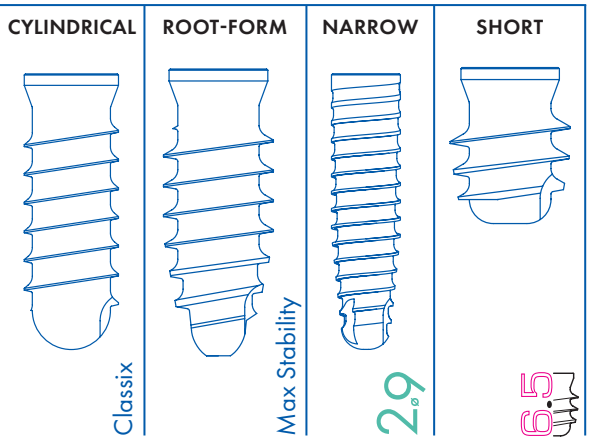
IMPLANT SYSTEM

XCN®

IMPLANTS

IMPLANT TYPES

The Leone implant system offers four different implant macro-designs:
- **Classix implant**
  featuring a cylindrical geometry;
- **Max Stability implant**
  having a root-form geometry and a more aggressive thread design;
- **2.9 Narrow implant**
  featuring a maximum diameter of only 2.9 mm;
- **6.5 Short implant**
  with a length reduced to 6.5 mm.

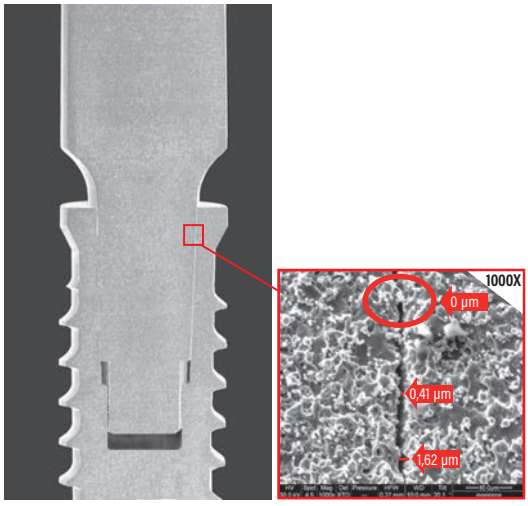


IMPLANT-ABUTMENT MORSE TAPER CONNECTION

The distinctive feature of the system is the Leone implant-abutment connection, a combination of two geometries:
screwless self-locking Morse taper* and internal hexagon.
The Morse taper and the absence of the abutment screw guarantee:
- no micro-movements;
- no micro-gaps, thus perfect bacterial seal;
- option of subcrestal placement of the implants;
- outstanding resistance to masticatory loads.

The result is a highly reliable system, very similar to the natural tooth.

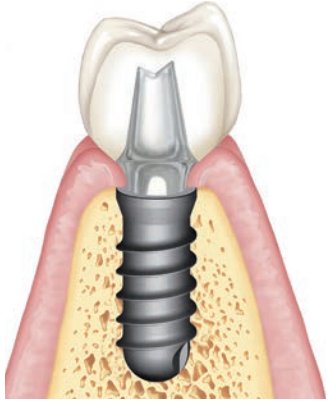
Bibliography: www.leone.it in the section "Scientific publications"



PLATFORM SWITCHING

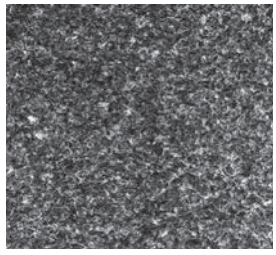
The "Platform Switching" design of the transmucosal portion increases the height and the volume of the soft tissue, thus sealing and protecting the underlying bone. In combination with the properties of the Morse taper connection, it promotes the maintenance of the periimplant tissues over time, as proven by long-term clinical studies.

