

ND

NARROW  
DIAMETER  
implant



**C-TECH**  
IMPLANT

## Implant NARROW DIAMETER

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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 13485:2003/AC:207 and 93/42/EEC relative to medical devices.

### Dental precision solutions

C-Tech Implant is a dynamic company with aggressive growth, producing components and product lines primarily for dental implantology.

### International presence

With production and management based in Italy, C-Tech Implant is active in all major world markets and is distributed in over 25 countries.

### Scientific research, advanced technology and simplification

C-Tech Implant differentiates itself with attention to research and the application of high technology to its products, all while maintaining a simplicity of insertion and ease of use.

C-Tech Implant combines the latest trends in implantology with practical surgical and prosthetic solutions aimed at offering the practitioner and the patient optimal results.

### High quality standards

C-Tech Implant products are made to the highest standards governing the manufacturing and management of European medical and dental components.

Up to date audits and certifications assure that these standards are vigilantly maintained.

### Training and advice

Dental professionals are assisted by the wide knowledge and experience of C-Tech Implant personnel and through C-Tech courses and training sessions.

During these courses the professional is able to learn the latest methods of implant placement and reconstruction.

### Mission statement

The goal of C-Tech Implant is to provide the highest level of quality for technologically advanced products at reasonable prices in order to allow the dental practitioner to find solutions for the broadest range of patients.



