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MIS Warranty:

MIS exercises great care and effort in maintaining a superior quality of products. All MIS' products are guaranteed to be clear 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.

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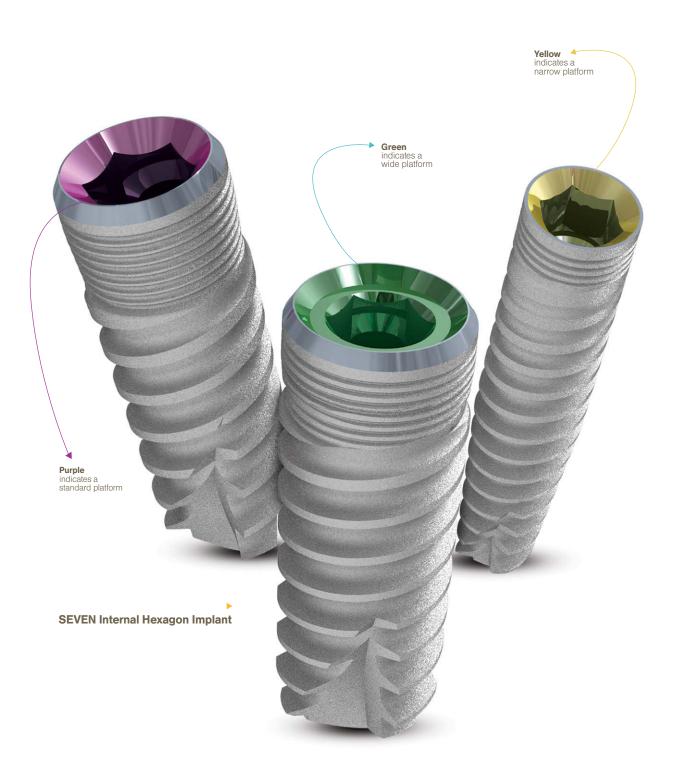
Always dedicated to the development of innovative products and technologies, MIS' scientists and engineers conduct continuous laboratory and field studies in collaboration with prestigious universities and dental research institutes. SEVEN is the innovative result of an extensive research and development process, offering a unique combination of surgical and restorative benefits.







#### Advantages.





#### Internal hex.

MIS SEVEN implants feature an internal hex. connection, assuring proper implant abutment seating, anti-rotational engagement, resistance to lateral forces, excellent esthetic results and more.



#### Micro rings

Micro rings on the implant's neck improve BIC (Bone To Implant Contact) at the crestal zone.



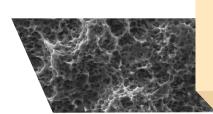
#### **Dual thread**

A dual thread design increases BIC (Bone to Implant Contact), reinforcing osseointegration for long lasting clinical success. The overall insertion rate of SEVEN is 2.4mm per revolution.



#### **Conical shape**

Conical, root-shaped geometry and a unique thread design ensure superior primary stability, offering the ultimate choice for a wide range of clinical cases and loading protocols.



#### Surface

The surface roughness and micro-morphology is a result of sand blasting and acid etching. MIS' established surface technology has provided millions of patients and clinicians with excellent osseointegration results and long lasting clinical success.



#### Three spiral channels

Three spiral channels at the apical end of the implant support its self tapping properties. The channels also collect and amass bone chips in the course of insertion, supporting efficient osseointegration and long-term stability.



#### Domed apex

The dome shaped apex prevents over-insertion for safer implant placement procedures.

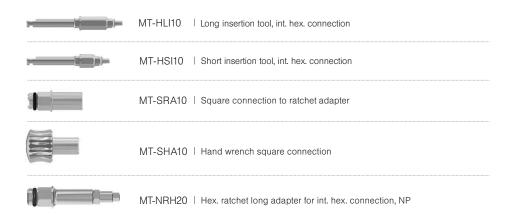
#### SEI/EN

#### **NARROW**

Screw type implants range Narrow Platform

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

#### Surgical tools



# Implant cover screws & healing caps

Available for heights: 2,3,4,5,6mm







#### SFI/FN

#### NARROW

#### **Ø3.30mm** Narrow Platform

Catalog No.	Dimensions	
MF7-10330	Ø3.30mm length 10mm	
MF7-11330	Ø3.30mm length 11.50mm	
MF7-13330	Ø3.30mm length 13mm	***************************************
MF7-16330	Ø3.30mm length 16mm	- 2.00 · V
		03320 0330 0240

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

#### Final Drill

Each implant is supplied with a single use final drill corresponding to its diameter and length, allowing a short and safe drilling procedure.

