mm of subcortical immersion.  
Titanium conical healing cap is installed on the implant and is intended to form gingival line and gingival papilla. It is available in following sizes: 2, 3, 4, 5, 7 mm. The size is defined according to the height of gingiva.



\* - Indicator includes 0.5 mm of subcortical immersion.



\* - Indicator includes 0.5 mm of subcortical immersion.



\* - Indicator includes 0.5 mm of subcortical immersion.

# TRANSFERS AND ANALOGS FOR IMPLANTS

SCAN-ABUTMENTS

ACTIVE BIO

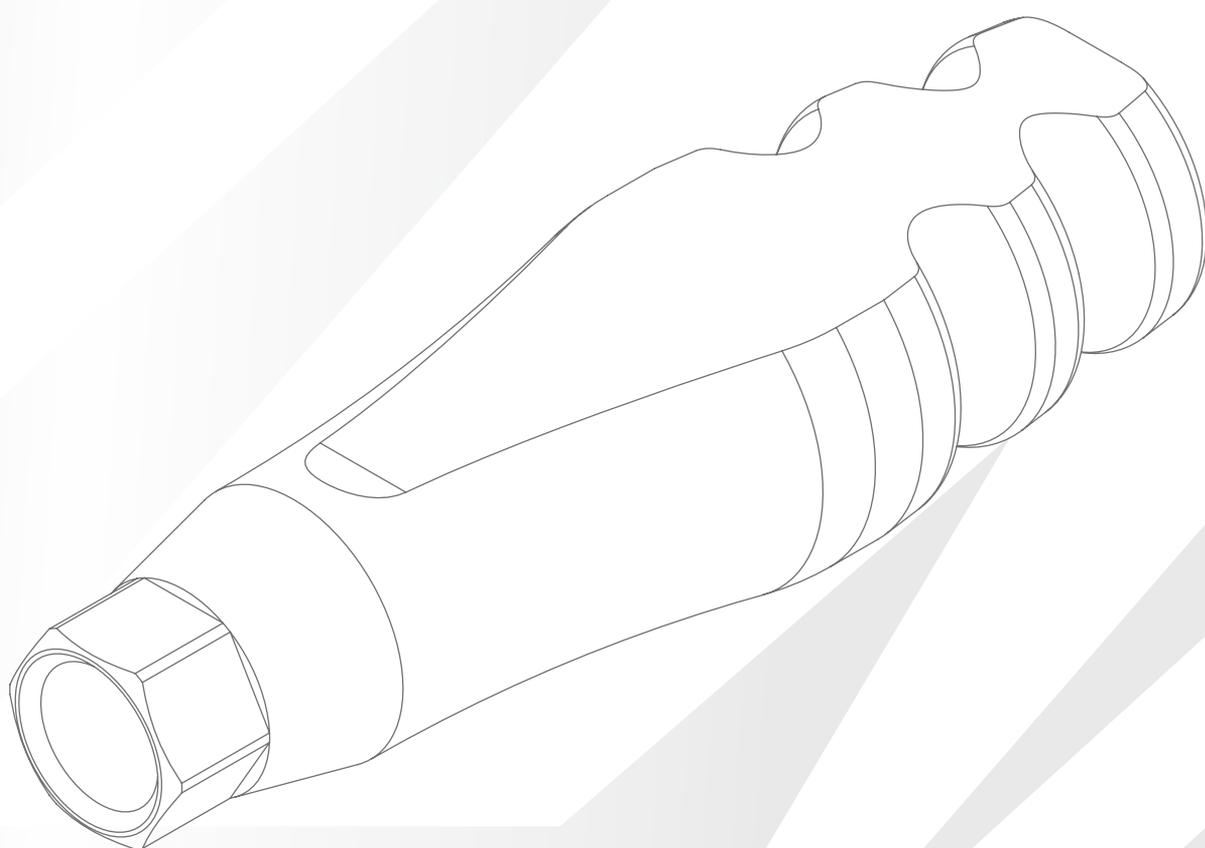
ACTIVE BIO PLUS

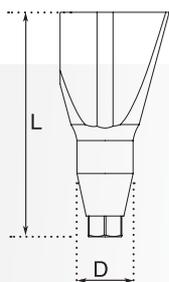
SUPERIOR ACTIVE

INTEGRAL

ACTIVE ZAHNTIUM

CLASSIC ZAHNTIUM





**SCAN-ABUTMENT, CONICAL**  
**NARROW CONICAL PLATFORM 2.1 mm (3.0)**

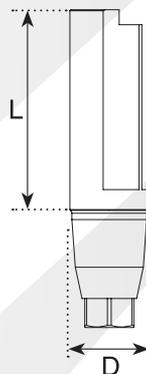
Ø 3,5

14



Code SBH9

Retaining screw



**SCAN-ABUTMENT NARROW**  
**NARROW CONICAL PLATFORM 2.1 mm (3.0)**

Ø 3,5

10.5



Code SBNH9-TI

Retaining screw

**DIGITAL ANALOG, CONICAL**

**NARROW CONICAL PLATFORM 2.1 mm (3.0)**

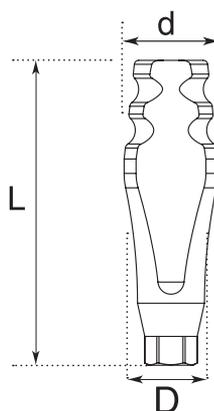


DAAIP3

**SCAN ABUTMENT FOR MU**



SCMU



**CLOSED TRAY TRANSFER, CONICAL**  
**NARROW CONICAL PLATFORM 2.1 mm (3.0)**

D Ø 3

13.75

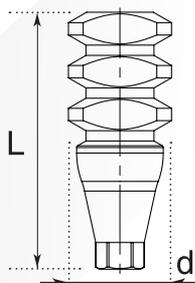
d Ø 4.2



Code TCAIP3L9

Retaining

The length of conical closed tray transfer is 13.75 mm. It is used in closed tray impression coping.



**OPEN TRAY TRANSFER, CONICAL**  
**NARROW CONICAL PLATFORM 2.1 mm (3.0)**

Ø 5

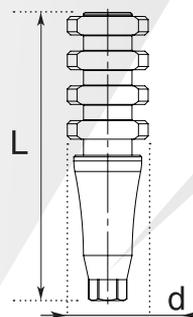
12.5

**NEW**



Code TOAIP3L13

Retaining



**NARROW CONICAL PLATFORM 2.1 mm (3.0)**

Ø 5

17.85

**NEW**



Code TOAIP3L15

Retaining

**IMPLANT ANALOG, CONICAL**

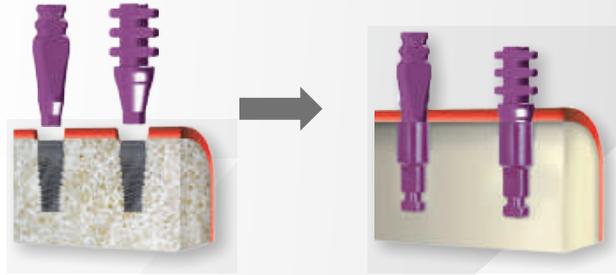