## 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

### Grit blasted and acid etched surface topography

- 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

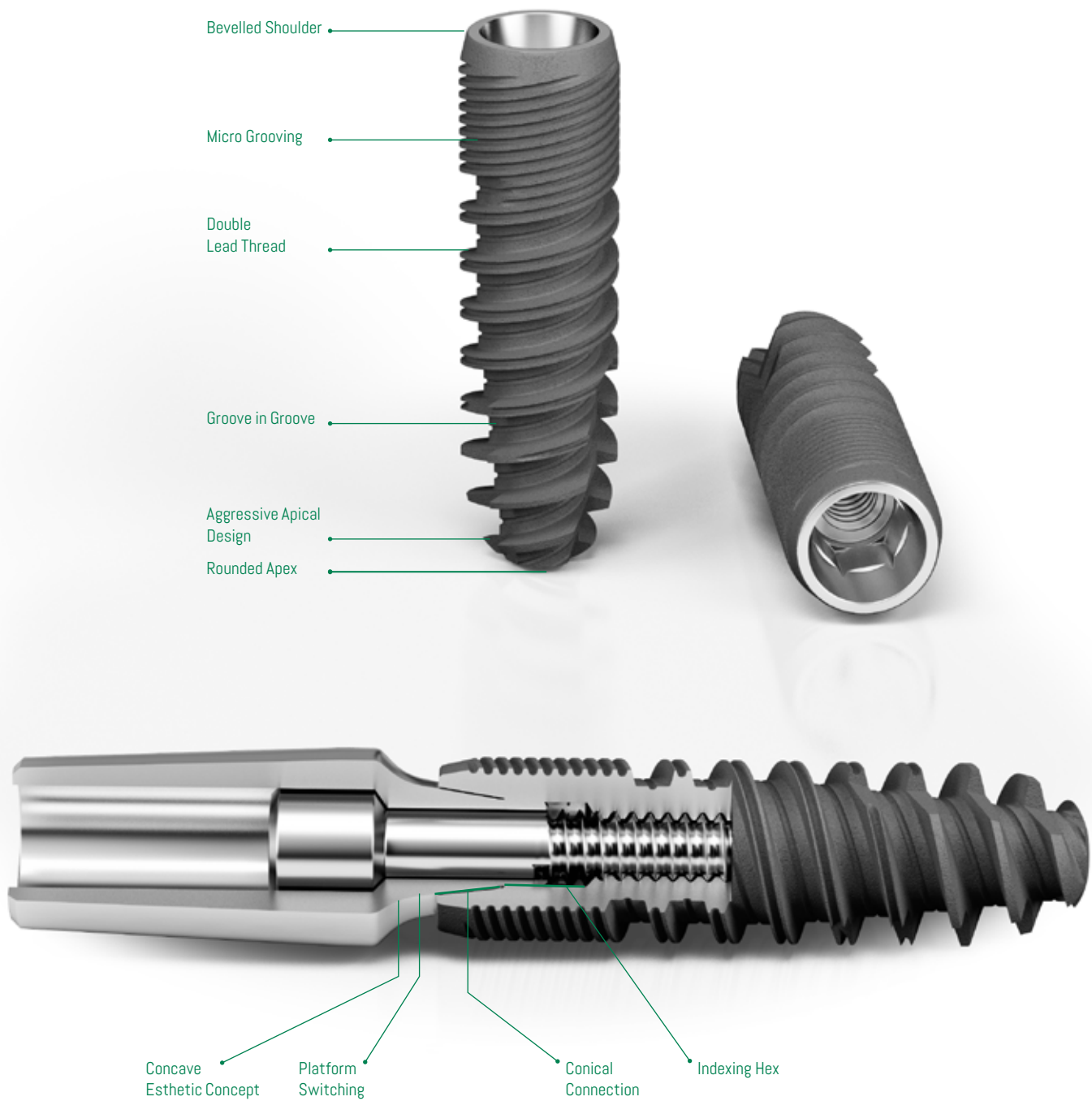
- Increased bone to implant contact

### Platform switching

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

### Indexing hex

- Antirotational security



## 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	item#
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

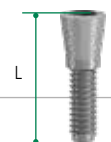
Material: titanium grade 5

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



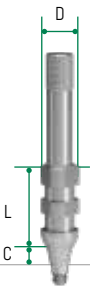
ND-5052HX

# 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



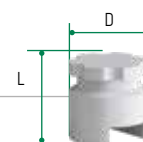
ND-3042

## Closed tray impression transfer

### Plastic impression cap

L	D
5	4

Material: plastic

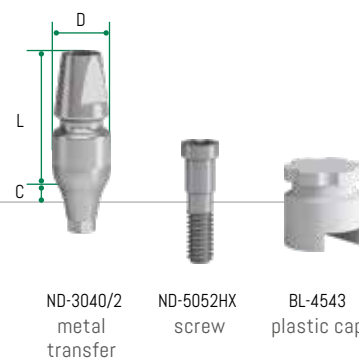


BL-4543

### 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

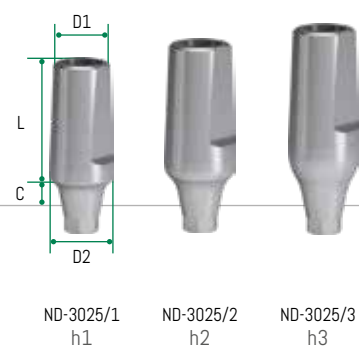
## Titanium abutments

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

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

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

Material: titanium grade 5



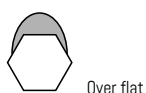
ND-3025/1  
h1

ND-3025/2  
h2

ND-3025/3  
h3

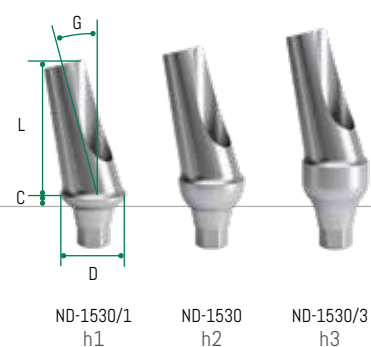
### Titanium 15° angled abutments Includes screw ND-5052HX

L	D	C	Fixture	G	item#
