

**C-TECH**  
IMPLANT

ND

---

NARROW DIAMETER  
Implant



Implant NARROW DIAMETER

Our history.....	3	Anchor abutment system.....	20
Who is C-Tech today.....	4	Anchor system instruments.....	23
Our Mission.....	5	ND Surgical Kit.....	24
ND IMPLANT characteristics.....	6	ND Metal Kit.....	25
Implant packaging.....	8	ND/MB Kit.....	26
Implant labeling.....	8	ND Prosthetic Kit.....	27
Implant vial protocol.....	9	Drill Stop Kit.....	28
Dental Implants.....	10	Laboratory accessories.....	29
Open tray impression transfer.....	11	Site preparation D1/D2.....	36
Closed tray impression transfer.....	12		
CAD CAM components.....	14		
Flat abutments.....	16		
O-Ball attachment system.....	18		



All of the materials produced by C-TECH follow a validated procedure, which includes surface treatment and packing as well, in conformity with European and international directives EN ISO 13485, 93/42/EEC and MDR 2017/745 relative to medical devices.



## OUR HISTORY

Emilia-Romagna, 1964.

The history of C-Tech begins in this Italian region that, over the years, has become globally known thanks to the work and creativity of its industries and its people.

Our origins started exactly there, with a precision machining workshop. At the beginning, we produced high precision parts for the automotive, aeronautical and the medical device industries. Then, due to our experience in producing orthopedic implants, in 1966 we received our very first order for a dental implant.

Following the increasing success of our products, we specialized in the production, treatment, packaging and certification of dental implants for other companies. Our vast expertise in the design, production and certification of implants finally resulted in the creation of our own brand in 2010.

Since then, we quickly expanded and our production facilities are now completely dedicated to satisfying our growing market demands.

Currently C-Tech offers 4 different implant lines, its own CAD/CAM milling center, as well as guided surgery planning services.



## WHO IS C-TEC TODAY

We are an Italian company based in San Pietro in Casale, a town in the metropolitan area of Bologna. This area, as well as the entire Emilia-Romagna region, represents a territory long known in Europe for its tradition and know-how in the production of high precision mechanical components.



Our production facilities are among the finest in Europe and we use our expertise in implant design to make the best and most up to date implant systems and implant-based services. In addition to in house production, our facilities include a guided surgery planning, a milling centre and a training centre.



To back up our designs, we carry our research and long-term studies in the leading universities in Europe, while regularly publishing articles and studies on our products.

With our main markets consisting of Italy, Germany and China, we are certified and export our products to over 34 countries.



We also provide educational and training opportunities on a regular basis, both in our headquarters and abroad. This important service aims to address a critical aspect of dental and medical products: the required education to correctly use them.

For this reason, our training activities aim to help professionals in reaching their full potential, while providing the patient the highest level of care.





## OUR MISSION

To provide the highest quality product, service, education and dental implantology solutions to the world's dental practitioners.

## ND IMPLANT characteristics

### Bevelled shoulder

- Facilitates bone growth above the shoulder
- Long term implant stability
- Biological repartition of the forces in cortical bone

### Conical connection

- Structural strength stability
- Reduction of micro-movement

### Micro grooving

- Softens forces to the cortical bone during insertion
- Facilitates cortical bone maintenance

### Sandblasted surface

- Best surface for osseointegration and bone to implant contact

### Aggressive apical design

- Ideal for immediate implant placement
- Guarantees primary stability

### Rounded apex

- Promotes the protection of the sinus floor, nerve canal and other important anatomical structures during insertion

### Implant subcrestal seating

- Hinders exposure of the implant through bone resorption
- Ideal for the esthetic zone
- Long term esthetic stability

### Three different threading profiles

- Thread designs adapted to different bone structures that occur along the depth of the implant
- Enhanced surface area
- Round but cutting apex design

### Double lead thread

- Insertion rate of 1,5mm per rotation
- Guarantees primary stability
- Increased bone to implant contact
- Faster and even insertion while protecting bone structure