Bibliography: www.leone.it in the section "Scientific publications"



**International UNI ISO 296*

HRS SURFACE



The HRS (High Rutile Surface) surface is obtained through an exclusive sandblasting process which produces an implant surface roughness $R_a \simeq 2{,}5$ µm ($R_a \simeq 1$ µm for 2.9 Narrow implants). The following cleaning treatments (passivation and decontamination) remove any organic and inorganic residues from the surface.

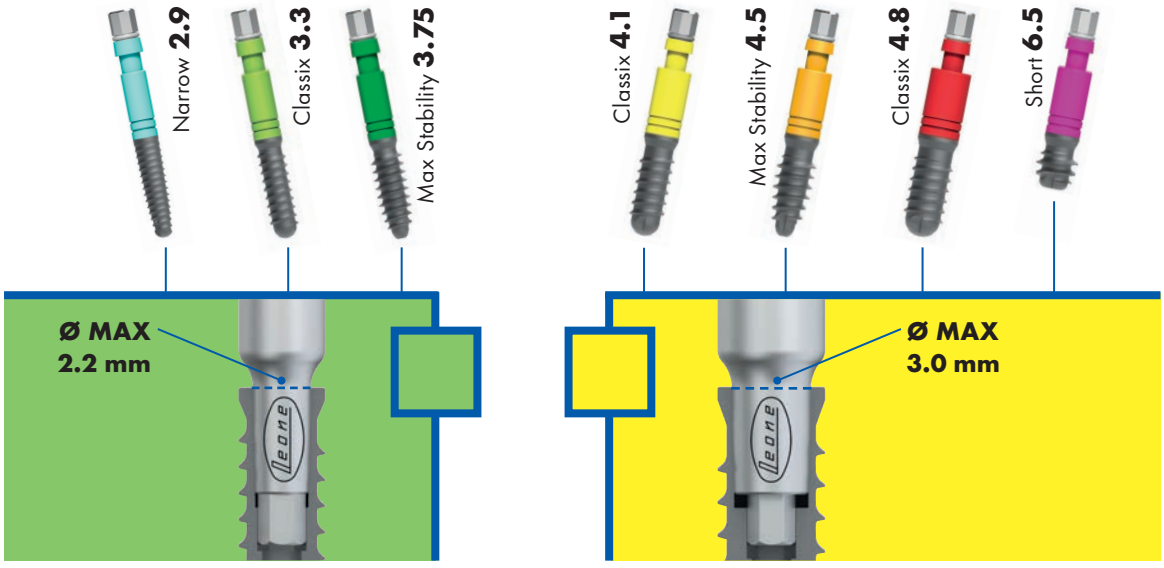
Bibliography: www.leone.it in the section "Scientific publications"

IMPLANT PACKAGING

The sterile packaging includes a vial inside a blister, wrapped in a paper box.
The box design ensures easy storage and identification of the product thanks to the large colour-coded label with detailed product information clearly visible when the boxes are stacked.
Each package includes multilingual instructions for use and four peel labels.

COLOUR CODING OF IMPLANTS

Each implant is identified by a colour-coded carrier.
The carrier is made of titanium core and a biopolymer outer shell in the colour code of the implant.



COLOUR CODING OF THE PROSTHETIC CONNECTIONS

Small diameter implants have a **green** colour-coded prosthetic connection (connection diameter 2.2 mm), whereas larger diameter implants have a **yellow** colour-coded prosthetic connection (connection diameter 3.0 mm). Connection diameter is the maximum size of the Morse taper.

CLASSIX IMPLANTS

Ideal for

- medium and high bone density
- limited horizontal bone availability
- crestal sinus lift

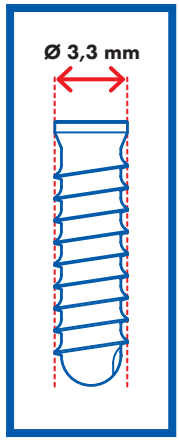
Features

- made of medical grade 5 titanium
- flared coronal portion
- cylindrical geometry
- atraumatic thread design (Standard ISO 5835)
- two-lobed hemispherical apex
- 3 implant diameters (3.3 – 4.1 – 4.8 mm)
- 4 lengths (8 - 10 - 12 - 14 mm)

