

mectron

 **MECTRON**
PIEZOSURGERY® INSERTS



PIEZOSURGERY®

THE ORIGINAL
PIEZOELECTRIC
BONE SURGERY –
EVIDENCE-BASED!




4	PIEZOSURGERY® Technique	35	Insert IM2.8P	64	Insert OT12	91	Insert EN2
6	Insert quality	36	Insert IM3A - IM3A-15	65	Insert OT12S	92	Insert EN3
8	Indications	37	Insert IM3P - IM3P-15	66	Insert OT13	93	Insert EN4
10	Basic Kit	38	Insert IM3.4A	67	Insert OT14	94	Insert EN5R
11	Osteotomy Kit	39	Insert IM3.4P	68	Insert SLO-H	95	Insert EN5L
12	Sinus Lift Lateral Kit	40	Insert IM4A	69	Insert PL1	96	Insert EN6R
13	Piezo Lift Kit	41	Insert IM4P	70	Insert PL2	97	Insert EN6L
14	Sinus Lift Kit	42	Insert P2-3	71	Insert PL3	98	Insert EX1
15	Implant Prep Kit	43	Insert P3-4	72	Insert OP1	99	Insert EX2 - EX3
16	Implant Prep Kit Pro	44	Bone Expanders	73	Insert OP2	100	Insert EXP3-R - EXP3-L
17	Implant Prep Kit Starter	46	Sinus Physiolift® II	74	Insert OP3 - OP3A	101	Insert EXP4-R - EXP4-L
18	Extraction Kit	48	Insert IM1 SP	75	Insert OP4	102	Insert PS1
19	Explantation Kit	49	Insert IM2 SP	76	Insert OP5 - OP5A	103	Insert PS2
20	Periodontal Kit	50	Insert P2-3 SP	77	Insert OP6	104	Insert PS6
21	Resective Perio Kit	51	Insert OT1	78	Insert OP7	105	Insert PP1
22	Retro Surgical Kit	52	Insert OT1A	79	Insert OP8	106	Insert PP10
24	Bone Expander Kits	53	Insert OT2	80	Insert OP9	107	Insert PP11-PP12
25	Sinus Physiolift® II Kits	54	Insert OT4	81	Insert SLC	108	Tipholder ICP, tip IC1
26	PIEZOSURGERY® insert box	55	Insert OT5 - OT5A - OT5B	82	Insert EL1	109	Crown prep tips
27	Insert Tray	56	Insert OT6	83	Insert EL2	110	Enzymec
28	Insert IM1S	57	Insert OT7 - OT7A	84	Insert EL3	112	Science
29	PINS IM1, IM1S, 2-2.4, 2-3	58	Insert OT7S-4	85	Insert SLS	114	Spare Parts
30	Insert IM1 AL	59	Insert OT7S-3	86	Insert SLE1	116	Reference Numbers
31	PINS IM1 AL, 2-2.4 AL, 2-3 AL	60	Insert OT7-20	87	Insert SLE2	118	Appropriate settings for the inserts
32	Insert IM2A - IM2A-15	61	Insert OT8R - OT8L	88	Insert PR1	122	Implant site preparation sequence
33	Insert IM2P - IM2P-15	62	Insert OT9	89	Insert PR2		
34	Insert IM2.8A	63	Insert OT11	90	Insert EN1		

PIEZOSURGERY® TECHNIQUE

PIEZOSURGERY®
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

A piezosurgery handpiece is shown standing upright on a metal stand, connected to a control unit. The handpiece has a white handle and a silver shaft with a gold-colored tip. The control unit is a black and white rectangular device with a control panel on top. The panel features several blue buttons and a digital display. The brand name 'Piezosurgery' is visible on the top right of the control unit. Cables are connected to the front and back of the control unit.

Thanks to the controlled sophisticated ultrasound vibrations, the original PIEZOSURGERY® technique opens up a new age for osteotomy, osteoplasty and extraction in Implantology, Periodontology, Endodontics and Surgical Orthodontics.

- MICROMETRIC CUTS: maximum surgical precision and intra-operative sensitivity
- SELECTIVE CUTS: minimal damage to soft tissue, maximum safety for you and your patients
- CAVITATION EFFECT: maximum 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 0.1 μm .
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

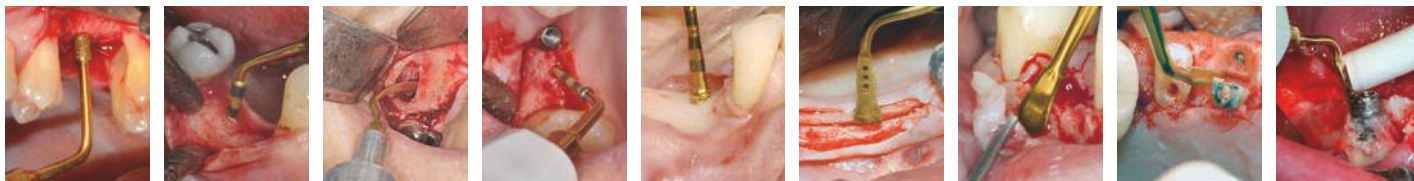
Each insert is gently labeled by a laser.

→ QUALITY CHECK

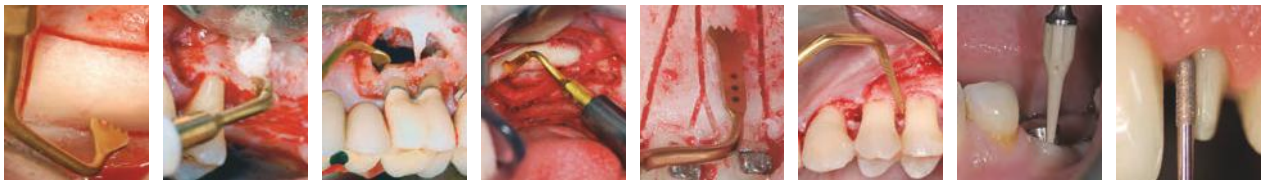
Each insert is checked in detail before getting an OK for the sales.

INDICATIONS

→ SINUS LIFT TECHNIQUE CRESTAL APPROACH		→ SINUS LIFT TECHNIQUE LATERAL APPROACH		→ IMPLANT SITE PREPARATION		→ RIDGE EXPANSION	→ PERIOSTEUM PREPARATION	→ EXTRACTIONS	→ EXPLANTATION
→ PIEZO-LIFT	→ SINUS PHYSIOLIFT	→ STANDARD	→ STANDARD	→ OPTIONAL	→ STANDARD	→ STANDARD	→ STANDARD	→ STANDARD	→ STANDARD
PL1	IM1 SP	SLC	IM1S	IM1 AL	OT7	PR1	EX1	EXP3-R	
PL2	IM2 SP	SLO-H	IM2A	IM2A-15	OT4	PR2	EX2	EXP3-L	
PL3	P2-3 SP	SLS	IM3A	IM2.8A	OP5		EX3	EXP4-R	
	OT9	SLE1	IM4A	IM3A-15	→ OPTIONAL		PS2	EXP4-L	
	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							



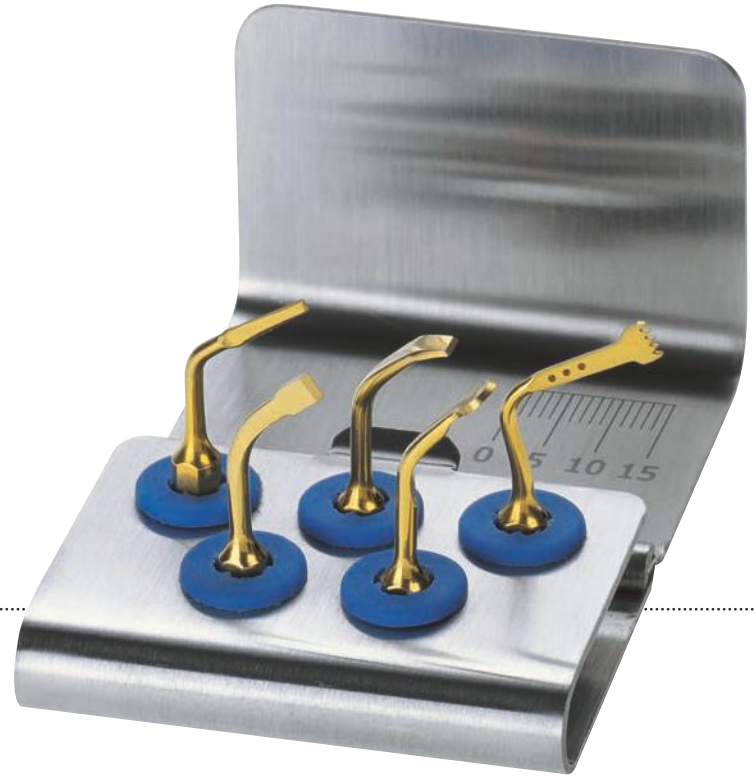
→ BONE BLOCK GRAFTING	→ BONE CHIP GRAFTING/BONE MODELING	→ ENDODONTICS	→ OSTEOTOMY CLOSE TO NERVES	→ CORTICOTOMY TECHNIQUE	→ PERIODONTAL SURGERY	→ CROWN PREPARATION
→ STANDARD	→ STANDARD	→ STANDARD	→ STANDARD	→ STANDARD	→ STANDARD	→ OPTIONAL
OT7	OP3	OP7	OT1	OT7S-4	OP5A	PS1
OP5	OP1	PS2	OT5	OT7S-3	OP8	PS6
OT8L	→ OPTIONAL	EN1		→ OPTIONAL	OP9	PP10
OT8R	OP2	EN2		OT7	OT13	PP11
→ OPTIONAL	OP3A	EN3		OT7A	OT14	PP12
OT6		EN4			OP5	OP2
OT7A		→ OPTIONAL			OP3	OP3A
OT7S-4		EN5R			PS2	OP4
OT7S-3		EN5L			PP1	OP6
OT7-20		EN6R			ICP + IC1	
OT12		EN6L				
OT12S		OP3				
						DB2
						CROWN PREP TIPS
						TA12D90* Ø 1.2 mm
						TA12D60*
						TA14D120* Ø 1.4 mm
						TA14D90*
						TA14D60*
						TA16D120* Ø 1.6 mm
						TA16D90*
						TA16D60*
						TF12D90* Ø 1.2 mm
						TF12D60*
						TF16D90* Ø 1.6 mm
						TF16D60*



→ BASIC KIT

→ EQUIPPED WITH:

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



→ OT7 → OT2 → EX1 → OP1 → OP3



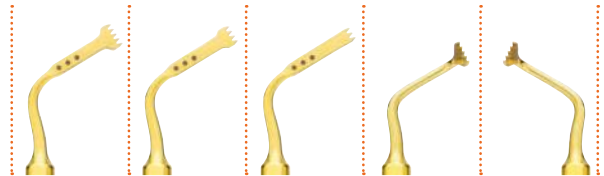
→ OSTEOTOMY KIT



→ EQUIPPED WITH:

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

→ OT7 → OT7S-4 → OT7S-3 → OT8R → OT8L



→ SINUS LIFT LATERAL KIT*

→ EQUIPPED WITH:

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



→ SLC → SLO-H → SLS → SLE1 → SLE2

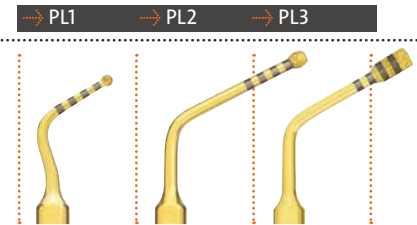


→ PIEZO LIFT KIT



→ EQUIPPED WITH:

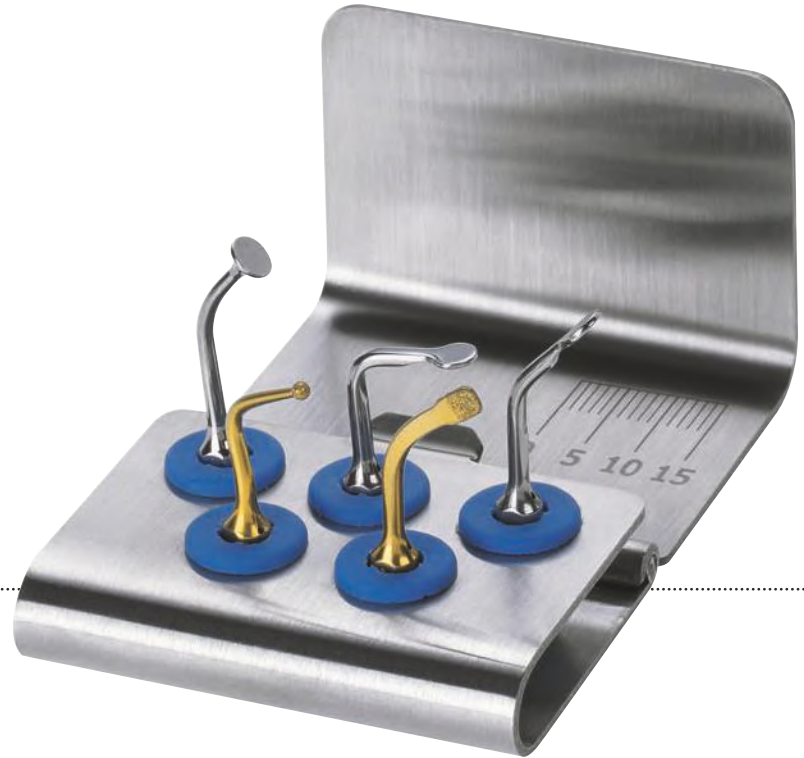
- 1 insert PL1
- 1 insert PL2
- 1 insert PL3
- 1 insert tray



→ SINUS LIFT KIT

→ EQUIPPED WITH:

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



→ OT1 → OT5 → EL1 → EL2 → EL3



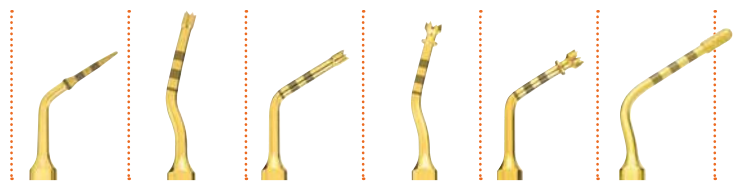
→ IMPLANT PREP KIT



→ EQUIPPED WITH:

- 1 insert IM1S
- 1 insert IM2A
- 1 insert IM2P
- 1 insert IM3A
- 1 insert IM3P
- 1 insert OT4
- 1 implant insert tray

→ IM1S → IM2A → IM2P → IM3A → IM3P → OT4



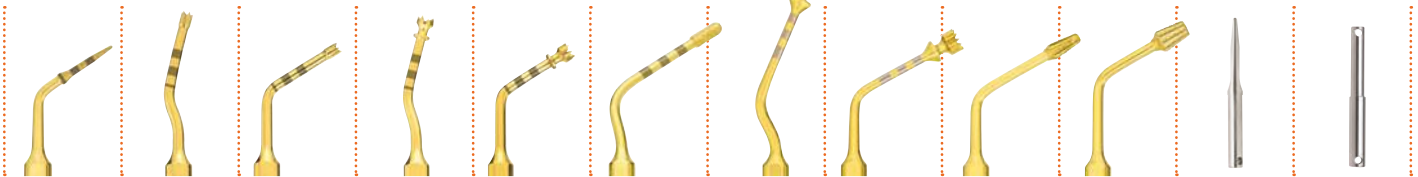
→ IMPLANT PREP KIT PRO

→ EQUIPPED WITH:

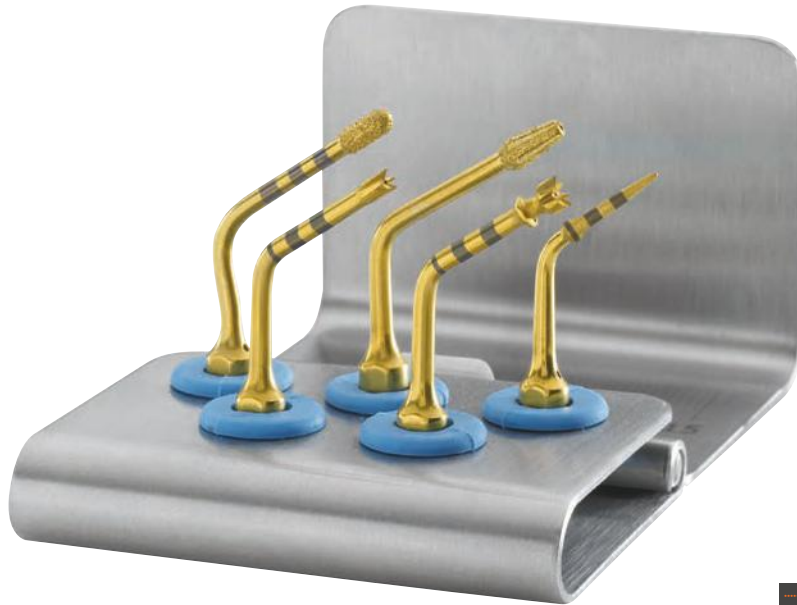
- 1 insert IM1S
- 1 insert IM2A
- 1 insert IM2P
- 1 insert IM3A
- 1 insert IM3P
- 1 insert OT4
- 1 insert IM4A
- 1 insert IM4P
- 1 insert P2-3
- 1 insert P3-4
- 3 pins IM1S
- 3 pins 2-2.4
- 1 implant insert tray



→ IM1S → IM2A → IM2P → IM3A → IM3P → OT4 → IM4A → IM4P → P2-3 → P3-4 → PIN IM1S → PIN 2-2.4



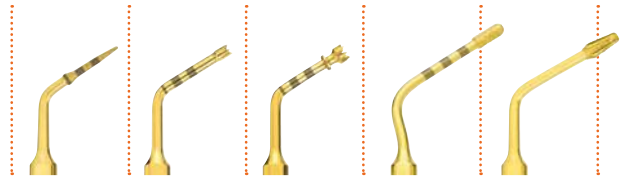
→ IMPLANT PREP KIT STARTER



→ EQUIPPED WITH:

- 1 insert IM1S
- 1 insert IM2P
- 1 insert IM3P
- 1 insert OT4
- 1 insert P2-3
- 1 insert tray

→ IM1S → IM2P → IM3P → OT4 → P2-3



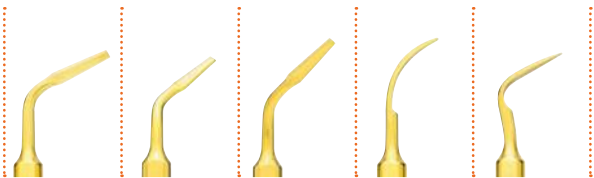
→ EXTRACTION KIT

→ EQUIPPED WITH:

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



→ EX1 → EX2 → EX3 → PS2 → PS6



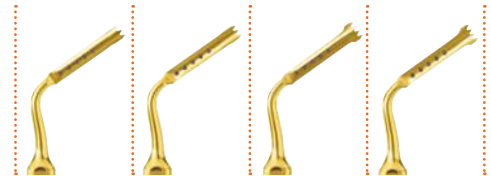
→ EXPLANTATION KIT



→ EQUIPPED WITH:

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

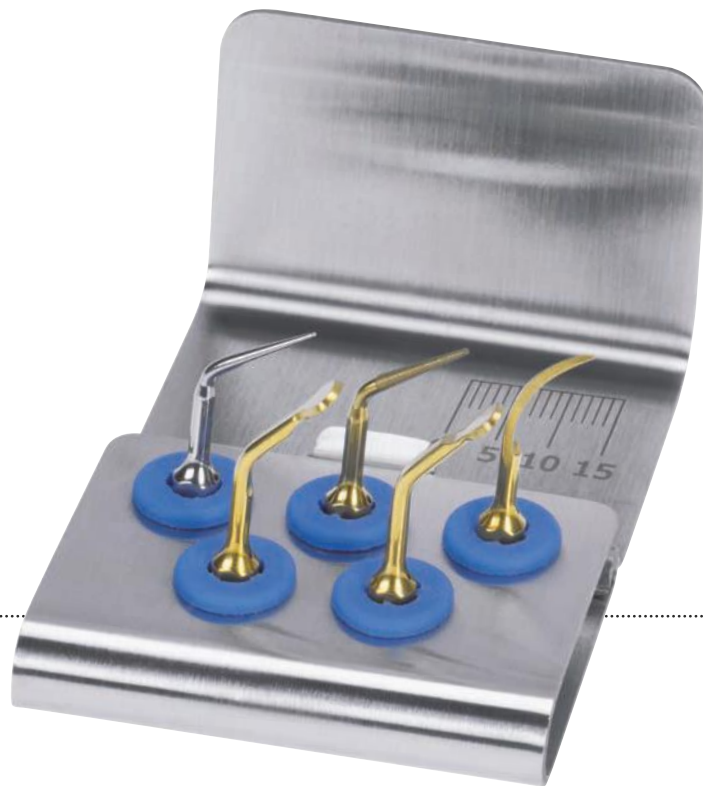
→ EXP3-R → EXP3-L → EXP4-R → EXP4-L



→ PERIODONTAL KIT

→ EQUIPPED WITH:

- 1 insert PS2
- 1 insert OP5
- 1 insert PP1
- 1 insert OP3
- 1 insert OP3A
- 1 insert tray



→ PS2 → OP5 → PP1 → OP3 → OP3A



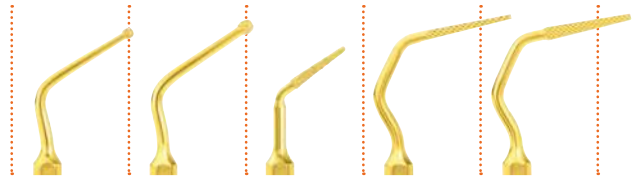
→ RESECTIVE PERIO KIT*



→ EQUIPPED WITH:

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

→ OT13 → OT14 → OP5A → OP8 → OP9

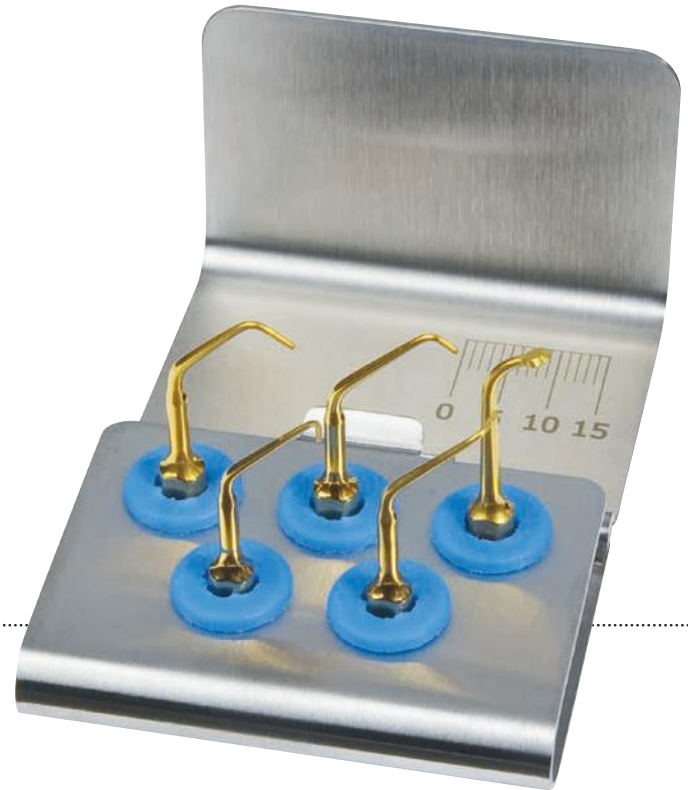


* developed in collaboration with Prof. Leonardo Trombelli and the University of Ferrara, Italy

RETRO SURGICAL KIT

→ EQUIPPED WITH:

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



→ OP7 → EN1 → EN3 → EN5R → EN5L



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→ BONE EXPANDER KITS

BONE EXPANDER KIT

→ EQUIPPED WITH:

- 1 expander of each type
- 1 ADM8
- 1 bone expander tray



BONE EXPANDER KIT PRO

→ EQUIPPED WITH:

- 1 expander of each type
- 1 ADM8, 1 ADR16, 1 ADR7
- 1 ratchet
- 1 bone expander tray



BONE EXPANDER KIT PRO S

→ EQUIPPED WITH:

- 2 expanders of each type
- 1 ADM8, 1 ADR16, 1 ADR7
- 1 ratchet
- 1 bone expander tray



→ 2.5x11.5 → 3.5x11.5 → 4.5x11.5 → 2.5x15 → 3.5x15 → 4.5x15 → ADM8 → ADR16 → ADR7 → RATCHET



→ SINUS PHYSIOLIFT® II KITS

SINUS PHYSIOLIFT® II KIT STARTER

→ EQUIPPED WITH:

Crestal sinus elevators 1 x CS1 and 1 x CS2
 Pressure control system: Physiolifter
 Micromotor adapter: ADM10
 1 silicone tube with tube-tube connector
 1 complete sealed tube
 1 sterile disposable syringe
 1 insert tray
 Clinical Protocol and DVD

SINUS PHYSIOLIFT® II KIT BASIC

→ EQUIPPED WITH:

Crestal sinus elevators 2 x CS1 and 2 x CS2
 Pressure control system: Physiolifter
 Ball shaped probe PROBE SP
 Micromotor and ratchet adapters:
 ADM10, ADR10
 Ratchet
 3 silicone tubes with tube-tube connector
 2 complete sealed tubes
 3 sterile disposable syringes
 2 insert trays
 Clinical Protocol and DVD

SINUS PHYSIOLIFT® II KIT PRO

→ EQUIPPED WITH:

PIEZOSURGERY® inserts: IM1 SP, IM2 SP, P2-3 SP, OT9
 Alignment pins: PIN IM1, PIN 2-2.4
 Crestal sinus elevators 2 x CS1 and 2 x CS2
 Pressure control system: Physiolifter
 Ball shaped probe PROBE SP
 Micromotor and ratchet adapters:
 ADM10, ADR10
 Ratchet
 3 silicone tubes with tube-tube connector
 2 complete sealed tubes
 3 sterile disposable syringes
 3 insert trays
 Clinical Protocol and DVD

→ CS1 → CS2 → PHYSILIFTER → ADR10 → ADM10 → RATCHET → PLUG → PROBE SP → IM1 SP → IM2 SP → P2-3 SP → OT9

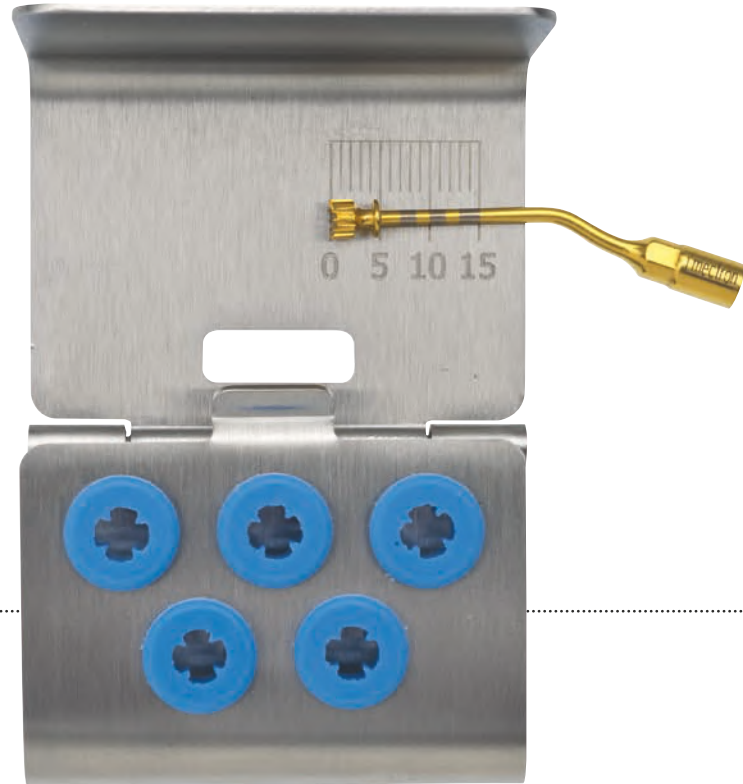
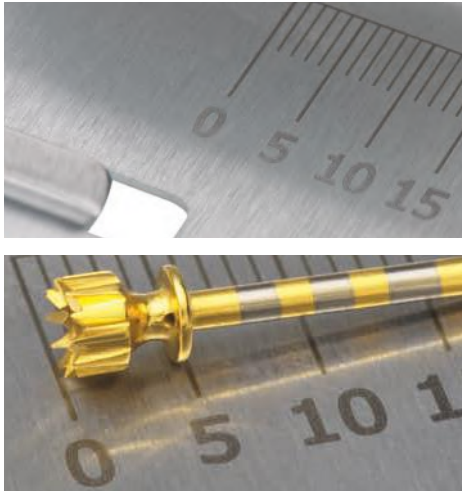


