

mis[®] | C1
A Conical Connection Implant

mis[®]
MAKE IT SIMPLE

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MIS Warranty:

MIS exercises great care and effort in maintaining the superior quality of its products. All MIS products are guaranteed to be free from defects in material and workmanship. However, should a customer find fault with any MIS product after using it according to the directions, the defective product will be replaced.

Warning: Products should be used by licensed dentists only.



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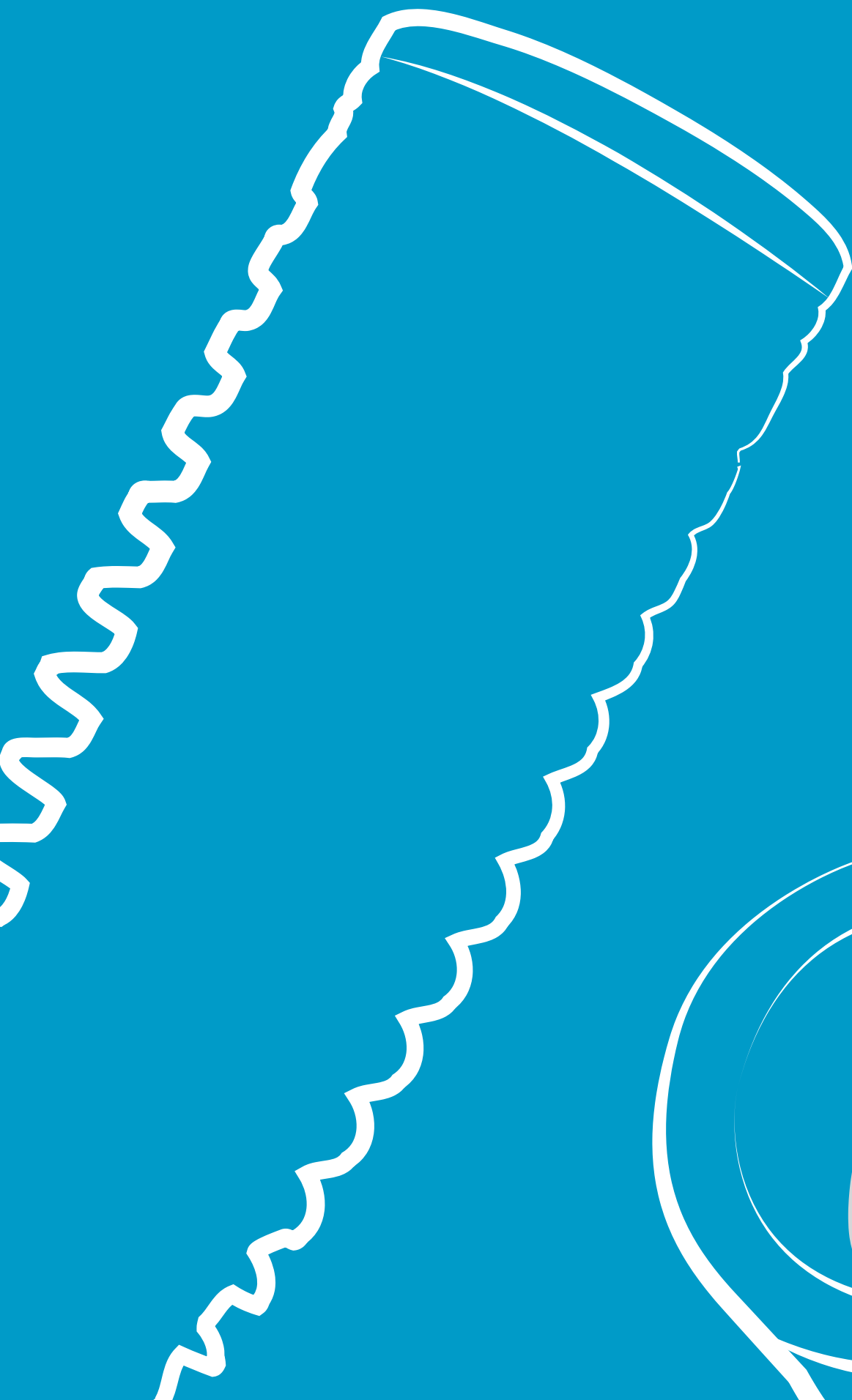
Packaging

The C1 implant system is an advanced implant design that offers a unique combination of surgical and restorative benefits, including a differential thread design to ensure superior initial stability in different clinical situations, platform switching and a conical connection with an anti-rotation index. Each C1 implant comes with a single-use final drill to ensure a safer and more accurate drilling procedure.



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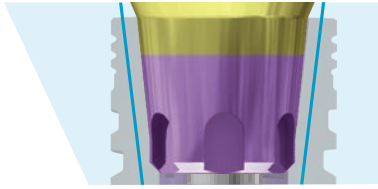


Advantages.

All C1 implants, superstructures and tools are color-coded for simple and immediate identification of the platform size.



C1 conical connection implants



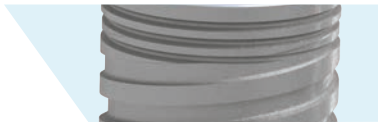
The C1 implant

Featuring a 6-degree conical connection that ensures a secure fit between abutment and implant, the C1 minimizes micro-movements reducing bone loss at the crestal level. It has a six-position cone index within the conical connection to help orient the implant during insertion as well as placing the abutment into the proper position.



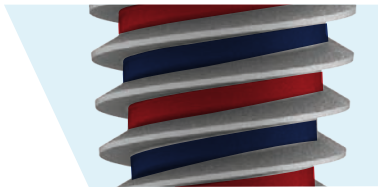
Platform switching

The C1 platform switching keeps the implant-abutment connection away from the bone; minimizing bone resorption. Platform switching additionally allows more vital growth of the soft tissue.



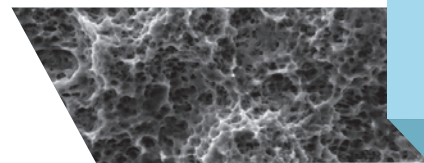
Micro-rings

At the neck of the C1, micro-rings significantly increase the BIC (Bone to Implant Contact), avoiding bone resorption at the crestal zone.



Dual thread

The C1 dual thread design increases the BIC (Bone to Implant Contact) over the entire body of the implant. The dual thread doubles the implant insertion rate (1.50mm), facilitating a simpler and faster implant placement.



Surface treatment

C1 implants are sand-blasted and acid-etched. These surface treatments increase the implant surface area by creating both micro and nano-structures and eliminating various surface contaminants.



Conical shape

With its conical, root-shaped geometry and a unique thread design, C1 ensures a superior primary stability and offers the ultimate choice for a wide range of clinical cases and loading protocols. Its root-shaped design makes C1 ideal for narrow spaces, restricted by adjacent teeth or implants.



Two spiral channels and domed apex

The C1 features a domed apex, providing a high tolerance and safe procedure during insertion. Two cutting blades at the implant apex establish the self-tapping properties of the C1; supporting a simpler, safer and faster procedure.

Screw type implant range
Narrow Platform

Length		10mm	11.50mm	13mm	16mm
Type		C1-10330	C1-11330	C1-13330	C1-16330
Ø3.30 mm					

Surgical Tools

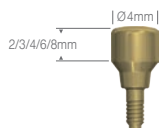
**CT-NLI10**Coni. con. long
insertion tool, NP**CT-NSI10**Coni. con. short
insertion tool, NP**MT-SRA10**Square connection
to ratchet adapter**MT-SHA10**Hand wrench
square connection

Implant cover screw and healing caps

Available for heights: 2,3,4,6,8mm



CC1-00330

CN-HS233
CN-HS333
CN-HS433
CN-HS633
CN-HS833

Ø3.30mm
Narrow Platform

Catalog No.	Dimensions	
C1-10330	Ø3.30mm length 10mm	
C1-11330	Ø3.30mm length 11.5mm	
C1-13330	Ø3.30mm length 13mm	
C1-16330	Ø3.30mm length 16mm	

Titanium Alloy Ti 6Al 4V ELI
Sand-Blasted and Acid-Etched

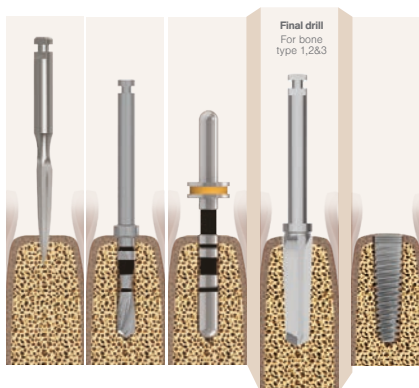
Single-use final drill

A specially designed final drill for 10mm, 11.50mm, 13mm and 16mm implants is supplied with every implant, allowing a short, sterile and safe drilling procedure. This final drill should not be used in type 4 bone.