Sterile package

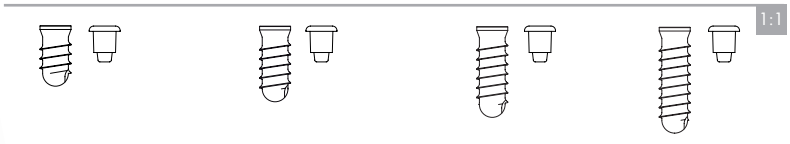
- 1 implant mounted on carrier
- 1 cover cap in biopolymer

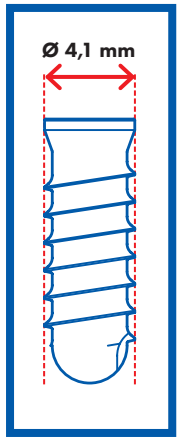
Classix implants **Ø 3,3** mm
connection diameter 2.2 mm colour code: green



Ø (mm)	3,3	3,3	3,3	3,3
length (mm)	8	10	12	14
REF	**110-3308-02**	**110-3310-02**	**110-3312-02**	**110-3314-02**

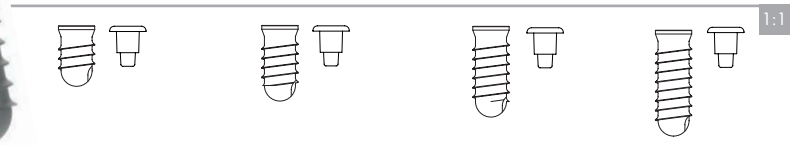
Classix implants **Ø 4,1** mm
connection diameter 3.0 mm colour code: yellow

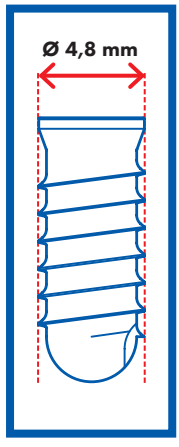




Ø (mm)	4,1	4,1	4,1	4,1
length (mm)	8	10	12	14
REF	**110-4108-02**	**110-4110-02**	**110-4112-02**	**110-4114-02**

Classix implants **Ø 4,8** mm
connection diameter 3.0 mm colour code: yellow





Ø (mm)	4,8	4,8	4,8	4,8
length (mm)	8	10	12	14
REF	**110-4808-30**	**110-4810-30**	**110-4812-30**	**110-4814-30**