### Thread in thread / groove in groove

- Increased bone to implant contact

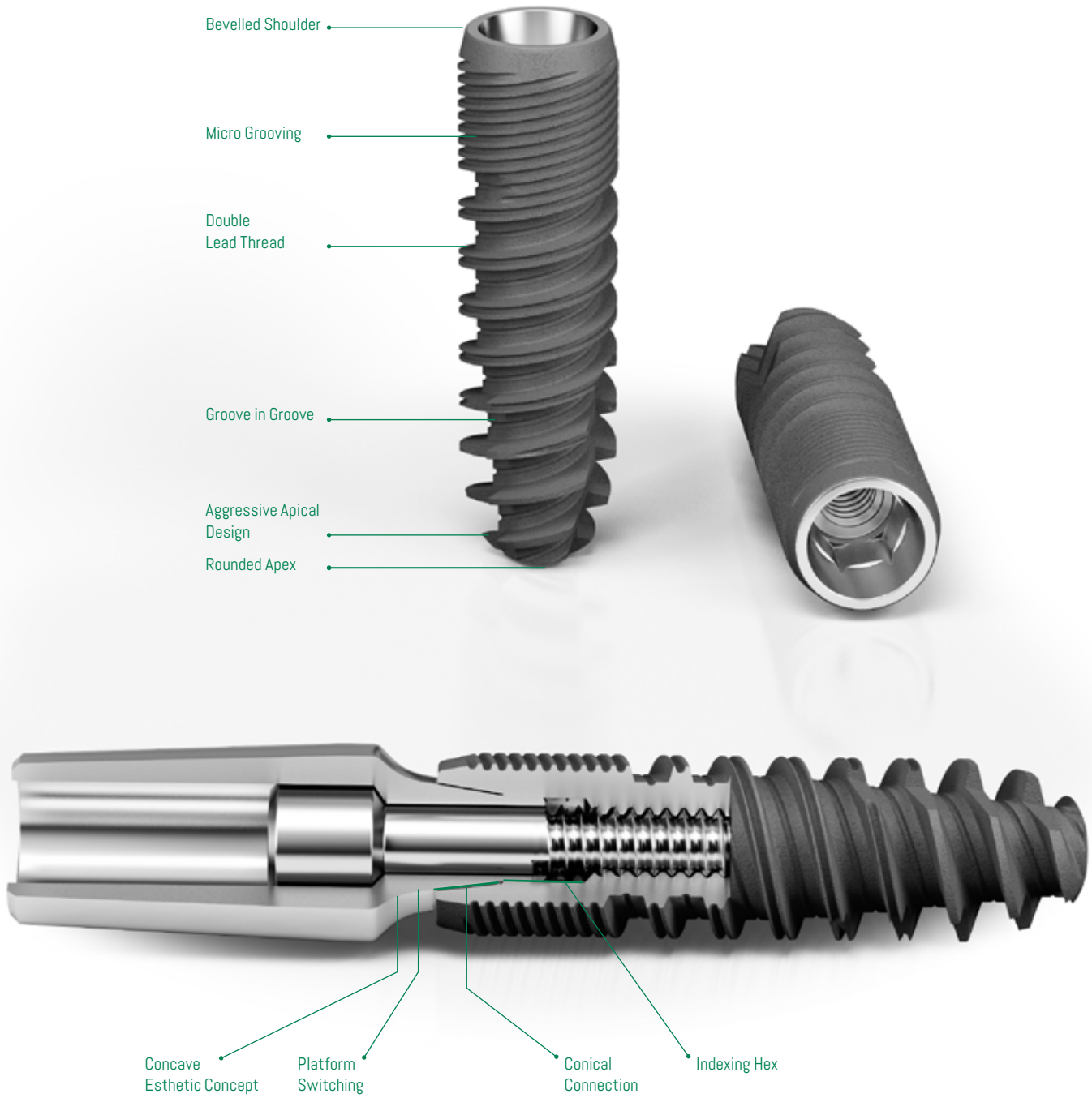
### Platform switching

- Reduces bone loss
- Better representation of the biological width
- Promotes long term esthetic stability

### Indexing hex

- Antirotational security

# NARROW DIAMETER implant



## 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.



## Implant labeling

Rev00 23/09/2020

04/05/26

REF ND- LOT 2221

3.1 L. 9 mm

ND-Dental implant D.

C-TECH IMPLANT

C-TECH IMPLANT

REF ND- LOT 2221

04/06/21

04/05/26

STERILE R

Read the instruction sheet

ISO and CE Certification by TÜV SÜD

Made in Italy

C-TECH IMPLANT S.R.L.  
Via Cesare Battisti n. 2  
40123, Bologna  
Tel. +39.051.66.61.817  
www.c-tech-implant.com

(01)08052961021985(11)221128(17)271028(10)4822

Implant dimension

HIBC Health Industry Bar Code Format

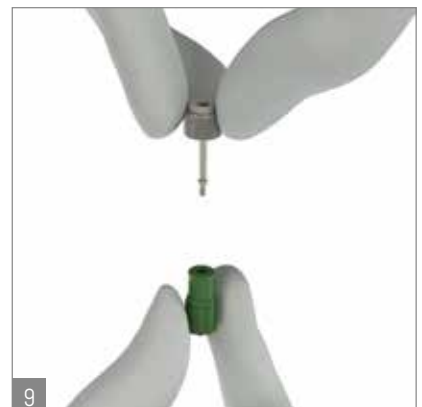
Implant code/reference

Single-use

The device must be use exclusively by the physician



Implant vial protocol



## Dental Implants

ND implant  $\varnothing 3.1$

Material: titanium grade 5



ND-3009 9 mm      ND-3011 11 mm      ND-3013 13 mm

## Titanium healing abutments

Healing Abutments

L	D	C	Fixture	#
0.7	3.8		2	ND-3022
1			4	ND-3024
1.5			6	ND-3026



ND-3022      ND-3024      ND-3026

**TIGHTENING:** with torque ratchet 10 N=Ncm

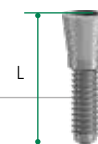
Material: titanium grade 5

Cover Screw

L
5.8

**TIGHTENING:** with torque ratchet 10 N=Ncm

Material: titanium grade 5



ND-3008  
0.8mm

Prosthetic screw

L
7.7

**TIGHTENING:** with torque ratchet 20 N=Ncm

Material: titanium grade 5



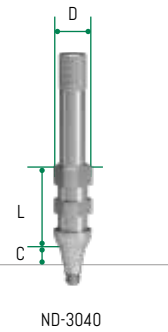
ND-5052HX

## Open tray impression transfer

Open tray transfer Includes screw ND-3041

L	D	C
7.5	3.8	2

Material: titanium grade 5



ND-3040

Impression post screw

L
20

**TIGHTENING:** with torque ratchet 20 N=Ncm

Material: titanium grade 5

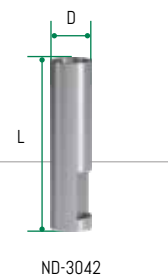


ND-3041

Analog

L	D
15	3.1

Material: titanium grade 5



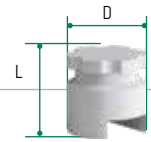
ND-3042

## Closed tray impression transfer

### Plastic impression cap

L	D
5	4

Material: plastic

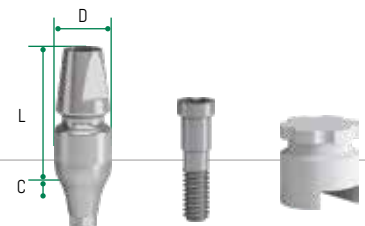


BL-4543

### Complete set

L	D	C
11.5	3.8	2

Material: titanium grade 5



ND-3040/2  
metal  
transfer

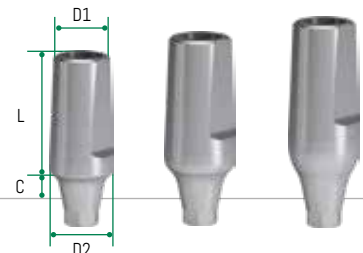
ND-5052HX  
screw

BL-4543  
plastic cap

## Titanium abutments

### Titanium $\varnothing$ 4 straight abutments Include screw ND-5052HX

L	D1	D2	C	Fixture	#
8	3.8	4		1	ND-3025/1
				2	ND-3025/2
				3	ND-3025/3



ND-3025/1  
h1

ND-3025/2  
h2

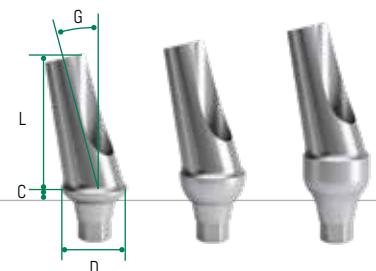
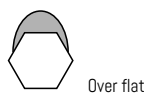
ND-3025/3  
h3

