VEGA® · VEGA®+

KLOCKNER®

Freedom is not fixed

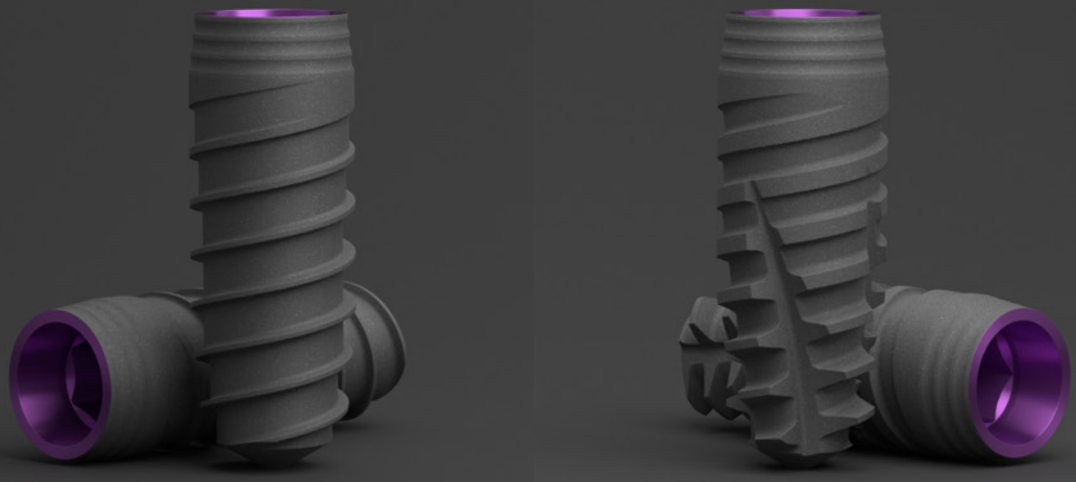
KLOCKNER®

VEGA® · VEGA®+

INTUITIVE, USER-FRIENDLY SYSTEM

The VEGA® family is identified by colour codes. These colour codes are present in the surgical material, implant diameters and the prosthetic system.
Furthermore, KLOCKNER® IMPLANT SYSTEM helps the clinician choose the best prosthetic solution through its prosthetic sets.

VEGA® is the platform switching implant system from KLOCKNER® IMPLANT SYSTEM for crestal level placement. It individualises the treatment of hard and soft tissues.



From left to right: **VEGA®**, **VEGA®+**

VEGA®

AVAILABLE REFERENCES

18 30 08	VEGA® MV IMPLANT Ø3.0 X 08MM
18 30 10	VEGA® MV IMPLANT Ø3.0 X 10MM
18 30 12	VEGA® MV IMPLANT Ø3.0 X 12MM
18 30 14	VEGA® MV IMPLANT Ø3.0 X 14MM
18 35 08	VEGA® NV IMPLANT Ø3.5 X 08MM
18 35 10	VEGA® NV IMPLANT Ø3.5 X 10MM
18 35 12	VEGA® NV IMPLANT Ø3.5 X 12MM
18 35 14	VEGA® NV IMPLANT Ø3.5 X 14MM
18 35 16	VEGA® NV IMPLANT Ø3.5 X 16MM
18 35 18	VEGA® NV IMPLANT Ø3.5 X 18MM
18 40 08	VEGA® RV IMPLANT Ø4.0 X 08MM
18 40 10	VEGA® RV IMPLANT Ø4.0 X 10MM
18 40 12	VEGA® RV IMPLANT Ø4.0 X 12MM
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18 40 18	VEGA® RV IMPLANT Ø4.0 X 18MM
18 45 08	VEGA® RV IMPLANT Ø4.5 X 08MM
18 45 10	VEGA® RV IMPLANT Ø4.5 X 10MM
18 45 12	VEGA® RV IMPLANT Ø4.5 X 12MM
18 45 14	VEGA® RV IMPLANT Ø4.5 X 14MM

VEGA® IMPLANT

DIAMETERS	Ø 3.0 MM	Ø 3.5 MM	Ø 4.0 MM	Ø 4.5 MM

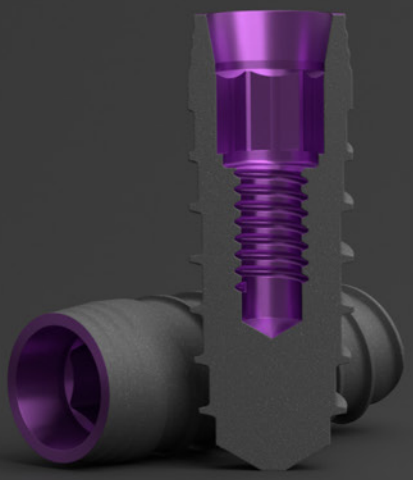
VEGA®+

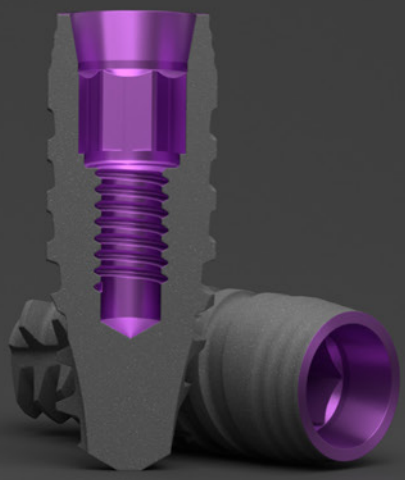
AVAILABLE REFERENCES

19 31 08	VEGA®+ MV IMPLANT Ø3.1 X 08MM
19 31 10	VEGA®+ MV IMPLANT Ø3.1 X 10MM
19 31 12	VEGA®+ MV IMPLANT Ø3.1 X 12MM
19 31 14	VEGA®+ MV IMPLANT Ø3.1 X 14MM
19 36 08	VEGA®+ NV IMPLANT Ø3.6 X 08MM
19 36 10	VEGA®+ NV IMPLANT Ø3.6 X 10MM
19 36 12	VEGA®+ NV IMPLANT Ø3.6 X 12MM
19 36 14	VEGA®+ NV IMPLANT Ø3.6 X 14MM
19 36 16	VEGA®+ NV IMPLANT Ø3.6 X 16MM
19 36 18	VEGA®+ NV IMPLANT Ø3.6 X 18MM
19 41 08	VEGA®+ RV IMPLANT Ø4.1 X 08MM
19 41 10	VEGA®+ RV IMPLANT Ø4.1 X 10MM
19 41 12	VEGA®+ RV IMPLANT Ø4.1 X 12MM
19 41 14	VEGA®+ RV IMPLANT Ø4.1 X 14MM
19 41 16	VEGA®+ RV IMPLANT Ø4.1 X 16MM
19 41 18	VEGA®+ RV IMPLANT Ø4.1 X 18MM
19 46 08	VEGA®+ RV IMPLANT Ø4.6 X 08MM
19 46 10	VEGA®+ RV IMPLANT Ø4.6 X 10MM
19 46 12	VEGA®+ RV IMPLANT Ø4.6 X 12MM
19 46 14	VEGA®+ RV IMPLANT Ø4.6 X 14MM

VEGA®+ IMPLANT

DIAMETERS	Ø 3.1 MM	Ø 3.6 MM	Ø 4.1 MM	Ø 4.6 MM





KLOCKNER®

VEGA®

The VEGA® implant is an implant with dual threading and smooth insertion that makes it possible to tackle compromised anatomical areas thanks to the atraumatic design of the apical area.
Its slightly conical apex and parallel body facilitate its guidance for the osteotomy.

