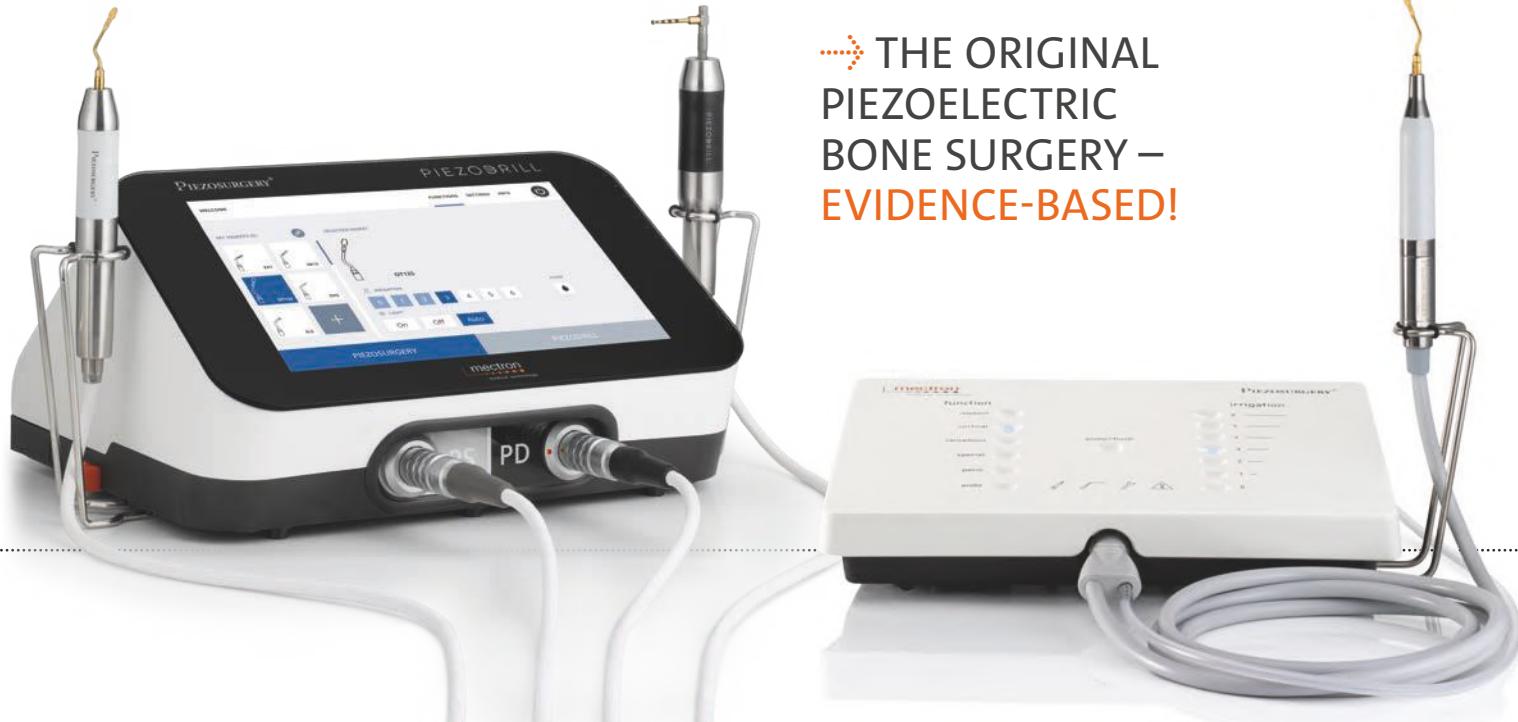




MECTRON  
PIEZOSURGERY® AND  
PIEZODRILL® INSERTS



# PIEZOSURGERY® AND PIEZODRILL®



THE ORIGINAL  
PIEZOELECTRIC  
BONE SURGERY –  
EVIDENCE-BASED!

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# → PIEZOSURGERY® AND PIEZODRILL® TECHNIQUE

→ MECTRON HAS  
DEFINED A NEW  
DIMENSION IN  
BONE SURGERY



- It's simple, stress-free and selective
- It increases the quality and success for you and your patients

MT-BONE is not only introducing the new PIEZODRILL® technology but also ushering in a new era of PIEZOSURGERY® with enhanced power, improved insert control, and an innovative unit setting.

- MICROMETRIC CUTS: optimal surgical precision and intra-operative sensitivity
- SELECTIVE CUTS: minimal damage to soft tissue, offering safety for you and your patients
- CAVITATION EFFECT: optimal intra-operative visibility and a blood-free surgical site
- HISTOLOGICAL ADVANTAGE: more favorable bone healing in osseointegration process



# → INSERT QUALITY



## → PRECISION

A CNC controlled 5-dimensional sharpening machine cuts with an accuracy of up to 0.01 mm. The whole cutting process for a single insert last up to 12 min.

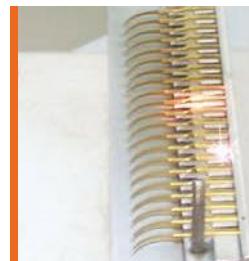


## → MATERIAL

mectron ultrasound inserts are built with medical grade, high quality, stainless steel.

## → HIGH END INSERTS FOR PROFESSIONALS

Each mectron ultrasound insert will pass through 12 working steps



### → DIAMOND COATING

Depending on the indication, the inserts are coated with specially selected diamonds. The granulometry of the diamond coating is adapted to the respective treatment.

### → TITANIUM NITRIDE COATING

A coating of titanium nitride, applied to inserts which treat bone, increases the hardness of the surface, avoids corrosion and therefore increases working life.

### → LABELING

Each insert is gently labeled by a laser.

### → QUALITY CHECK

Each insert is checked in detail before getting an OK for the sales.

# INDICATIONS

→ SINUS LIFT TECHNIQUE CRESTAL APPROACH	→ SINUS LIFT TECHNIQUE LATERAL APPROACH	→ IMPLANT SITE PREPARATION - PIEZOSURGERY®	→ IMPLANT SITE PREPARATION - PIEZODRILL®	→ RIDGE EXPANSION	→ PERIOSTEUM PREPARATION	→ EXTRactions	→ THIRD MOLAR EXTRACTION
→ PIEZO-LIFT	→ STANDARD	→ STANDARD	→ OPTIONAL	→ STANDARD	→ STANDARD	→ STANDARD	→ STANDARD
PL1	OP3	IM1S	IM1 AL	PD0118A	OT7	PR1	EX1
PL2	OT5	IM2A	IM2A-15	PD0223A	OT7S-4	PR2	EX2
PL3	SLC	IM3A	IM2.8A	PD0328A	OT7S-3		EX3
PL0419	SLO-H	IM4A	IM3A-15	PD0432A	OT12		PS2
PL0527	SLS	IM2P	IM3.4A	PD0535A	→ OPTIONAL		
PL0631	SLE1	IM3P	IM2P-15	PD0118B	OP5		
PL0719	SLE2	IM4P	IM2.8P	PD0223B	OT2		
	EL1	OT4	IM3P-15	PD0328B	OT4		
	→ OPTIONAL	P2-3	IM3.4P	PD0432B	OT7A		
	OT1	P3-4	PIN IM1	PD0535B	OT12S		
	OT1A		PIN IMS		OT7-20		
	OT5A		PIN 2-2.4				
	OT5B						
	EL2						
	EL3						



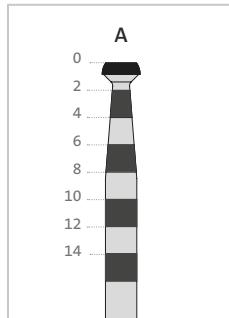
→ EXPLANTATION	→ BONE BLOCK GRAFTING	→ BONE CHIP GRAFTING/BONE MODELING	→ ENDODONTICS	→ OSTEOTOMY CLOSE TO NERVES	→ CORTICOTOMY TECHNIQUE	→ PERIODONTAL SURGERY	→ CROWN PREPARATION
→ STANDARD	→ STANDARD	→ STANDARD	→ STANDARD	→ STANDARD	→ STANDARD	→ STANDARD	→ OPTIONAL
EXP3-R	OT7	OP3	OP7	OT1	OT7S-4	OP5A	PS1
EXP3-L	OP5	SLC	PS2	OT5	OT7S-3	OP8	PS6
EXP4-R	OT8L	→ OPTIONAL	EN1		→ OPTIONAL	OP9	PP10
EXP4-L	OT8R	OP1	EN2		OT7	OT13	PP11
	OT12	OP2	EN3		OT7A	OT14	PP12
	→ OPTIONAL	OP3A	EN4			OP5	OP2
	OT6		→ OPTIONAL			OP3	OP3A
	OT7A		EN5R			PS2	OP4
	OT7S-4		EN5L			PP1	OP6
	OT7S-3		EN6R			ICP + IC1	
	OT12S		EN6L				TA16D120* Ø 1.2 mm
	OT7-20		OP3				TF12D90*
							TF16D90* Ø 1.6 mm
							TF16D60*



# PIEZODRILL® SET A

Set of 5 sequential inserts for implant site preparation up to Ø 3.5 mm

even depth marks  
from 2 mm.



## → EQUIPPED WITH:

- 1 insert PD0118A
- 1 insert PD0223A
- 1 insert PD0328A
- 1 insert PD0432A
- 1 insert PD0535A
- 1 insert tray



→ PD0118A → PD0223A → PD0328A → PD0432A → PD0535A

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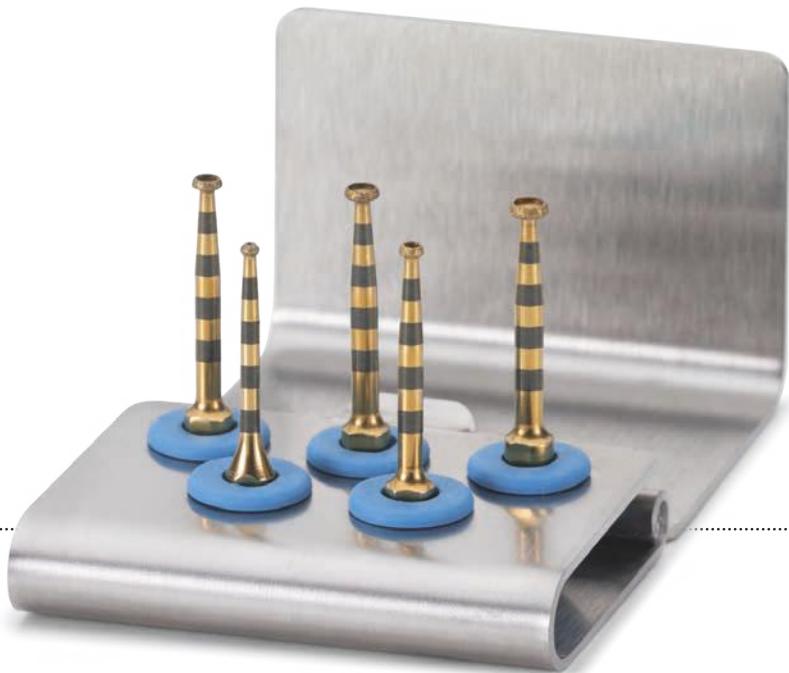


PIEZODRILL®

PIEZOSURGERY®

# → PIEZODRILL® SET B

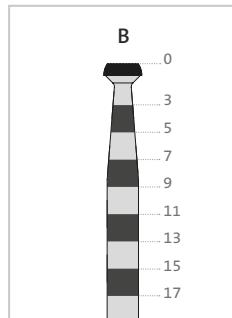
Set of 5 sequential inserts for implant site preparation up to Ø 3.5 mm



## → EQUIPPED WITH:

- 1 insert PD0118B
- 1 insert PD0223B
- 1 insert PD0328B
- 1 insert PD0432B
- 1 insert PD0535B
- 1 insert tray

odd depth marks  
from 3 mm.



# PD0118A – PD0118B

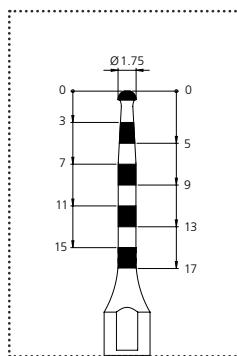
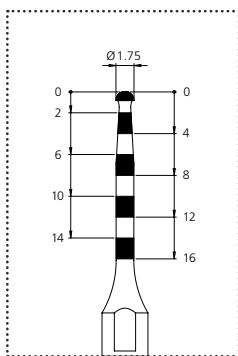
1.8 mm initial implant site preparation inserts

→ CUTTING ACTION

bone perforation

→ CLINICAL APPLICATION

initial pilot osteotomy

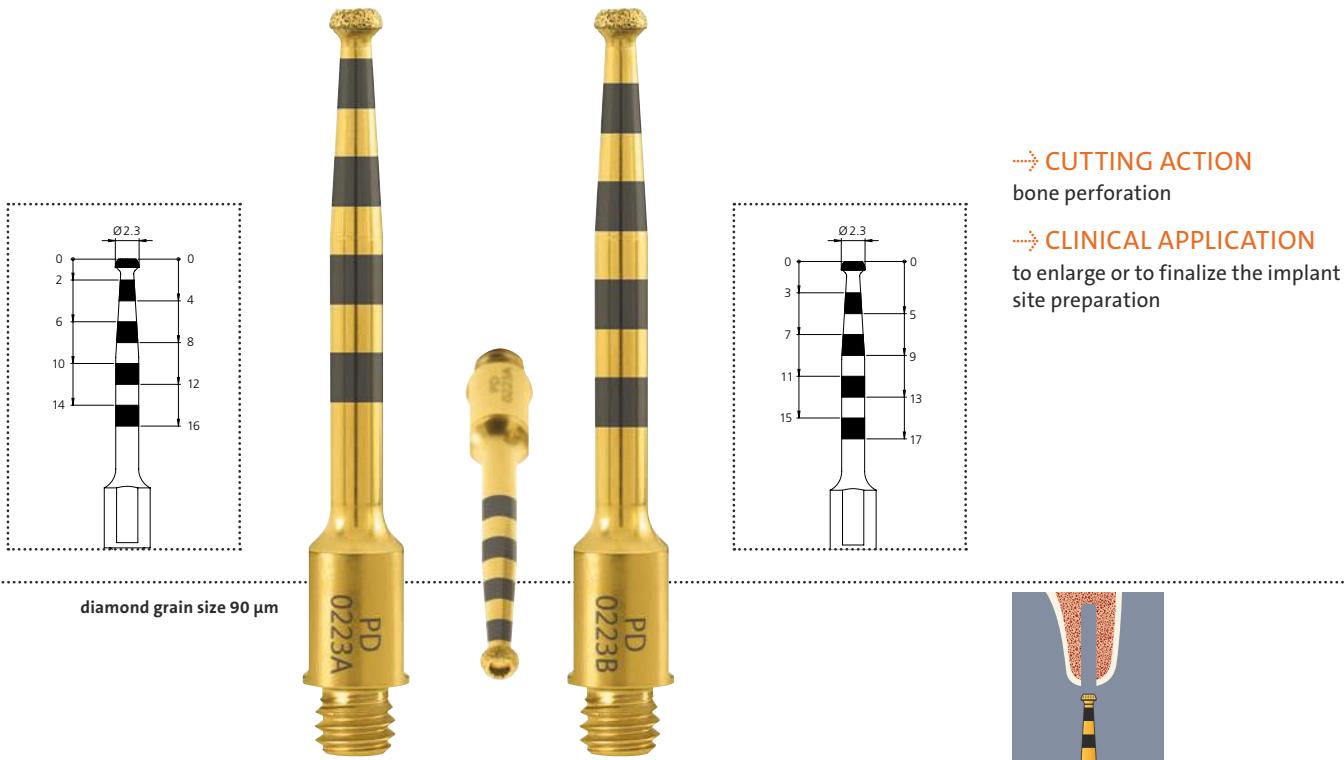


diamond grain size 90 µm



2.3 mm Ø implant site preparation inserts

↗ PD0223A – PD0223B



# PD0328A – PD0328B

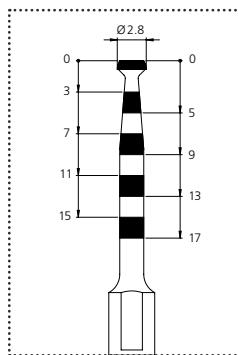
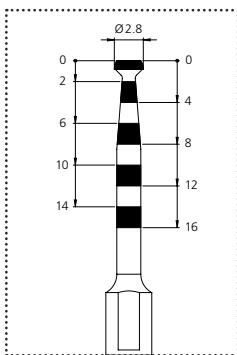
2.8 mm implant site preparation inserts