MAX STABILITY IMPLANTS

Ideal for

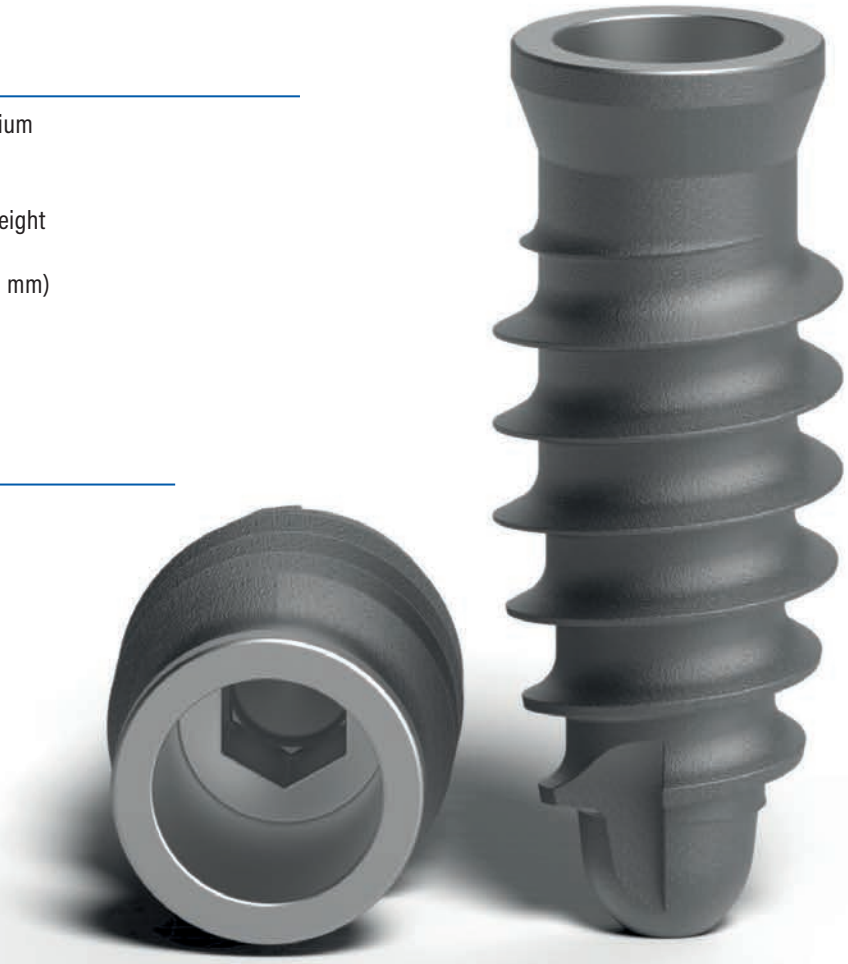
- poor bone density
- immediate post-extraction implant placement
- immediate loading
- ridge split

Features

- made of medical grade 5 titanium
- flared coronal portion
- root-form geometry
- over 50% increase in thread height
- two-lobed conical apex
- 2 implant diameters (3.75 - 4.5 mm)
- 4 lengths (8 - 10 - 12 - 14 mm)

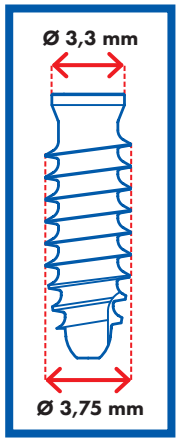
Sterile package

- 1 implant mounted on carrier
- 1 cover cap in biopolymer

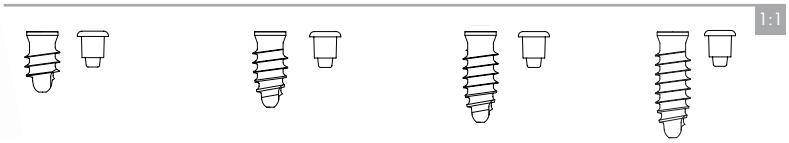


Max Stability implants **Ø 3,75** mm
connection diameter 2.2 mm colour code: green

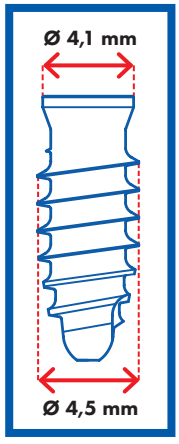
Ø (mm)	3,75	3,75	3,75	3,75
length (mm)	8	10	12	14
REF	**110-3808-02**	**110-3810-02**	**110-3812-02**	**110-3814-02**



Max Stability implants **Ø 4,5** mm
connection diameter 3.0 mm colour code: yellow



Ø (mm)	4,5	4,5	4,5	4,5
length (mm)	8	10	12	14
REF	**110-4508-02**	**110-4510-02**	**110-4512-02**	**110-4514-02**



2.9 NARROW IMPLANTS

Ideal for

- narrow ridges and limited interdental spaces
- upper lateral incisors
- lower central and lateral incisors

Features

- made of medical grade 5 titanium
- cylindrical coronal portion
- conical geometry
- fine thread pitch
- tri-lobed conical apex
- implant diameter of 2.9 mm
- 3 lengths (10 - 12 - 14 mm)