PIEZOSURGERY® INSERT BOX



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

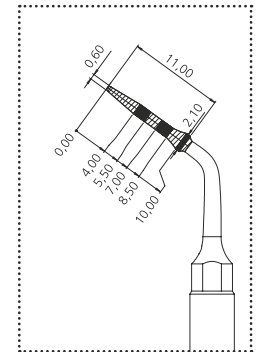
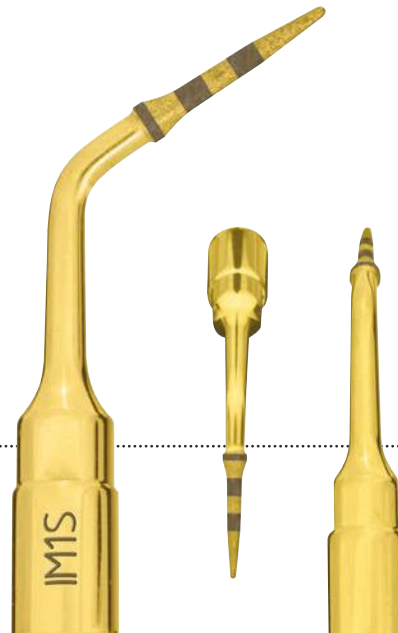
→ INSERT TRAY



- stainless steel tray with depth markings
- for sterilisation and storage

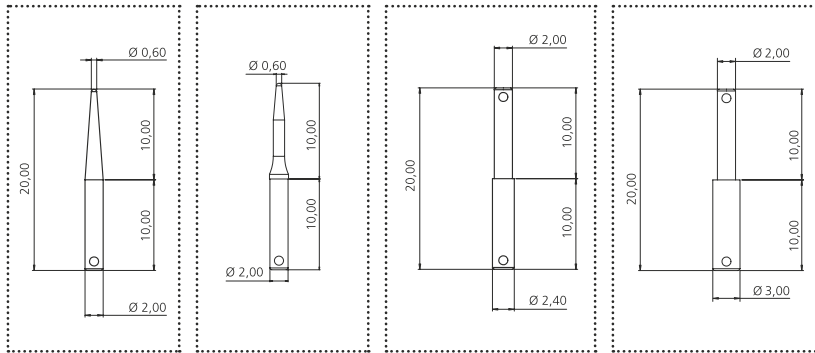
→ CUTTING ACTION
bone perforation

→ CLINICAL APPLICATION
initial pilot osteotomy



diamond grain size 30 µm

→ PINS IM1, IM1S, 2-2.4, 2-3

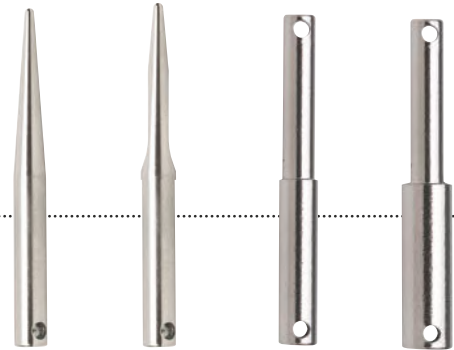


→ DESCRIPTION

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

IM1 AL

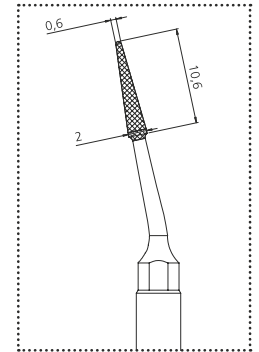
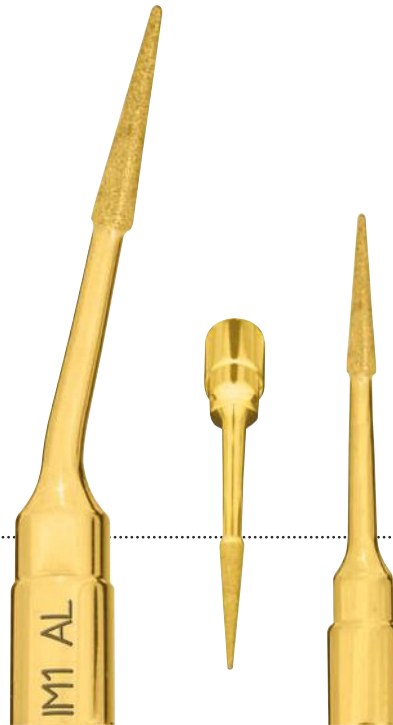
insert for initial osteotomy in extraction sites

→ CUTTING ACTION

bone perforation

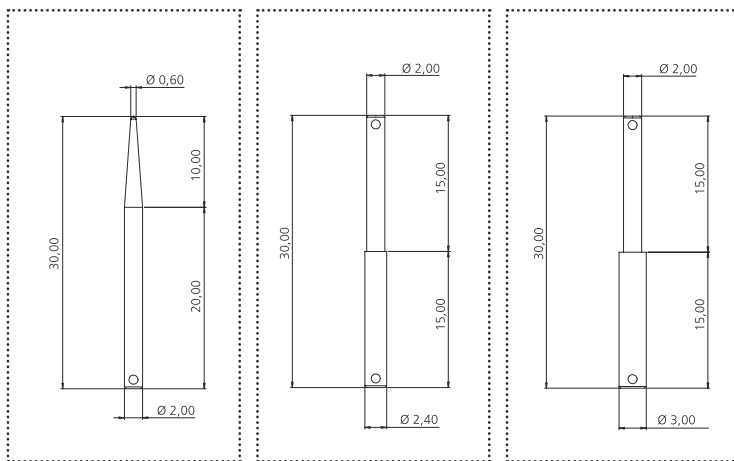
→ CLINICAL APPLICATION

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

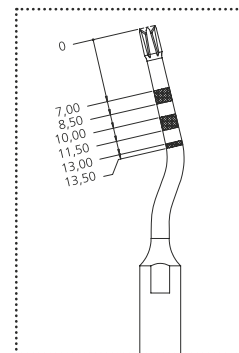
→ PIN 2-3 AL

IM2A – IM2A-15

2 mm \emptyset implant site preparation insert

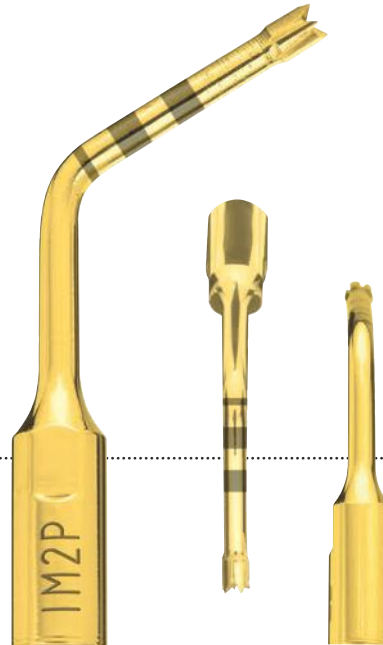
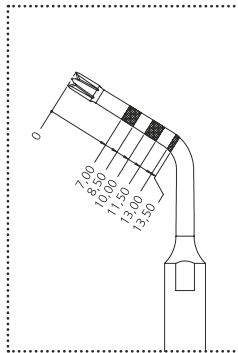
→ CUTTING ACTION
bone perforation

→ CLINICAL APPLICATION
pilot osteotomy in anterior region



2 mm Ø implant site preparation insert

→ IM2P – IM2P-15



→ CUTTING ACTION

bone perforation

→ CLINICAL APPLICATION

pilot osteotomy in posterior region



IM2.8A

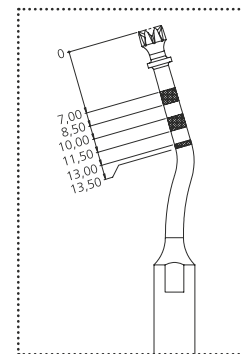
2.8 mm \emptyset implant site preparation insert

→ CUTTING ACTION

bone perforation

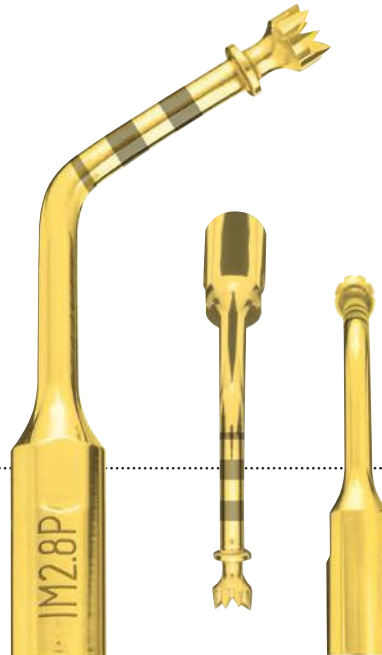
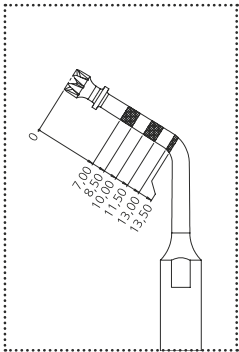
→ CLINICAL APPLICATION

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



2.8 mm \varnothing 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

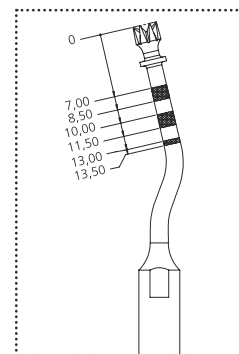
3 mm Ø implant site preparation insert

→ **CUTTING ACTION**

bone perforation

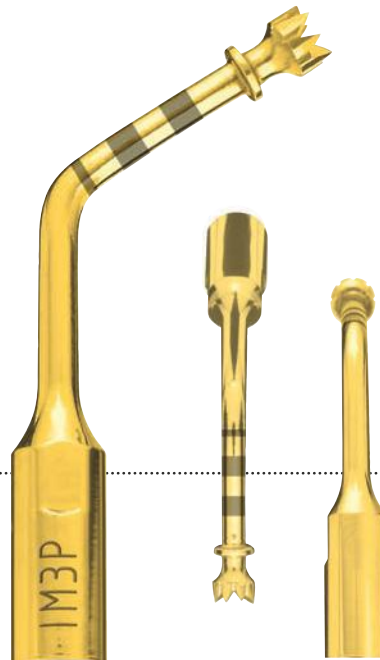
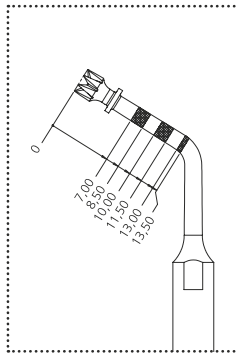
→ **CLINICAL APPLICATION**

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



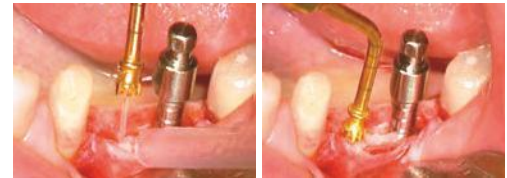
3 mm Ø implant site preparation insert

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

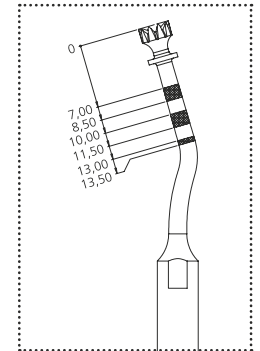
3.4 mm Ø implant site preparation insert

→ CUTTING ACTION

bone perforation

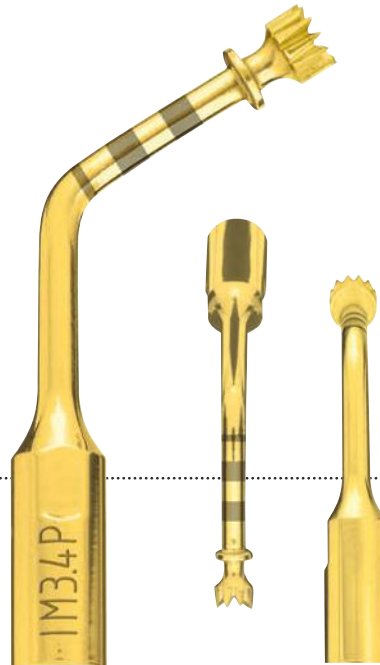
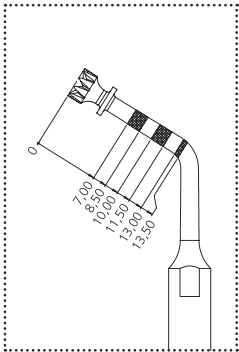
→ CLINICAL APPLICATION

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



3.4 mm \varnothing implant site preparation insert

IM3.4P



→ CUTTING ACTION

bone perforation

→ CLINICAL APPLICATION

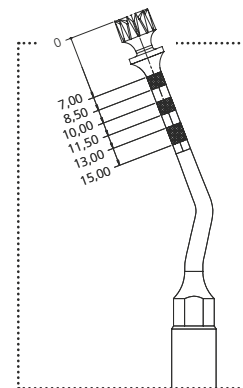
to enlarge or to finalize the implant site preparation; insert with double irrigation to avoid overheating

