

C-TECH
IMPLANT

CP

CONICAL
PLUS

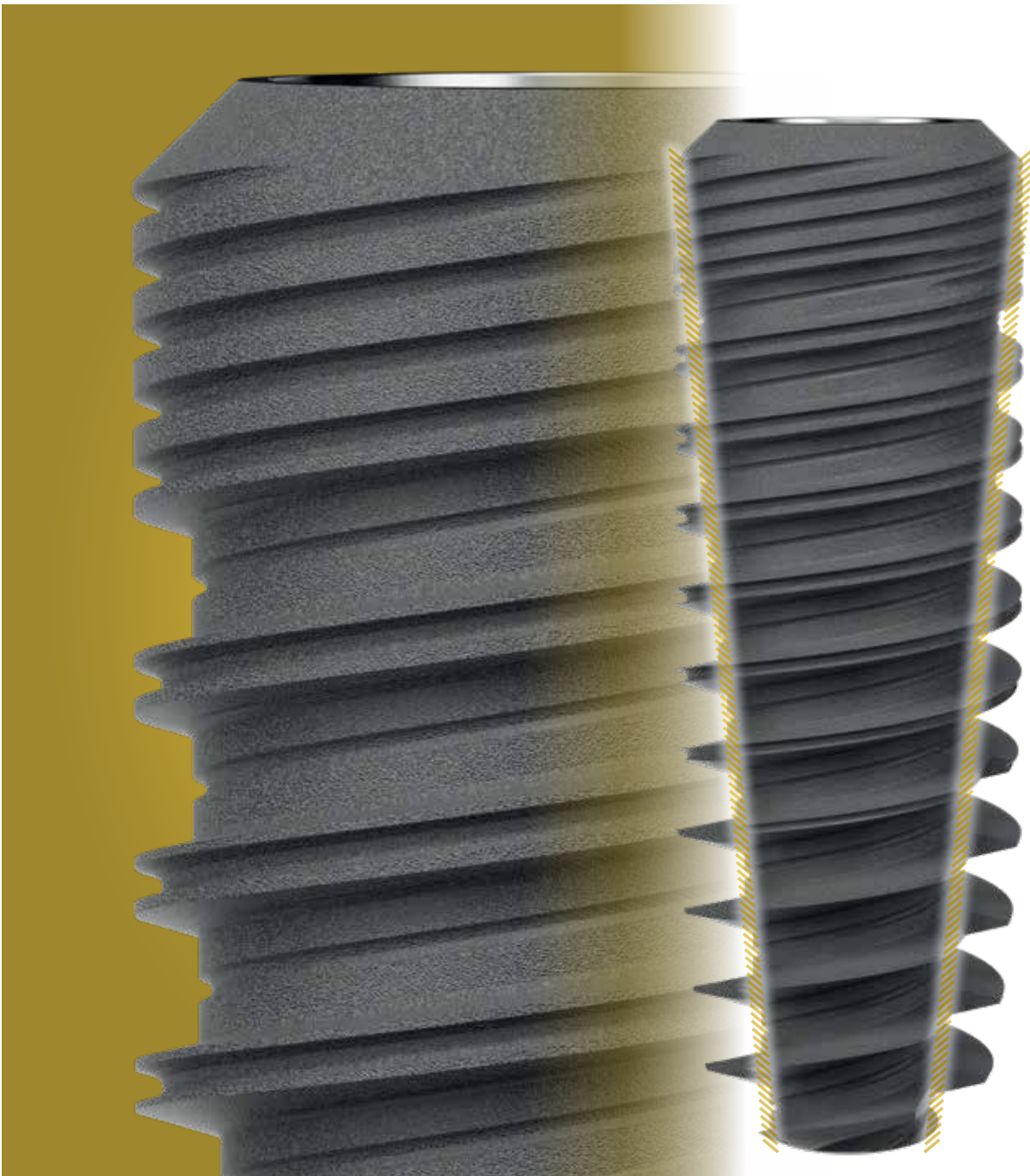


The **Conical Plus** represents the latest evolution of C-Tech Implant's concept of aesthetic success.

