MECTRON
PIEZOSURGERY® INSERTS
PIEZOSURGERY®

THE ORIGINAL PIEZOELECTRIC BONE SURGERY – EVIDENCE-BASED!
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
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

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

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

DIAMOND 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.

TITANIUM NITRIDE COATING

Each insert is gently labeled by a laser.

LABELING

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

QUALITY CHECK
### INDICATIONS

**Sinus Lift Technique**
- Crestal Approach
  - Piezo-lift
  - Sinus Physiolift
- Lateral Approach
  - Standard

**Implant Site Preparation**
- Standard
- Optional

**Mini Dental Implant Site Preparation**
- Standard
- Optional

**Ridge Expansion**
- Standard

**Periosteum Preparation**
- Standard

**Extractions**
- Standard

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**Indications**

- **PL 1** IM1 SP IM2 SP P2-3 SP OT9 CS1 CS2 PIN IM1 PIN 2-2.4 PROBE SP
- **PL 2**
- **PL 3**

**Standard**
- SLC SLO-H SLS SLE1 SLE2 OP3 OT1 EL1

**Optional**
- OT1A OT5 OT5A OT5B EL2 EL3

**Sinus Lift Technique**
- Crestal Approach
- Lateral Approach

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- Standard
- Optional

**Mini Dental Implant Site Preparation**
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- Optional

**Ridge Expansion**
- Standard

**Periosteum Preparation**
- Standard

**Extractions**
- Standard

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**Bone Expanders**
- PR1 PR2
- EX1 EX2 EX3 PS2
BASIC KIT

EQUIPPED WITH:
1 insert OT7
1 insert OT2
1 insert EX1
1 insert OP1
1 insert OP3
1 insert tray
OSTEOTOMY KIT

EQUIPPED WITH:

1 insert OT7
1 insert OT7S-4
1 insert OT7S-3
1 insert OT8R
1 insert OT8L
1 insert tray
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
PIEZOLIFT 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
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
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
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
MINI IMPLANT PREP KIT

EQUIPPED WITH:
1 insert IM1S
1 insert MDI 1.9
1 insert MDI 2.2
1 insert MDI 2.5
1 insert tray
EXTRACTION KIT

EQUIPPED WITH:
1 insert EX1
1 insert EX2
1 insert EX3
1 insert PS2
1 insert PS6
1 insert tray
EXPLANATION KIT

EQUIPPED WITH:
1 insert EXP3-R
1 insert EXP3-L
1 insert EXP4-R
1 insert EXP4-L
1 insert tray
PERIODONTAL KIT

EQUIPPED WITH:
1 insert PS2
1 insert OP5
1 insert PP1
1 insert OP3
1 insert OP3A
1 insert tray
**RESECTIVE PERIO KIT**

**EQUIPPED WITH:**
1 insert OT13  
1 insert OT14  
1 insert OP5A  
1 insert OP8  
1 insert OP9  
1 insert tray
retro surgical kit

equipped with:

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

mectron medical technology
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
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

mectron
medical technology
PIEZOSURGERY® INSERT BOX

- fully autoclavable
- perfect storage of all PIEZOSURGERY® inserts
- light, easy to use, compact and roomy
stainless steel tray with depth markings for sterilisation and storage

INSERT TRAY
IM1S

CUTTING ACTION
bone perforation

CLINICAL APPLICATION
initial pilot osteotomy

initial implant site preparation insert

diamond grain size 30 μm
alignment pins

PINS IM1, IM1S, 2-2.4, 2-3

DESCRIPTION
alignment pins, dedicated to IM1S, IM2 (Ø 2), IM3 (Ø 3), OT4 (Ø 2.4), IM1 SP

CLINICAL APPLICATION
to check preparation axis alignment
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 (Ø 2), OT4 (Ø 2.4), IM3A (Ø 3)

CLINICAL APPLICATION
to check preparation axis alignment
**CUTTING ACTION**
bone perforation