**TIGHTENING:** with torque ratchet 20 N=Ncm

Material: titanium grade 5

### Titanium 15° angled abutments Include screw ND-5052HX

L	D	C	Fixture	G	#
7.7	3.8		1	15°	ND-1530/1
			2		ND-1530
			3		ND-1530/3



ND-1530/1  
h1

ND-1530  
h2

ND-1530/3  
h3

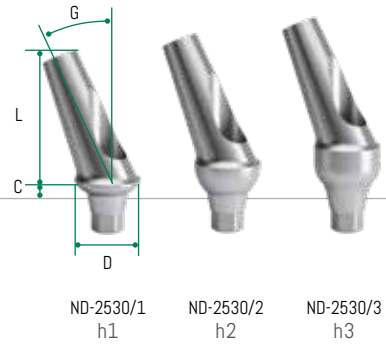
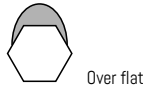
**TIGHTENING:** with torque ratchet 20 N=Ncm

Material: titanium grade 5



## Titanium 25° angled abutments Include prosthetic screw ND-5052HX

L	D	C	Fixture	G	#
7.35	3.8		1.5	25°	ND-2530/1
			2		ND-2530/2
			3		ND-2530/3



**TIGHTENING:** with torque ratchet 20 N=Ncm

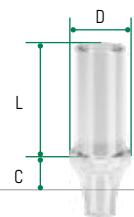
Material: titanium grade 5

## Castable abutment Includes prosthetic screw ND-5052HX

L	D	C
7.5	3.8	2

**TIGHTENING:** with torque ratchet 20 N=Ncm

Material: Plexiglass



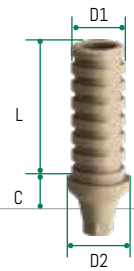
ND-5830

## Temporary peek abutment Includes prosthetic screw ND-5052HX

L	D1	D2	C
8.4	3.2	3.8	1.7

**TIGHTENING:** with torque ratchet 20 N=Ncm

Material: PEEK



ND-TEMP

## Prosthetic screw

L
7.7

**TIGHTENING:** with torque ratchet 20 N=Ncm

Material: titanium grade 5



ND-5052HX

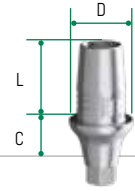
## CAD CAM components

**CEREC® base** Includes prosthetic screw ND-5052HX

L	D	C
4.7	3.9	2

**TIGHTENING:** with torque ratchet 20 Ncm

Material: Titanium grade 5

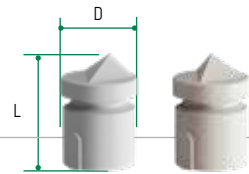


ND-6047

**ONE TIME Scan cap for CEREC® bases**

L	D
6.55	4.8

Material: Plastic



BL-6047/1S  
for Omnicam

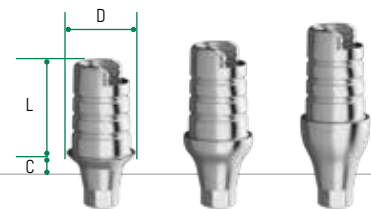
BL-6047/2S  
for Bluecam

**Non rotating CEC titanium bases** Include prosthetic screw ND-5052HX

L	D	C	Fixture	#
5	3.8		1	ND-6041
			2	ND-6042
			3	ND-6043

**TIGHTENING:** with torque ratchet 20 Ncm

Material: Titanium grade 5



ND-6041  
h1

ND-6042  
h2

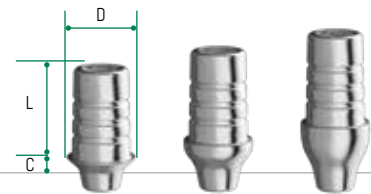
ND-6043  
h3

**Rotating CEC titanium bases** Include prosthetic screw ND-5052HX

L	D	C	Fixture	#
5	3.8		1	ND-6041R
			2	ND-6042R
			3	ND-6043R

**TIGHTENING:** with torque ratchet 20 Ncm

Material: Titanium grade 5



ND-6041R  
h1

ND-6042R  
h2

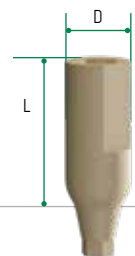
ND-6043R  
h3

**Intraoral scanbody** Compatible with EXOCAD, 3SHAPE and DENTALWINGS - Includes prosthetic screw ND-5052HX

L	D
9.45	3.8

**TIGHTENING:** with torque ratchet 15 Ncm

Material: PEEK



ND-6040  
NON ROTATING

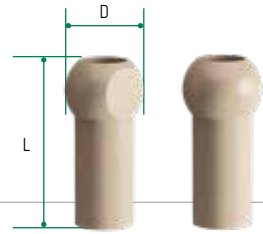
# NARROW DIAMETER implant

**Scan cap** Compatible with EXOCAD, 3SHAPE and DENTALWINGS - Includes prosthetic screw ND-SCANSCREW

L	D
12	4.8

**TIGHTENING:** with torque ratchet 15 Ncm

Material: PEEK



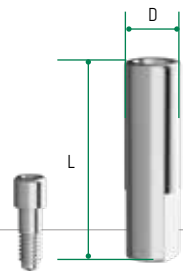
ND-6044P NON ROTATING    ND-6044PR ROTATING