6	4	1		15°	ND-1530/1
		2			ND-1530
		3			ND-1530/3



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

Material: titanium grade 5



ND-1530/1  
h1

ND-1530  
h2

ND-1530/3  
h3

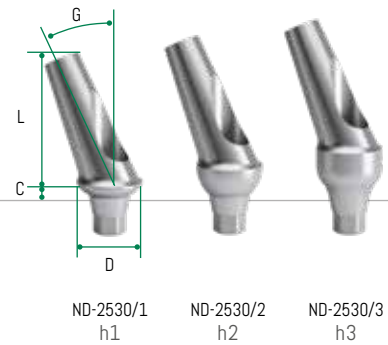


## Titanium 25° angled abutments Includes prosthetic screw ND-5052HX

L	D	C	Fixture	G	item#
6	4		1	25°	ND-2530/1
			2		ND-2530/2
			3		ND-2530/3



Over flat



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

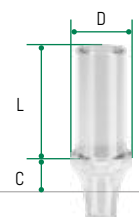
Material: titanium grade 5

## Castable abutment Includes prosthetic screw ND-5052HX

L	D	C
7.5	3.8	2

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

Material: Plexiglass



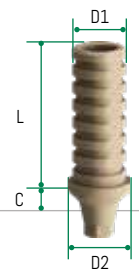
ND-5830

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

L	D1	D2	C
8	3.8	4	1

**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
4.65	4.25	2

**TIGHTENING:** with torque ratchet 20 Ncm

Material: Titanium grade 5

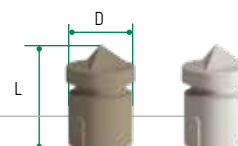


ND-6047

**Scanbody for CEREC® base**

L	D
6.55	3.9

Material: Plastic



BL-6047/1S  
for Omnicam

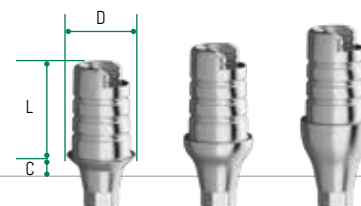
BL-6047/2S  
for Bluecam

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

L	D	C	Fixture	item#
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

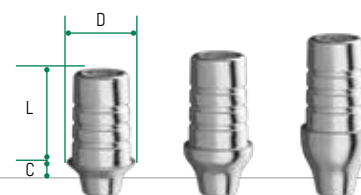
ND-6043  
h3

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

L	D	C	Fixture	item#
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
945	3.8