* The implant package includes: a cover screw, temporary cylinder and a final drill




Ø3.30mm Implant Procedure

Drilling Speed (RPM)	1200-1500	900-1200	200-400	15-25		
Diameter	Ø1.90	Ø2.40	Ø2.40	Ø3	Ø3.60	Ø3.30



- Do not use the final drill for bone type 4
- The drilling sequence is illustrated using a 13mm implant.
- Procedure recommended by MIS cannot replace the judgment and professional experience of the surgeon.

Screw type implant range
Standard Platform

Length	8mm	10mm	11.50mm	13mm	16mm
Type	C1-08375	C1-10375	C1-11375	C1-13375	C1-16375
Ø3.75 mm					
Ø4.20 mm	C1-08420	C1-10420	C1-11420	C1-13420	C1-16420
					

Surgical Tools



CT-SLI10

Coni. con. long insertion tool, SP



CT-SSI10

Coni. con. short insertion tool, SP



MT-SRA10

Square connection to ratchet adapter



MT-SHA10

Hand wrench square connection

Implant cover screw and healing caps

Available for heights: 3,4,5,6mm



CC1-00375



CS-HS375
CS-HS475
CS-HS575
CS-HS675



CS-HA375
CS-HA475
CS-HA575
CS-HA675

Ø3.75mm
Standard Platform

Catalog No.	Dimensions	
C1-08375	Ø3.75mm length 8mm	
C1-10375	Ø3.75mm length 10mm	
C1-11375	Ø3.75mm length 11.50mm	
C1-13375	Ø3.75mm length 13mm	
C1-16375	Ø3.75mm length 16mm	

Titanium Alloy Ti 6Al 4V ELI
Sand-Blasted and Acid-Etched

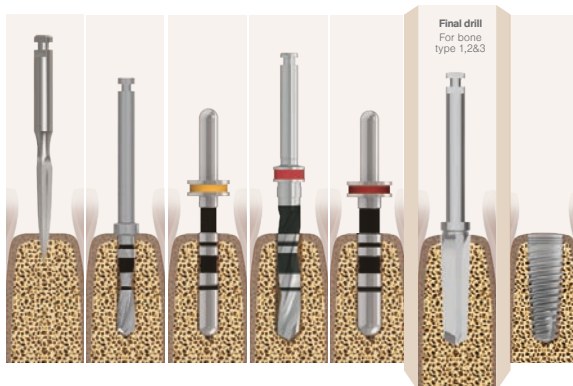
Single-use final drill

A specially designed final drill for 8mm, 10mm, 11.50mm, 13mm and 16mm implants is supplied with every implant, allowing a short, sterile and safe drilling procedure. This final drill should not be used in type 4 bone.

* The implant package includes: a cover screw, temporary cylinder and a final drill

Ø3.75mm Implant Procedure

Drilling Speed (RPM)	1200-1500	900-1200	500-700	200-400	15-25		
Diameter	Ø1.90	Ø2.40	Ø2.40	Ø3	Ø3	Ø3.60	Ø3.75



- Do not use the final drill for bone type 4
- The drilling sequence is illustrated using a 13mm implant.
- Procedure recommended by MIS cannot replace the judgment and professional experience of the surgeon.

Ø4.20mm
Standard Platform

Catalog No.	Dimensions	
C1-08420	Ø4.20mm length 8mm	
C1-10420	Ø4.20mm length 10mm	
C1-11420	Ø4.20mm length 11.50mm	
C1-13420	Ø4.20mm length 13mm	
C1-16420	Ø4.20mm length 16mm	

Titanium Alloy Ti 6Al 4V ELI
Sand-Blasted and Acid-Etched

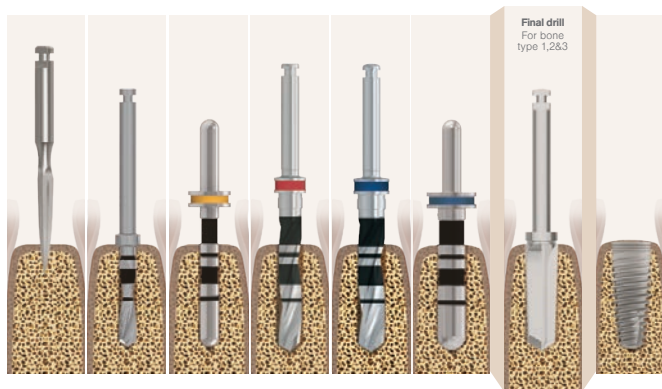
Single-use final drill

A specially designed final drill for 8mm, 10mm, 11.50mm, 13mm and 16mm implants is supplied with every implant, allowing a short, sterile and safe drilling procedure. This final drill should not be used in type 4 bone.

* The implant package includes: a cover screw, temporary cylinder and a final drill

Ø4.20mm Implant Procedure



Drilling Speed (RPM)	1200-1500	900-1200	500-700	400-700	200-400	15-25			
Diameter	Ø1.90	Ø2.40	Ø2.40	Ø3	Ø3.50	Ø3.50	Ø3.50	Ø4	Ø4.20



- Do not use the final drill for bone type 4
- The drilling sequence is illustrated using a 13mm implant.
- Procedure recommended by MIS cannot replace the judgment and professional experience of the surgeon.

C1

Screw type implant range
Wide Platform

Length	8mm	10mm	11.50mm	13mm	16mm
Type	C1-08500	C1-10500	C1-11500	C1-13500	C1-16500
Ø5 mm					

Surgical Tools



CT-WLI10

Coni. con. long insertion tool, WP



CT-WSH10

Coni. con. short insertion tool, WP



MT-SRA10

Square connection to ratchet adapter



MT-SHA10

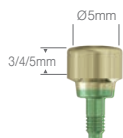
Hand wrench square connection

Implant cover screw and healing caps

Available for heights: 3,4,5mm



CC1-00500



CW-HS350
CW-HS450
CW-HS550



CW-HA350
CW-HA450
CW-HA550

Ø5mm
Wide Platform

Catalog No.	Dimensions	
C1-08500	Ø5mm length 8mm	
C1-10500	Ø5mm length 10mm	
C1-11500	Ø5mm length 11.50mm	
C1-13500	Ø5mm length 13mm	
C1-16500	Ø5mm length 16mm	

Titanium Alloy Ti 6Al 4V ELI
Sand-Blasted and Acid-Etched

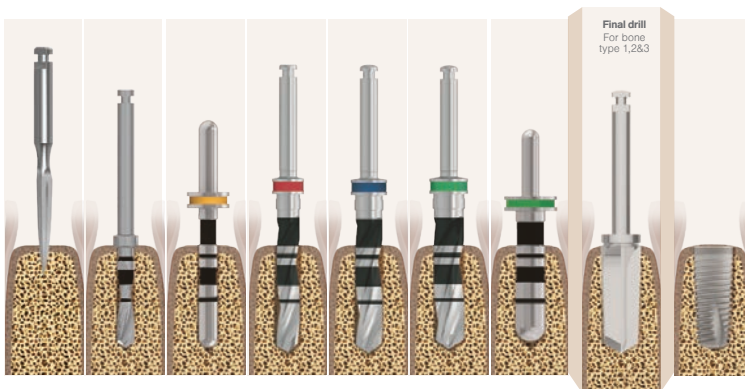
Single-use final drill

A specially designed final drill for 8mm, 10mm, 11.50mm, 13mm and 16mm implants is supplied with every implant, allowing a short, sterile and safe drilling procedure. This final drill should not be used in type 4 bone.

* The implant package includes: a cover screw, temporary cylinder and a final drill

Ø5mm Implant Procedure

Drilling Speed (RPM)	1200-1500	900-1200		500-700	400-700	400-600		200-400		15-25
Diameter	Ø1.90	Ø2.40	Ø2.40	Ø3	Ø3.50	Ø4	Ø4	Ø4.10 Ø4.90		Ø5



- Do not use the final drill for bone type 4
- The drilling sequence is illustrated using a 13mm implant.
- Procedure recommended by MIS cannot replace the judgment and professional experience of the surgeon.

The Complete Prosthetic Kit (CPK) is a comprehensive set designed for the full restoration of parallel inserted implants and restoration of a single implant case.