Years of experience in the production and design of dental implants have provided unique expertise in the engineering development of high-performance implants. The design of a C-Tech implant stems from the need to achieve and maintain the aesthetic success sought by both clinicians and patients.

The concept is based on a simple principle: preserving crestal bone height and gingival thickness to prevent automatic bone loss following implant placement and prosthetics, ensuring long-term aesthetic success.

This principle has been the cornerstone of C-Tech's growing reputation over time, enabling the development of a new implant, the **Conical Plus**. The CP not only maintains but further enhances performance, increasing the likelihood of success in any clinical scenario. The Conical Plus incorporates the foundational features of aesthetic success while introducing improvements to these original principles.



Platform switching

- Reduces crestal bone loss
- Better representation of the biological width
- Long term esthetic stability

Bevelled shoulder

- Removes possible stress points in the crestal bone
- Facilitates bone growth over the shoulder
- Enables a platform switching effect also at bone level
- Biological repartition of the forces in the bone

Subcrestal seating

- Thanks to its design and choice of prosthetics, the implant can be placed subcrestally or at bone level
- Hinders exposure of the implant
- Long term esthetic stability
- Ideal for the esthetic zone

Thin micro threaded collar (instead of micro grooved)

- Crestal bone maintenance
- Reduction of trauma to the crestal bone

Aggressive thread in thread geometry

- Optimal bone to implant contact
- Excellent primary stability

Gradual conical outer geometry along the complete length of the implant

- Excellent Linear primary stability along the length of insertion
- Smooth insertion into hard bone
- Superior performance in soft bone





Concave Esthetic Prosthetics Concept (CEPC)

- Increased biological width
- Facilitates the papilla reconstruction technique

Cold weld seal

- Added protection against bacteriological infiltration

True Morse locking conical prosthetic connection

- Elimination of the micro gap
- Elimination of micro movements
- Elimination of bacteriological colonization of the gap
- Elimination of prosthetic screw loosening

Single prosthetic platform for 4 implant diameters

- Reduced inventory despite abundant gingival management choice
- Ease of use

Aggressive apical design

- Solid anchor into softer bone
- Self tapping

Rounded apex

- Protection of sinus floor and nerve canal

Purity and precision

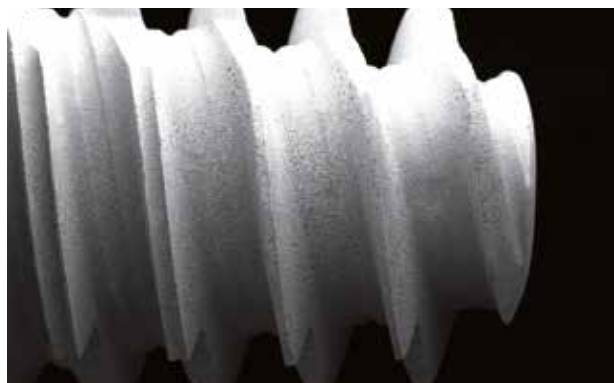
Material purity and surface treatment

Material purity begins with the careful selection of raw materials from only the most trusted sources. Each batch is accompanied by a dedicated material certificate and is fully traceable throughout every stage of production and subsequent use. All CP implants and components are manufactured in a state-of-the-art production facility, which is fully owned and operated by C-TECH and certified to the highest standards for dental and medical device manufacturing. To ensure these standards are consistently upheld, the facility undergoes regular inspection audits conducted by an accredited Notified Body responsible for the company's certification. All current certificates are available for download on the company's website.

The machining of the CP implant is a highly intricate process due to the precision required for the Morse conical connection and the complex external geometry of the implant. This complexity demands double the machining time typically needed for a standard implant.

Throughout and after each production phase, the implants undergo a thorough five-stage cleaning process. This rigorous cleaning regimen ensures that no manufacturing residue remains on the implant surface, thereby maintaining the highest level of cleanliness and safety.

The surface topography is achieved through an acid etching process. Scanning electron microscope (SEM) images clearly demonstrate the absence of impurities on the implant surface, as well as the increased surface area created by the specialized acidification process.