→ CUTTING ACTION

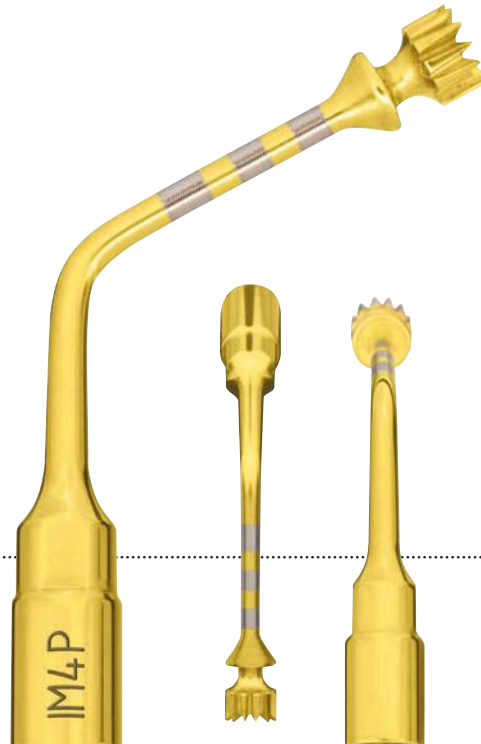
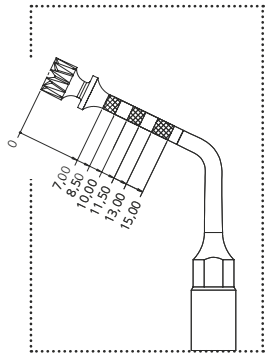
bone perforation

→ 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

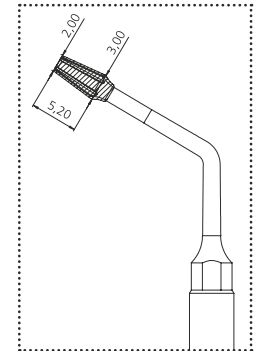
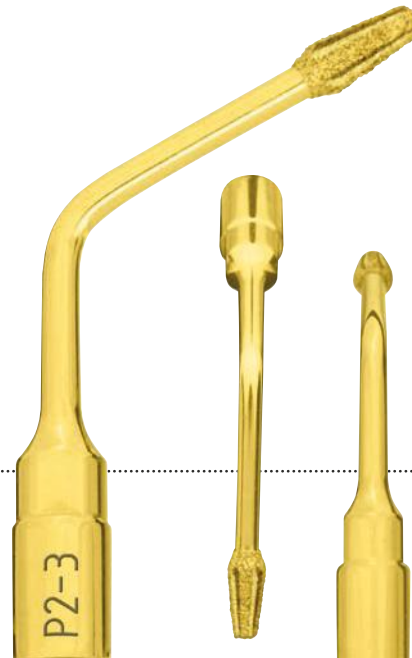
→ CLINICAL APPLICATION

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

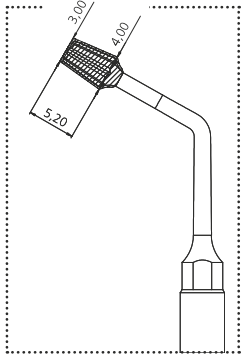


→ CUTTING ACTION
micrometric osteotomy

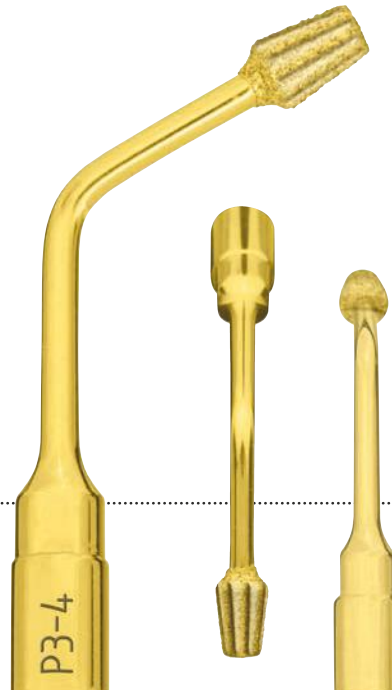
→ CLINICAL APPLICATION
to optimize concentricity of
implant site preparation
between $\varnothing 2$ and $\varnothing 3$ mm



diamond grain size 150 μm



diamond grain size 150 µm



→ CUTTING ACTION
micrometric osteotomy

→ CLINICAL APPLICATION
to optimize concentricity of
implant site preparation
between $\varnothing 3$ and $\varnothing 4$ mm



→ BONE EXPANDERS

Dr. Sentineri's technique

→ DESCRIPTION

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.

→ CLINICAL APPLICATION

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

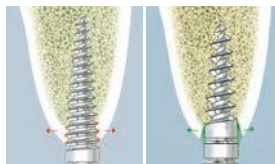


→ AVAILABLE EXPANDERS

2.5 x 11.5

3.5 x 11.5

4.5 x 11.5



Conventional expander mectron expander



2.5 x 15



3.5 x 15



4.5 x 15

(Ø x length, in mm)

16 mm



→ ADR16

Long adapter
for ratchet

7 mm



→ ADR7

Short adapter
for ratchet

8 mm



→ ADM8

Adapter for
micromotor



→ RATCHET

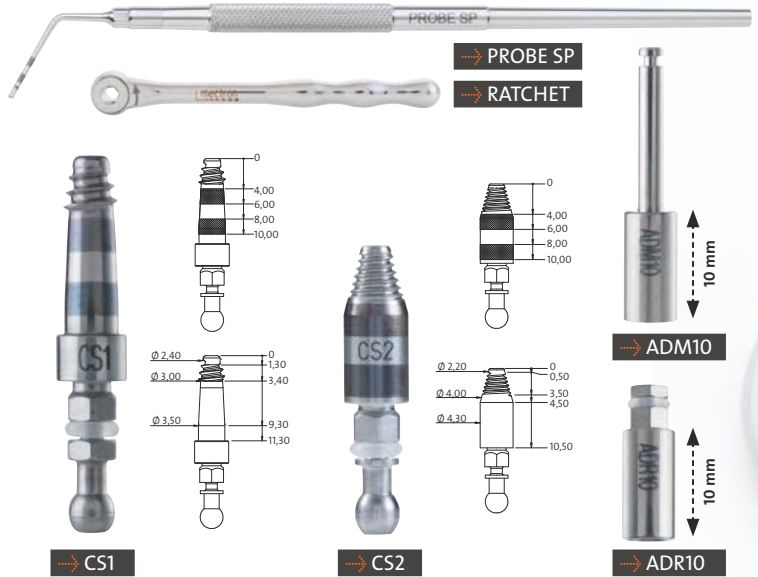
→ SINUS PHYSIOLIFT® II

→ DESCRIPTION

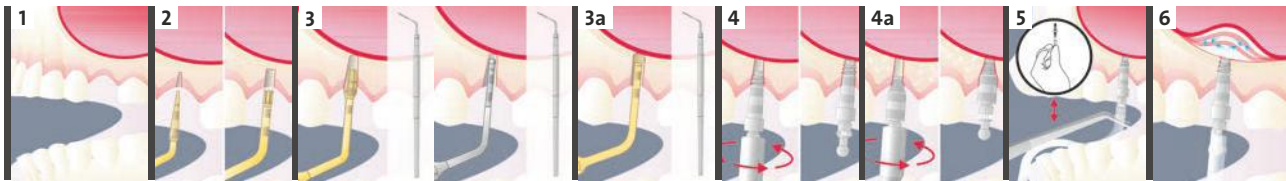
A minimally invasive technique of maxillary sinus elevation by the crestal approach using screw elevators and hydrodynamic pressure.

→ CLINICAL APPLICATION

- Elevation of the sinus membrane with micrometric precision by means of hydrodynamic pressure
- Watertight sinus elevators CS1 or CS2 for hydrodynamic sinus lift
- Atraumatic technique not requiring the use of hammer and osteotome
- Implant site preparation using PIEZOSURGERY® – the insert P2-3 SP allows to remove the sinus basal cortex with minimal risk of penetrating into sinus cavity due to its conical shape
- Multiple implant placement can be performed
- A flapless procedure can be performed in some cases



→ SINGLE IMPLANT SINUS LIFT

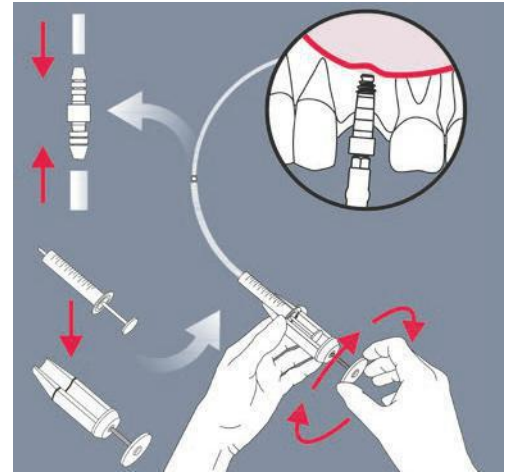




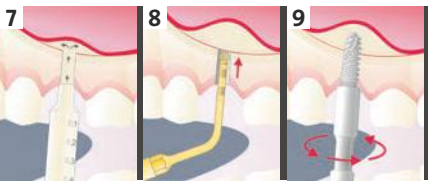
→ PHYSIOLIFTER



→ PLUG



After preparation of the site with PIEZOSURGERY®, the CS1 or CS2 elevator is introduced, and the tube connected to a syringe containing 2 ml of physiological saline solution is then inserted in the CS1 or CS2. With the SINUS PHYSIOLIFT® II protocol, it is possible to elevate the Schneiderian membrane safely, controlling the pressure of the liquid by means of the attached Physiolifter device.



→ MULTIPLE IMPLANT SINUS LIFT



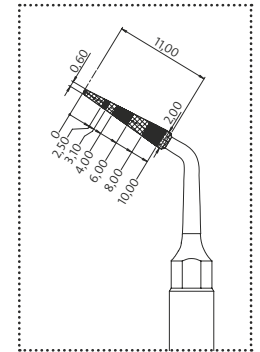
SINUS PHYSIOLIFT®

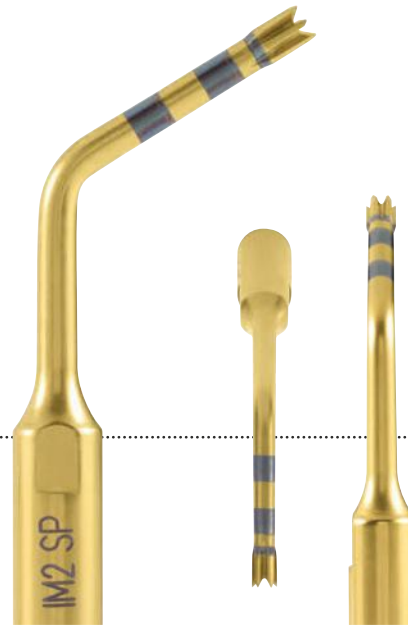
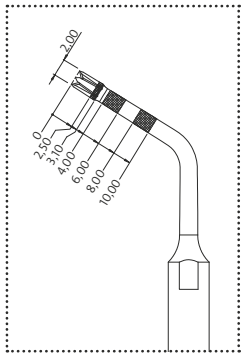
→ CUTTING ACTION

bone perforation

→ CLINICAL APPLICATION

initial osteotomy in Sinus Physiolt[®]
technique





→ CUTTING ACTION

bone perforation

→ CLINICAL APPLICATION

osteotomy in Sinus Physiolift® technique



→ P2-3 SP

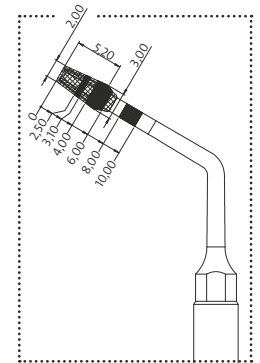
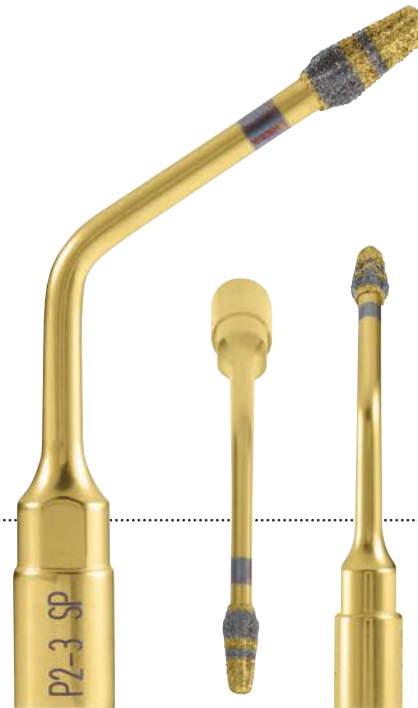
implant site preparation insert

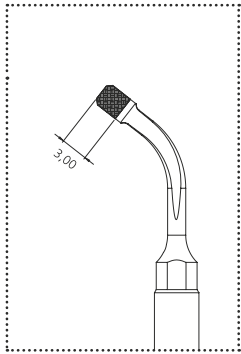
→ CUTTING ACTION

bone perforation

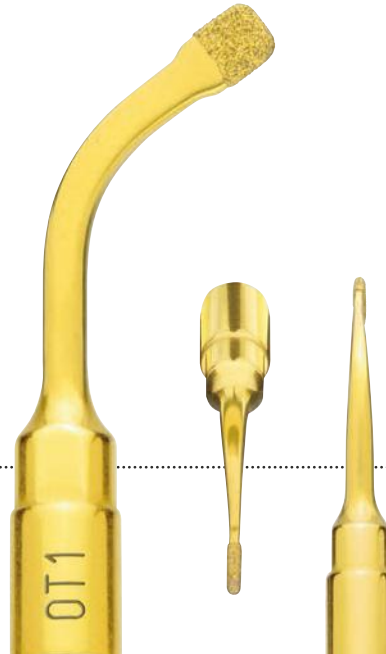
→ CLINICAL APPLICATION

removal of sinus basal cortex in
Sinus Physiolift® procedure





diamond grain size 91 μm



→ 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)

