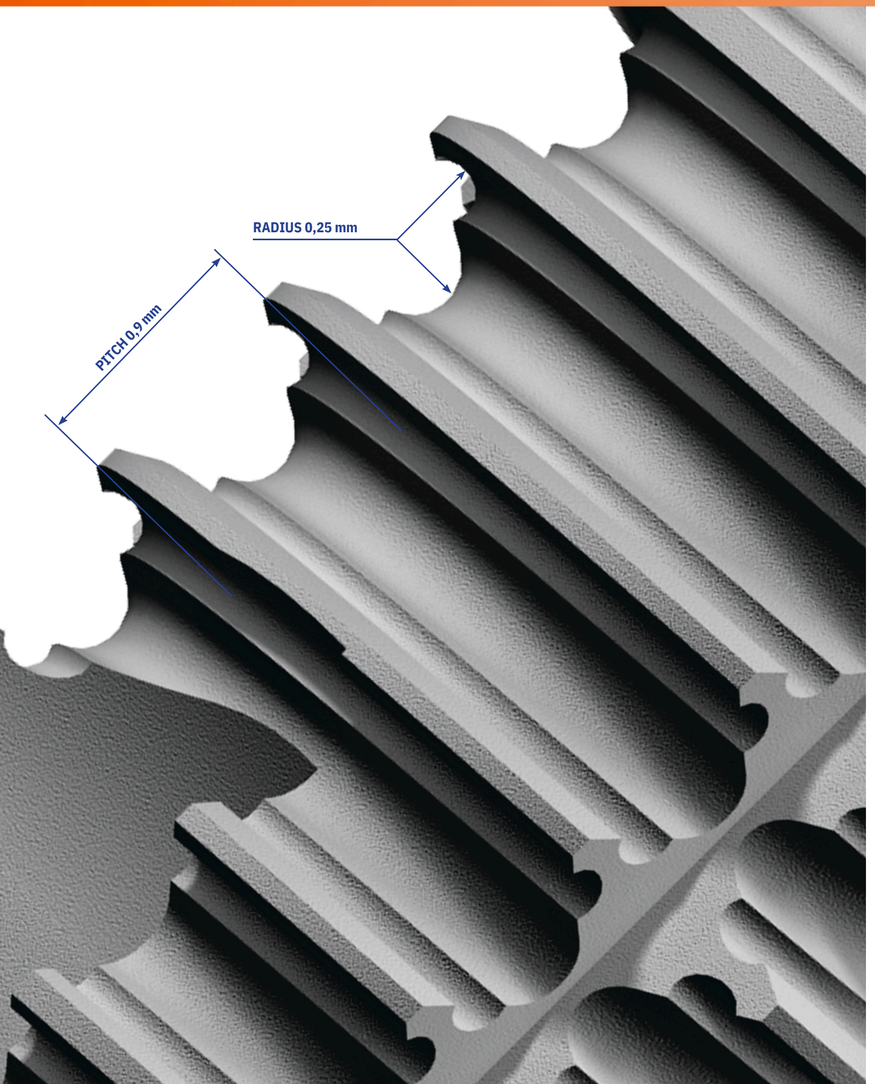


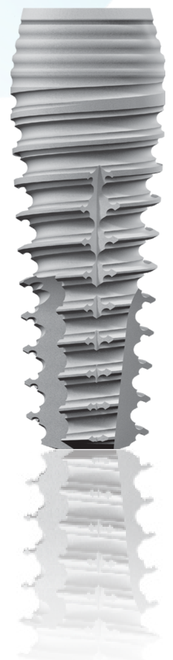
Conical Grade

CONICALGRADE®
The **Bio** Mechanical **Implant**

Implant line

Conical grade® is a biomechanical dental implant, entirely made of Titanium Gr5. The design of its cortical collar allows for a perfect distribution of chewing loads. The spiral is produced with NEST-SHAPE® morphology, a geometry that becomes crucial during the patient's bone healing phase.

