



P.4-5
P.6-7
P.8-9
P.10-11
P.12-14
P.15-16
P.17-19
P.20-21
P.22-23
P.24-25
P.26-27
P.28
P.29

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.





- Introduction
- Advantages
- Surface Quality
- B+ Surface
- Narrow Implants (Ø3.30mm)
- Standard Implants (Ø3.75mm, Ø4.20mm)
- Wide Implants (Ø5mm)
- Conical Connection Surgical Kit
- **Drilling Procedures**
- Dual Stability Mechanism
- Insertion Tools
- Package Contents
- Packaging

The C1 implant system includes 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.

$\mathbb{O} \mathbb{O} \mathbb{O} \mathbb{O} \mathbb{O}$











Prosthetic options

A broad range of MIS conical connection prosthetic components presents uncompromising accuracy; a consistent concave emergence profile for excellent soft tissue results; golden shade to support high esthetic results; color coding for simple and immediate platform identification.

Platform switching

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.

Conical connection



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 for placing the abutment into the proper position.



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.



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.



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.

The surface of MIS implants was found superior in its purity compared to other implant systems by two independent research studies, as published in the POSEIDO Journal and in EDI Journal.





SURFACE ANALYSIS OF STERILE-PACKAGED IMPLANTS

Dr. Dirk Duddeck and Dr. Jörg Neugebauer, PhD

For the third time in a row, the Quality and Research (Q&R) Committee of BDIZ EDI is examining sterilepackaged implants under the scanning electron microscope for the more than 5,500 members of the association. In cooperation with the University Hospital of Cologne, extensive qualitative and quantitative elemental analyses are performed on each of the implants studied. In 2009/2008, the surfaces of 23 implants were analyzed, a number that had grown to 54 different implants from manufacturers in nine countries by 2012/2011. Here, isolated implants showed residue from the manufacturing and/or packaging process, pecularities in the external threading or residual filings inside the implant.

65 dental implants from different leading manufacturers underwent topographical and chemical composition analysis. The protocol included the use of a Scanning Electron Microscope (SEM), which enabled the topical evaluation of each implant surface. The high sensitivity backscattered electron detector generates images in compositional and topographical modes to a magnification of up to X5,000 for this study. The BSE detector also allows researchers to draw conclusions about the chemical nature and allocation of remnants or contaminants on the sample material. Qualitative and quantitative analyses of implant surfaces were done using Energy Dispersive X-ray Spectroscopy (EDX). This element identification software even allows the identification of elements deep within the sample. Testing on MIS implants revealed percentages of Titanium, Oxygen, Aluminum and Vanadium.

Conclusions reached in the study state:

"The C1 implant and the Seven implant (both MIS) stood out positively in the current study. Whereas during the 2012/2011 study, the Seven implant still exhibited blasting material on up to seven per cent of the surface, the current study did not even find isolated spots with residue on the two MIS implant types of grade 23 titanium (Ti 6AI4-V ELI)".



Residue-free surface, MIS C1 implant (x 1000). MI

MIS C1 implant surface with micro-nano-structure (x 2,500).

MIS C1 implant side-view of a thread (x 2,000).

The study is available for download from the MIS Website: Surface Analysis of Sterile-Packaged Implants: EDI Journal, Issue 2015/1: http://www.mis-implants.com/Scientific/Articles.aspx



B+ is a biological feature of MIS implants, that results in effective, long-term osseointegration. A mono-molecular layer of multi phosphonates is permanently bound to the surface of the implant, which is perceived as bone-like by the body.



B+ is a biological feature of MIS implants, that results in effective, long-term osseointegration.







B+ label on inner and external tubes, for simple identification



B+ implants are available in all MIS lengths and diameters for C1 and V3 implant systems

12.					
				C1	Screw type implant range Narrow Platform
Length	10mm	11.50mm	13mm	16mm	
Туре	C1-10330	C1-11330	C1-13330	C1-16330	
Ø3.30 mm					



Catalog No.	Dimensions	
C1-10330	Ø3.30mm Length 10mm	
C1-11330	Ø3.30mm Length 11.5mm	
C1-13330	Ø 3.30mm Length 13mm	F O
C1-16330	Ø3.30mm Length 16mm	

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

Ø3.30mm

 $\subset 1$

Narrow Platform

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 or 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





- 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**



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	

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

Ø3.75mm Standard Platform

 $\subset 1$

Stanuaru Flationni

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 or 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.

