

mectron

➔ **PIEZOSURGERY® INSERTS**



(주) 엠디세이프

**MD safe**

→ 서울시 금천구 가산디지털1로 2 우림라이온스밸리2차 305호

☎ 02-334-2815

🏠 [www.mdsafe.co.kr](http://www.mdsafe.co.kr)

🛒 [www.mdsafemall.co.kr](http://www.mdsafemall.co.kr)

→ **CLINICAL VIDEOS**  
[piezosurgery.mectron.com](http://piezosurgery.mectron.com)



mectron



# → INSERT QUALITY



## → PRECISION

모든 팁은 5차원 CNC 장비에서 최대 0.1  $\mu\text{m}$  의 정확도로 밀링 공정이 진행됩니다.



## → DIAMOND COATING

종류에 따라 입도가 다른 다이아몬드 코팅 표면처리로 성능 향상



## → TITANIUM NITRIDE COATING

포면 경도 향상, 표면 부식 방지, 팁의 수명 향상

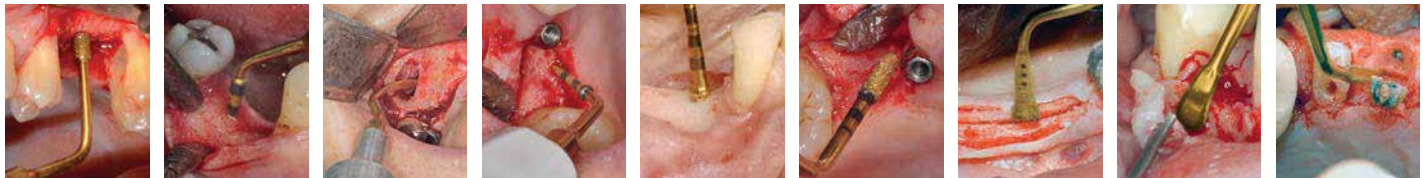
## → MATERIAL

모든 초음파 팁은 의료용 등급의 고품질 스테인리스 스틸로 제작되었습니다.



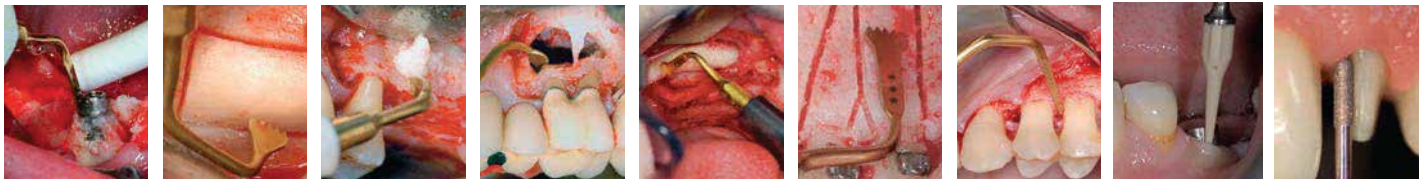
# → INDICATIONS

SINUS LIFT TECHNIQUE CRESTAL APPROACH		SINUS LIFT TECHNIQUE LATERAL APPROACH		IMPLANT SITE PREPARATION		MINI DENTAL IMPLANT SITE PREPARATION	RIDGE EXPANSION	PERIOSTEUM PREPARATION	EXTRACTIONS
→ PIEZO-LIFT	→ SINUS PHYSIOLIFT	→ STANDARD	→ STANDARD	→ OPTIONAL	→ STANDARD	→ STANDARD	→ STANDARD	→ STANDARD	→ STANDARD
PL1	IM1 SP	SLC	IM1S	IM1 AL	IM1S	OT7	PR1	EX1	
PL2	IM2 SP	SLO-H	IM2A	IM2A-15	MDI 1,9	OT4	PR2	EX2	
PL3	P2-3 SP	SLS	IM3A	IM2,8A	MDI 2,2	OP5		EX3	
	OT9	SLE1	IM4A	IM3A-15	MDI 2,5	→ OPTIONAL		PS2	
	CS1	SLE2	IM2P	IM3,4A		OT2			
	CS2	OP3	IM3P	IM2P-15		OT7A			
	PIN IM1	OT1	IM4P	IM2,8P		OT7S-4			
	PIN 2-2.4	EL1	OT4	IM3P-15		OT7S-3			
	PROBE SP	→ OPTIONAL	P2-3	IM3,4P		OT7-20			
		OT1A	P3-4			OT12			
		OT5				OT12S			
		OT5A				BONE EXPANDERS			
		OT5B							
		EL2							
		EL3							



EXPLANTATION	BONE BLOCK GRAFTING	BONE CHIP GRAFTING/ BONE MODELING	ENDODONTICS	OSTEOTOMY CLOSE TO NERVES	CORTICOTOMY TECHNIQUE	PERIODONTAL SURGERY	CROWN PREPARATION	
→ STANDARD	→ STANDARD	→ STANDARD	→ STANDARD	→ STANDARD	→ STANDARD	→ STANDARD	→ OPTIONAL	→ STANDARD
EXP3-R	OT7	OP3	OT7	OT1	OT7S-4	OP5A	PS1	DB2
EXP3-L	OP5	OP1	PS2	OT5	OT7S-3	OP8	PS6	CROWN PREP TIP
EXP4-R	OT8L	→ OPTIONAL	EN1		→ OPTIONAL	OP9	PP10	TA12D90* ∅ 1.2mm
EXP4-L	OT8R	OP2	EN2		OT7	OT13	PP11	TA12D60*
	→ OPTIONAL	OP3A	EN3		OT7A	OT14	PP12	TA14D120* ∅ 1.4mm
	OT6		EN4			OP3	OP2	TA14D90*
	OT7A		→ OPTIONAL			PS2	OP3A	TA14D60*
	OT7S-4		EN5R			PP1	OP4	TA16D120* ∅ 1.6mm
	OT7S-3		EN5L				OP6	TA16D90*
	OT7-20		EN6R				OP6A	TA16D60*
	OT12		EN6L				ICP + IC1	
	OT12S		OP3					

\* D120, D90, D60 = diamond coating



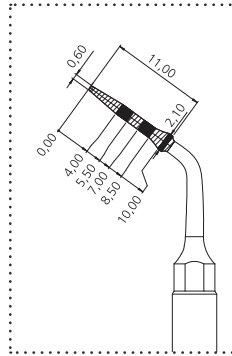
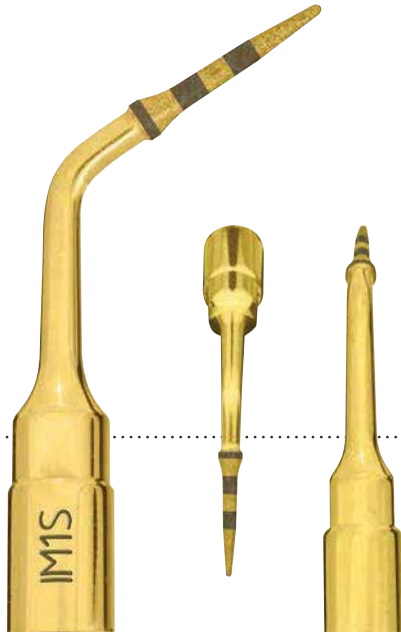
# → CONTENTS

6	Insert IM1S	29	Insert OT2	51	Insert OP3/ OP3A	73	Insert EN6R
7	PINS IM1/ IM1S/ 2–2.4/ 2–3	30	Insert OT3	52	Insert OP4	74	Insert EN6L
8	Insert IM1 AL	31	Insert T4	53	Insert OP5/ OP5A	75	Insert EX1
9	PINS IM1 AL/ 2–2.4 AL/ 2–3 AL	32	Insert OT5/ OT5A/ OT5B	54	Insert OP6/ OP6A	76	Insert EX2/ EX3
10	Insert IM2A/ IM2A–15	33	Insert OT6	55	Insert OP7	77	Insert EXP3–R/ EXP3–L
11	Insert IM2P/ IM2P–15	34	Insert OT7/ OT7A	56	Insert OP8	78	Insert EXP4–R/ EXP4–L
12	Insert IM2.8A	35	Insert OT7S–4	57	Insert OP9	79	Insert PS1
13	Insert IM2.8P	36	Insert OT7S–3	58	Insert SLC	80	Insert PS2
14	Insert IM3A/ IM3A–15	37	Insert OT7–20	59	Insert EL1	81	Insert PS6
15	Insert IM3P/ IM3P–15	38	Insert OT8R/ OT8L	60	Insert EL2	82	Insert PP1
16	Insert IM3.4A	39	Insert OT9	61	Insert EL3	83	Insert PP10
17	Insert IM3.4P	40	Insert OT11	62	Insert SLS	84	Insert PP11/ PP12
18	Insert IM4A	41	Insert OT12	63	Insert SLE1	85	Tipholder ICP, tip IC1
19	Insert IM4P	42	Insert OT12S	64	Insert SLE2	86	Crown prep tips
20	Insert P2–3	43	Insert OT13	65	Insert PR1	87–88	Appropriate insert settings
21	Insert P3–4	44	Insert OT14	66	Insert PR2	89	Implant site preparation sequence
22–23	Bone Expanders	45	Insert SLO–H	67	Insert EN1	90–91	Reference Numbers
24	Insert MDI 1.9	46	Insert PL1	68	Insert EN2	92	Spare Parts
25	Insert MDI 2.2	47	Insert PL2	69	Insert EN3		
26	Insert MDI 2.5	48	Insert PL3	70	Insert EN4		
27	Insert OT1	49	Insert OP1	71	Insert EN5R		
28	Insert OT1A	50	Insert OP2	72	Insert EN5L		



# IM1S

## Initial implant site preparation insert



diamond grain size 30 μm

### 기능

Bone perforation

### 임상 적용

Initial pilot osteotomy

(REF NO. 03510019)





# → PINS IM1 / IM1S / 2-2.4 / 2-3

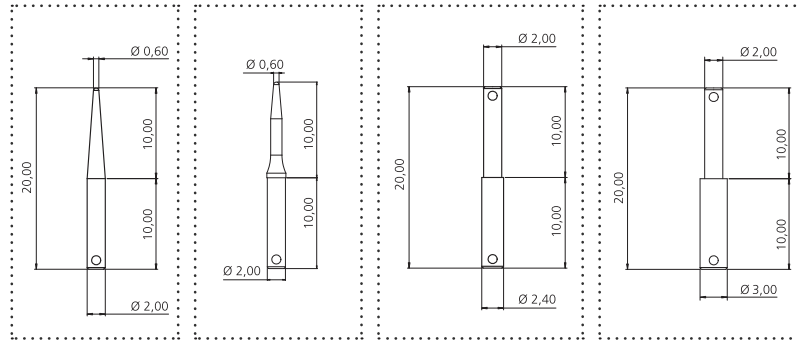
## Alignment pins

### → TIP 설명

Alignment pins, dedicated to  
IM1S, IM2 (Ø2), IM3 (Ø3),  
OT4 (Ø2.4), IM1 SP

### → 임상 적용

To check preparation axis alignment



→ PIN IM1

→ PIN IM1S

→ PIN 2-2.4

→ PIN 2-3

(REF NO.  
03740002)

(REF NO.  
03740007)

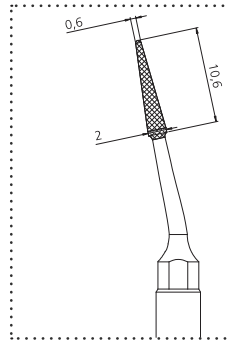
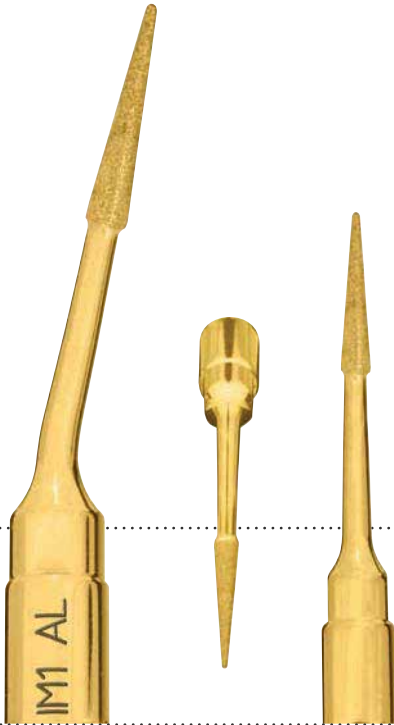
(REF NO.  
03740003)