CPK - Complete Prosthetic Kit.

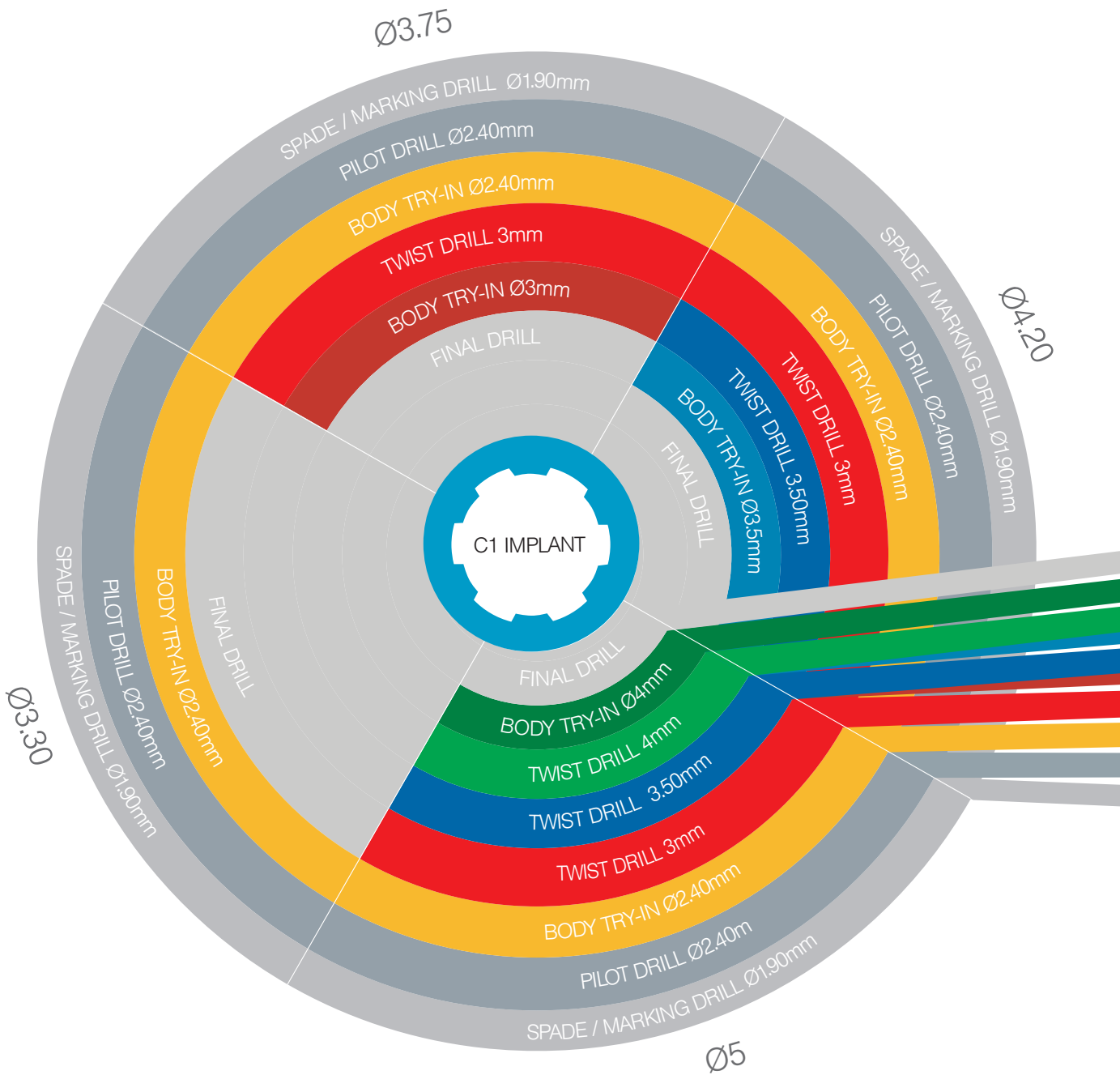
»
AVAILABLE IN
THREE PLATFORMS:

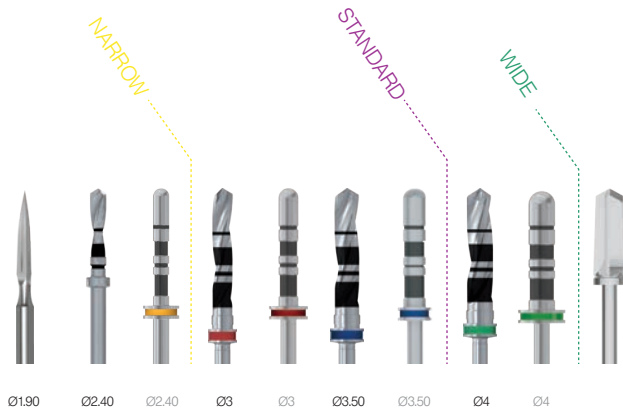
- | | |
|----------|--|
| NARROW | CK-NPK62 |
| STANDARD | CK-CPK61
CK-CPK62
CK-CPK63
CK-CPK64 |
| WIDE | CK-WPK61
CK-WPK62
CK-WPK63
CK-WPK64 |



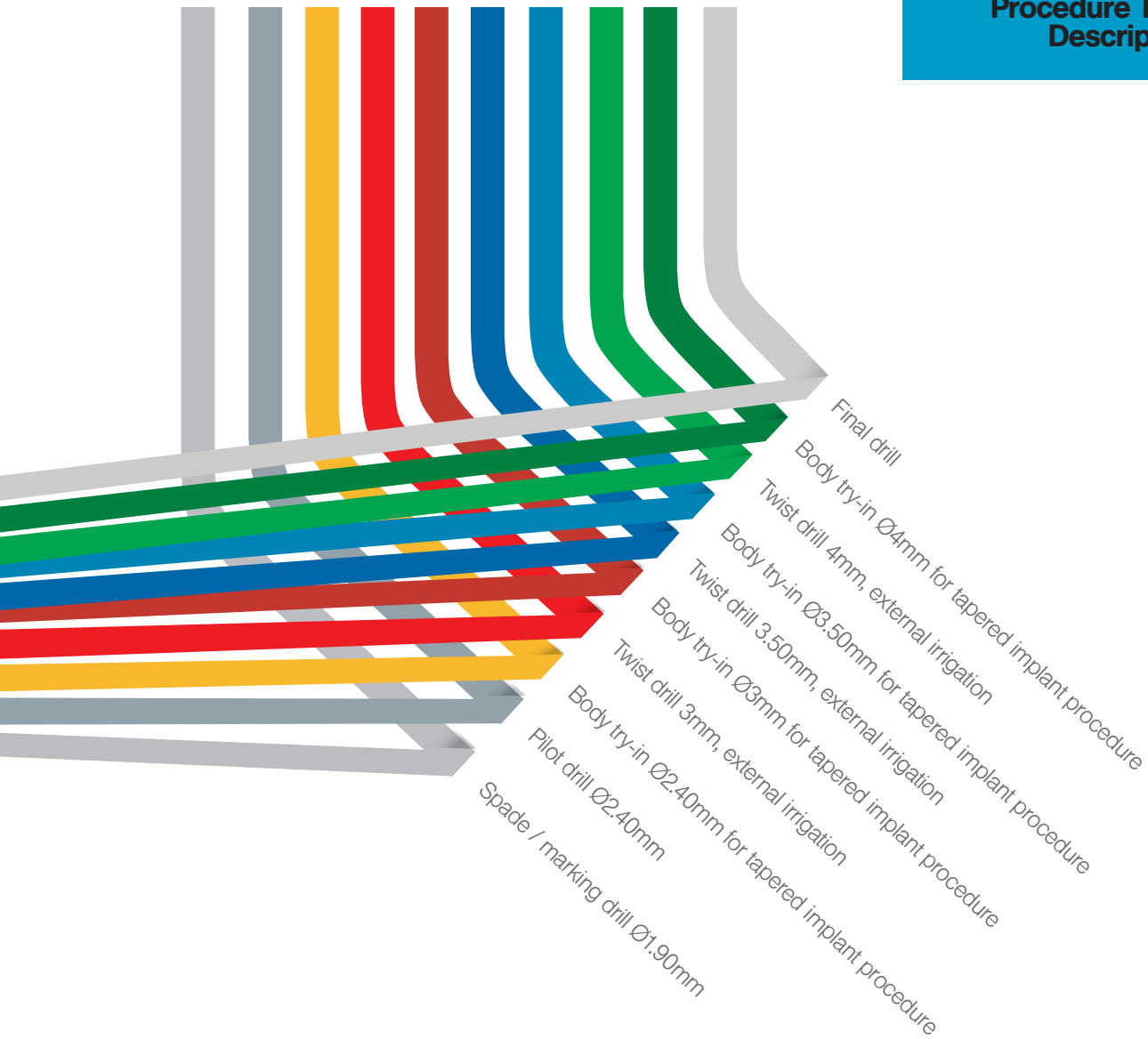
Drilling Procedures.

