eco plant

Implant System

BIONIKA

K19-MD07-004

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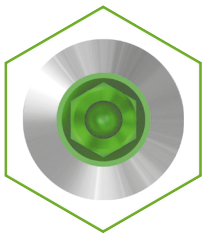
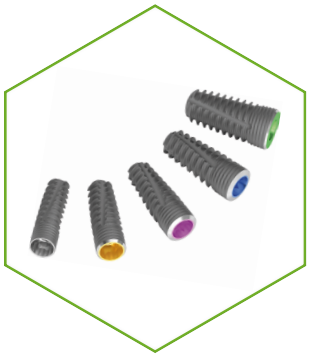
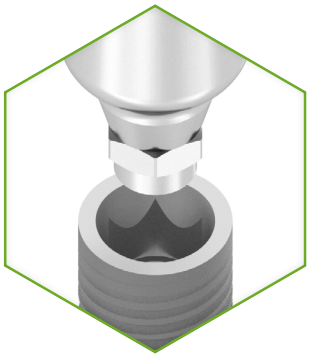






About the company

BIONIKA Medline Orvostechnikai Kft. Is a member of a Hungarian-Swedish group of companies. It was founded in 1989. The owners of the company are Hungarian and Swedish citizens.

We have more than 30-year-experience in the field of medical instruments and implant development, production and trade. BIONIKA as a researcher, developer, manufacturer and distributor is present in dentistry, oral surgery, traumatology, orthopedics and rehabilitation in the medical-professional areas.

According to our objective and perception, we attach great importance to the word „BIONIKA", which marks a scientific thinking on the boundaries of biology, technology and electronics that combines these three areas in our researching and developing work.

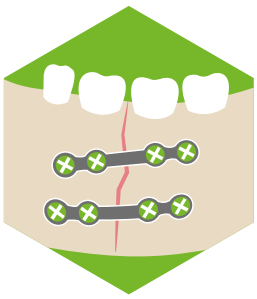
Clinical and technological experiences: The continuous process, combination and utilization of clinical and technological experiences in development contributes to our success, up to the production base. Here you will find the best solutions and constructions suited to customer needs, which are under continuous development.

Development: The owners of BIONIKA put great emphasis on continuous product and technological research and development. Our products are developed in close collaboration with doctors and engineers, enabling us to ensure the world-class quality and practical utilization.

Quality: The quality of the products expected by our customers is guaranteed by design, manufacturing and quality management according to the harmonized European Union laws. The BIONIKA Medline Kft. is operated according to the EN ISO 9001 and the EN ISO 13485 quality management system. Our products are provided with CE marks.

Guarantee: After inserting the implant - the risk of the ossification process is assumed by BIONIKA, independently of cause and effect relationship – exchange guarantee is ensured within one year after the purchase. Otherwise, we provide a long-term, 10-year guarantee for our products.

DENTISTRY



ORAL SURGERY

TRAUMATOLOGY

ORTHOPEDICS

Technology

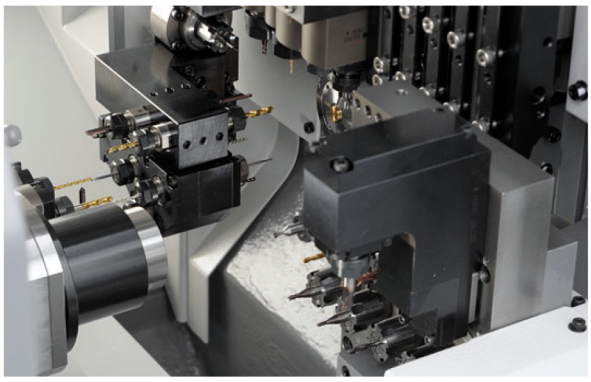
BIONIKA Medline Kft. more than 30 years of experience in the development and production of dental implants, dental insertion instruments and stomatological parts. During this time more than 40 types of implant systems have been developed and are being manufactured to date, including insertion instruments. Some of these parts have been developed for their own marketing in accordance with their own market needs.

Other systems – in cooperation with independent medical groups – are made to order, mainly developed and manufactured for foreign markets. (These are sold by the customers under their own brand name).
Our partners can choose from approximately 20.000 different parts of different sizes and shapes. Our manufacturing technology is flexible, we can quickly move from one component to another, and we are able to fulfill thousands of orders with a short turnaround time. This area requires high precision production (in some cases it is necessary to hold 2-5 mm tolerances).

All the technological operations we carry out are from manufacturing, surface design, packaging. Our products are CE marked and the production process is under strict quality management system. Biocompatible materials are the most important raw materials for dental, oral surgery, traumatology and orthopedic medical implants.Because relatively small series of customized solutions are required, they require fast programmable CNC machining technology.

Accordingly, we have molded CNC machining centers and Swiss type longitudinal machining centers. For machining more complex surfaces, an industrial 5-axis CNC center is used with CAD-CAM system support. Our machines are equipped not only with fixed , but also with propelled cutting instrument units, with which we can perform more complex spatial geometrical machining. As a complementary technology, we have sandblasting, polishing titanium coloring and sterilization equipments. The production of custom prosthetic components for dental applications is supported by the BIONIKA Milling center.

Our Partners



Quality management and guarantee

The quality of the products is guaranteed by design, manufacturing and quality management according ot he harmonized European Union laws. The BIONIKA Medline Kft. is operated according ot he EN ISO 9001 and the EN ISO 13485 quality management system. Our products are provided with CE marks, which was ensured by EMKI and QT-CERT.

We provide a long-term, 10-year guarantee for our products. After inserting the implant, reducing the medical risk of the ossification process, independently of cause and effect relationship – exchange guarantee is ensured within one year after the purchase for the dropped and fallen out implants.

AAA®
Highest creditworthiness

BIONIKA Medline Kft. has always paid close attention to quality and reliability during its more than 30 years of existence. The Bisnode certificate is proof of our reliability and stability. BIONIKA received „Triple A" Bisnode qualification from 2016 to 2022.

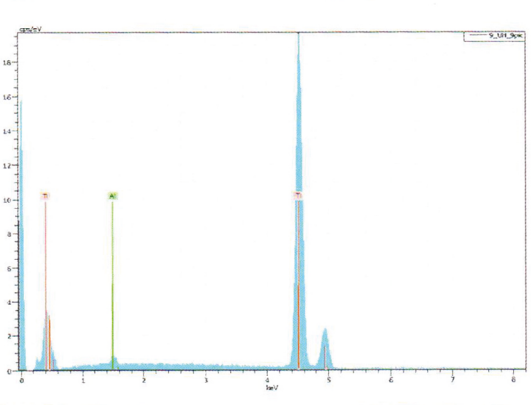
At the Hungarian market only 0.63% of the companies have the AAA Bisnode rating. The financial risk of establishing business relationship with these business associations is extremely low - source: dnb.hu

Superclean implant surface

BIONIKA demonstrates the best qualities of Grade 4 titanium used in implant manufacturing for dental implantology according to the ISO 5832-2 ASTM F67 standard. Due to its adequate purity the biocompatibility is exceptionally good as well as it is provided with exceptional solidity.

Initially, we and other implant manufacturers preferred the higher purity titanium but due to solidity reasons nowadays almost every implant is made of Grade 4 or other alloyed titanium in the world.
In all cases of implant abutments, alloyed, high strength Grade 5 titanium is applied according to the ISO 5832-4 ASTM F136 standard. The titanium applied according to the standard is provided with exceptional biocompatibility, it is almost risk-free.

Almost all professionals see that the implantation success is best determined by the implantologist's practice, as well as surgical conditions, carefully maintained hygiene, and patient abilities.



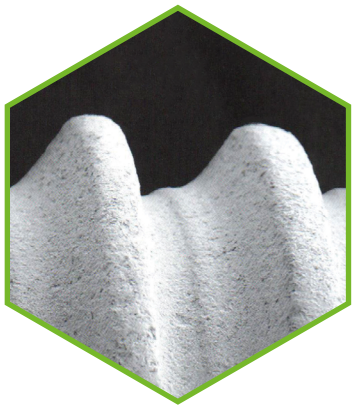
*Energy dispersive X-ray spectometric elemental analysis of Bionika implants**

The main steps of our BioTiS surface finish technology:

- Chemical, mechanical surface cleaning and surface dewing
- Special ultrasonic cleaning, surface cleaning and sterilization
- Transformation of surface structure by acidification process
- Multi-stage dehumidification, cleaning
- Electrochemical surface modification
- sterilization
- Surface finish in physiological solution

These technological steps are always carried out under sterile conditions.

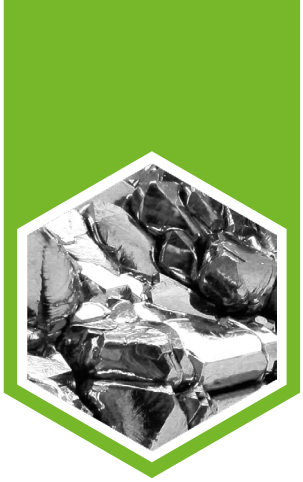
The final packaging of the implants is four-layered. The packaging is carried out in a sterile cabin. Final sterility is assured by an accredited 20 Rad gamma sterilization procedure.



Bionika implant electron microscope i*

*Source: FOGSurgical SZEMLE, year 106. No. 4.. 2013. 135-143

Applied raw materials



Titanium grade 4

Chemical composition

Elements	Threshold limit of constituents(%)
0	0,4 max.
Fe	0,3 max.
C	0,1 max.
N	0,05 max.
H	0,0125 max.
Ti	>99% / balance

Mechanical properties

solidity	680 MPa min.
dilation	10 %

According to the **ISO 5832-2** standard.

Titanium Grade 5

Chemical composition

Elements	Threshold limit of constituents(%)
Al	5,5-6,75 max.
V	3,5-4,5 max.
Fe	0,3 max.
O	0,2 max.
C	0,08 max.
N	0,05 max.
H	0,015 max.
Ti	balance

Mechanical properties

solidity	860 MPa min.
dilation	10 %

According to the **ISO 5832-3** standard.

CoCr

Chemical composition

Elements	Threshold limit of constituents(%)
C	0,1 max.
Si	1,0 max.
Mn	1,0 max.
P	0,005 max.
S	0,005 max.
Cr	30, 0 max.
Mo	7,0 max.
Ni	1,0 max.
Co	-
N	0,2250 max.

Mechanical properties

solidity	1240,00 MPa min.
elongation limit	900,00 min.
elongation at break	18,00 min.
fracture contraction	23,00 min.

According to the **ISO 5832-4** standard.

Plastics

POM (polyoxymethylene) : Thermoplastic synthetic plastic, Excellent properties eg: high hardness, low wear, good flexibility, little absorbing ability. Density: 1.41 g / cm3. elongation at break: min. 30% Current Voltage: min. 65 Mpa. Its color is white.