(REF NO.  
03740001)



# IM1 AL

Insert for initial osteotomy in extraction sites



diamond grain size 30  $\mu$ m

## 기능

Bone perforation

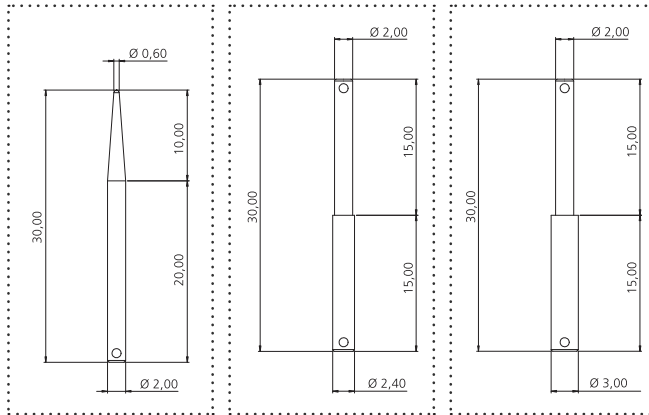
## 임상 적용

Initial pilot osteotomy in extraction sites

(REF NO. 03510010)



# → ALVEOLAR PINS IM1 AL / 2-2.4 AL / 2-3 AL



## → TIP 설명

30 mm alignment pins, for extraction sites dedicated to IM1AL, IM2A (Ø2), OT4 (Ø2.4), IM3A (Ø3)

## → 임상 적용

To check preparation axis alignment

→ PIN IM1 AL

(REF NO.  
03740004)

→ PIN 2-2.4 AL

(REF NO.  
03740005)

→ PIN 2-3 AL

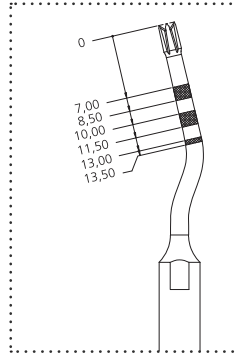
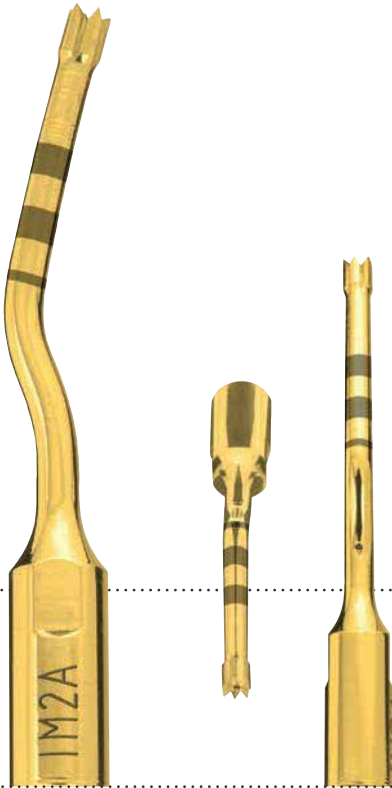
(REF NO.  
03740006)



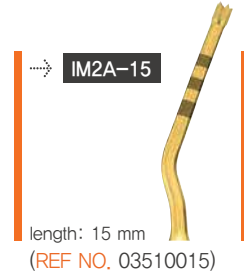


# IM2A / IM2A-15

2 mm Ø implant site preparation insert



(REF NO. 03510001)



→ 기능

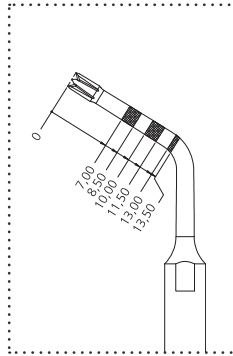
Bone perforation

→ 임상 적용

Pilot osteotomy in anterior region



# → IM2P / IM2P-15 2 mm Ø implant site preparation insert



## → 기능

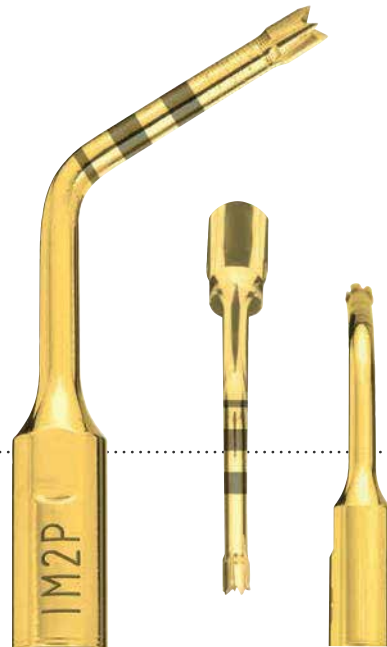
Bone perforation

## → 임상 적용

Pilot osteotomy in posterior region



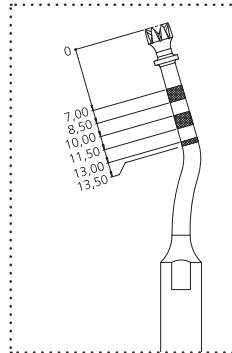
(REF NO. 03510002)





# IM2.8A

## 2.8 mm Ø implant site preparation insert



→ 기능

Bone perforation

→ 임상 적용

To enlarge or to finalize the implant site preparation : insert with double irrigation to avoid overheating

(REF NO. 03510025)



# IM2.8P

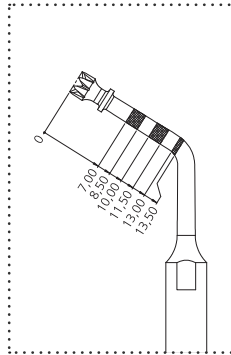
2.8 mm Ø implant site preparation insert

## 기능

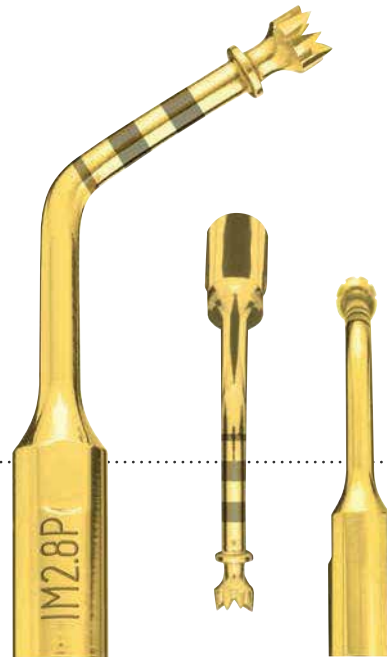
Bone perforation

## 임상 적용

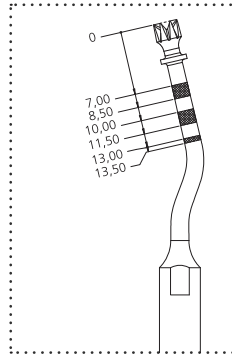
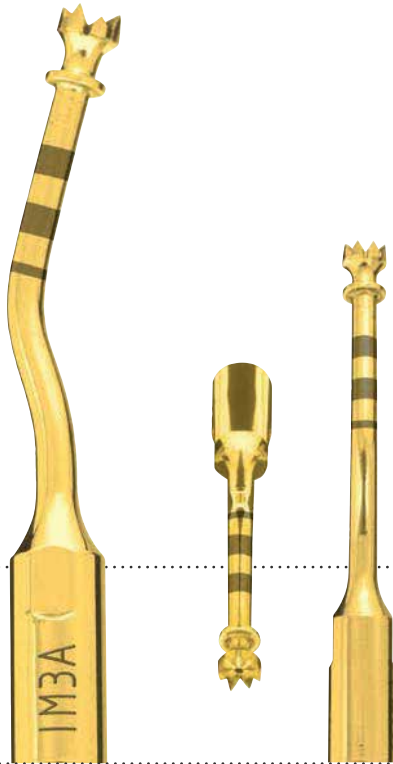
To enlarge or to finalize the implant site preparation : insert with double irrigation to avoid overheating



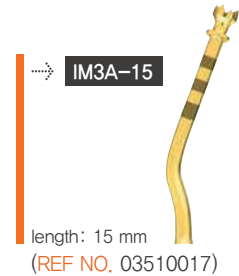
(REF NO. 03510026)



# → IM3A / IM3A-15 3 mm Ø implant site preparation insert



(REF NO. 03510003)



## → 기능

Bone perforation

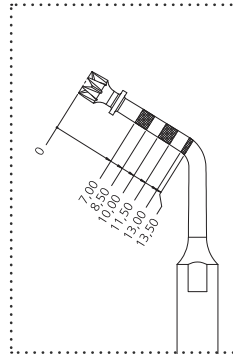
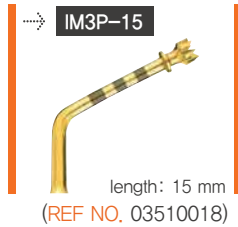
## → 임상 적용

To enlarge or to finalize the implant site preparation : insert with double irrigation to avoid overheating





# → IM3P / IM3P-15 3 mm Ø implant site preparation insert

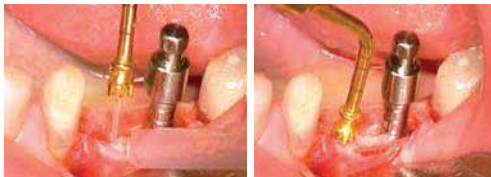
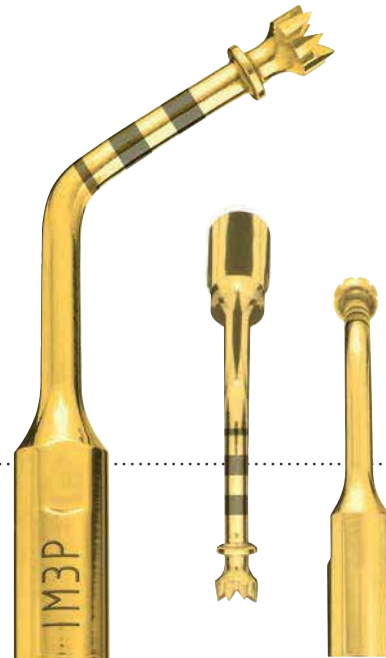


## → 기능

Bone perforation

## → 임상 적용

To enlarge or to finalize the implant site preparation : insert with double irrigation to avoid overheating

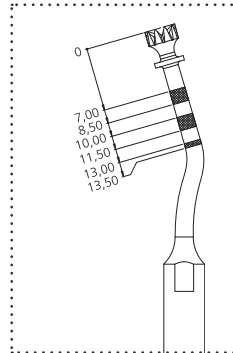


(REF NO. 03510004)



# IM3.4A

3.4 mm Ø implant site preparation insert



→ 기능

Bone perforation

→ 임상 적용

To enlarge or to finalize the implant site preparation : insert with double irrigation to avoid overheating

(REF NO. 03510027)



# IM3.4P

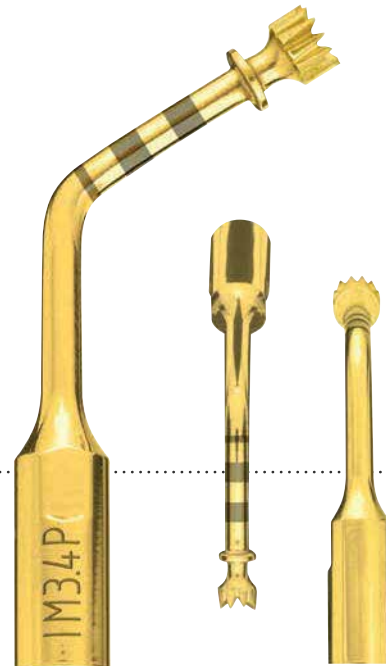
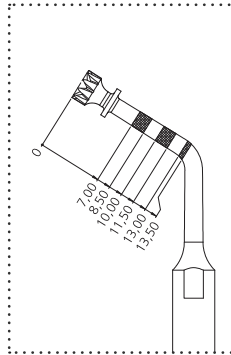
## 3.4 mm Ø implant site preparation insert

### → 기능

Bone perforation

### → 임상 적용

To enlarge or to finalize the implant site preparation : insert with double irrigation to avoid overheating

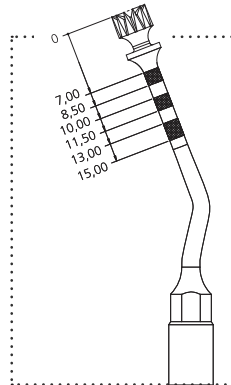


(REF NO. 03510028)