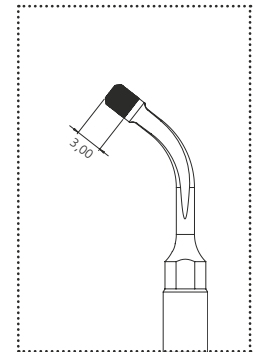
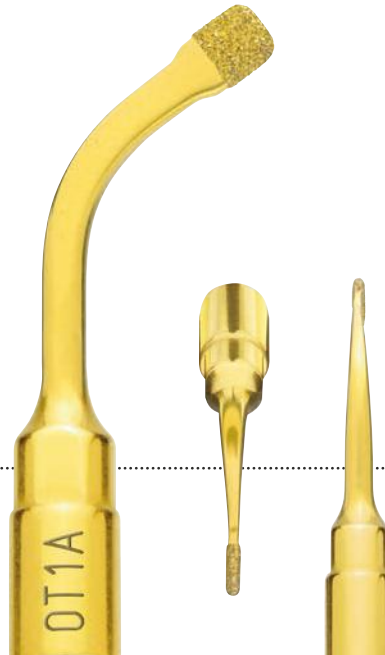


→ CUTTING ACTION

micrometric osteotomy (about 1 mm)

→ CLINICAL APPLICATION

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



diamond grain size 126 μ m



→ CUTTING ACTION

osteotomy

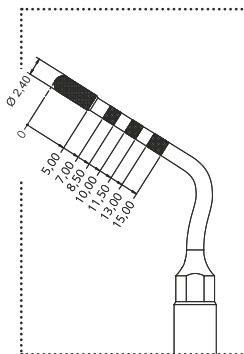
→ CLINICAL APPLICATION

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 insert

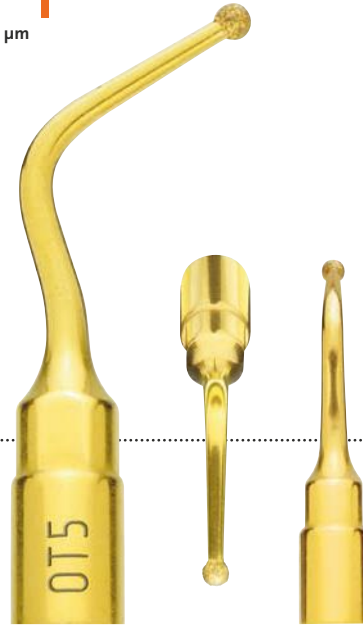
→ OT5 – OT5A – OT5B



→ 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

Ø 1.7 – diamond grain size 91 µm



→ CUTTING ACTION

high effectiveness osteotomy

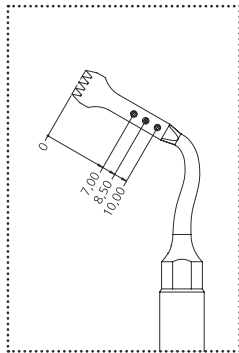
→ CLINICAL APPLICATION

osteotomy of large bone sections
during maxillofacial surgery



principal micro-saw 0.55 mm

→ OT7 – OT7A



thickness 0.55 mm



→ CUTTING ACTION

high effectiveness osteotomy

→ CLINICAL APPLICATION

all the osteotomy technique

in maxilla and mandible

- ridge expansion
- corticotomy technique
- bone block grafting



OT7S-4

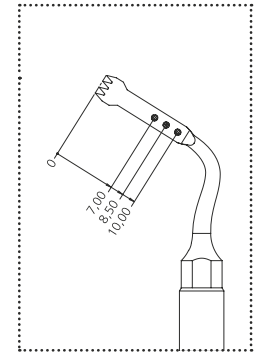
special micro-saw 0.35 mm (4 teeth)

→ CUTTING ACTION

high effectiveness and precision
osteotomy

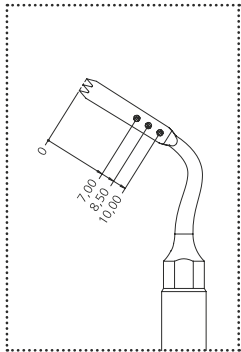
→ CLINICAL APPLICATION

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



OT7-20

micro-saw, length 20 mm

→ 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



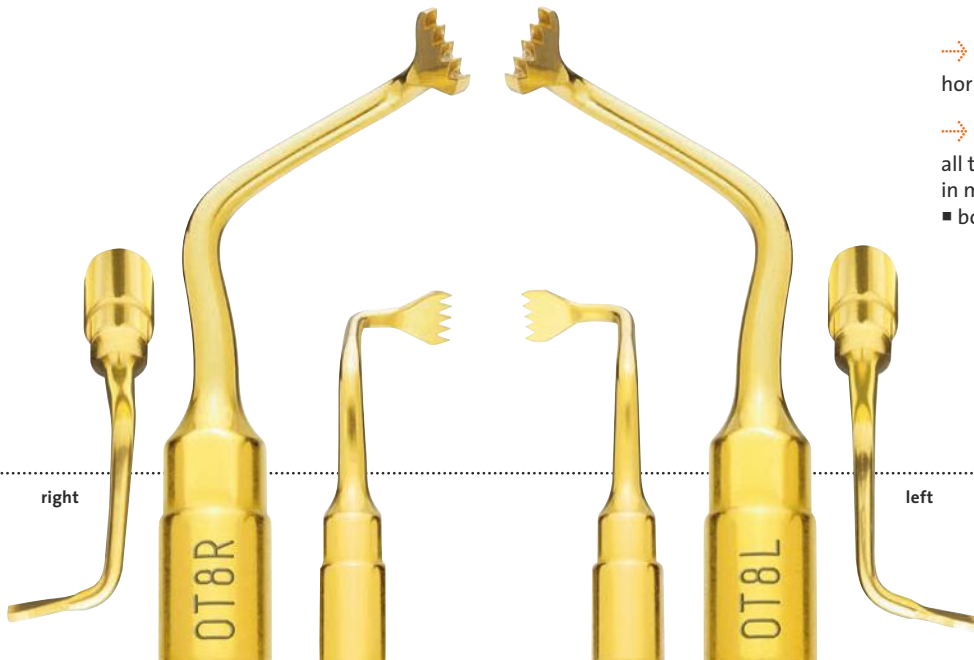
tight up this insert only
with torque wrench K8



thickness 0.6 mm

angled micro-saw 0.6 mm

OT8R – OT8L



→ CUTTING ACTION

horizontal osteotomy

→ CLINICAL APPLICATION

all the osteotomy technique
in maxilla and mandible

- bone block grafting

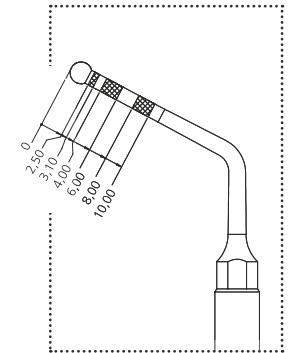


→ CUTTING ACTION

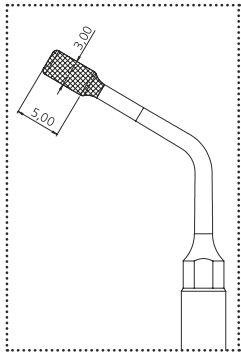
micrometric osteotomy or osteoplasty

→ CLINICAL APPLICATION

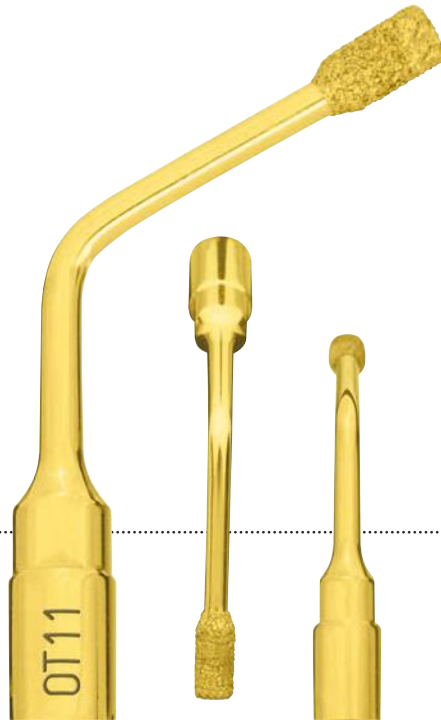
to finalize the osteotomy or osteoplasty near delicate anatomic structures; removal of the sinus basal cortex in Sinus Physiolift® procedure; insert with double irrigation to avoid overheating



Ø 2.4 – diamond grain size 151 µm



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



→ OT12

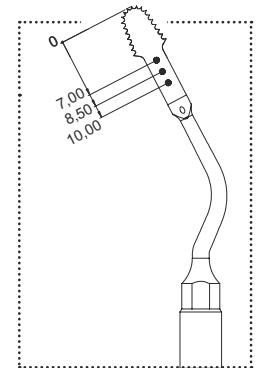
circular micro-saw 0.35 mm

→ CUTTING ACTION

high effectiveness and precision osteotomy

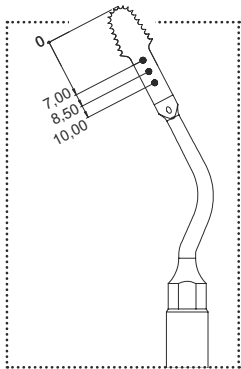
→ CLINICAL APPLICATION

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

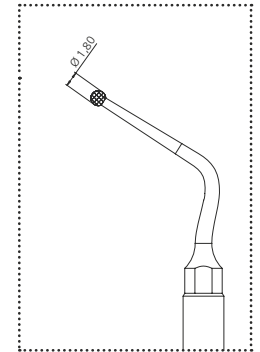
dedicated to the osteotomy
techniques where the standard
piezoelectric bone saws may have
a difficult surgical approach

→ CUTTING ACTION

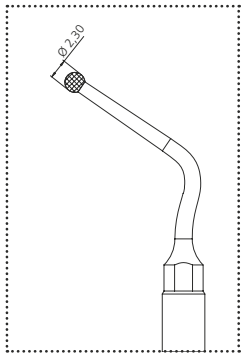
micrometric osteotomy or osteoplasty

→ CLINICAL APPLICATION

non-traumatic bone defect preparation
in resective periodontal surgery



Ø 1.8 – diamond grain size 150 µm



$\varnothing 2.3$ – diamond grain size 150 μm



→ CUTTING ACTION

micrometric osteotomy or osteoplasty

→ CLINICAL APPLICATION

non-traumatic bone defect preparation
in resective periodontal surgery

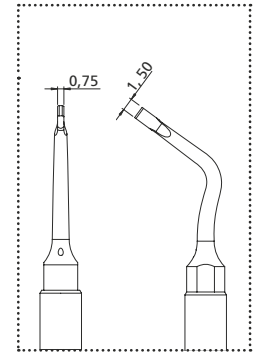


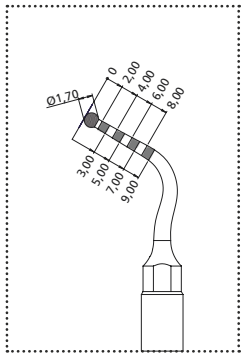
→ CUTTING ACTION

high precision osteotomy

→ CLINICAL APPLICATION

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





→ CUTTING ACTION

micrometric osteotomy or osteoplasty

→ CLINICAL APPLICATION

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

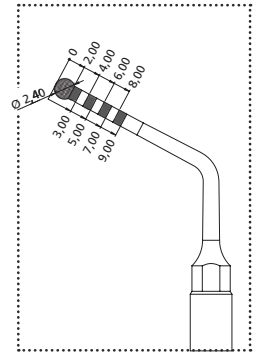
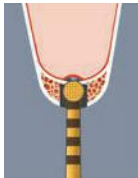


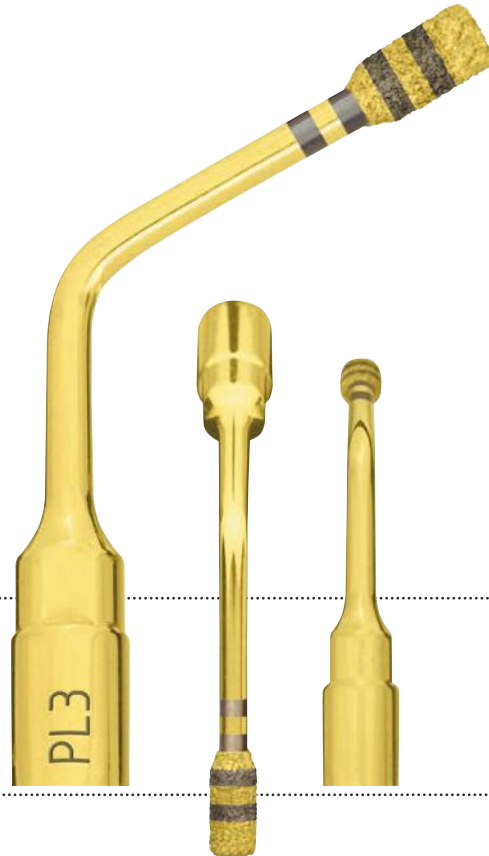
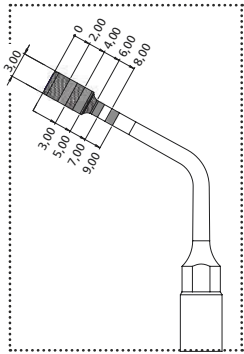
→ CUTTING ACTION

micrometric osteotomy or osteoplasty

→ CLINICAL APPLICATION

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





→ 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**
high efficiency bone osteoplasty
- **CLINICAL APPLICATION**
bone remodelling and harvesting
of bone chips