**3D Analog** Compatibile with EXOCAD, 3SHAPE e DENTALWINGS - Includes prosthetic screw DG-SCREW

L	D
11.5	3.2

**TIGHTENING:** with torque ratchet 15 Ncm

Material: Titanium grade 5



DG-SCREW included    ND-DG5143

**Prosthetic screw**

L
7.7

**TIGHTENING:** with torque ratchet 20 Ncm

Material: titanium grade 5



ND-5052HX

**Scan screw**

L	D
6.1	3

**TIGHTENING:** with torque ratchet 15 Ncm

Material: titanium grade 5



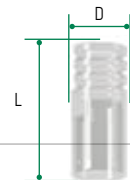
ND-SCANSCREW

**Non rotating castable abutment for flat bases**

L	D
9.1	3.8

**TIGHTENING:** with torque ratchet 20 N=Ncm

Material: Plexiglass



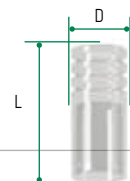
ND-DGCAST

**Rotating castable abutment for flat bases**

L	D
9.1	3.8

**TIGHTENING:** with torque ratchet 20 N=Ncm

Material: Plexiglass



ND-DGCAST/R

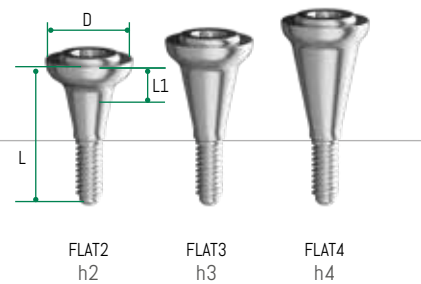
## Flat abutments

### Flat abutments

L	L1	D	#
8.1	2	4.5	FLAT2
9.1	3		FLAT3
10.1	4		FLAT4

**TIGHTENING:** with torque ratchet 20 N=Ncm

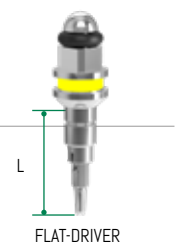
Material: Titanium grade 5



### Driver for Flat abutments

L	#
9.85	FLAT-DRIVER

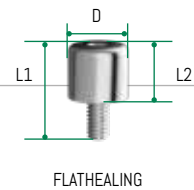
Material: Stainless steel



### Flat healing screw

L1	L2	D
7.2	4	4.5

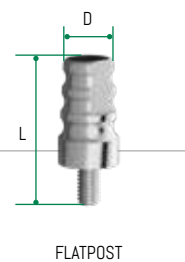
Material: titanium grade 5



### Flat closed tray transfer

L	D
11.2	3.74

Material: titanium grade 5

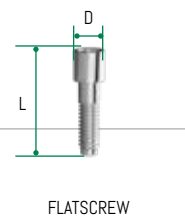


### Flat connecting screw

L	D
6.4	2

**TIGHTENING:** with torque ratchet 15 N=Ncm

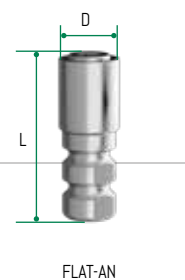
Material: titanium grade 5



### Flat analog

L	D
12.5	4

Material: titanium grade 5





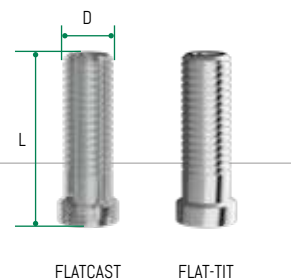
## NARROW DIAMETER implant

Flat casting and titanium cylinder Includes prosthetic screw FLATSCREW

L	D	#
11.5	3.6	FLATCAST
		FLAT-TIT

**TIGHTENING:** with torque ratchet 15 N=Ncm

Material: Plexiglass and titanium grade 5



## CAD CAM for flat abutments

Flat scan cap Compatible with EXOCAD, 3SHAPE e DENTALWINGS - Includes prosthetic screw FLATSCREW

L	D
12	4.5

**TIGHTENING:** with torque ratchet 15 N=Ncm

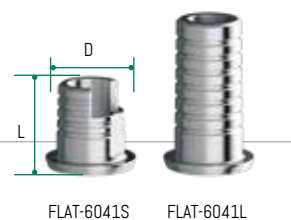
Material: PEEK



Flat Base Includes prosthetic screw FLATSCREW

L	D	#
4.5	4.5	FLAT-6041S
8		FLAT-6041L

Material: titanium grade 5

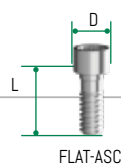


Flat screw for Angled Screw Channel

L	D
5.9	2.4

**TIGHTENING:** with torque ratchet 10 N=Ncm

Material: Titanium grade 5



Hexalobular latch driver medium For OMNI, MUA and Flat angled screws

Material: Titanium grade 5

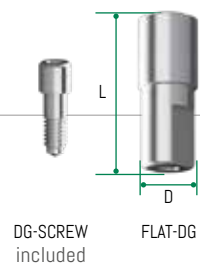


HEXA-M

Flat digital analog Compatibile with EXOCAD, 3SHAPE e DENTALWINGS - Includes prosthetic screw DG-SCREW

L	D
11.8	4

Material: titanium grade 5



DG-SCREW  
included

FLAT-DG

## O-Ball attachment system

### Intended use

Removable dentures retained by implants in the mandible and maxilla.

### Characteristics

- The clinical process for the o-ball attachment system is quick, easy and functional;
- The O-ring attachment is designed to virtually eliminate wear on the O-ball abutment and minimize the need for maintenance;
- 3 different gingival heights;
- 3 different O-ring resistances offering optimal retention for every individual situation.

### Reliable

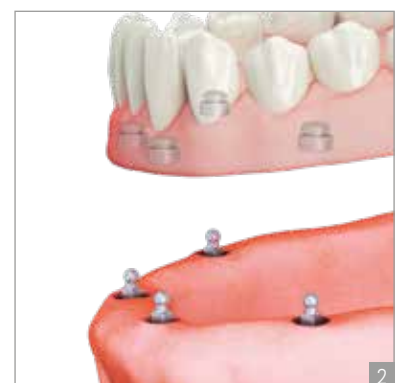
Dual retention for optimal abutment-denture connection. Excellent long-term performance due to wear resistant components.

#### STEP 1

*Screw the spherical abutment into the implant using butterfly key MC-3002 or ratchet driver MC-3003S, MC-3003M or MC-3003L.*

#### STEP 2

*Rebase the overdenture according to the standard procedure.*



## Butterfly driver

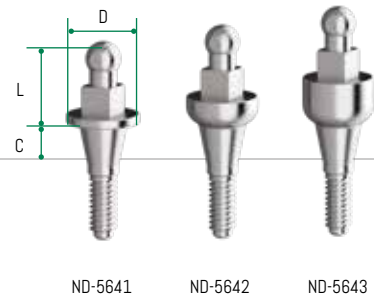
D	L
8.5	7

Material: Stainless steel



## O-Ball abutments

L	D	C	#
3.8	3.8	1	ND-5641
		2	ND-5642
		3	ND-5643



**TIGHTENING:** with torque ratchet 20Ncm

**Complete set includes:**

O-Ring (Ref. MC-3005) 1 piece

Metal Housing (Ref. MCH-2)

O-Ball Abutment (Ref. ND-5641, ND-5642, ND-5643)