**TIGHTENING:** with torque ratchet 20 Ncm

Material: PEEK



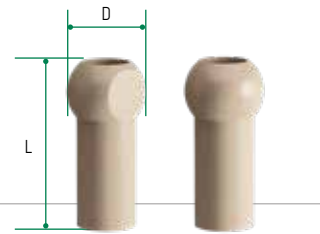
ND-6040  
NON ROTATING

**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

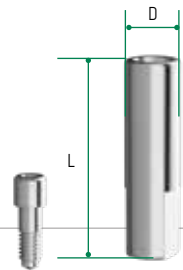
ND-6044PR  
ROTATING

**3D Analog** Compatible 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

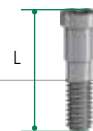
ND-DG5143

**Prosthetic screw**

L
7.7

**TIGHTENING:** with torque ratchet 20 Ncm

Material: titanium grade 5



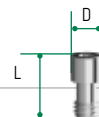
ND-5052HX

**Scan screw**

L	D
6.1	3

**TIGHTENING:** with torque ratchet 15 Ncm

Material: titanium grade 5



ND-SCANSCREW

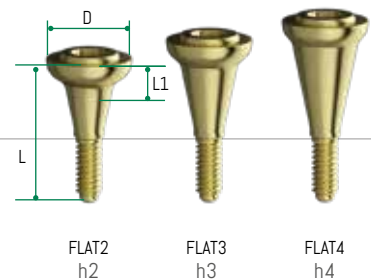
## Flat abutments

### Flat abutments

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

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

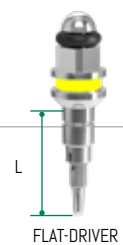
Material: Titanium grade 5



### Driver for Flat abutments

L	item#
9.85	FLAT-DRIVER

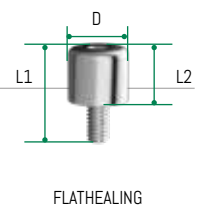
Material: Stainless steel



### 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

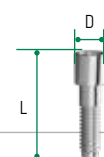


### Flat connecting screw

L	D
64	2

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

Material: titanium grade 5



FLATSCREW

Flat analog

L	D
12.5	4

Material: titanium grade 5



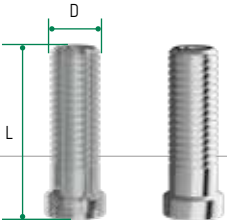
FLAT-AN

Flat casting and titanium cylinder Includes prosthetic screw FLATSCREW

L	D	item#
11.5	3.6	FLAT-CAST
		FLAT-TIT

TIGHTENING: with torque ratchet 15 N=Ncm

Material: Plexiglass and titanium grade 5



FLAT-CAST

FLAT-TIT

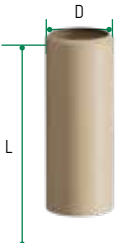
CAD CAM for flat abutments

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



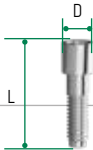
FLAT-SCAN

Flat prosthetic screw

L	D
64	2

TIGHTENING: with torque ratchet 15 N=Ncm

Material: titanium grade 5



FLATSCREW

## 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

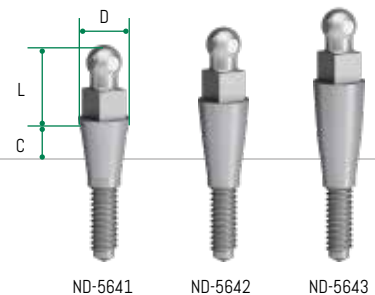
D	L
8.5	7

Material: Stainless steel



## O-Ball abutments

L	D	C	item#
3.77	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

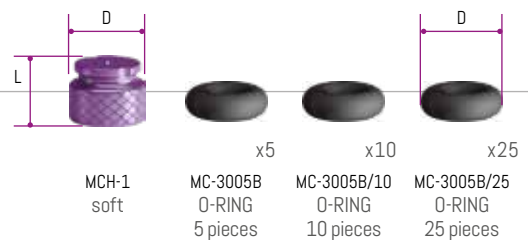
## Soft retention caps

L	D
3.5	4.7

Material: Titanium grade 5

o-ring	D
	44

Material: FDA Buna



Available in single packages: MCH-1

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

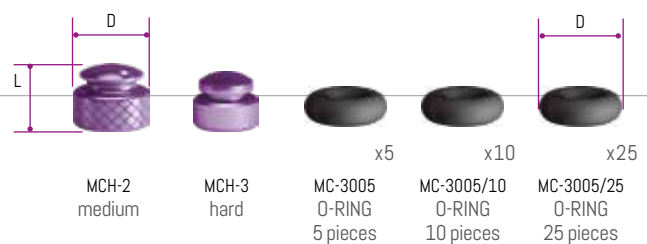
## Medium & hard retention caps

L	D	item#
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

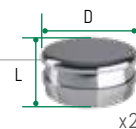
Available in packages of 4 caps: MCH-2/4, MCH-3/4

## Anchor abutment system

### Metal housing 2 pieces

L	D
1.98	4.5

Material: Titanium grade 5



141CAE

### Plastic caps 4 pieces

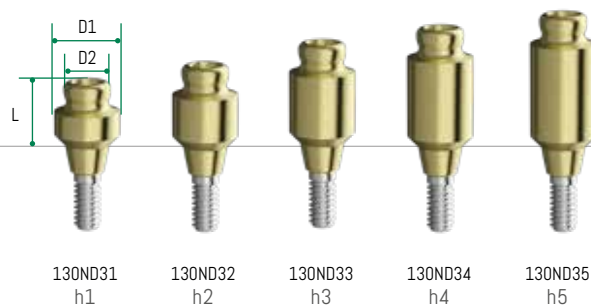
L	D
1.78	3.8

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



### Anchor abutment

L	D1	D2	item#
24	4.3	2.5	130ND31
34			130ND32
44			130ND33
54			130ND34
64			130ND35



