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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.

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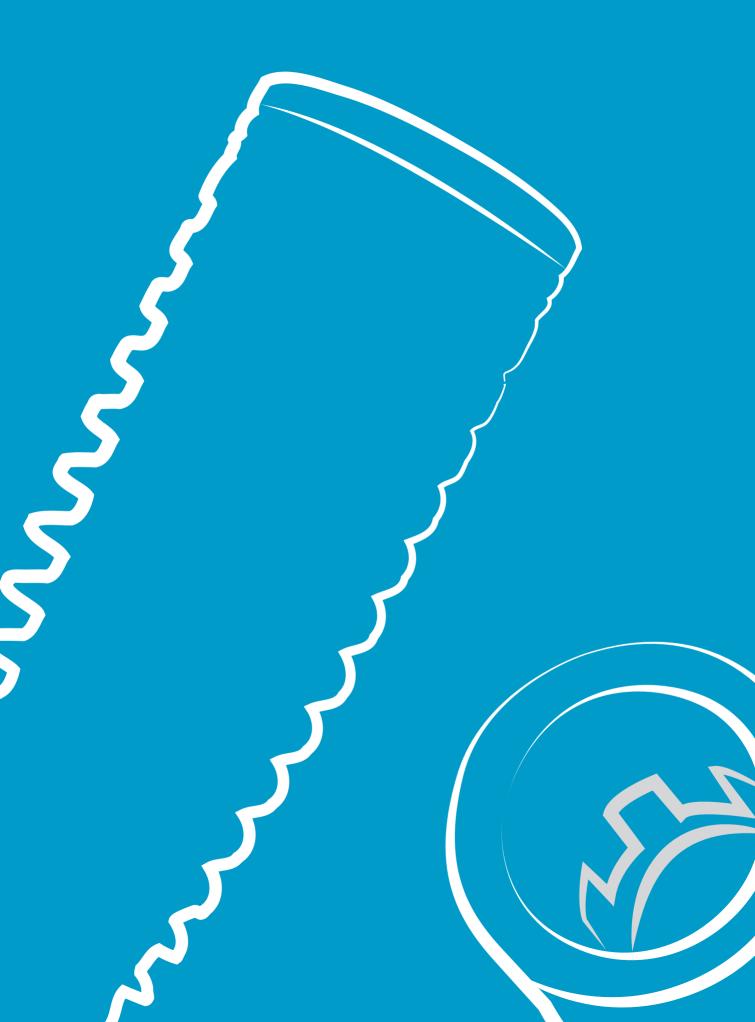
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The C1 implant system is an advanced implant design that offers a unique combination of surgical and restorative benefits, including a differential thread design to ensure superior initial stability in different clinical situations, platform switching 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.

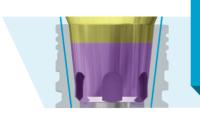
## ©⊙2700











## 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 is 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.

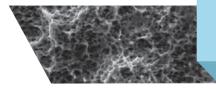
## Micro-rings

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.

Narrow Platform
Screw type implant range

⊂1

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

Surgical Tools

Image: CT-NLI0

Coni. con. long

Image: CT-NLI0

Coni. con. short

Image: CT-NLI0

Coni. con. short

Image: CT-NLI0

<t

Implant cover screw and healing caps Available for heights: 2,3,4,6,8mm

CC1-

CC1-00330



Catalog No.	Dimensions	
C1-10330	Ø3.30mm length 10mm	
C1-11330	Ø3.30mm length 11.5mm	
C1-13330	Ø3.30mm length 13mm	月 🔘
C1-16330	Ø3.30mm length 16mm	
	*7	The implant package includes: a cover screw

Ø3.30mm Narrow Platform

**-**1

Titanium Alloy Ti 6AI 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.

## Ø3.30mm Implant Procedure

Drilling Speed (RPM) Diameter	1200- 1500 Ø1.90	900- 1200 Ø2.40	Ø2.40	200- 400 Ø3 Ø3.60	15-25 Ø3.30
		Ī		Final drill Fiyo 1,253	



- The drilling sequence is illustrated using a 13mm implant.
- Procedure recommended by MIS cannot replace the judgment and professional experience of the surgeon.

10.