Ø3.75mm Implant Procedure



• Do not use the final drill for bone type 4

A

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

Catalog No.	Dimensions	
C1-08420	Ø4.20mm Length 8mm	
C1-10420	Ø4.20mm Length 10mm	
C1-11420	Ø 4.20mm Length 11.50mm	F Q
C1-13420	Ø4.20mm Length 13mm	Ø4 Ø4 Ø420
C1-16420	Ø4.20mm Length 16mm	

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

Ø4.20mm Standard Platform

-1

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 or 16mm implants is supplied with every implant, allowing a short, sterie and sale drilling procedure. This final drill should not be used in type 4 bone.

Ø4.20mm Implant Procedure

Drilling Speed (RPM) Diameter Diameter	1200- 1500 Ø1.90	900- 1200 Ø2.40	Ø2.40	500- 700 Ø3	400- 700 Ø3.50	Ø3.50	200- 400 03.50 Ø4 Ø4.20
	Ï	024113		020	015		Final drill For bones type 1,2433



• 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.





Implant cover screw and healing caps







Catalog No.	Dimensions	
C1-08500	Ø5mm Length 8mm	
C1-10500	Ø5mm Length 10mm	
C1-11500	Ø 5mm Length 11.50mm	Ē O
C1-13500	Ø5mm Length 13mm	Ø4.90 Ø5
C1-16500	Ø5mm Length 16mm	04.10

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

Ø5mm Wide Platform

 $\subset 1$

viue rialionni

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 or 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.

Ø5mm 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.

Conical Connection Surgical Kit.

The innovative Conical Connection Surgical Kit, is designed for simple and safe implant placement procedures. The kit presents a novel ergonomic design that follows the surgical drilling sequence. In addition, the kit includes a set of length-based pilot drills and color-coded visual cues of both implant diameter and restorative platforms and is suitable for both C1 and V3 implants.







MARKING DRILLS 1

MT-SMD10 Spade marking drill

- 2 ______MT-PDM24 MT-PDM24 Position drill mill, Ø2.4mm
- 3 MT-PD440 Position drill, Ø4mm

- PILOT DRILLS
- 4 @2.4 L8 CT-P2408 Pilot drill with built-in stopper for 8mm length implants, Ø2.4/2mm
- 5 Ø2.4 L10 CT-P2410 Pilot drill with built-in stopper for 10mm length implants, Ø2.4/2mm
- 6 @2.4 L11.5 CT-P2411 Pilot drill with built-in stopper for 11.5mm length implants, Ø2.4/2mm
- 7 @2.4 L13 CT-P2413 Pilot drill with built-in stopper for 13mm length implants, Ø2.4/2mm
- 8 CT-P2416 Pilot drill for 16mm length implants, Ø2.4/2mm

- BODY TRY-INS
- CT-BTC24 Body try-in, Ø2.4mm
- CT-BTC30
 - Body try-in, Ø3mm
- CT-BTC35 Body try-in, Ø3.5mm
- CT-BTC40 Body try-in, Ø4mm

- STEP DRILLS 03.0
- CT-TDC30 Step drill, external irrigation, Ø3/2.4mm
- 14 CT-TDC35 Step drill, external irrigation, Ø3.5/3mm
- @4.0 CT-TDC40 Step drill, external irrigation, Ø4/3.5mm
- 16 MT-CSN33 Countersink for narrow platform implant system
- 17 MT-GDN33 Countersink for standard platform implant system
 - Contra Contra
 - MT-GDN50 Countersink for wide platform implant system







Procedure recommended by MIS cannot replace the judgment and professional experience of the surgeon.



The Dual Stability Mechanism

The C1 offers a Dual Stability Mechanism (DSM) that combines the benefits of high primary stability with an accelerated osseointegration process, thus minimizing stability loss during the first weeks after surgery. This differential drilling method enables moderate compression of the bone at the top 2/3 of the implant body in order to gain mechanical stability, while preventing such compression at the apical 1/3.

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.



1

The 'compartments' created between the threads at the apical 1/3 are filled with blood and bone particles, enabling rapid bone growth.



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 acceler-

BIOLOGICAL STABILIN

ated osseointegration.



Insertion Tools.

Standard platform tools shown

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



MIS offers a line of specially engineered insertion tools suitable for use either manually or with the unique insertion tool system, which allows secure implant placement without the use of a mount, effectively reducing the number of tools required in the armamentarium.

Insertion options:

Manual insertion tool

Other insertion tool

Ratchet insertion tool



2

Please note: In order to assure their efficient operation, tools should be fully inserted into the implants. A complete insertion of the tool optimizes the transfer of force during implant placement and enables simple release of the tool from the hex. whenever necessary.

Tool will not hold implant unless it is completely inserted into the connection.

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 present 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.



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.







MIS Implants Technologies Ltd. www.mis-implants.com

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 Medical Device Directive 93/42/EEC. MIS products are CE marked. Please note, not all products are registered or available in every country/region.

© MIS Implants Technologies Ltd. All rights reserved.