VEGA®+

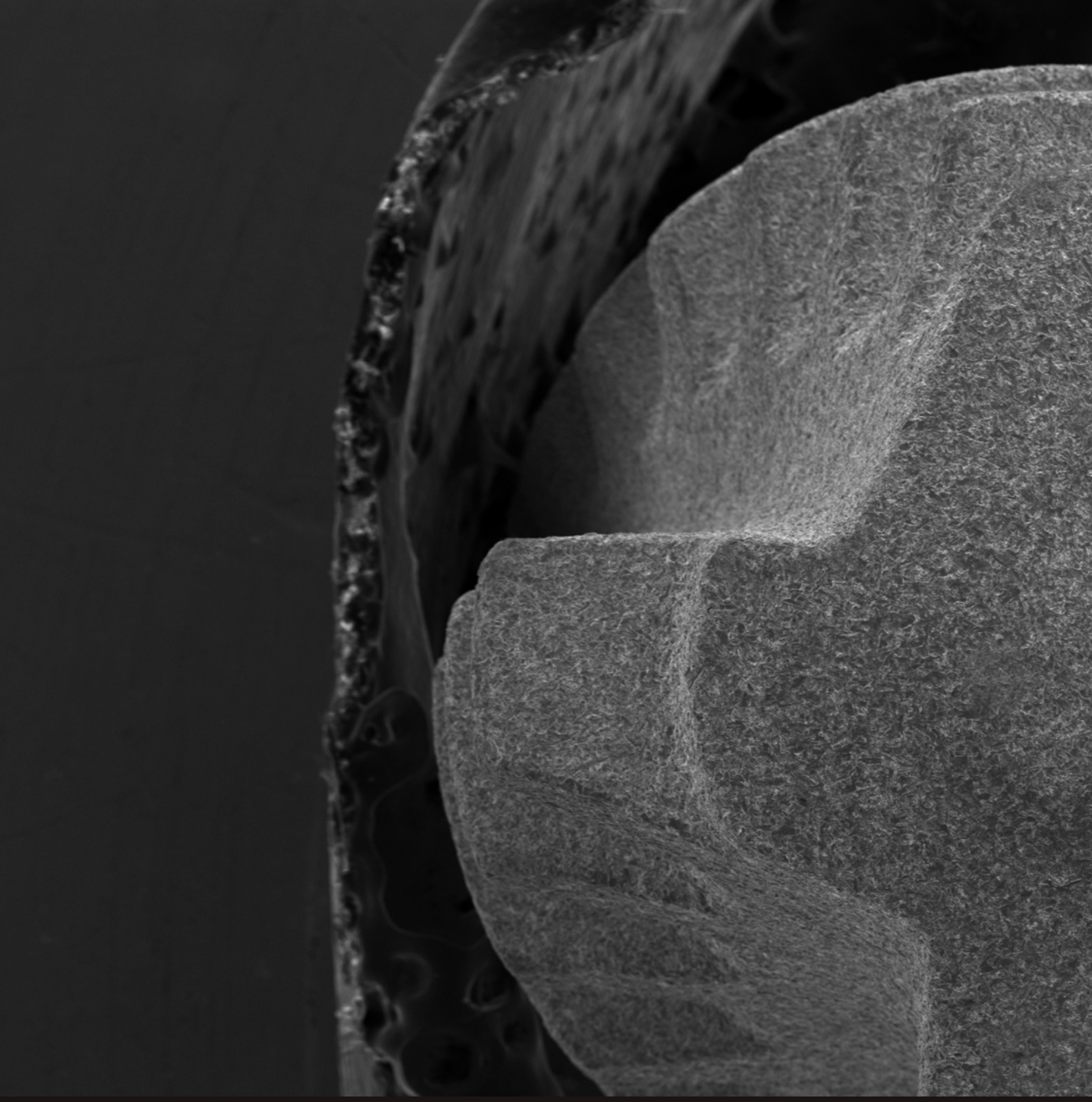
The VEGA®+ implant is a dual threading, self-tapping implant that is easy to insert and makes it possible to reach compromised anatomical areas where the bone density is low.
Its design increases primary stability in post-extraction sockets and under-drilling osteotomy preparations.
The design of the narrow and conical apex facilitates its insertion into the alveolar space, and enables the direction of the implant to be effectively managed.
Its progressive core acts as a compactor, affording a great primary stability.

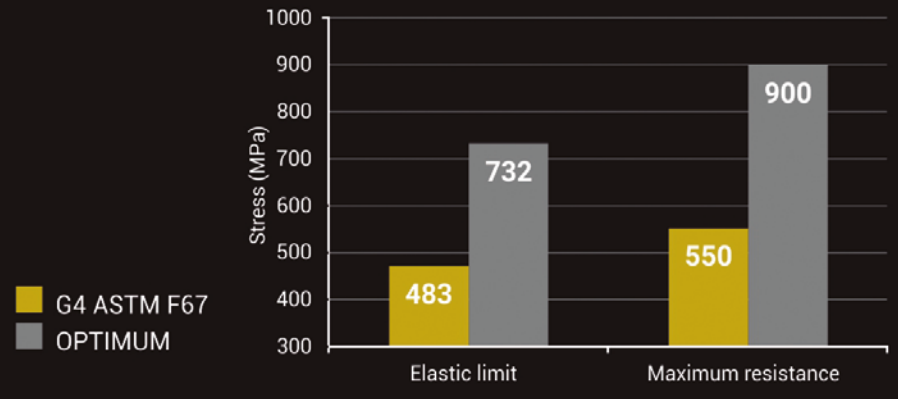
VEGA® · VEGA®+

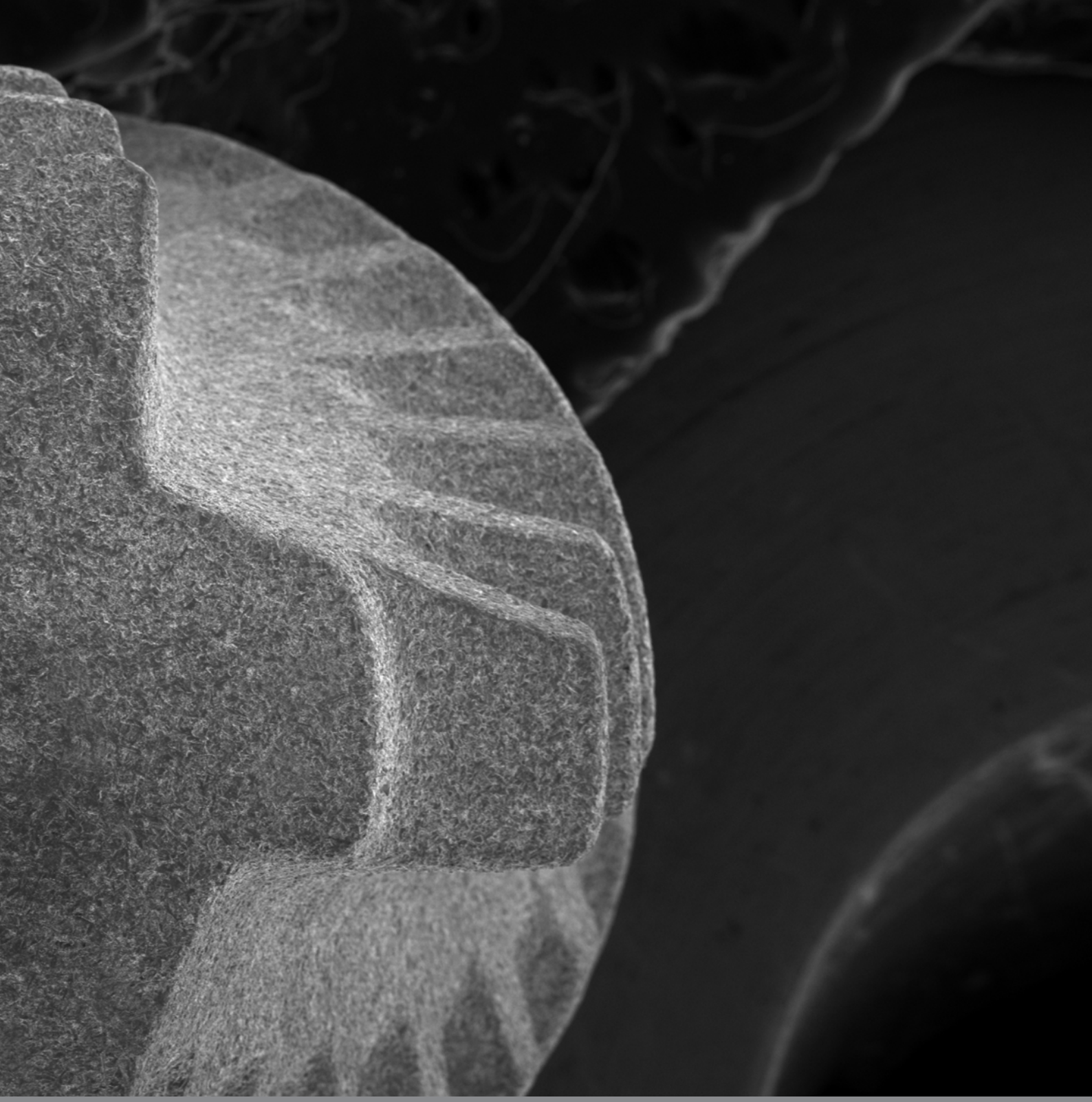
Thanks to their designs and the consideration of the biological principles of the physiological tissues, it is possible to preserve the bone crest level, as well as facilitate a rapid osseointegration due to the behaviour of its surface.