PEEK (polyether ether ketone) :High heat-resistant plastic, suitable for all conventional sterilization methods (steam, dry heat, ethylene oxide, gamma radiation). Density: 1.30 1.41 g / cm3 Tensile strength: 115 Mpa. elongation at break: min. 17% Its colour is natural brownish gray.

eco-plant packaging

10-piece collection box

vial in sterile foil

removing the foil

sterile vial

removing the locking plug (1)

removing the locking plug (2)

the implant and the multifunctional head in the locking plug

using the implant key driver

Collection box

Depending on the order quantities, collection boxes with 5 and 10 pieces are applied.

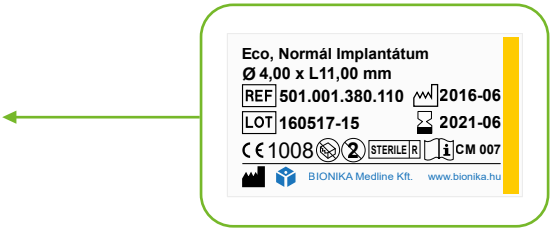
eco-plant packaging

According to our endeavor, the raw materials used in packaging are almost 100% naturally occurring, environmentally-friendly, natural materials.

aluminum · titanium · glass · caoutchouc · paper

Vial

The first layer of the packaging is a transparent vial, which ensures the total, null colony-forming unit sterility. The locking plug of the vial holds the implant, the multifunctional implant head and the locking screw.



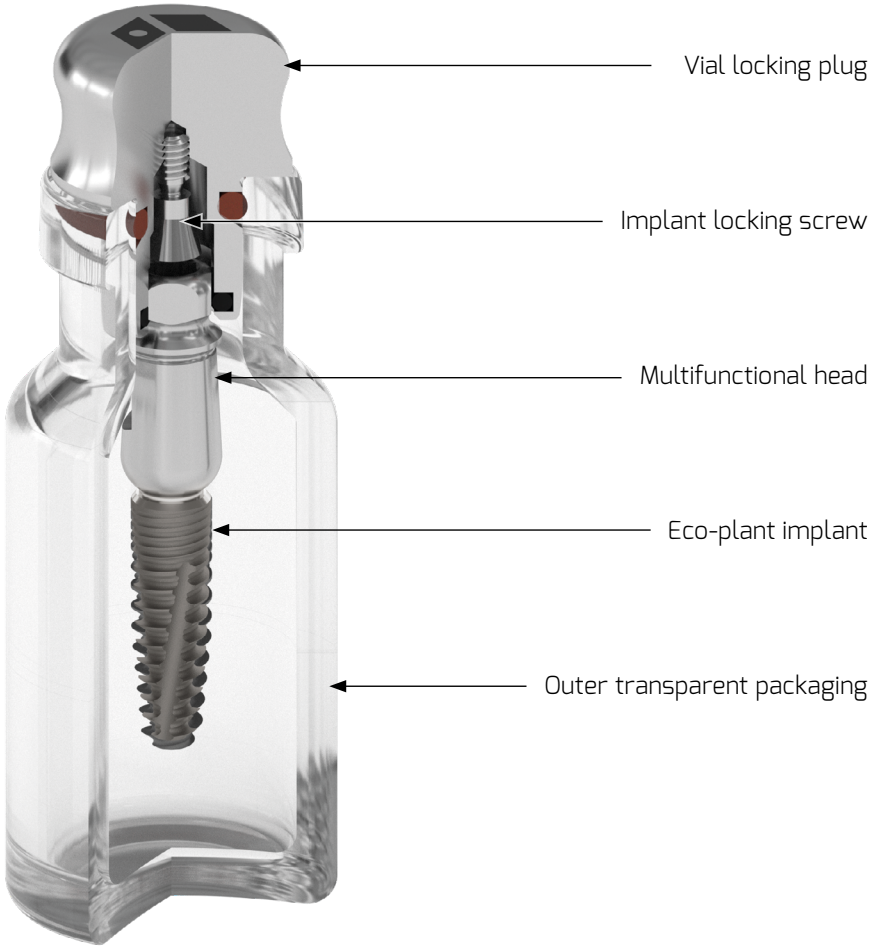
Paper box

The outer layer of the packaging is a paper box with a high density, which is for the physical safety. Every paper box is provided with colour-coded labels according to the different platform- diameters. The colour of the packaging is adjusted to this method.

The sectional image of the **eco-plant** packaging and its accessories

The first layer of the packaging is a transparent vial. The implant and the multifunctional head are held by the vial locking plug and with this they can be removed from the vial. The implant locking screw can be found in the vial locking plug as well.

The **multifunctional head** doesn't only hold the implant in the packaging but also helps its inserting into the jaw bone, is suitable for closed spoon sampling and after this it can be drilled as a head for the glued toothwork.



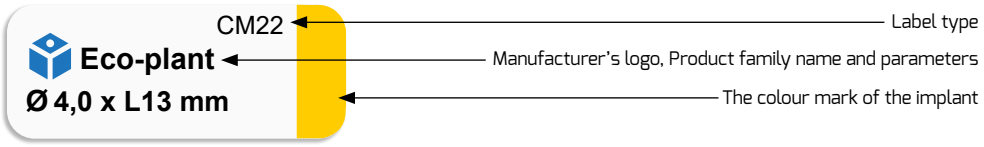
eco-plant product labels and their notation

Differential platform diameters by colour:

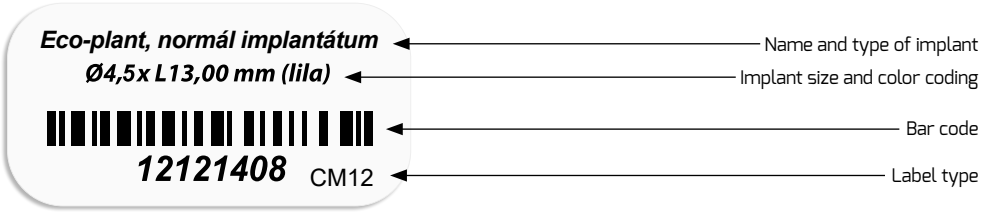
Ø 3,5 mm - grey Ø 4,0 mm - yellow Ø 4,5 mm - purple Ø 5,0 mm - blue Ø 6,0 mm - green

Information supplied by the three product labels to the outer packaging of the Implant System:

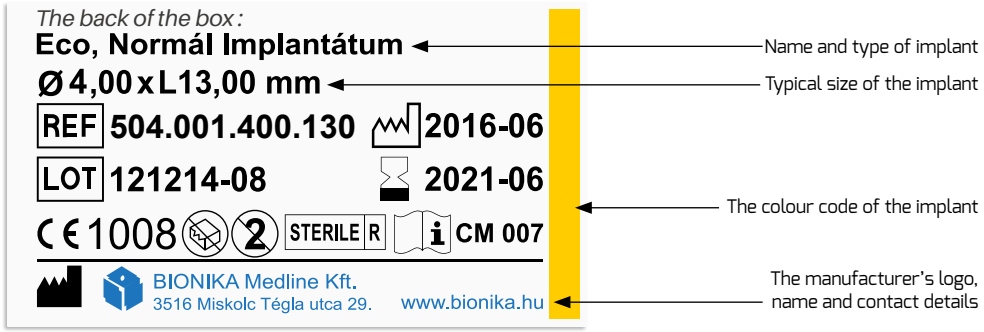
The side of the box:



Top of the box :



The back of the box :



Explanation of label codes:

Ø	Diameter		Expiration date	NON STERILE	Non-sterile product in the package
L	Implant length		It is forbidden to use in the case of damaged packaging.		Read the usage guide!
REF	Item number	2	Reuse is forbidden!	CE 1011	Certification company code
LOT	Serial number	STERILE R	Sterilized with gamma rays		Manufacturer's name and Contact
	Production time	STERILE	sterilized with steam or dry heat		


eco
plant
IMPLANT SYSTEM

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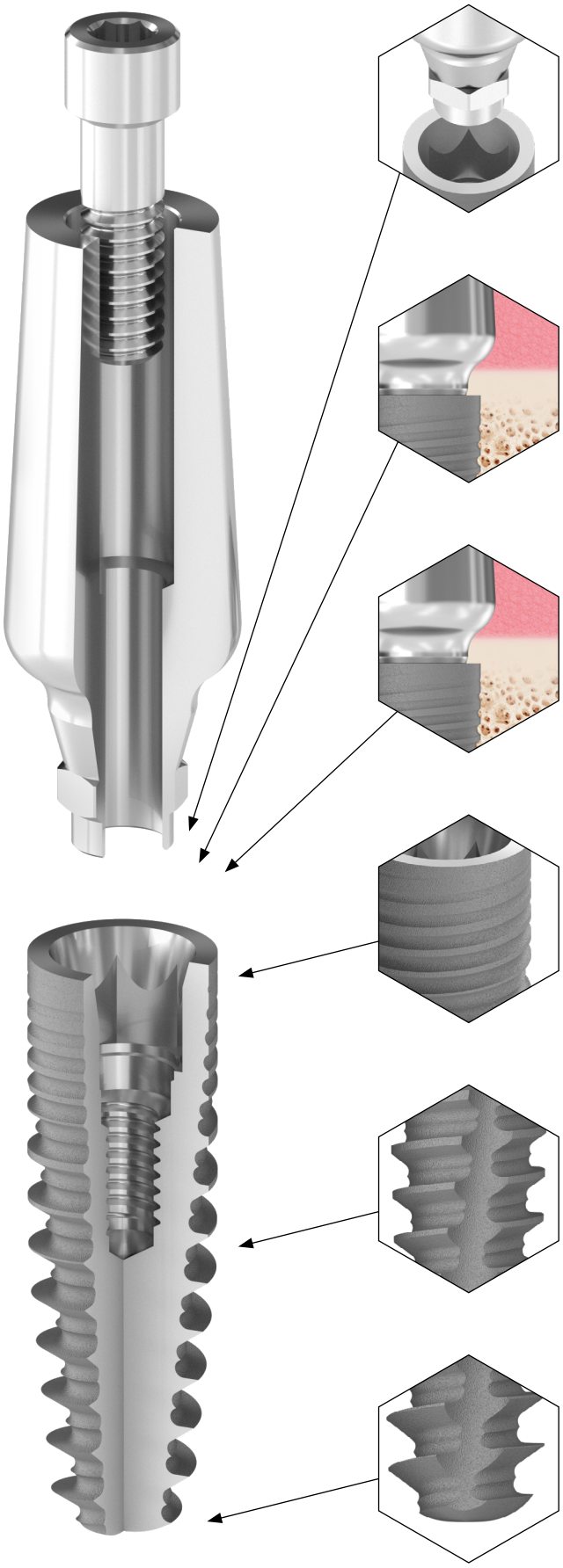
The products in the publication are only illustrations, they do not cover the exact appearance and shape of the product.

Distinctive characteristics of the **eco-plant** implant system



Connection: Cone and hex and cyclinder

The most perfect fixation is provided which is well-proven in the engineering practice. 30 degree cone angle is applied which eventuates micromotor-free power transmission and offers favorable conditions for the accurate open or closed spooned sampling. It superimposes the powers deep right into the implant.