⊂1

# Screw type implant range **Standard Platform**

Length	8mm	10mm	11.50mm	13mm	16mm
Туре	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



0 a. short tool, SP

MT-SRA10 Square connection to ratchet adapter



Implant cover screw and healing caps Available for heights: 3,4,5,6mm



Catalog No.	Dimensions	
C1-08375	Ø3.75mm length 8mm	
C1-10375	Ø3.75mm length 10mm	
C1-11375	Ø3.75mm length 11.50mm	F O
C1-13375	Ø3.75mm length 13mm	Ø 3.60 Ø 3.75 ↔
C1-16375	Ø3.75mm length 16mm	
	* 7	The implant package includes: a cover screw

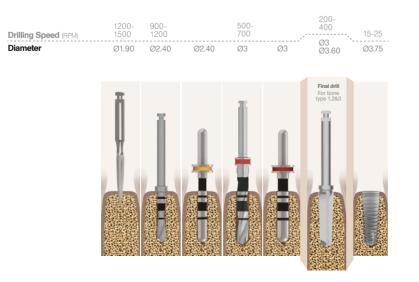
## Ø3.75mm Standard Platform

Titanium Alloy Ti 6AI 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, sterie and said crilling procedure. This final drill should not be used in type 4 bone.

## Ø3.75mm Implant Procedure



- 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.

		⊂1
Catalog No.	Dimensions	
C1-08420	Ø4.20mm length 8mm	
C1-10420	Ø4.20mm length 10mm	
C1-11420	Ø4.20mm length 11.50mm	F Qui
C1-13420	Ø4.20mm length 13mm	Ø4.20
C1-16420	Ø4.20mm length 16mm	03.50 03.60
	* Tì	he implant package includes: a cover screw

## Ø4.20mm Standard Platform

Titanium Alloy Ti 6AI 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, sterie and said criting procedure. This final drill should not be used in type 4 bone.

## Ø4.20mm Implant Procedure





\* 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.

					⊂1	Screw type implant range
						Wide Platform
Length	8mm	10mm	11.50mm	13mm	16mm	
Туре	C1-08500	C1-10500	C1-11500	C1-13500	C1-16500	
Ø5 mm						





		⊂1
Catalog No.	Dimensions	
C1-08500	Ø5mm length 8mm	
C1-10500	Ø5mm length 10mm	
C1-11500	Ø5mm length 11.50mm	f o
C1-13500	Ø5mm length 13mm	
C1-16500	Ø5mm length 16mm	04.10 04.50

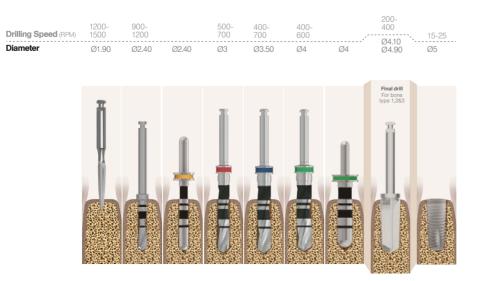
## Ø5mm Wide Platform

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, sterie and said crilling procedure. This final drill should not be used in type 4 bone.

## Ø5mm Implant Procedure





 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.