Material: Titanium grade 5

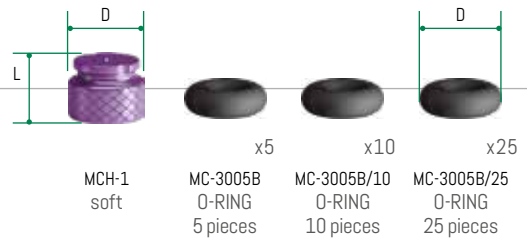
## Soft retention caps

L	D
3.5	4.7

Material: Titanium grade 5

o-ring	D
	4.4

Material: FDA Buna



Available in single packages: MCH-1

Available in packages of 4 caps: MCH-1/4

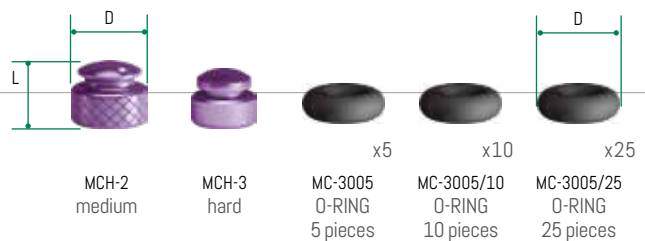
## Medium & hard retention caps

L	D	#
3.2	4.2	MCH-2
2.9	4	MCH-3

Material: Titanium grade 5

o-ring	D
	3.8

Material: FDA Buna



Available in single packages: MCH-2, MCH-3

Available in packages of 4 caps: MCH-2/4, MCH-3/4

# Anchor abutment system

CE marked products by Rhein83

## Smart Box Set

### 330SBE set includes:

- 1 Smart Box housing
- 1 Black positioning cap

### Complete 335SBC set includes:

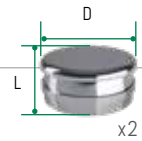
- 1 Smart Box housing with black positioning cap (Ref. 330SBE)
- 2 Stainless steel housings (Ref. 141CAE)
- 1 Retentive caps - violet "strong" (Ref. 140CEV)
- 1 Retentive caps - white "standard" (Ref. 140CET)
- 1 Retentive caps - pink "soft" (Ref. 140CER)
- 1 Retentive caps - yellow "extra-soft" (Ref. 140CEG)



330SBE  
335SBC  
(complete set)

## Metal housing 2 pieces

L	D
1.98	4.5



141CAE

## Plastic caps 4 pieces

L	D
1.78	3.8

Material: 140CEV - kepital  
140CET/140CER/140CEG - pebax



140CEV strong retention 2.7kg  
140CET standard retention 1.8kg  
140CER soft retention 1.2kg  
140CEG extra-soft retention 0.6kg

## OT equator titanium scan abutment + titanium screw

Material: Titanium grade 5

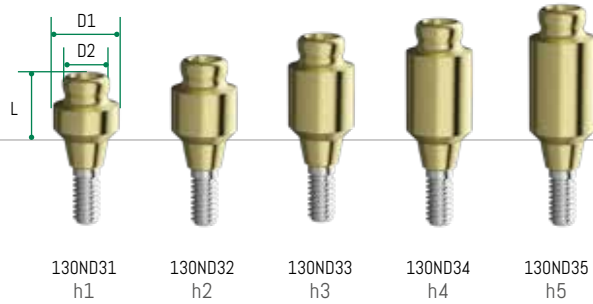


145SAE



## Anchor abutment

L	D1	D2	#
2.4	4.3	2.5	130ND31
3.4			130ND32
4.4			130ND33
5.4			130ND34
6.4			130ND35



**TIGHTENING:** with Rhein83 torque ratchet 25 Ncm

### Complete set includes:

- 1 Anchor abutment (Ref. 130ND31, 130ND32, 130ND33, 130ND34, 130ND35)
- 1 Stainless steel housings (Ref.141CAE)
- 1 Retentive caps - violet "strong" (Ref. 140CEV)
- 1 Retentive caps - white "standard" (Ref. 140CET)
- 1 Retentive caps - pink "soft" (Ref. 140CER)
- 1 Retentive caps - yellow "extra-soft" (Ref. 140CEG)