VEGA® MV · VEGA®+ MV 3MM IMPLANT

With the development of VEGA® MV 3.0 mm and 3.1 mm implants, the professional has the possibility of restoring limited dental spaces in anterior areas, with all the mechanical guarantees.




G4 ASTM F67
OPTIMUM
Stress (MPa)
1000
900
800
700
600
500
400
300
483
732
550
900
Elastic limit
Maximum resistance



OPTiMUM®

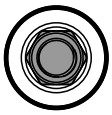
New generation titanium

Development of the new titanium has made it possible to increase the elastic limit, with a 64% improvement in mechanical properties across the entire VEGA® implant range. Thanks to OPTIMUM®, we have the Micro VEGA®, the 3 mm implant indicated for the restoration of crowns with extremely narrow interdental spaces, and the Narrow VEGA®, the 3.5 mm implant designed to be used in any clinical situation.

VEGA® · VEGA®+

The hexagonal site, located in the lower part of the cone, was designed to bestow the following properties to the VEGA® system:

- Facilitates clinical handling and the correct positioning of the prosthetic components thanks to its good tactile sensation.
- Optimises the accuracy of the fit between the implant's internal connection hexagon and the hexagon of the abutments.
- Reduction of the rotational movements between the implant and the prosthetic components.

IMPLANT	Ø 3.0 / 3.1 MM	Ø 3.5 / 3.6 MM	Ø 4.0 / 4.1 MM	Ø 4.5 / 4.6 MM
				
BETWEEN FACES	**1.85 MM**	**2.05 MM**	**2.35 MM**	**2.35 MM**

VEGA® · VEGA®+

The conical design of the implant in its most coronal portion enables the distribution of load to the adjacent bone tissue and helps maintain the cortical bone.
The three rings reduce stress in the crestal area and prevent bone loss when loads are produced by the implants.

IMPLANT	Ø 3.0 / 3.1 MM	Ø 3.5 / 3.6 MM	Ø 4.0 / 4.1 MM	Ø 4.5 / 4.6 MM
				
COLLAR HEIGHT	1.2 MM	1.3 MM	1.3 MM	1.3 MM

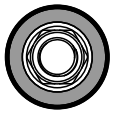
VEGA® · VEGA®+

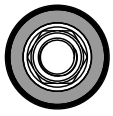
The implant's internal cone is designed with an angulation of 10º and a 1.1 mm length that:

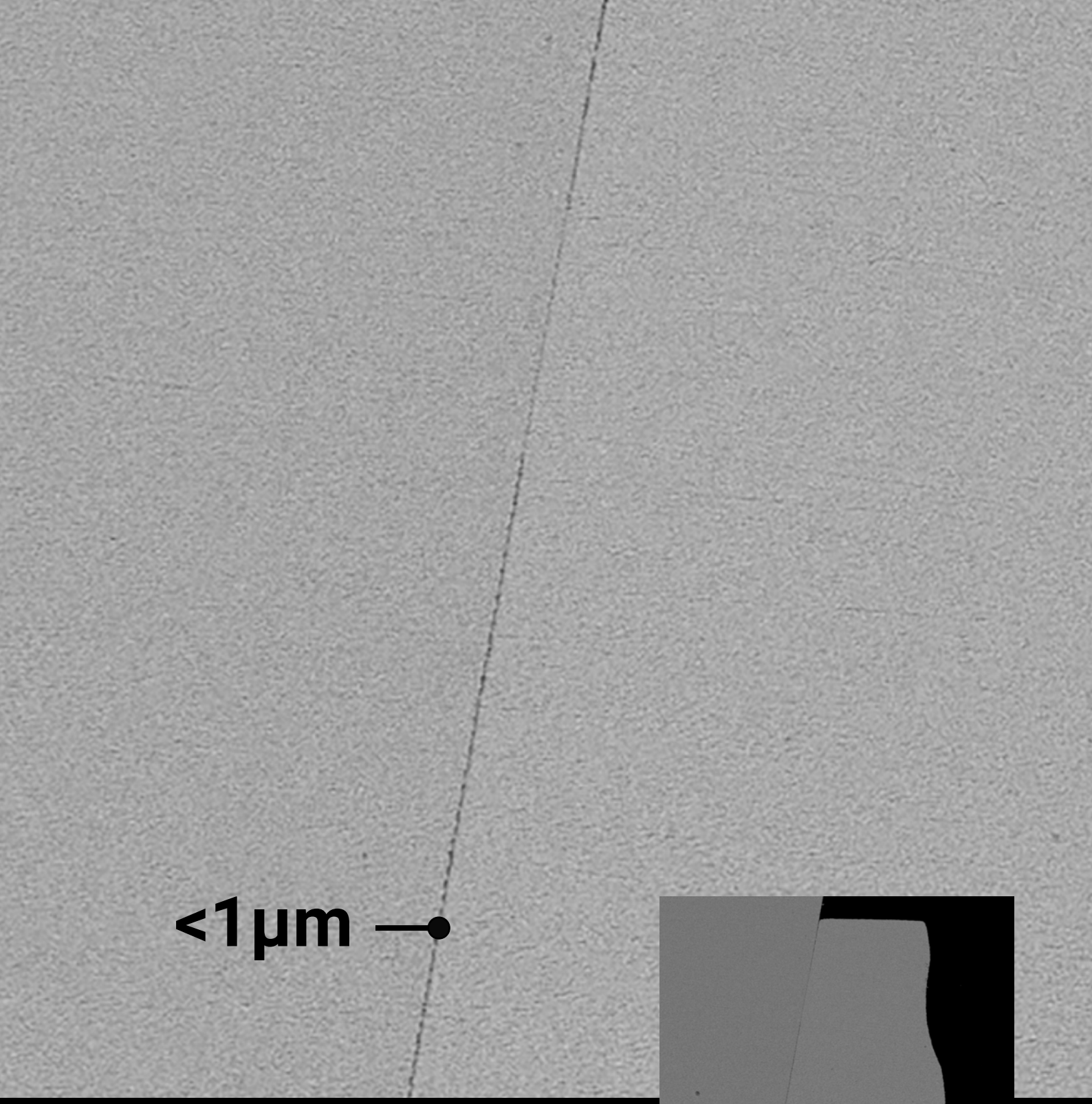
- Optimises the fit between the implant's cone and the cone of the prosthetic abutment.
- Increases mechanical stability and homogeneously distributes the loads.
- Provides the implant-abutment with a high resistance and stability compared to the micro-movements.
- Facilitates the insertion and guidance of the different abutments by the professional.
- The hermetic seal lower than one-micron prevents bacterial colonisation inside the implant.

VEGA® · VEGA®+

Its crest level design is intended to generate the biological seal according to the Platform Switching principles, preventing bone reabsorption caused by bacterial filtration through the connection gap.