#### Ø3.30mm Implant Procedure

Drilling Speed (RPM)	1200- 1500	900- 1200	,	200- 400	15-25
Diameter	Ø1.90	Ø2.40	Ø2.40	Ø2.20 Ø3.20	Ø3.30





Do not use the final drill for bone type 3&4

The drilling sequence is demonstrated by a 13mm implant.

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

#### SEI/EN<sup>®</sup>

#### STANDARD

# Screw type implants range Standard Platform

Length	6mm	8mm	10mm	11.50mm	13mm	16mm
Ø3.75 mm		MF7-08375	MF7-10375	MF7-11375	MF7-13375	MF7-16375
Ø4.20 mm	MF7-06420	MF7-08420	MF7-10420	MF7-11420	MF7-13420	MF7-16420

#### Surgical tools



#### MT-HLI10

Long insertion tool, int. hex. Connection



#### MT-HSI10

Short insertion tool, int. hex. Connection



#### MT-SRA10

Square connection to ratchet adapter



#### MT SHA10

Hand wrench square connection

# Implant cover screw & healing caps

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



#### SEI/EN®

#### STANDARD

#### **Ø3.75mm** Standard Platform

Catalog No.	Dimensions	
MF7-08375	Ø3.75mm length 8mm	
MF7-10375	Ø3.75mm length 10mm	
MF7-11375	Ø3.75mm length 11.50mm	
MF7-13375	Ø3.75mm length 13mm	1. 2.45·1
MF7-16375	Ø3.75mm length 16mm	Ø3.60 Ø3.75 L

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

#### Final Drill

Each implant is supplied with a single use final drill corresponding to its diameter and length, allowing a short and safe drilling procedure.

#### Ø3.75mm Implant Procedure

Drilling Speed (RPM)	1200- 1500	900- 1200		500- 700	,	200- 400	200- 500	. 15-25
Diameter	Ø1.90	Ø2.40	Ø2.40	Ø2.80	Ø2.80	Ø2.8 Ø3.60	Ø3.75	Ø3.75





Do not use the final drill for bone type 3&4

The drilling sequence is demonstrated by a 13mm implant.

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

#### SEI/EN®

#### STANDARD

#### Ø4 20mm

<b>W4.2</b> (	vmm
Standard	Platform

Catalog No.	Dimensions	
MF7-06420	Ø 4.20mm length 6mm	
MF7-08420	Ø 4.20mm length 8mm	
MF7-10420	Ø 4.20mm length 10mm	
MF7-11420	Ø 4.20mm length 11.50mm	-2.45 · ·
MF7-13420	Ø 4.20mm length 13mm	Ø4.10 Ø4.20 Ø3.75 ¥0.4mm
MF7-16420	Ø4.20mm length 16mm	03.30

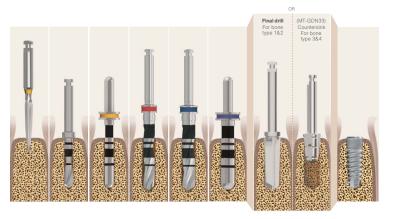
Titanium Alloy Ti 6Al 4V ELI Sand Blasted and Acid-Etched

#### **Final Drill**

Each implant is supplied with a single use final drill corresponding to its diameter and length, allowing a short and safe drilling procedure.

#### **Ø4.20mm** Implant Procedure

Diameter	Ø1.90	Ø2.40	Ø2.40	Ø2.80	Ø3.20	Ø3.20	Ø3.30 Ø4.10	Ø3.30 Ø4.20	Ø4.20
Drilling Speed (RPM)	1200- 1500	900- 1200		500- 700	400- 700		400	500	. 15-25





Do not use the final drill for bone type 3&4

The drilling sequence is demonstrated by a 13mm implant.

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

#### SEVEN<sup>®</sup>

WIDE

Screw type implants range Wide Platform

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

#### Surgical tools



Long insertion tool, int. hex. Connection



Short insertion tool, int. hex. Connection



Square connection to ratchet adapter



Hand wrench square connection

#### Implant cover screw & healing caps

Available for heights: 3,4,5mm



#### SEL/EN'

#### WIDE

### **Ø5mm**Wide Platform

Catalog No.	Dimensions	
MF7-06500	Ø5mm length 6mm	
MF7-08500	Ø5mm length 8mm	
MF7-10500	Ø5mm length 10mm	
MF7-11500	Ø5mm length 11.50mm	1245
MF7-13500	Ø5mm length 13mm	Ø4.90 Ø5 Ø4.50 ¥0.4mm
MF7-16500	Ø5mm length 16mm	Ø 4.10 Ø 4.50

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

#### **Final Drill**

Each implant is supplied with a single use final drill corresponding to its diameter and length, allowing a short and safe drilling procedure.