## → CUTTING ACTION

bone perforation

## → CLINICAL APPLICATION

to enlarge or to finalize the implant site preparation

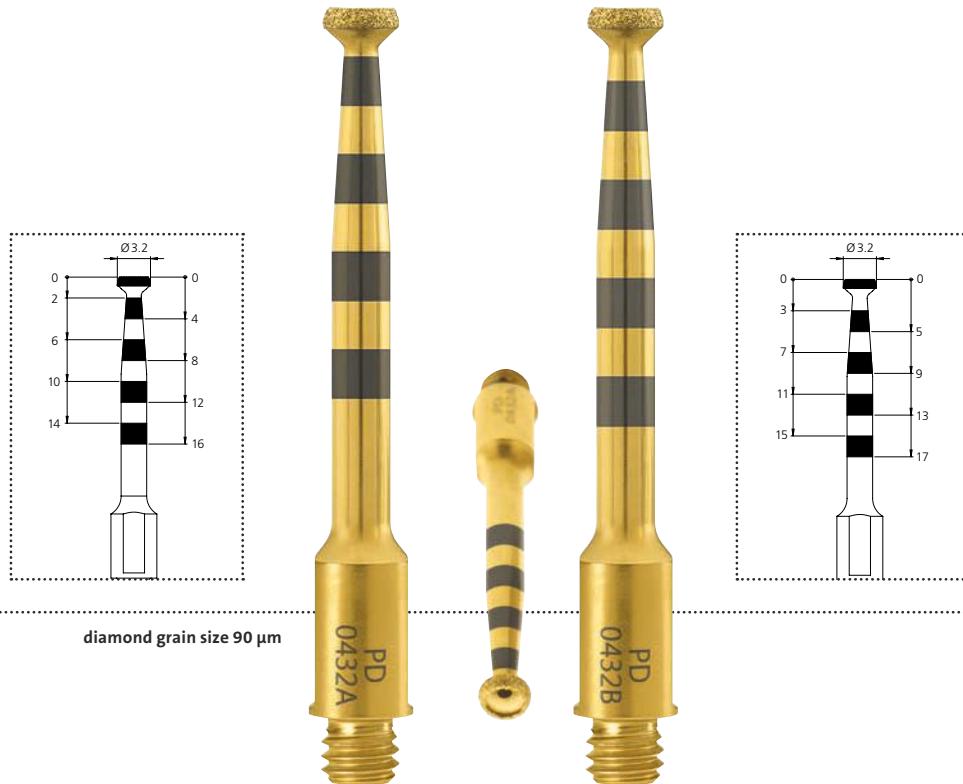


diamond grain size 90 µm



3.2 mm Ø implant site preparation inserts

PD0432A – PD0432B



→ CUTTING ACTION  
bone perforation

→ CLINICAL APPLICATION  
to enlarge or to finalize the implant site preparation



# PD0535A – PD0535B

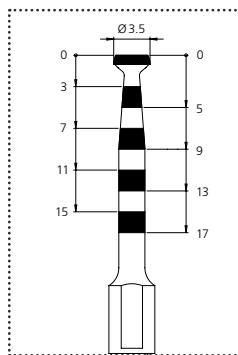
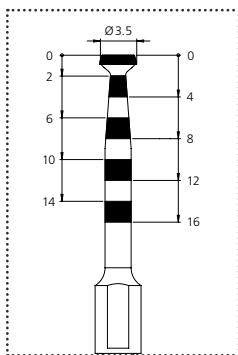
3.5 mm implant site preparation inserts

## → CUTTING ACTION

bone perforation

## → CLINICAL APPLICATION

to enlarge or to finalize the implant site preparation



diamond grain size 90  $\mu\text{m}$





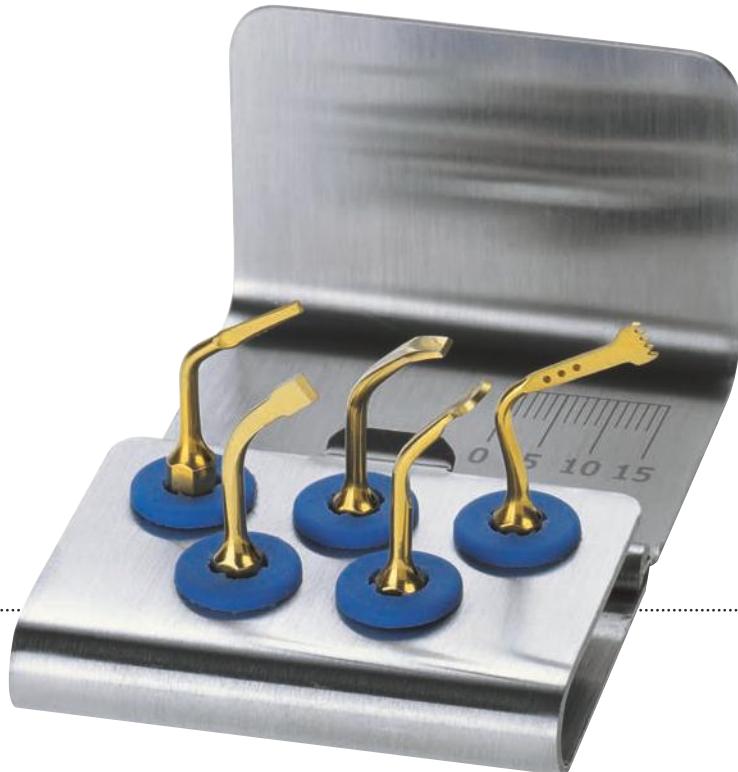
# → PIEZOSURGERY® SETS

→ PIEZOSURGERY® INSERT SETS

Mectron offers a range of PIEZOSURGERY® insert sets specifically designed to meet the unique needs of various clinical applications.

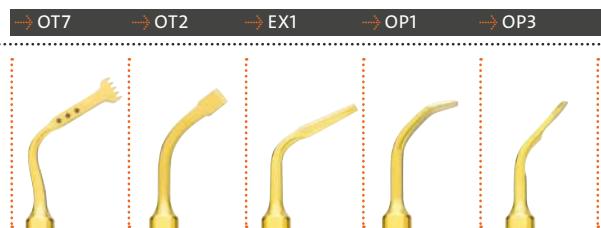


# → BASIC SET



## → EQUIPPED WITH:

- 1 insert OT7
- 1 insert OT2
- 1 insert EX1
- 1 insert OP1
- 1 insert OP3
- 1 insert tray



# → OSTEOTOMY SET

## → EQUIPPED WITH:

- 1 insert OT7
- 1 insert OT7S-4
- 1 insert OT7S-3
- 1 insert OT8R
- 1 insert OT8L
- 1 insert tray



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PIEZOSURGERY®

# → SINUS LIFT LATERAL SET\*



## → EQUIPPED WITH:

- 1 insert SLC
- 1 insert SLO-H
- 1 insert SLS
- 1 insert SLE1
- 1 insert SLE2
- 1 insert tray



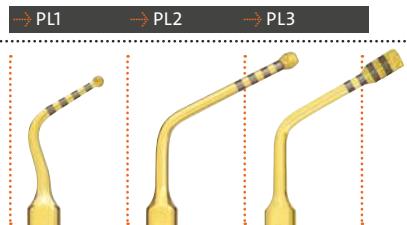
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\* developed in collaboration with Prof. Tomaso Vercellotti and Dr. Philippe Russe

# → PIEZO LIFT SET\*

→ EQUIPPED WITH:

- 1 insert PL1
- 1 insert PL2
- 1 insert PL3
- 1 insert tray



# → MANUAL PIEZO LIFT SET\*



## → EQUIPPED WITH:

- 1 insert PL0419
- 1 insert PL0527
- 1 insert PL0631
- 1 insert PL0719
- 1 insert tray



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\* developed in collaboration with Dr. Edgard El Chaar

# → SINUS LIFT SET\*

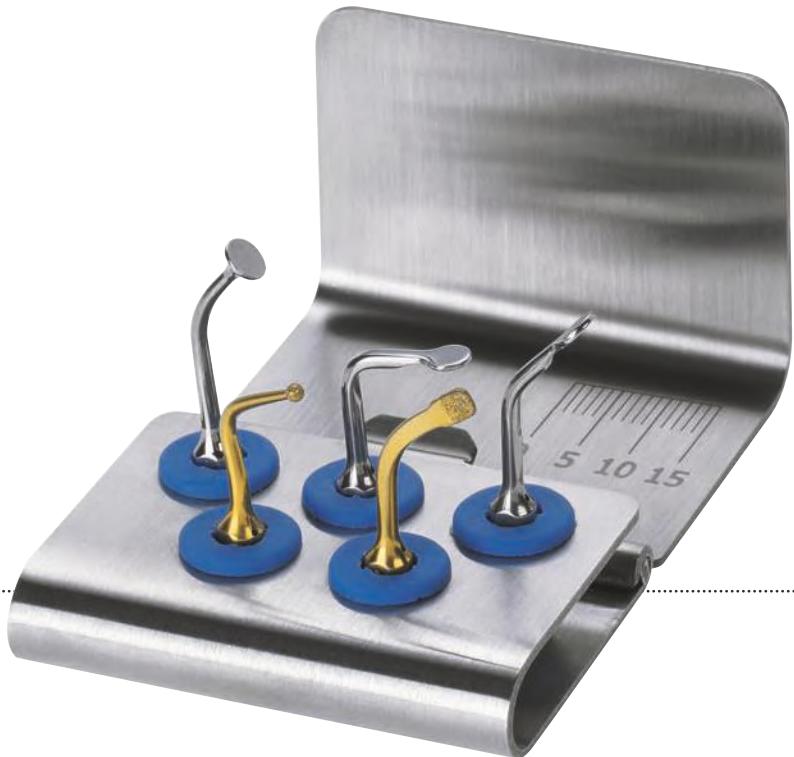
## → EQUIPPED WITH:

- 1 insert OT1
- 1 insert OT5
- 1 insert EL1
- 1 insert EL2
- 1 insert EL3
- 1 insert tray



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\* developed in collaboration with Prof. Tomaso Vercellotti



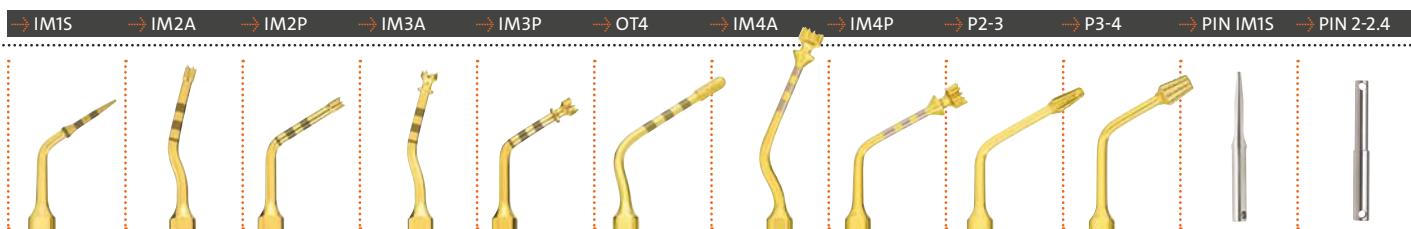
PIEZOSURGERY®

# → IMPLANT PREP PRO SET\*



## → EQUIPPED WITH:

- 1 insert IM1S
- 1 insert IM2A
- 1 insert IM2P
- 1 insert IM3A
- 1 insert IM3P
- 1 insert OT4
- 1 insert IM4A
- 1 insert IM4P
- 1 insert P2-3
- 1 insert P3-4
- 3 pins IM1S
- 3 pins 2-2.4
- 1 implant insert tray



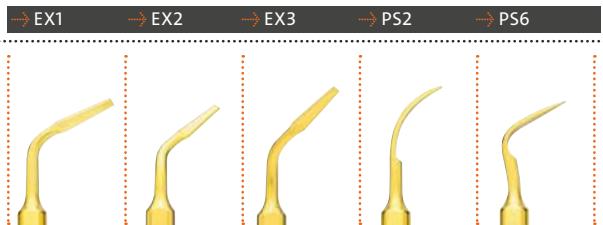
25

\* developed in collaboration with Prof. Tomaso Vercellotti

# → EXACTION SET\*

## → EQUIPPED WITH:

- 1 insert EX1
- 1 insert EX2
- 1 insert EX3
- 1 insert PS2
- 1 insert PS6
- 1 insert tray



# → THIRD MOLAR EXTRACTION SET\*



## → EQUIPPED WITH:

- 1 lever EXL1
- 1 lever EXL2
- 1 lever EXL3
- 1 insert EX1
- 1 insert SLO-H
- 1 insert tray



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\* developed in collaboration with Dr. Fabrizio Fontanella

# ↗ EXPLANTATION SET

→ EQUIPPED WITH:

- 1 insert EXP3-R
- 1 insert EXP3-L
- 1 insert EXP4-R
- 1 insert EXP4-L
- 1 insert tray





# RESECTIVE PERIO SET\*



## → EQUIPPED WITH:

- 1 insert OT13
- 1 insert OT14
- 1 insert OP5A
- 1 insert OP8
- 1 insert OP9
- 1 insert tray



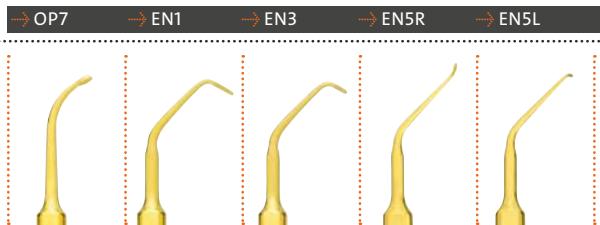
29

\* developed in collaboration with Prof. Leonardo Trombelli and the University of Ferrara, Italy