**TIGHTENING:** with torque ratchet 25 Ncm

#### Complete set includes:

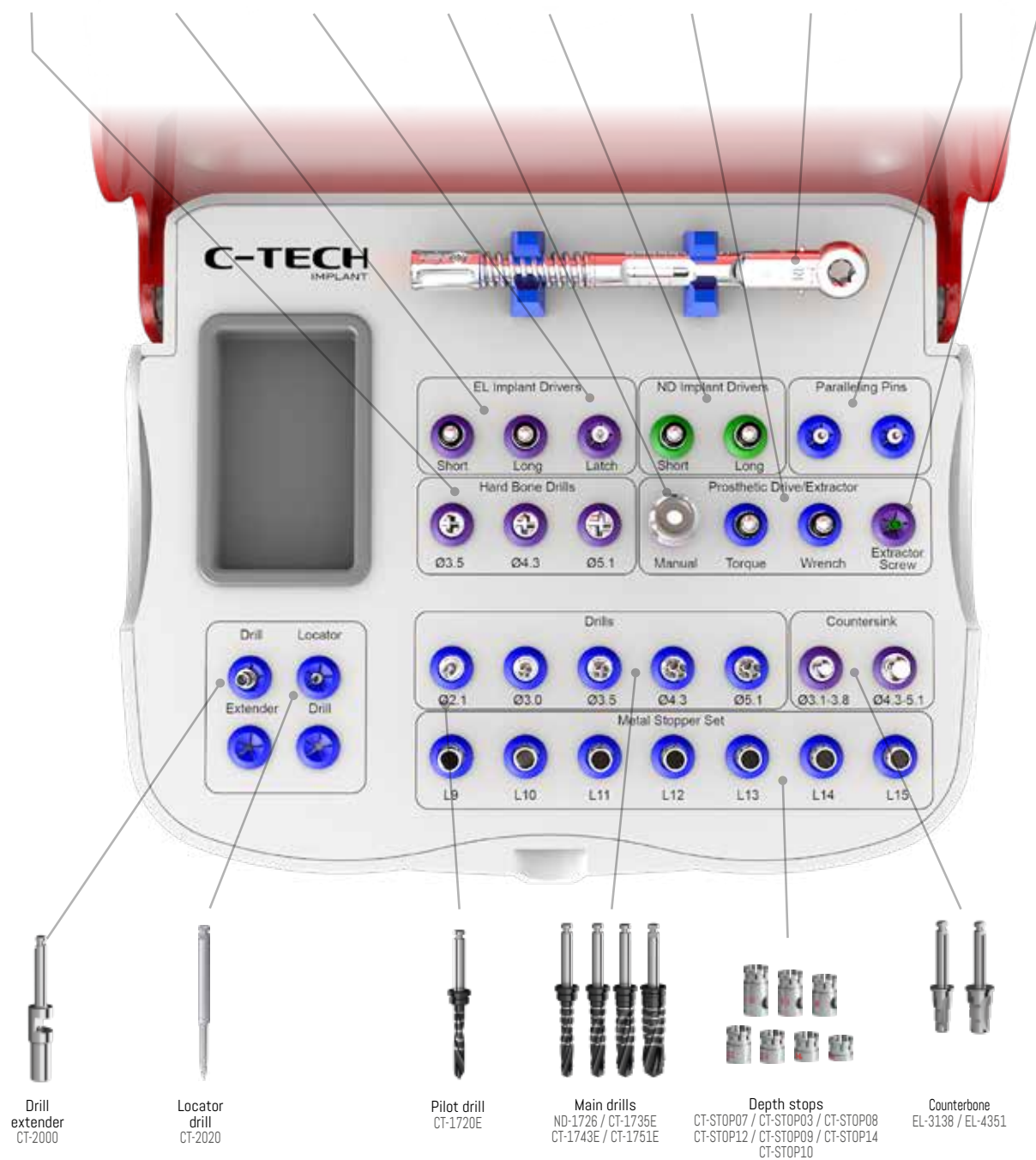
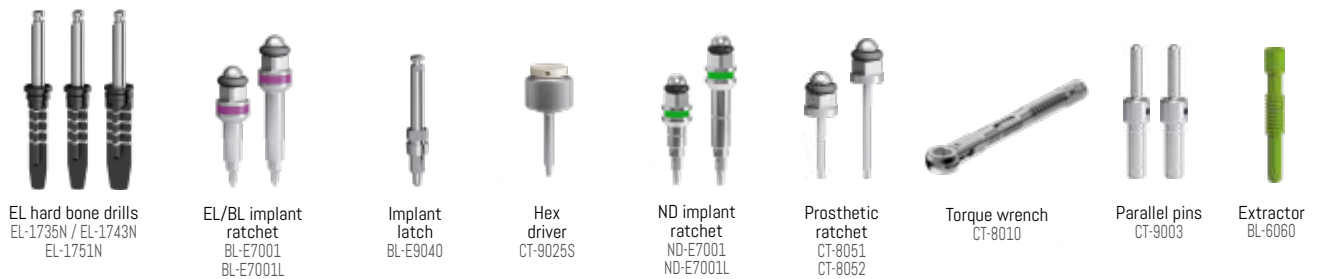
- 1 Anchor abutment (Ref. 130ND31, 130ND32, 130ND33, 130ND34, 130ND35)
- 1 Stainless steel housings (Ref. 141CAE)
- 1 Retentive caps - violet "strong" (Ref. 140CEV)
- 1 Retentive caps - white "standard" (Ref. 140CET)
- 1 Retentive caps - pink "soft" (Ref. 140CER)
- 1 Retentive caps - yellow "extra-soft"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