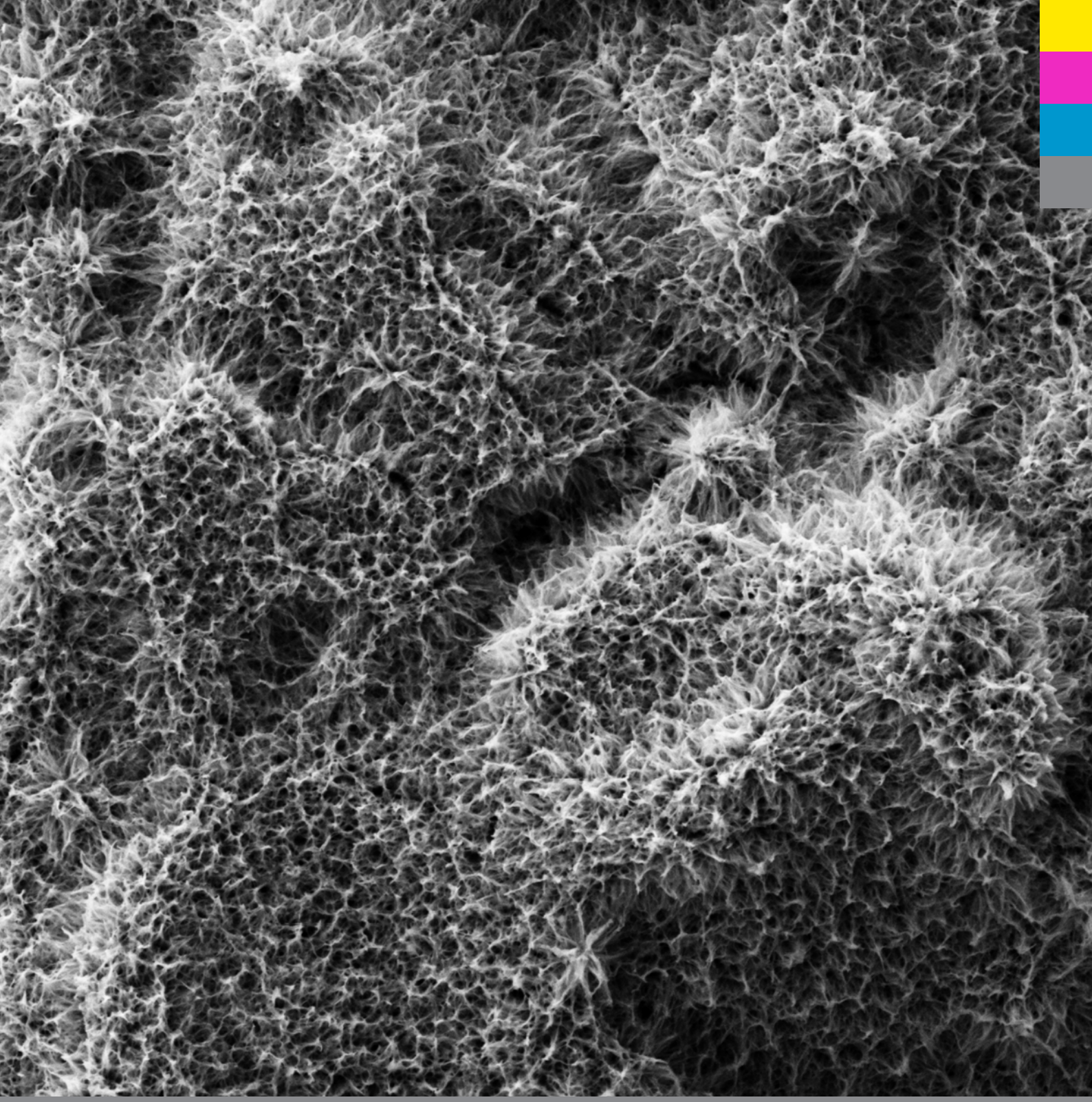
VEGA® IMPLANT	Ø 3.0 MM	Ø 3.5 MM	Ø 4.0 MM	Ø 4.5 MM
				
PLATFORM	**0.25 MM**	**0.30 MM**	**0.35 MM**	**0.60 MM**

VEGA®+ IMPLANT	Ø 3.1 MM	Ø 3.6 MM	Ø 4.1 MM	Ø 4.6 MM
				
PLATFORM	**0.30 MM**	**0.30 MM**	**0.35 MM**	**0.60 MM**



IMPLANT-PROSTHESIS COMPLETE SEAL

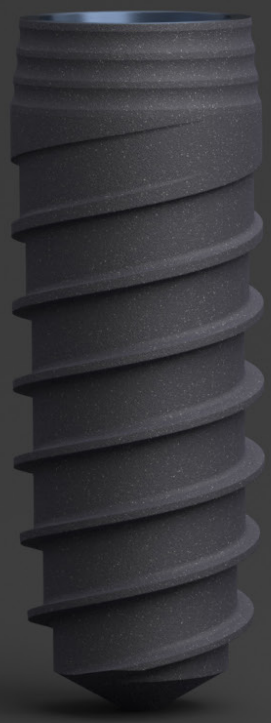
Once the abutment is tightened, the VEGA® implant connection achieves a hermetic seal with spaces smaller than 1µm that prevent bacterial colonisation.

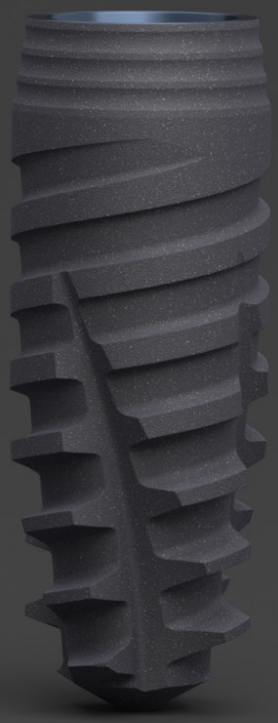


CONTACTi®

The surface the bone was waiting for

After more than 15 years of research, the KLOCKNER® IMPLANT SYSTEM revolutionary surface has arrived, accelerating biological stability and enabling the implant's final load after 4 weeks if an osseointegration assessment is performed. It is the ideal solution for immediate/early load treatments and at-risk patients.





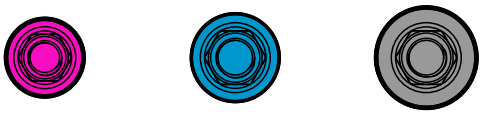
KLOCKNER®

VEGA®

AVAILABLE REFERENCES

18 35 08 C-TI	VEGA® NV CONTACTI® IMPLANT Ø3.5 X 08MM
18 35 10 C-TI	VEGA® NV CONTACTI® IMPLANT Ø3.5 X 10MM
18 35 12 C-TI	VEGA® NV CONTACTI® IMPLANT Ø3.5 X 12MM
18 35 14 C-TI	VEGA® NV CONTACTI® IMPLANT Ø3.5 X 14MM
18 35 16 C-TI	VEGA® NV CONTACTI® IMPLANT Ø3.5 X 16MM
18 35 18 C-TI	VEGA® NV CONTACTI® IMPLANT Ø3.5 X 18MM
18 40 08 C-TI	VEGA® RV CONTACTI® IMPLANT Ø4.0 X 08MM
18 40 10 C-TI	VEGA® RV CONTACTI® IMPLANT Ø4.0 X 10MM
18 40 12 C-TI	VEGA® RV CONTACTI® IMPLANT Ø4.0 X 12MM
18 40 14 C-TI	VEGA® RV CONTACTI® IMPLANT Ø4.0 X 14MM
18 40 16 C-TI	VEGA® RV CONTACTI® IMPLANT Ø4.0 X 16MM
18 40 18 C-TI	VEGA® RV CONTACTI® IMPLANT Ø4.0 X 18MM
18 45 08 C-TI	VEGA® RV CONTACTI® IMPLANT Ø4.5 X 08MM
18 45 10 C-TI	VEGA® RV CONTACTI® IMPLANT Ø4.5 X 10MM
18 45 12 C-TI	VEGA® RV CONTACTI® IMPLANT Ø4.5 X 12MM
18 45 14 C-TI	VEGA® RV CONTACTI® IMPLANT Ø4.5 X 14MM