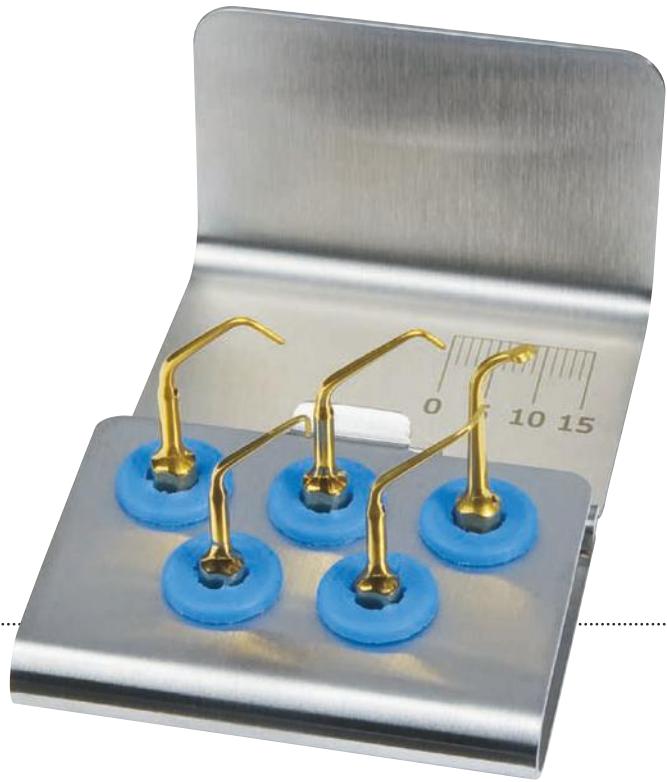
# → RETRO SURGICAL SET

## → EQUIPPED WITH:

- 1 insert OP7
- 1 insert EN1
- 1 insert EN3
- 1 insert EN5R
- 1 insert EN5L
- 1 insert tray



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# → INSERT BOX AND TRAY PIEZOSURGERY®



## → INSERT BOX

- box fully autoclavable
- perfect storage of all PIEZOSURGERY® inserts
- light, easy to use, compact and roomy

## → INSERT TRAY

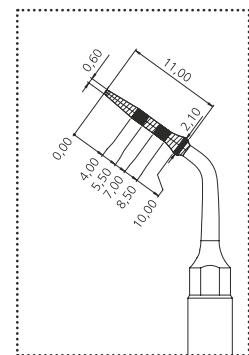
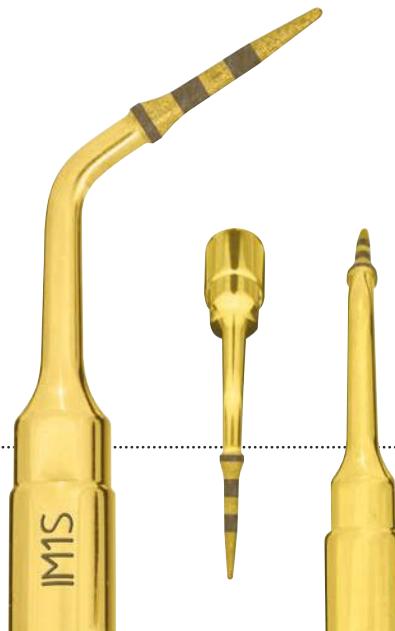
- stainless steel tray with depth markings
- ideal for storage
- tray fully autoclavable

→ CUTTING ACTION

bone perforation

→ CLINICAL APPLICATION

initial pilot osteotomy

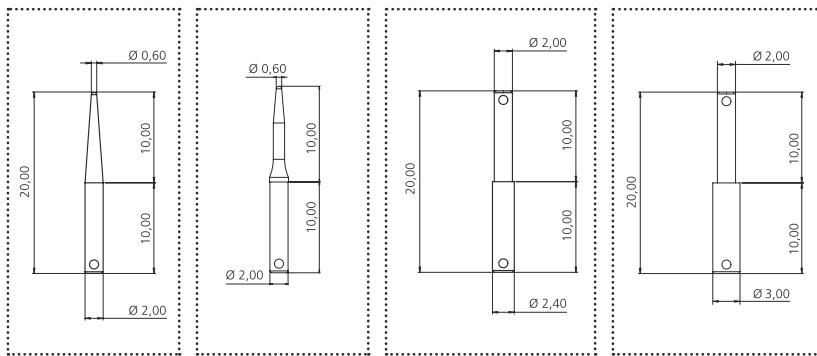


diamond grain size 30 µm



# ↗ PINS IM1, IM1S, 2-2.4, 2-3

alignment pins



## ↗ DESCRIPTION

alignment pins, dedicated to  
IM1S, IM2 ( $\varnothing$  2), IM3 ( $\varnothing$  3), OT4 ( $\varnothing$  2.4), IM1 SP

## ↗ CLINICAL APPLICATION

to check preparation axis alignment



↗ PIN IM1

↗ PIN IM1S

↗ PIN 2-2.4

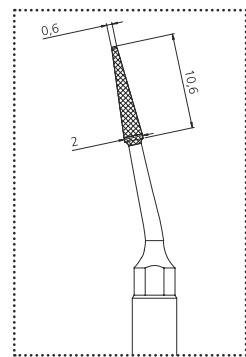
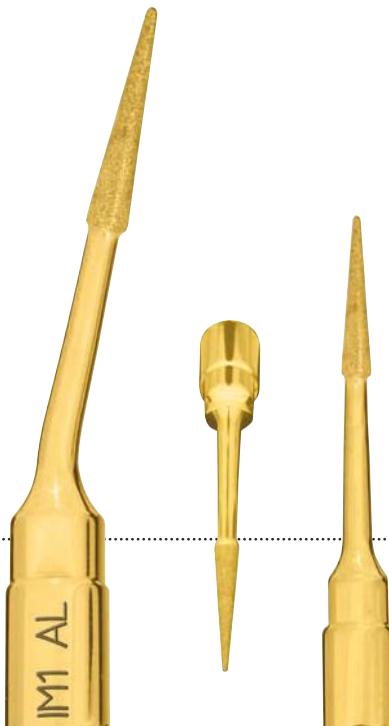
↗ PIN 2-3

## → CUTTING ACTION

bone perforation

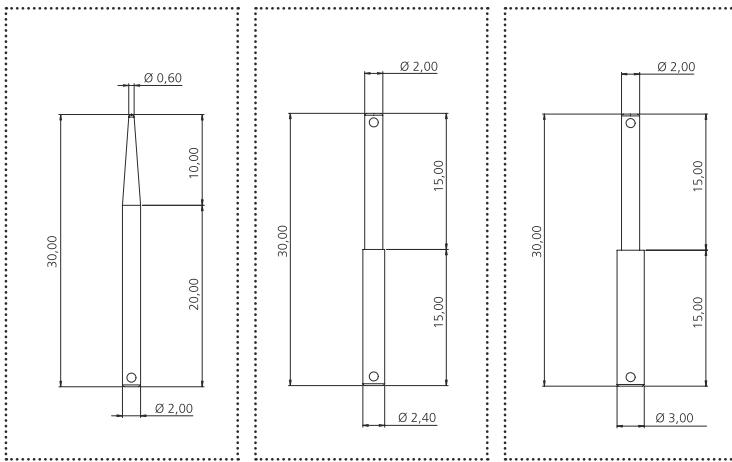
## → CLINICAL APPLICATION

initial pilot osteotomy in extraction sites



diamond grain size 30 µm

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



## → DESCRIPTION

30 mm alignment pins, for extraction sites dedicated to IM1 AL, IM2A ( $\varnothing$  2), OT4 ( $\varnothing$  2.4), IM3A ( $\varnothing$  3)

## → CLINICAL APPLICATION

to check preparation axis alignment



→ PIN IM1 AL

→ PIN 2-2.4 AL

→ PIN 2-3 AL

# → IM2A – IM2A-15

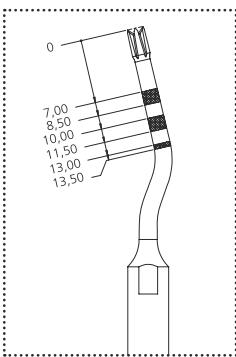
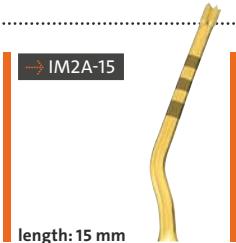
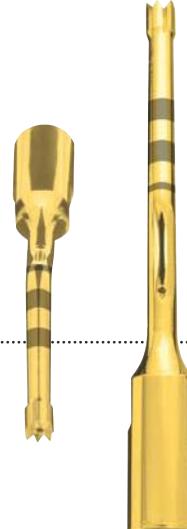
2 mm Ø implant site preparation inserts

→ CUTTING ACTION

bone perforation

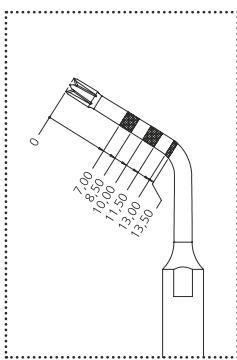
→ CLINICAL APPLICATION

pilot osteotomy in anterior region



## 2 mm Ø implant site preparation inserts

→ IM2P – IM2P-15



→ CUTTING ACTION

bone perforation

→ CLINICAL APPLICATION

pilot osteotomy in posterior region



# IM2.8A

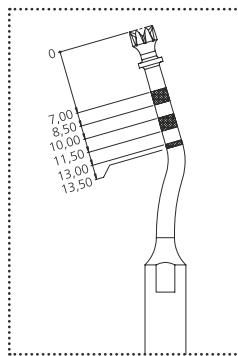
2.8 mm Ø implant site preparation insert

## → CUTTING ACTION

bone perforation

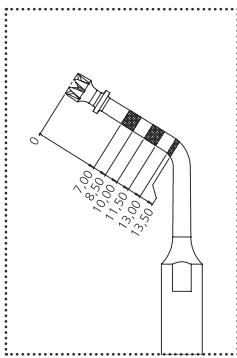
## → CLINICAL APPLICATION

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



## 2.8 mm Ø implant site preparation insert

↗ IM2.8P



### ↗ CUTTING ACTION

bone perforation

### ↗ CLINICAL APPLICATION

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



# IM3A – IM3A-15

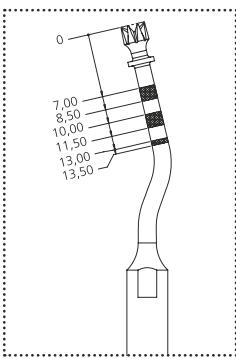
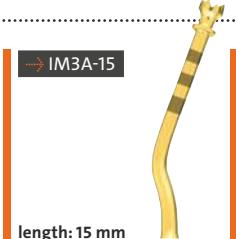
3 mm Ø implant site preparation inserts

## → CUTTING ACTION

bone perforation

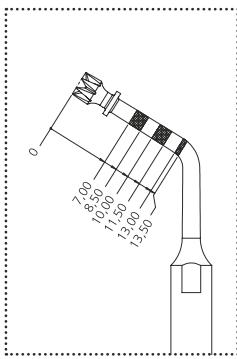
## → CLINICAL APPLICATION

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



## 3 mm Ø implant site preparation inserts

# IM3P – IM3P-15



### ⇨ CUTTING ACTION

bone perforation

### ⇨ CLINICAL APPLICATION

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



# IM3.4A

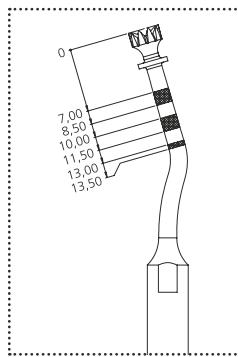
3.4 mm Ø implant site preparation insert

→ CUTTING ACTION

bone perforation

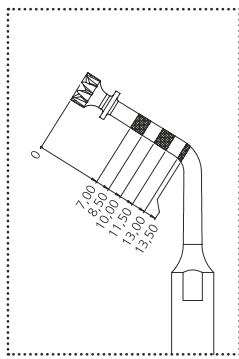
→ CLINICAL APPLICATION

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



## 3.4 mm Ø implant site preparation insert

→ IM3.4P



### → CUTTING ACTION

bone perforation

### → CLINICAL APPLICATION

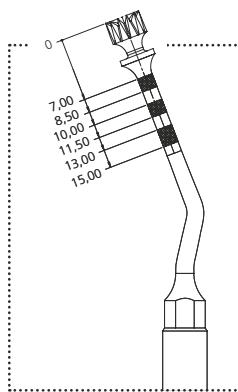
to enlarge or to finalize the implant site preparation; insert with double irrigation to avoid overheating

 CUTTING ACTION

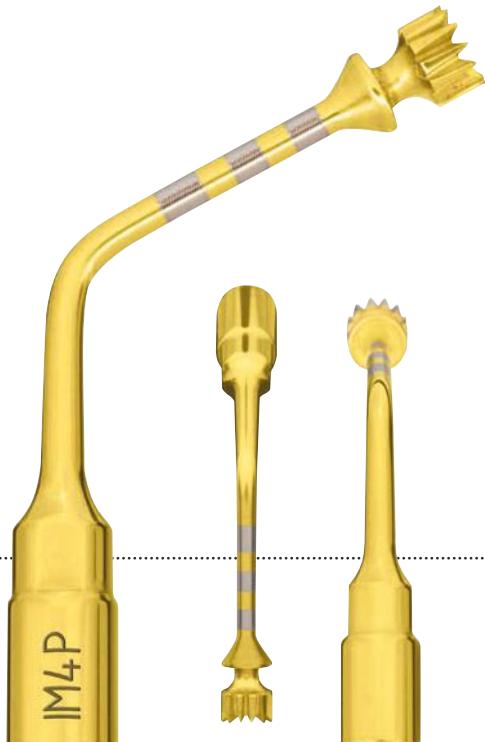
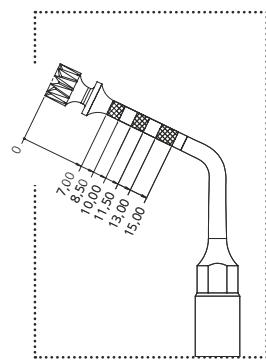
bone perforation

 CLINICAL APPLICATION

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



## 4 mm Ø implant site preparation insert



### ⇨ CUTTING ACTION

bone perforation

### ⇨ CLINICAL APPLICATION

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

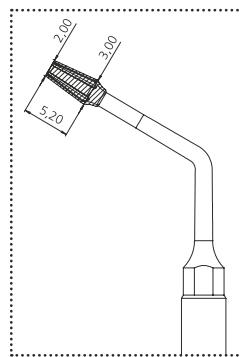
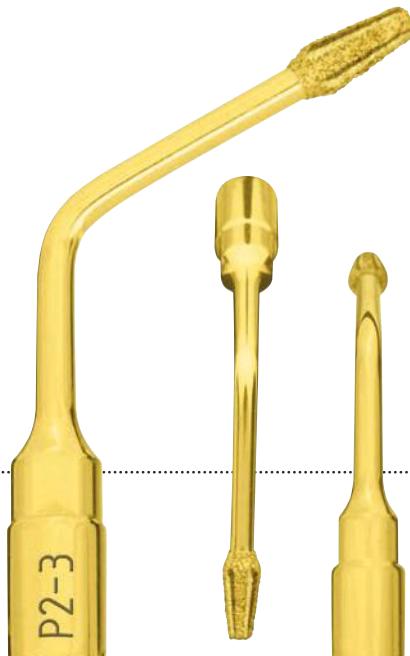