# IM4A

4 mm  $\emptyset$  implant site preparation insert



→ 기능

Bone perforation

→ 임상 적용

To finalize the implant site preparation : insert with double irrigation to avoid overheating

(REF NO. 03510005)



# IM4P

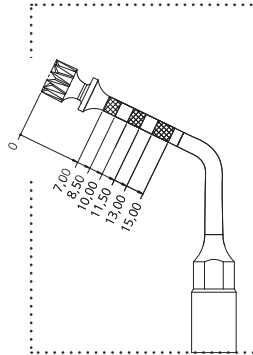
## 4 mm Ø implant site preparation insert

### → 기능

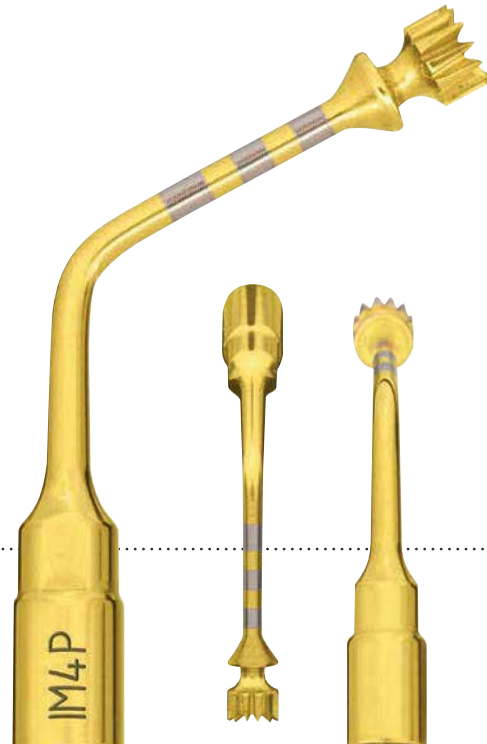
Bone perforation

### → 임상 적용

To finalize the implant site preparation : insert with double irrigation to avoid overheating



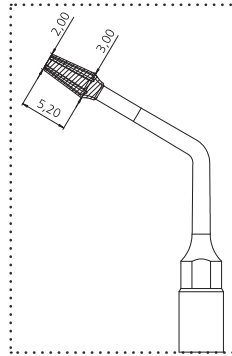
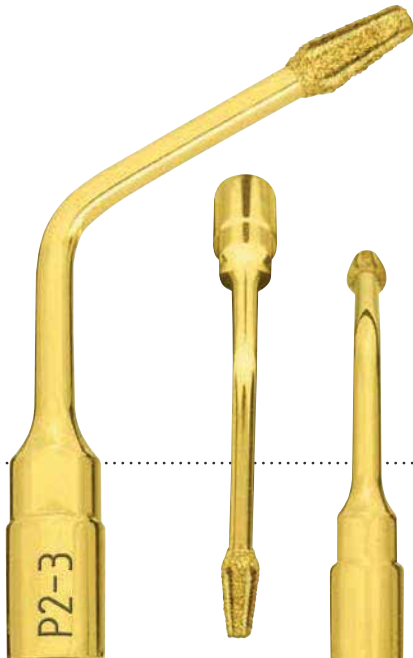
(REF NO. 03510006)





# P2-3

## Pilot implant site preparation insert



diamond grain size 150  $\mu$ m

### 기능

Micrometric osteotomy

### 임상 적용

To optimize concentricity of implant site preparation between  $\varnothing$  2 and  $\varnothing$  3 mm

(REF NO. 03510020)





# P3-4

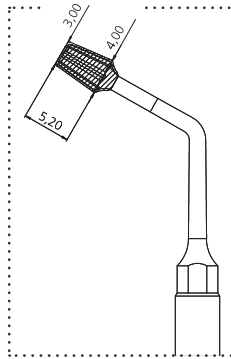
## Pilot implant site preparation insert

### 기능

Micrometric osteotomy

### 임상 적용

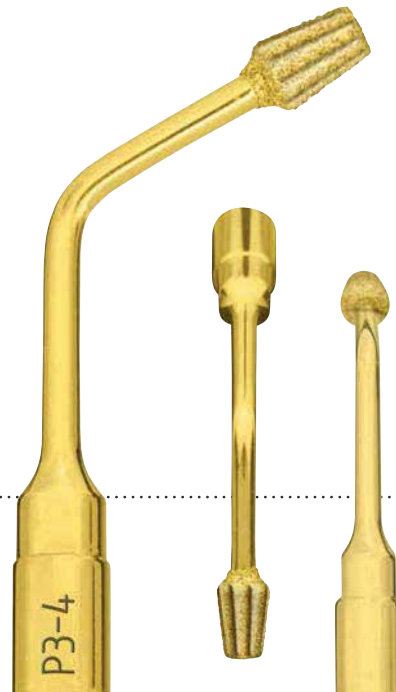
To optimize concentricity of implant site preparation between  $\varnothing 3$  and  $\varnothing 4$  mm



diamond grain size 150  $\mu$ m



(REF NO. 03510021)





# BONE EXPANDERS

Dr. Sentineri's technique

## → AVAILABLE EXPANDERS

2.5 x 11.5



(REF NO. 03780001)

3.5 x 11.5



(REF NO. 03780003)

4.5 x 11.5



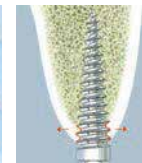
(REF NO. 03780005)

## → TIP 설명

Only the initial part is threaded. When the smooth coronal part comes into contact with the corticalis, instead of penetrating into it, it displaces it, facilitating lateral expansion. Usable with implantology micromotor or ratchet.

## → 임상 적용

- Technique for expanding the atrophic alveolar ridge
- Lateral bone condensation technique
- Alternative to the maxillary sinus elevation technique



Conventional expander



mectron expander





# BONE EXPANDERS

Dr. Sentineri's technique



2.5 x 15

(REF NO. 03780002)



3.5 x 15

(REF NO. 03780004)



4.5 x 15

(REF NO. 03780006)



16 mm

→ ADR16

Long adapter  
for ratchet

(REF NO. 03790003)



7 mm

→ ADR7

Short adapter  
for ratchet

(REF NO. 03790002)



8 mm

→ ADM8

Adapter for  
micromotor

(REF NO. 03790001)

→ RATCHET

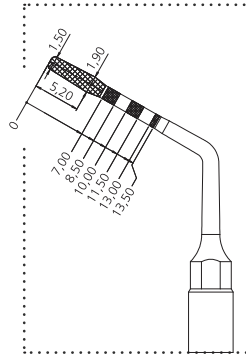
(REF NO. 02270005)





# MDI 1.9

## Mini dental implant insert



→ 기능

Bone perforation

→ 임상 적용

Osteotomy technique for mini implants  
site preparation

(REF NO. 03510012)





# MDI 2.2

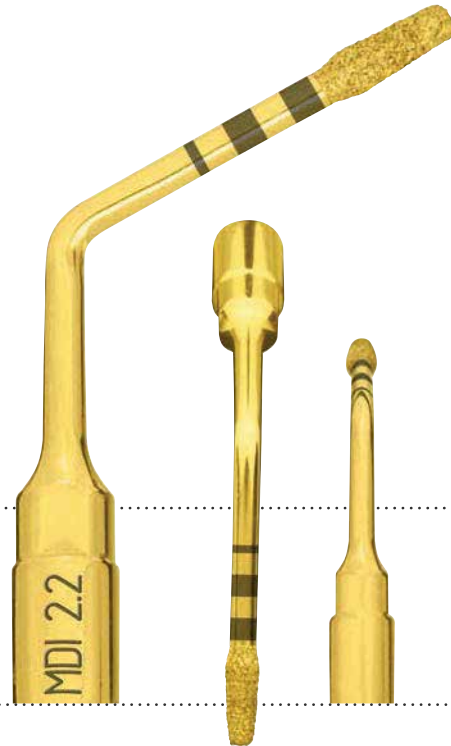
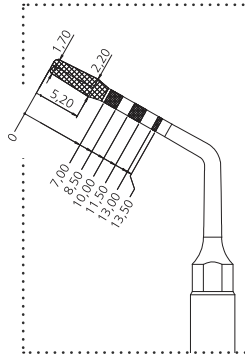
## Mini dental implant insert

### 기능

Bone perforation

### 임상 적용

Osteotomy technique for mini implants site preparation

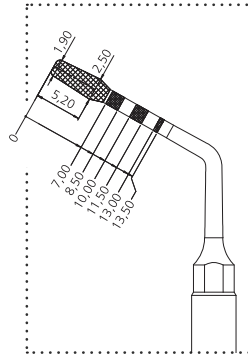
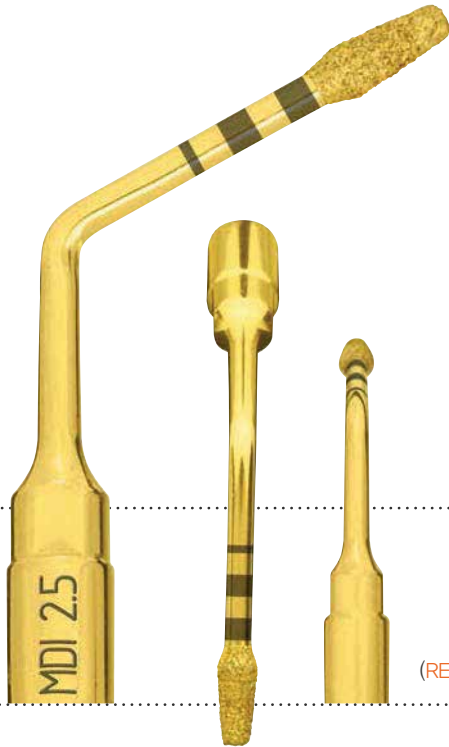


(REF NO. 03510013)



# MDI 2.5

## Mini dental implant insert



### → 기능

Bone perforation

### → 임상 적용

Osteotomy technique for mini implants site preparation

(REF NO. 03510014)



# OT1

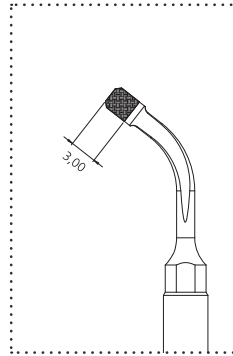
## Sinus bony window osteotomy insert

### → 기능

Micrometric osteotomy (about 1 mm)

### → 임상 적용

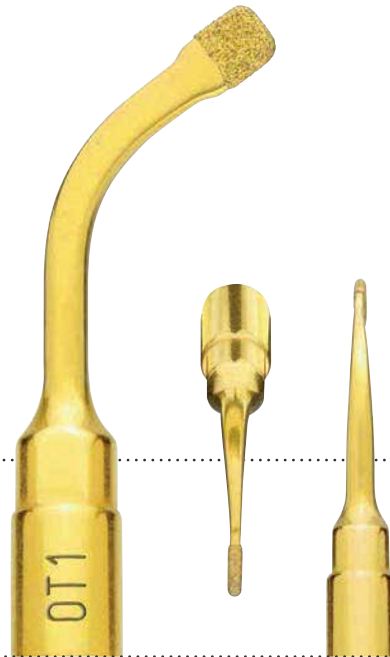
To finalize the osteotomy in proximity of soft tissue (for example : sinus membrane, vessel, alveolar nerve)



diamond grain size 91  $\mu$ m



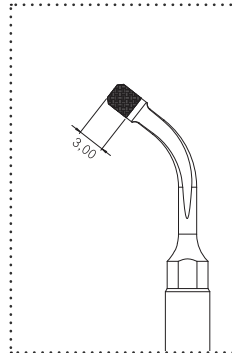
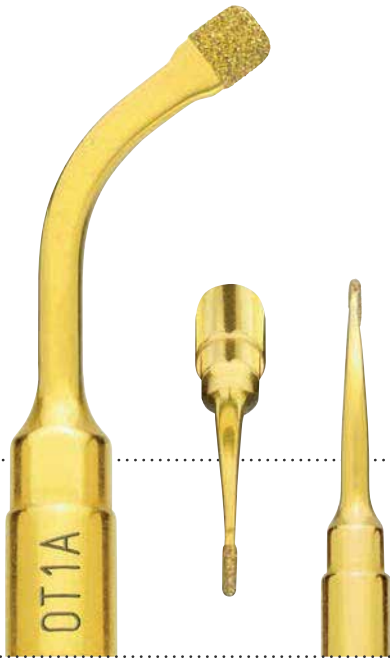
(REF NO. 03370001)