VEGA® IMPLANTS



DIAMETERS	**Ø 3.5 MM**	**Ø 4.0 MM**	**Ø 4.5 MM**

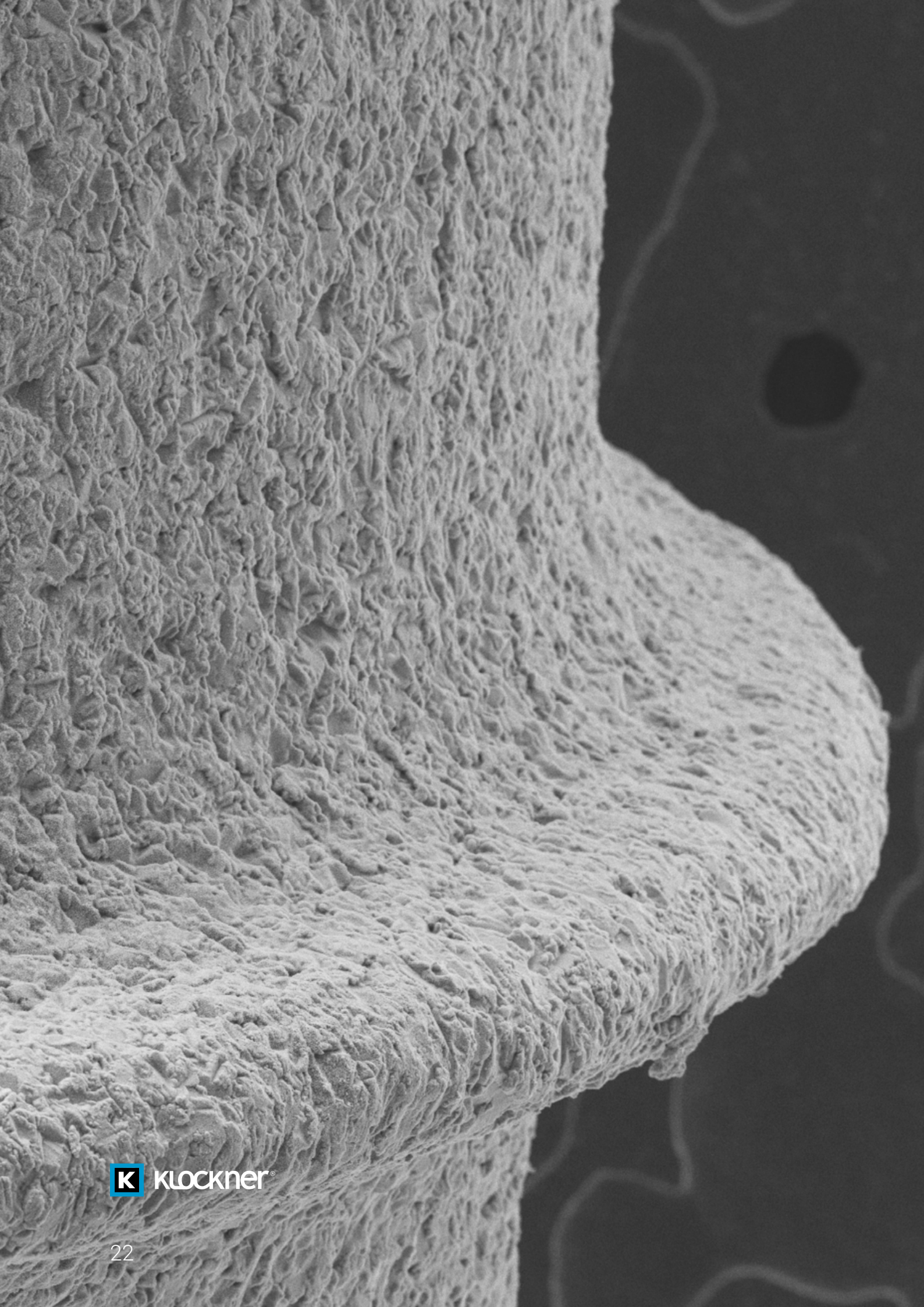
VEGA®+

AVAILABLE REFERENCES

19 36 08 C-TI	VEGA®+ NV CONTACTI® IMPLANT Ø3.6 X 08MM
19 36 10 C-TI	VEGA®+ NV CONTACTI® IMPLANT Ø3.6 X 10MM
19 36 12 C-TI	VEGA®+ NV CONTACTI® IMPLANT Ø3.6 X 12MM
19 36 14 C-TI	VEGA®+ NV CONTACTI® IMPLANT Ø3.6 X 14MM
19 36 16 C-TI	VEGA®+ NV CONTACTI® IMPLANT Ø3.6 X 16MM
19 36 18 C-TI	VEGA®+ NV CONTACTI® IMPLANT Ø3.6 X 18MM
19 41 08 C-TI	VEGA®+ RV CONTACTI® IMPLANT Ø4.1 X 08MM
19 41 10 C-TI	VEGA®+ RV CONTACTI® IMPLANT Ø4.1 X 10MM
19 41 12 C-TI	VEGA®+ RV CONTACTI® IMPLANT Ø4.1 X 12MM
19 41 14 C-TI	VEGA®+ RV CONTACTI® IMPLANT Ø4.1 X 14MM
19 41 16 C-TI	VEGA®+ RV CONTACTI® IMPLANT Ø4.1 X 16MM
19 41 18 C-TI	VEGA®+ RV CONTACTI® IMPLANT Ø4.1 X 18MM
19 46 08 C-TI	VEGA®+ RV CONTACTI® IMPLANT Ø4.6 X 08MM
19 46 10 C-TI	VEGA®+ RV CONTACTI® IMPLANT Ø4.6 X 10MM
19 46 12 C-TI	VEGA®+ RV CONTACTI® IMPLANT Ø4.6 X 12MM
19 46 14 C-TI	VEGA®+ RV CONTACTI® IMPLANT Ø4.6 X 14MM

VEGA®+ IMPLANTS

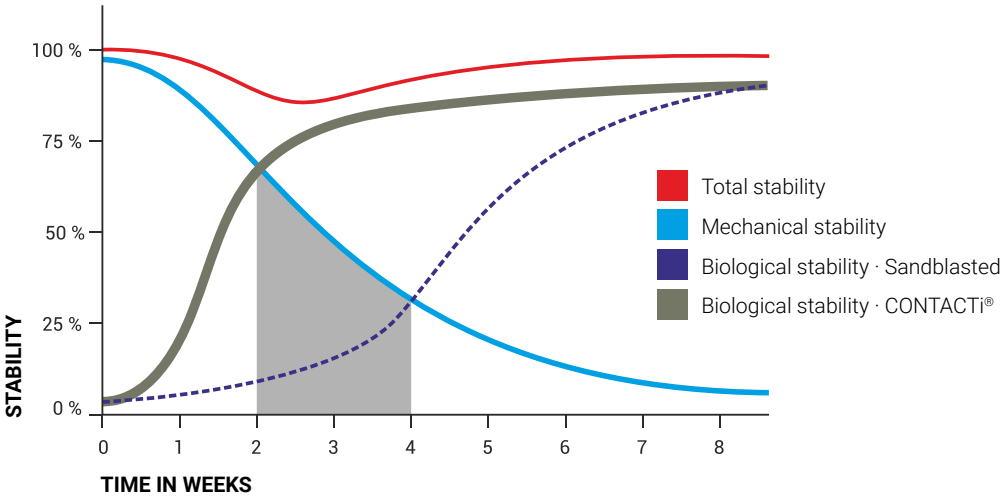
DIAMETERS	**Ø 3.6 MM**	**Ø 4.1 MM**	**Ø 4.6 MM**



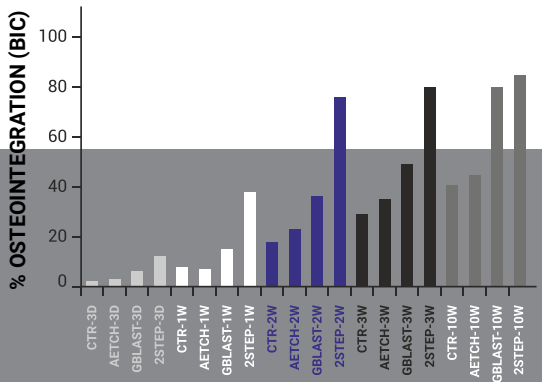
CONTACTi®

The new surface that accelerates biological stability

CONTACTi® has an excellent wettability and a highly negative load, which gives it a selective capacity for the adsorption of proteins, essentially pre-osteoblasts, which favour bone formation, inhibiting the adsorption of soft tissue precursor proteins.