- **Uses Nest Shape® spiral (Ornaghi patent)**
- **4° conometric connection at the apex with anti-rotation and prosthetic screw**
- **Bioactive SLA surface**
- **Guided surgery**
- **Compatible with our Prasa prosthetic solution**
- **Prosthetic components for digital workflows**
- **The conical closure is sized to allow for the application of the PLATFORM SWITCHING concept**



omaghi

Bio Matrix
FOR DENTAL SOLUTIONS

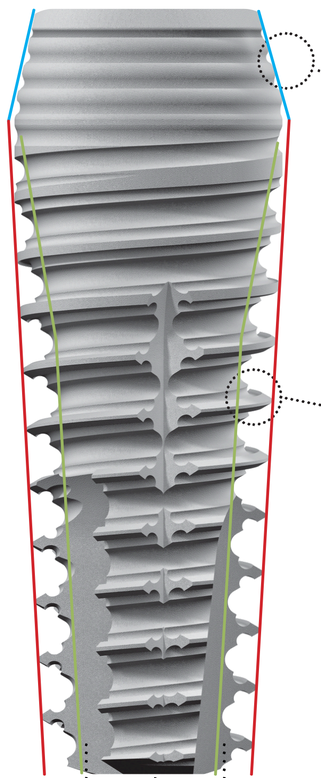
CONICALGRADE®

The **Bio** Mechanical **Implant**

The external diameter has an inclination of 6° at the vertices

The diameter of the core has an inclination of 6° at the vertices

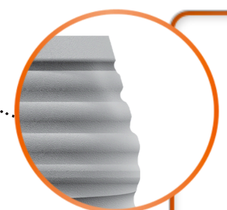
Tapered neck





CONNECTION

The connection of the **Conical Grade** dental implant is unique for the entire implant line and is an internal hexagon with a double cone connection, the taper is 4° at the vertex. The conical closure has a size that allows the application of the con- cept of PLATFORM SWITCHING.



CORTICAL COLLAR

In the coronal area of the implant, the recesses of the cortical collar are sized to ensure that the implant is properly distributed of masticatory loads. The cortical recesses are located along the tapered part of the implant collar and have a rounded morphology.



NEST-SHAPE®

The geometry of the coil is important in the bone healing phase: the double concocivities of 25 microns on the entire coil and on the body of the implant considerably extend the contact surface with the bone, thus influencing the primary distribution of the bone itself in the newly formed bone.



MACRO GROOVE

Conical Grade implants are designed with three Macro Grooves. During the insertion of the fixture, the cutting macro grooves collect portions of bone and preserve it.

Bio Matrix
FOR DENTAL SOLUTIONS

NEST-SHAPE®

The main characteristics of the coil, thanks to the new **Nest-Shape®** morphology, highlight very relevant biological and biomechanical functions.

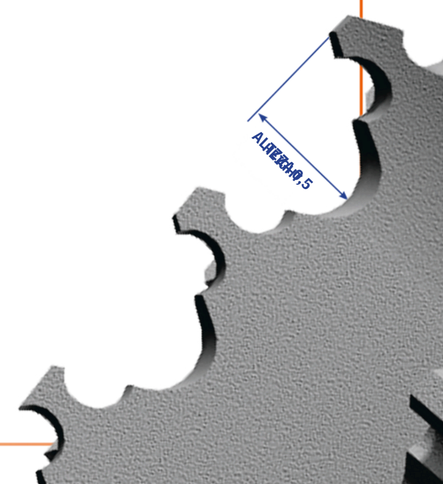
The geometry of the coil is important in the bone healing phase: the double concavities of 25 microns on the entire coil and on the body of the implant greatly extend the surface of contact with the bone in such a way as to influence the primary distribution of the bone itself in new formation. In fact, the first osteoblasts, vessels and bony trabeculae are concentrated primarily in the concavities of the coils and only later, 30 days after the insertion of the implant, can a homogeneous distribu- tion on the implant surface be observed.