→ CUTTING ACTION

osteoplasty

→ CLINICAL APPLICATION

bone osteotomy, remodelling and
removal of inflammatory tissue

→ OP3 – OP3A

principal osteoplasty insert

→ CUTTING ACTION

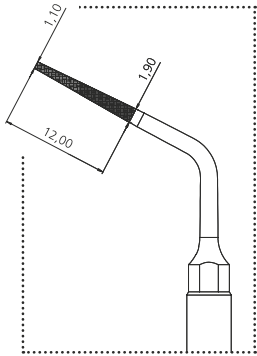
universal osteoplasty

→ CLINICAL APPLICATION

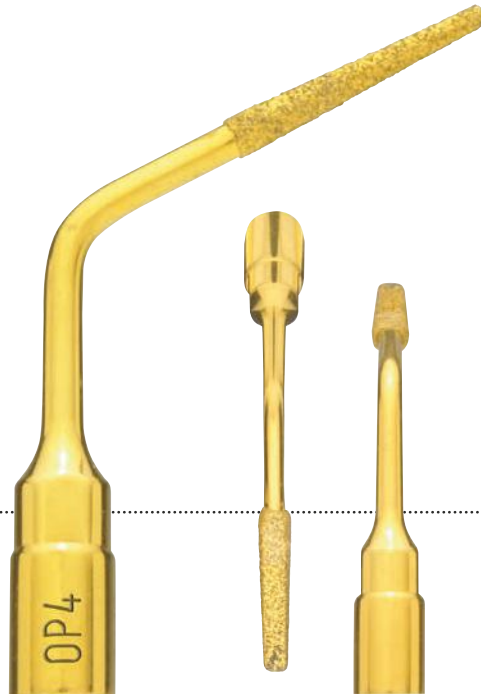
periodontal osteotomy, crown lengthening, bone chips harvesting, inflammatory tissue removal (cyst, etc.)



crown lengthening file



diamond grain size 126 µm



→ CUTTING ACTION
micro-osteoplasty

→ CLINICAL APPLICATION
interproximal osteoplasty
and root planing



→ OP5 – OP5A

root debridement insert

→ CUTTING ACTION

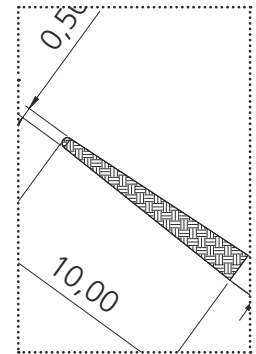
micro-osteoplasty

→ CLINICAL APPLICATION

root debridement and root planing
during resective and regenerative
periodontal surgery

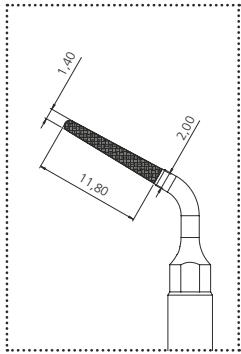


diamond grain size 90 µm



diamond grain size 30 µm





diamond grain size 126 µm



→ CUTTING ACTION

micro-root preparation

→ CLINICAL APPLICATION

root preparation in periodontal surgery



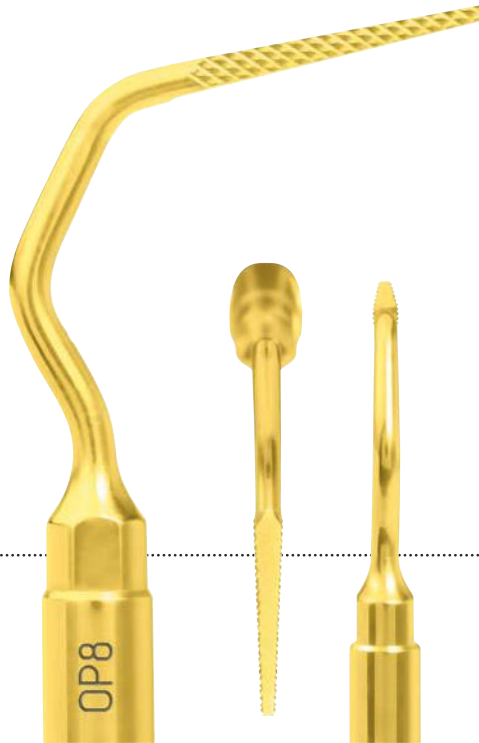
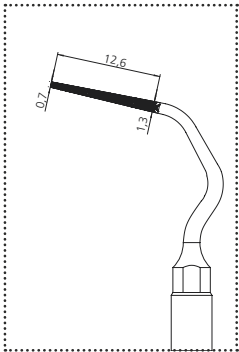
→ CUTTING ACTION

micro-osteoplasty

→ CLINICAL APPLICATION

peri-apical maxillary bone
osteotomy access, inflammatory
tissue removal





→ CUTTING ACTION
micro-osteoplasty

→ CLINICAL APPLICATION
Interproximal osteoplasty without
damaging adjacent root surfaces



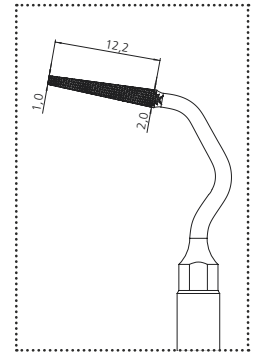
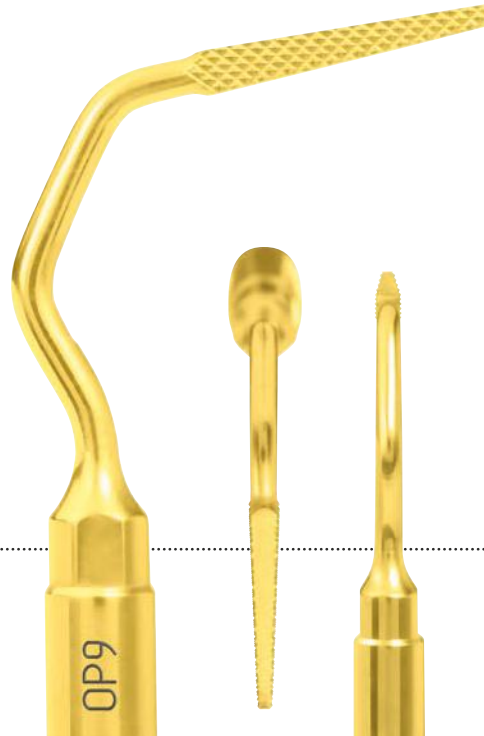
*only available for PIEZOSURGERY® 3, PIEZOSURGERY® touch and PIEZOSURGERY® white

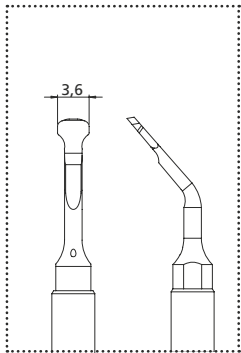
→ CUTTING ACTION

micro-osteoplasty

→ CLINICAL APPLICATION

Interproximal osteoplasty without
damaging adjacent root surfaces





→ CUTTING ACTION

universal osteoplasty

→ CLINICAL APPLICATION

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

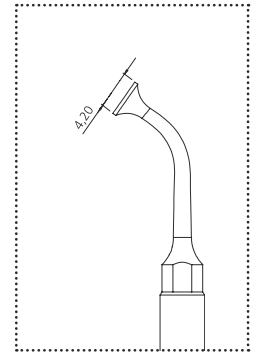


→ CUTTING ACTION

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°



→ CUTTING ACTION

non-cutting elevator of the
sinus membrane

→ CLINICAL APPLICATION

separation of the sinus membrane
in internal zones



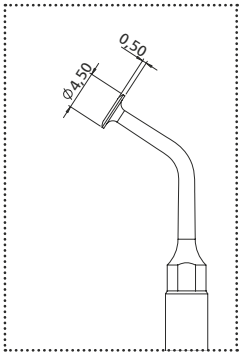
→ CUTTING ACTION

non-cutting elevator of the
sinus membrane

→ CLINICAL APPLICATION

separation of the sinus membrane
in internal zones



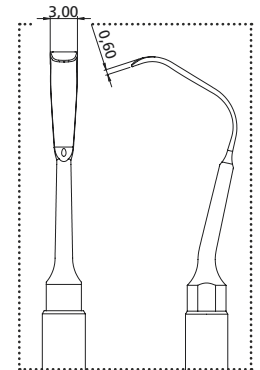


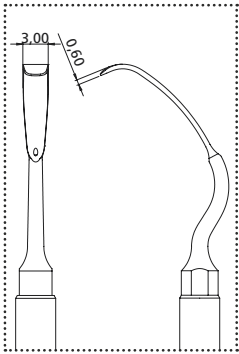
→ CUTTING ACTION
sinus membrane separator

→ 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





→ CUTTING ACTION

elevator to cut Sharpey's fibers from the endosteum

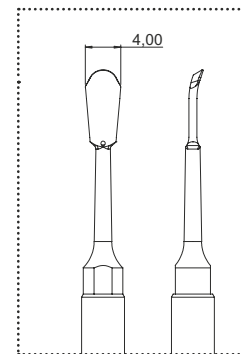
→ CLINICAL APPLICATION

sinus membrane elevation from the palatal wall

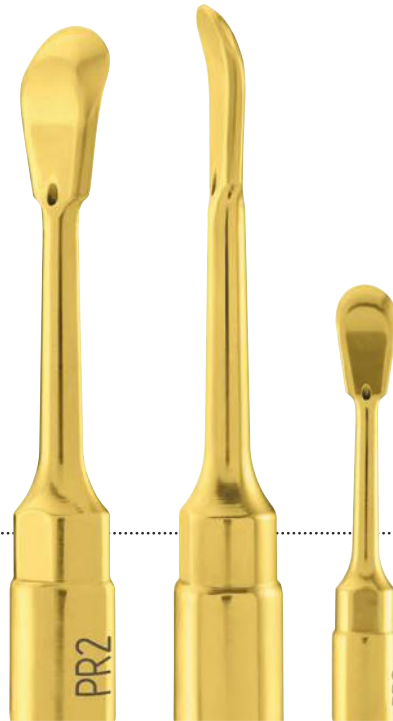
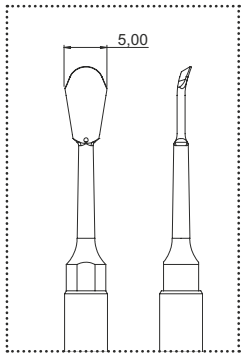


→ CUTTING ACTION
periosteum elevator

→ CLINICAL APPLICATION
subperiosteal preparation



piezoelectric raspatory, 5 mm width



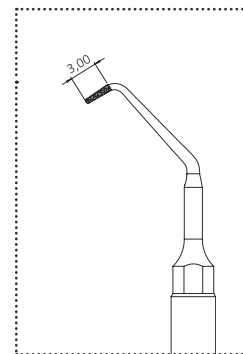
→ CUTTING ACTION
periosteum elevator

→ CLINICAL APPLICATION
subperiosteal preparation

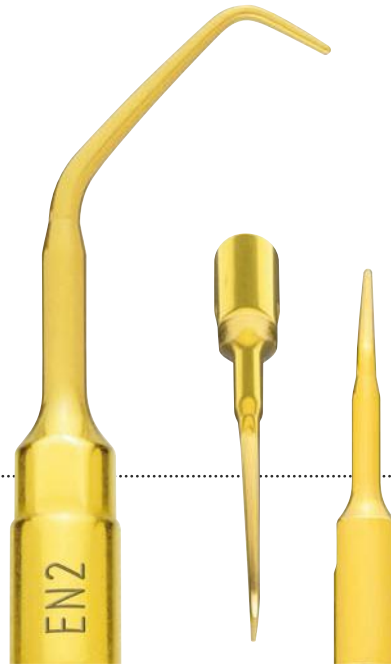


→ CUTTING ACTION
efficient canal cleaning

→ CLINICAL APPLICATION
apical root debridement



diamond grain size 30 µm

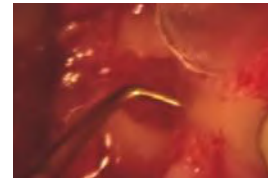


→ CUTTING ACTION

gentle canal cleaning

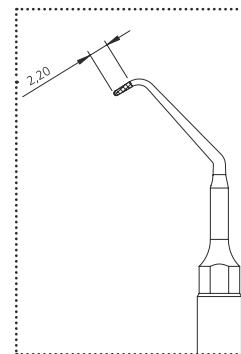
→ CLINICAL APPLICATION

gentle apical root debridement



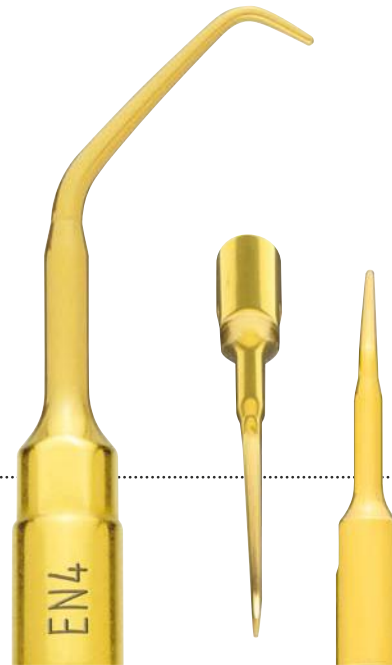
→ CUTTING ACTION
efficient canal cleaning

→ CLINICAL APPLICATION
apical root debridement



diamond grain size 30 µm

smooth endo apical debrider 2.2 mm



→ CUTTING ACTION

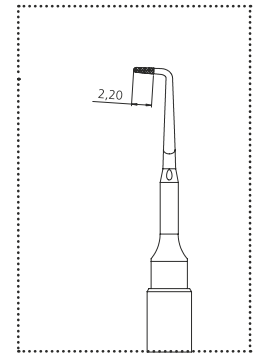
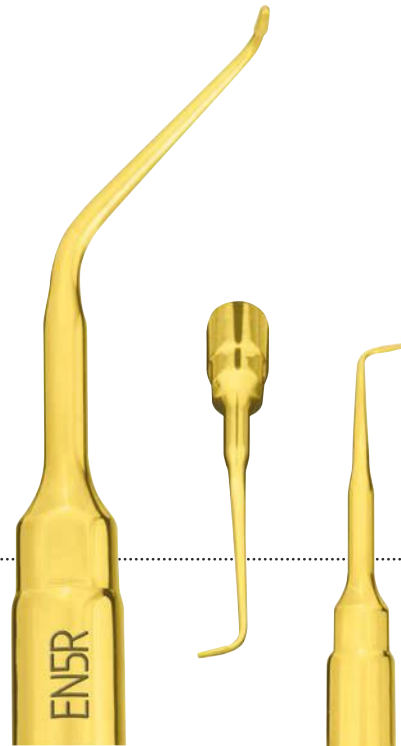
gentle canal cleaning