Initial surgical steps are common for all implant diameters. Additional steps are required as the implant diameter increases.



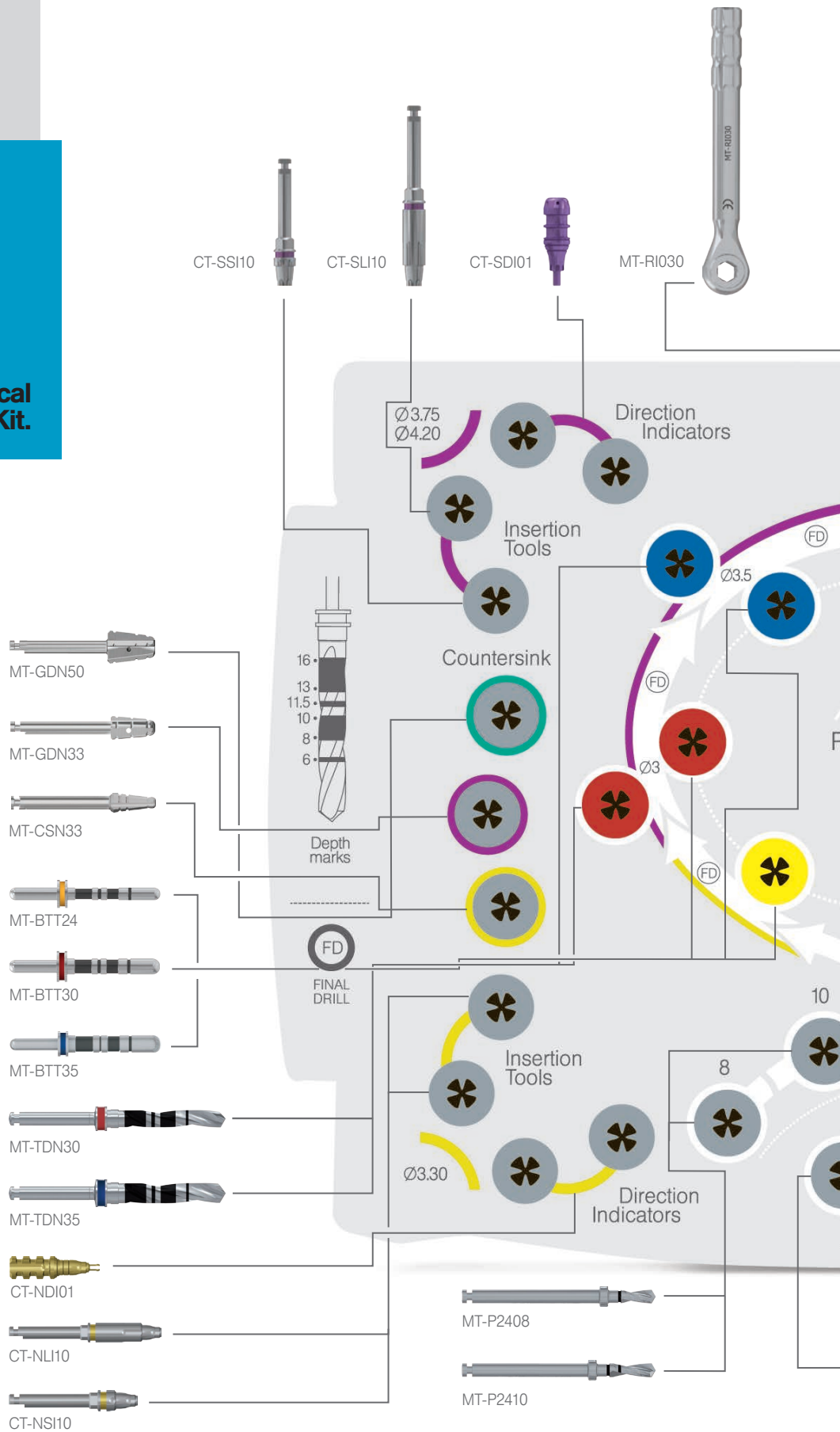


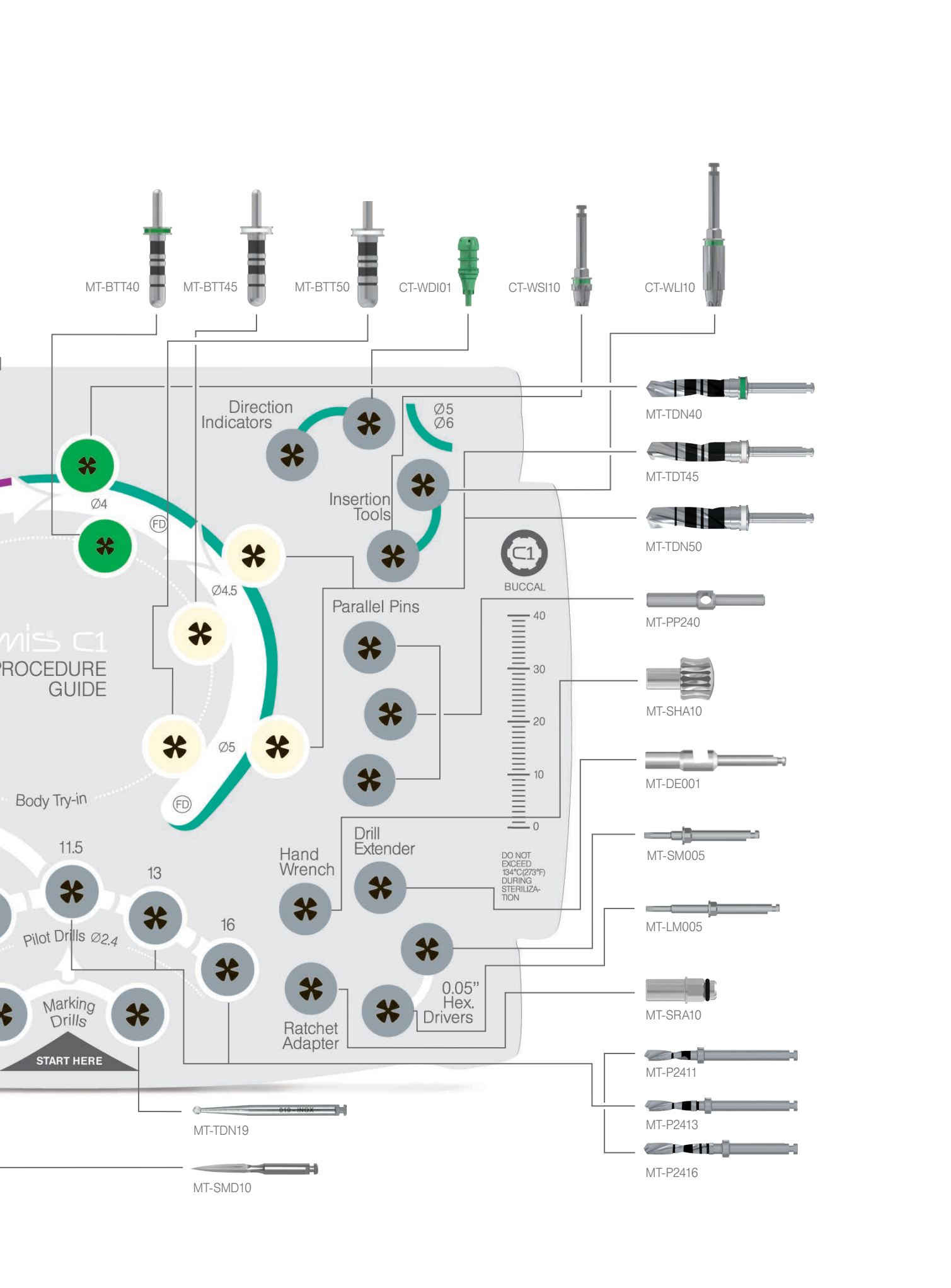
Procedure Tools Description.



Advanced Surgical Instrument Kit.