**CLINICAL APPLICATION**
pilot osteotomy in anterior region

2 mm Ø implant site preparation insert

length: 15 mm
2 mm Ø implant site preparation insert

IM2P – IM2P-15

CUTTING ACTION
bone perforation

CLINICAL APPLICATION
pilot osteotomy in posterior region
**IM2.8A**

**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
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
IM3A – IM3A-15

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

length: 15 mm
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
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

→ CUTTING ACTION
bone perforation

→ CLINICAL APPLICATION
to enlarge or to finalize the implant site preparation; insert with double irrigation to avoid overheating
IM4A

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
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
P2-3

**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

→ **CUTTING ACTION**
micrometric osteotomy

→ **CLINICAL APPLICATION**
to optimize concentricity of implant site preparation between Ø 3 and Ø 4 mm

diamond grain size 150 μm
**BONE EXPANDERS**

**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**
- Conventional expander
- Mectron expander
- Dr. Sentineri’s technique

<table>
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<tr>
<th>Size</th>
<th>2.5 x 11.5</th>
<th>3.5 x 11.5</th>
<th>4.5 x 11.5</th>
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<tbody>
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<td></td>
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</table>

*Images showing different types of expanders.*
2.5 x 15
3.5 x 15
4.5 x 15
(Ø x length, in mm)

Long adapter for ratchet
Short adapter for ratchet
Adapter for micromotor

ADR16
ADR7
ADM8

RATCHET
**DESCRIPTION**
A new 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 new 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
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.
IM1 SP

→ CUTTING ACTION
bone perforation

→ CLINICAL APPLICATION
initial osteotomy in Sinus Physiolift® technique

initial implant site preparation insert
implant site preparation insert

→ 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
CUTTING ACTION
bone perforation

CLINICAL APPLICATION
osteotomy technique for mini implants
site preparation
MDI 2.2

CUTTING ACTION
bone perforation

CLINICAL APPLICATION
osteotomy technique for mini implants
site preparation
mini dental implant insert

→ CUTTING ACTION
bone perforation

→ CLINICAL APPLICATION
osteotomy technique for mini implants
site preparation
OT1

**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 91 μm
sinus bony window osteotomy insert

→ 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 μm
CUTTING ACTION
osteotomy

CLINICAL APPLICATION
osteotome of great precision in anatomically thin structures (for example, ridge expansion, interdental corticotomies, non traumatic nasal spina)
swallow-tailed osteotome

→ CUTTING ACTION
osteotomy

→ CLINICAL APPLICATION
mandibular corticotomy, block harvesting, fragmenta osteotomy
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

**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

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Ø 1.7 – diamond grain size 91 μm

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OT5 – OT5A – OT5B
OT6

CUTTING ACTION
high effectiveness osteotomy

CLINICAL APPLICATION
osteotomy of large bone sections
during maxillofacial surgery

bony saw 0.75 mm
CUTTING ACTION
- high effectiveness osteotomy

CLINICAL APPLICATION
- all the osteotomy technique in maxilla and mandible
  - ridge expansion
  - corticotomy technique
  - bone block grafting

principal micro-saw 0.55 mm

thickness 0.75 mm

thickness 0.55 mm
OT7S-4

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 (4 teeth)
special micro-saw 0.35 mm (3 teeth)

→ 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

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

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

tight up this insert only with torque wrench K8

micro-saw, length 20 mm

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
OT9

osteoplasty and osteotomy insert

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
osteoplasty and osteotomy insert

CUTTING ACTION
micrometric osteotomy or osteoplasty

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

Ø 3.0 – diamond grain size 151 μm
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

→ 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
OT13

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
osteooplasty and osteotomy insert

- **CUTTING ACTION**
  micrometric osteotomy or osteoplasty

- **CLINICAL APPLICATION**
  non-traumatic bone defect preparation in resective periodontal surgery

Ø 2.3 – diamond grain size 150 μm
SLO-H

sinus bony window osteotomy insert

CUTTING ACTION
high precision osteotomy

CLINICAL APPLICATION
to finalize the bone window osteotomy
to gain access to the sinus membrane
osteoplasty and osteotomy insert

