





 INTRODUCTION
 BENEFITS
 IMPLANT RANGE, NARROW PLATFORM
 IMPLANT RANGE, STANDARD PLATFORM
 IMPLANT RANGE, WIDE PLATFORM
 SEVEN SURGICAL KIT
 INSERTION TOOLS
 SURFACE QUALITY
 PROSTHETICS
 PACKAGING

MIS Warranty:

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

Warning: MIS products should be used by licensed dentists only.

MIS believes in continuously developing innovative products, designed to improve and enhance implant dentistry and make it effective, safe and simple. In the spirit of these beliefs, and with the dedicated work of the research and development team and state-of-the art facilities, MIS is able to offer a range of innovative

The SEVEN implant has been enhanced with several key features that make this outstanding, top-selling internal hex implant even better.

The biological stability and predictable esthetics of the SEVEN, combined with the extensive research and development process which has led to these new improvements, have given the SEVEN a potential advantage in soft tissue preservation and growth as well as an array of restorative benefits.

The combination of its unique features were designed to provide the dentist with higher predictability, better esthetic results and bone preservation.



High initial stability

The SEVEN's root-shaped geometry and unique threads are designed to enable excellent primary stability, offering the ultimate choice for a wide range of clinical cases. This allows for a simpler and faster implant placement.

Bone preservation

The SEVEN implant now incorporates the **platform-switching** design concept. Implants with a platform-switched configuration have been shown to exhibit less bone loss when compared to non-platform-switched implants, which may lead to soft tissue preservation and growth.

The straight neck, combined with the compatible final drill, may lead to crestal bone preservation.

Micro-rings on the implant neck improve BIC (Bone-to-Implant-Contact) at the crestal zone, and are designed to reduce pressure on the cortical bone to minimize resorption at the implant neck.

Esthetics

The SEVEN now includes a variety of concave emergence profile abutments which, as scientific research has proven, when combined with platform switching, may increase soft tissue volume.

Gold shaded prosthetics enable less reflection of the component through the gingiva.

Safety

Each SEVEN implant is supplied with a single-use final drill corresponding to the correct diameter and length, allowing for a short and safe drilling procedure. The dome-shaped apex prevents over-insertion for safer implant placement.

Clinical success

The surface roughness and micro-morphology of all MIS implants, is a result of sand-blasting and acid-etching. This MIS established surface technology has provided millions of patients with excellent osseointegration results and long-lasting clinical success, and is backed by years of research and supporting data.





Length	6mm	8mm	10mm	11.50mm	13mm	16mm
Ø3.30 mm			MF7-10330	MF7-11330	MF7-13330	MF7-16330

Surgical Tools



Implant Cover Screw and Healing Caps



Catalog No.	Dimensions		73.30mm
MF7-10330	Ø3.30mm length 10mm		Narrow Platform
MF7-11330	Ø3.30mm length 11.50mm		
MF7-13330	Ø3.30mm length 13mm	種	Internal hex. implant Titanium Alloy Ti 6Al 4V ELI Sand-Blasted and Acid-Etched
MF7-16330	Ø3.30mm length 16mm		Final Drill Each implant is supplied with a single-use final drill corresponding to the correct diameter and length, allowing a short and safe drilling procedure.

Ø3.30mm Implant Procedure





Do not use the final drill for bone types 3&4.

The drilling sequence is illustrated using a 13mm implant.

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

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PLATFORM

Length	6mm	8mm	10mm	11.50mm	13mm	16mm
Ø 3.75 mm		MF7-08375	MF7-10375	MF7-11375	MF7-13375	MF7-16375
Ø 4.20 mm	MF7-06420	MF7-08420	MF7-10420	MF7-11420	MF7-13420	MF7-16420



SEL/EN



Implant Cover Screw and Healing Caps



1				
	Catalog No.	Dimensions	CAC CAC	
	MF7-08375	Ø3.75mm length 8mm	Star	adard Platform
	MF7-10375	Ø3.75mm length 10mm		
	MF7-11375	Ø3.75mm length 11.50mm		Internal hex. implant Titanium Alloy Ti 6Al 4V ELI Sand-Blasted and Acid-Etched
	MF7-13375	Ø3.75mm length 13mm		
	MF7-16375	Ø3.75mm length 16mm		Final Drill Each implant is supplied with a single-use final drill corresponding to the correct diameter and length, allowing a short and safe drilling procedure.

Ø3.75mm Implant Procedure





Do not use the final drill for bone types 3&4. The drilling sequence is illustrated using a 13mm implant.

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

Catalog No.	Dimensions	(XA	20mm
MF7-06420	Ø4.20mm length 6mm	Stan	Idard Platform
MF7-08420	Ø4.20mm length 8mm		
MF7-10420	Ø4.20mm length 10mm	6 9 -	
MF7-11420	Ø4.20mm length 11.50mm	F D	Internal hex. implant Titanium Alloy Ti 6Al 4V ELI Sand-Blasted and Acid-Etched
MF7-13420	Ø4.20mm length 13mm		Final Drill
MF7-16420	Ø4.20mm length 16mm		Each implant is supplied with a single-use final drill corresponding to the correct diameter and length, allowing a short and safe drilling procedure.