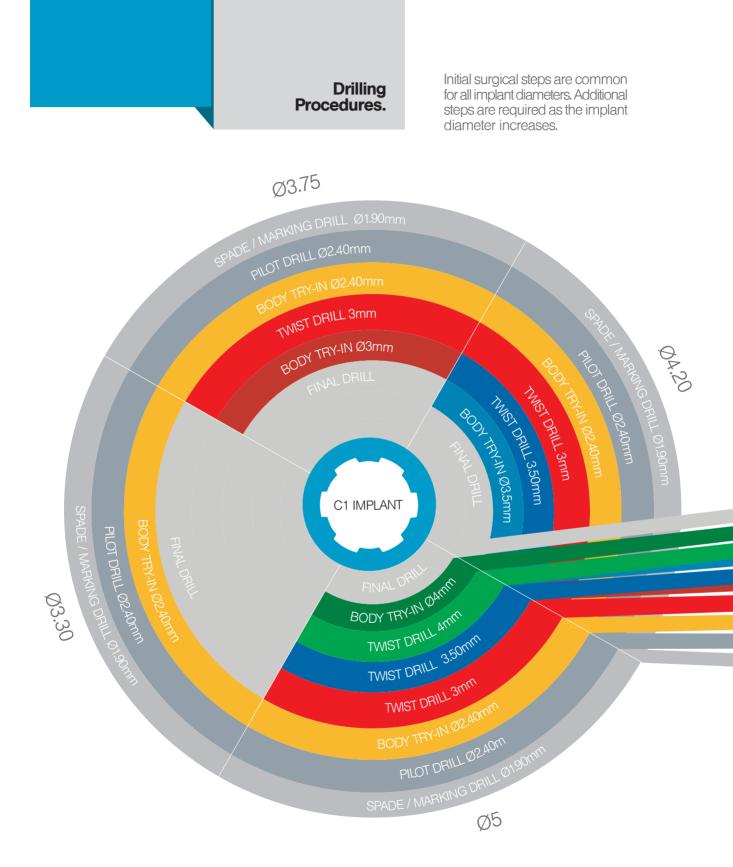


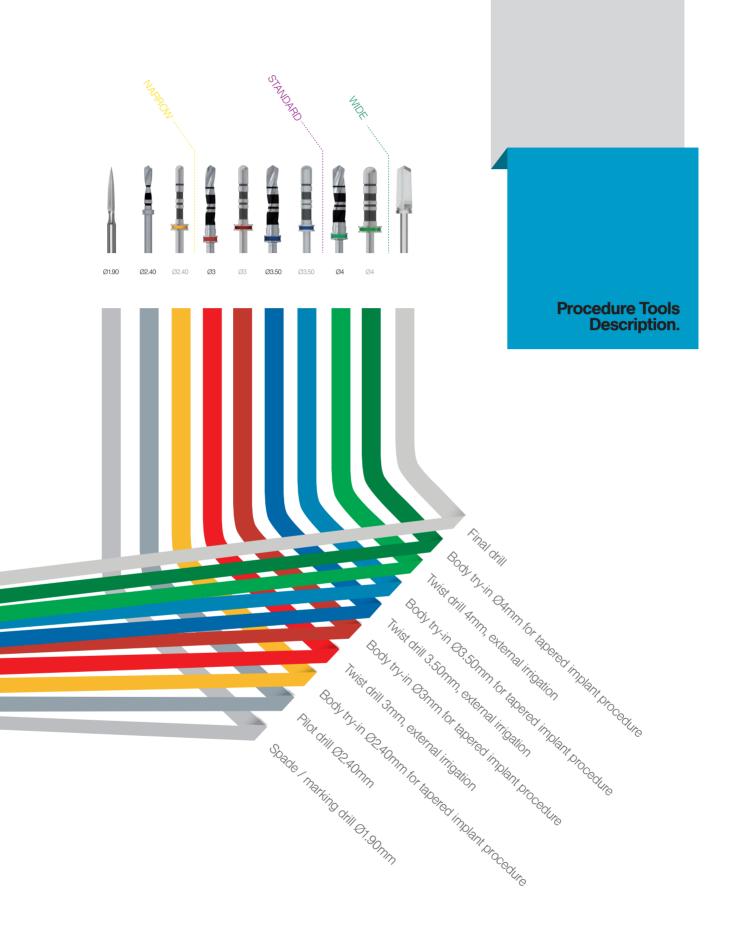
## AVAILABLE IN THREE PLATFORMS:

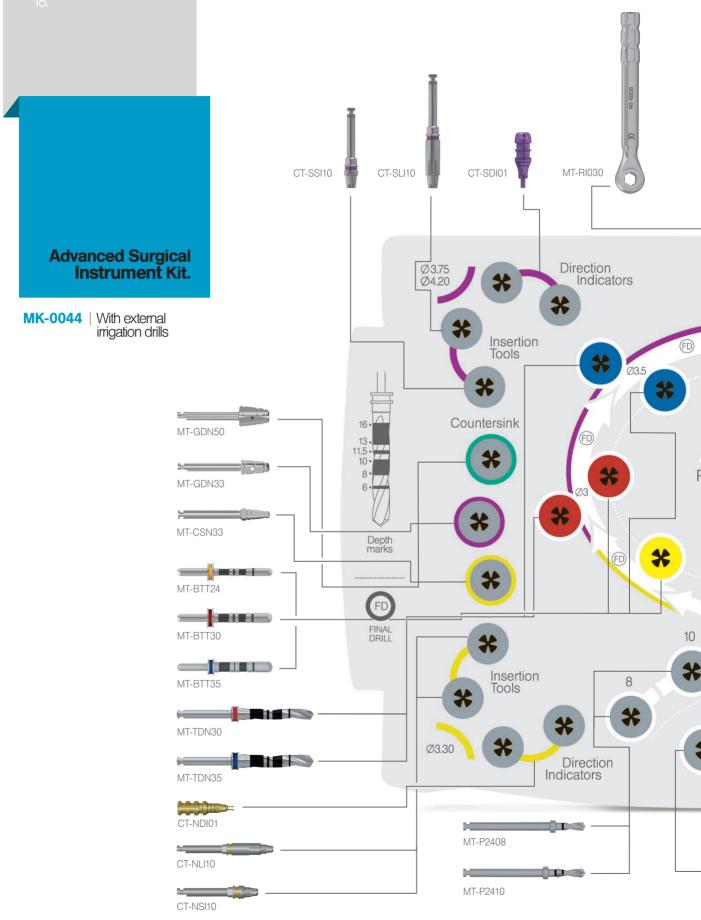
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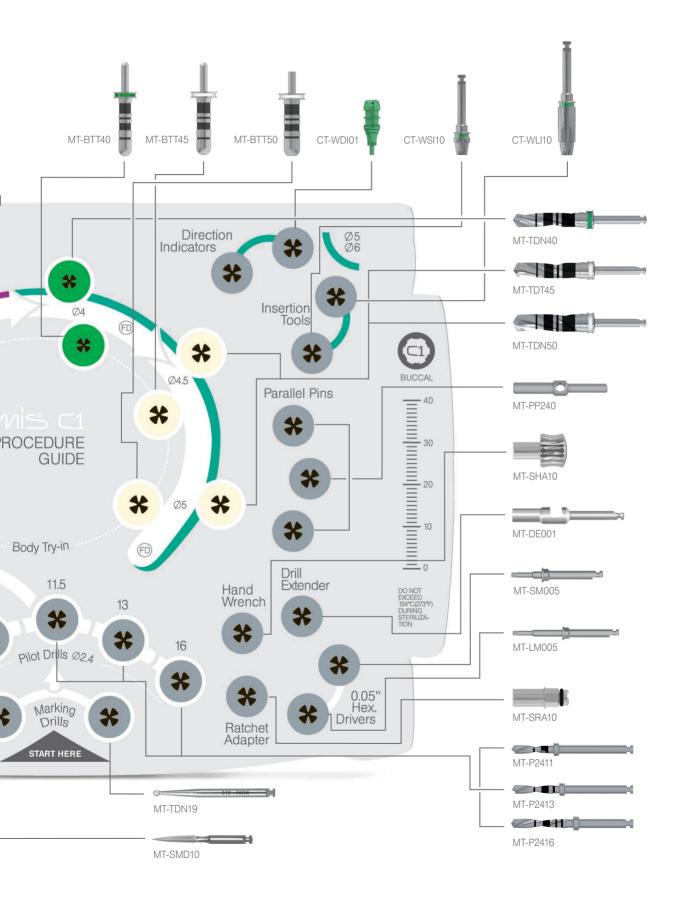
NARROW	CK-NPK62
STANDARD	CK-CPK61 CK-CPK62 CK-CPK63 CK-CPK64

WIDE CK-WPK61 CK-WPK62 CK-WPK63 CK-WPK64







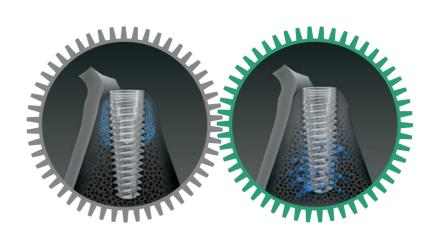


## The Dual Stability Mechanism

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



Thanks to a unique drilling methodology, the implant's geometric design enables a moderate compression of the bone at the top 2/3 of the body. This compression, enabled by a distinctive conical shaped final drill, provides an immediate and prolonged mechanical primary stability. 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.