# OT1A

## Sinus bony window osteotomy insert



diamond grain size 126  $\mu$ m

### → 기능

Micrometric osteotomy (about 1 mm)

### → 임상 적용

To finalize the osteotomy in proximity of soft tissue (for example : sinus membrane, vessel, alveolar nerve)

(REF NO. 03370008)



# OT2

## Basic scalpel

### → 기능

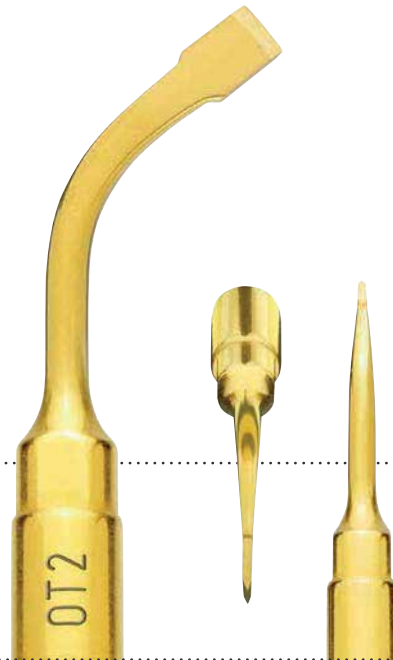
Osteotomy

### → 임상 적용

Osteotome of great precision in anatomically thin expansion, interdental corticotomies, non traumatic nasal spina)



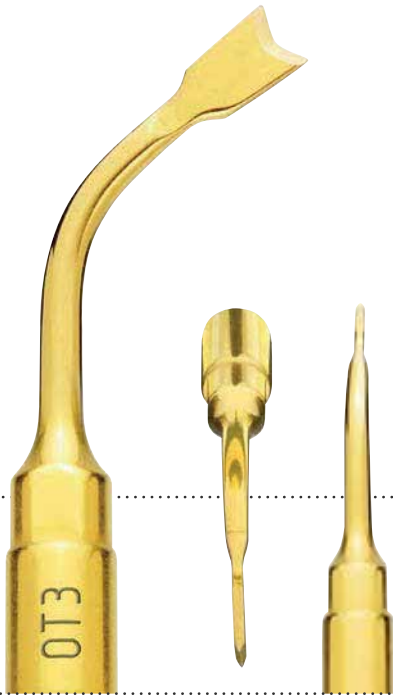
(REF NO. 03370002)





# OT3

## Swallow-tailed osteotome



(REF NO. 03370003)

### → 기능

Osteotomy

### → 임상 적용

Mandibular corticotomy, block harvesting, fragmenta osteotomy





# OT4

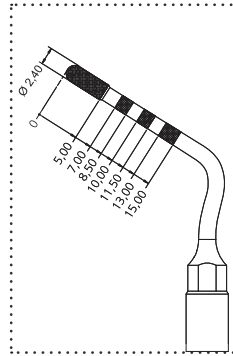
## Differential implant site preparation insert

### 기능

Micrometric osteotomy (about 1 mm)

### 임상 적용

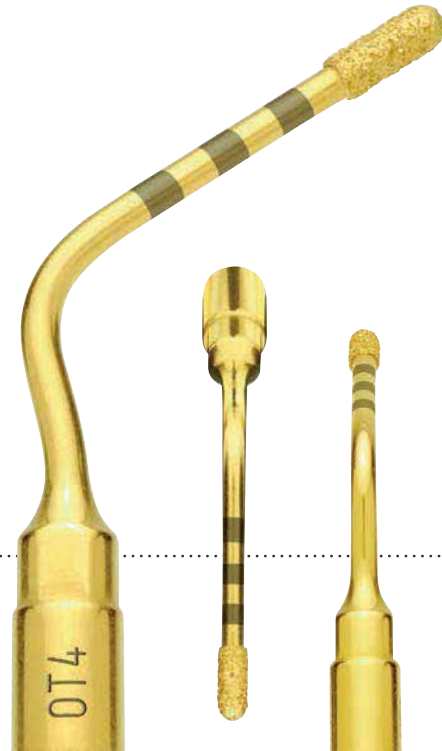
To correct pilot osteotomy axis, to finalize the implant site preparation close to the alveolar nerve : sinus crestal approach technique



diamond grain size 151  $\mu$ m

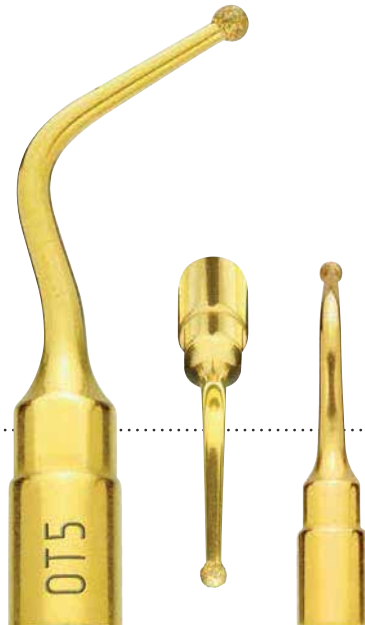


(REF NO. 03370004)



# → OT5 / OT5A / OT5B

Osteoplasty and osteotomy insert



## → 기능

Osteotomy

## → 임상 적용

Non-traumatic, to finalize the osteotomy or osteoplasty on thin bone and/or near delicate anatomic structures

Ø 1.7  
diamond grain size 91 µm

(REF NO. 03370005)



# OT6

## Bone saw 0.75 mm

### → 기능

High effectiveness osteotomy

### → 임상 적용

Osteotomy of large bone sections during maxillofacial surgery



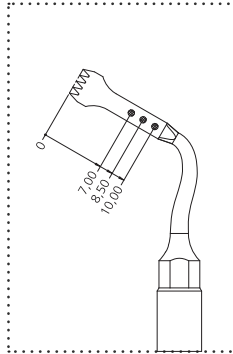
(REF NO. 03370006)





# OT7 / OT7A

Principal micro-saw 0.55 mm



thickness 0.55 mm

(REF NO. 03370007)



thickness 0.75 mm

(REF NO. 03370011)

## → 기능

High effectiveness osteotomy

## → 임상 적용

All the osteotomy technique in maxilla and mandible

- ridge expansion
- corticotomy technique
- bone block grafting





# OT7S-4

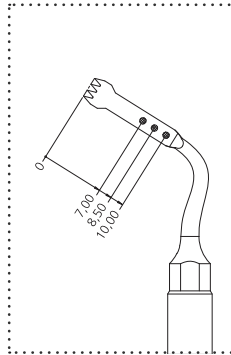
## Special micro-saw 0.35 mm (4 teeth)

### → 기능

High effectiveness and precision osteotomy

### → 임상 적용

Very thin osteotomy, corticotomy for orthodontic microsurgery technique, root separation in dental extraction technique and periodontal surgery

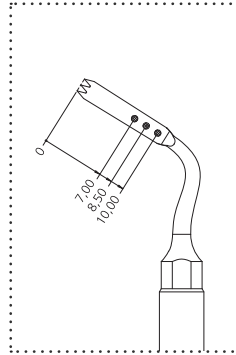
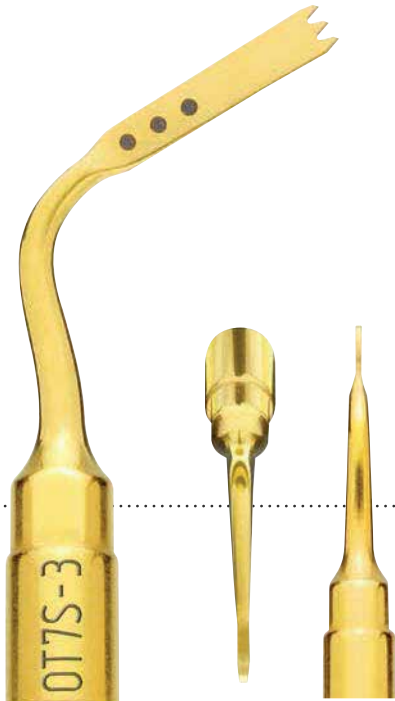


(REF NO. 03370014)



# OT7S-3

Special micro-saw 0.35 mm (3 teeth)



## → 기능

High precision osteotomy

## → 임상 적용

Very thin and small osteotomy and corticotomy technique for orthodontic microsurgery, root fraction technique for dental extraction maneuver

(REF NO. 03370015)





# OT7-20

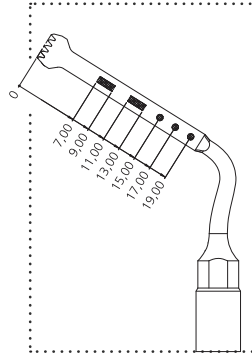
Micro-saw, length 20 mm

## → 기능

High effectiveness osteotomy

## → 임상 적용

Ridge expansion technique, bone block grafting (from chin/mandible ramus), Le Fort I osteotomy, bilateral sagittal split osteotomy



thickness 0.6 mm



tight up this insert only with torque wrench K8

## → OT7-20 SET

The set consists of the insert OT7-20 and the torque wrench K8

(REF NO. 02900103)

(REF NO. 03370017)





# OT8R / OT8L

Angled micro-saw 0.6 mm

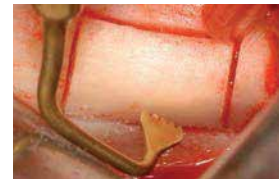


## → 기능

Horizontal osteotomy

## → 임상 적용

All the osteotomy technique  
 in maxilla and mandible  
 · bone block grafting







# OT9

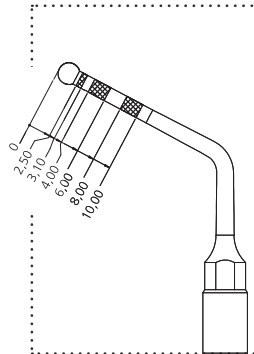
## Osteoplasty and osteotomy insert

### → 기능

Micrometric osteotomy or osteoplasty

### → 임상 적용

To finalize the osteotomy or osteoplasty near delicate anatomic structures :  
removal of the sinus basal cortex in Sinus Physiolift® procedure : insert with double irrigation to avoid overheating



Ø2,4—diamond grain size 151 µm



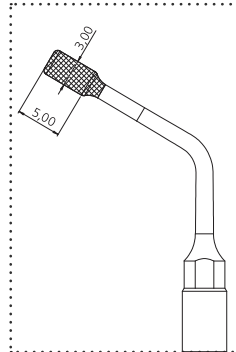
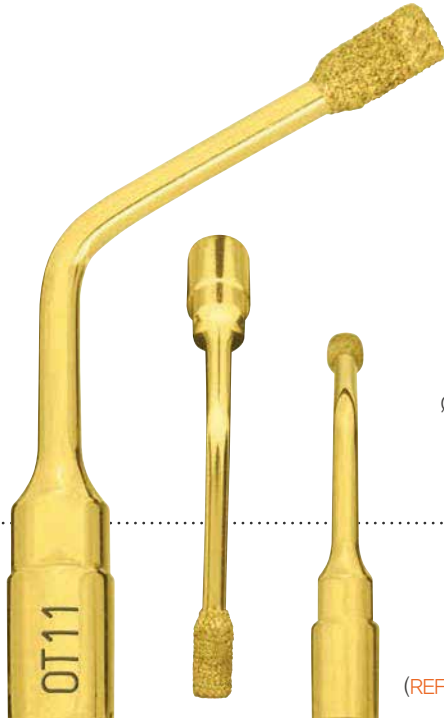
(REF NO. 03370016)





# OT11

## Osteoplasty and osteotomy insert



Ø3.0—diamond grain size 151 µm

(REF NO. 03370019)

### → 기능

Micrometric osteotomy or osteoplasty

### → 임상 적용

Removal of the sinus basal cortex and elevation of the sinus membrane





# OT12

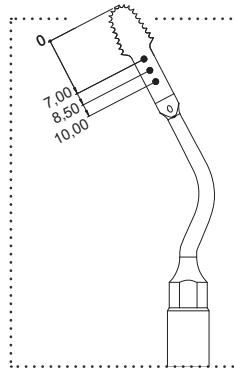
## Circular micro-saw 0,35 mm

### → 기능

High effectiveness and precision osteotomy

### → 임상 적용

Dedicated to the osteotomy techniques where the standard piezoelectric bone saws may have a difficult surgical approach