→ CLINICAL APPLICATION

gentle apical root debridement

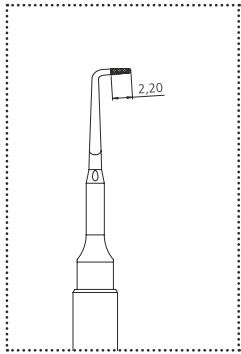
→ CUTTING ACTION
efficient canal cleaning

→ CLINICAL APPLICATION
apical root debridement

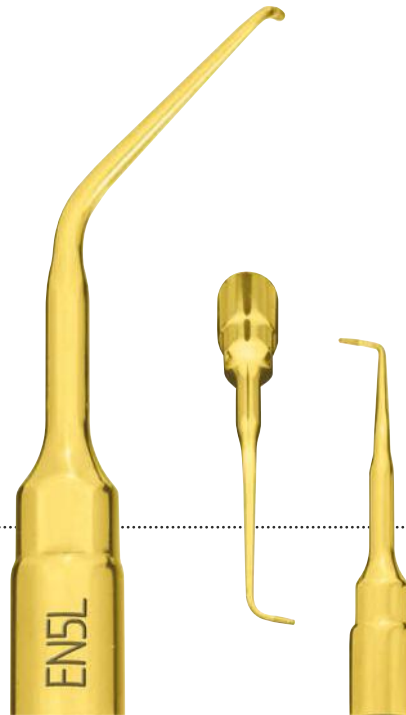


diamond grain size 30 µm

left angled, diamond-coated endo apical debrider 2.2 mm



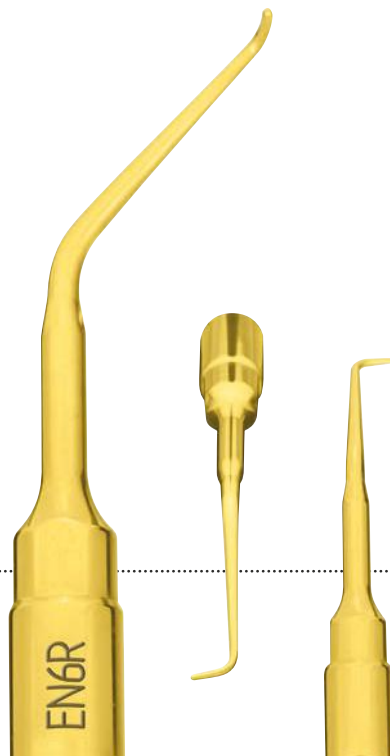
diamond grain size 30 µm



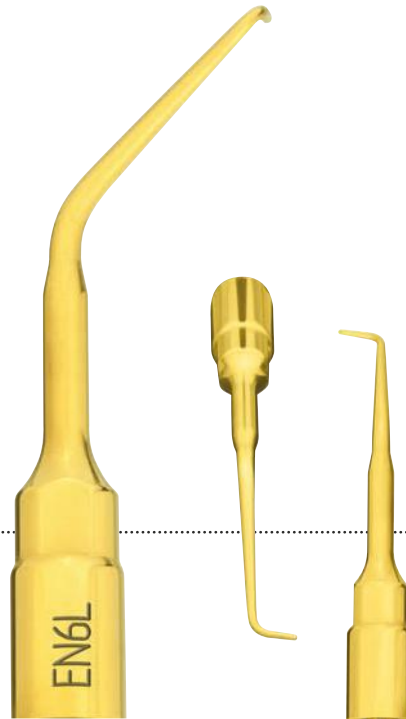
→ CUTTING ACTION
efficient canal cleaning

→ CLINICAL APPLICATION
apical root debridement

- CUTTING ACTION
efficient canal cleaning
- CLINICAL APPLICATION
apical root debridement



left angled, smooth endo apical debrider 2.2 mm



→ CUTTING ACTION
efficient canal cleaning

→ CLINICAL APPLICATION
apical root debridement

→ CUTTING ACTION

delicate osteotomy

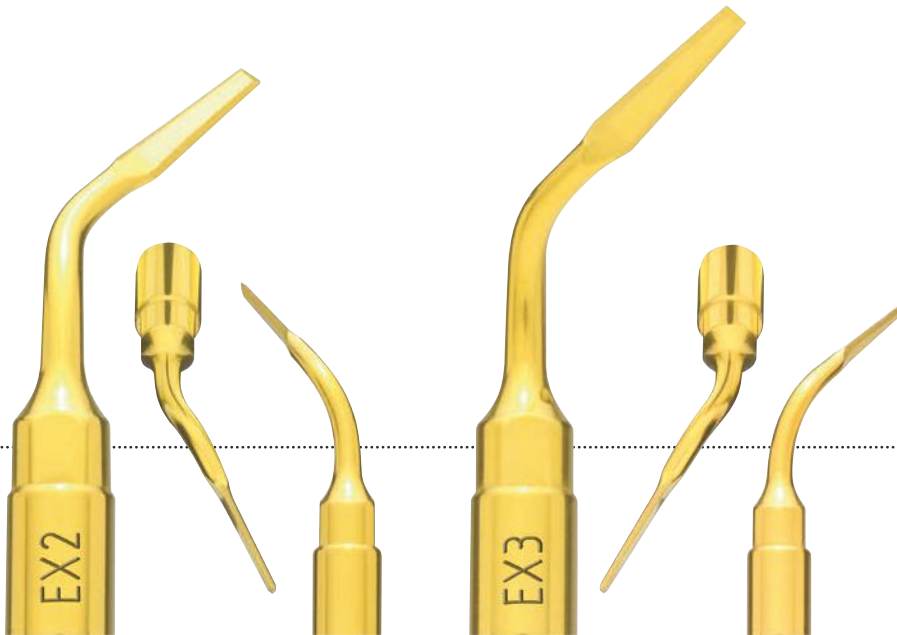
→ CLINICAL APPLICATION

to cut off the ankylosis, root fraction techniques



angled extraction scalpel

EX2 – EX3



→ CUTTING ACTION
micrometric osteotomy

→ CLINICAL APPLICATION
analogue to EX1 in the posterior regions

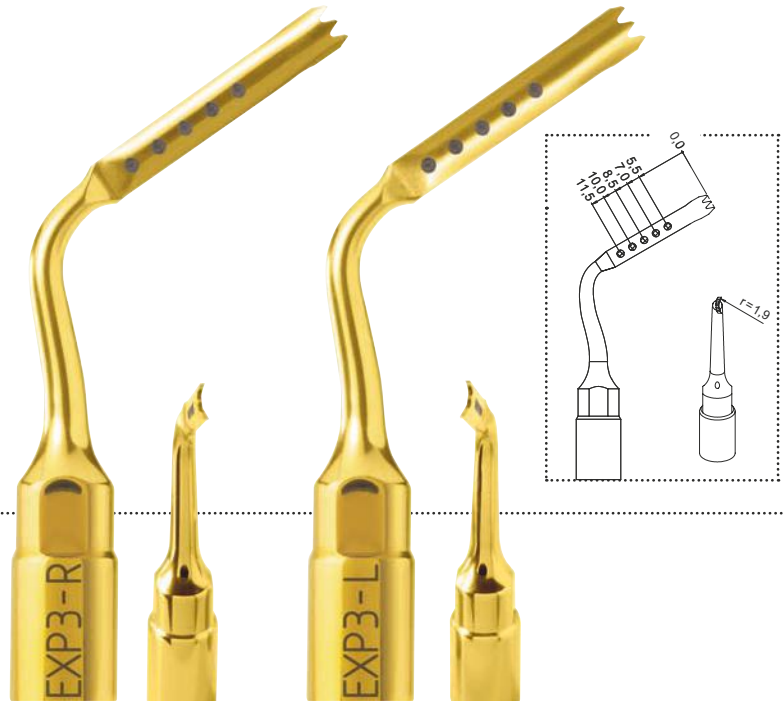


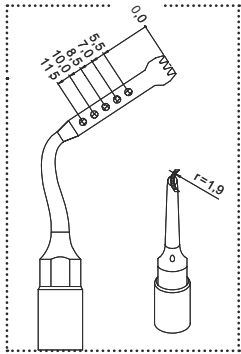
EXP3-R – EXP3-L

explantations

→ CUTTING ACTION
peri-implant osteotomy

→ CLINICAL APPLICATION
explantations





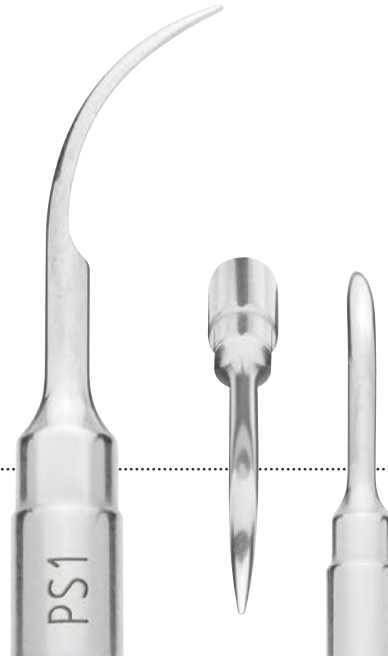
→ CUTTING ACTION
peri-implant osteotomy

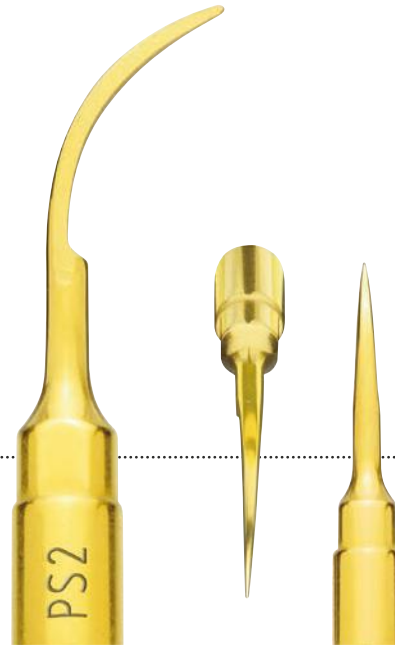
→ CLINICAL APPLICATION
explantations



→ CUTTING ACTION
gentle scaling

→ CLINICAL APPLICATION
root scaling





→ CUTTING ACTION

powerful scaling

→ CLINICAL APPLICATION

scaling and inflammatory tissue removal
fractured root apex extraction



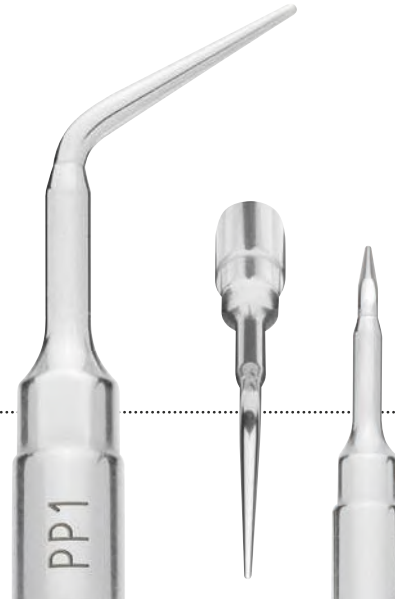
→ CUTTING ACTION

gentle scaling

→ CLINICAL APPLICATION

root scaling





→ CUTTING ACTION
root surface micro-smoothing

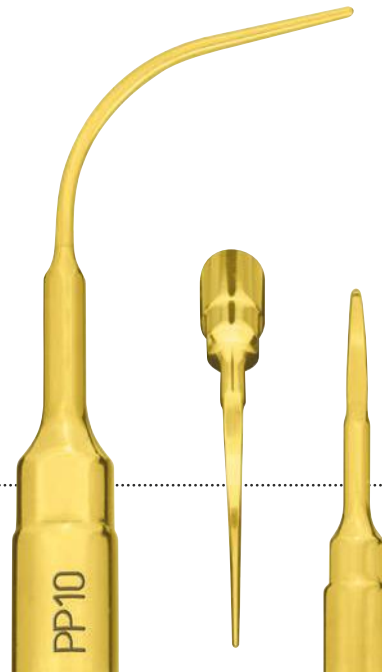
→ CLINICAL APPLICATION
root planing

→ CUTTING ACTION

root surface micro-smoothing

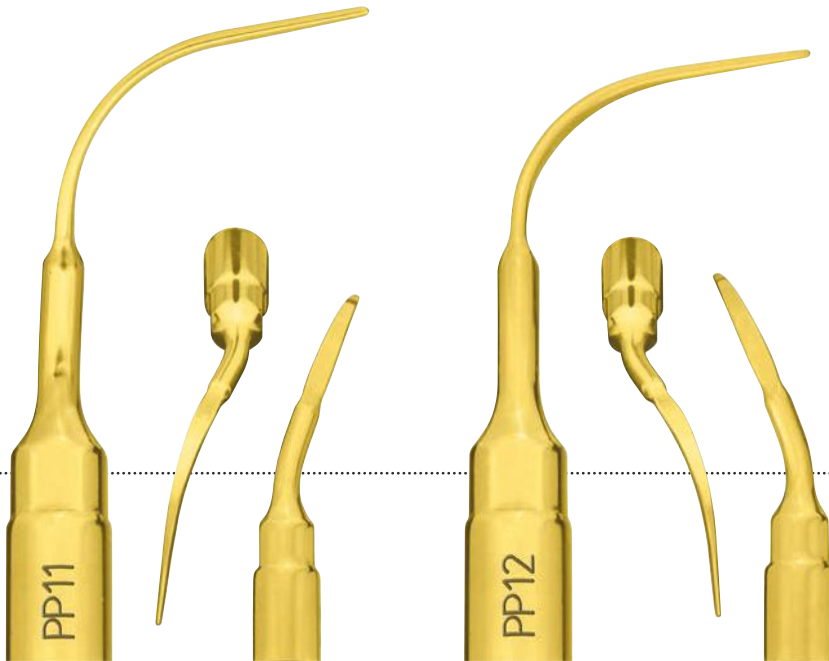
→ CLINICAL APPLICATION

gentle subgingival concretions removal



left and right angled, gentle perio anatomic insert

PP11 – PP12



- CUTTING ACTION
root surface micro-smoothing
- CLINICAL APPLICATION
gentle subgingival concretions 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 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