→ CUTTING ACTION

micrometric osteotomy

→ CLINICAL APPLICATION

to optimize concentricity of  
implant site preparation  
between Ø 2 and Ø 3 mm

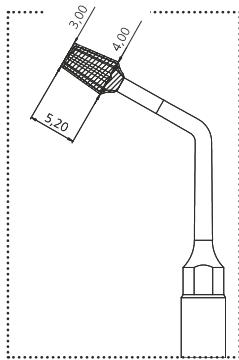


diamond grain size 150 µm



## pilot implant site preparation insert

↗ P3-4



diamond grain size 150 µm



### ↗ CUTTING ACTION

micrometric osteotomy

### ↗ CLINICAL APPLICATION

to optimize concentricity of  
implant site preparation  
between Ø 3 and Ø 4 mm



# → OT1 – OT1A

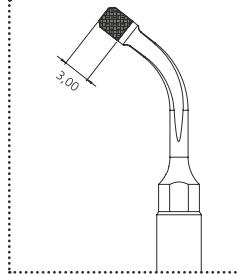
sinus bony window osteotomy inserts

## → CUTTING ACTION

micrometric osteotomy (about 1 mm)

## → CLINICAL APPLICATION

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





↗ CUTTING ACTION

osteotomy

↗ CLINICAL APPLICATION

osteotome of great precision  
in anatomically thin structures  
(for example, ridge expansion,  
interdental corticotomies)

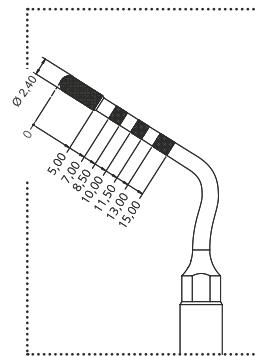


→ CUTTING ACTION

micrometric osteotomy (about 1 mm)

→ CLINICAL APPLICATION

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



diamond grain size 151 µm



## osteoplasty and osteotomy inserts

# → OT5 – OT5A – OT5B



Ø 1.7 – diamond grain size 91 µm



### → CUTTING ACTION

micrometric osteotomy or osteoplasty

### → CLINICAL APPLICATION

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

→ CUTTING ACTION

high effectiveness osteotomy

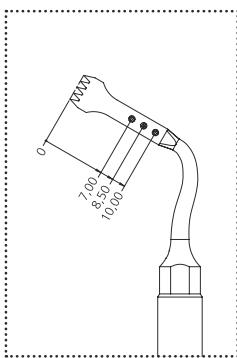
→ CLINICAL APPLICATION

osteotomy of large bone sections  
during maxillofacial surgery



principal micro-saws 0.55 mm

→ OT7 – OT7A



→ CUTTING ACTION

high effectiveness osteotomy

→ CLINICAL APPLICATION

all the osteotomy technique  
in maxilla and mandible

- ridge expansion
- corticotomy technique
- bone block grafting



# ↗ OT7S-4

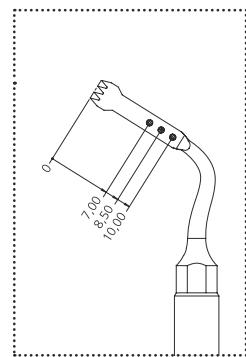
special micro-saw 0.35 mm (4 teeth)

## → CUTTING ACTION

high effectiveness and precision  
osteotomy

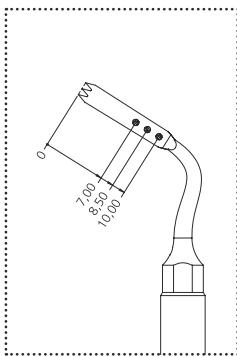
## → CLINICAL APPLICATION

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



special micro-saw 0.35 mm (3 teeth)

↗ OT7S-3



↗ CUTTING ACTION

high precision osteotomy

↗ CLINICAL APPLICATION

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



→ CUTTING ACTION

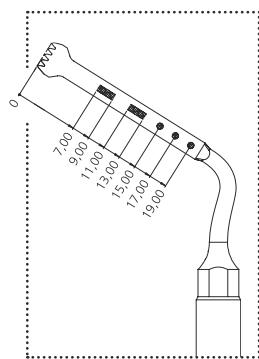
high effectiveness osteotomy

→ CLINICAL APPLICATION

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

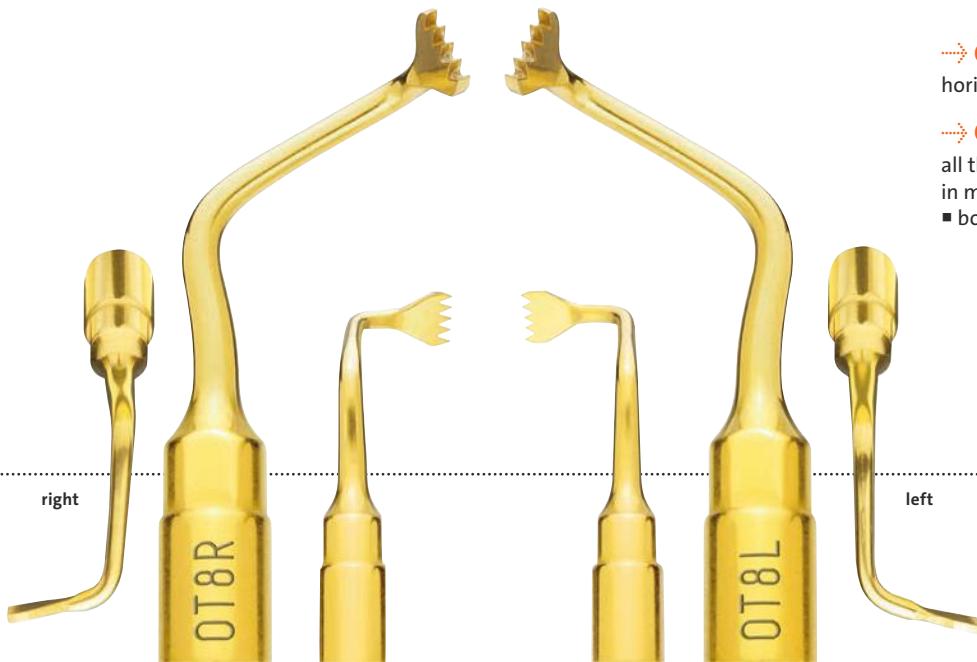


tight up this insert only  
with torque wrench K8



angled micro-saws 0.6 mm

→ OT8R – OT8L



→ CUTTING ACTION

horizontal osteotomy

→ CLINICAL APPLICATION

all the osteotomy technique  
in maxilla and mandible

- bone block grafting

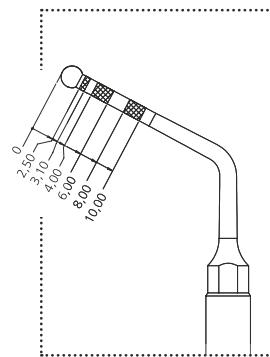


→ CUTTING ACTION

micrometric osteotomy or osteoplasty

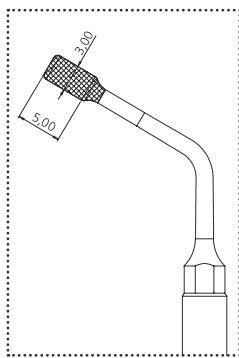
→ CLINICAL APPLICATION

to finalize the osteotomy or osteoplasty  
near delicate anatomic structures;  
insert with double irrigation to avoid  
overheating



## osteoplasty and osteotomy insert

OT11



Ø 3.0 – diamond grain size 151 µm

### ⇒ CUTTING ACTION

micrometric osteotomy or osteoplasty

### ⇒ CLINICAL APPLICATION

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

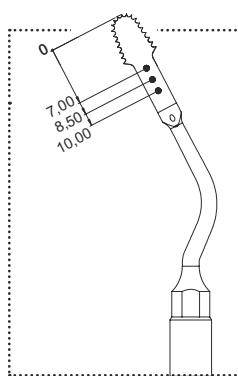


→ CUTTING ACTION

high effectiveness and precision  
osteotomy

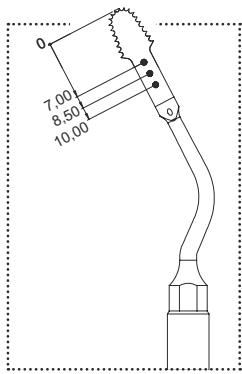
→ CLINICAL APPLICATION

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



circular micro-saw 0.25 mm

↗ OT12S



↗ CUTTING ACTION

high effectiveness and precision  
osteotomy

↗ CLINICAL APPLICATION

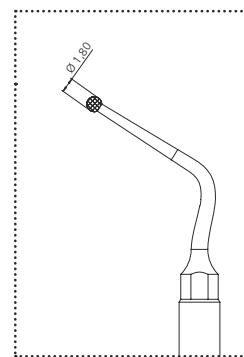
dedicated to the osteotomy  
techniques where the standard  
piezoelectric bone saws may have  
a difficult surgical approach

## → CUTTING ACTION

micrometric osteotomy or osteoplasty

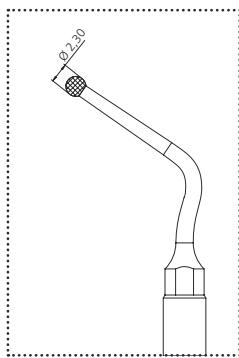
## → CLINICAL APPLICATION

non-traumatic bone defect preparation  
in resective periodontal surgery



Ø 1.8 – diamond grain size 150 µm





Ø 2.3 – diamond grain size 150 µm



→ CUTTING ACTION

micrometric osteotomy or osteoplasty

→ CLINICAL APPLICATION

non-traumatic bone defect preparation  
in resective periodontal surgery

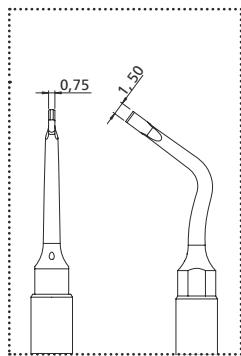


## → CUTTING ACTION

high precision osteotomy

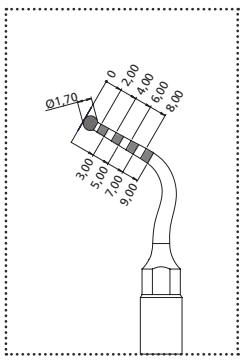
## → CLINICAL APPLICATION

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



## osteoplasty and osteotomy insert

→ PL1

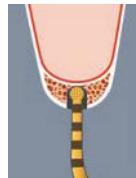


### → CUTTING ACTION

micrometric osteotomy or osteoplasty

### → CLINICAL APPLICATION

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

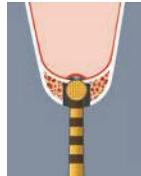
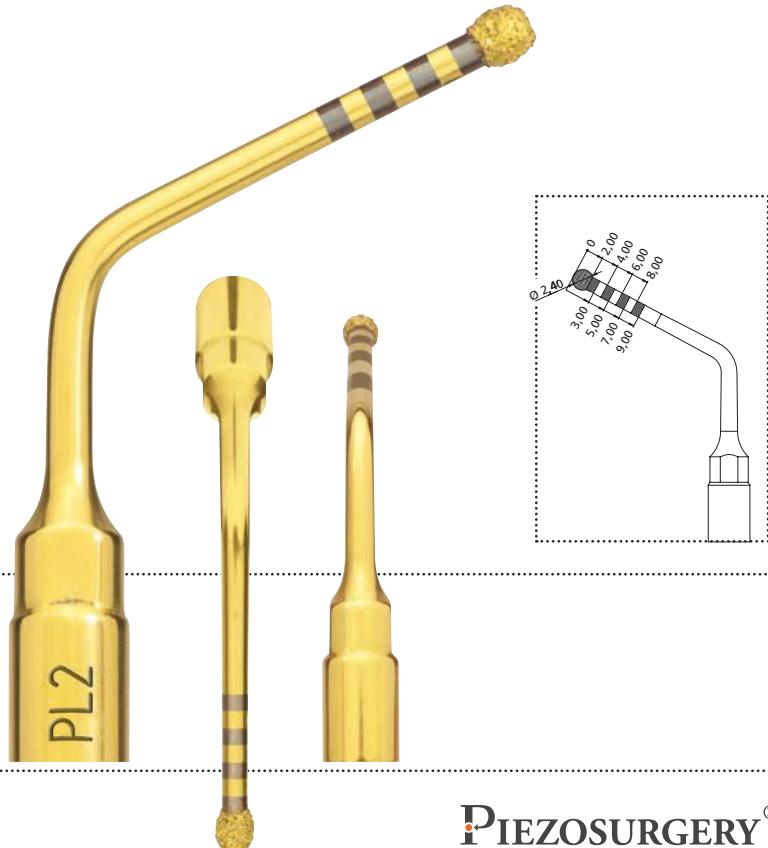


## → CUTTING ACTION

micrometric osteotomy or osteoplasty

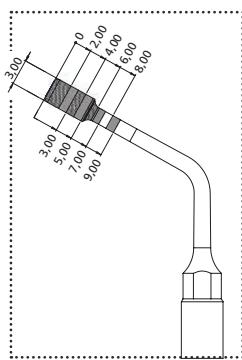
## → CLINICAL APPLICATION

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



## osteoplasty and osteotomy insert

→ PL3

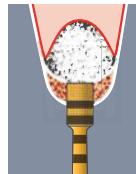


### → CUTTING ACTION

micrometric osteotomy or osteoplasty

### → CLINICAL APPLICATION

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

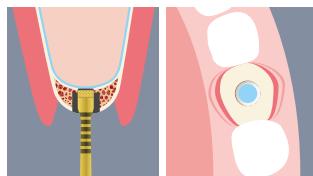
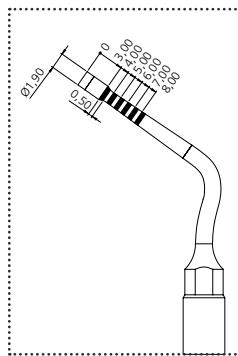


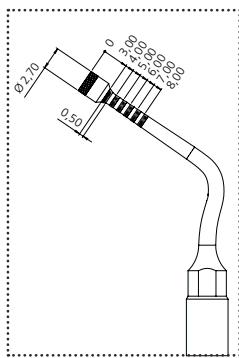
## → CUTTING ACTION

micrometric osteotomy or osteoplasty

## → CLINICAL APPLICATION

sinus floor removal and membrane  
detachment during Manual Piezo Lift  
technique ( $\varnothing = 1.9$  mm)



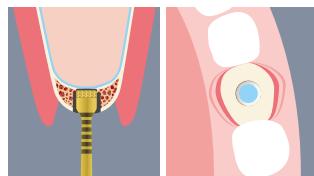


↗ CUTTING ACTION

micrometric osteotomy or osteoplasty

↗ CLINICAL APPLICATION

sinus floor removal and membrane  
detachment during Manual Piezo Lift  
technique ( $\varnothing = 2.7$  mm)