Material: Titanium grade 5

## Torque ratchet

Material: Stainless steel



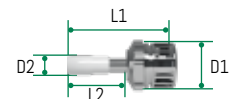
760CRD-US

## OT-Equator square screw driver for Anchor abutment

Compatible only with Rhein83 torque ratchet

L1	L2	D1	D2
17	10.5	9	3.5

Material: Stainless steel



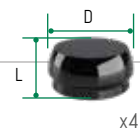
774CHE  
square  
1.25 mm

## Laboratory accessories

### Processing caps - black 4 pieces

L	D
1.78	3.8

Material: Rilsan

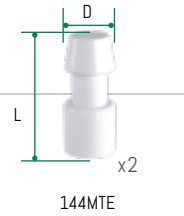


140CEN

Impression coping 2 pieces

L	D
9	3.7

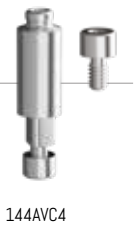
Material: Acetal



144MTE

Laboratory analog with screw for CAD/CAM  $\varnothing$ 4mm

Material: Titanium grade 5



144AVC4

Laboratory analog 2 pieces

L	D1	D2
15.6	4.3	2.5

Material: Stainless steel AISI 303

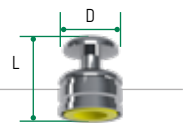


144AE

Pull-off impression coping

L	D
5.5	4.6

Material: Stainless steel AISI 303

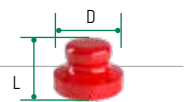


044CAIN

Castable cap

L	D
2.45	3.8

Material: Crystal polystyrene



151SS

## Anchor system instruments

### Metal insertion/extraction tool for caps

Material: Nylon and Stainless steel

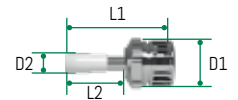


485IC

### OT-Equator square screw driver for abutment

L1	L2	D1	D2
17	10.5	9	3.5

Material: Stainless steel

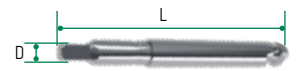


774CHE  
square  
1.25 mm

### OT-Equator square latch driver for abutment

L	D
22	2.3

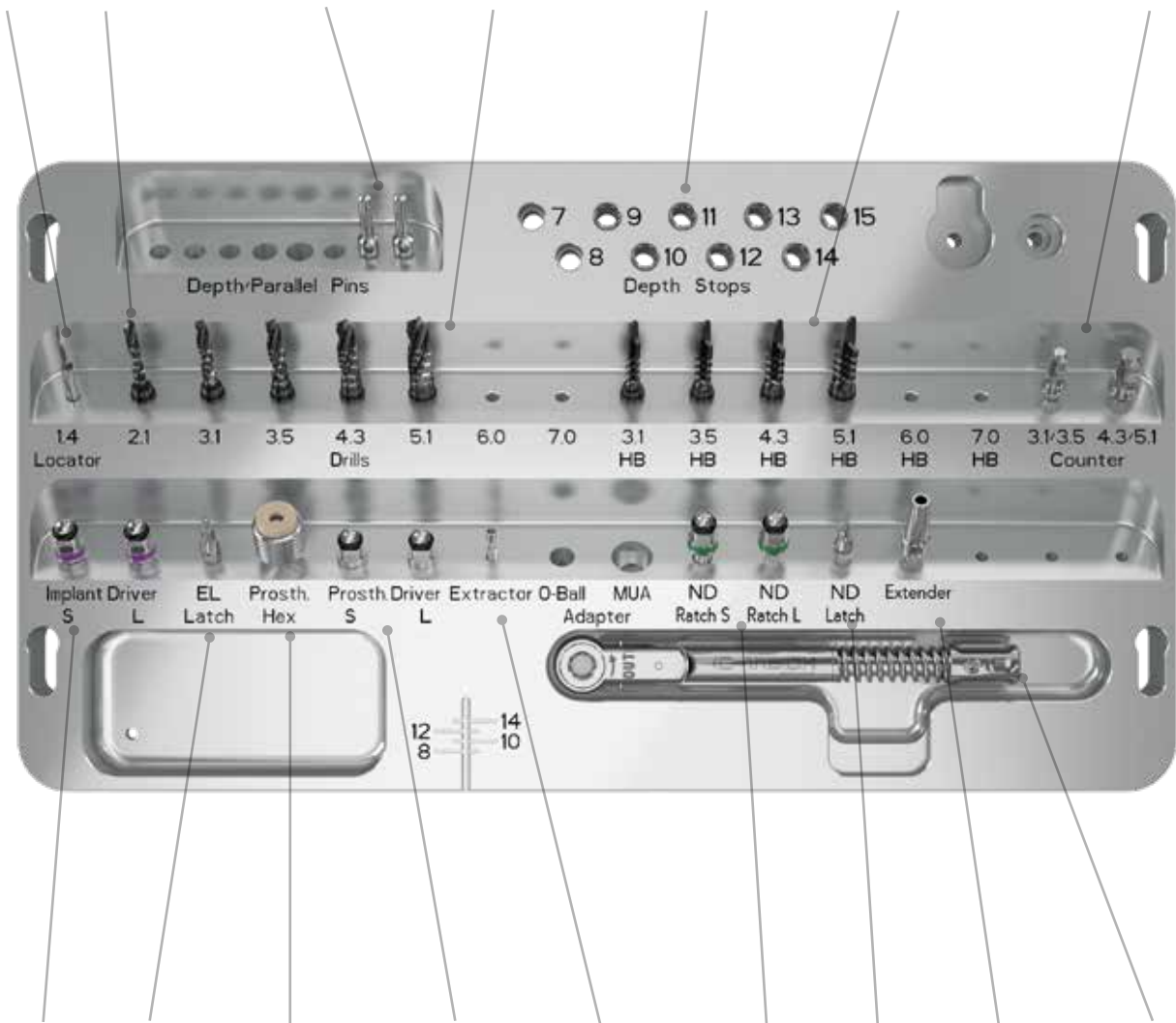
Material: Stainless steel



760CE

ND Surgical Kit

EL-SUR.KIT.01

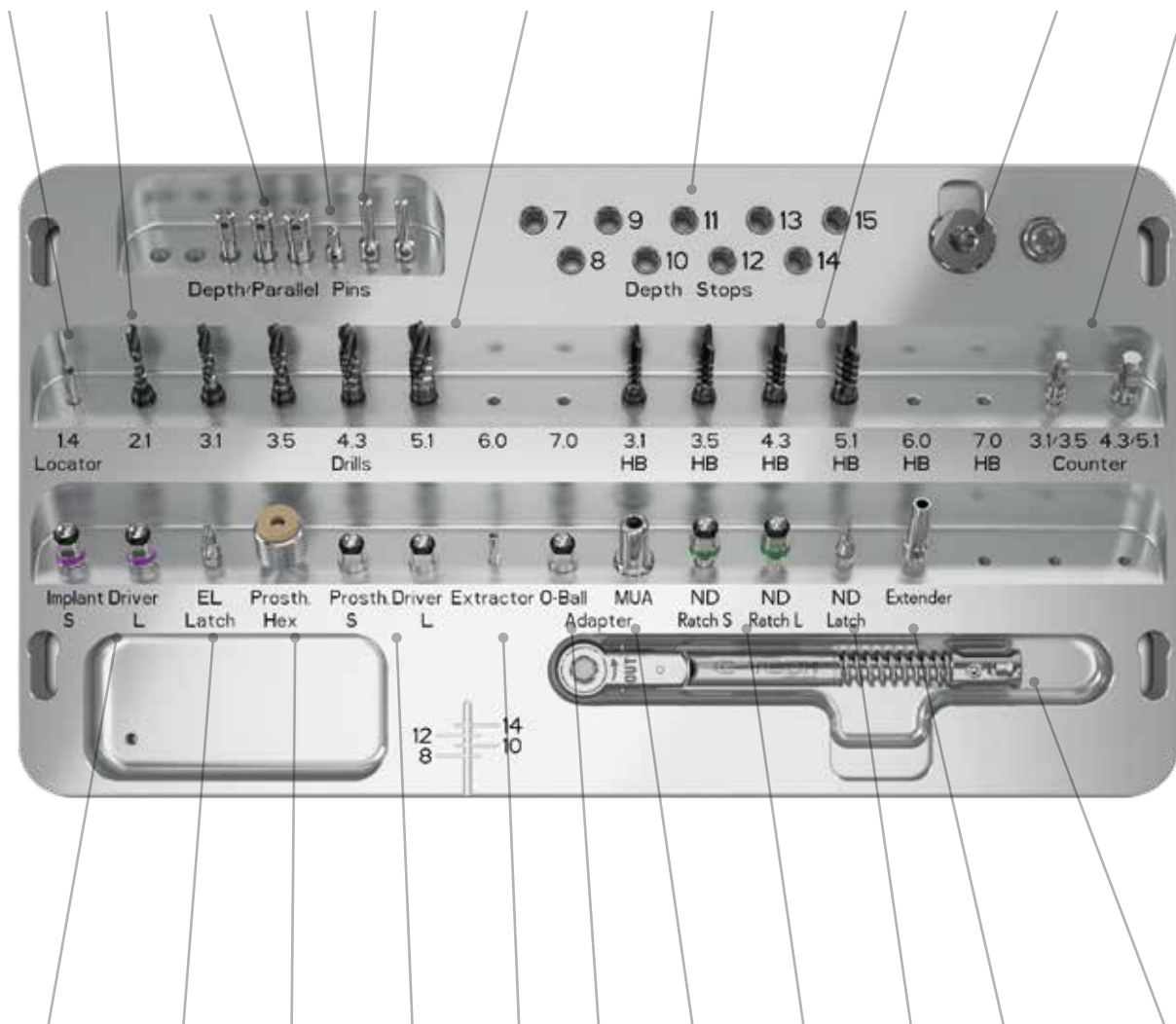


Elements not included in the kit can be purchased separately.