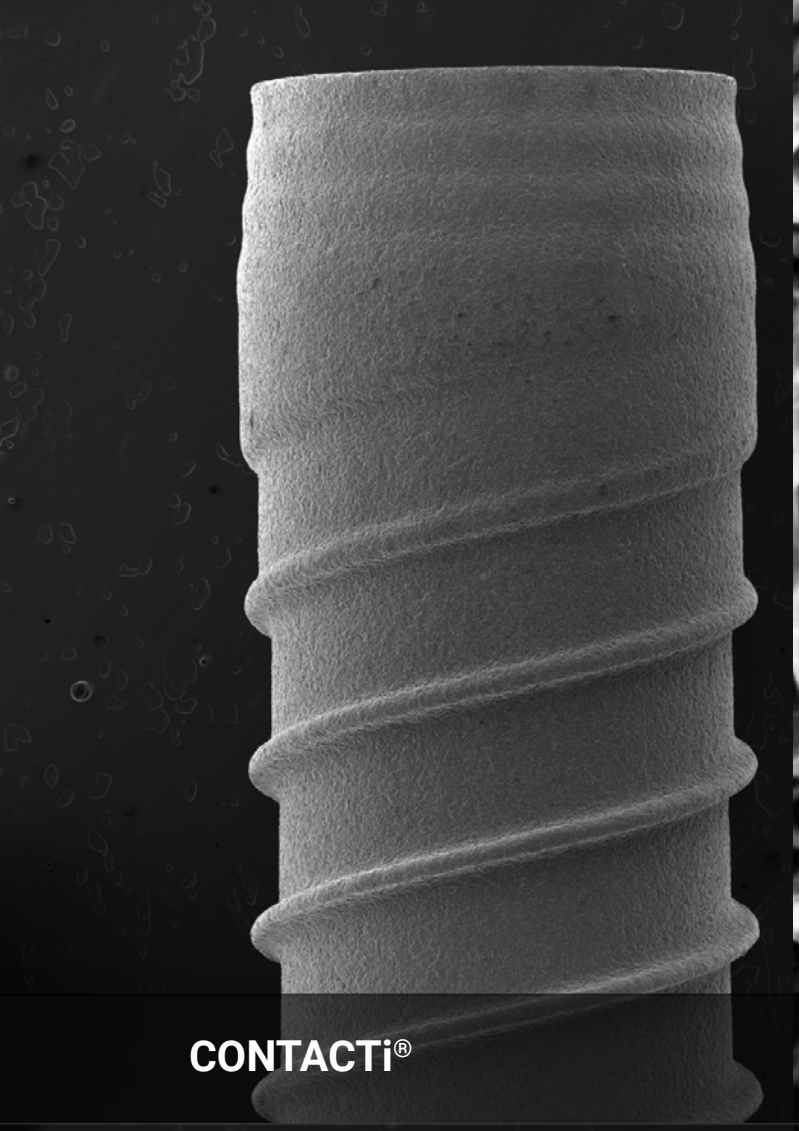
The decreasing stability curve is removed once early healing is stimulated

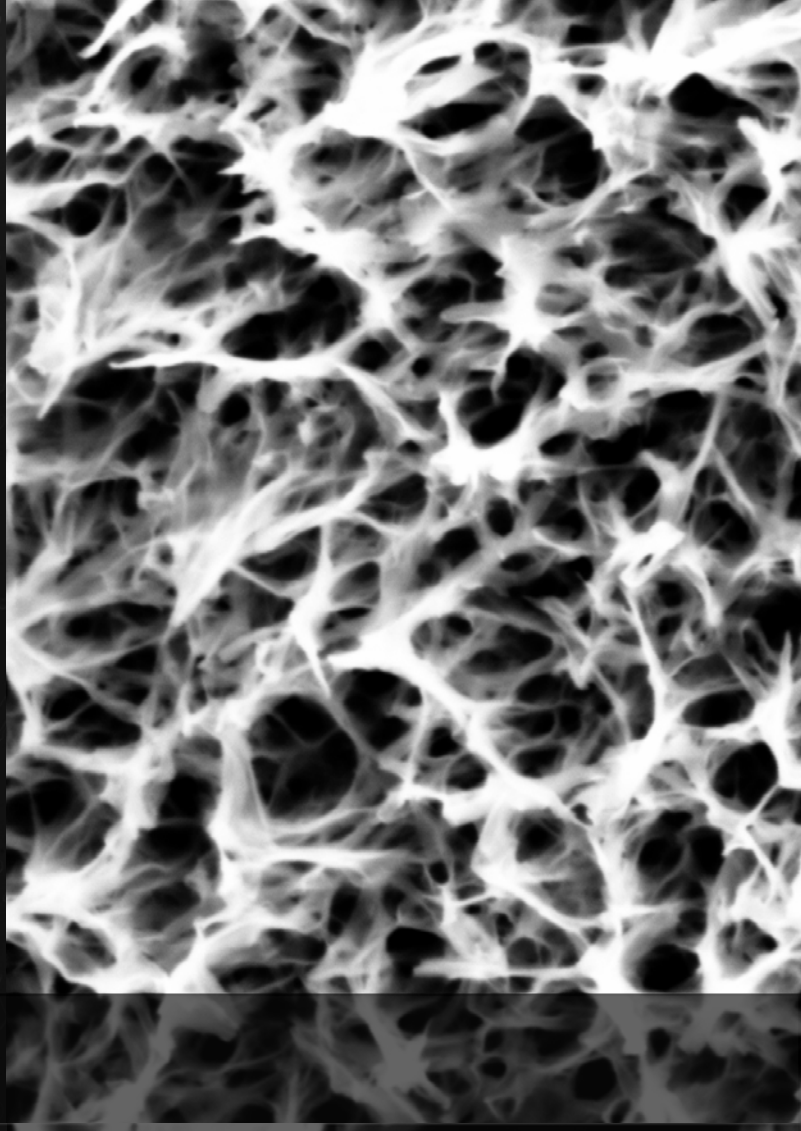


CTR	Control
AETCH	Acid attack
GBLAST	Sandblasted
2STEP	CONTACTi®
D	Days
W	Weeks

THE CHEMICAL BOND GUARANTEES THE MAXIMUM BONDING AND INTEGRITY OF THE APATITE LAYER, WHICH HAS THE SAME MINERAL CONTENT AS THE BONE.