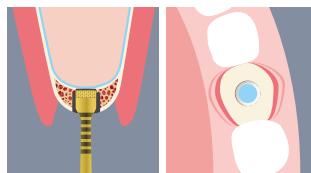
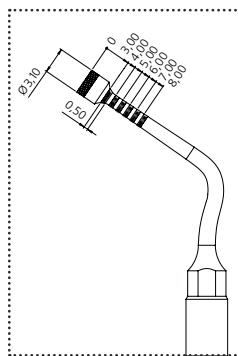
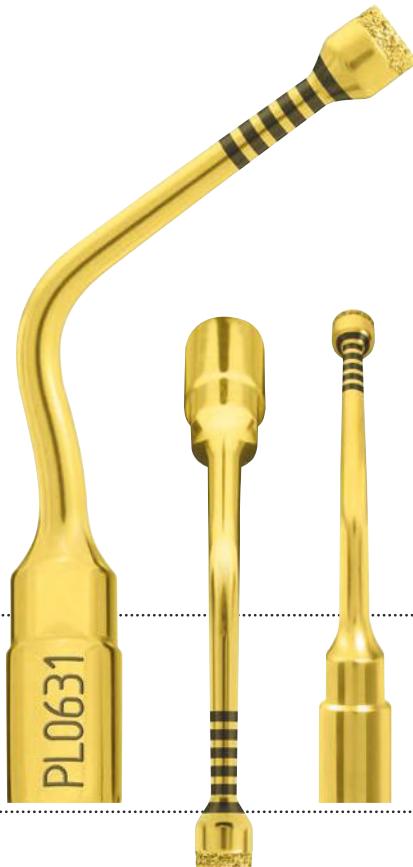


## → CUTTING ACTION

micrometric osteotomy or osteoplasty

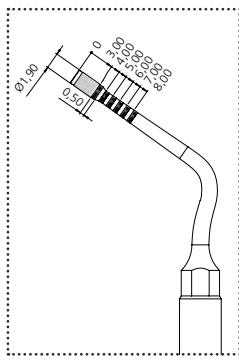
## → CLINICAL APPLICATION

sinus floor removal and membrane detachment during Manual Piezo Lift technique ( $\varnothing = 3.1$  mm)



**osteoplasty and osteotomy insert**

# → PL0719

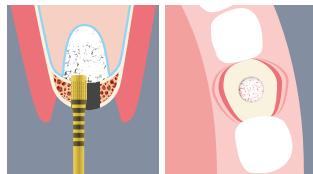


## → CUTTING ACTION

micrometric osteotomy or osteoplasty

## → CLINICAL APPLICATION

removal of the safety bone ring during Manual Piezo Lift technique ( $\emptyset = 1.9$  mm)



→ CUTTING ACTION

high efficiency bone osteoplasty

→ CLINICAL APPLICATION

bone remodelling and harvesting  
of bone chips



back action scalpel

↗ OP2



↗ CUTTING ACTION

osteoplasty

↗ CLINICAL APPLICATION

bone osteotomy, remodelling and  
removal of inflammatory tissue

# ↗ OP3 – OP3A

principal osteoplasty inserts

## → CUTTING ACTION

universal osteoplasty

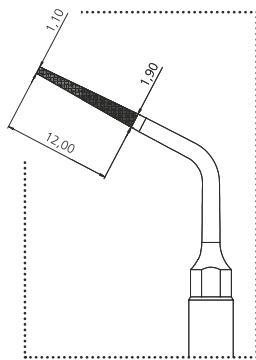
## → CLINICAL APPLICATION

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



## crown lengthening file

↗ OP4



diamond grain size 126 µm



→ CUTTING ACTION  
micro-osteoplasty

→ CLINICAL APPLICATION  
interproximal osteoplasty  
and root planing



# → OP5 – OP5A

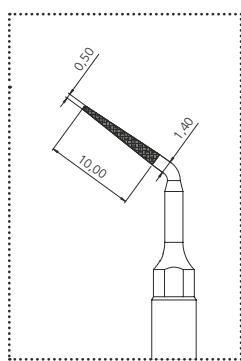
root debridement inserts

## → CUTTING ACTION

micro-osteoplasty

## → CLINICAL APPLICATION

root debridement and root planing  
during resective and regenerative  
periodontal surgery

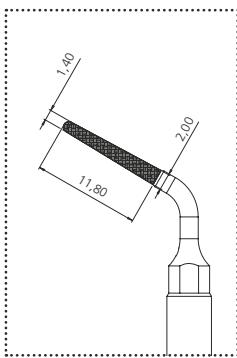


diamond grain size 30 µm



## micro-root-preparation

OP6



diamond grain size 126 µm



### ⇨ CUTTING ACTION

micro-root preparation

### ⇨ CLINICAL APPLICATION

root preparation in periodontal surgery



→ CUTTING ACTION

micro-osteoplasty

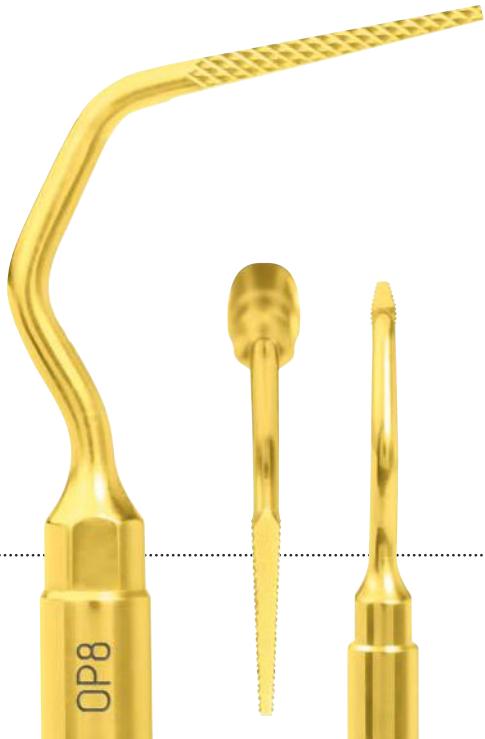
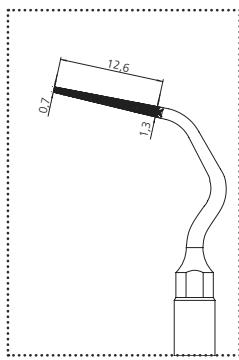
→ CLINICAL APPLICATION

peri-apical maxillary bone  
osteotomy access, inflammatory  
tissue removal



## crown lengthening file / perio file

OP8\*



### → CUTTING ACTION

micro-osteoplasty

### → CLINICAL APPLICATION

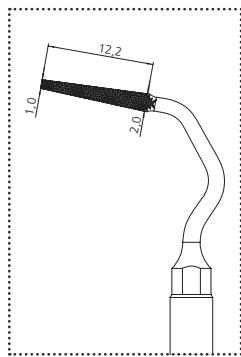
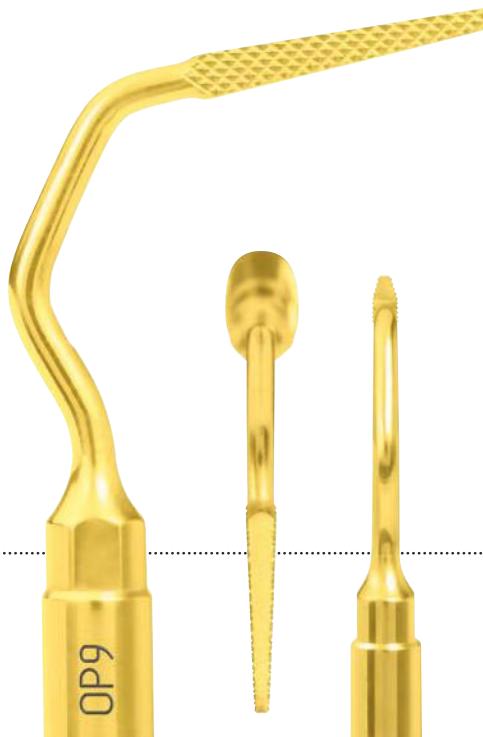
Interproximal osteoplasty without  
damaging adjacent root surfaces



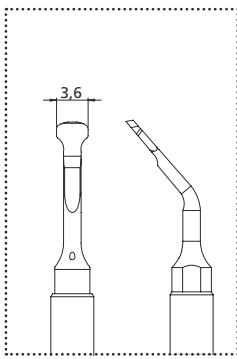
## → CUTTING ACTION

micro-osteoplasty

## → CLINICAL APPLICATION

Interproximal osteoplasty without  
damaging adjacent root surfaces

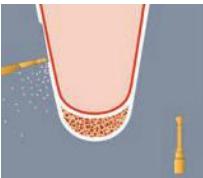
## osteoplasty insert



## ➡ CUTTING ACTION

universal osteoplasty

## ➡ CLINICAL APPLICATION

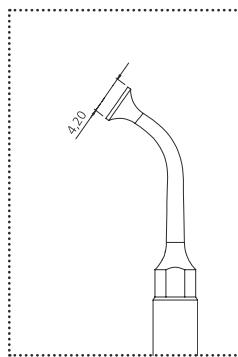
sinus vestibular wall consumption to  
gain the membrane access; bone chips  
harvesting, inflammatory tissue removal

→ CUTTING ACTION

schneiderian membrane  
separation from bony walls

→ CLINICAL APPLICATION

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



sinus membrane separator angled at 100°

→ EL2



→ CUTTING ACTION

non-cutting elevator of the  
sinus membrane

→ CLINICAL APPLICATION

separation of the sinus membrane  
in internal zones



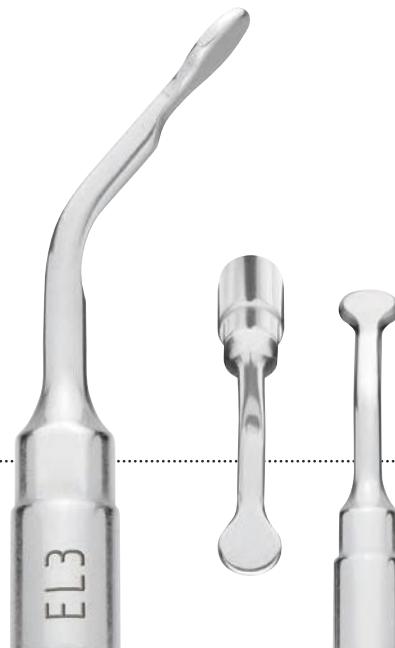
sinus membrane separator angled at 140°

→ CUTTING ACTION

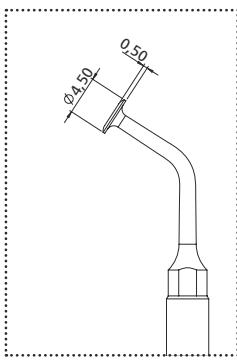
non-cutting elevator of the  
sinus membrane

→ CLINICAL APPLICATION

separation of the sinus membrane  
in internal zones



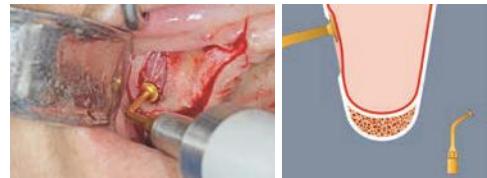
## sinus membrane separator



## ➡ CUTTING ACTION

sinus membrane separator

## ➡ CLINICAL APPLICATION

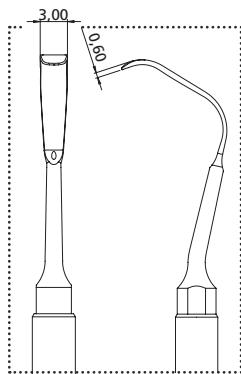
sinus membrane separation from  
the bony window margins

→ CUTTING ACTION

elevator to cut Sharpey's fibers  
from the endosteum

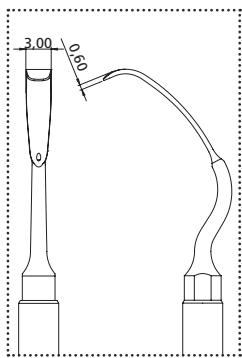
→ CLINICAL APPLICATION

sinus membrane elevation  
from the sinus floor



## sinus membrane elevator

↗ SLE2

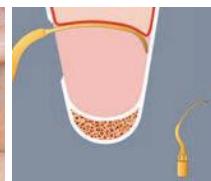


### → CUTTING ACTION

elevator to cut Sharpey's fibers  
from the endosteum

### → CLINICAL APPLICATION

sinus membrane elevation  
from the palatal wall

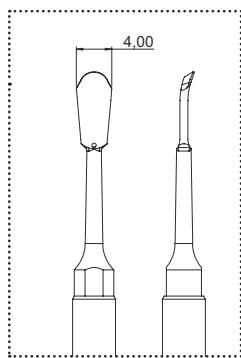


## → CUTTING ACTION

periosteum elevator

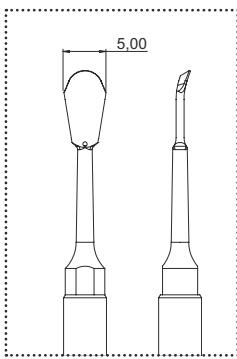
## → CLINICAL APPLICATION

subperiostal preparation



piezoelectric raspatory, 5 mm width

PR2



⇨ CUTTING ACTION

periosteum elevator

⇨ CLINICAL APPLICATION

subperiostal preparation

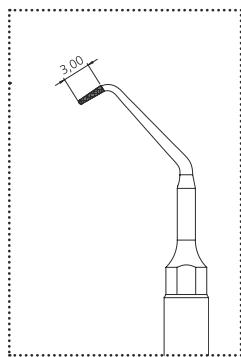


→ CUTTING ACTION

efficient canal cleaning

→ CLINICAL APPLICATION

apical root debridement



diamond grain size 30 µm

smooth endo apical debrider 3 mm

→ EN2



→ CUTTING ACTION

gentle canal cleaning

→ CLINICAL APPLICATION

gentle apical root debridement

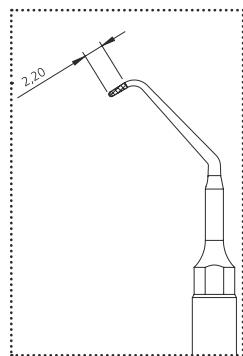


## → CUTTING ACTION

efficient canal cleaning

## → CLINICAL APPLICATION

apical root debridement



diamond grain size 30 µm

smooth endo apical debrider 2.2 mm

→ EN4



→ CUTTING ACTION

gentle canal cleaning

→ CLINICAL APPLICATION

gentle apical root debridement

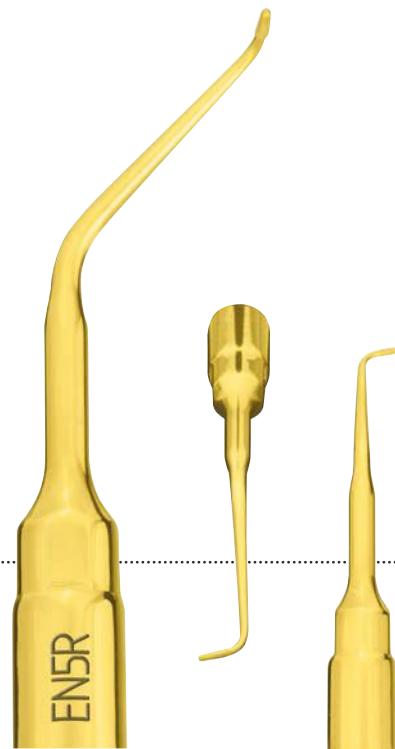
right angled, diamond-coated endo apical debrider 2.2 mm