#### **Ø5mm** Implant Procedure

Drilling Speed (RPM)	1200- 1500	900- 1200		500- 700	400- 700	400- 600		400 Ø4.10	500 Ø5	15-25
Diameter	Ø1.90	Ø2.40	Ø2.40	Ø2.80	Ø3.20	Ø4	Ø4	Ø4.90		Ø5





Do not use the final drill for bone type 3&4

The drilling sequence is demonstrated by a 13mm implant.

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

#### SEI/EN°

#### WIDE

#### **Ø6mm** Wide Platform

Catalog No.	Dimensions	_
MF7-06600	Ø6mm length 6mm	
MF7-08600	Ø6mm length 8mm	
MF7-10600	Ø6mm length 10mm	
MF7-11600	Ø6mm length 11.50mm	2.45
MF7-13600	Ø6mm length 13mm	Ø5.90 Ø6 Ø4.50 V.0.4mm

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

#### **Final Drill**

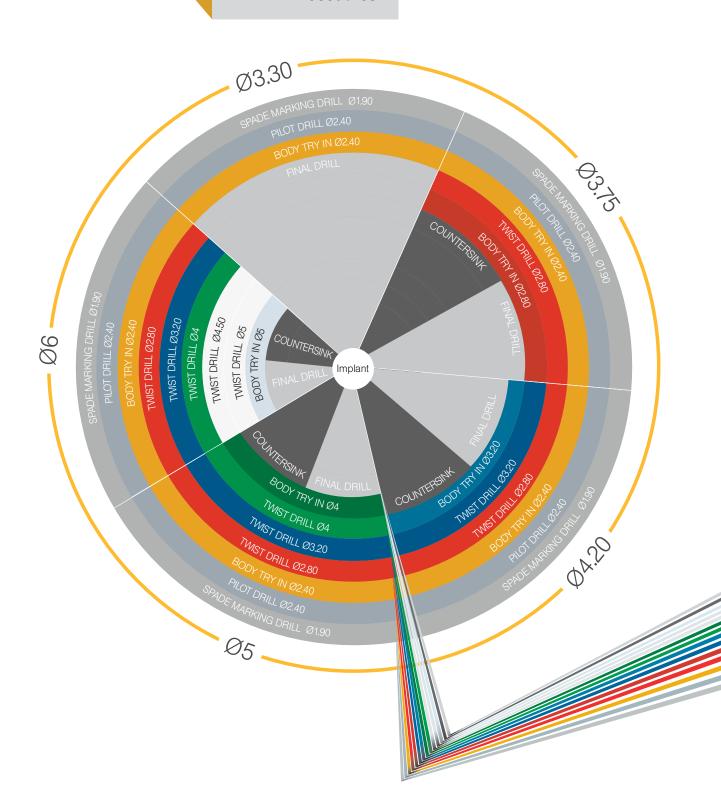
Each implant is supplied with a single use final drill corresponding to its diameter and length, allowing a short and safe drilling procedure.