## ND Metal Kit

METALKIT03



The Drills CT-1760E, CT-1770E, EL-1760N and EL-1770N are not included in the kit but can be purchased separately.

ND/MB Kit

SURKIT06



ND Prosthetic Kit

PRSKIT01



\*Prosthetic parts are not included in the kit

## Drill Stop Kit

STOPKIT00: Empty/No Contents

### STOPKIT01 Contents

- Stop L.6 - CT-STOP06
- Stop L.7 - CT-STOP02
- Stop L.8 - CT-STOP01
- Stop L.9 - CT-STOP07
- Stop L.10 - CT-STOP03
- Stop L.11 - CT-STOP08
- Stop L.12 - CT-STOP12
- Stop L.13 - CT-STOP09
- Stop L.14 - CT-STOP14
- Stop L.15 - CT-STOP10

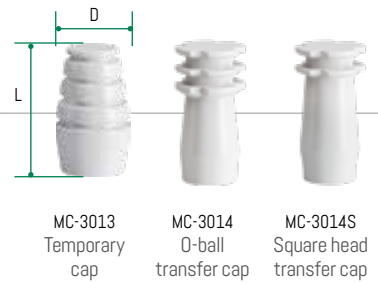


## Laboratory accessories

### O-ball temporary and transfer caps

D	L	#
4.0	7	MC-3013
4.5	6.4	MC-3014
4.5	6.4	MC-3014S

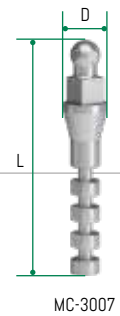
Material: POM



### Collared analog

D	L
2.6	15.8

Material: Titanium grade 5

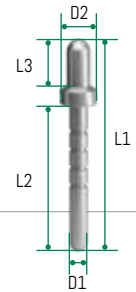


## Instruments

### Combined depth paralleling pins

L1	L2	L3	D1	D2
23.5	16.5	5.5	1.9	2.5

Material: Titanium grade 5

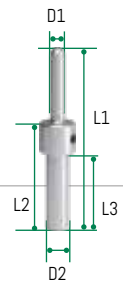


CT-PIN1  
1.9 mm  
2.5mm

### Paralleling pin

L1	L2	L3	D1	D2
24.2	14.2	10.2	2	2.6

Material: Titanium grade 5



CT-9003  
1.6 mm  
2.0mm

### Drill Extender

L
29.3

**Note:** This item is intended as a drill extender and will not support more than 40Ncm. It is not intended as implant driver extension.