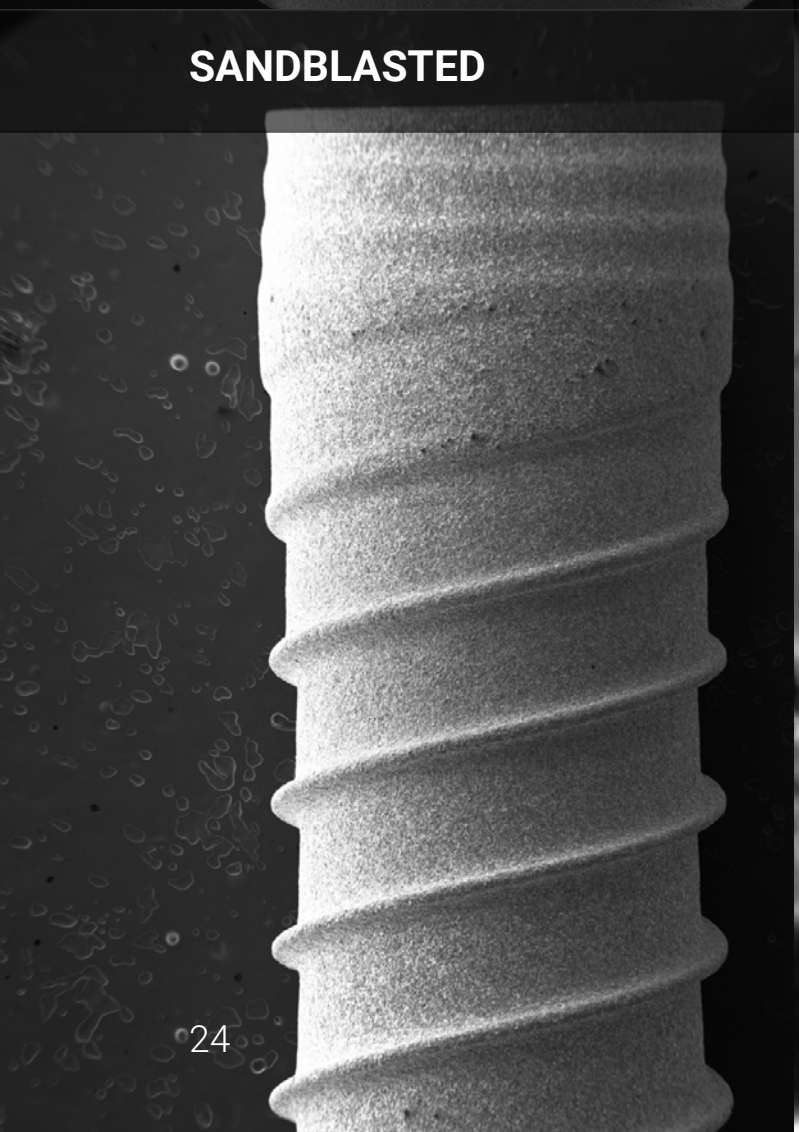
F J. Gil et al. BIOMIMETIC TREATMENT ON DENTAL IMPLANTS FOR SHORT-TERM BONE REGENERATION. Clinical Oral Investigations 18 (1) (2014) 59-66.

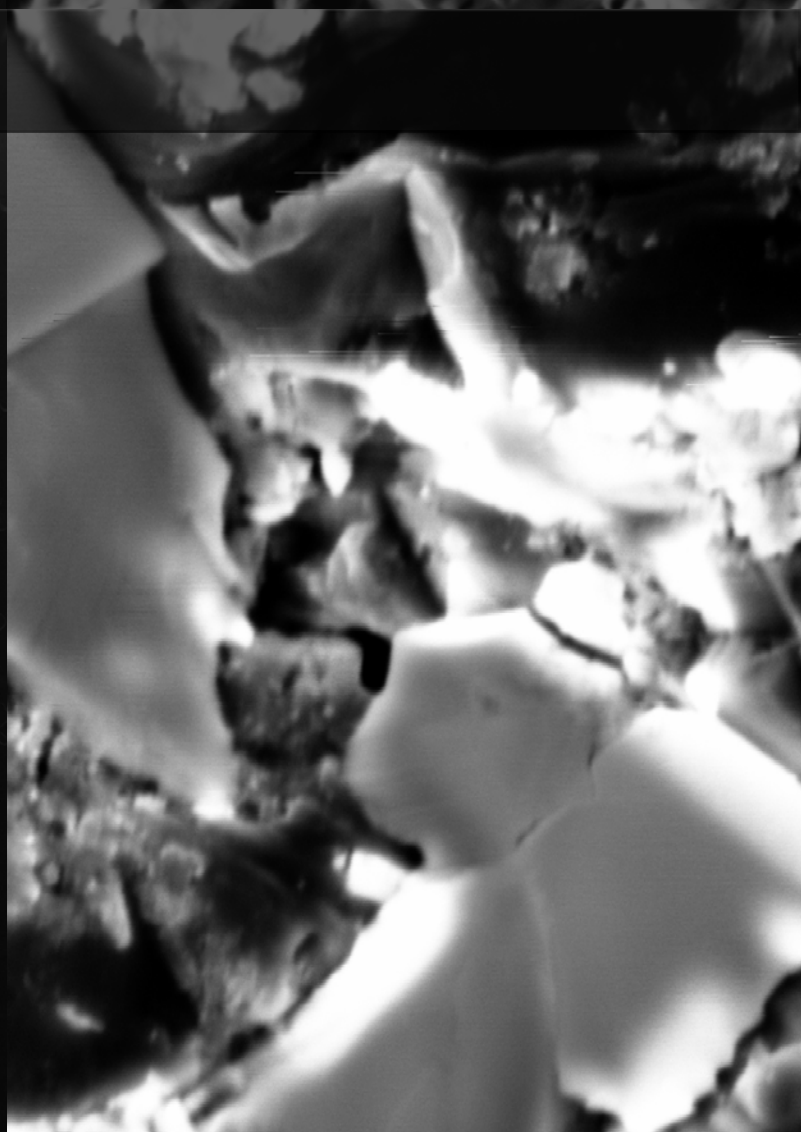




CONTACTi®

SANDBLASTED





Sa* 1,5 ±0.1 µm

The topography of the dental implant presents an Sa of 1.5 ±0.1 µm and is optimised to minimise any potential anchoring of bacteria.

The thermochemical treatment used to obtain CONTACTi® creates Sodium Titanate that spontaneously forms an apatite layer when it comes into contact with blood, without the need for osteoblastic activity. Bone formation is immediate after the implant placement. CONTACTi® induces bone formation.
CONTACTi® reaches levels of bone-implant contact above 75% during the first 2 weeks and above 80% by the third week, enabling the final implant load in the 4th week following placement of the implant if an osseointegration assessment is performed.

*Sa · Average value of the three-dimensional distance between the peaks and valleys of a surface.

CONTACTi® is designed to obtain the best success rates in all clinical cases

Faster new bone formation leads to a greater biological stability and more predictable osseointegration. Therefore, ContacTi® is particularly indicated for cases of immediate and early loads, providing confidence during critical cases with at-risk patients and reducing the limitations of current implantology.

GENERAL CLINICAL OBSERVATIONS
All the clinical recommendations and warnings described are general guidelines. The professional must apply his or her knowledge and judge whether these general guidelines are appropriate for each case.
Physiological and anatomic conditions may have a negative effect on dental implant efficacy.

WARNINGS
All medical devices sold by Soadco S.L. are only for use by professionals who are trained, qualified and certified in the field of odontology. Depending on the medical interventions to be performed, the professional must have the specialisation(s) necessary to perform the diagnosis, planning, surgical procedure and prosthetic restoration.

Each sterile device has a label with its expiry date (5 years after performing the sterilization process). The service life of the dental implant depends on many factors, including the patient's oral hygiene and the preventive control carried out periodically by the dentist.

KLOCKNER® implants are part of a patented system that must only be used with original instruments and components.
The use of any non-KLOCKNER® components will exempt Soadco, S.L. from any type of compensation and/or warranty obligation.

The device specifications alone do not guarantee the proper use of the device. It is advisable to first seek advice from professionals with experience in using the system, or to attend the demonstrations and courses that KLOCKNER® runs regularly, obliging professional users to keep up-to-date with the current state of the technology and its applications.

The handling and use of KLOCKNER® devices are out of the control of Soadco, S.L. and are the user's responsibility. Therefore, Soadco, S.L. is exempt from any civil liability related to any damage caused by the misuse of the device.

Devices that are deemed to be hazardous (contaminated, potentially piercing or sharp) must be disposed of according to the current requirements for handling said devices.

The packaging of the medical devices must be disposed of according to the current environmental and regulatory requirements in each country.

Details concerning the instructions for handling and using the devices are available to all users in the information leaflets and prosthetic and surgical specifications, which can be found at www.klocknerimplantsystem.com, or requested from the corresponding national representative.

In compliance with EC and FDA standards, nor will the company be responsible for the return of any of its device(s) that have previously been handled.

To ensure the correct traceability of the implant, the packaging is supplied with labels on which the reference, batch number and expiry date are indicated, and which must be saved in the appropriate patient record.