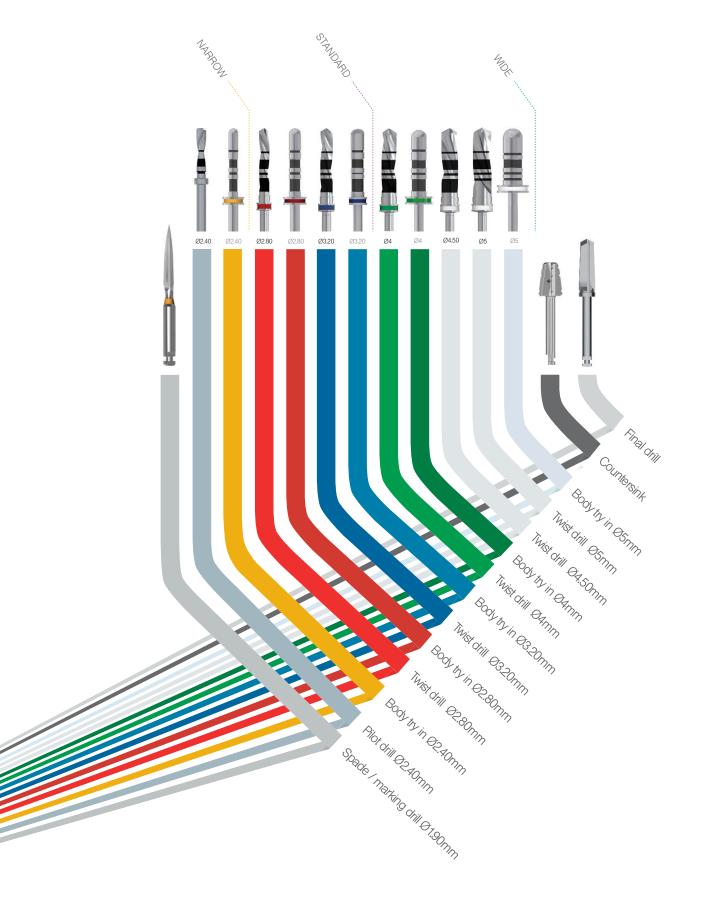
#### **Ø6mm** Implant Procedure

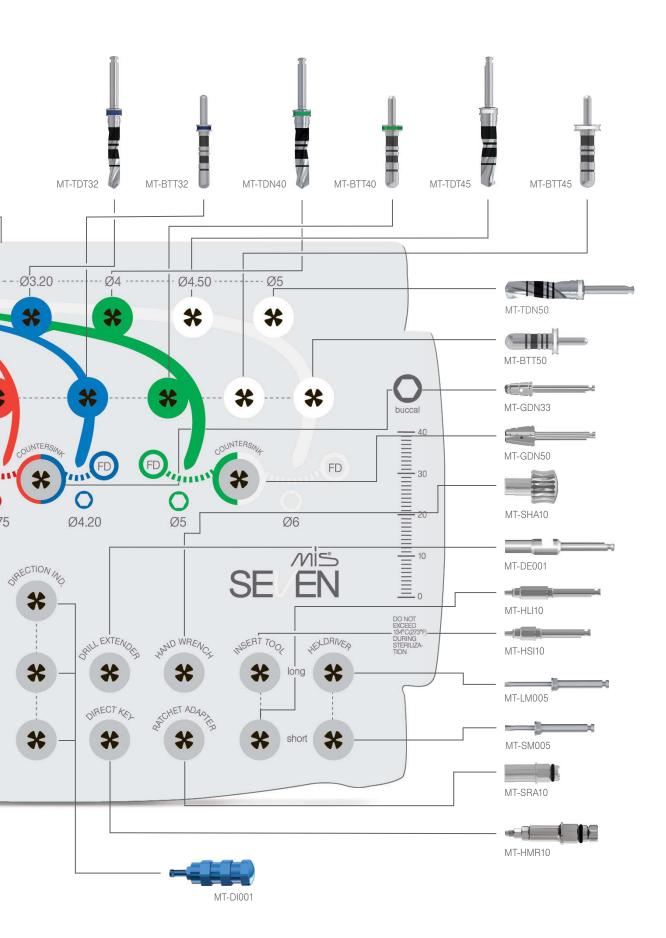
Drilling Speed (RPM)  Diameter	Ø1.90	Ø2.40	Ø2.40	02 80	700 Ø3,20	600 Ø4	500 Ø4.50	500 Ø5	Ø5	Ø5.10 Ø5.90	Ø6	75-25 Ø6
Drilling Speed (DDM)	1200- 1500	900- 1200		500- 700	400-	400-	300-	300-		400	500	- 15.05



# Drilling Procedures.

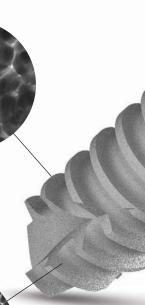






#### Success.

SEVEN implants' high success rate is guaranteed by a combination of advanced geometric design and a cutting-edge surface technology.



#### Micro Structure - Surface Morphology

The surface roughness and microgeometry is achieved by blasting particles and acid-etching. As a result, a larger surface area increases bone-to-implant contact, for long lasting osseointegration. The micro mechanical fixation increases implant stability.

# Albumin Fibronectin Fibrinogen Microgram MIS Surface

# 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

#### **Delivery keys.**

Available within MIS' advanced surgical kit, the SEVEN key system is designed to facilitate quick and reliable implant procedures.

The new keys are suitable for use with SEVEN NARROW connectors.









#### Package Content.

Each SEVEN implant comes with a large range of sterilized components for any clinical scenario.

Following the "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 safe and precise surgical procedure.



#### Packaging.

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

# Prosthetic components are marked by specific colors, representing their platforms. Wide Standard Marrow Marrow Indication dication and length.

Prosthetic platform indication

#### Implant diameter & platform indication

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







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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.