Material: Titanium grade 5



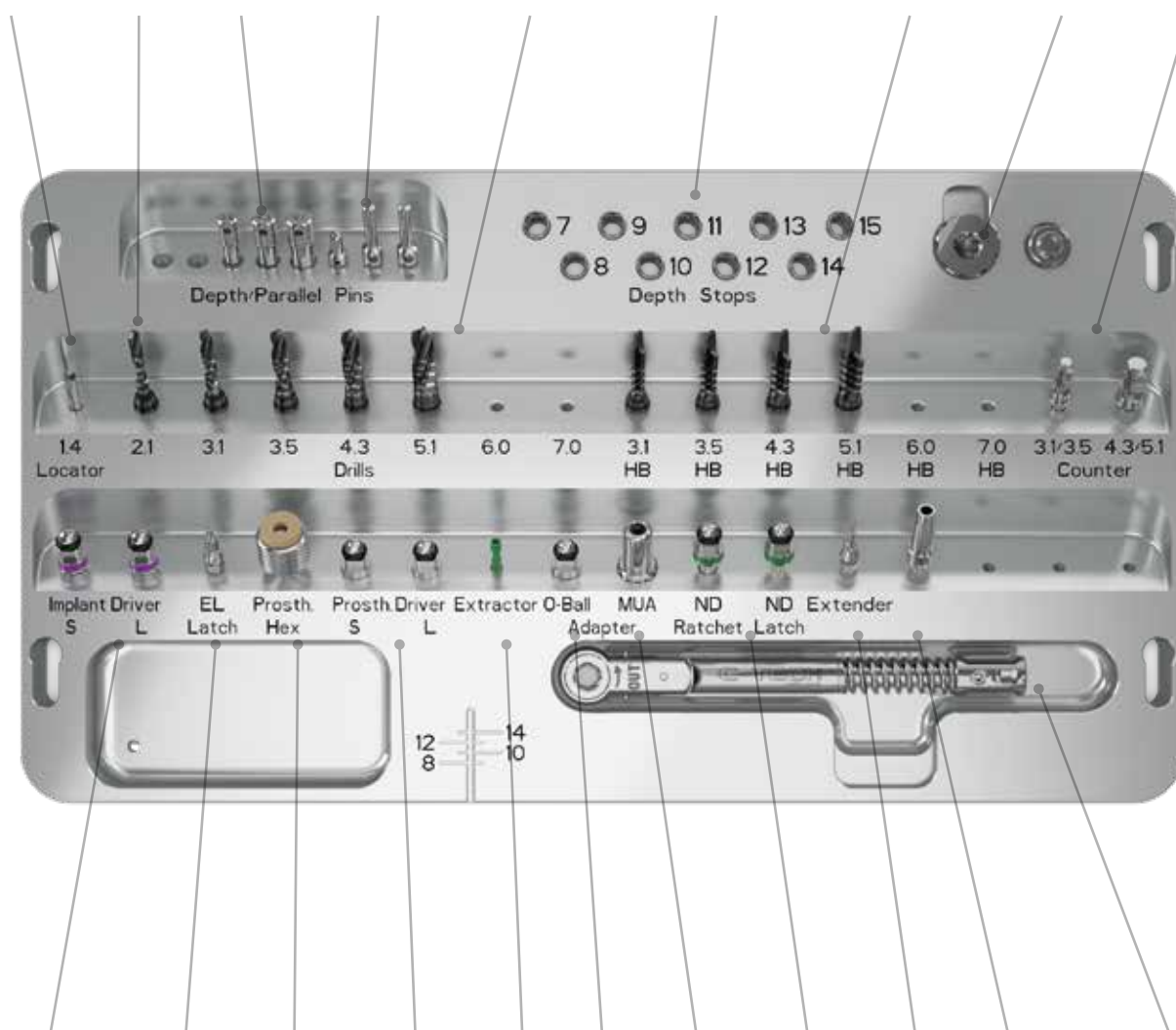
## ND Surgical Kit

EL-SUR.KIT.01



# 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.

## 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



## Bone Expander Kit

OSTKIT01

### Kit Contents

Ratchet  
Ratchet extender  
Latch driver adapter  
Locator drill  
1.4 mm Drill  
2.0 mm Osteotome  
2.3 mm Osteotome  
2.6 mm Osteotome  
3.1 mm Osteotome  
3.3 mm Osteotome  
3.8 mm Osteotome  
4.0 mm Osteotome  
4.2 mm Osteotome  
4.5 mm Osteotome