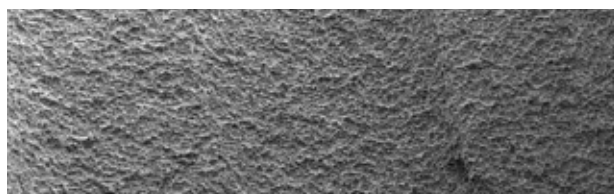
Magnification images 50x

200µm



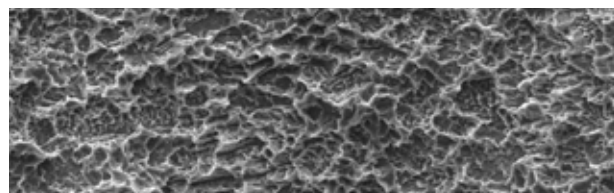
Magnification images 200x

100µm



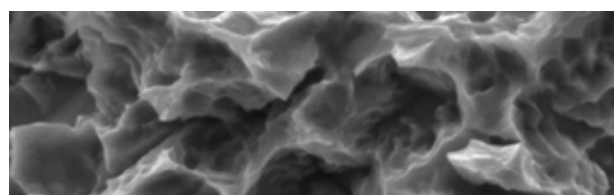
Magnification images 500x

20µm



Magnification images 3000x

10µm



Magnification images 20000x

1µm

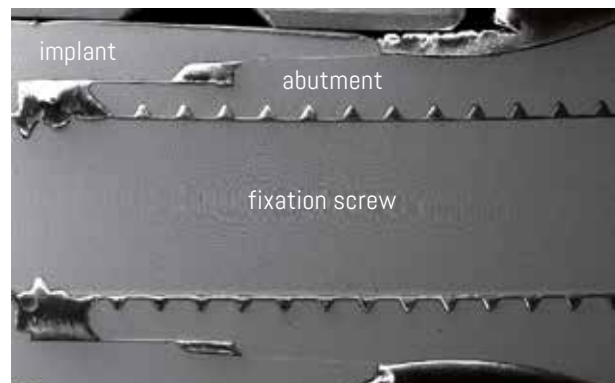
Precision components

The successful achievement of a Morse lock and cold weld seal in the implant-prosthetic connection relies on ultra-precise machining. A perfect Morse connection ensures structural integrity and strength comparable to the fusion of two parts, effectively eliminating any gap between the implant and the abutment. C-TECH components are machined to a tolerance within 10 microns to achieve this level of precision.

This mechanical fusion between the prosthetic part and the implant provides two key benefits:

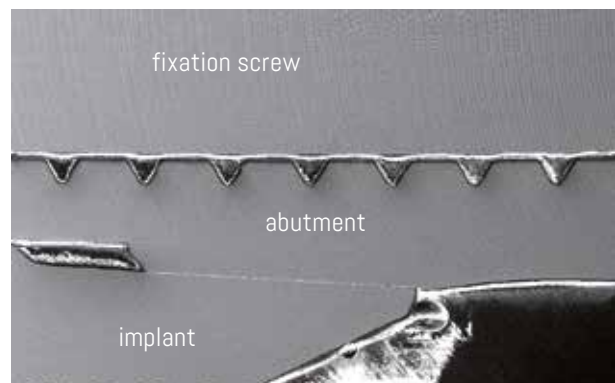
- Prevention of bacterial colonization in the gap, which helps to protect against bone loss around the implant.
- Elimination of micro-movements between the implant and the abutment, reducing the risk of screw loosening and potential prosthetic failure.

The SEM images on the right show different magnifications of the secure abutment and implant connection. The final image, at 1000x magnification, reveals a fine line at the abutment-implant junction. This virtually nonexistent gap measures less than 1.5 microns.