It is used as an **implant analog** in the dental laboratory. It allows to prepare laboratory models.

**IMPLANT ANALOG, CONICAL**

**NARROW CONICAL PLATFORM 2.1 mm (3.0)**

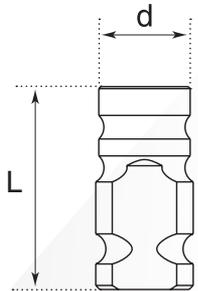


**AAIP3**

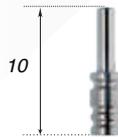


**OPEN TRAY TRANSFER FOR AESTHETIC ANTIROTATIONAL ABUTMENT (STRAIGHT MULTI-UNIT)**

**NARROW CONICAL PLATFORM 2.1 mm (3.0)**



**Ø 4.8**



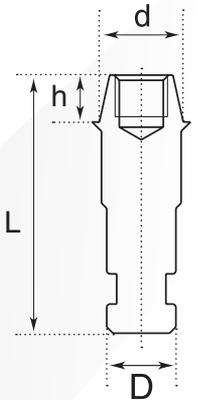
10

Code **TOAAI**

Open tray transfer for aesthetic antirotational abutment (straight multi-unit) with a size of 10 mm. It is used in open tray impression coping.

**ANALOG OF AN IMPLANT WITH AN AESTHETIC ANTIROTATION ABUTMENT (STRAIGHT MULTI-UNIT)**

**NARROW CONICAL PLATFORM 2.1 mm (3.0)**



**D Ø 3.3**



12.4

**d Ø 4.0**

Code **AMUAAI**

It serves as an analog of an implant with an aesthetic antirotation abutment (straight multi-unit) in the dental technical lab. Allows preparing laboratory models.

# Surgical Kit



## DRILL

Diamond like coated drills

Cylindrical



AID15

AID20

AID28

Tapered finishing



AID30

AID345

AID39

AID47

AID57

## COUNTERSINKS



AIC32

AIC375

AIC42

AIC5

AIC6

Drill extension



ZTD-E

RR

Torque ratchet



ZRR

## STOPPERS

for 2.8 drills and 2.0

6 mm | 8 mm | 10 mm | 11.5 mm | 13 mm



for TCA 3.0, 3.45, 3.9, 4.7 drills

6 mm | 8 mm | 10 mm | 11.5 mm | 13 mm



## IMPLANT DRIVERS



ZHPIDK 3/18

Implant driver  
adapter



ZDA

Universal wrench for  
abutment screw



ZHDS9

ZHDS18

Direction indicator –  
depth gauge



ZPP

ZPP 2.8

World wide Distributor

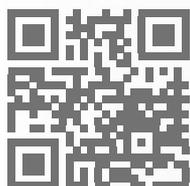


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