## → CUTTING ACTION

efficient canal cleaning

## → CLINICAL APPLICATION

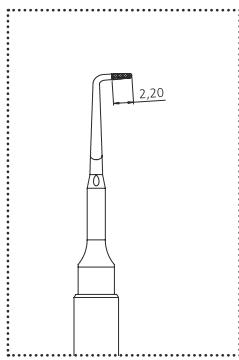
apical root debridement



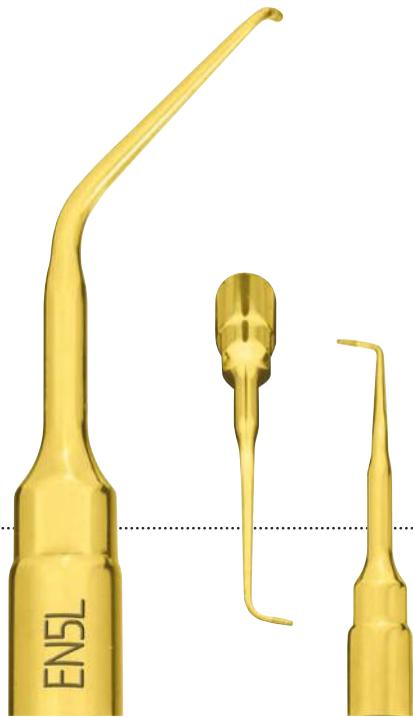
diamond grain size 30 µm

left angled, diamond-coated endo apical debrider 2.2 mm

EN5L



diamond grain size 30 µm



⇒ CUTTING ACTION

efficient canal cleaning

⇒ CLINICAL APPLICATION

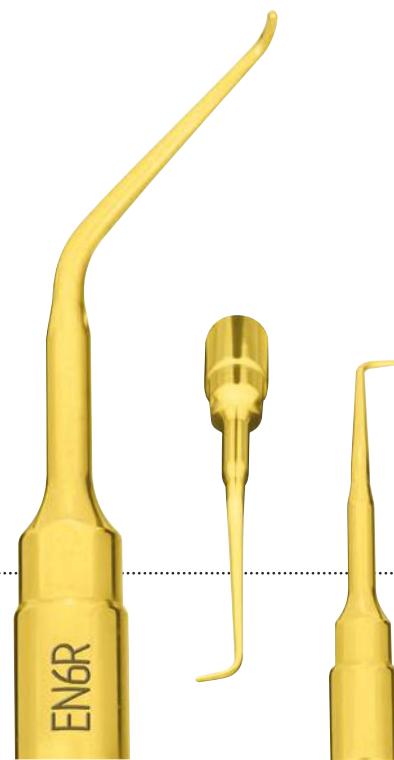
apical root debridement

→ CUTTING ACTION

efficient canal cleaning

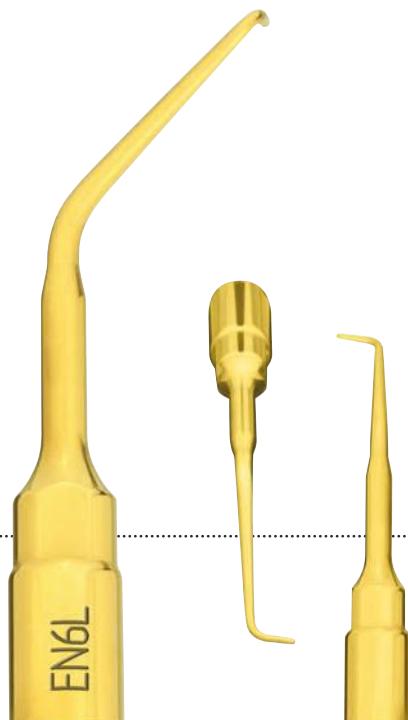
→ CLINICAL APPLICATION

apical root debridement



left angled, smooth endo apical debrider 2.2 mm

EN6L



→ CUTTING ACTION

efficient canal cleaning

→ CLINICAL APPLICATION

apical root debridement

→ CUTTING ACTION

delicate osteotomy

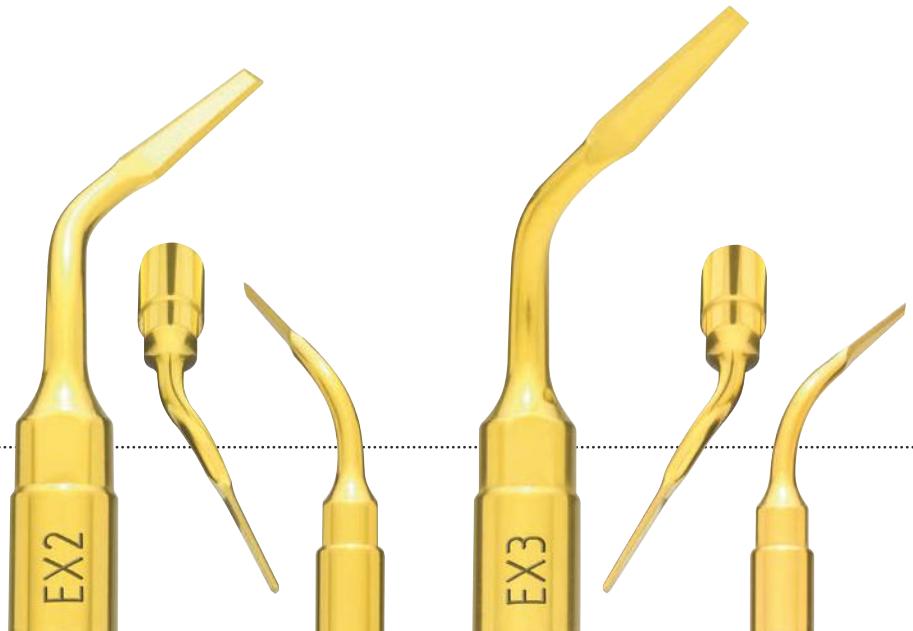
→ CLINICAL APPLICATION

to cut off the ankylosis, root fraction  
techniques



angled extraction scalpels

→ EX2 – EX3



→ CUTTING ACTION

micrometric osteotomy

→ CLINICAL APPLICATION

analogue to EX1 in the posterior regions



# → PIEZOELECTRIC LEVERS

---

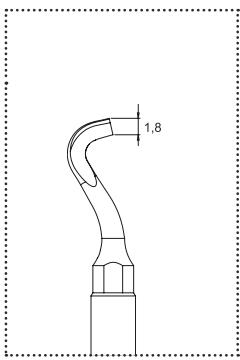
## → PIEZOELECTRIC INSTRUMENTS FOR THIRD MOLAR EXTRACTION

Mectron introduces the first piezoelectric lever to facilitate the luxation manoeuvre and sometimes even third molar root extraction, especially when ankylosed. This occurs when the manual force the operator exerts on the handpiece is added to the hammering action (typical of the Mectron PIEZOSURGERY®) which propagates from the lever into the deep periodontium. Additionally, proper use of the piezoelectric lever can significantly reduce operating time.



main lever for third molar extraction

EXL1



⇒ CUTTING ACTION

luxation and root extraction

⇒ CLINICAL APPLICATION

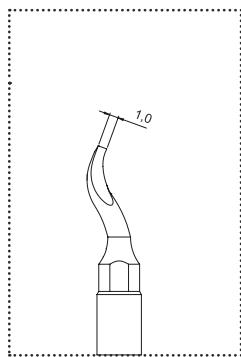
third molar extraction with piezoelectric technique



## → CUTTING ACTION

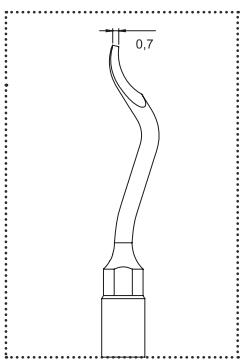
luxation and root extraction

## → CLINICAL APPLICATION

third molar extraction with piezoelectric  
technique

straight lever for alveolar debridement

EXL3



→ CUTTING ACTION

removal action of radicular fragments

→ CLINICAL APPLICATION

alveolar debridement from the extractive  
alveolus

# → EXP3-R – EXP3-L

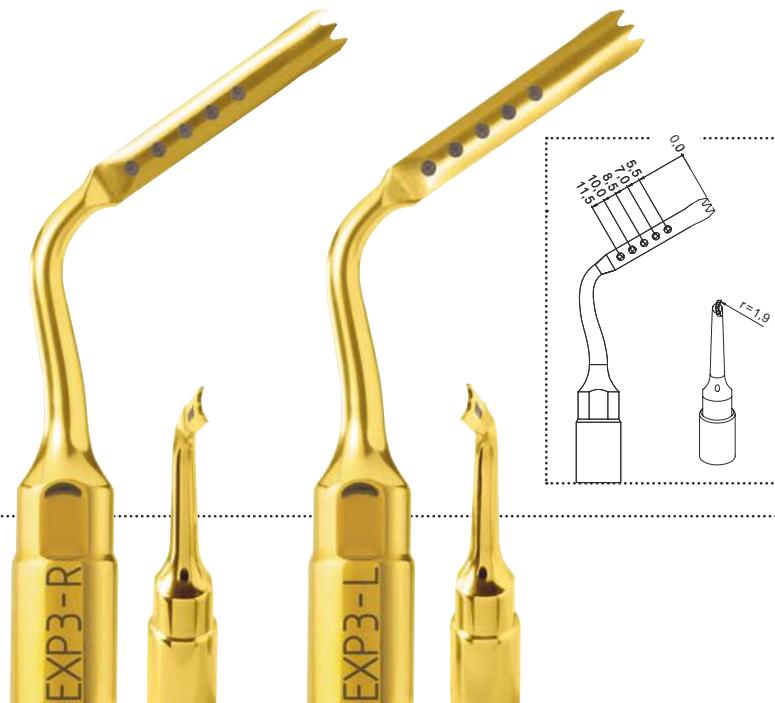
explantations

→ CUTTING ACTION

peri-implant osteotomy

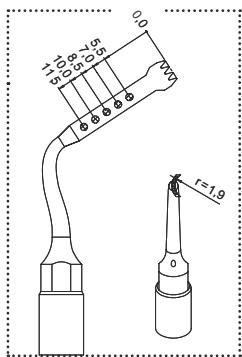
→ CLINICAL APPLICATION

explantations



explantations

## EXP4-R – EXP4-L



### ⇨ CUTTING ACTION

peri-implant osteotomy

### ⇨ CLINICAL APPLICATION

explantations

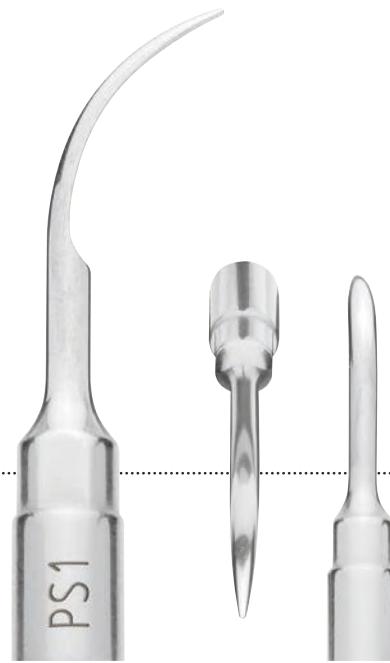


## → CUTTING ACTION

gentle scaling

## → CLINICAL APPLICATION

root scaling



## principal periodontal scaler

→ PS2



### → CUTTING ACTION

powerful scaling

### → CLINICAL APPLICATION

scaling and inflammatory tissue removal  
fractured root apex extraction



## → CUTTING ACTION

gentle scaling

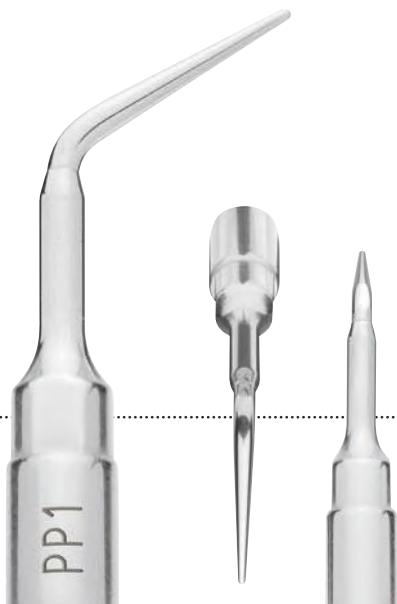
## → CLINICAL APPLICATION

root scaling



## principal root planing insert

PP1



### → CUTTING ACTION

root surface micro-smoothening

### → CLINICAL APPLICATION

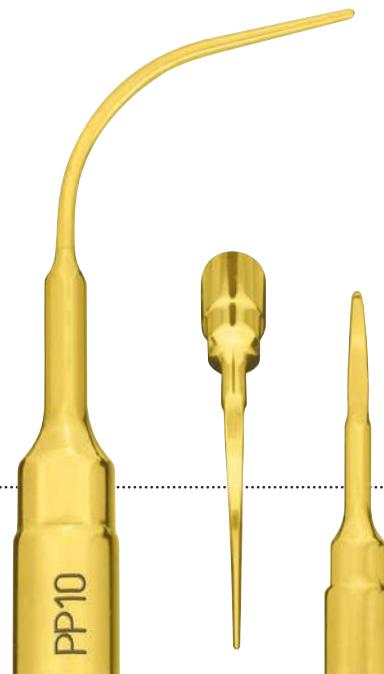
root planing

## → CUTTING ACTION

root surface micro-smoothening

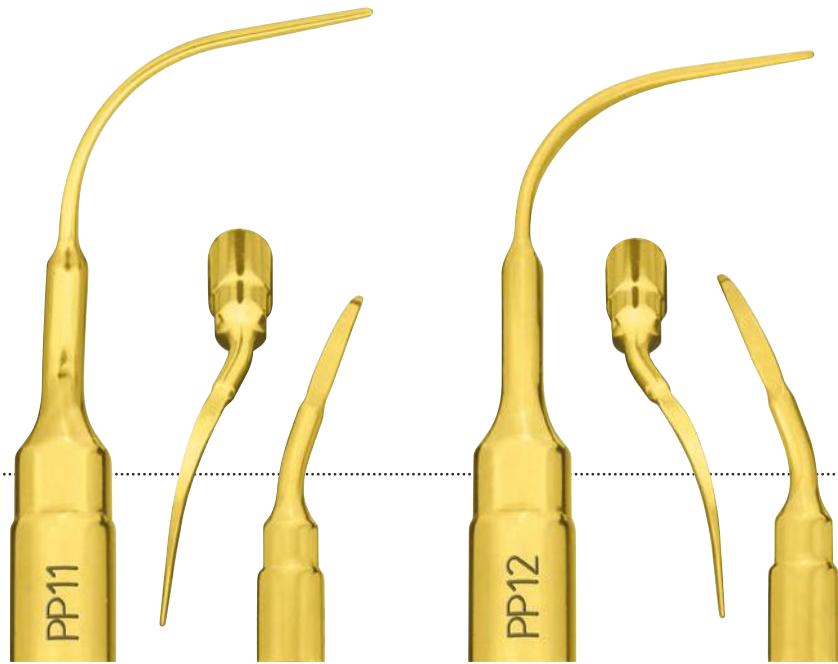
## → CLINICAL APPLICATION

gentle subgingival concrements removal



left and right angled, gentle perio anatomic inserts

→ PP11 – PP12



→ CUTTING ACTION

root surface micro-smoothening

→ CLINICAL APPLICATION

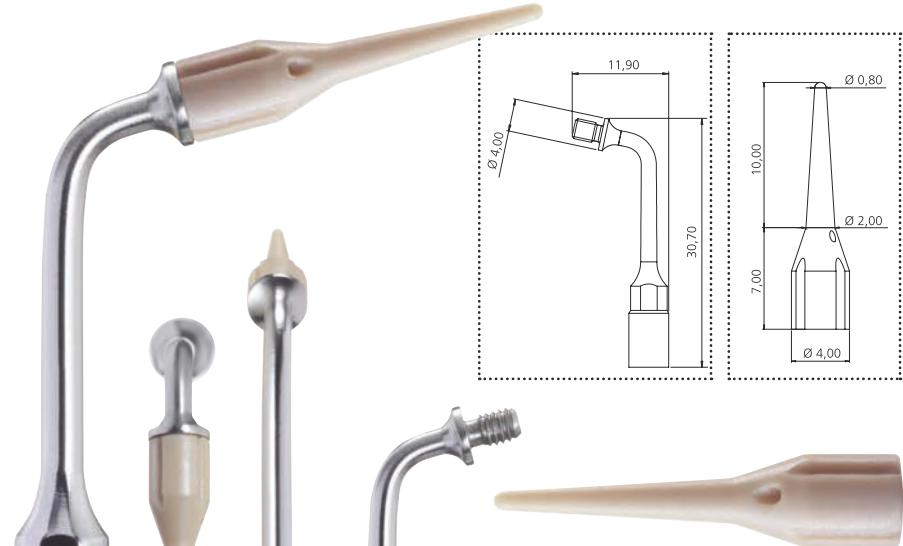
gentle subgingival concrements removal

## → CUTTING ACTION

gentle and safe cleaning action  
of the implant surface

## → CLINICAL APPLICATION

efficient and soft cleaning of  
implants and restorations



→ IMPLANT  
CLEANING SET P  
The set consists  
of a tip holder ICP  
and 5 tips IC1