Ø4.20mm Implant Procedure





Do not use the final drill for bone types 3&4.

The drilling sequence is illustrated using a 13mm implant.

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



Length	6mm	8mm	10mm	11.50mm	13mm	16mm
Ø5 mm	MF7-06500	MF7-08500	MF7-10500	MF7-11500	MF7-13500	MF7-16500
Ø6 mm	MF7-06600	MF7-08600	MF7-10600	MF7-11600	MF7-13600	



Catalog No.	Dimensions		15mm
MF7-06500	Ø5mm length 6mm	W	ide Platform
MF7-08500	Ø5mm length 8mm		
MF7-10500	Ø5mm length 10mm		
MF7-11500	Ø5mm length 11.50mm	F O	Internal hex. implant Titanium Alloy Ti 6Al 4V ELI Sand-Blasted and Acid-Etched
MF7-13500	Ø5mm length 13mm		Final Drill
MF7-16500	Ø5mm length 16mm		Each implant is supplied with a single-use final drill corresponding to the correct diameter and length, allowing a short and safe drilling procedure.

Ø5mm Implant Procedure



Do not use the final drill for bone types 3&4.

The drilling sequence is illustrated using a 13mm implant.

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

MF7-06600	Ø6mm length 6mm	Ö6mm /ide Platform
MF7-08600	Ø6mm length 8mm	
MF7-10600	Ø6mm length 10mm	Internal hex. implant Titanium Alloy Ti 6Al 4V EL Sand-Blasted and Acid-Etched
MF7-11600	Ø6mm length 11.50mm	
MF7-13600	Ø6mm length 13mm	Final Drill Each implant is supplied with a single-use final drill corresponding to the correct diameter and length, allowing a short and safedrilling procedure.

Ø6mm Implant Procedure



Do not use the final drill for bone types 3&4.





1 MT-SMD10 Spade marking drill 2 E--MT-TDN19 Marking drill, external irrigation Ø1.90mm 3 1 CT-P2406 Step pilot drill with built-in stopper for 6mm length implants, Ø2.40/2mm -4 CT-P2408 Step pilot drill with built-in stopper for 8mm length implants, Ø2.40/2mm 5 CT-P2410 Step pilot drill with built-in stopper for 10mm length implants, Ø2.40/2mm

6 -CT-P2411 Step pilot drill with built-in stopper for 11.5mm length implants, Ø2.40/2mm 7 -CT-P2413 Step pilot drill with built-in stopper for 13mm length implants, Ø2.40/2mm CT-P2416 Step pilot drill for 16mm length implants, Ø2.40/2mm 9 (= MT-TDT28 Twist drill, external irrigation Ø2.80mm 10 6

> MT-TDT32 Twist drill, external irrigation Ø3.20mm

1) MT-TDT40 Twist drill, external irrigation Ø4mm

MK-T048 >> With external irrigation drills

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MT-TDT45 Twist drill, external irrigation Ø4.50mm



MT-TDT50 Twist drill, external irrigation Ø5mm

14 970

CT-BTC24 Body try-in, Ø2.40/2mm

MT-BTT28 Body try-in, Ø2.80mm

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Miss Seven

INSERTION TOOLS

The SEVEN key system is designed to facilitate quick, reliable implant procedures. Keys are supplied within the advanced SEVEN surgical kit. The keys are suitable for use with SEVEN narrow connectors.

MIS offers a line of specially engineered insertion tools suitable for use either manually or with a ratchet, effectively reducing the number of tools required in the armamentarium.









All MIS implants undergo the same surface treatments; sand-blasting and acid-etching. The research study was done on the SEVEN implant, however the results are valid for all MIS implant surfaces. Identification Card and Codification of the Chemical and Morphological Characteristics of 62 Dental Implant Surfaces. Part 3: Sand-Blasted/ Acid-Etched (SLA Type) and Related Surfaces (Group 2A, main subtractive process).

Background and Objectives

Dental implants are commonly used in dental therapeutics, but dental practitioners only have limited information about the characteristics of the implant materials they take the responsibility to place in their patients. The objective of this work is to describe the chemical and morphological characteristics of 62 implant surfaces available on the market and establish their respective Identification (ID) Card, following the Implant Surface Identification Standard (ISIS). In this third part, surfaces produced through the main subtractive process (sand-blasting/acid-etching, SLA-type and related) were investigated.

Materials and Methods

Eighteen different implant surfaces were characterized: Straumann SLA (ITI Straumann, Basel, Switzerland), Ankylos (Dentsply Friadent, Mannheim, Germany), Xive S (Dentsply Friadent, Mannheim, Germany), Frialit (Dentsply Friadent, Mannheim, Germany), Promote (Camlog, Basel, Switzerland), Dentium Superline (Dentium Co., Seoul, Korea), Osstem SA (Osstem implant Co., Busan, Korea), Genesio (GC Corporation, Tokyo, Japan), Aadva (GC Corporation, Tokyo, Japan), Adva (GC Corporation, Tokyo, Japan), MIS Seven (MIS Implants Technologies, Bar Lev, Israel), ActivFluor (Blue Sky Bio, Grayslake, IL, USA), Tekka SA2 (Tekka, Brignais, France), Twinkon Ref (Tekka, Brignais, France), Bredent OCS blueSKY (Bredent Medical, Senden, Germany), Magitech MS2010 (Magitech M2I, Levallois-Perret, France), EVL Plus (SERF, Decines, France), Alpha Bio (Alpha Bio Tec Ltd, Petach Tikva, Israel), Neoporos (Neodent, Curitiba, Brazil). Three samples of each implant were analyzed.