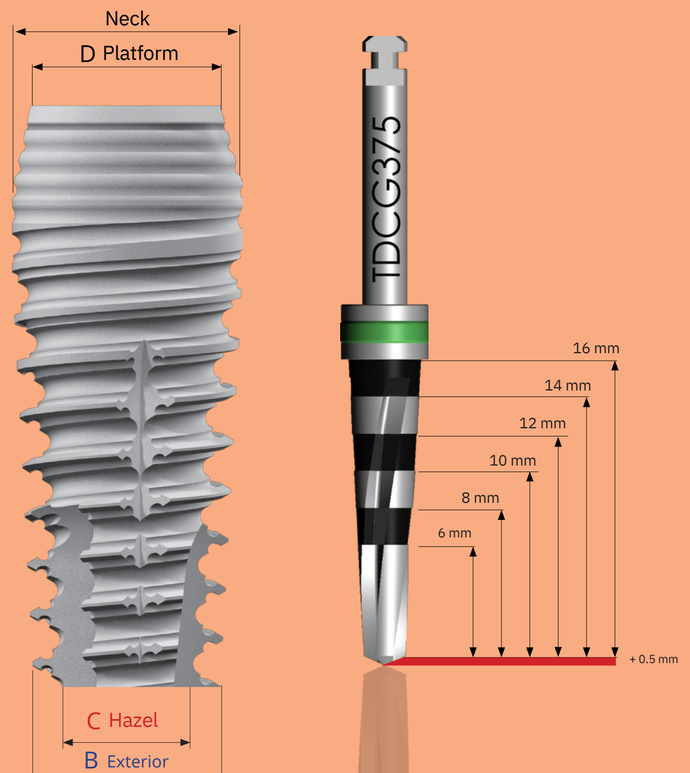
Osteoblastic proliferation is confirmed by increased al-caline phosphatase formation and the presence of PGE2 and TGF-beta. The concavities, in addition to generating benefits in the healing phase, allow a sig- nificant reduction in the cutting section of the bone, making the coil, despite its height of 0.5 mm, atraumatic for the implant socket. The **Nest-Shape®** coil has a profile with a con- stant pitch along the entire length of the implant.

Specifically, the pitch, measuring 0.9 mm, makes the device versatile and significantly re- duces the insertion time. The **Nest-Shape®** coil has the particularity of having 3 grooves in- side its profile. The grooves, made with a radius of 0.25 mm, allow a considerable reduction in the cutting section of the coil and significantly increase the osseointegration surface.

Another important feature of the **Nest-Shape®** coil consists in the insertion phase of the fixture into the implant socket where the coil mechanically clings to the medullary bone.

The implant site, as per protocol, must be prepared with specially designed drills, thus allowing the blood to flow and distribute over the entire body of the implant, stimulating a rapid formation of young and well-oxygenat- ed blood clots. The **Nest-Shape®** coil has a constant depth along the entire length of the implant, except in the coronal area where, on the other hand, it is reduced.

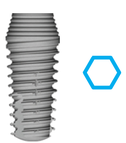




SCREW CAP



Made of Gr5 titanium, it is provided in every implant package.
Manually usable with the Es 1.3 mm driver the Closing Torque is 15/20 Ncm.