## → ICP

tip holder  
ICP

## → IC1

implant cleaning tip IC1 is  
made of PEEK, can be easily  
tightened without special  
tools and is fully autoclavable

preparation and finishing of subgingival margins

# → CROWN PREP TIPS



→ DYNAMOMETRIC  
WRENCH K7



→ KEY AB1



→ TIPHOLDER  
DB2 WITH  
CROWN PREP TIPS



## → CUTTING ACTION

micro-smoothening

## → CLINICAL APPLICATION

ultrasonic finishing of the cervical margin



## → VERTICAL PREPARATION TECHNIQUE

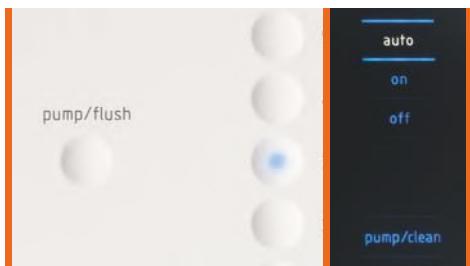
→ LENGTH 10 MM	→ DIAMOND COATING
diameter	D90      D60
1.2 mm	TF12D90      TF12D60
1.6 mm	TF16D90      TF16D60

## → CHAMFER TECHNIQUE

→ LENGTH 10 MM	→ DIAMOND COATING
diameter	D120      D90      D60
1.2 mm	TA12D90      TA12D60
1.4 mm	TA14D120      TA14D90      TA14D60
1.6 mm	TA16D120      TA16D90      TA16D60

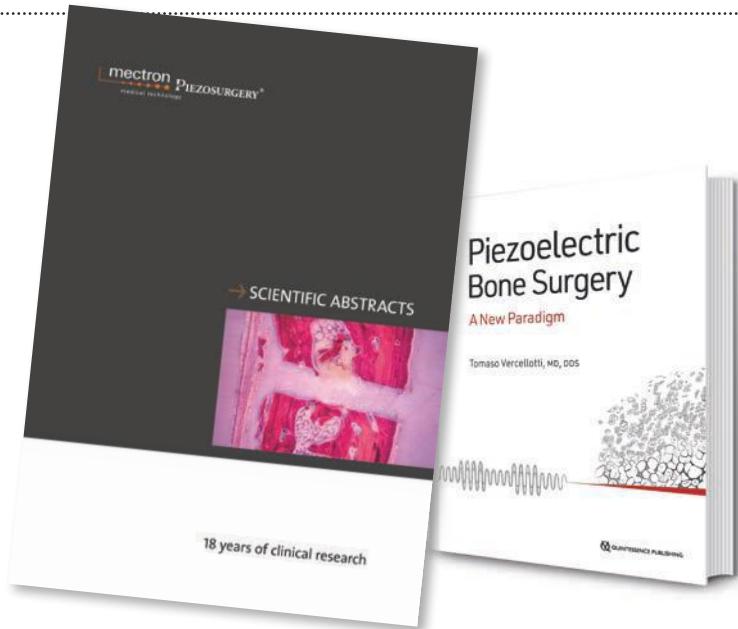


- enzymatic solution for efficient removal of organic residue
- specifically dedicated to the "flush" function of all PIEZOSURGERY® devices
- works perfectly in ultrasonic cleaning tanks
- easy handling thanks to the dosage measuring cap





↗ MECTRON –  
MORE THAN 25 YEARS  
OF SUCCESSFUL  
SCIENTIFIC RESEARCH



18 years of clinical research

↗ METHOD PIEZOSURGERY®: EVIDENCE-BASED

With over 25 years of successful clinical research, the original PIEZOSURGERY® method is the only one supported by more than 250 clinical and scientific studies. An updated list of publications can be found at [www.mectron.com](http://www.mectron.com). Scientific Abstracts are also available for download.

EXPERIENCE EDUCATION – MECTRON IS COMMITTED TO ENSURING YOU GET THE BEST KNOWLEDGE OF PIEZOSURGERY® METHOD.

PIEZOSURGERY® has caused a paradigm shift in osseous surgery and has become the new standard of care in oral and periodontal surgery. In addition to its revolutionary technology, its unique level of quality and its optimal ergonomic features, there is yet one more important factor to success with PIEZOSURGERY® technology: you.



→ [EDUCATION.MECTRON.COM](http://EDUCATION.MECTRON.COM)

We are happy to share with you our online education platform. It will allow you to attend free of charge our live and on-demand educational webinars and view our clinical video library. A fantastic possibility to take a deeper view on clinical opportunities helpful for your daily practice. Visit our mectron education platform and register to receive notifications about upcoming webinars.

Free of charge registration  
[education.mectron.com](http://education.mectron.com)

→ [WWW.MECTRON.COM/EDUCATION](http://WWW.MECTRON.COM/EDUCATION)

On [www.mectron.com](http://www.mectron.com) we offer you even more seminars: In the section courses and workshops you will find different seminars on PIEZOSURGERY® in English. Please contact your mectron partner for the courses in your local language – you will find the contact address in the dealer list on our website.

# ↗ SPARE PARTS



irrigation kit MT



protection foils



PIEZOSURGERY® insert box



torque wrench K11



PIEZOSURGERY®  
standard handpiece

## ↗ MT-BONE

↗ ITEM/REFERENCE NUMBER	
PIEZOSURGERY® MT handpiece	03120244
PIEZODRILL® MT handpiece	03120245
irrigation kit MT (qty 10 pcs disposable)	03230020
footswitch MT	04620003
PIEZOSURGERY® MT handpiece front metal cone (without LED)	00710158
PIEZODRILL® MT handpiece front metal cone (without LED)	00710159
MT support rod	02900197
torque wrench K11	02900170
torque wrench K8	02900109
MT-BONE trolley	04440028

## → COMMON SPARE PARTS PIEZOSURGERY®

→ ITEM/REFERENCE NUMBER
surgical tray 04610004
torque wrench K8 02900109
irrigation set 03230006
PIEZOSURGERY® insert box with a tray holding 15 inserts 02900111
insert tray 02900037
PIEZOSURGERY® insert box with bone expander tray 02900107
PIEZOSURGERY® insert box with implant insert tray 02900108
bag support rod 01380002

## → PIEZOSURGERY® touch → PIEZOSURGERY® white

→ ITEM/REFERENCE NUMBER
LED-handpiece, complete with cord 03120134
handpiece, complete with cord (compatible with PS white) 03120217
handpiece holder 02900105
mobile handpiece holder 03110015
handpiece LED-cone 03020158
handpiece metal cone 03020171
set of 8 tubes for pump 02900104
bone grafting set (liquid flow rate reducer) 02900106
protection foils (pack of 10 sterile pieces) 03230012
footswitch (PS touch) 02900102
footswitch (PS white) 02900114
suitcase (PS touch and PS white) 04440006

## → PIEZOSURGERY® I, II AND 3

→ ITEM/REFERENCE NUMBER
handpiece, complete with cord 03120023
handpiece holder (PSII + 3) 02900040
set of 8 tubes for pump (PSII + 3) (handpiece cord with metal connector) 02900039
set of 8 tubes for pump (PSII + 3) (handpiece cord with plastic connector) 02900104
tube-tube connector 00680027
footswitch (PSI + II) 02900020
footswitch (PS3) 02900078
peristaltic pump 03210006

## → WARNINGS

### → DIAMOND-COATED INSERTS

When the diamond chips wear out a reduction in cutting capacity and a consequent increase in temperature may occur. Use these inserts for a maximum of ten applications.

### → CUTTING INSERTS

When the nitriding wears out the cutting edge loses efficiency and a re-sharpening is unadvisable due to its limited life-span.

### → MEMBRANE SEPARATORS

For a greater life-span it is recommended to use it on low power.  
High power can be useful if there are residual bony edges to be removed.



# REFERENCE NUMBERS

ITEM/REFERENCE NUMBER	ITEM/REFERENCE NUMBER	ITEM/REFERENCE NUMBER			
PIEZODRILL® set A	01520027	insert IM1S	03510019	insert P3-4	03510021
PIEZODRILL® set B	01520028	PIN IM1	03740002	insert OT1	03370001
insert PD0118A	04800001	PIN IM1S	03740007	insert OT1A	03370008
insert PD0223A	04800002	PIN 2-2.4	03740003	insert OT2	03370002
insert PD0328A	04800003	PIN 2-3	03740001	insert OT4	03370004
insert PD0432A	04800004	insert IM1 AL	03510010	insert OT5	03370005
insert PD0535A	04800005	PIN IM1 AL	03740004	insert OT5A	03370009
insert PD0118B	04800006	PIN 2-2.4 AL	03740005	insert OT5B	03370010
insert PD0223B	04800007	PIN 2-3 AL	03740006	insert OT6	03370006
insert PD0328B	04800008	insert IM2A	03510001	insert OT7	03370007
insert PD0432B	04800009	insert IM2A-15	03510015	insert OT7A	03370011
insert PD0535B	04800010	insert IM2P	03510002	insert OT7S-4	03370014
basic set	01520001	insert IM2P-15	03510016	insert OT7S-3	03370015
osteotomy set	01520010	insert IM2.8A	03510025	insert OT7-20	03370017
sinus lift lateral set	01520023	insert IM2.8P	03510026	insert OT8R	03370012
piezo lift set	01520024	insert IM3A	03510003	insert OT8L	03370013
manual piezo lift set	01520026	insert IM3A-15	03510017	insert OT9	03370016
sinus lift set	01520002	insert IM3P	03510004	insert OT11	03370019
implant prep pro set	01520011	insert IM3P-15	03510018	insert OT12	03370020
extraction set	01520003	insert IM3.4A	03510027	insert OT12S	03370021
third molar extraction set	01520025	insert IM3.4P	03510028	insert OT13	03370022
explantation set	01520021	insert IM4A	03510005	insert OT14	03370023
resective perio set	01520022	insert IM4P	03510006	insert SLO-H	03370025
retro surgical set	01520005	insert P2-3	03510020	insert PL1	03370026

→ ITEM/REFERENCE NUMBER	→ ITEM/REFERENCE NUMBER	→ ITEM/REFERENCE NUMBER			
insert PL2	03370027	insert PR1	03390004	insert PP10	03180006
insert PL3	03370028	insert PR2	03390005	insert PP11	03180007
insert PL0419	03370030	insert EN1	02170001	insert PP12	03180008
insert PL0527	03370031	insert EN2	02170002	tipholder ICP	03570003
insert PL0631	03370032	insert EN3	02170005	tip IC1 (5 pieces)	02900112
insert PL0719	03370033	insert EN4	02170006	implant cleaning set P (ICP and 5 x IC1)	01520020
insert OP1	03380001	insert EN5R	02170007	crown prep set PS (DB2, AB1 and K7)	02160010
insert OP2	03380002	insert EN5L	02170008	tipholder DB2	03570002
insert OP3	03380003	insert EN6R	02170009	key AB1	03580001
insert OP3A	03380011	insert EN6L	02170010	dynamometric wrench K7	02900081
insert OP4	03380004	insert EX1	03400001	crown prep tip TA12D60	03590001
insert OP5	03380005	insert EX2	03400002	crown prep tip TA14D60	03590002
insert OP5A	03380012	insert EX3	03400003	crown prep tip TA16D60	03590003
insert OP6	03380006	insert EXL1	03400008	crown prep tip TA12D90	03590004
insert OP7	03380007	insert EXL2	03400009	crown prep tip TA14D90	03590005
insert OP8	03380008	insert EXL3	03400010	crown prep tip TA16D90	03590006
insert OP9	03380009	insert EXP3-R	03400004	crown prep tip TA14D120	03590007
insert SLC	03380013	insert EXP3-L	03400005	crown prep tip TA16D120	03590008
insert EL1	03390001	insert EXP4-R	03400006	crown prep tip TF12D60	03590010
insert EL2	03390002	insert EXP4-L	03400007	crown prep tip TF16D60	03590011
insert EL3	03390003	insert PS1	03180001	crown prep tip TF12D90	03590012
insert SLS	03390006	insert PS2	03180003	crown prep tip TF16D90	03590013
insert SLE1	03390007	insert PS6	03180005	Enzymec (pack of 2 bottles, 0.5 liter each)	03900008
insert SLE2	03390008	insert PP1	03180002		