MK-0044 | With external irrigation drills





MT-BTT40

MT-BTT45

MT-BTT50

CT-WDI01

CT-WSI10

CT-WLI10

Direction Indicators

Insertion Tools

Parallel Pins

Drill Extender

Hand Wrench

Ratchet Adapter

0.05" Hex. Drivers



BUCCAL



DO NOT EXCEED 134°C (273°F) DURING STERILIZATION

MT-TDN40

MT-TDT45

MT-TDN50

MT-PP240

MT-SHA10

MT-DE001

MT-SM005

MT-LM005

MT-SRA10

MT-P2411

MT-P2413

MT-P2416

MT-TDN19

MT-SMD10

mis C1 PROCEDURE GUIDE

Body Try-in

11.5

13

16

Pilot Drills Ø2.4

Marking Drills

START HERE

Ø4

Ø4.5

Ø5

Ø5

Ø6

(FD)

(FD)

(FD)

(FD)

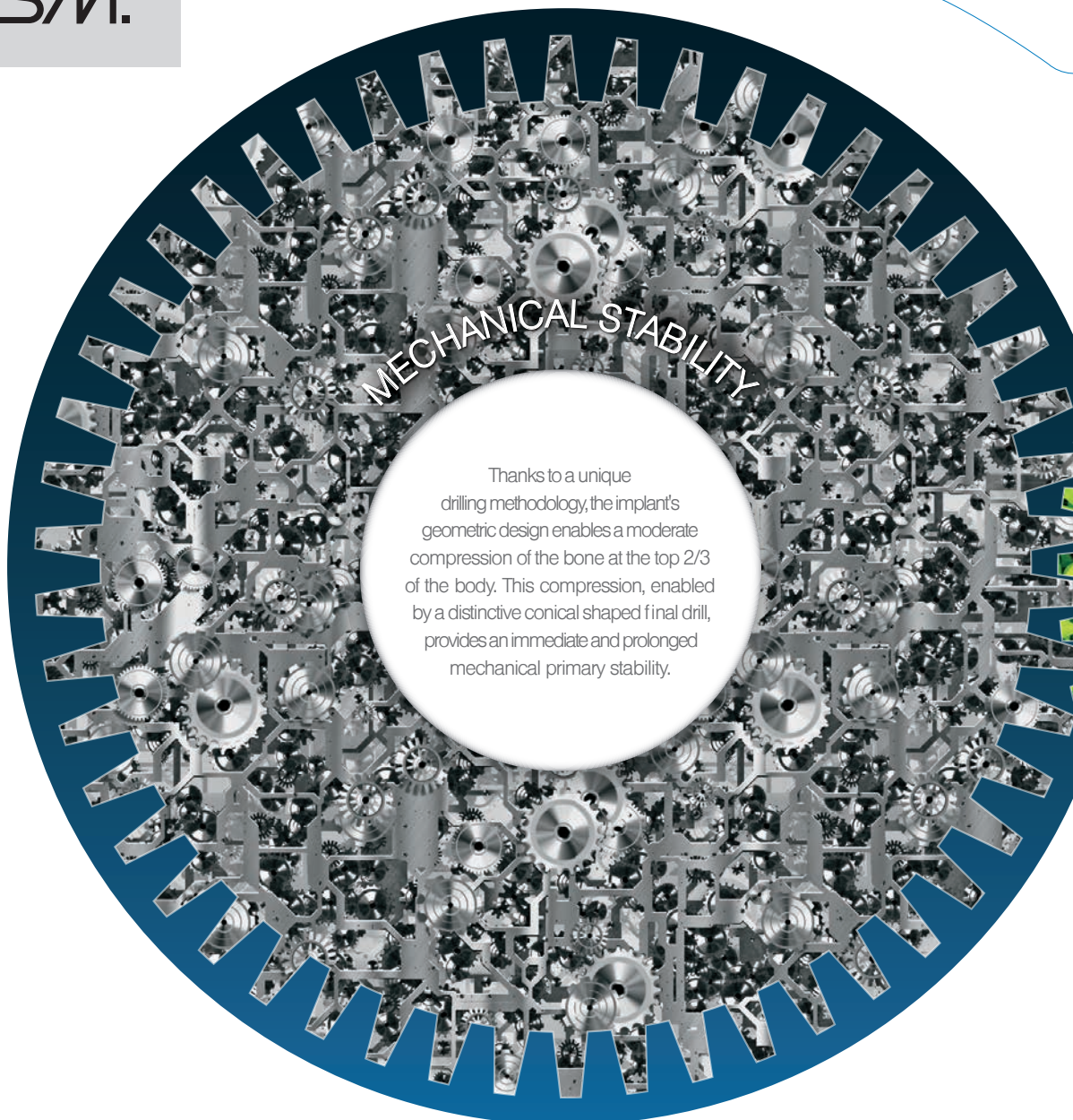
The Dual Stability Mechanism

the C1 offers a Dual Stability Mechanism (DSM). The DSM combines the benefits of high primary stability with an accelerated osseointegration process, minimizing the

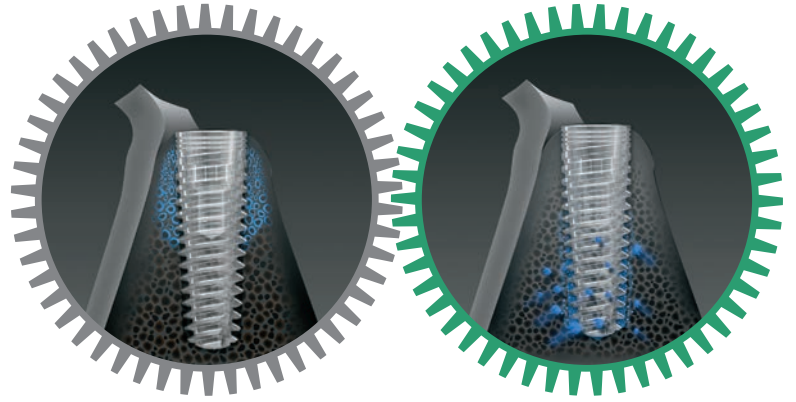
DIP. Enabling moderate compression of the bone at the top 2/3 of the implant body, the conical geometry provides an immediate mechanical primary stability, while the apical 1/3 enables rapid bone growth, minimizing stability

loss during the first weeks after surgery. The secondary stability mechanism is achieved through the differential drilling, that forms specially designed 'compartments' between the implant thread at its apical part; up to one third of

DSM.



the implant body. These 'compartments' prevent bone compression around the area of the implant, providing an ideal habitat for accelerated and sustainable bone growth and osseointegration.



BIOLOGICAL STABILITY

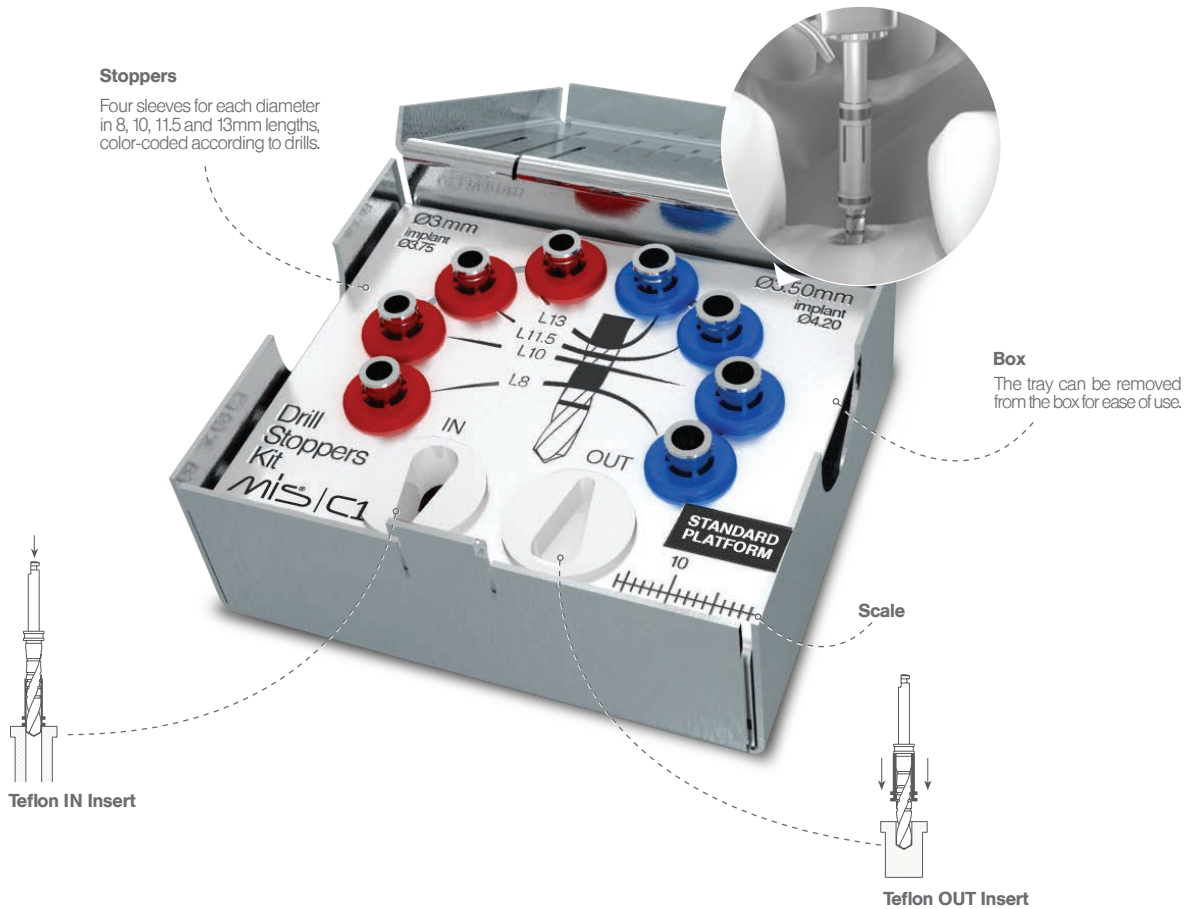
An enhanced secondary biological stability is achieved by integration of the implant's geometry, morphology and a differential drilling approach. The compartments formed between the implant's threads at the bottom 1/3 of the cavity generate an ideal habitat for sustainable bone growth leading to accelerated osseointegration.