Cortical Level

The chances of the implant persistency are significantly improved by inserting the upper edge of the implant at the cortical level or below (from 0,5 to 1 mm) which is proven by surgical experiences on the long run.

Platform switching

The diameter of the abutment is smaller than the outer part of the implant which is connected to the bone. This way the soft tissue closes upon the ingoing aperture and the implant's connecting surface of the bone nest, covering, insulating that like as a sealing ring.

Spirally microstriated cortical surface

The multi- paragraphed microstriated spiral surface can function as a significant weight bearing element connected to the cortical and ensuring micromotor-free condition for the fast inserting. This self-closing thread structure due to the cycloid cord thread geometry helps facilitating dynamic force convection and ensures micromotor-free condition for fast insertion.

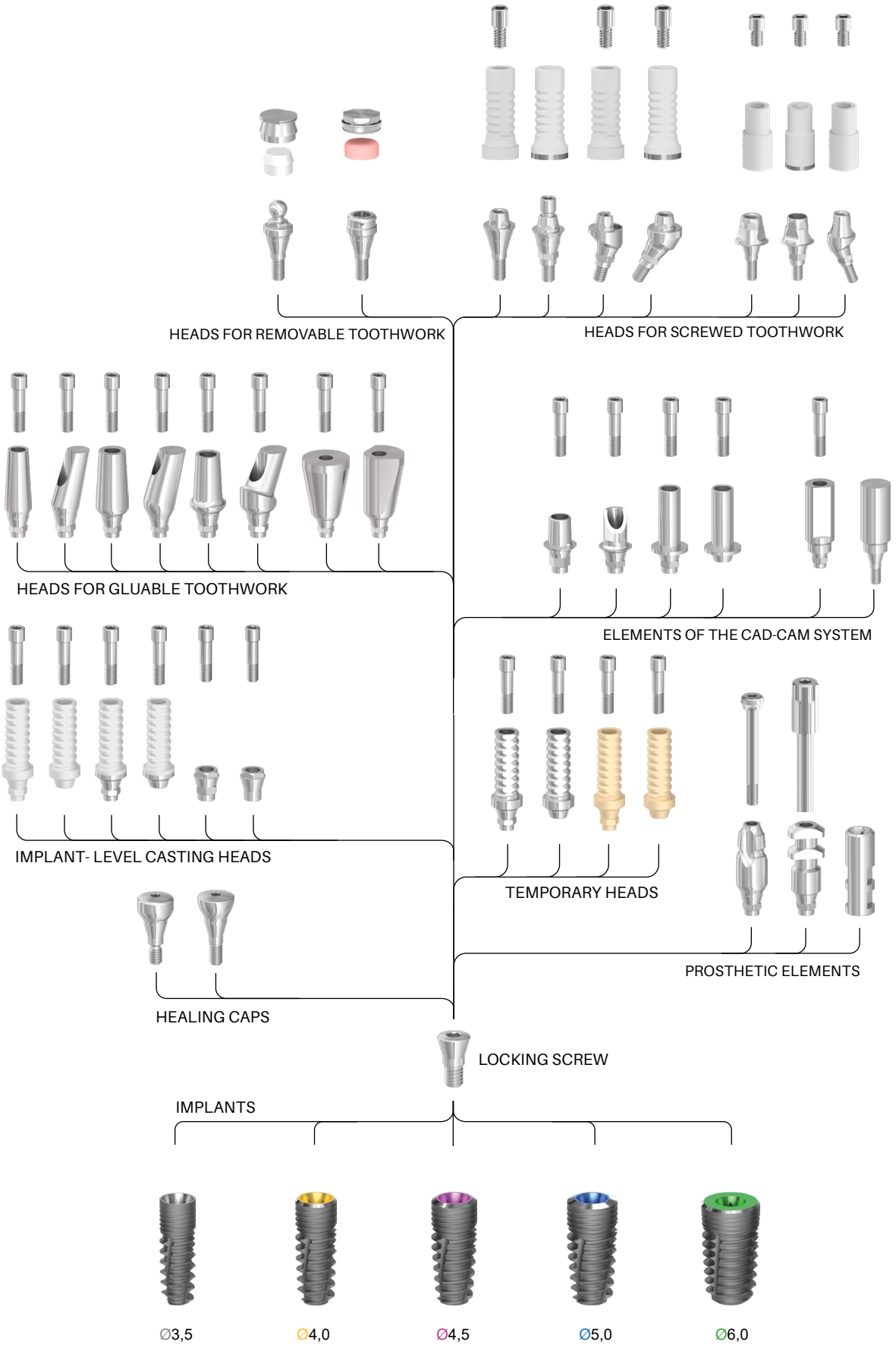
Anatomical root form

The Eco-plant follows the form of the anatomical tooth root. Due to the conicity,high thread pitch, high thread deepness, self-closing and self-tapping shaping of the implant screw thread, it has a bone-compacting effect. Thus, there is an option for immediate loadness of the implant as needed as a result of the high primer stability.

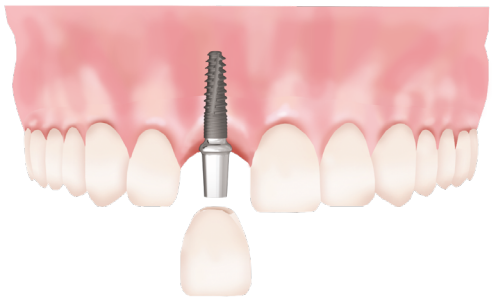
Rounded implant end

It helps facilitating the minor direction changes when inserting the implant.

The functional structure of the **eco-plant** system elements



The applicational fields of the **eco-plant** implant system

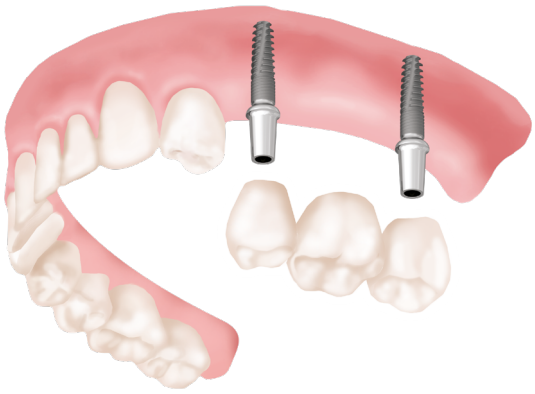


In the case of one tooth deficiency

In this case of the replacement of a tooth, we do not have to grind two healthy teeth for bridge replacement, but inserting an implant, then we need to glue a crown in the same way as the traditional one.

In the case of end of line tooth deficit(s)

In this case, in the absence of a pillar tooth, we are not able to make a fixed replacement (bridge). With the implantation of at least two implants, you are already make the (fixed) bridge replacement.



Removeable denture

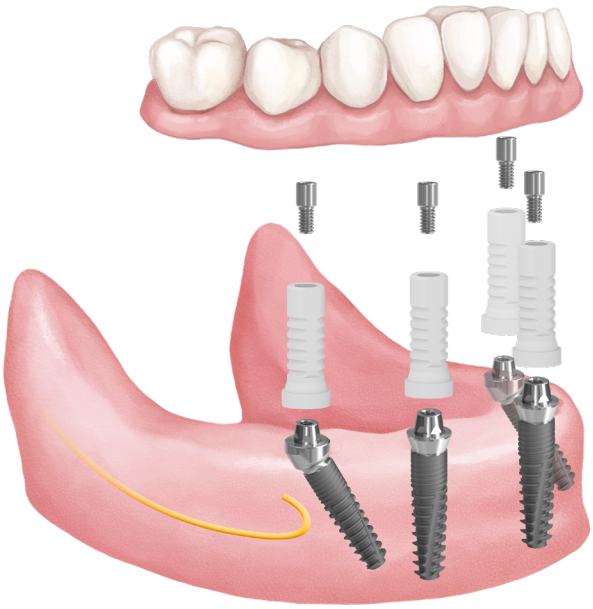
In the case of total tooth deficit

In this case the patient has no tooth, complete tooth augmentation can be performed. In this case, there one solution is the removable denture: 2-4 implants are implanted, these will be the fixation for the removable tooth.

This brings a tremendous quality of life to the patient, as this way the denture will be very stable, so it can be used in chewing and speaking outright. There are two solutions possible in this case: ball head or locator head abutments can be applied.

With the implantation of several 6-8 implants, it is possible to make full fixation (round bridge) augmentation, which is both functional and aesthetically close to the natural teeth.

Screw-retained fixed dental prosthetics



Optimum Concept

Optimum Concept

All-on-4® type - Economical Solution

The Optimum Concept provides great stability, with only four implants being implanted.

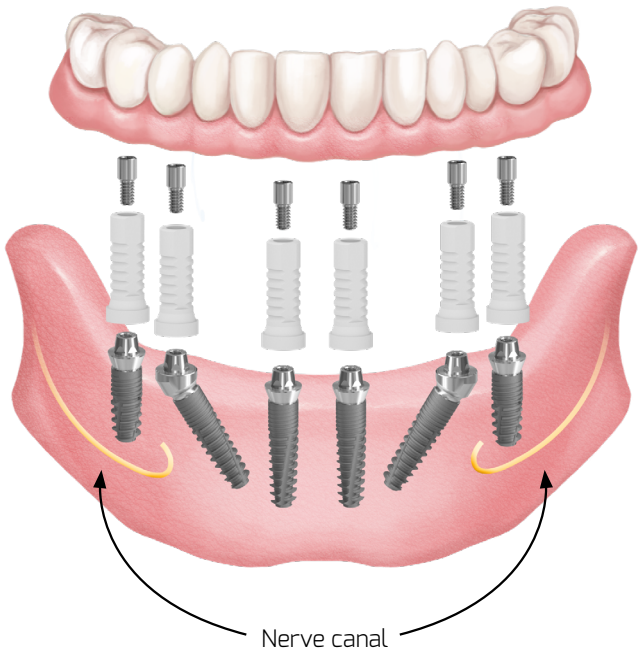
- The temporary denture can be inserted on the day of surgery.
- Immediate improvement in function, speech and aesthetically.
- Treatment times are shorter and costs can be lower than conventional implant placement modes.
- Tilt rear implants can be fixed better into the front bone. This promotes prosthesis support.

Safe Concept

All-on-6® type - For extra stability

The stability of the toothwork can be increased with the Safe Concept. It is exceptionally advantageous in the case of extra chewing ability.