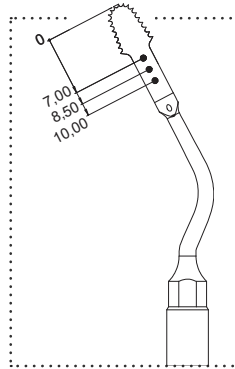


(REF NO. 03370020)



# OT12S

Circular micro-saw 0.25 mm



## → 기능

High effectiveness and precision osteotomy

## → 임상 적용

Dedicated to the osteotomy techniques where the standard piezoelectric bone saws may have a difficult surgical approach

(REF NO. 03370021)



# OT13

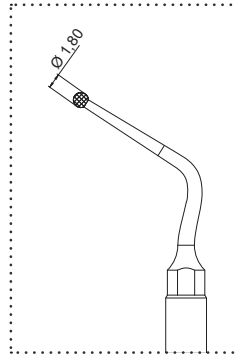
## Osteoplasty and osteotomy insert

### → 기능

Micrometric osteotomy or osteoplasty

### → 임상 적용

Non-traumatic bone defect preparation  
in resective periodontal surgery



Ø1.8—diamond grain size 150 µm



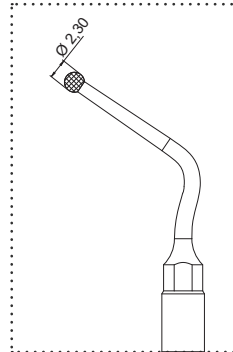
(REF NO. 03370022)





# OT14

## Osteoplasty and osteotomy insert



Ø2.3—diamond grain size 150 µm

### 기능

Micrometric osteotomy or osteoplasty

### 임상 적용

Non-traumatic bone defect preparation in resective periodontal surgery

(REF NO. 03370023)





# SLO-H

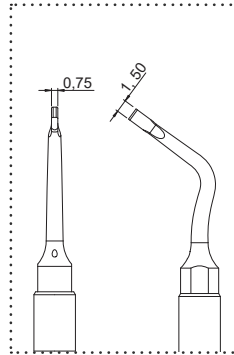
## Sinus bony window osteotomy insert

### → 기능

High precision osteotomy

### → 임상 적용

To finalize the bone window osteotomy to gain access to the sinus membrane



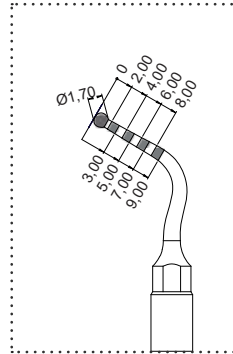
(REF NO. 03370025)





# PL1

## Osteoplasty and osteotomy insert



### 기능

Micrometric osteotomy or osteoplasty

### 임상 적용

Sinus floor reaching and safe bony ring removal during crestal sinus lift procedure (PIEZO-LIFT)



(REF NO. 03370026)





# PL2

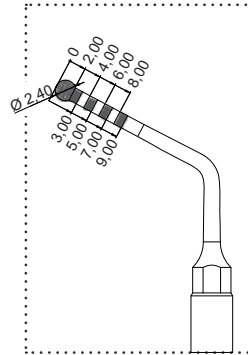
## Osteoplasty and osteotomy insert

### → 기능

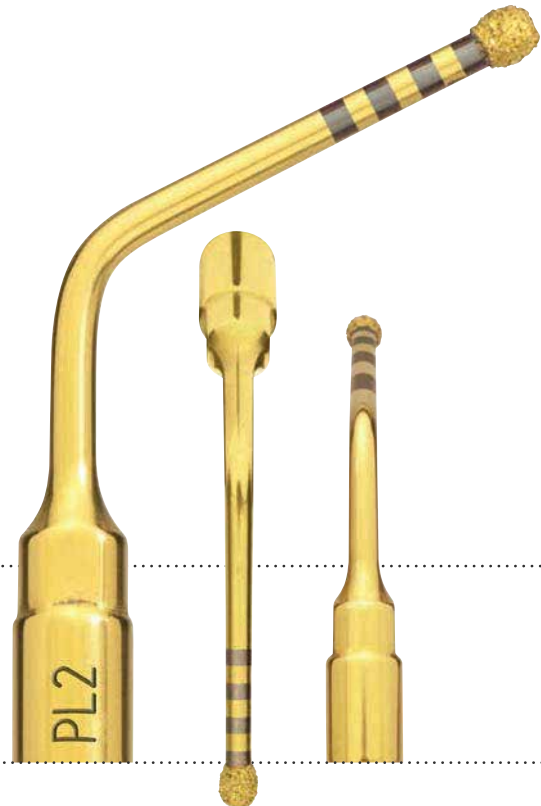
Micrometric osteotomy or osteoplasty

### → 임상 적용

Sinus floor consumption and initial membrane elevation during crestal sinus lift procedure (PIEZO-LIFT)



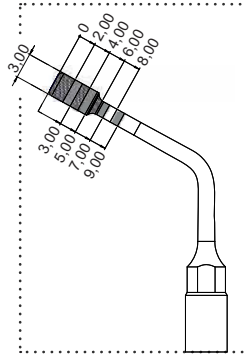
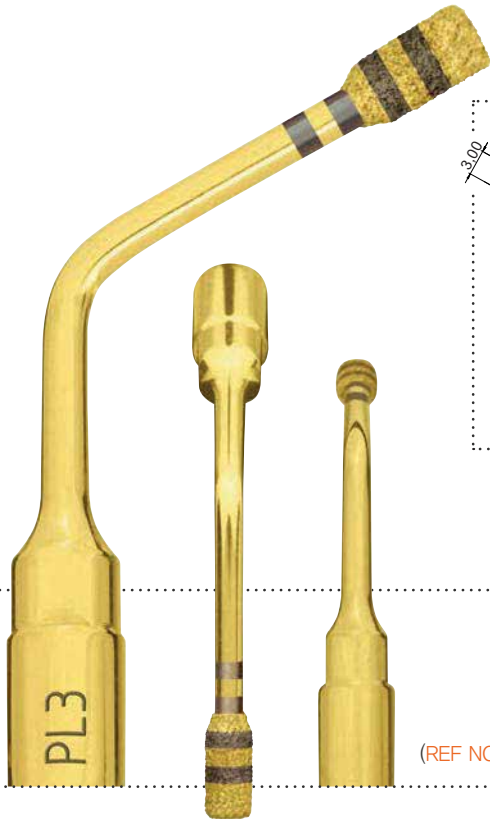
(REF NO. 03370027)





# PL3

## Osteoplasty and osteotomy insert



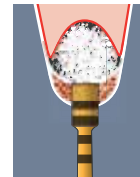
→ 기능

Micrometric osteotomy or osteoplasty

→ 임상 적용

Removal of the sinus basal cortex and elevation of the sinus membrane during crestal sinus lift procedure (PIEZO-LIFT)

(REF NO. 03370028)





# OP1

## Scraper

→ 기능

High efficiency bone osteoplasty

→ 임상 적용

Bone remodelling and harvesting of bone chips



(REF NO. 03380001)





# OP2

## Back action scalpel



(REF NO. 03380002)

### → 기능

Osteoplasty

### → 임상 적용

Bone osteotomy, remodelling and removal of inflammatory tissue



# OP3 / OP3A

Principal osteoplasty insert

## → 기능

Universal osteoplasty

## → 임상 적용

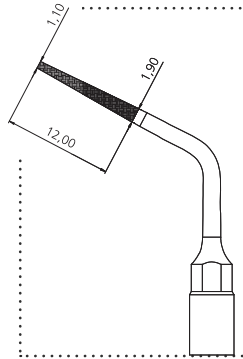
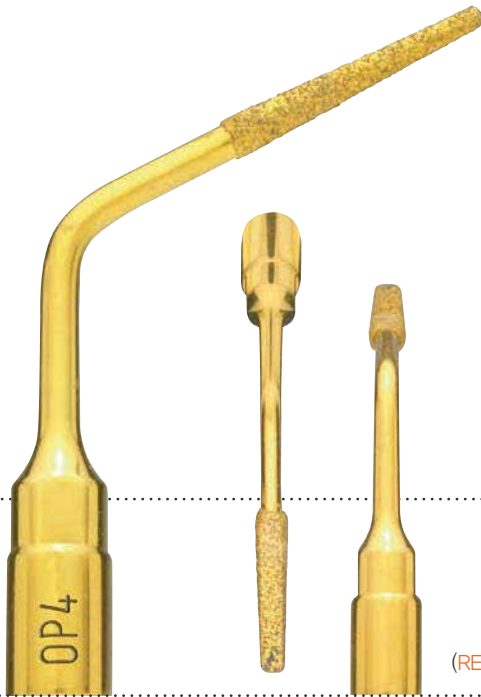
Periodontal osteotomy, crown lengthening, bone chips harvesting, inflammatory tissue removal (cyst, etc.)





# OP4

## Crown lengthening file



diamond grain size 126 μm

→ 기능

Micro-osteoplasty

→ 임상 적용

Interproximal osteoplasty and root planing

(REF NO. 03380004)



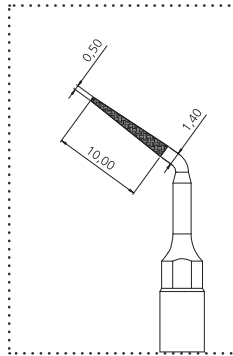


# OP5 / OP5A

## Root debridement insert



diamond grain size 90  $\mu$ m  
(REF NO. 03380012)



### 기능

Micro-osteoplasty

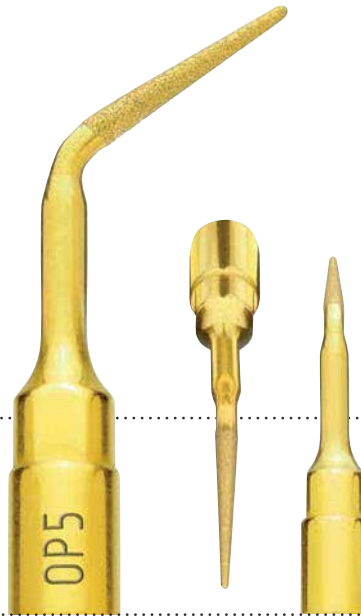
### 임상 적용

Root debridement and root planing during resective and regenerative periodontal surgery



diamond grain size 30  $\mu$ m

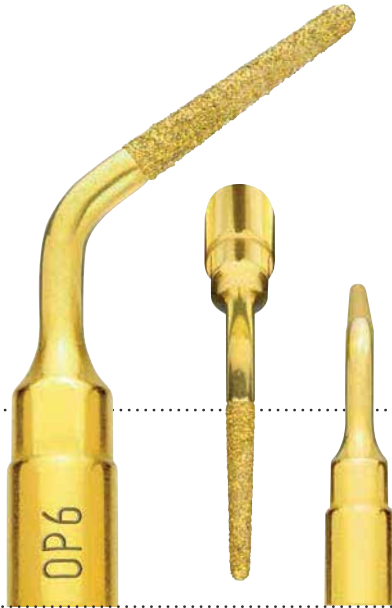
(REF NO. 03380005)





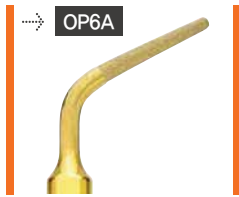
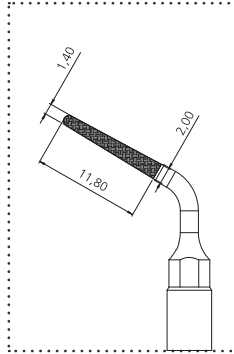
# OP6 / OP6A

## Micro-root-preparation



diamond grain size 126 μm

(REF NO. 03380006)



diamond grain size 30 μm  
(REF NO. 03380010)