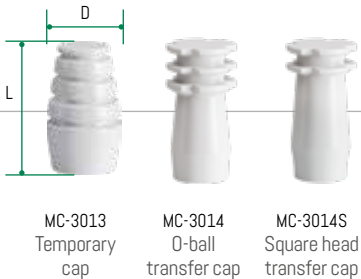


Laboratory accessories

O-ball temporary and transfer caps

D	L	item#
4.0	7	MC-3013
4.5	64	MC-3014
4.5	64	MC-3014S

Material: POM



Collared analog

D	L
2.6	15.8

Material: Titanium grade 5

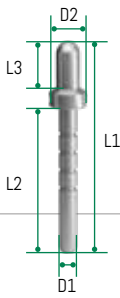


Instruments

Combined depth paralleling pins

L1	L2	L3	D1	D2
23.5	16.5	5.5	1.9	2.5

Material: Titanium grade 5



Paralleling pin

L1	L2	L3	D1	D2
24.2	14.2	10.2	2	2.6

Material: Titanium grade 5



## Drill Extender

L
25

**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

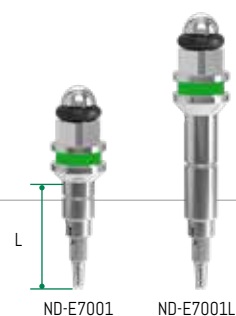


CT-2000

## Implant ratchet driver

L	item#
9.85	ND-E7001
17.75	ND-E7001L

Material: Stainless steel



ND-E7001

ND-E7001L

## Implant latch driver

L
11.8

Material: Stainless steel

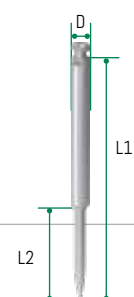


ND-E9040

## Locator drill

L1	L2	D
29	15	1.6

Material: Stainless steel

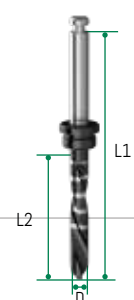


CT-2020

## Initial drill

L1	L2	D
35.2	17.2	2.1

Material: Stainless steel

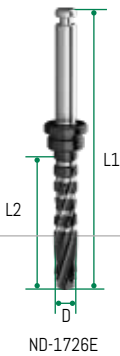


CT-1720E

Main drill

L1	L2	D
36.7	15.9	2.6

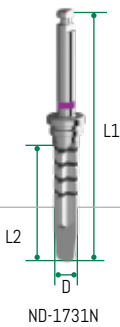
Material: Stainless steel



Hard bone drills

L1	L2	D
34	15.5	3

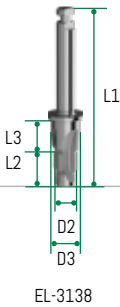
Material: Stainless steel



Counterbore

L1	L2	D2	L3	D3
23.9	4.8	3.1	4.5	3.5

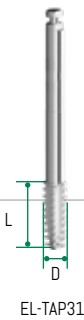
Material: Stainless steel



Bone Tap

L	D
10	3.1

Material: Stainless steel



Stops

L	D	item#
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

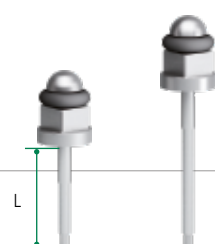


BL-9019

## Torque wrench attachments

L	item#
12.5	CT-8051
18.5	CT-8052

Material: Stainless steel



CT-8051

CT-8052

## Hex drivers

L	item#
9.8	CT-9025XS
12.5	CT-9025S
18.5	CT-9025

Material: Stainless steel



CT-9025XS

CT-9025S

CT-9025

## Butterfly driver

D	L
8.5	7