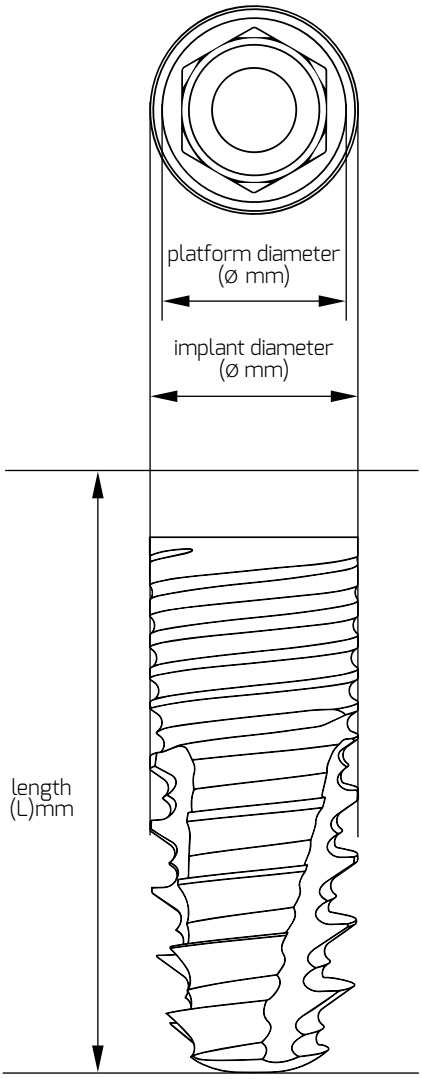
- The usage of oblique head implants allows longer implants to be used, avoiding the nerve canal.
- The usage of longer implants allows the bone and the implant to touch on a larger surface, thus making bone augmentation avoidable.
- Favorable bone level for tilted and axial implants.
- High remaining chances.



Safe Concept

eco-plant implant system

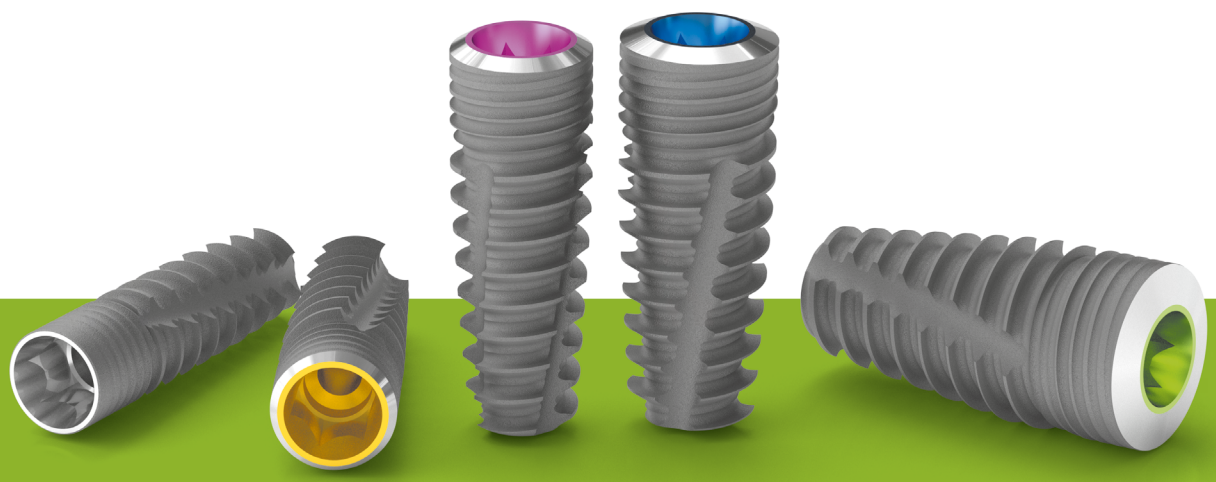
Sizes available of the Eco-plant implants



- **Ø 3.5** mm
- **Ø 4.0** mm
- **Ø 4.5** mm
- **Ø 5.0** mm
- **Ø 6.0** mm

The **eco-plant** implant system consists of five different implant diameters. Every implant diameter has five lengths in order to be an adequate solution for every situations. The **ø3.5** diameter implant is exceptionally suitable for thinner than average bone structures for holding toothworks on the long run. The usage of **ø4.0** and **ø4.5** diameter is beneficial for average bone structures, and the **ø5.0** and **ø6.0** diameter implants are beneficial for bigger than average bone stocks.

The structure of every Eco implant is homogeneous, made of high solidity alloyed titanium.



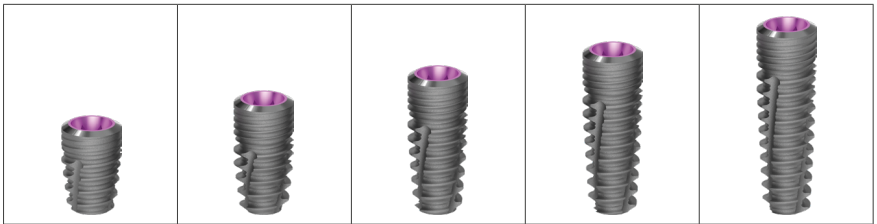
Ø 3.5

inserting length (L):	7 mm	9 mm	11 mm	13 mm	15 mm

Ø 4.0

inserting length (L):	7 mm	9 mm	11 mm	13 mm	15 mm

Ø 4.5

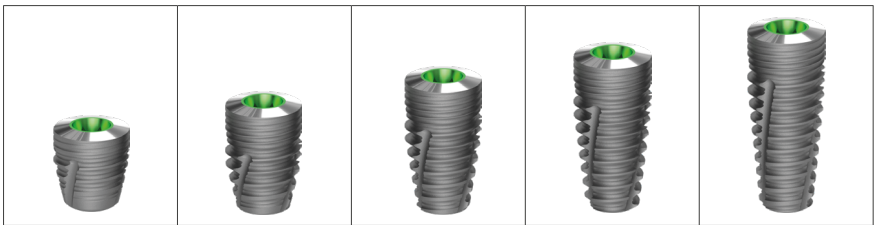


inserting length (L):	7 mm	9 mm	11 mm	13 mm	15 mm

Ø 5.0

inserting length (L):	7 mm	9 mm	11 mm	13 mm	15 mm

Ø 6.0



inserting length (L):	7 mm	9 mm	11 mm	13 mm	15 mm

The drilling protocol of the **eco-plant** implant system

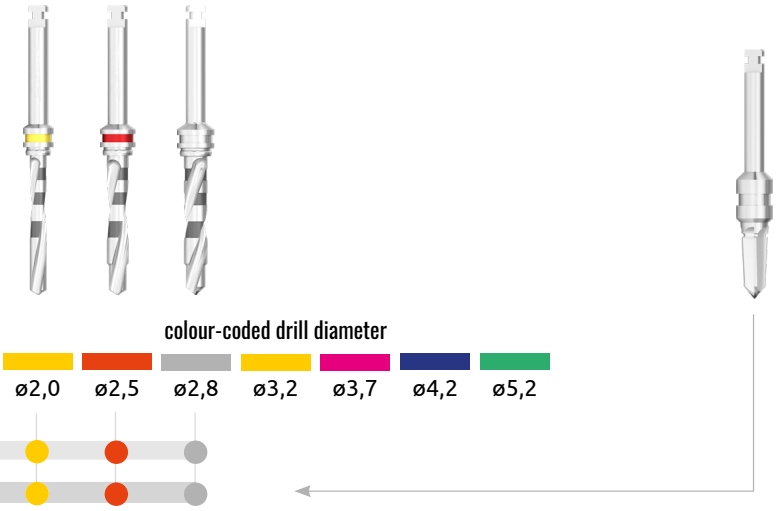
Drilling Indicators:

- alternatively used

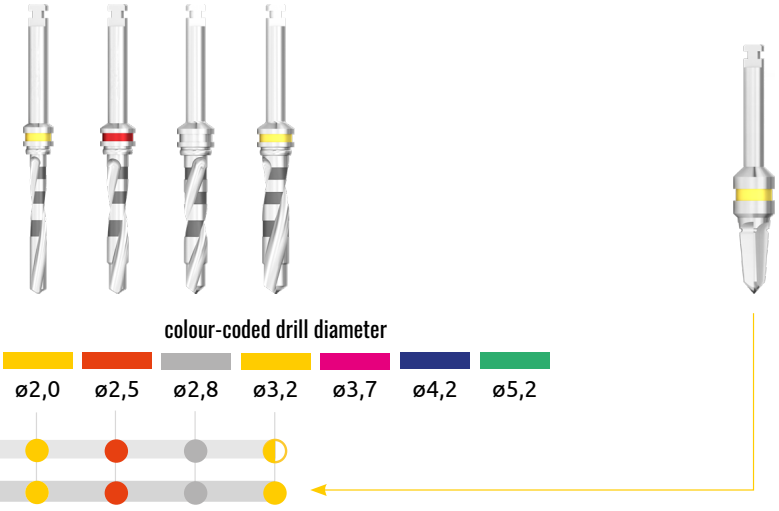
- ½ length drilling alternatively

- recommended drilling in ¾ or in full length

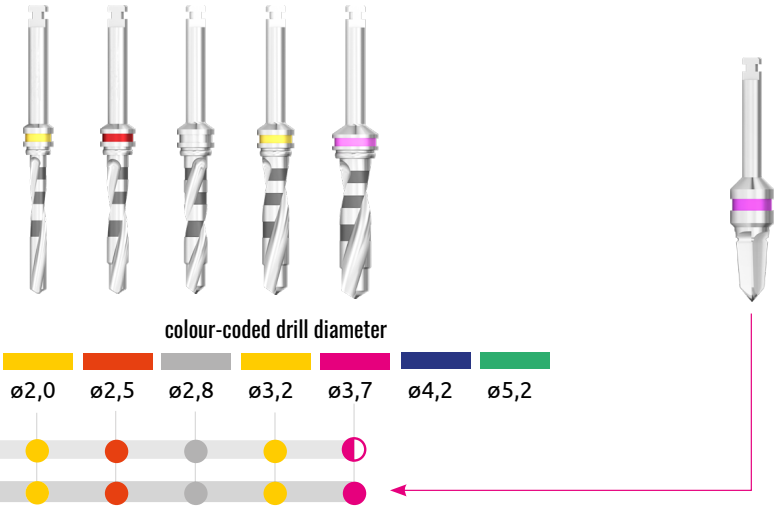
Ø 3.5 mm
implant drilling protocol



Ø 4.0 mm
implant drilling protocol



Ø 4.5 mm
implant drilling protocol



implant diameter

colour-coded drill diameter

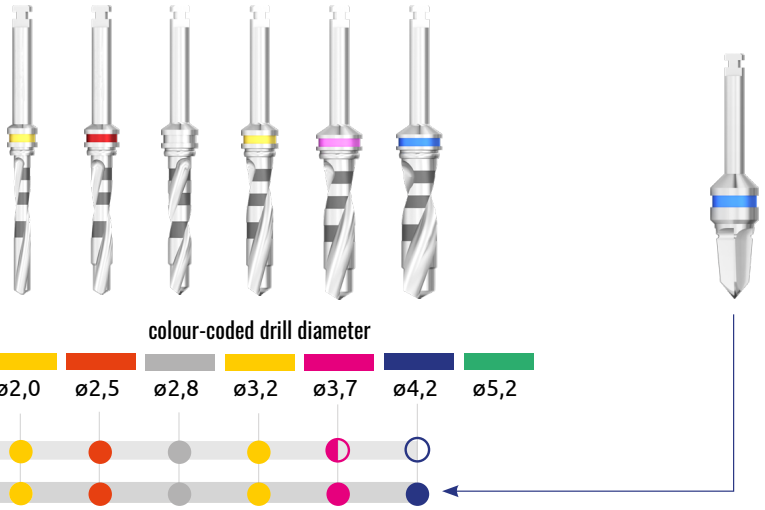
ø2,0 ø2,5 ø2,8 ø3,2 ø3,7 ø4,2 ø5,2

soft bone

hard bone

Ø4.5

Ø 5.0 mm
implant drilling protocol



implant diameter

colour-coded drill diameter

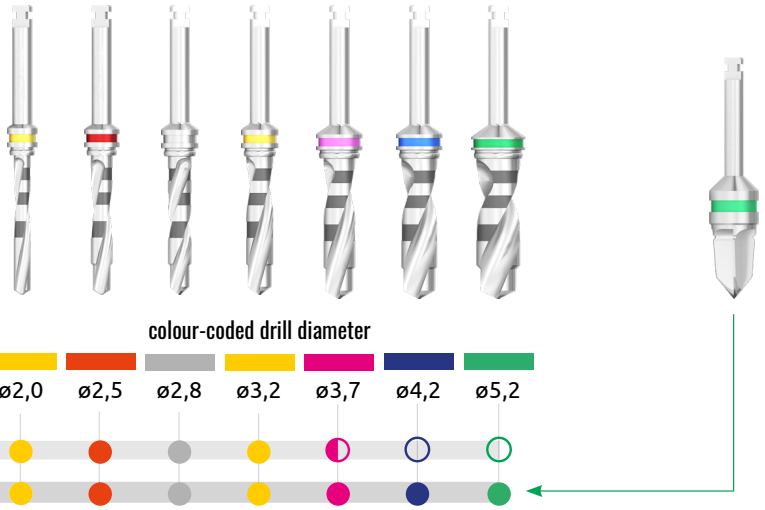
ø2,0 ø2,5 ø2,8 ø3,2 ø3,7 ø4,2 ø5,2

soft bone

hard bone

Ø5.0

Ø 6.0 mm
implant drilling protocol



implant diameter

colour-coded drill diameter

ø2,0 ø2,5 ø2,8 ø3,2 ø3,7 ø4,2 ø5,2

soft bone

hard bone

Ø6.0


eco
plant
ABUTMENT SYSTEM

ABUTMENT SYSTEM | TABLE OF CONTENTS

The products in the publication are only illustrations, they do not cover the exact appearance and shape of the product.

eco-plant abutments

1. Implants

PROSTHETIC ELEMENTS

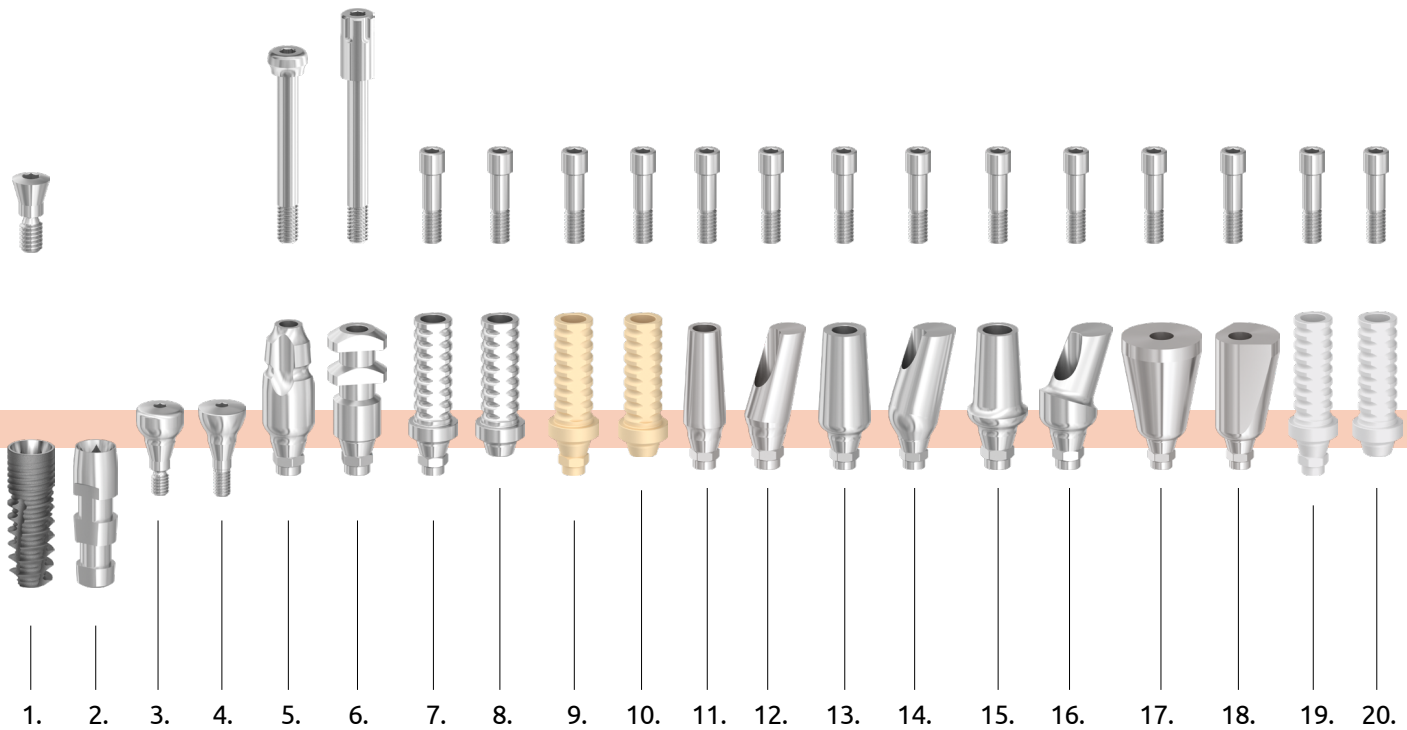
2. Technical implant
3. Healing cap, narrow
4. Healing cap, anatomical
5. Sampling head for closed spoon
6. Sampling head for open spoon
7. Temporary head, through-bolted, positioned
8. Temporary head, through-bolted, non-positioned
9. Temporary head, through-bolted, positioned, PEEK
10. Temporary head, through-bolted, non-positioned, PEEK

FOR GLUABLE TOOTHWORK

11. Narrow head, straight
12. Narrow head oblique
13. Universal head, straight
14. Universal head, oblique
15. Anatomical head, straight
16. Anatomical head, oblique
17. Trapezoidal head
18. Delta head

IMPLANT-LEVEL CASTING HEADS

19. Castable plastic head, positioned
20. Castable plastic head, non-positioned



21. Cobalt chromium-based casting head, positioned
22. Cobalt chromium-based casting head, non-positioned
23. Interface, positioned
24. Interface, non-positioned

FOR REMOVABLE TOOTHWORK

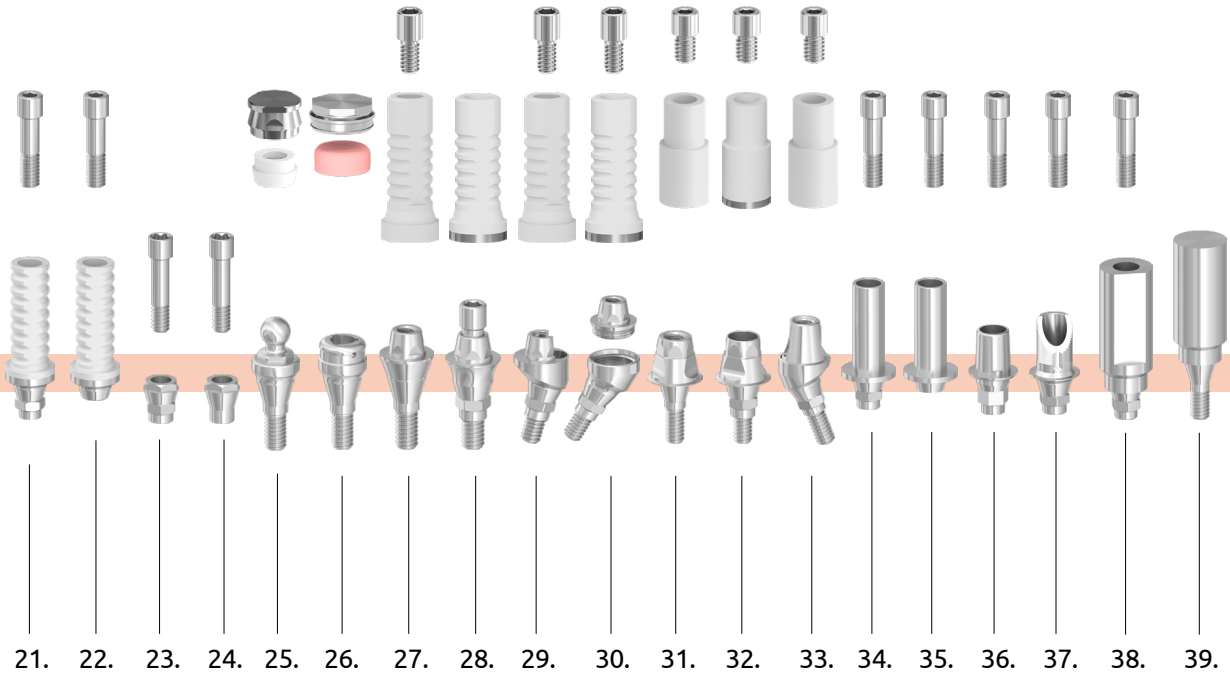
25. Ball-head
26. Locator head, straight

FOR SCREWED TOOTHWORK

27. Multi-unit head, straight
28. Multi-unit head, through-bolted
29. Multi-unit head, oblique
30. MC head, oblique
31. Multi-unit SR head, screwable
32. Multi-unit SR head, through-bolted
33. Multi-unit SR head, oblique

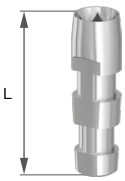
ELEMENTS OF CAD-CAM SYSTEM

34. Titanium base
35. Press ceramic base
36. Tube-head, positioned
37. Tube-head, non-positioned
38. Scanbody head, through-bolted
39. Scanbody head, screwable



The abutments of the **eco-plant** implant system

TECHNICAL IMPLANT

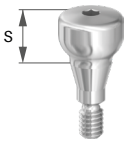


platform (mm): ø3,5

head height (L mm)

12

HEALING CAP, NARROW

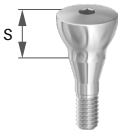


platform (mm): ø3,5

sulcus height (S mm)

2 4 6

HEALING CAP, ANATOMICAL

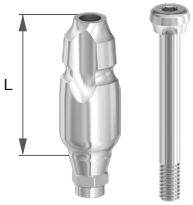


platform (mm): ø3,5

sulcus height (S mm)