Drill Stoppers Kit Standard Platform.

MK-BC101

Following the use of MIS length-based pilot drills, the C1 Standard Platform Stoppers Kit ensures drilling to the exact desired depth. The kit includes the most commonly used lengths: 8, 10, 11.5 and 13mm.



Simple.

Quick, easy assembly

Easy.

Color-coding for quick identification of the sleeve diameter

Safe.

Safe drilling to desired depth

Fast.

Clearly arranged depth sleeves for quick and easy identification of 8-13mm lengths and Ø3, Ø3.5mm diameter stoppers.

Kit Contents

Ø3 stoppers
(for Ø3.75mm implants)



Ø3.50 stoppers
(for Ø4.20mm implants)



Following the use of MIS length-based pilot drills, the C1 Drill Stoppers Length Kits enable safe and easy drilling to the exact desired depth. MIS offers 4 different kits in lengths of: 8, 10, 11.5 and 13mm.

Drill Stoppers Kits Depth Based.

Stoppers

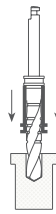
Five sleeves 3.0, 3.5, 4, 4.5 and 5mm diameters, color-coded according to drills

Box

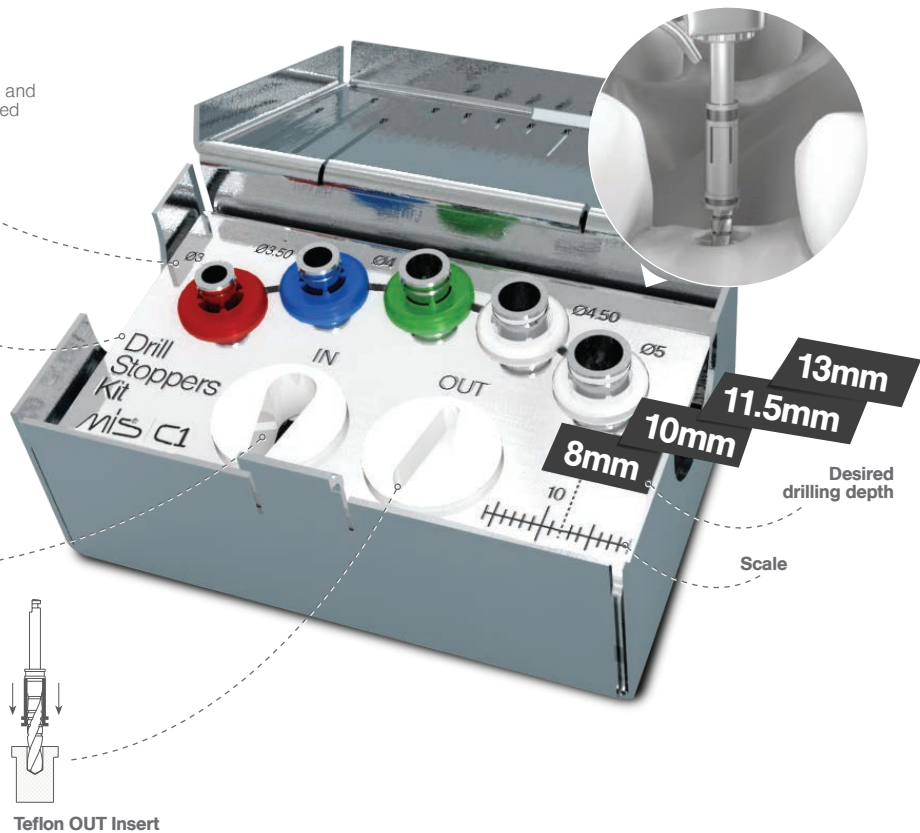
The tray can be removed from the box for ease of use.



Teflon IN Insert



Teflon OUT Insert



Simple.

Quick, easy assembly

Easy.

Color coding for a quick identification of sleeve diameter

Safe.

Safe drilling to desired depth

Fast.

Clearly arranged depth sleeves for quick and easy identification of Ø3mm to Ø5mm diameter drills

Kit Contents

For 8mm implants
MK-CDS08



For 10mm implants
MK-CDS10



For 11.5mm implants
MK-CDS11

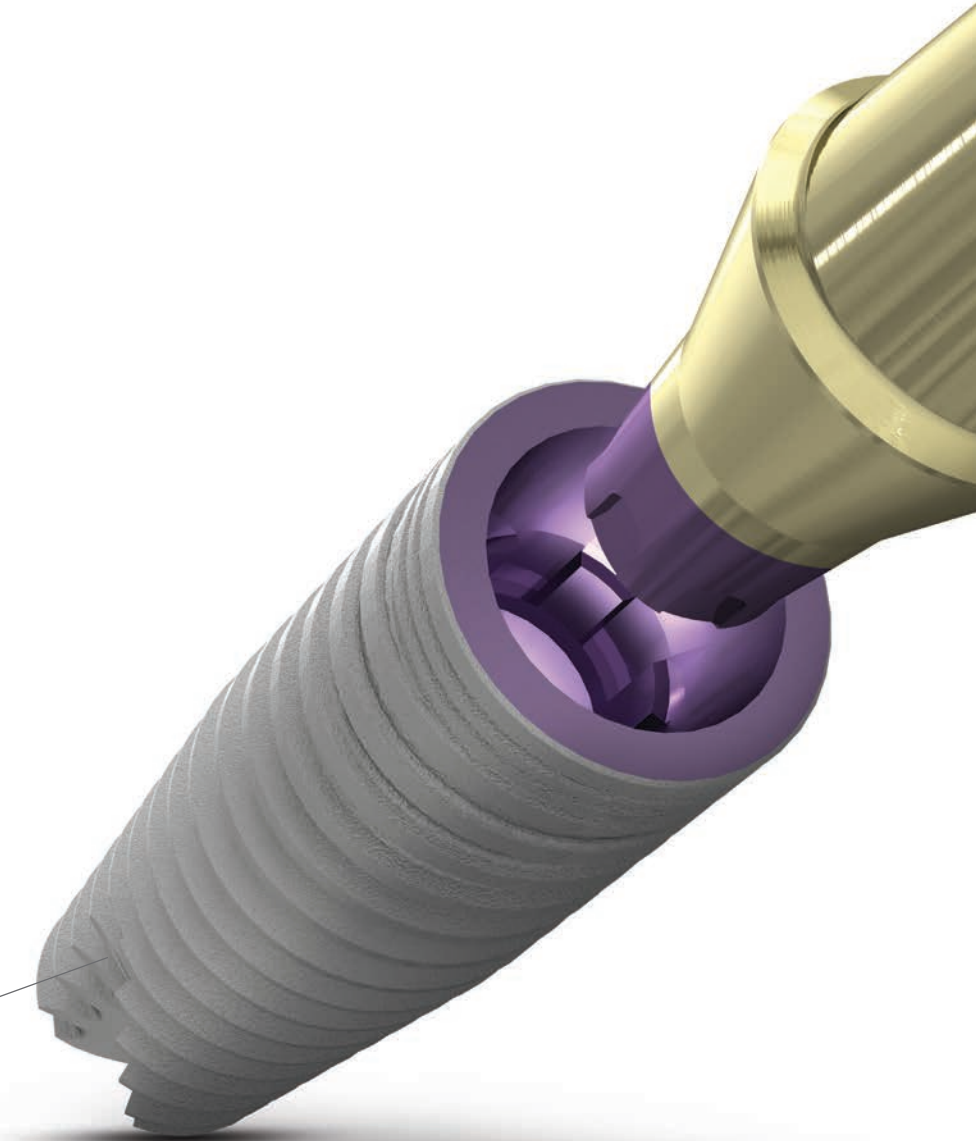
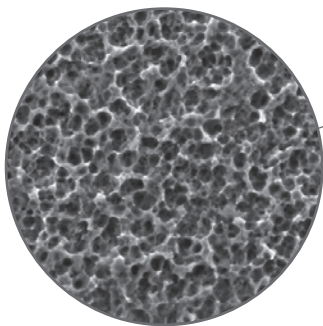