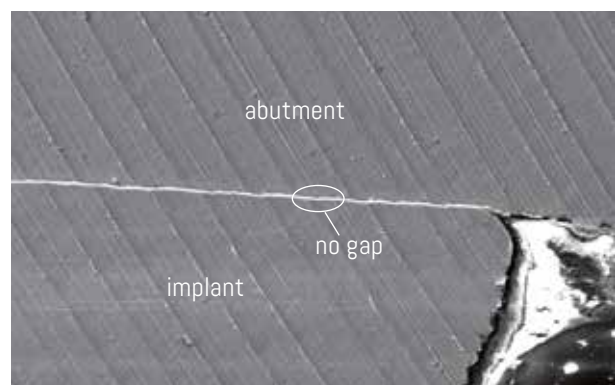
Magnification images 50x

200µm



Magnification images 100x

100µm

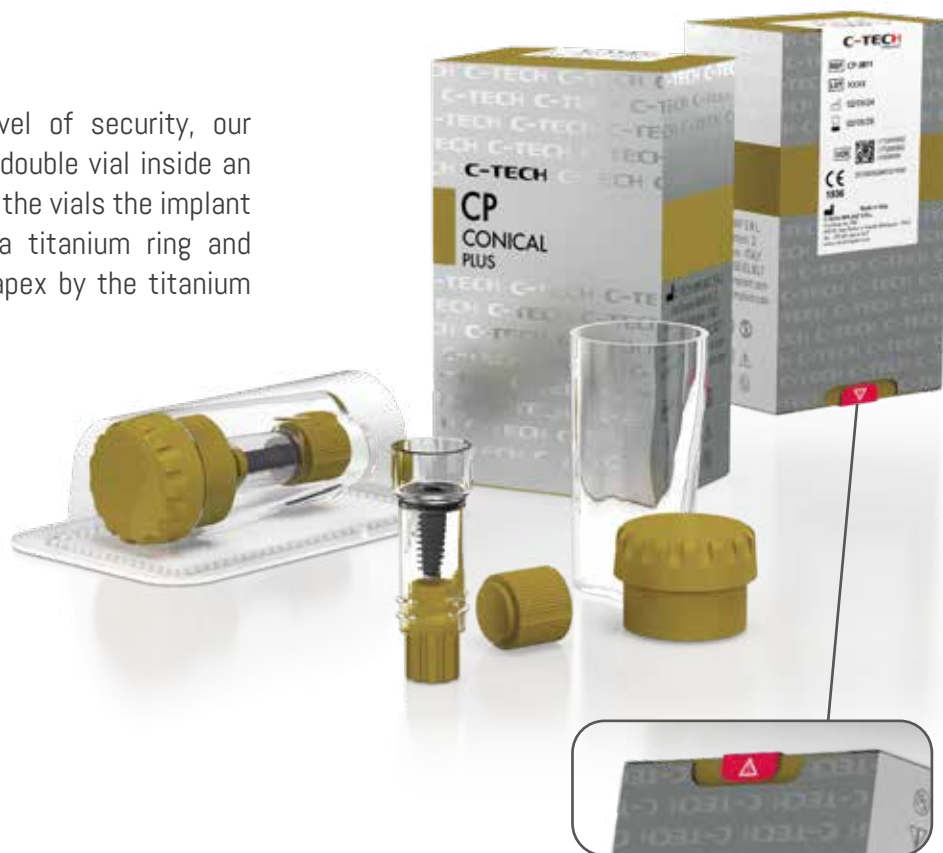


Magnification images 1000x

10µm

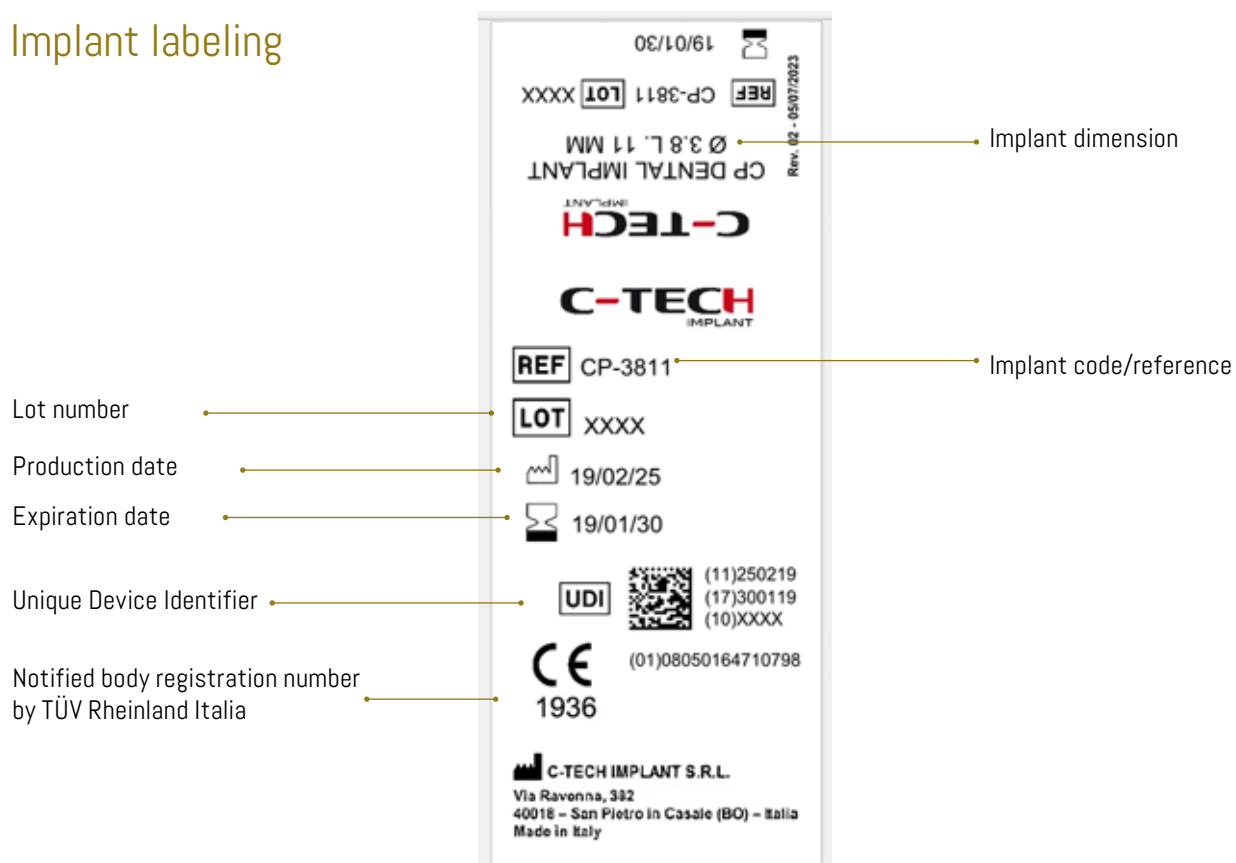
Implant packaging

To ensure the highest level of security, our implants are placed into a double vial inside an airtight blister pack. Within the vials the implant is maintained upright by a titanium ring and supported at the implant apex by the titanium cover screw.