Sterile package

- 1 implant mounted on carrier
- 1 cover cap in biopolymer

6.5 SHORT IMPLANT

Ideal for

- limited vertical bone availability

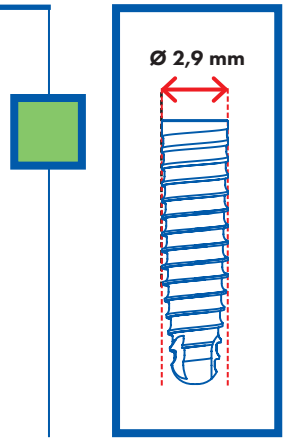
Features

- made of medical grade 5 titanium
- flared coronal portion
- cylindrical geometry
- 125% increase in thread height
- two-lobed flat apex
- implant diameter of 5 mm
- length of 6.5 mm

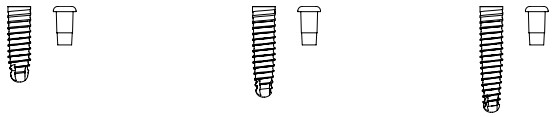
Sterile package

- 1 implant mounted on carrier
- 1 cover cap in biopolymer

Narrow implants **Ø 2,9** mm
connection diameter 2.2 mm colour code: green

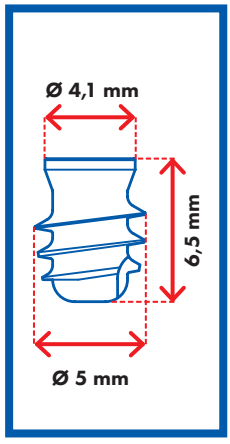


1:1



Ø (mm)	2,9	2,9	2,9
length (mm)	10	12	14
REF	**110-2910-02**	**110-2912-02**	**110-2914-02**

6.5 Short Implant Ø 5 mm
connection diameter 3.0 mm colour code: yellow

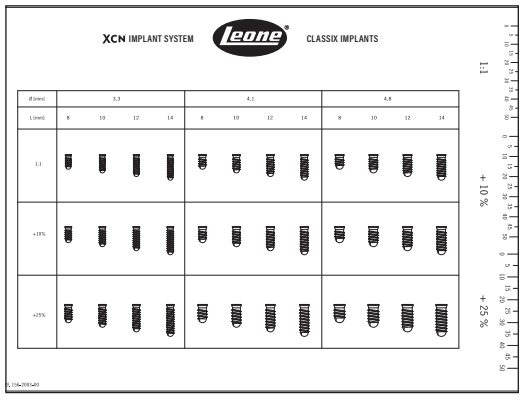


1:1

Ø (mm)	5
length (mm)	6,5
REF	**110-5065-02**

TEMPLATE

To guide the clinician in the choice of the right implant: technical drawings show implants in 3 scales to match possible distortions created by the X-ray unit used for the radiographs:
- actual dimensions 1:1
- dimensions increased by 10%
- dimensions increased by 25%



REF **156-2003-00** Template for CLASSIX implants

REF **156-2003-02** Template for 6.5 SHORT implant

REF **156-2003-04** Template for MAX STABILITY implants

REF **156-2003-05** Template for 2.9 NARROW implants

LEONE IMPLANTS IN THE DIGITAL LIBRARIES

The Leone implant system is included in the libraries of the most popular dental software for implant treatment planning and 3D radiographic diagnostics.

ALL-ON-FOUR SURGICAL GUIDE

- made of stainless steel
- to guide the clinician in the angulation of implants in case of All-on-four or All-on-six techniques
- must be positioned in a hole created with the 2.2 mm pilot drill
- supplied non sterile

Pack content:
1 guide
1 hex key

REF **156-2005-00**

LEONE GUIDED SURGERY

The most widely used 3D planning software programs have 3D files of the Leone system in their libraries, allowing the planning of implant positions based on anatomical conformation and specific prosthetic needs.
Based on the project, it will be possible to realize a CAD-CAM surgical guide that permits the use of the innovative ZERO1 drill*(patented)* for the realization of the osteotomy with maximum operational simplicity, safety and great precision.