→ 기능

Micro-root preparation

→ 임상 적용

Root preparation in periodontal surgery







# OP7

## Endodontic osteoplasty insert

### → 기능

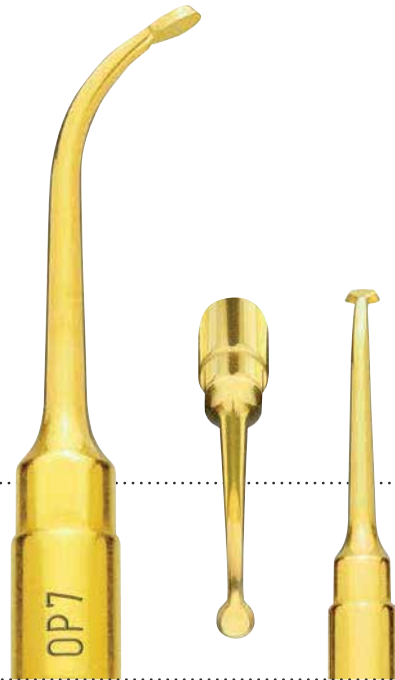
Micro-osteoplasty

### → 임상 적용

Peri-apical maxillary bone osteotomy access, inflammatory tissue removal



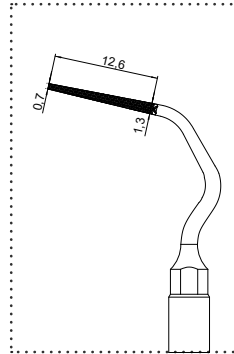
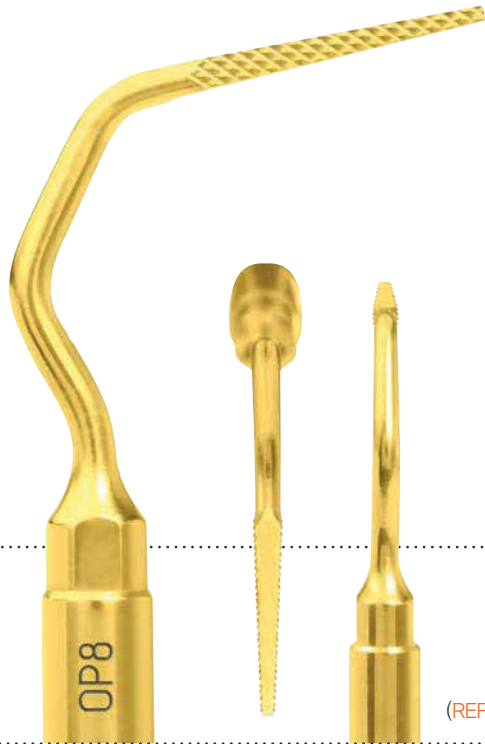
(REF NO. 03380007)





# OP8

## Crown lengthening file / perio file



→ 기능

Micro-osteoplasty

→ 임상 적용

Interproximal osteoplasty without damaging adjacent root surfaces

(REF NO. 03380008)





# OP9

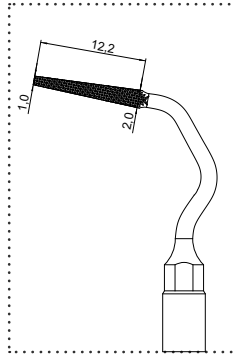
## Crown lengthening file / perio file

→ 기능

Micro-osteoplasty

→ 임상 적용

Interproximal osteoplasty without  
damaging adjacent root surfaces



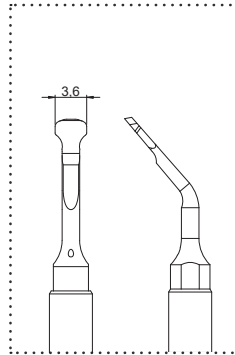
(REF NO. 03380009)





# SLC

## Osteoplasty insert



### → 기능

Universal osteoplasty

### → 임상 적용

Sinus vestibular wall consumption to gain the membrane access : bone chips harvesting, inflammatory tissue removal

(REF NO. 03380013)





# EL1

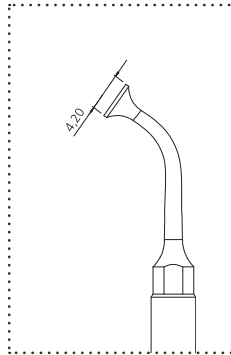
## Sinus membrane separator

### → 기능

Schneiderian membrane separation from bony walls

### → 임상 적용

Separation of the sinus membrane, 2 mm around the frame of bony window



(REF NO. 03390001)





# EL2

## Sinus membrane separator angled at 100°



(REF NO. 03390002)

### → 기능

Non-cutting elevator of the sinus membrane

### → 임상 적용

Separation of the sinus membrane in internal zones





# EL3

## Sinus membrane separator angled at 140°

→ 기능

Non-cutting elevator of the sinus membrane

→ 임상 적용

Separation of the sinus membrane in internal zones

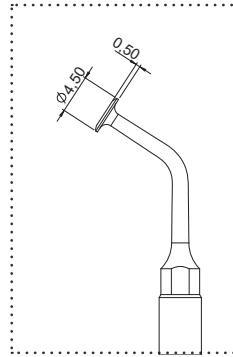


(REF NO. 03390003)



# SLS

## Sinus membrane separator



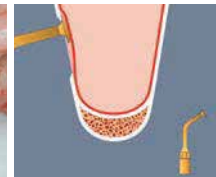
### → 기능

Sinus membrane separator  
membrane

### → 임상 적용

Sinus membrane separation from  
the bony window margins

(REF NO. 03390006)







# SLE1

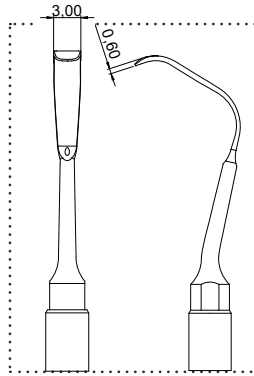
## Sinus membrane elevator

### 기능

Elevator to cut Sharpey's fibers from the endosteum

### 임상 적용

Sinus membrane elevation from the sinus floor

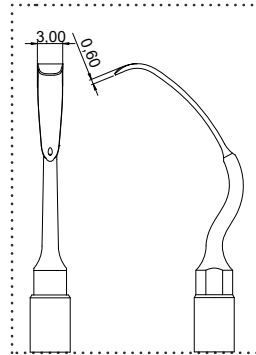


(REF NO. 03390007)



# SLE2

## Sinus membrane elevator



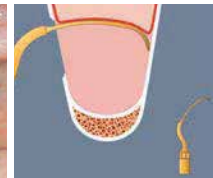
### → 기능

Elevator to cut Sharpey's fibers from the endosteum

### → 임상 적용

Sinus membrane elevation from the palatal wall

(REF NO. 03390008)





# PR1

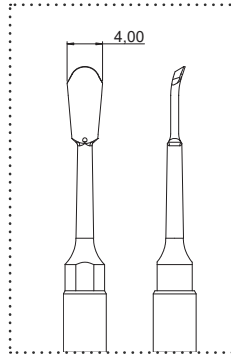
## Piezoelectric raspatory, 4 mm width

→ 기능

Periosteum elevator

→ 임상 적용

Subperiosteal preparation

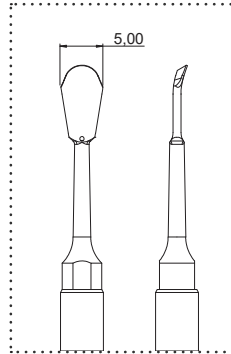
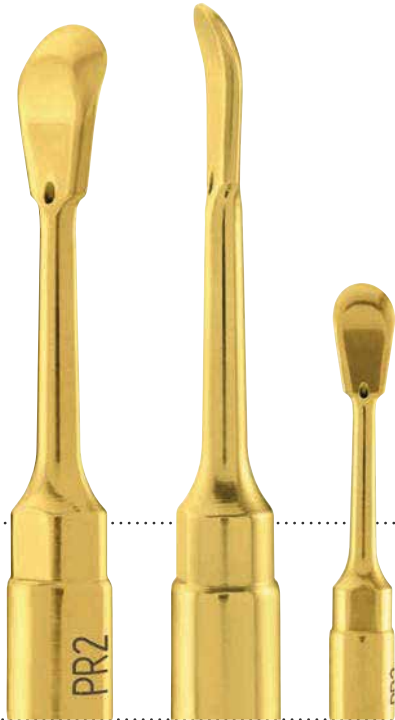


(REF NO. 03390004)



# PR2

## Piezoelectric raspatory, 5 mm width



➔ 기능

Periosteum elevator

➔ 임상 적용

Subperiosteal preparation

(REF NO. 03390005)





# EN1

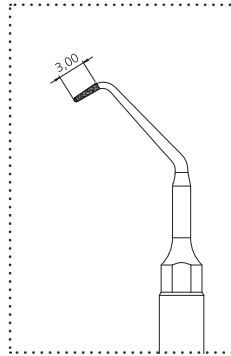
## Diamond-coated endo apical debrider 3 mm

→ 기능

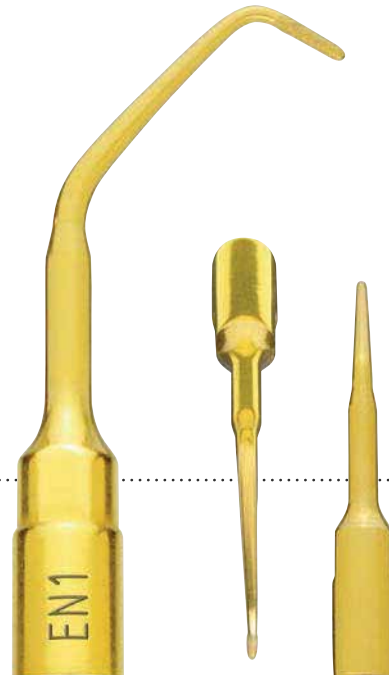
Efficient canal cleaning

→ 임상 적용

Apical root debridement



diamond grain size 30 μm

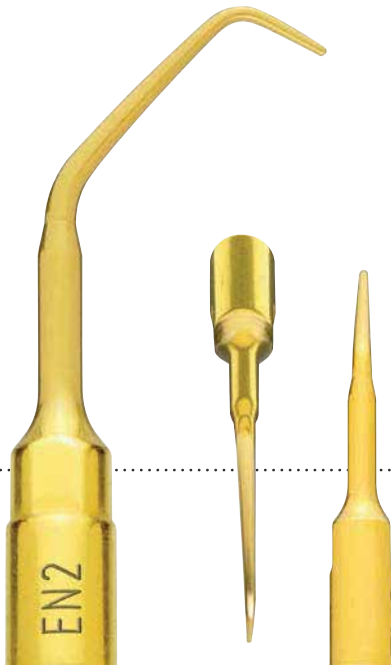


(REF NO. 02170001)



# EN2

## Smooth endo apical debrider 3 mm



(REF NO. 02170002)

→ 기능

Gentle canal cleaning

→ 임상 적용

Gentle apical root debridement





# EN3

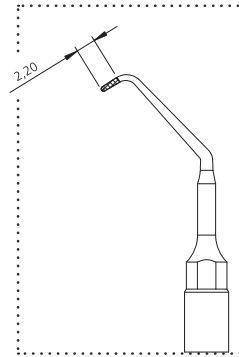
## Diamond-coated endo apical debrider 2.2 mm

→ 기능

Efficient canal cleaning

→ 임상 적용

Apical root debridement



diamond grain size 30 μm

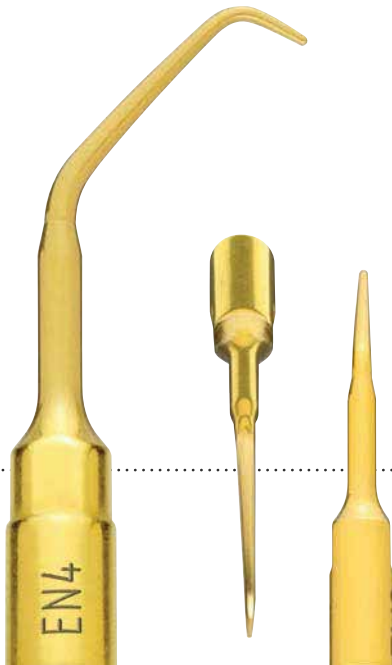


(REF NO. 02170005)



# EN4

## Smooth endo apical debrider 2.2 mm



→ 기능

Gentle canal cleaning

→ 임상 적용

Gentle apical root debridement

(REF NO. 02170006)





# EN5R

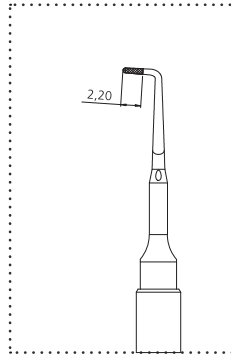
## Right angled, diamond-coated endo apical debrider 2.2 mm