The safety and compatibility of the KLOCKNER® system in the MRI environment has not been evaluated. Neither its heating up, migration nor image artefacts have been tested in said environment. The safety of the KLOCKNER® system in the MRI environment is unknown. The examination of a patient fitted with this device may result in injury to the patient.

Depending on the type of intervention, the professional must have the specialisation(s) necessary to perform the diagnosis, planning, surgical procedure and prosthetic restoration. KLOCKNER® devices are part of an integrated system of endosseous dental implants for which complimentary devices exist for performing the dental treatment

Due to the diversity of implant lengths and diameters, and the fact that the chewing load capacity varies greatly, it is advisable when using multiple fixed prostheses to fit the maximum number of fixations, maintaining a distance of between 2 and 3 mm between implants. In general, it is considered that the total height of the prosthesis should not exceed the length of the implant.

In those cases in which a removable prosthetic is prepared, it is recommended to use 4 to 6 implants.

WARNING / PRECAUTIONS
Do not use implants with a length of 6 mm in single-unit restorations or as a support and/or retention for mucosa-supported prostheses with anchoring systems that use retentive buttons, balls, locators or ball joints.
Excess compression of the receiving bone can impede implant osseointegration.
It is recommended NOT to exceed the recommended insertion torque, to prevent plastic deformations in the implant connection.

LIST OF REFERENCES

VEGA®

IMPLANTS

18 30 08	VEGA® MV IMPLANT Ø3.0 X 08MM
18 30 10	VEGA® MV IMPLANT Ø3.0 X 10MM
18 30 12	VEGA® MV IMPLANT Ø3.0 X 12MM
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18 35 18	VEGA® NV IMPLANT Ø3.5 X 18MM
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18 40 14	VEGA® RV IMPLANT Ø4.0 X 14MM
18 40 16	VEGA® RV IMPLANT Ø4.0 X 16MM
18 40 18	VEGA® RV IMPLANT Ø4.0 X 18MM
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18 45 14	VEGA® RV IMPLANT Ø4.5 X 14MM

VEGA®+

IMPLANTS

19 31 08	VEGA®+ MV IMPLANT Ø3.1 X 08MM
19 31 10	VEGA®+ MV IMPLANT Ø3.1 X 10MM
19 31 12	VEGA®+ MV IMPLANT Ø3.1 X 12MM
19 31 14	VEGA®+ MV IMPLANT Ø3.1 X 14MM
19 36 08	VEGA®+ NV IMPLANT Ø3.6 X 08MM
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19 36 14	VEGA®+ NV IMPLANT Ø3.6 X 14MM
19 36 16	VEGA®+ NV IMPLANT Ø3.6 X 16MM
19 36 18	VEGA®+ NV IMPLANT Ø3.6 X 18MM
19 41 08	VEGA®+ RV IMPLANT Ø4.1 X 08MM
19 41 10	VEGA®+ RV IMPLANT Ø4.1 X 10MM
19 41 12	VEGA®+ RV IMPLANT Ø4.1 X 12MM
19 41 14	VEGA®+ RV IMPLANT Ø4.1 X 14MM
19 41 16	VEGA®+ RV IMPLANT Ø4.1 X 16MM
19 41 18	VEGA®+ RV IMPLANT Ø4.1 X 18MM
19 46 08	VEGA®+ RV IMPLANT Ø4.6 X 08MM
19 46 10	VEGA®+ RV IMPLANT Ø4.6 X 10MM
19 46 12	VEGA®+ RV IMPLANT Ø4.6 X 12MM
19 46 14	VEGA®+ RV IMPLANT Ø4.6 X 14MM

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IMPLANTS

18 35 08 C-TI	VEGA® NV CONTACTI® IMPLANT Ø3.5 X 08MM
18 35 10 C-TI	VEGA® NV CONTACTI® IMPLANT Ø3.5 X 10MM
18 35 12 C-TI	VEGA® NV CONTACTI® IMPLANT Ø3.5 X 12MM
18 35 14 C-TI	VEGA® NV CONTACTI® IMPLANT Ø3.5 X 14MM
18 35 16 C-TI	VEGA® NV CONTACTI® IMPLANT Ø3.5 X 16MM
18 35 18 C-TI	VEGA® NV CONTACTI® IMPLANT Ø3.5 X 18MM
18 40 08 C-TI	VEGA® RV CONTACTI® IMPLANT Ø4.0 X 08MM
18 40 10 C-TI	VEGA® RV CONTACTI® IMPLANT Ø4.0 X 10MM
18 40 12 C-TI	VEGA® RV CONTACTI® IMPLANT Ø4.0 X 12MM
18 40 14 C-TI	VEGA® RV CONTACTI® IMPLANT Ø4.0 X 14MM
18 40 16 C-TI	VEGA® RV CONTACTI® IMPLANT Ø4.0 X 16MM
18 40 18 C-TI	VEGA® RV CONTACTI® IMPLANT Ø4.0 X 18MM
18 45 08 C-TI	VEGA® RV CONTACTI® IMPLANT Ø4.5 X 08MM
18 45 10 C-TI	VEGA® RV CONTACTI® IMPLANT Ø4.5 X 10MM
18 45 12 C-TI	VEGA® RV CONTACTI® IMPLANT Ø4.5 X 12MM
18 45 14 C-TI	VEGA® RV CONTACTI® IMPLANT Ø4.5 X 14MM

VEGA®+ CONTACTi®

IMPLANTS

19 36 08 C-TI	VEGA®+ NV CONTACTI® IMPLANT Ø3.6 X 08MM
19 36 10 C-TI	VEGA®+ NV CONTACTI® IMPLANT Ø3.6 X 10MM
19 36 12 C-TI	VEGA®+ NV CONTACTI® IMPLANT Ø3.6 X 12MM
19 36 14 C-TI	VEGA®+ NV CONTACTI® IMPLANT Ø3.6 X 14MM
19 36 16 C-TI	VEGA®+ NV CONTACTI® IMPLANT Ø3.6 X 16MM
19 36 18 C-TI	VEGA®+ NV CONTACTI® IMPLANT Ø3.6 X 18MM
19 41 08 C-TI	VEGA®+ RV CONTACTI® IMPLANT Ø4.1 X 08MM
19 41 10 C-TI	VEGA®+ RV CONTACTI® IMPLANT Ø4.1 X 10MM
19 41 12 C-TI	VEGA®+ RV CONTACTI® IMPLANT Ø4.1 X 12MM
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19 41 18 C-TI	VEGA®+ RV CONTACTI® IMPLANT Ø4.1 X 18MM
19 46 08 C-TI	VEGA®+ RV CONTACTI® IMPLANT Ø4.6 X 08MM
19 46 10 C-TI	VEGA®+ RV CONTACTI® IMPLANT Ø4.6 X 10MM
19 46 12 C-TI	VEGA®+ RV CONTACTI® IMPLANT Ø4.6 X 12MM
19 46 14 C-TI	VEGA®+ RV CONTACTI® IMPLANT Ø4.6 X 14MM


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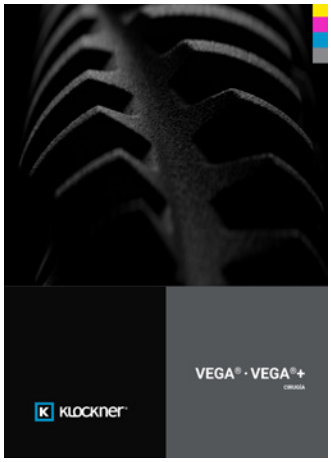

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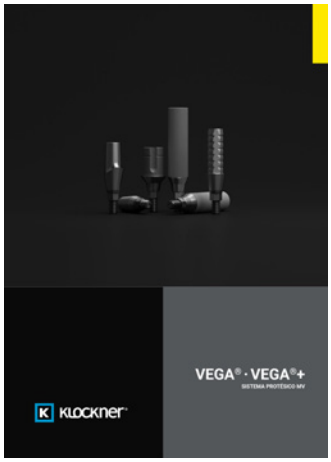

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