2 4 6

SAMPLING HEAD FOR CLOSED SPOON

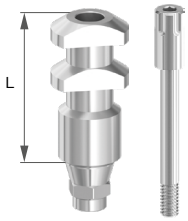


platform (mm): ø3,5

head height (L mm)

11

SAMPLING HEAD FOR OPEN SPOON

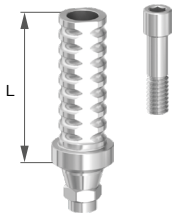


platform (mm): ø3,5

head height (L mm)

11

TEMPORARY HEAD, THROUGH-BOLTED, POSITIONED

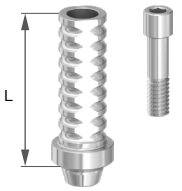


platform (mm): ø3,5

head height (L mm)

12

TEMPORARY HEAD, THROUGH-BOLTED, NON-POSITIONED

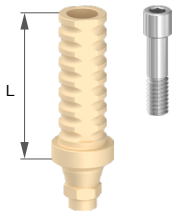


platform (mm): ø3,5

head height (L mm)

12

TEMPORARY HEAD, THROUGH-BOLTED, POSITIONED, PEEK

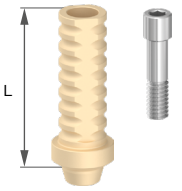


platform (mm): ø3,5

head height (L mm)

12

TEMPORARY HEAD, THROUGH-BOLTED, NON-POSITIONED, PEEK

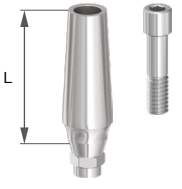


platform (mm): ø3,5

head height (L mm)

12

NARROW HEAD, STRAIGHT



platform (mm): ø3,5

head height (L mm)

9

NARROW HEAD, OBLIQUE 15°; 25°

platform (mm): ø3,5

head height (L mm)

9

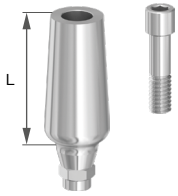
TRAPEZOIDAL HEAD 15°; 25°, 35°, 45°

platform (mm): ø3,5

head height (L mm)

9 11 13

UNIVERSAL HEAD, STRAIGHT

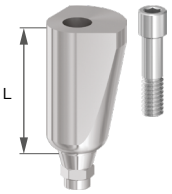


platform (mm): ø3,5

head height (L mm)

11

DELTA HEAD 15°; 25°, 35°, 45°



platform (mm): ø3,5

head height (L mm)

9 11 13

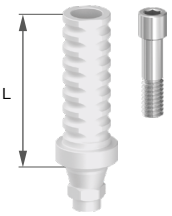
UNIVERSAL HEAD, OBLIQUE 15°; 25°; 35°; 45°

platform (mm): ø3,5

head height (L mm)

11

CASTABLE PLASTIC HEAD, NON-POSITIONED

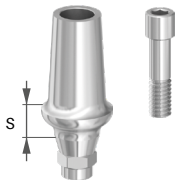


platform (mm): ø3,5

head height (L mm)

12

ANATOMICAL HEAD, STRAIGHT

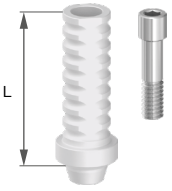


platform (mm): ø3,5

sulcus height (S mm)

2 4 6

CASTABLE PLASTIC HEAD, POSITIONED

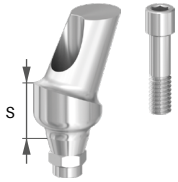


platform (mm): ø3,5

head height (L mm)

12

ANATOMICAL HEAD, OBLIQUE 15°; 25°

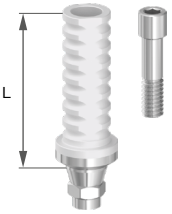


platform (mm): ø3,5

sulcus height (S mm)

2 4 6

Co-Cr BASED CASTING HEAD, POSITIONED



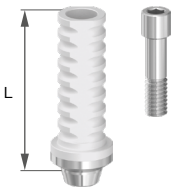
platform (mm): ø3,5

head height (L mm)

12

The abutments of the **eco-plant** implant system

Co-Cr BASED CASTING HEAD, NON-POSITIONED



platform (mm): ø3,5

head height (L mm)

12

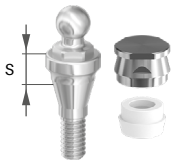
INTERFACE, POSITIONED

platform (mm): ø3,5

INTERFACE, NON-POSITIONED

platform (mm): ø3,5

BALL-HEAD



platform (mm): ø3,5

sulcus height (S mm)

0,5 1 2 3 4 5 6 7

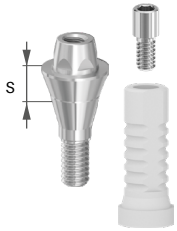
LOCATOR HEAD, STRAIGHT

platform (mm): ø3,5

sulcus height (S mm)

0,5 1 2 3 4 5 6 7

MULTI-UNIT HEAD, STRAIGHT

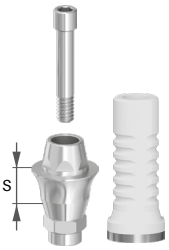


platform (mm): ø3,5

sulcus height (S mm)

0,5 1 2 3 4 5 6 7

MULTI-UNIT HEAD, THROUGH-BOLTED

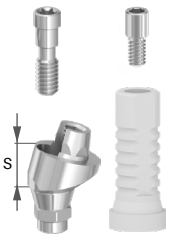


platform (mm): ø3,5

sulcus height (S mm)

0,5 1 2 3 4 5 6 7

MULTI-UNIT HEAD OBLIQUE, 20°, 30°

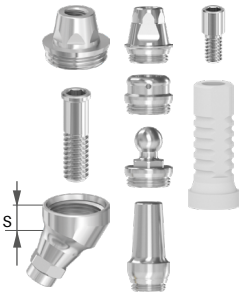


platform (mm): ø3,5

sulcus height (S mm)

1 2 3 4 5 6 7

MC HEAD OBLIQUE, 20°; 30°

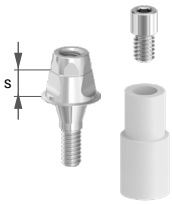


platform (mm): ø3,5

sulcus height (S mm)

1 2 3 4 5 6 7

MULTI-UNIT SR HEAD, SCREWABLE

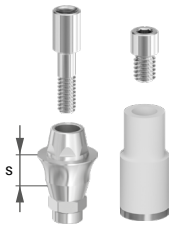


platform (mm) : ø3,5

sulcus height (S mm)

0,5 1 2 3 4 5 6 7

MULTI-UNIT SR HEAD, THROUGH-BOLTED

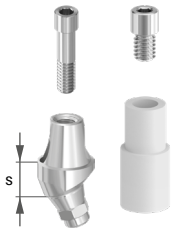


platform (mm): ø3,5

sulcus height (S mm)

0,5 1 2 3 4 5 6 7

MULTI-UNIT SR HEAD, OBLIQUE 20°; 30°

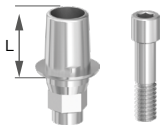


platform (mm): ø3,5

sulcus height (S mm)

1 2 3 4 5 6 7

TITANIUM BASE

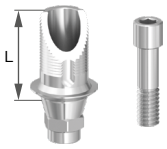


platform (mm): ø3,5

head height (L mm)

5

PRESS CERAMIC BASE

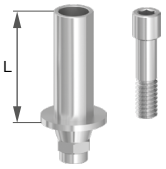


platform (mm): ø3,5

head height (L mm)

5

TUBE HEAD, POSITIONED

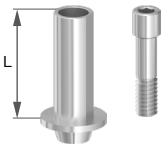


platform (mm): ø3,5

head height (L mm)

9

TUBE HEAD, NON-POSITIONED

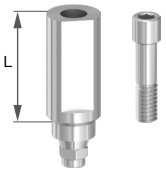


platform (mm): ø3,5

head height (L mm)

9

SCANBODY HEAD, THROUGH-BOLTED

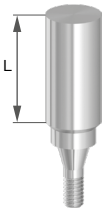


platform (mm): ø3,5

head height (L mm)

12

SCANBODY HEAD, SCREWABLE



platform (mm): ø3,5

head height (L mm)

12

Accessories of the **eco-plant abutments**

HEADS CREW, SURGICAL

platform (mm): ø3,5

MULTI-UNIT CUP SCREW

platform (mm): ø3,5

SAMPLING HEAD SCREW, FOR CLOSED SPOON

platform (mm): ø3,5

SR-HEADSCREW

platform (mm): ø3,5

It is the same in every diameter

SAMPLING HEADS CREW, FOR OPEN SPOON

platform (mm): ø3,5

SR-THROUGH-BOLT

platform (mm): ø3,5

MULTI-UNIT HEAD SCREW

platform (mm): ø3,5

It is the same in every diameter

INTERFACE SCREW

platform (mm): ø3,5

It is the same in every diameter

MULTI-UNIT THROUGH-BOLT

platform (mm)

BALL-HEAD CAP. NORMAL

platform (mm)

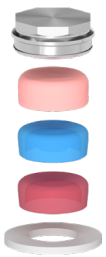
sphere diameter 2,5 mm
It is the same in every diameter

BALL-HEAD CAP. MICRO

platform (mm): ø3,5

sphere diameter 1,8 mm
It is the same in every diameter

LOCATOR HEAD CAP SET



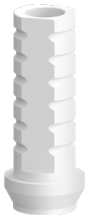
pink cap:
10-20 ° deviations , 3lbs retention

blue cap:
10-20° deviations, 1,5lbs retention

red cap:
20-40° deviations , 1lbs retention

It is the same in every diameter.