→ 기능

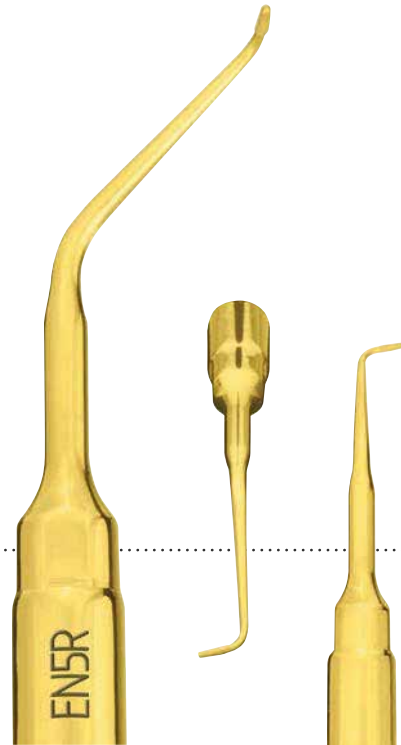
Efficient canal cleaning

→ 임상 적용

Apical root debridement



diamond grain size 30 µm

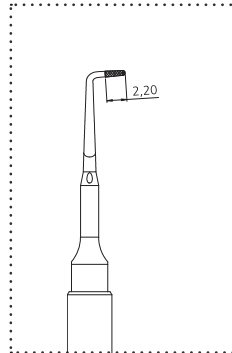
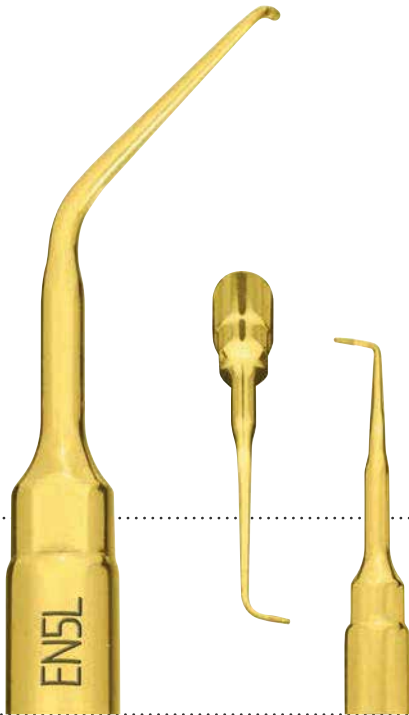


(REF NO. 02170007)



# EN5L

Left angled, diamond-coated endo apical debrider 2.2 mm



diamond grain size 30  $\mu$ m

→ 기능

Efficient canal cleaning

→ 임상 적용

Apical root debridement

(REF NO. 02170008)



# EN6R

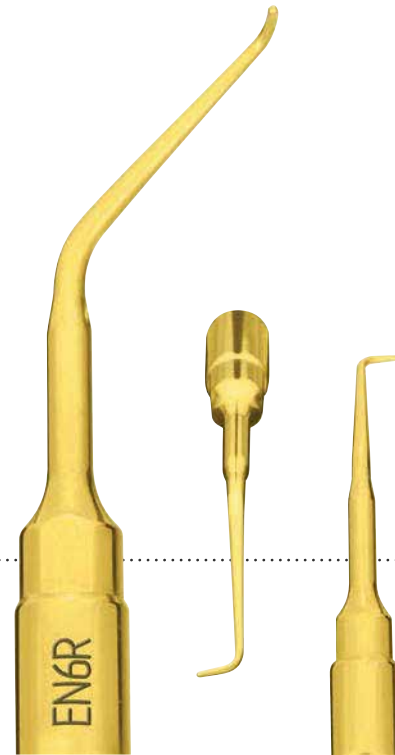
Right angled, smooth endo apical debrider 2.2 mm

→ 기능

Efficient canal cleaning

→ 임상 적용

Apical root debridement

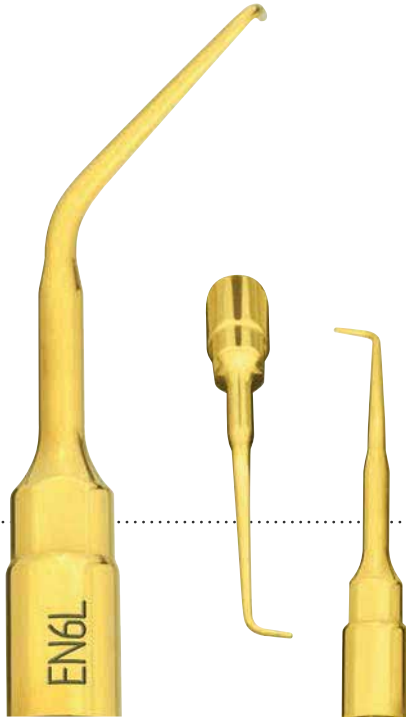


(REF NO. 02170009)



# EN6L

Left angled, smooth endo apical debrider 2.2 mm



(REF NO. 02170010)

→ 기능

Efficient canal cleaning

→ 임상 적용

Apical root debridement



# EX1

## Principal extraction scalpel

### → 기능

Delicate osteotomy

### → 임상 적용

To cut off the ankylosis, root fraction techniques



(REF NO. 03400001)





# EX2 / EX3

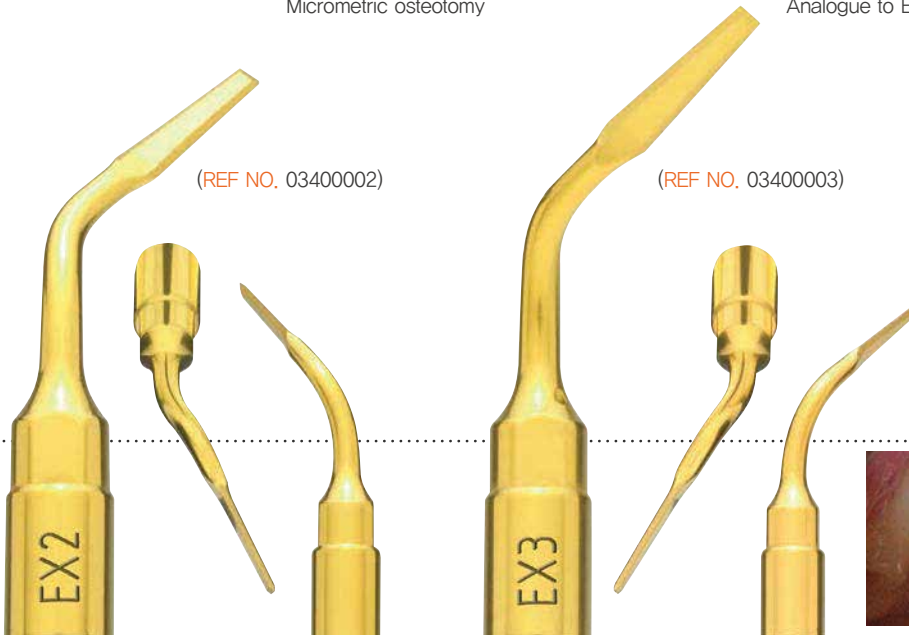
## Angled extraction scalpel

→ 기능

Micrometric osteotomy

→ 임상 적용

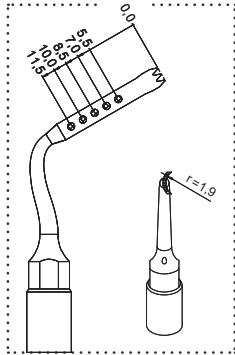
Analogue to EX1 in the posterior regions





# EXP3-R / EXP3-L

Explantations



→ 기능

Peri-implant osteotomy

→ 임상 적용

Explantations

(REF NO. 03400004)

(REF NO. 03400005)





# EXP4-R / EXP4-L

Angled extraction scalpel



(REF NO. 03400006)

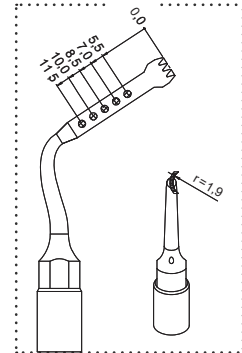
기능

Peri-implant osteotomy

임상 적용

Explantations

(REF NO. 03400007)







# PS1

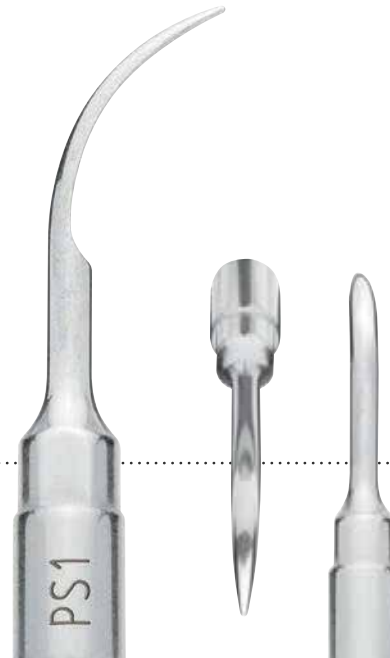
## Periodontal curette

→ 기능

Gentle scaling

→ 임상 적용

Root scaling

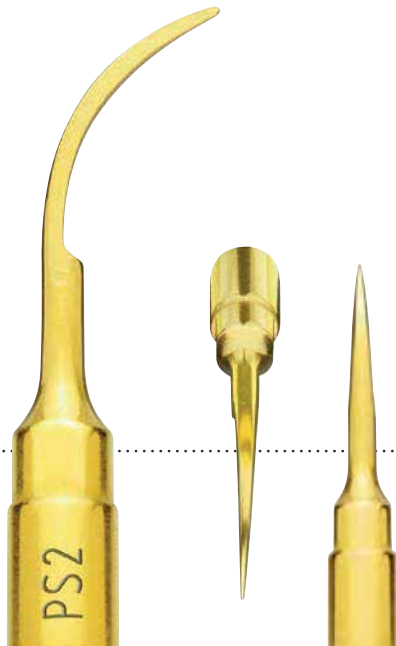


(REF NO. 03180001)



# PS2

## Principal periodontal scaler



(REF NO. 03180003)

### → 기능

Powerful scaling

### → 임상 적용

Scaling and inflammatory tissue removal  
fractured root apex extraction





# PS6

## Angled curette

→ 기능

Gentle scaling

→ 임상 적용

Root scaling



(REF NO. 03180005)





# PP1

## Principal root planing insert



(REF NO. 03180002)

→ 기능

Root surface micro-smoothing

→ 임상 적용

Root planing





# PP10

## Gentle perio anatomic insert

→ 기능

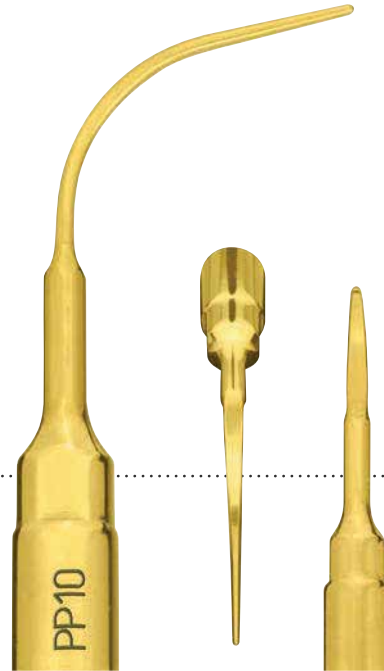
Root surface micro-smoothing

→ 임상 적용

Gentle subgingival concretions removal



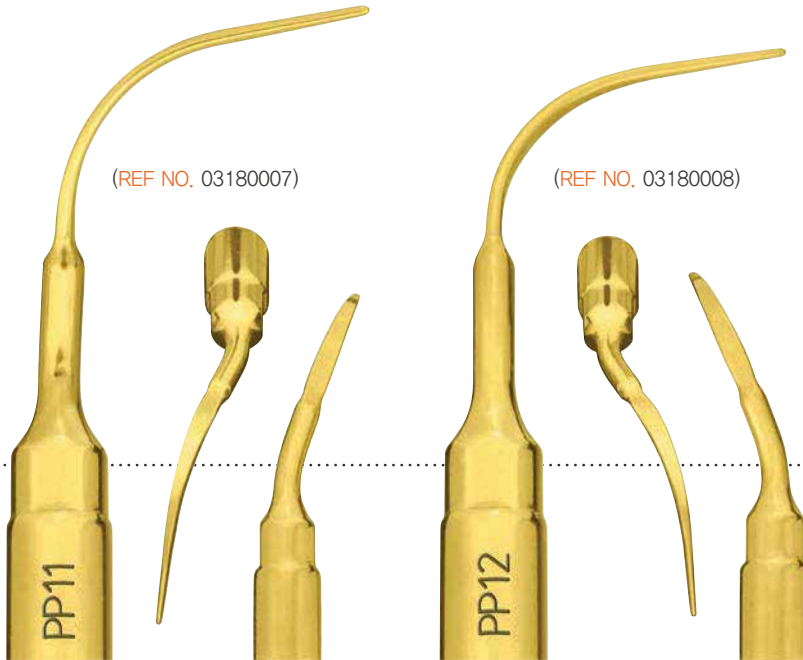
(REF NO. 03180006)