Material: Stainless steel



MC-3002

## O-ball driver

L
8

Material: Stainless steel



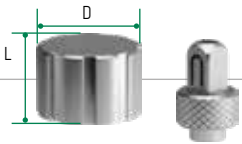
MC-3003M



Finger adapter

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

Material: Stainless steel



CT-E7002  
for ratchet  
drivers

CT-E7003  
for latch  
drivers

Hand driver

Material: Stainless steel



EL-3016

Torque Wrench 50Ncm

Material: Stainless steel



CT-8010

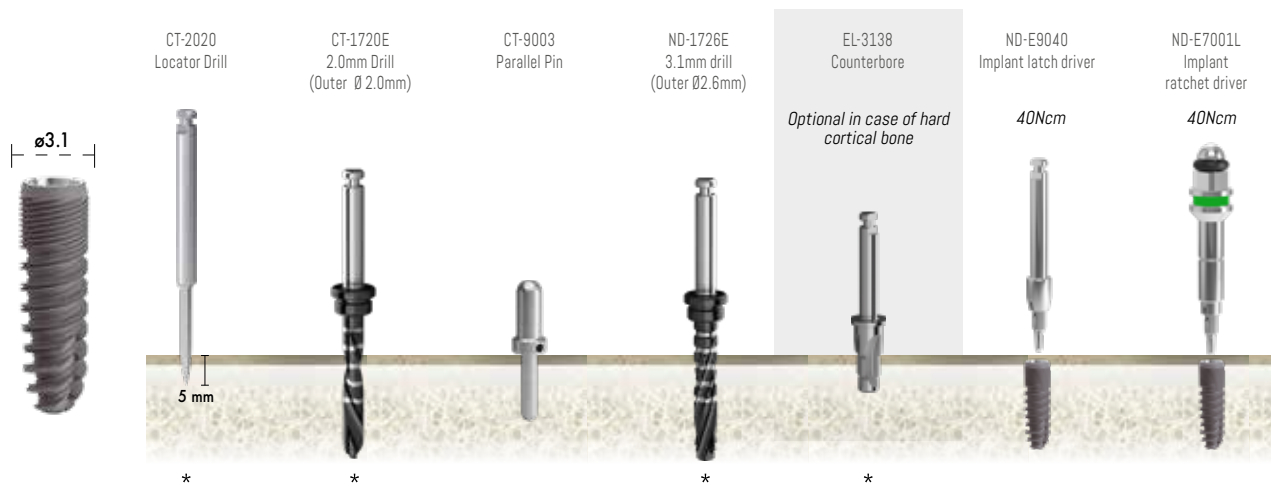
Torque Wrench PEEK

Material: Stainless steel and PEEK

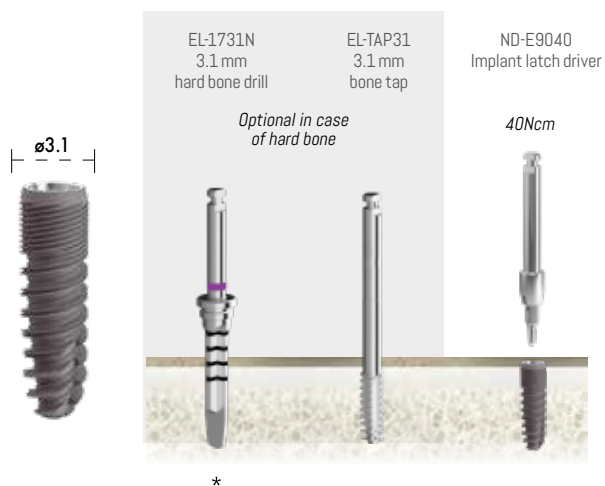


CT-8010PEEK

## Site preparation D1/D2



## Site preparation D3



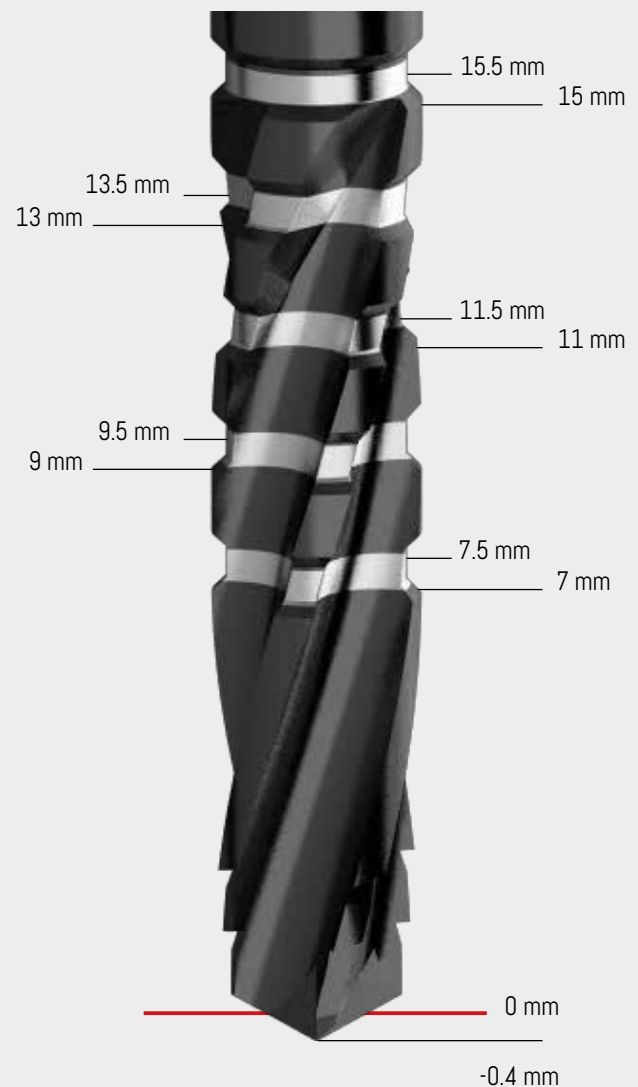
\*Depth: Minimum 1mm deeper than length of implant is to allow for subcrestal seating.

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 first 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.








## Implant packaging

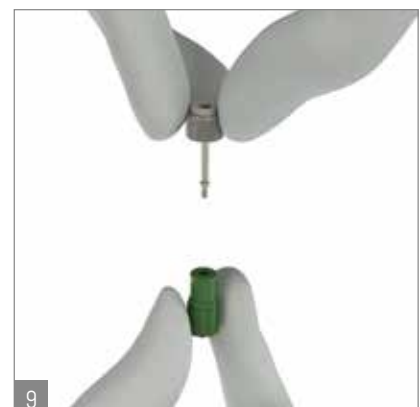
To ensure the highest level of security, our implants are placed into a double vial inside an airtight blister pack. Within the vials the implant is maintained upright by a titanium ring and supported at the implant apex by the titanium cover screw.



## Implant labeling

	 +D759ND30091/\$\$32303121518D		HIBC Health Industry Bar Code Format
Lot number	Rev.05 of 09/11/2015 <b>LOT 1518</b>	<b>SIZE: 3.0 x 9 mm</b>	Implant dimension
Production date	<b>2018-04</b>	<b>REF/</b>	
Expiration date	<b>2023-03</b>	<b>REORDER:ND-3009</b>	
The device must be use exclusively by the physician	  	 <b>STERILE R</b>	ISO and CE Certification by TÜV SÜD
	Read the instruction sheet	Single-use	Sterilization with gamma rays
		<b>Made in Italy</b>	Implant code/reference

Implant vial protocol



This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.



English version



Rev 06 - 04/2020

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