Superficial chemical composition was analyzed using XPS/ESCA (X-Ray Photoelectron Spectroscopy/Electron Spectroscopy for Chemical Analysis) and the 100nm in-depth profile was established using Auger Electron Spectroscopy (AES). The microtopography was quantified using optical profilometry (OP). The general morphology and the nanotopography were evaluated using a Field Emission-Scanning Electron Microscope (FE-SEM). Finally, the characterization code of each surface was established using the ISIS, and the main characteristics of each surface were summarized in a reader-friendly ID card.

Results

From a chemical standpoint, in the 18 different surfaces of this group, 11 were based on a commercially pure titanium (grade 2 or 4) and 7 on a titanium-aluminium alloy (grade 5 or grade 23 ELI titanium). 4 surfaces presented some chemical impregnation of the titanium core, and 5 surfaces were covered with residual alumina blasting particles. 15 surfaces presented different degrees of inorganic pollutions, and 2 presented a severe organic pollution overcoat. Only 3 surfaces presented no pollution (and also no chemical modification at all): GC Aadva, Genesio, MIS SEVEN[®]. From a morphological standpoint, all surfaces were microrough, with different microtopographical aspects and values. All surfaces were nanosmooth, and therefore presented no significant and repetitive nanostructures. 14 surfaces were homogeneous and 4 heterogeneous. None of them was fractal.

Discussion and Conclusion

The ISIS systematic approach allowed to gather the main characteristics of these commercially available products in a clear and accurate ID card. The SLA-type surfaces have specific morphological characteristics (microrough, nanosmooth, with rare and in general accidental chemical modification) and are the most frequent surfaces used in the industry. However they present different designs, and pollutions are often detected (with blasting/etching residues particularly). Users should be aware of these specificities if they decide to use these products.

Identification card of the MIS SEVEN surface, following the Implant Surface Identification Standard (ISIS) codification



Fig. 1

Identification Card of the MIS SEVEN[®] surface: MIS Seven (MIS Implants Technologies, Bar Lev, Israel; Figure 1) was a sandblasted/acid-etched surface on a grade 23 ELI (Extra Low Interstitials) titanium core. No pollution or chemical modification was detected. the surface was moderately microrough, nanosmooth, and homogeneous all over the implant.

¹LoB5 unit, Research Center for Biomineralization Disorders, Chonnam National University, South Korea. ²Department of Stomatology, School of Dental Medicine, University of Geneva, Switzerland. ³Department of Oral Surgery, Faculty of Medicine, University Federico II of Naples, Italy. ⁴Private Practice, Turin, Italy. ⁵Department of Physics, Seoul National University, Seoul, South Korea. ³Private Practice, Paris, France. ⁷Private Practice, Ra²anana, Israel. ³Department of Periodontology and Implant Dentistry, College of Dentistry, New York University, New York USA. ⁹Private Practice, Reims, France. ¹⁰Department of Oral and Maxillofacial Surgery, School of Dentistry, Chonam National University, Seoul Sixth People's Hospital, Shanghai Jiao Tong University, China. ¹² Department of Periodontology and Oral Implantology, University, Seou Paulo, Brazil. ¹³ Department of Periodontics and Oral Medicine, School of Dentistry, University of Michigan, Ann Arbor, USA. *Corresponding author: David M. Dohan Ehrenfest.





With a comprehensive concept for enhanced esthetics and better bone preservation in mind, and in order to support the advanced features of the SEVEN, an additional line of **concave**, **gold-shaded and color-coded** abutments is available, including additional gingival heights.



Miss Seven

PACKAGING

Each SEVEN implant comes with a cover screw inside the implant package. Following our "Make it Simple" philosophy, MIS is proud to be the first to include a sterile single-use final drill with every SEVEN implant, to ensure a safe and precise surgical procedure.

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





Implant diameter & platform indication

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

Prosthetic platform indication

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





Implant identification The sticker on top of the box, specifies implant diameter, length and platform size.

Easy pull tab

The pull tab is easily identified and facilitates convenient opening during surgery.



The MIS Quality System complies with international quality standards: ISO 13485: 2016-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.



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PROVEN SUCCESS MEETS ENHANCED STABILITY. **MAKE IT SIMPLE**

The biological stability and predictable esthetics of the SEVEN, combined with the extensive research and development process have given the SEVEN a potential advantage in soft tissue preservation and growth as well as an array of restorative benefits. Learn more about the SEVEN implant system and MIS at: www.mis-implants.com