For 13mm implants
MK-CDS13



Success.

A high success rate is achieved through a combination of advanced geometric design and our well-established surface morphology.

**Micro Structure** - Surface Morphology

The surface roughness and microgeometry is achieved by sand-blasting and acid-etching. A larger surface area increases bone-to-implant contact (BIC), resulting in a long term clinical success.



Adsorption of Serum Protein to Modified Titanium Surfaces

M.N. Sela, L.Badihi, G.Rosen, D.Kohavi and D. Steinberg

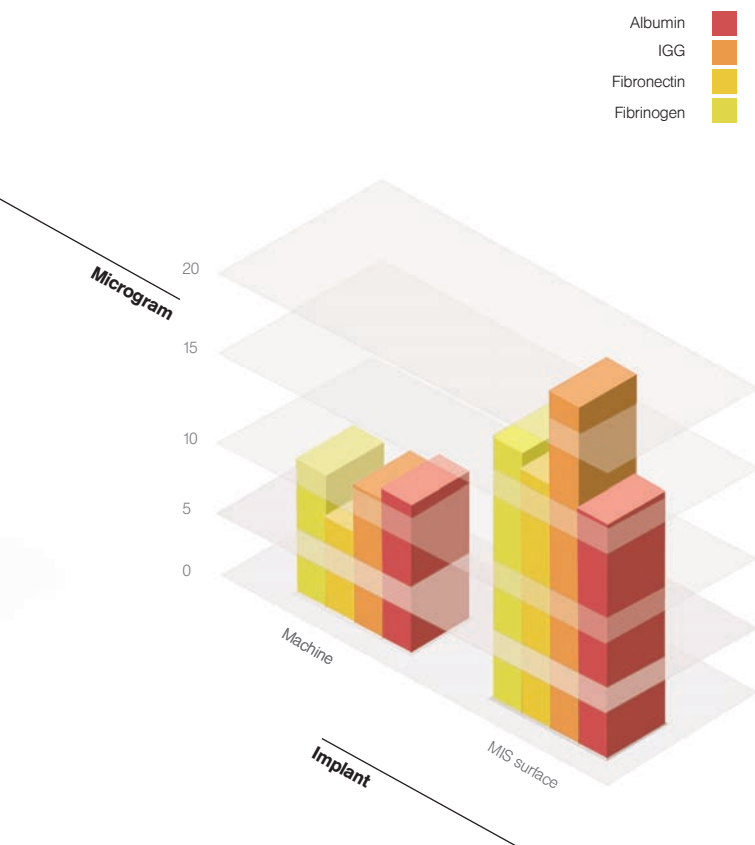
The use of Titanium (Ti) implants is a novel clinical procedure in dentistry. The adsorption of biological molecules to the implant's surface triggers a sequence of events that may determine the outcome of this procedure. Clinical data suggests that modified Ti surfaces play an important role in the success or failure of the implant. Objective: the purpose of this study was to investigate the interaction between Ti implants with different surface properties and serum proteins, in order to find the optimal implant surfaces which may improve the Osseointegration process and implant intake.

Materials & Methods: Six mm in diameter Ti disks with two types of surface modifications were compared: Machined and Sandblast plus Acid-Etched. The disks were coated with mixtures of Human Serum Albumin conjugated with fluorescein (HAS-FITC).

Following incubation, the coat was removed from the disks by SDS. A Confocal Scanning Laser Microscope was used to visualize and measure the HAS-FITC coat and the degree of protein removal from the Ti surfaces.

Results: The Confocal Microscope images revealed a significantly higher amount of HAS-FITC coat on the rough disks, as compared with the machined disks. Furthermore, under similar experimental conditions, less HAS-FITC could be removed from the rough disks than from the machined disks.

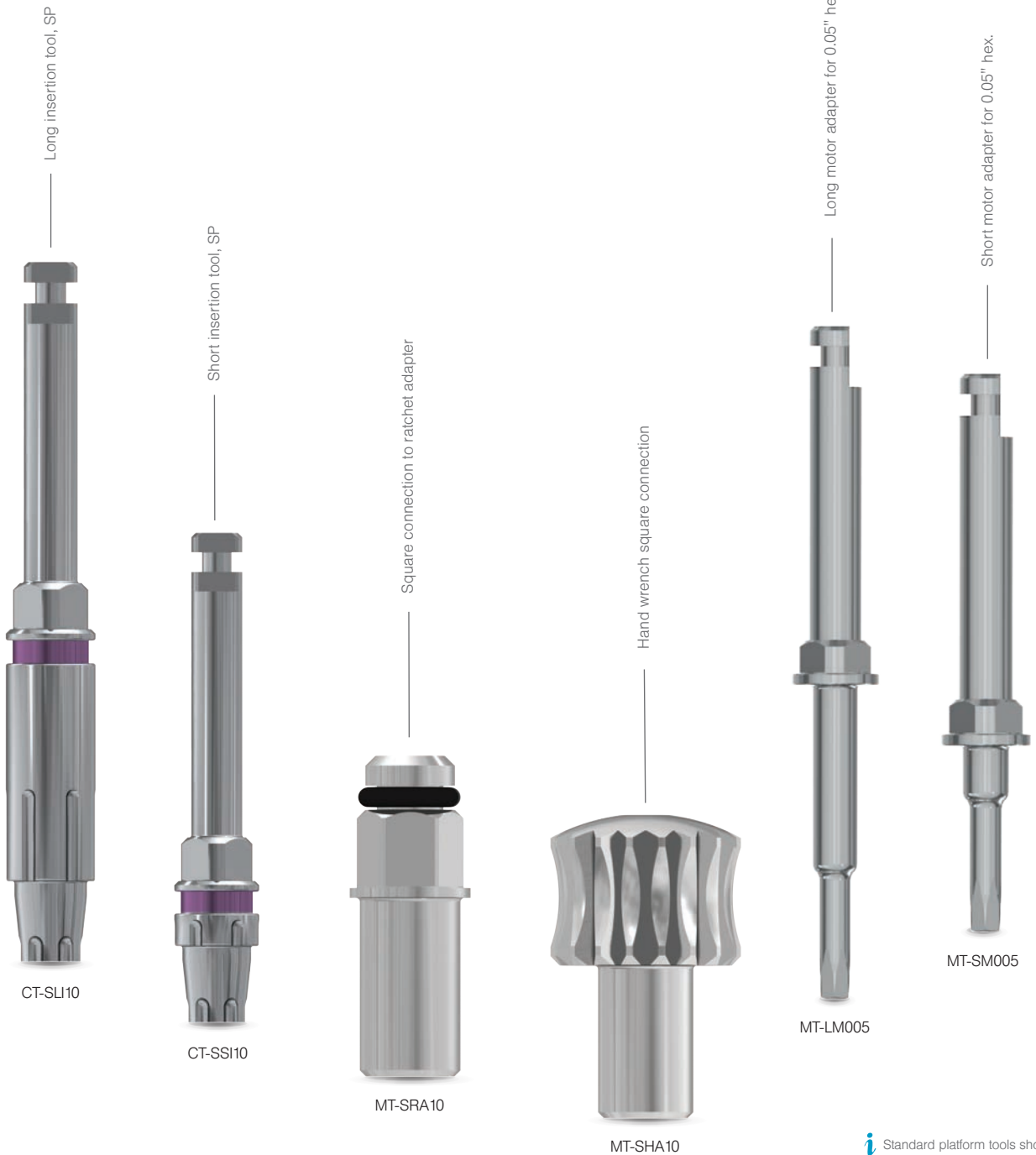
Conclusions: Absorption of albumin to the rough treated Ti surface is both qualitatively and quantitatively far more intense, as compared with the machined surfaces. Further studies of the chemical and physical characterization of the modified Ti surfaces are underway. Moreover, additional serum proteins, as well as oral microorganisms, are being examined for their interactions with the modified Ti surfaces.