# APPROPRIATE SETTINGS FOR THE INSERTS



→ PIEZOSURGERY® touch  
→ PIEZOSURGERY® white

→ INSERT	FUNCTION
<b>IMPLANT PREP</b>	
IM15	special*
IM1 AL	implant
IM2 A	implant
IM2A-15	implant
IM2P	implant
IM2P-15	implant
IM2.8A	implant
IM2.8P	implant
IM3 A	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
<b>OSTEOTOMY</b>	
OT1	cancellous / cortical
OT1A	cancellous / cortical
OT2	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
PL0419	cancellous / cortical
PL0527	cancellous / cortical
PL0631	cancellous / cortical
PL0719	cancellous / cortical
<b>OSTEOPLASTY</b>	
OP1	cancellous / cortical
OP2	cancellous / cortical
OP3	cancellous / cortical
OP3A	cancellous / cortical
OP4	cancellous / cortical
OP5	perio
OP5A	perio / special
OP6	perio
OP7	cancellous / cortical
OP8	perio / special
OP9	cancellous / cortical
SLC	cancellous / cortical
<b>SINUS MEMBRANE ELEVATION</b>	
EL1	endo*
EL2	endo*
EL3	endo*
SLS	special*
SLE1	special*
SLE2	special*
<b>PERIOSTEUM</b>	
PR1	cancellous / cortical
PR2	cancellous / cortical
<b>ENDO RETRO</b>	
EN1	endo*
EN2	endo*
EN3	endo*
EN4	endo*
EN5R	endo*
EN5L	endo*
EN6R	endo*
EN6L	endo*
<b>EXTRACTION</b>	
EX1	cancellous / cortical
EX2	cancellous / cortical
EX3	cancellous / cortical
EXL1	cortical
EXL2	cortical
EXL3	cortical
<b>EXPLANTATION</b>	
EXP2-R	special / cancellous / cortical
EXP3-L	special / cancellous / cortical
EXP4-R	special / cancellous / cortical
EXP4-L	special / cancellous / cortical
<b>PERIO</b>	
PP1	perio
PS1	perio
PS2	perio
PS6	perio
PP10	perio
PP11	perio
PP12	perio
<b>IMPLANT CLEANING</b>	
ICP + IC1	endo / perio
<b>RESTORATIVE</b>	
DB2	perio special

\* Maximum power permitted



## PIEZOSURGERY® 3

### → INSERT MODE POWER

#### IMPLANT PREP

	BONE	SPECIAL*
IM1S	BONE	SPECIAL*
IM1 AL	IMPL	IMPLANT
IM2A	IMPL	IMPLANT
IM2A-15	IMPL	IMPLANT
IM2P	IMPL	IMPLANT
IM2P-15	IMPL	IMPLANT
IM2.8A	IMPL	IMPLANT
IM2.8P	IMPL	IMPLANT
IM3A	IMPL	IMPLANT
IM3A -15	IMPL	IMPLANT
IM3P	IMPL	IMPLANT
IM3P-15	IMPL	IMPLANT
IM3.4A	IMPL	IMPLANT
IM3.4P	IMPL	IMPLANT
IM4A	IMPL	IMPLANT
IM4P	IMPL	IMPLANT
P2-3	IMPL	IMPLANT
P3-4	IMPL	IMPLANT

### → INSERT MODE POWER

#### OSTEOTOMY

OT1	BONE	SPONGIOUS / CORTICAL
OT1A	BONE	SPONGIOUS / CORTICAL
OT2	BONE	SPONGIOUS / CORTICAL
OT4	BONE	SPONGIOUS / CORTICAL
OT5	BONE	SPONGIOUS / CORTICAL
OT5A	BONE	SPONGIOUS / CORTICAL
OT5B	BONE	SPONGIOUS / CORTICAL
OT6	BONE	SPONGIOUS / CORTICAL
OT7	BONE	SPONGIOUS / CORTICAL
OT7A	BONE	SPONGIOUS / CORTICAL
OT7S-3	BONE	SPECIAL*
OT7S-4	BONE	SPECIAL*
OT7-20	BONE	SPONGIOUS / CORTICAL
OT8L	BONE	SPONGIOUS / CORTICAL
OT8R	BONE	SPONGIOUS / CORTICAL
OT9	BONE	SPONGIOUS / CORTICAL
OT11	BONE	SPONGIOUS / CORTICAL
OT12	BONE	SPONGIOUS / CORTICAL
OT12S	BONE	SPECIAL*
OT13	BONE	SPONGIOUS / CORTICAL
OT14	BONE	SPONGIOUS / CORTICAL
SLO-H	BONE	SPONGIOUS / CORTICAL
PL1	BONE	SPONGIOUS / CORTICAL
PL2	BONE	SPONGIOUS / CORTICAL
PL3	BONE	SPONGIOUS / CORTICAL
PL0419	BONE	SPONGIOUS / CORTICAL
PL0527	BONE	SPONGIOUS / CORTICAL
PL0631	BONE	SPONGIOUS / CORTICAL
PL0719	BONE	SPONGIOUS / CORTICAL

#### OSTEOPLASTY

OP1	BONE	SPONGIOUS / CORTICAL
OP2	BONE	SPONGIOUS / CORTICAL
OP3	BONE	SPONGIOUS / CORTICAL
OP3A	BONE	SPONGIOUS / CORTICAL
OP4	BONE	SPONGIOUS / CORTICAL
OP5	ROOT	PERIO
OP5A	ROOT	PERIO
	BONE	SPECIAL
OP6	ROOT	PERIO
OP7	BONE	SPONGIOUS / CORTICAL
OP8	ROOT	PERIO
	BONE	SPECIAL
OP9	BONE	SPONGIOUS / CORTICAL
SLC	BONE	SPONGIOUS / CORTICAL

### → INSERT MODE POWER

#### SINUS MEMBRANE ELEVATION

EL1	ROOT	ENDO*
EL2	ROOT	ENDO*
EL3	ROOT	ENDO*
SLS	BONE	SPECIAL*
SLE1	BONE	SPECIAL*
SLE2	BONE	SPECIAL*

#### PERIOSTEUM

PR1	BONE	SPONGIOUS / CORTICAL
PR2	BONE	SPONGIOUS / CORTICAL

#### ENDO RETRO

EN1	ROOT	ENDO*
EN2	ROOT	ENDO*
EN3	ROOT	ENDO*
EN4	ROOT	ENDO*
EN5R	ROOT	ENDO*
EN5L	ROOT	ENDO*
EN6R	ROOT	ENDO*
EN6L	ROOT	ENDO*

#### EXTRACTION

EX1	BONE	SPONGIOUS / CORTICAL
EX2	BONE	SPONGIOUS / CORTICAL
EX3	BONE	SPONGIOUS / CORTICAL
EXL1	BONE	CORTICAL
EXL2	BONE	CORTICAL
EXL3	BONE	CORTICAL

#### EXPLANTATION

EXP3-R	BONE	SPECIAL / SPONGIOUS / CORTICAL
EXP3-L	BONE	SPECIAL / SPONGIOUS / CORTICAL
EXP4-R	BONE	SPECIAL / SPONGIOUS / CORTICAL
EXP4-L	BONE	SPECIAL / SPONGIOUS / CORTICAL

#### PERIO

PP1	ROOT	PERIO
PS1	ROOT	PERIO
PS2	ROOT	PERIO
PS6	ROOT	PERIO
PP10	ROOT	PERIO
PP11	ROOT	PERIO
PP12	ROOT	PERIO

#### IMPLANT CLEANING

ICP + IC1	ROOT	ENDO / PERIO
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#### RESTORATIVE

DB2	ROOT	PERIO
	BONE	SPECIAL

\* Maximum power permitted

# APPROPRIATE SETTINGS FOR THE INSERTS



## PIEZOSURGERY® II

### → INSERT MODE POWER\*\*

#### IMPLANT PREP

IM15	BONE	SPECIAL*
IM1 AL	BONE	3/2/1
IM2 A	BONE	3/2/1
IM2A-15	BONE	3/2/1
IM2P	BONE	3/2/1
IM2P-15	BONE	3/2/1
IM2.8A	BONE	3/2/1
IM2.8P	BONE	3/2/1
IM3 A	BONE	3/2/1
IM3A -15	BONE	3/2/1
IM3P	BONE	3/2/1
IM3P-15	BONE	3/2/1
IM3.4A	BONE	3/2/1
IM3.4P	BONE	3/2/1
IM4 A	BONE	3/2/1
IM4P	BONE	3/2/1
P2-3	BONE	3/2/1
P3-4	BONE	3/2/1

### → INSERT MODE POWER\*\*

#### OSTEOTOMY

OT1	BONE	3/2/1
OT1A	BONE	3/2/1
OT2	BONE	3/2/1
OT4	BONE	3/2/1
OT5	BONE	3/2/1
OT5A	BONE	3/2/1
OT5B	BONE	3/2/1
OT6	BONE	3/2/1
OT7	BONE	3/2/1
OT7A	BONE	3/2/1
OT7S-3	BONE	SPECIAL*
OT7S-4	BONE	SPECIAL*
OT7-20	BONE	3/2/1
OT8L	BONE	3/2/1
OT8R	BONE	3/2/1
OT9	BONE	3/2/1
OT11	BONE	3/2/1
OT12	BONE	3/2/1
OT12S	BONE	SPECIAL*
OT13	BONE	3/2/1
OT14	BONE	3/2/1
SLO-H	BONE	3/2/1
PL1	BONE	3/2/1
PL2	BONE	3/2/1
PL3	BONE	3/2/1
PL0419	BONE	3/2/1
PL0527	BONE	3/2/1
PL0631	BONE	3/2/1
PL0719	BONE	3/2/1

#### OSTEOPLASTY

OP1	BONE	3/2/1
OP2	BONE	3/2/1
OP3	BONE	3/2/1
OP3A	BONE	3/2/1
OP4	BONE	3/2/1
OP5	ROOT	PERIO
OP5A	ROOT	PERIO
	BONE	SPECIAL
OP6	ROOT	PERIO
OP7	BONE	3/2/1
OP9	BONE	3/2/1
SLC	BONE	3/2/1

### → INSERT MODE POWER\*\*

#### SINUS MEMBRANE ELEVATION

EL1	ROOT	ENDO*
EL2	ROOT	ENDO*
EL3	ROOT	ENDO*
SLS	BONE	SPECIAL 1
SLE1	BONE	SPECIAL 1
SLE2	BONE	SPECIAL 1

#### PERIOSTEUM

PR1	BONE	3/2/1
PR2	BONE	3/2/1

#### ENDO RETRO

EN1	ROOT	ENDO*
EN2	ROOT	ENDO*
EN3	ROOT	ENDO*
EN4	ROOT	ENDO*
EN5R	ROOT	ENDO*
EN5L	ROOT	ENDO*
EN6R	ROOT	ENDO*
EN6L	ROOT	ENDO*

#### EXTRACTION

EX1	BONE	3/2/1
EX2	BONE	3/2/1
EX3	BONE	3/2/1
EXL1	BONE	1
EXL2	BONE	1
EXL3	BONE	1

#### EXPLANTATION

EXP3-R	BONE	SPECIAL/3/2/1
EXP3-L	BONE	SPECIAL/3/2/1
EXP4-R	BONE	SPECIAL/3/2/1
EXP4-L	BONE	SPECIAL/3/2/1

#### PERIO

PP1	ROOT	PERIO
PS1	ROOT	PERIO
PS2	ROOT	PERIO
PS6	ROOT	PERIO
PP10	ROOT	PERIO
PP11	ROOT	PERIO
PP12	ROOT	PERIO

#### IMPLANT CLEANING

ICP + IC1	ROOT	ENDO/PERIO
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#### RESTORATIVE

DB2	ROOT	PERIO
	BONE	SPECIAL



## PIEZOSURGERY®

### → INSERT MODE POWER

#### IMPLANT PREP

IM1	BOOSTED	C
IM1 AL	BOOSTED	C
IM2 A	BOOSTED	C
IM2 A-15	BOOSTED	C
IM2 P	BOOSTED	C
IM2 P-15	BOOSTED	C
IM2.8 A	BOOSTED	C
IM2.8 P	BOOSTED	C
IM3 A	BOOSTED	C
IM3 A -15	BOOSTED	C
IM3 P	BOOSTED	C
IM3 P-15	BOOSTED	C
IM3.4 A	BOOSTED	C
IM3.4 P	BOOSTED	C
IM4 A	BOOSTED	C
IM4 P	BOOSTED	C
P2-3	BOOSTED	C
P3-4	BOOSTED	C

### → INSERT MODE POWER

#### OSTEOTOMY

OT1	BOOSTED	C
OT1A	BOOSTED	C
OT2	BOOSTED	C
OT4	BOOSTED	C
OT5	BOOSTED	C
OT5A	BOOSTED	C
OT5B	BOOSTED	C
OT6	BOOSTED	C
OT7	BOOSTED	C
OT7A	BOOSTED	C
OT7S-3	BOOSTED	C
OT7S-4	BOOSTED	C
OT7-20	BOOSTED	C
OT8L	BOOSTED	C
OT8R	BOOSTED	C
OT9	BOOSTED	C
OT11	BOOSTED	C
OT12	BOOSTED	C
OT12S	BOOSTED	C
OT13	BOOSTED	C
OT14	BOOSTED	C
SLO-H	BOOSTED	C
PL1	BOOSTED	C
PL2	BOOSTED	C
PL3	BOOSTED	C
PL0419	BOOSTED	C
PL0527	BOOSTED	C
PL0631	BOOSTED	C
PL0719	BOOSTED	C

#### OSTEOPLASTY

OP1	BOOSTED	C
OP2	BOOSTED	C
OP3	BOOSTED	C
OP3A	BOOSTED	C
OP4	BOOSTED	C
OP5	HIGH	2 - 3
OP5A	HIGH	2 - 3
OP6	ROOT	2 - 3
OP7	BOOSTED	C
OP9	BOOSTED	C
SLC	BOOSTED	C

### → INSERT MODE POWER

#### SINUS MEMBRANE ELEVATION

EL1	LOW	1
EL2	LOW	1
EL3	LOW	1
SLS	BOOSTED	C
SLE1	BOOSTED	C
SLE2	BOOSTED	C

#### PERIOSTEUM

PR1	BOOSTED	C
PR2	BOOSTED	C

#### ENDO RETRO

EN1	LOW	1
EN2	LOW	1
FN3	LOW	1
EN4	LOW	1
EN5R	LOW	1
EN5L	LOW	1
EN6R	LOW	1
EN6L	LOW	1

#### EXTRACTION

EX1	BOOSTED	C
EX2	BOOSTED	C
EX3	BOOSTED	C
EXL1	BOOSTED	C
EXL2	BOOSTED	C
EXL3	BOOSTED	C

#### EXPLANTATION

EXP3-R	BOOSTED	C
EXP3-L	BOOSTED	C
EXP4-R	BOOSTED	C
EXP4-L	BOOSTED	C

#### PERIO

PP1	HIGH	2 - 3
PS1	HIGH	2 - 3
PS2	HIGH	2 - 3
PS6	HIGH	2 - 3
PP10	HIGH	2 - 3
PP11	HIGH	2 - 3
PP12	HIGH	2 - 3

#### IMPLANT CLEANING

ICP + IC1	HIGH	2 - 3
	LOW	1

#### RESTORATIVE

DB2	HIGH	2 - 3
	BOOSTED	A

# ↗ IMPLANT SITE PREPARATION SEQUENCE

## → PIEZOSURGERY® IMPLANT SITE PREPARATION INSERTS

→ 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	
		IM3.4	H	CORTICAL BONE TAP TOOL	H	CORTICAL BONE TAP TOOL	H

L low bone density

M medium bone density

H hard bone density

\* only crestal cortical

 NOTE

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The following products are registered under MDR 2017/745. For graphic reasons the styling of the product names might be different. The registered product names correspond as following:

- |                      |                     |
|----------------------|---------------------|
| • MT-Bone            | MT-BONE             |
| • PIEZOSURGERY touch | PIEZOSURGERY® touch |
| • PIEZOSURGERY white | PIEZOSURGERY® white |