# PP11 / PP12

Left and right angled, gentle perio anatomic insert



## 기능

Root surface micro-smoothing

## 임상 적용

Gentle subgingival concretions removal



# → ICP + IC1 Implant cleaning

## → 기능

Gentle and safe cleaning action of the implant surface

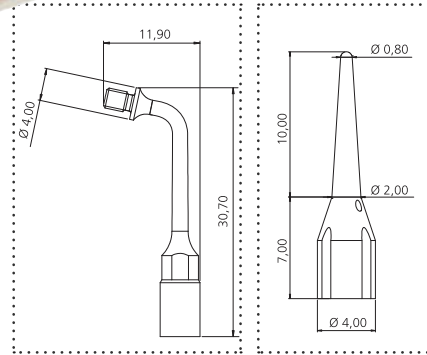
## → 임상 적용

Efficient and soft cleaning of implants and restorations

### → IMPLANT CLEANING SET P

The set consists of a tipholder ICP and 5 tips IC1

(REF NO. 01520020)



### → ICP

tip holder  
ICP

(REF NO. 03570003)

### → IC1 (5 PIECES)

implant cleaning tip IC1 can be easily tightened without special tools and is fully autoclavable

(REF NO. 02900112)

# → CROWN PREP TIPS

## Preparation and finishing of subgingival margins

→ TIP HOLDER DB2  
WITH CROWN  
PREP TIP TA14D60

(REF NO. 03570002)

→ DYNAMOMETRIC  
WRENCH K7

(REF NO. 02900081)

CRWON PREP SET  
DB2, AB1 AND K7  
(REF NO. 02160010)

→ 기능

Micro-smoothing

→ 임상 적용

Ultrasonic finishing of the cervical margin

→ KEY AB1

(REF NO. 03580001)

→ CROWN PREP TIP  
TA14D60

LENGTH 10 MM	DIAMOND COATING		
Diameter	D120	D90	D60
1.2 mm		TA12D90 (REF NO. 03590004)	TA12D60 (REF NO. 03590001)
1.4 mm	TA14D120 (REF NO. 03590007)	TA14D90 (REF NO. 03590005)	TA14D60 (REF NO. 03590002)
1.6 mm	TA16D120 (REF NO. 03590008)	TA16D90 (REF NO. 03590006)	TA16D60 (REF NO. 03590003)



# → APPROPRIATE INSERT SETTINGS



INSERT	FUNCTION (MODE)
<b>IMPLANT PREP</b>	
IM1S	Special *
IM1 AL	Implant
IM2A	Implant
IM2A-15	Implant
IM2P	Implant
IM2P-15	Implant
IM2.8A	Implant
IM2.8P	Implant
IM3A	Implant
IM3A-15	Implant
IM3P	Implant
IM3P-15	Implant
IM3.4A	Implant
IM3.4P	Implant
IM4A	Implant
IM4P	Implant
P2-3	Implant
P3-4	Implant

INSERT	FUNCTION (MODE)
<b>OSTEOTOMY</b>	
OT1	Cancellous / Cortical
OT1A	Cancellous / Cortical
OT2	Cancellous / Cortical
OT3	Cancellous / Cortical
OT4	Cancellous / Cortical
OT5	Cancellous / Cortical
OT5A	Cancellous / Cortical
OT5B	Cancellous / Cortical
OT6	Cancellous / Cortical
OT7	Cancellous / Cortical
OT7A	Cancellous / Cortical
OT7S-3	Special *
OT7S-4	Special *
OT7-20	Cancellous / Cortical
OT8L	Cancellous / Cortical
OT8R	Cancellous / Cortical
OT9	Cancellous / Cortical
OT11	Cancellous / Cortical
OT12	Cancellous / Cortical
OT12S	Special *
OT13	Cancellous / Cortical
OT14	Cancellous / Cortical
SLO-H	Cancellous / Cortical
PL1	Cancellous / Cortical
PL2	Cancellous / Cortical
PL3	Cancellous / Cortical

\* Maximum power permitted

INSERT	FUNCTION (MODE)
--------	-----------------

### OSTEOPLASTY

OP1	Cancellous / Cortical
OP2	Cancellous / Cortical
OP3	Cancellous / Cortical
OP3A	Cancellous / Cortical
OP4	Cancellous / Cortical
OP5	Perio
OP5A	Perio / Special
OP6	Perio
OP6A	Perio
OP7	Cancellous / Cortical
OP8	Perio / Special
OP9	Cancellous / Cortical
SLC	Cancellous / Cortical

### MINI IMPLANT PREP

MDI 1.9	Implant
MDI 2.2	Implant
MDI 2.5	Implant

### PERIOSTEUM

PR1	Cancellous / Cortical
PR2	Cancellous / Cortical

INSERT	FUNCTION (MODE)
--------	-----------------

### SINUS MEMBRANE ELEVATION

EL1	Endo *
EL2	Endo *
EL3	Endo *
SLS	Special *
SLE1	Special *
SLE2	Special *

### ENDO PETRO

EN1	Endo *
EN2	Endo *
EN3	Endo *
EN4	Endo *
EN5R	Endo *
EN5L	Endo *
EN6R	Endo *
EN6L	Endo *

### IMPLANT CLEANING

ICP + IC1	Endo / Perio
-----------	--------------

INSERT	FUNCTION (MODE)
--------	-----------------

### EXPLANTATION

EXP3-R	Special / Cancellous / Cortical
EXP3-L	Special / Cancellous / Cortical
EXP4-R	Special / Cancellous / Cortical
EXP4-L	Special / Cancellous / Cortical

### EXTRACTION

EX1	Cancellous / Cortical
EX2	Cancellous / Cortical
EX3	Cancellous / Cortical

### PERIO

PP1	Perio
PS1	Perio
PS2	Perio
PS6	Perio
PP10	Perio
PP11	Perio
PP12	Perio

### RESTORATIVE

DB2	Perio / Seecial
-----	-----------------

\* Maximum power permitted



# IMPLANT SITE PREPARATION SEQUENCE

→ IMPLANTS 3.2–3.3		→ IMPLANTS 3.7–3.8		→ IMPLANTS 4.0–4.1		→ IMPLANTS 4.8–5.0	
INSERT SEQUENCE	BONE QUALITY	INSERT SEQUENCE	BONE QUALITY	INSERT SEQUENCE	BONE QUALITY	INSERT SEQUENCE	BONE QUALITY
IM1S		IM1S		IM1S		IM1S	
IM2	L	IM2		IM2		IM2	
P2–3 *		P2–3 *		P2–3 *		P2–3 *	
IM2.8	M	IM2.8	L	IM3	L	IM3	
IM3	H	IM3	M	P3–4 *		P3–4 *	
		P3–4 *		IM3.4	M	IM4	L M
		IM3.4	H	CORTICAL BONE TAP TOOL	H	CORTICAL BONE TAP TOOL	H

\* Only crestal cortical

L	Low bone density
M	Medium bone density
H	Hard bone density



# REFERENCE NUMBERS

→ ITEM/REFERENCE NUMBER	
INSERT IM1S	03510019
PIN IM1	03740002
PIN IM1S	03740007
PIN 2–2.4	03740003
PIN 2–3	03740001
INSERT IM1 AL	03510010
PIN IM1 AL	03740004
PIN 2–2.4 AL	03740005
PIN 2–3 AL	03740006
INSERT IM2A	03510001
INSERT IM2A–15	03510015
INSERT IM2P	03510002
INSERT IM2P–15	03510016
INSERT IM2.8A	03510025
INSERT IM2.8P	03510026
INSERT IM3A	03510003
INSERT IM3A–15	03510017
INSERT IM3P	03510004
INSERT IM3P–15	03510018
INSERT IM3.4A	03510027
INSERT IM3.4P	03510028
INSERT IM4A	03510005
INSERT IM4P	03510006
INSERT P2–3	03510020
INSERT P3–4	03510021

→ ITEM/REFERENCE NUMBER	
EXPANDER 2.5 x 11.5	03780001
EXPANDER 3.5 x 11.5	03780003
EXPANDER 4.5 x 11.5	03780005
EXPANDER 2.5 x 15	03780002
EXPANDER 3.5 x 15	03780004
EXPANDER 4.5 x 15	03780006
ADM8	03790001
ADR7	03790002
ADR16	03790003
RATCHET	02270005
INSERT MDI 1.9	03510012
INSERT MDI 2.2	03510013
INSERT MDI 2.5	03510014
INSERT OT1	03370001
INSERT OT1A	03370008
INSERT OT2	03370002
INSERT OT3	03370003
INSERT OT4	03370004
INSERT OT5	03370005
INSERT OT5A	03370009
INSERT OT5B	03370010
INSERT OT6	03370006
INSERT OT7	03370007
INSERT OT7A	03370011
INSERT OT7S–4	03370014

→ ITEM/REFERENCE NUMBER	
INSERT OT7S–3	03370015
INSERT OT7–20	03370017
INSERT OT7–20 SET	02900103
INSERT OT8R	03370012
INSERT OT8L	03370013
INSERT OT9	03370016
INSERT OT11	03370019
INSERT OT12	03370020
INSERT OT12S	03370021
INSERT OT13	03370022
INSERT OT14	03370023
INSERT SLO–H	03370025
INSERT PL1	03370026
INSERT PL2	03370027
INSERT PL3	03370028
INSERT OP1	03380001
INSERT OP2	03380002
INSERT OP3	03380003
INSERT OP3A	03380011
INSERT OP4	03380004
INSERT OP5	03380005
INSERT OP5A	03380012
INSERT OP6	03380006
INSERT OP6A	03380010
INSERT OP7	03380007



# REFERENCE NUMBERS

→ ITEM/REFERENCE NUMBER	
INSERT OP8	03380008
INSERT OP9	03380009
INSERT SLC	03380013
INSERT EL1	03390001
INSERT EL2	03390002
INSERT EL3	03390003
INSERT SLS	03390006
INSERT SLE1	03390007
INSERT SLE2	03390008
INSERT PR1	03390004
INSERT PR2	03390005
INSERT EN1	02170001
INSERT EN2	02170002
INSERT EN3	02170005
INSERT EN4	02170006
INSERT EN5R	02170007
INSERT EN5L	02170008
INSERT EN6R	02170009
INSERT EN6L	02170010
INSERT EX1	03400001
INSERT EX2	03400002
INSERT EX3	03400003
INSERT EXP3-R	03400004
INSERT EXP3-L	03400005
INSERT EXP4-R	03400006

→ ITEM/REFERENCE NUMBER	
INSERT EXP4-L	03700007
INSERT PS1	03180001
INSERT PS2	03180003
INSERT PS6	03180005
INSERT PP1	03180002
INSERT PP10	03180006
INSERT PP11	03180007
INSERT PP12	03180008
TIPHOLDER ICP	03570003
TIP IC1 (5 PIECES)	02900112
IMPLANT CLEANING SET P (ICP AND 5 TIPS IC1)	01520020
CROWN PREP KIT PS (DB2, AB1 AND K7)	02160010
TIPHOLDER DB2	03570002
KEY AB1	03580001
DYNAMOMETRIC WRENCH K7	02900081
CROWN PREP TIP TA12D60	03590001
CROWN PREP TIP TA14D60	03590002
CROWN PREP TIP TA16D60	03590003
CROWN PREP TIP TA12D90	03590004
CROWN PREP TIP TA14D90	03590005
CROWN PREP TIP TA16D90	03590006
CROWN PREP TIP TA14D120	03590007
CROWN PREP TIP TA16D120	03590008

# → SPARE PARTS

→ LED HANDPIECE



REF NO. 03120134

→ FOOTSWITCH



REF NO. 02900114

→ TORQUE WRENCH K8



REF NO. 02900109

→ SILICONE TUBES



8 PIECES  
REF NO. 02900104

→ SURGICAL TRAY – SMALL



REF NO. 04610004

→ IRRIGATION SET



REF NO. 03230006

→ IRRIGATION HOLDER



1 PIECES

→ SOHN-028i



→ SOHN-SAW



→ SB-0320



→ SOHN-016



→ SOHN-020is



STOPPER 2-4-6-8-11mm 포함