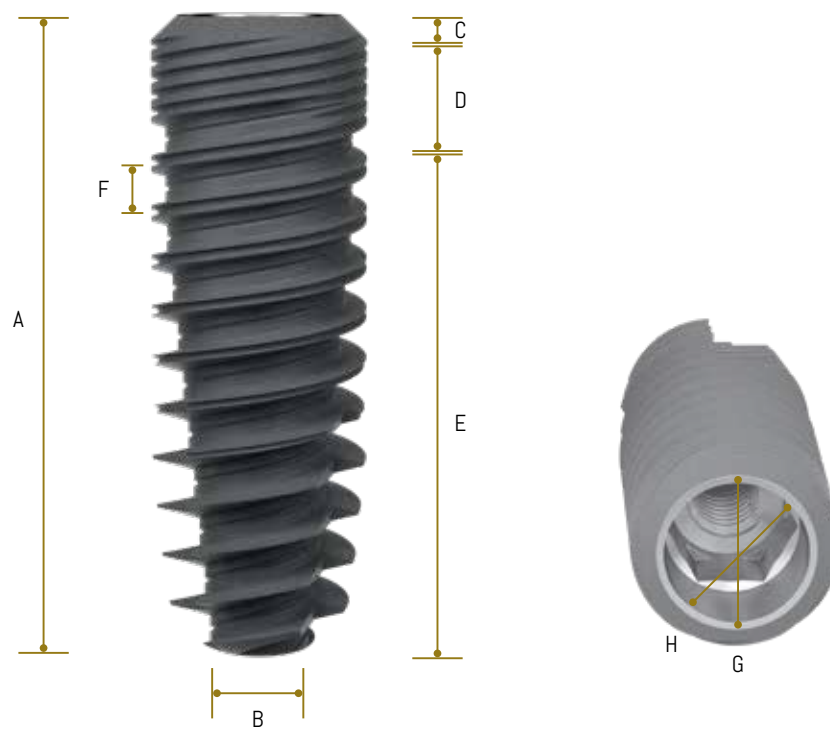
Tamper-evident seal

Implant labeling





Dental Implants

CP implant $\varnothing 3.8$

G	3.8	3.8	3.8	3.8	3.8
A	8	9	11	13	15
B	2	1.55	1.55	1.55	1.55
C	0.5	0.5	0.5	0.5	0.5
D	2.9	2.9	2.9	2.9	2.9
E	4.6	5.6	7.6	9.6	11.6
F	1.0	1.0	1.0	1.0	1.0
H	3	3	3	3	3



CP implant ø4.3

G	4.3	4.3	4.3	4.3	4.3
A	7	9	11	13	15
B	2.1	2.1	1.9	1.9	1.9
C	0.5	0.5	0.5	0.5	0.5
D	2.9	2.9	2.9	2.9	2.9
E	3.6	5.6	7.6	9.6	11.6
F	1.0	1.0	1.0	1.0	1.0
H	3	3	3	3	3



CP-4307
7 mm

CP-4309
9 mm

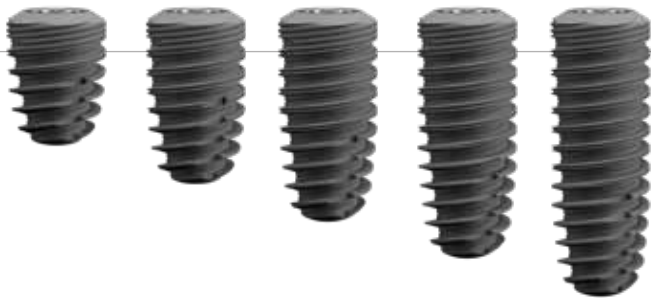
CP-4311
11 mm

CP-4313
13 mm

CP-4315
15 mm

CP implant ø5.1

G	5.1	5.1	5.1	5.1	5.1
A	7	9	11	13	15
B	2.5	2.5	2.5	2.5	2.5
C	0.5	0.5	0.5	0.5	0.5
D	2.9	2.9	2.9	2.9	2.9
E	3.6	5.6	7.6	9.6	11.6
F	1.0	1.0	1.0	1.0	1.0
H	3	3	3	3	3



CP-5107
7 mm

CP-5109
9 mm

CP-5111
11 mm

CP-5113
13 mm

CP-5115
15 mm

CP implant ø6.0

G	6.0	6.0	6.0
A	7	8	10
B	2.3	2.5	2.5
C	0.5	0.5	0.5
D	2.9	2.9	2.9
E	3.6	4.6	6.6
F	1.0	1.0	1.0
H	3	3	3



CP-6007
7 mm

CP-6008
8 mm

CP-6010
10 mm

English version



REV. 05 / 05-2026

SCIENCE MEETS PASSION

C-TECH
CENTURY IMPLANT TECHNOLOGIES

Via Ravenna 382 – 40018 San Pietro in Casale (Bologna) - ITALY
Tel. +39 051 6661817 - info@c-tech-implant.com
www.c-tech-implant.com

Go to



c-tech-implant.com

Download



Last updated version
of this catalogue