→ CROWN PREP TIP
TF12D60

→ VERTICAL PREPARATION TECHNIQUE

→ LENGTH 10 MM → DIAMOND COATING

diameter	D90	D60
1.2 mm	TF12D90	TF12D60
1.6 mm	TF16D90	TF16D60



→ TIP HOLDER
DB2 WITH
CROWN PREP TIPS



→ CUTTING ACTION
micro-smoothing

→ CLINICAL APPLICATION
ultrasonic finishing of the cervical margin

→ 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

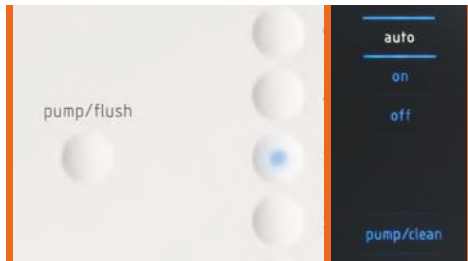
→ CROWN PREP TIP
TA14D60



ENZYMEC

enzymatic detergent

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

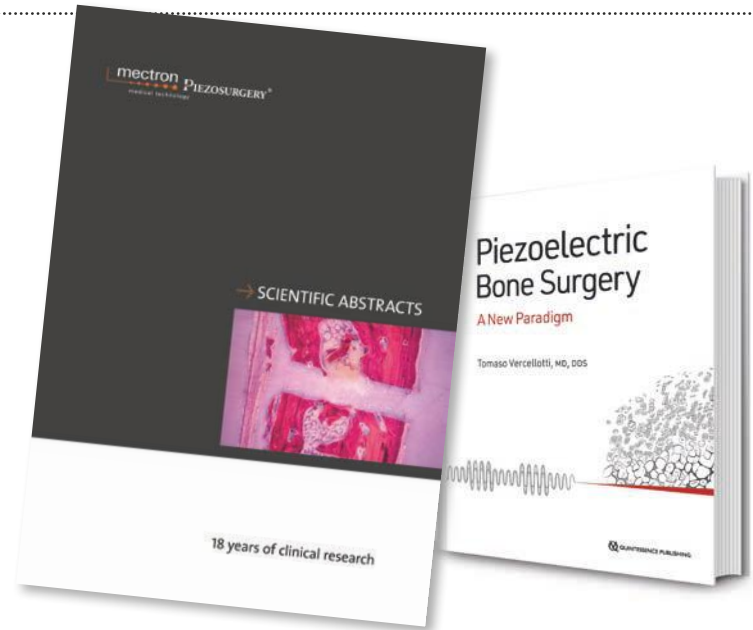


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→ PIEZOSURGERY® – MORE THAN 20 YEARS OF SUCCESSFUL SCIENTIFIC RESEARCH



→ METHOD PIEZOSURGERY®: EVIDENCE-BASED

With over 20 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. 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

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
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→ WWW.MECTRON.COM/EDUCATION

On 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.

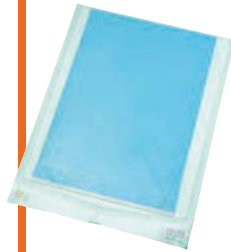
SPARE PARTS



handpiece, complete with cord



handpiece holder with LED-handpiece



protection foils



PIEZOSURGERY® insert box



torque wrench K8

→ COMMON SPARE PARTS

→ ITEM/REFERENCE NUMBER	
surgical tray	04610004
torque wrench K8	02900109
irrigation set	03230006
PIEZOSURGERY® insert box	02900111
insert tray	02900037
bone expander tray	02900107
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
kit of 8 tubes for pump	02900104
bone grafting kit (liquid flow rate reducer)	02900106
protection foils (pack of 10 sterile pieces)	03230012
footswitch (PS <i>touch</i>)	02900102
footswitch (PS <i>white</i>)	02900114
suitcase (PS <i>touch</i> and PS <i>white</i>)	04440006

→ PIEZOSURGERY® I, II AND 3

→ ITEM/REFERENCE NUMBER	
handpiece, complete with cord	03120023
handpiece holder (PSII + 3)	02900040
kit of 8 tubes for pump (PSII + 3) (handpiece cord with metal connector)	02900039
kit 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	
basic kit	01520001	PIN 2-2.4 AL	03740005	ADR7	03790002
osteotomy kit	01520010	PIN 2-3 AL	03740006	ADR16	03790003
sinus lift lateral kit	01520023	insert IM2A	03510001	ratchet	02270005
piezo lift kit	01520024	insert IM2A-15	03510015	crestal sinus elevator CS1	03920001
sinus lift kit	01520002	insert IM2P	03510002	crestal sinus elevator CS2	03920002
implant prep kit	01520008	insert IM2P-15	03510016	insert IM1 SP	03510011
implant prep kit pro	01520011	insert IM2.8A	03510025	insert IM2 SP	03510022
implant prep kit starter	01520017	insert IM2.8P	03510026	insert P2-3 SP	03510024
extraction kit	01520003	insert IM3A	03510003	physiolifter	02900097
explantation kit	01520021	insert IM3A-15	03510017	PROBE SP	03920003
periodontal kit	01520004	insert IM3P	03510004	ADM10	03790004
resective perio kit	01520022	insert IM3P-15	03510018	ADR10	03790005
retro surgical kit	01520005	insert IM3.4A	03510027	silicone tube with tube-tube connector	02900098
bone expander kit	03770001	insert IM3.4P	03510028	complete sealed tube	02900099
bone expander kit pro	03770002	insert IM4A	03510005	insert tray physiolift® (small)	02900100
bone expander kit pro s	03770005	insert IM4P	03510006	insert tray physiolift® (large)	02900101
sinus physiolift® II kit basic	03770011	insert P2-3	03510020	insert OT1	03370001
sinus physiolift® II kit pro	03770012	insert P3-4	03510021	insert OT1A	03370008
insert IM1S	03510019	expander 2.5 x 11.5	03780001	insert OT2	03370002
PIN IM1	03740002	expander 3.5 x 11.5	03780003	insert OT4	03370004
PIN IM1S	03740007	expander 4.5 x 11.5	03780005	insert OT5	03370005
PIN 2-2.4	03740003	expander 2.5 x 15	03780002	insert OT5A	03370009
PIN 2-3	03740001	expander 3.5 x 15	03780004	insert OT5B	03370010
insert IM1 AL	03510010	expander 4.5 x 15	03780006	insert OT6	03370006
PIN IM1 AL	03740004	ADM8	03790001	insert OT7	03370007

→ ITEM/REFERENCE NUMBER		→ ITEM/REFERENCE NUMBER		→ ITEM/REFERENCE NUMBER	
insert OT7A	03370011	insert OP8	03380008	insert EXP4-L	03400007
insert OT7S-4	03370014	insert OP9	03380009	insert PS1	03180001
insert OT7S-3	03370015	insert SLC	03380013	insert PS2	03180003
insert OT7-20	03370017	insert EL1	03390001	insert PS6	03180005
insert OT8R	03370012	insert EL2	03390002	insert PP1	03180002
insert OT8L	03370013	insert EL3	03390003	insert PP10	03180006
insert OT9	03370016	insert SLS	03390006	insert PP11	03180007
insert OT11	03370019	insert SLE1	03390007	insert PP12	03180008
insert OT12	03370020	insert SLE2	03390008	tipholder ICP	03570003
insert OT12S	03370021	insert PR1	03390004	tip IC1 (5 pieces)	02900112
insert OT13	03370022	insert PR2	03390005	implant cleaning set P (ICP and 5 x IC1)	01520020
insert OT14	03370023	insert EN1	02170001	crown prep kit PS (DB2, AB1 and K7)	02160010
insert SLO-H	03370025	insert EN2	02170002	tipholder DB2	03570002
insert PL1	03370026	insert EN3	02170005	key AB1	03580001
insert PL2	03370027	insert EN4	02170006	dynamometric wrench K7	02900081
insert PL3	03370028	insert EN5R	02170007	crown prep tip TA12D60	03590001
insert OP1	03380001	insert EN5L	02170008	crown prep tip TA14D60	03590002
insert OP2	03380002	insert EN6R	02170009	crown prep tip TA16D60	03590003
insert OP3	03380003	insert EN6L	02170010	crown prep tip TA12D90	03590004
insert OP3A	03380011	insert EX1	03400001	crown prep tip TA14D90	03590005
insert OP4	03380004	insert EX2	03400002	crown prep tip TA16D90	03590006
insert OP5	03380005	insert EX3	03400003	crown prep tip TA14D120	03590007
insert OP5A	03380012	insert EXP3-R	03400004	crown prep tip TA16D120	03590008
insert OP6	03380006	insert EXP3-L	03400005	Enzymec bottle (1 liter)	03900001
insert OP7	03380007	insert EXP4-R	03400006	Enzymec 4-bottle pac (4 liter)	03900002

→ APPROPRIATE SETTINGS FOR THE INSERTS



→ PIEZOSURGERY® touch

→ PIEZOSURGERY® white

→ INSERT FUNCTION

IMPLANT PREP

INSERT	FUNCTION
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
IM1 SP	implant
IM2 SP	implant
P2-3 SP	implant

→ INSERT FUNCTION

OSTEOTOMY

INSERT	FUNCTION
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

OSTEOPLASTY

INSERT	FUNCTION
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

→ INSERT FUNCTION

SINUS MEMBRANE ELEVATION

INSERT	FUNCTION
EL1	endo*
EL2	endo*
EL3	endo*
SLS	special*
SLE1	special*
SLE2	special*

PERIOSTEUM

INSERT	FUNCTION
PR1	cancellous / cortical
PR2	cancellous / cortical

ENDO RETRO

INSERT	FUNCTION
EN1	endo*
EN2	endo*
EN3	endo*
EN4	endo*
EN5R	endo*
EN5L	endo*
EN6R	endo*
EN6L	endo*

EXTRACTION

INSERT	FUNCTION
EX1	cancellous / cortical
EX2	cancellous / cortical
EX3	cancellous / cortical

EXPLANTATION

INSERT	FUNCTION
EXP3-R	special / cancellous / cortical
EXP3-L	special / cancellous / cortical
EXP4-R	special / cancellous / cortical
EXP4-L	special / cancellous / cortical

PERIO

INSERT	FUNCTION
PP1	perio
PS1	perio
PS2	perio
PS6	perio
PP10	perio
PP11	perio
PP12	perio

IMPLANT CLEANING

INSERT	FUNCTION
ICP + IC1	endo / perio

RESTORATIVE

INSERT	FUNCTION
DB2	perio special



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
IM1 SP	IMPL	IMPLANT
IM2 SP	IMPL	IMPLANT
P2-3 SP	IMPL	IMPLANT

→ INSERT MODE POWER

OSTEOTOMY

	BONE	SPONGIOUS / CORTICAL
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
OT75-3	BONE	SPECIAL*
OT75-4	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

OSTEOPLASTY

	BONE	SPONGIOUS / CORTICAL
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
SCL	BONE	SPONGIOUS / CORTICAL

→ INSERT MODE POWER

SINUS MEMBRANE ELEVATION

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

PERIOSTEUM

	BONE	SPONGIOUS / CORTICAL
PR1	BONE	SPONGIOUS / CORTICAL
PR2	BONE	SPONGIOUS / CORTICAL

ENDO RETRO

	ROOT	ENDO*
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

	BONE	SPONGIOUS / CORTICAL
EX1	BONE	SPONGIOUS / CORTICAL
EX2	BONE	SPONGIOUS / CORTICAL
EX3	BONE	SPONGIOUS / CORTICAL

EXPLANTATION

	BONE	SPECIAL / SPONGIOUS / CORTICAL
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

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

IMPLANT CLEANING

	ROOT	ENDO / PERIO
ICP + IC1	ROOT	ENDO / PERIO

RESTORATIVE

	ROOT	PERIO
DB2	ROOT	PERIO
	BONE	SPECIAL

*Maximum power permitted

→ APPROPRIATE SETTINGS FOR THE INSERTS



→ PIEZOSURGERY® II

→ INSERT MODE POWER**

IMPLANT PREP

INSERT	MODE	POWER**
IM1S	BONE	SPECIAL*
IM1 AL	BONE	3 / 2 / 1
IM2A	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
IM3A	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
IM4A	BONE	3 / 2 / 1
IM4P	BONE	3 / 2 / 1
P2-3	BONE	3 / 2 / 1
P3-4	BONE	3 / 2 / 1
IM1 SP	BONE	3 / 2 / 1
IM2 SP	BONE	3 / 2 / 1
P2-3 SP	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

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

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

* Maximum power permitted

** Power: 1 = max 2 = med 3 = min



PIEZOSURGERY®

→ INSERT MODE POWER

IMPLANT PREP

INSERT	MODE	POWER
IM1S	BOOSTED	C
IM1 AL	BOOSTED	C
IM2A	BOOSTED	C
IM2A-15	BOOSTED	C
IM2P	BOOSTED	C
IM2P-15	BOOSTED	C
IM2.8A	BOOSTED	C
IM2.8P	BOOSTED	C
IM3A	BOOSTED	C
IM3A-15	BOOSTED	C
IM3P	BOOSTED	C
IM3P-15	BOOSTED	C
IM3.4A	BOOSTED	C
IM3.4P	BOOSTED	C
IM4A	BOOSTED	C
IM4P	BOOSTED	C
P2-3	BOOSTED	C
P3-4	BOOSTED	C
IM1 SP	BOOSTED	C
IM2 SP	BOOSTED	C
P2-3 SP	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
OT75-3	BOOSTED	C
OT75-4	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

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
EN3	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

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	LOW	1

RESTORATIVE

DB2	HIGH	2-3
BOOSTED	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	L M
		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

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