Material: Stainless steel

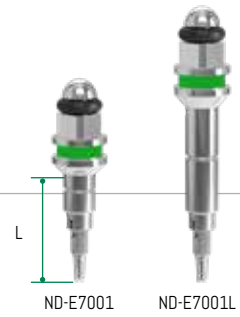


CT-2000

## Implant ratchet driver

L	#
9.85	ND-E7001
17.75	ND-E7001L

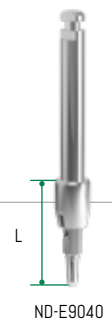
Material: Stainless steel



## Implant latch driver

L
11.8

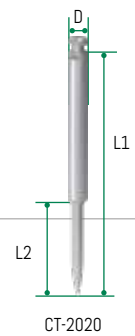
Material: Stainless steel



## Locator drill

L1	L2	D
29	15	1.6

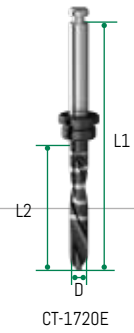
Material: Stainless steel



Initial drill

L1	L2	D
35.2	17.2	2.1

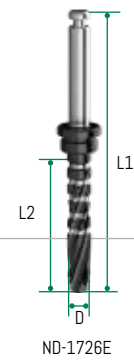
Material: Stainless steel



Main drill

L1	L2	D
36.7	15.9	2.6

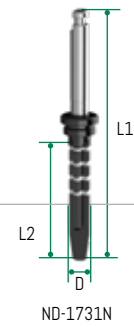
Material: Stainless steel



Hard bone drills

L1	L2	D
34	15.5	3

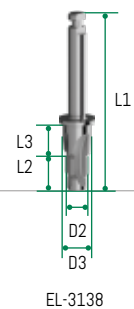
Material: Stainless steel



Counterbore

L1	L2	D2	L3	D3
23.9	4.8	3.1	4.5	3.5

Material: Stainless steel





Bone Tap

L	D
10	3.1

Material: Stainless steel



EL-TAP31

Stops

L	D	#
9	5.2	CT-STOP07
11		CT-STOP08
13		CT-STOP09

Material: Stainless steel



CT-STOP07  
Stop L.9

CT-STOP08  
Stop L.11

CT-STOP09  
Stop L.13

Prosthetic latch driver

L
26.5

Material: Stainless steel

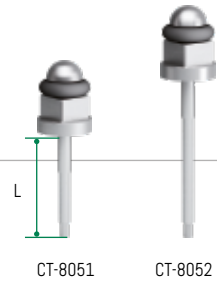


BL-9019

Torque wrench attachments

L	#
12.5	CT-8051
18.5	CT-8052

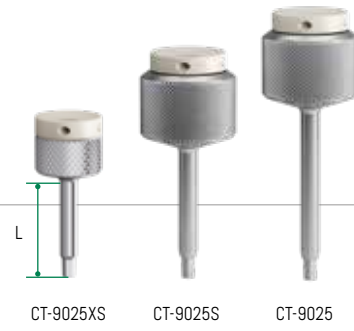
Material: Stainless steel



Hex drivers

L	#
19.9	CT-9025XS
26	CT-9025S
32	CT-9025

Material: Stainless steel



Butterfly driver

D	L
8.5	7

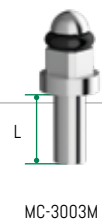
Material: Stainless steel



O-ball driver

L
8

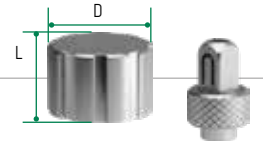
Material: Stainless steel



## Finger adapter

L	D	#
5.8	12.7	CT-E7002
8.61	8	CT-E7003

Material: Stainless steel



CT-E7002  
for ratchet  
drivers

CT-E7003  
for latch  
drivers

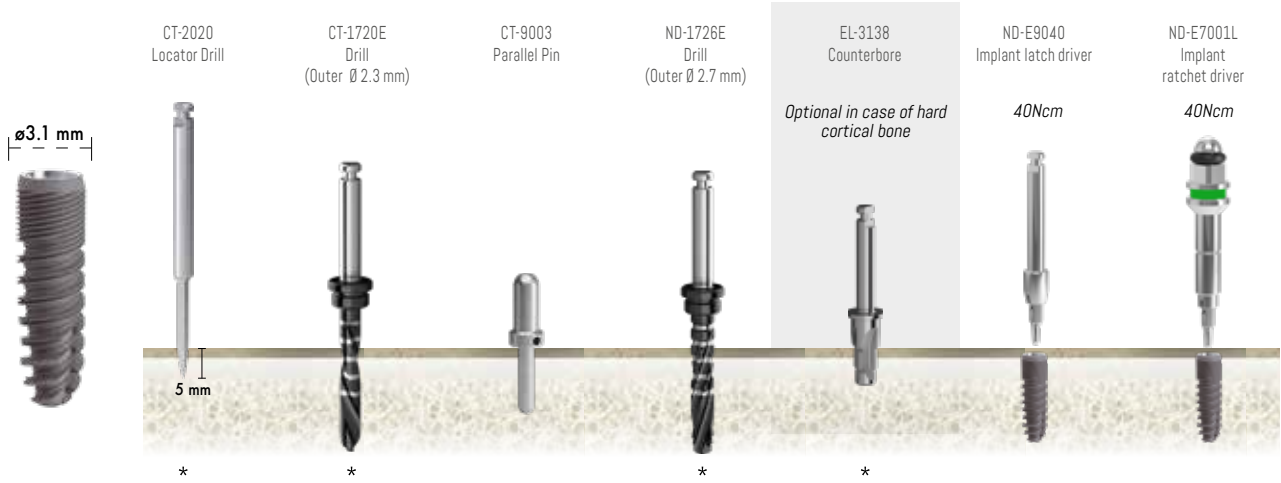
## Torque Wrench 50Ncm

Material: Stainless steel

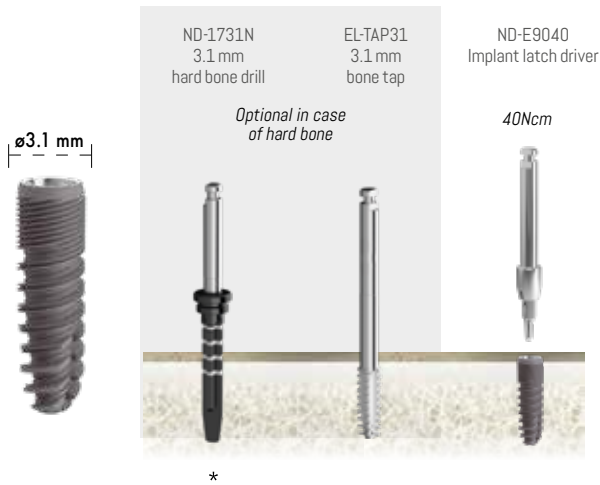


CT-8010

## Site preparation D1/D2



## Site preparation D3



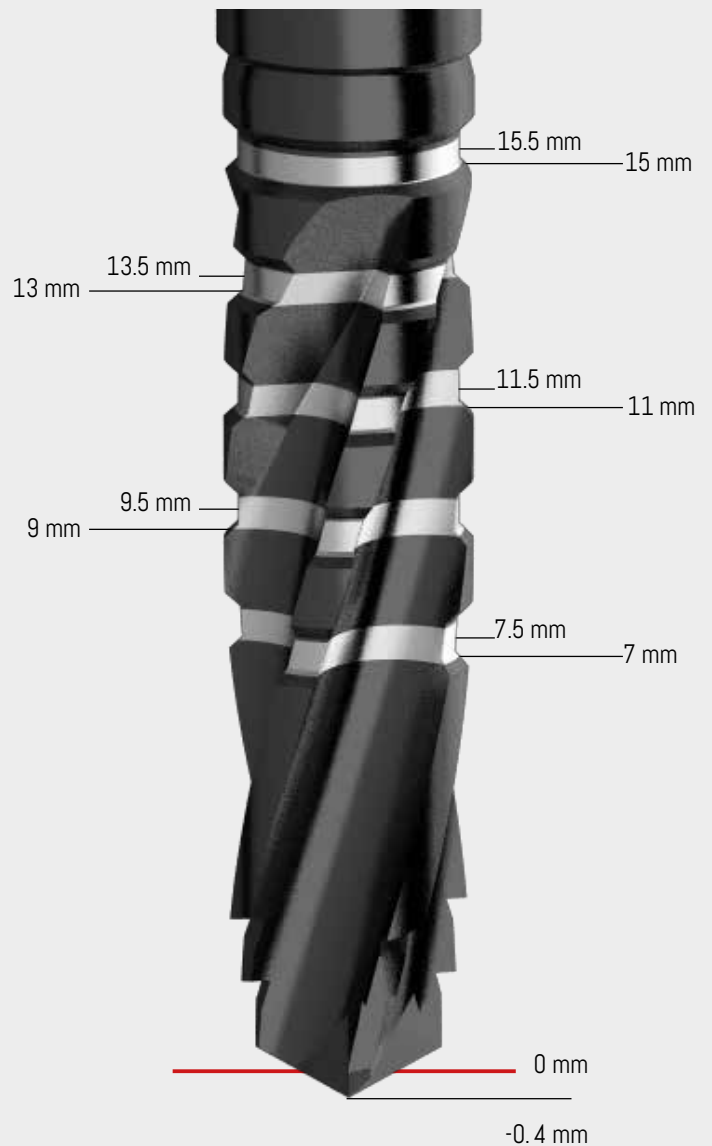
\*Depth: Minimum 1mm deeper than length of implant is to allow for subcrestal seating.

To avoid bone overheating, set the cutting speed between 100 and 750rpm.

Note: an additional 0.4 mm must be added to the length of the drill due to the length of the angled cutting tip.

## Explanation of Drill Marking

- The drill markings do not include the point of the drill.
- The point of the drill is 0.4 mm long, thus the drill marking of 7 mm is actually 7.4 mm from the very tip to the bottom of the black line.
- The implant should be set approximately 1 mm subcrestally, thus for a 13 mm implant, one should drill to the 14 mm. The use of metal stop is recommended.
- The height of the grey drill marking is 1 mm







English version



REV.15 / 03-2024

# #ScienceMeetsPassion

**C-TECH**  
CENTURY IMPLANT TECHNOLOGIES

Via Cesare Battisti n. 2 - 40123, 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