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.

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## **Drill Stoppers Kit** Standard Platform.

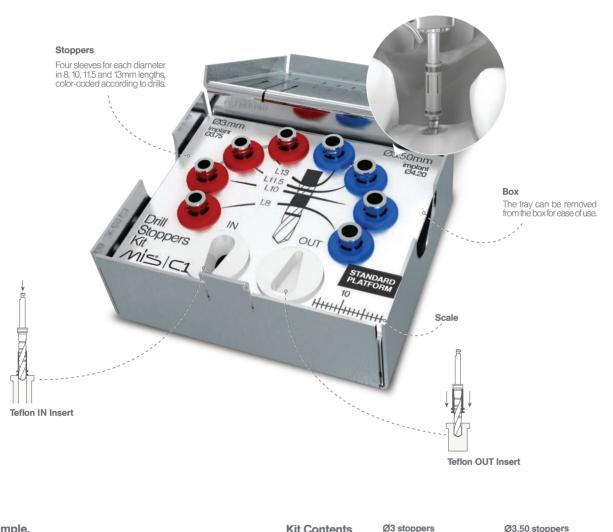
Following the use of MIS length-based pilot drills, the C1 Standard Platform Stoppers Kit ensures drilling to the exact desired depth. The kit includes the most commonly used lengths: 8, 10, 11.5 and 13mm.

Ø3.50 stoppers

(for Ø4.20mm implants)

(for Ø3.75mm implants)

MK-BC101



**Kit Contents** 

## Simple.

Quick, easy assembly

## Easy.

Color-coding for quick identification of the sleeve diameter

## Safe.

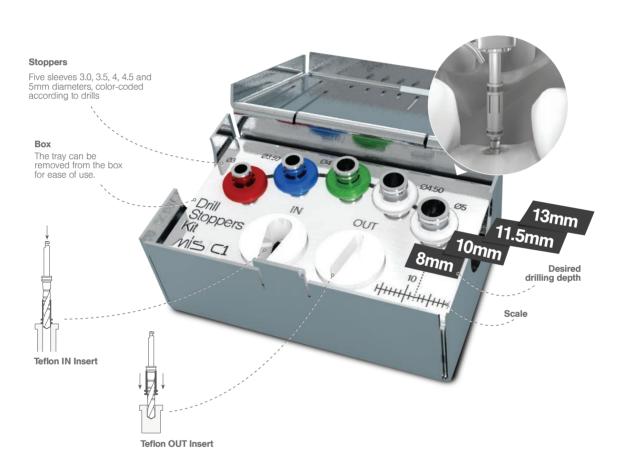
Safe drilling to desired depth

## Fast.

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

Following the use of MIS lengthbased 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.** 



## Simple.

Quick, easy assembly

## Easy.

Color coding for a quick identification of sleeve diameter

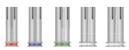
## Safe.

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

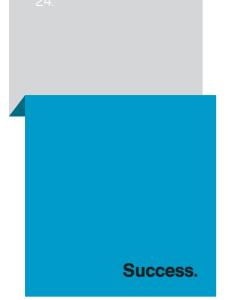


For 10mm implants MK-CDS10

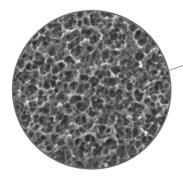


For 13mm implants MK-CDS13





A high success rate is achieved through a combination of advanced geometric design and our wellestablished 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.