INTERFACE PLASTIC



platform (mm): ø3,5

It is the same in every diameter

CASTABLE HEAD, PLASTIC

platform (mm)

It is the same in every diameter

Co-Cr BASED CASTABLE HEAD

platform (mm): ø3,5

It is the same in every diameter

CASTABLE HEAD FOR SR-HEAD

platform (mm): ø3,5

It is the same in every diameter

Co-Cr BASED CASTABLE HEAD FOR SR-HEAD

platform (mm): ø3,5

It is the same in every diameter


eco
plant
SURGICAL INSTRUMENTS

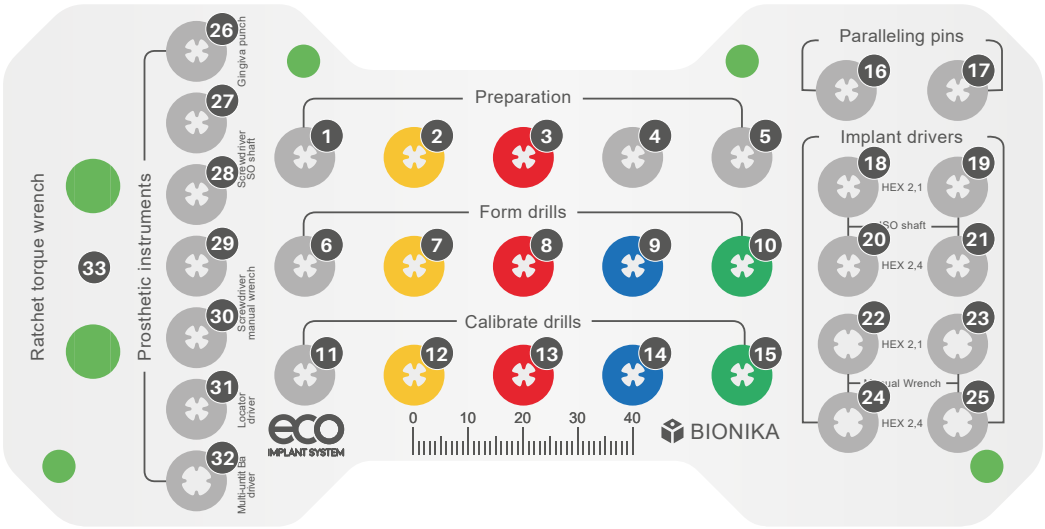
INSTRUMENTS | TABLE OF CONTENTS

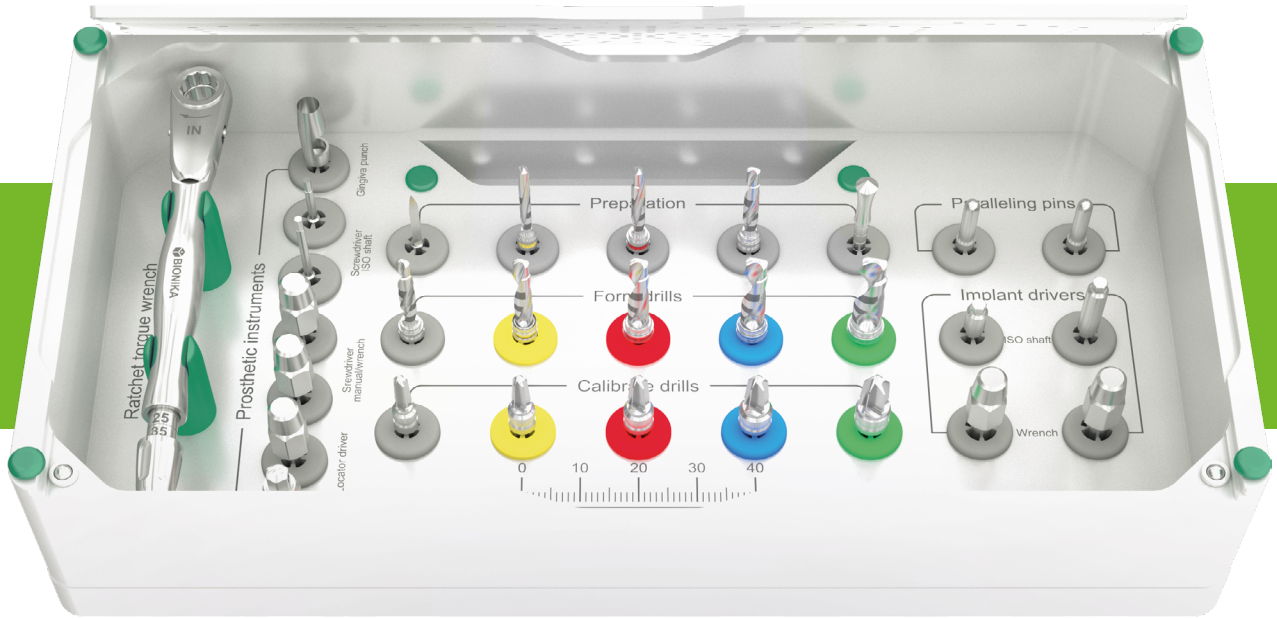
The products in the publication are only illustrations, they do not cover the exact appearance and shape of the product.

eco-plant large instrument kit

Our set of instruments includes instruments essential for dental implantation. The Eco-plant Large Instrument Kit contains 33 instruments, in a wide range of sizes, for a wide range of applications. The trays are structured according to the surgical order, labeling makes their usage easier. The tray is also suitable for sterilizing the instruments, this can be done together with the box or separately, as the tray can be uplifted from the box.

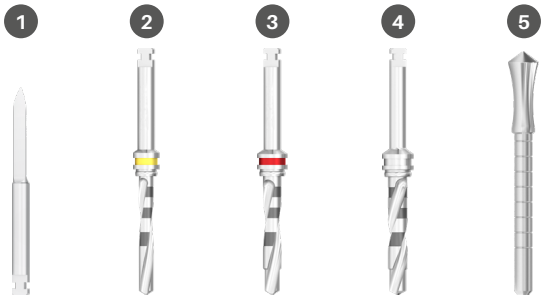
The layout of the Eco-plant Large Instrument Kit elements





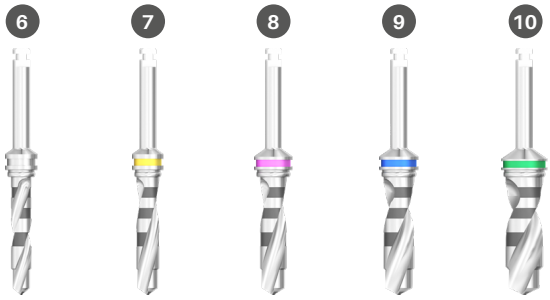
Preparation

1. Spear-pointed drill
2. Pre-drill ∅2.0
3. Pre-drill ∅2.5
4. Pre-drill ∅ 2.7
5. Depth gauge



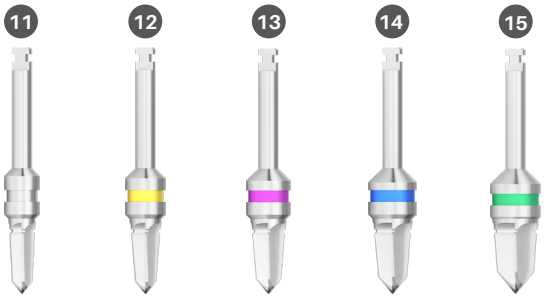
Thread formation

6. Core drill, ∅ 2.8
7. Core drill, ∅ 3.2
8. Core drill, ∅ 3.7
9. Core drill, ∅ 4.2
10. Core drill, ∅ 4.7



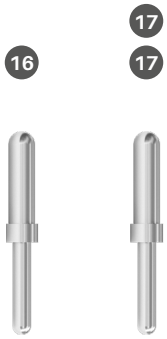
Thread calibration

11. Thread calibrator drill ∅ 3.2
12. Thread calibrator drill ∅ 3.7
13. Thread calibrator drill ∅ 4.2
14. Thread calibrator drill ∅ 4.7
15. Thread calibrator drill ∅ 5.5



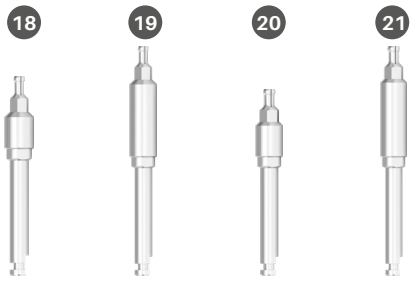
Paralleling pins

16. Paralleling pin, slim
17. Paralleling pin, thick



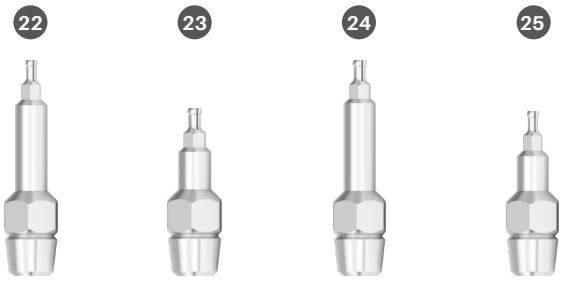
Implant drivers, mechanical

18. 6LT 2,1 x L6
19. 6LT 2,1 x L12
20. 6LT 2,4 x L6
21. 6LT 24 x L12



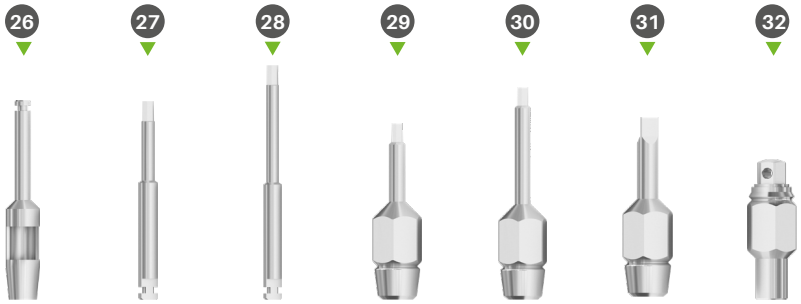
Implant drivers, manual

22. 6LT 2,1 x L6
23. 6LT 2,1 x L12
24. 6LT 2,4 x L6
25. 6LT 24 x L12



Prosthetic tools

26. Gingiva punch ∅4,0xL15
27. Head wrench, mechanical 6Lt1,27xL10
28. Head wrench, mechanical 6Lt1,27xL15
29. Head wrench, manual 6Lt1,27xL10
30. Head wrench, manual 6Lt1,27xL15
31. Locator key
32. Multi-unit key 6LT2,7



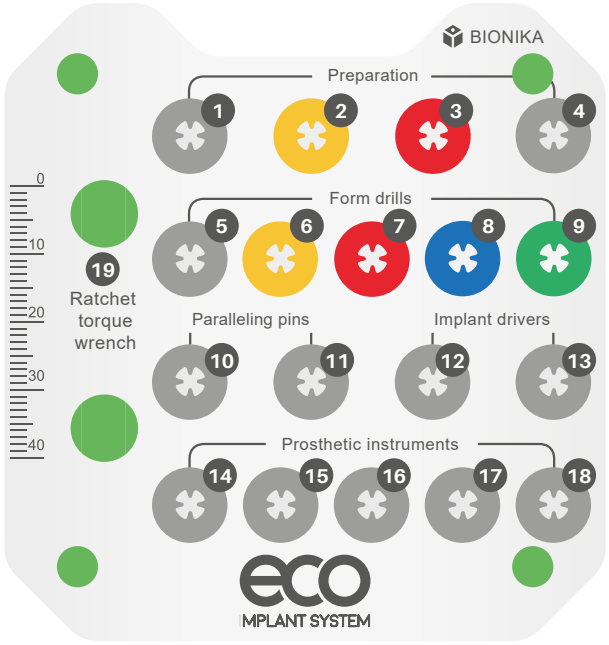
Ratchet torque wrench

33. Ratchet torque wrench

eco-plant small instrument kit

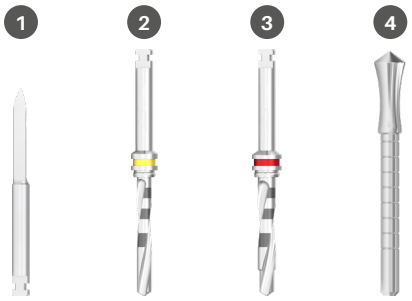
The Eco-plant Small Instrument Kit is a practical, more economical solution. The instruments that are inevitable for surgeries can be found in the small tray as they can be found in the large tray as well, only in a smaller range of sizes. There are 19 instruments in the small instrument tray.