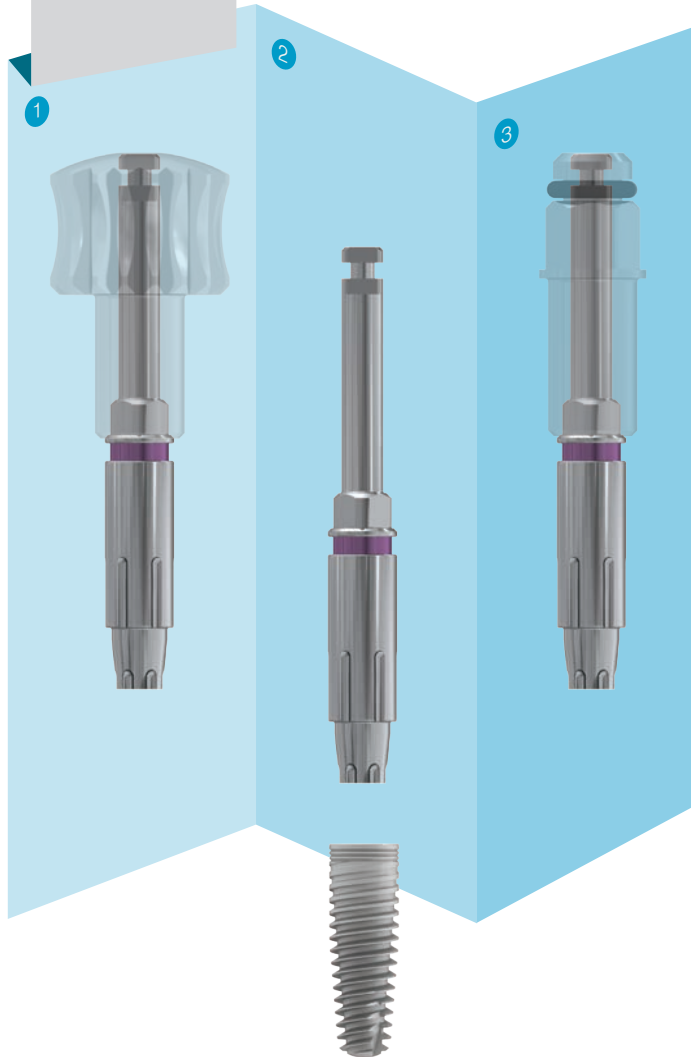
Hebrew University
 Jerusalem, Israel, IADR
 August 03, 2004

Keys & Adapters.

C1 implant placement tools are specially designed to facilitate quick and reliable implant procedures.



**Insertion
Options.**



**"3 in One"
Insertion System.**

The unique "3 in One" insertion system minimizes the number of tools in the surgical kit and maximizes flexibility for the user.

- ① Insertion tool in hand key adapter
- ② Insertion tool for motor
- ③ Insertion tool in ratchet adapter



Package Contents.

Each C1 implant comes with sterilized components for multiple clinical scenarios.

Following the "Make It Simple" philosophy, MIS is proud to be the first to include a comprehensive tool set which includes: a single-use final drill, a cover screw and a temporary cylinder with every C1 implant, meeting all your clinical needs.



Packaging.

Providing a simple, immediate identification of implant type, length and diameter, the C1 package is well designed for ease of use during surgery.

Implant diameter & platform indication

The outer tube is color-coded indicating the implant platform. The numeric indication specifies the implant diameter and length.



Prosthetic platform indication

Prosthetic components are marked by specific colors, representing platform sizes.

A double packing system ensures sterilization and safety. Packages are designed for ease of use during surgery and for use with surgical gloves.



Implant identification markings

Quick identification of implant size and length. Sticker on the box lid, specifies implant diameter, length and platform size

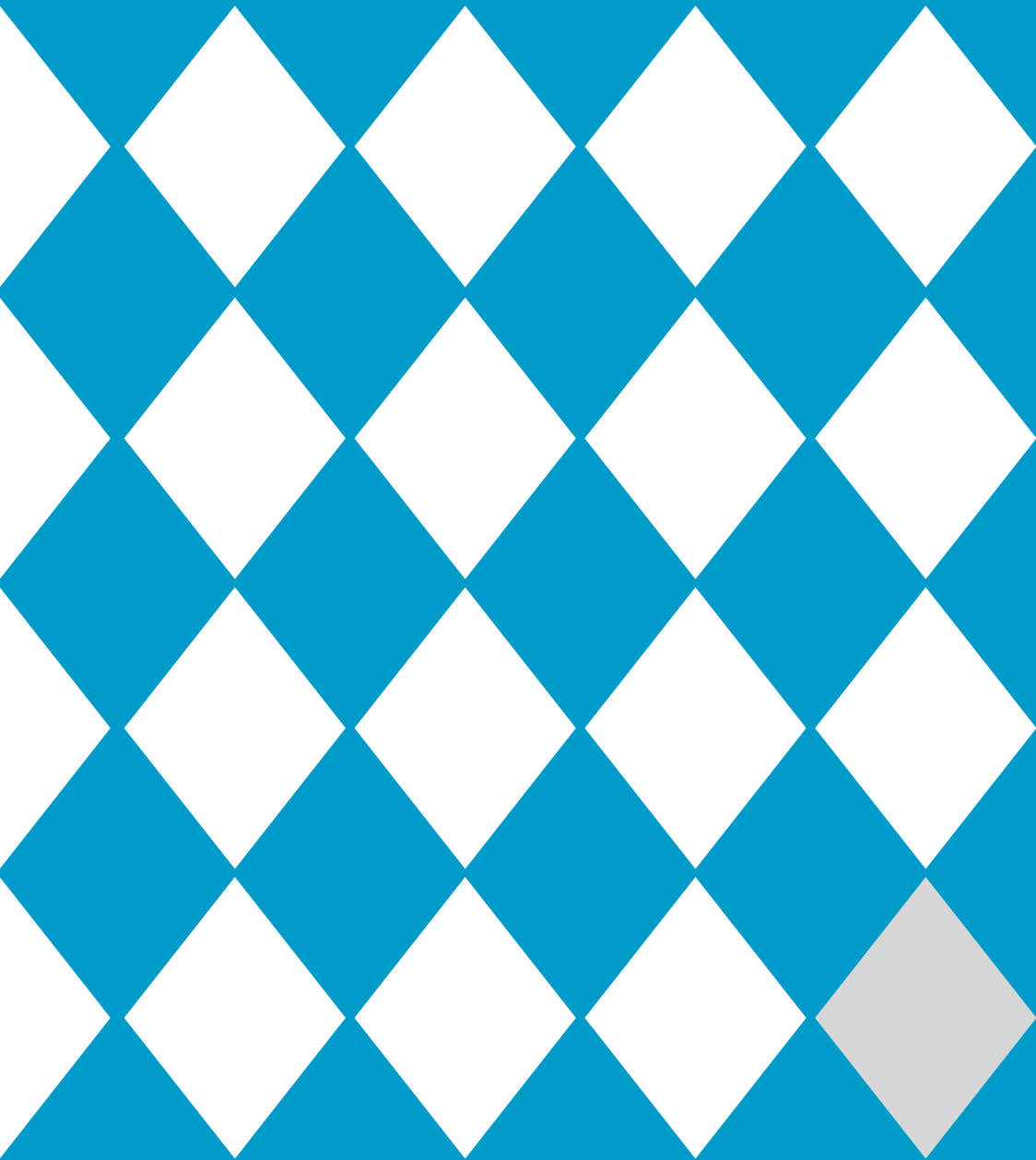
Easy pull tab

The convenient pull tab facilitates quick and easy opening during surgery.

Logical storage

Packages are specially designed to fit perfectly into clinic drawers for space-saving storage and easy identification.





mis[®]

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www.mis-implants.com

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