Microgram



Machine

Implant

MIS SUITACE

## 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.

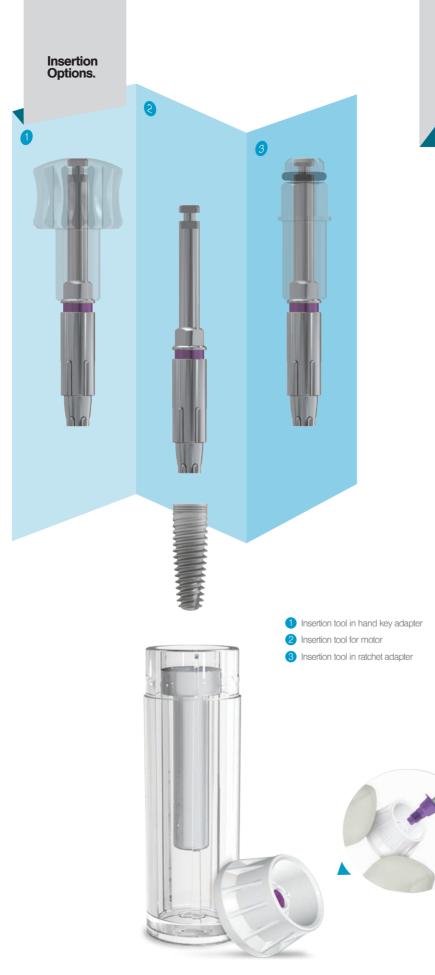
Results: The Confocal Microscope images revealed a significantly higher amount of HAS-FITC coat on the rough disks, as compared with the machined disks. Furthermore, under similar experimental conditions, less HAS-FITC could be removed from the rough disks than from the machined disks.

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

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





## "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.

## 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.



## 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

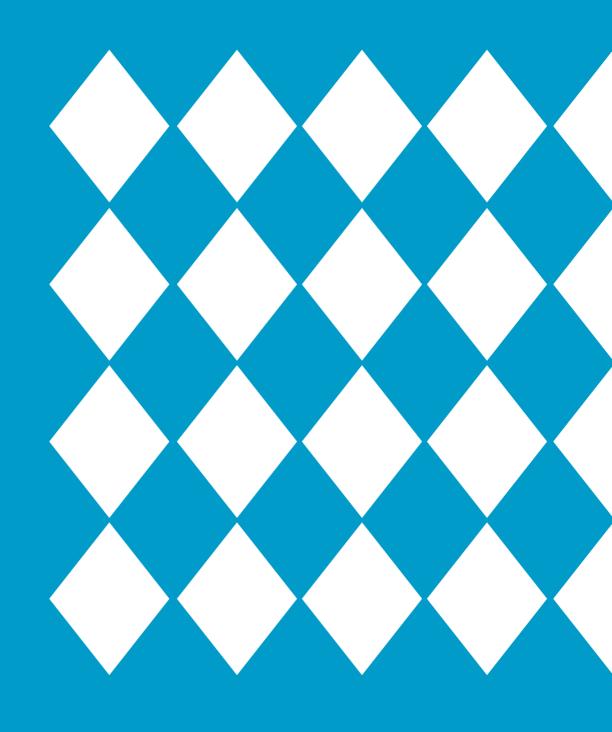
The convenient pull tab facilitates quick and easy opening during surgery.

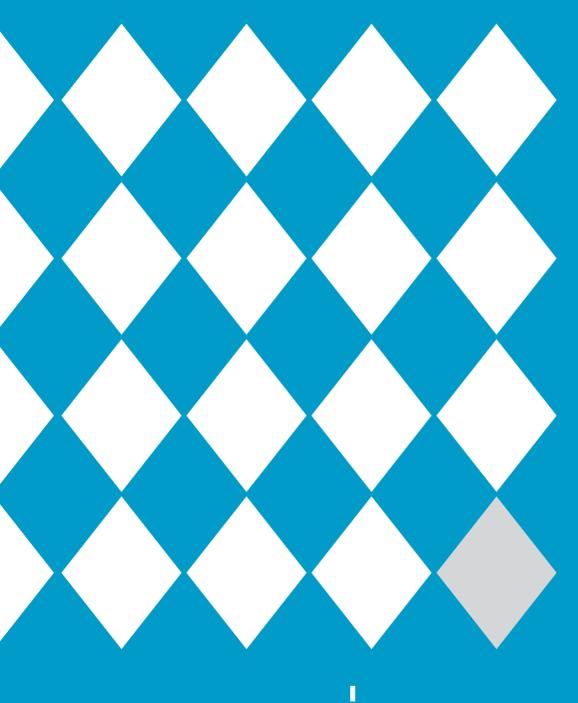
## Logical storage

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









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The MIS Quality System complies with international quality standards: ISO 13485:2003 - Quality Management System for Medical Devices, ISO 9001: 2008 - Quality Management System and CE Directive for Medical Devices 93/42/EEC. MIS products are cleared for marketing in the USA and CE approved.

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