The layout of the elements of **the Eco-plant Small instrument kit**



Preparation

1. Spear-pointed drill
2. Pre-drill ∅2.0
3. Pre-drill ∅2.5
4. Depth gauge



Thread formation

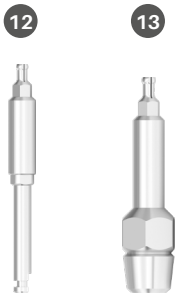
5. Core drill, ∅ 2.8
6. Core drill, ∅ 3.2
7. Core drill, ∅ 3.7
8. Core drill, ∅ 4.2
9. Core drill, ∅ 4.7

Paralleling pins

10. Paralleling pin, slim
11. Paralleling pin, thick

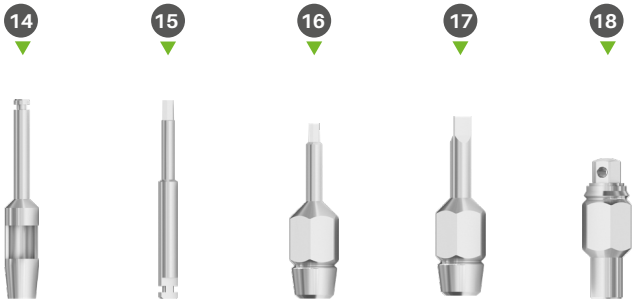
Implant drivers

12. Mechanical, 6LT 2,4 x L12
13. Manual, 6LT 2,4 x L12



Prosthetic tools

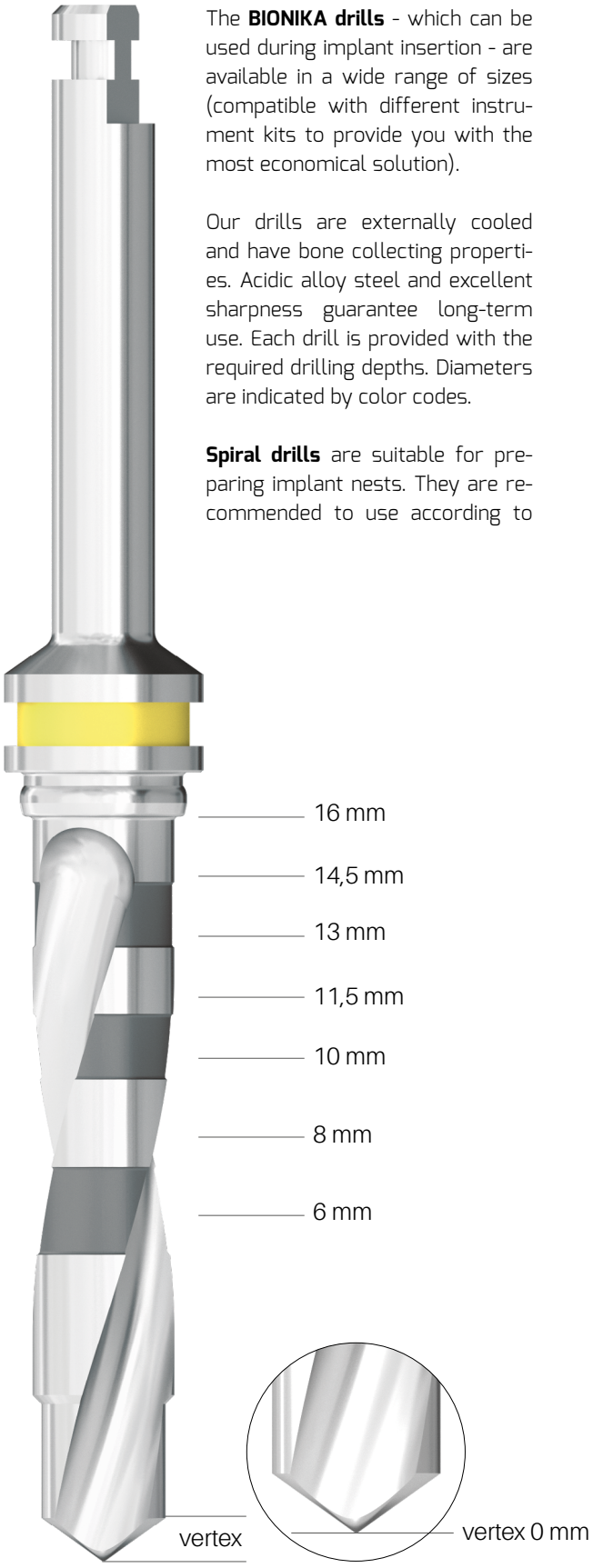
14. Gingiva punch ∅4,0xL15
15. Head wrench, mechanical 6Lt1,27xL10
16. Head wrench, manual 6Lt1,27xL10
17. Locator key
18. Multi-unit/ball-head key 6LT2,7



Ratchet torque wrench

19. Ratchet torque wrench

eco-plant surgical drills



The **BIONIKA drills** - which can be used during implant insertion - are available in a wide range of sizes (compatible with different instrument kits to provide you with the most economical solution).

Our drills are externally cooled and have bone collecting properties. Acidic alloy steel and excellent sharpness guarantee long-term use. Each drill is provided with the required drilling depths. Diameters are indicated by color codes.

Spiral drills are suitable for preparing implant nests. They are recommended to use according to the drilling protocol, in the case softer and harder bone structures.

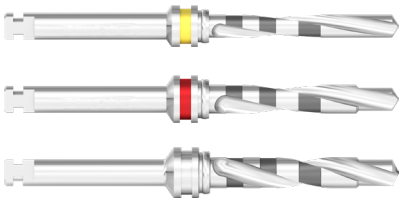
The Thread Calibrator Drills are suitable for expanding the implant nests as needed, so that we can extend the upper third of the bone nest. They are recommended to use in the case of harder than average bone structure.

Pre-drills

Ø2.8

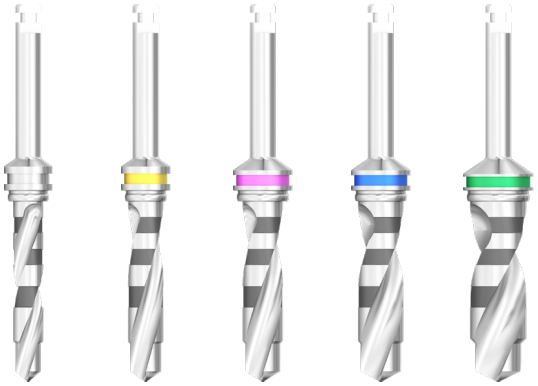
Ø3.2

Ø3.7



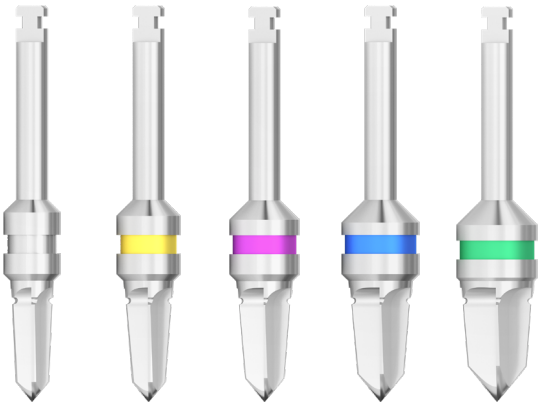
Core drills

Ø2.8 Ø3.2 Ø3.7 Ø4.2 Ø5.2



Thread groove calibrating drills

Ø3.2 Ø3.7 Ø4.2 Ø4.7 Ø5.2

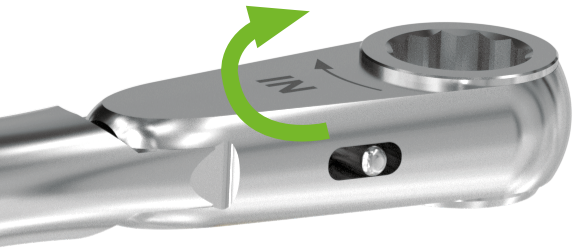


Ratchet torque wrench

The ratchet torque wrench is used to tighten and insert screws and implants. Using pre-set torque, this prevents the implant from fracturing and ensures the optimum power transfer when inserting the implant.

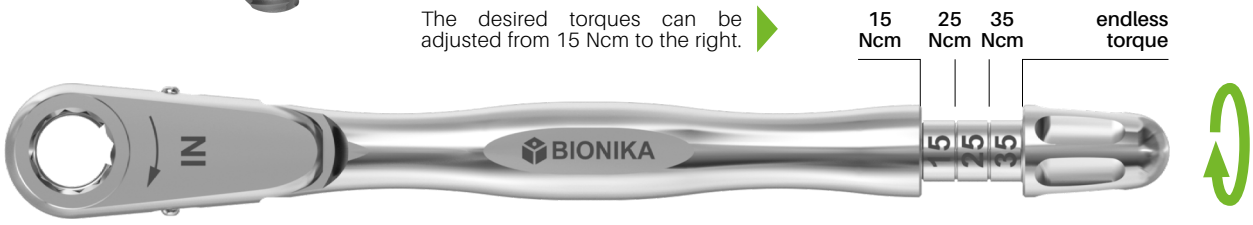
The scale of the torque rates from 15 to 35 Ncm. The desired torques can be adjusted from 15 Ncm to the right for the desired scale. When the ratchet torque wrench adjuster screw bolted to the stop, the wrench of the torque can be infinite, so it can also be used to produce a much greater torque than the torque shown on the scale, as needed.

• ERGONOMIC CONSTRUCTION • STAINLESS STEEL • RELIABLE LIFETIME • REPLACABLE KEY INTERLINE • PRECISE TORQUE CONTROL • SOUND SIGNAL • PROFESSIONAL QUALITY • STABLE TORQUE SCALE DURING USE



Heads and Screws	Key interline	Torque
Locking screw		**Manual implant key driver** 10-15 Ncm
Healing cap		
Sampling head screw for closed and open spoon		
Sampling head for closed and open spoon		
Head screw		**Ratchet torque wrench** Torque of the required screw tightening: In the case of M1,4 screw it is 15 Ncm In the case of M1,6 screw it is 20 Ncm In the case of M1,8 screw it is 25 Ncm In the case of M2,0 screw it is 30 Ncm
Universal head, straight		
Universal head, oblique		
Anatomical head, straight		
Anatomical head, oblique		
Titanium base		
Multi-unit head, through-bolted		
Multi-unit head screw, SR head screw		
Multi-unit head, screwable		
SR head, screwable		
Ball head		
Locator head		

The desired torques can be adjusted from 15 Ncm to the right.



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