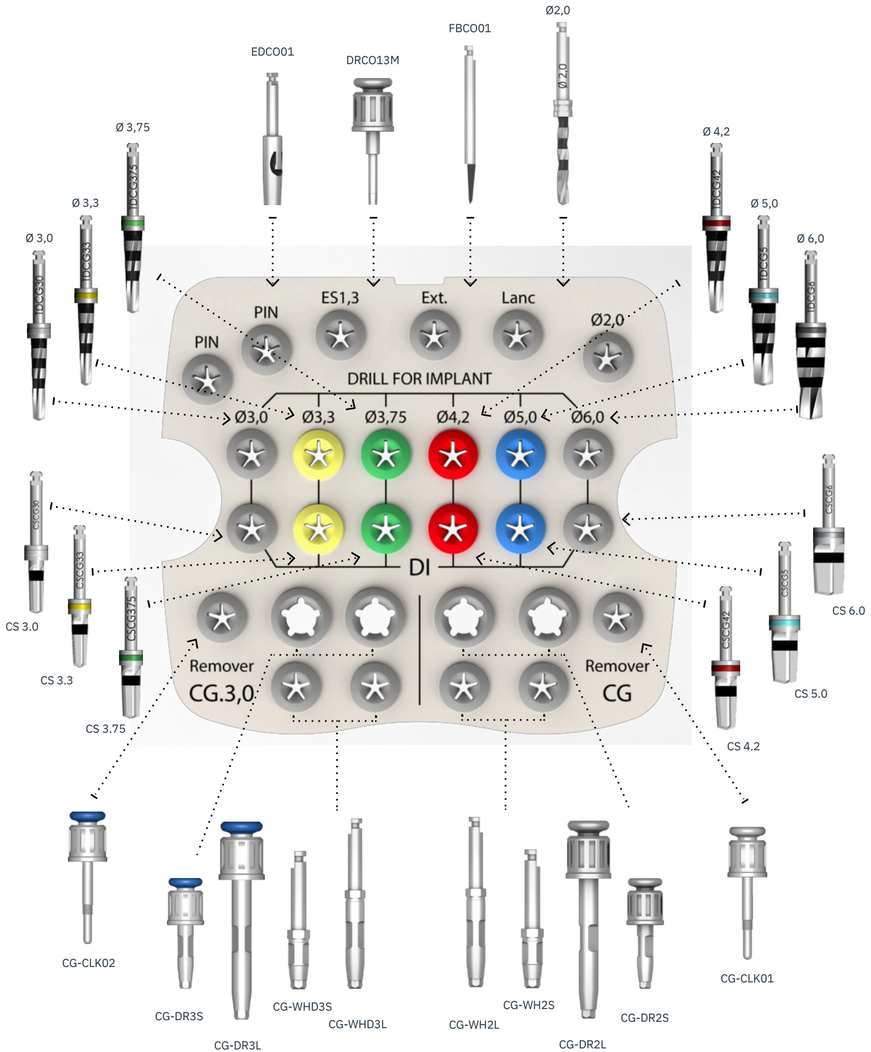
	Length	Code Art,	Measures			
			A	B	C	D
 D 3.3 plant	8 mm	CG33008	Ø 3,75	Ø 2,9	Ø 2,0	Ø 3,6
	10 mm	CG33010	Ø 3,75	Ø 2,7	Ø 1,8	Ø 3,6
	12 mm	CG33012	Ø 3,75	Ø 2,5	Ø 1,6	Ø 3,6
	14 mm	CG33014	Ø 3,75	Ø 2,3	Ø 1,3	Ø 3,6
 Plant D 3.75	8 mm	CG37508	Ø 3,75	Ø 3,2	Ø 2,2	Ø 3,6
	10 mm	CG37510	Ø 3,75	Ø 3,0	Ø 2,0	Ø 3,6
	12 mm	CG37512	Ø 3,75	Ø 2,8	Ø 1,8	Ø 3,6
	14 mm	CG37514	Ø 3,75	Ø 2,6	Ø 1,6	Ø 3,6
 Plant D 4.2	5.5 mm	CG4255	Ø 4,2	Ø 3,6	Ø 2,8	Ø 3,6
	8 mm	CG4208	Ø 4,2	Ø 3,6	Ø 2,6	Ø 3,6
	10 mm	CG4210	Ø 4,2	Ø 3,5	Ø 2,5	Ø 3,6
	12 mm	CG4212	Ø 4,2	Ø 3,2	Ø 2,2	Ø 3,6
	14 mm	CG4214	Ø 4,2	Ø 3,0	Ø 2,0	Ø 3,6
 Plant D 5.0	5.5 mm	CG5055	Ø 5,0	Ø 4,8	Ø 3,8	Ø 3,6
	8 mm	CG5008	Ø 5,0	Ø 4,5	Ø 3,5	Ø 3,6
	10 mm	CG5010	Ø 5,0	Ø 4,3	Ø 3,3	Ø 3,6
	12 mm	CG5012	Ø 5,0	Ø 4,0	Ø 3,0	Ø 3,6
	14 mm	CG5014	Ø 5,0	Ø 3,8	Ø 2,8	Ø 3,6
 Plant D 6.0	5.5 mm	CG6055	Ø 6,0	Ø 5,8	Ø 4,8	Ø 3,6
	8 mm	CG6008	Ø 6,0	Ø 5,5	Ø 4,5	Ø 3,6
	10 mm	CG6010	Ø 6,0	Ø 5,3	Ø 4,3	Ø 3,6
	12 mm	CG6012	Ø 6,0	Ø 5,0	Ø 4,0	Ø 3,6
	14 mm	CG6014	Ø 6,0	Ø 5,8	Ø 4,8	Ø 3,6

The Surgical Kit

The Conical Grade® surgical tray is designed and manufactured to offer ease of use and immediacy in the succession of the instrument sequence. The surgical tray is laser engraved with the same identifying names marked on the accessors so that repositioning the instruments is as easy as possible and according to the sequence shown
on the tray. For surgical drills, in addition to the code, there is a coloring associated with the color code of the implant, the same codification is reproduced on the surgical tray using colored holders.
The surgical tray is made of Radel and has a solid, sturdy shape that can withstand countless sterilization cycles.

Drill sizes

All cutters on one side of the shank have a laser marking on one side that identifies the size while on the opposite side the LOT
number is present.



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3 Farid Shawky , Behind VACSERA center , Al Agouza