→ CUTTING ACTION
micrometric osteotomy or osteoplasty

→ CLINICAL APPLICATION
sinus floor reaching and safe bony ring removal during crestal sinus lift procedure (PIEZO-LIFT)
PL2

osteoplasty and osteotomy insert

➡️ **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

→ 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)
**OP1**

**CUTTING ACTION**
high efficiency bone osteoplasty

**CLINICAL APPLICATION**
bone remodelling and harvesting of bone chips

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*Piezosurgery®*
back action scalpel

→ CUTTING ACTION
osteoplasty

→ CLINICAL APPLICATION
bone osteotomy, remodelling and removal of inflammatory tissue
OP3 – OP3A

CUTTING ACTION
universal osteoplasty

CLINICAL APPLICATION
periodontal osteotomy, crown lengthening, bone chips harvesting, inflammatory tissue removal (cyst, etc.)
CUTTING ACTION
micro-osteoplasty

CLINICAL APPLICATION
interproximal osteoplasty and root planing

diamond grain size 126 μm
**OP5 – OP5A**

**CUTTING ACTION**
- micro-osteoplasty

**CLINICAL APPLICATION**
- root debridement and root planing during resective and regenerative periodontal surgery

- root debridement insert
  - diamond grain size 90 μm
- diamond grain size 30 μm
micro-root-preparation

CUTTING ACTION
micro-root preparation

CLINICAL APPLICATION
root preparation in periodontal surgery

diamond grain size 30 μm

diamond grain size 126 μm
OP7

endodontic osteoplasty insert

CUTTING ACTION
micro-osteoplasty

CLINICAL APPLICATION
peri-apical maxillary bone osteotomy access, inflammatory tissue removal
crown lengthening file / perio file

→ 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
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
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
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
**SLE1**

**CUTTING ACTION**

elevator to cut Sharpey’s fibers from the endosteum

**CLINICAL APPLICATION**

sinus membrane elevation from the sinus floor

**sinus membrane elevator**
sinus membrane elevator

**CUTTING ACTION**
elevator to cut Sharpey’s fibers from the endosteum

**CLINICAL APPLICATION**
sinus membrane elevation from the palatal wall
PR1

piezoelectric raspatory, 4 mm width

CUTTING ACTION
periosteum elevator

CLINICAL APPLICATION
subperiostal preparation
piezoelectric raspatory, 5 mm width

→ CUTTING ACTION
periosteum elevator

→ CLINICAL APPLICATION
subperiostal preparation
diamond-coated endo apical debrider 3 mm

→ CUTTING ACTION
efficient canal cleaning

→ CLINICAL APPLICATION
apical root debridement
smooth endo apical debrider 3 mm

→ CUTTING ACTION
gentle canal cleaning

→ CLINICAL APPLICATION
gentle apical root debridement
EN3

CUTTING ACTION
efficient canal cleaning

CLINICAL APPLICATION
apical root debridement

diamond-coated endo apical debrider 2.2 mm

diamond grain size 30 μm
smooth endo apical debrider 2.2 mm

→ CUTTING ACTION
gentle canal cleaning

→ CLINICAL APPLICATION
gentle apical root debridement
EN5R

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

CUTTING ACTION
efficient canal cleaning

CLINICAL APPLICATION
apical root debridement

diamond grain size 30 μm
EN6R
right angled, smooth endo apical debrider 2.2 mm

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

CUTTING ACTION
peri-implant osteotomy

CLINICAL APPLICATION
explantations
explantations

→ CUTTING ACTION
peri-implant osteotomy

→ CLINICAL APPLICATION
explantations
PS1

CUTTING ACTION
gentle scaling

CLINICAL APPLICATION
root scaling
principal periodontal scaler

→ CUTTING ACTION
powerful scaling

→ CLINICAL APPLICATION
scaling and inflammatory tissue removal
fractured root apex extraction
PS6

CUTTING ACTION
gentle scaling

CLINICAL APPLICATION
root scaling
principal root planing insert

CUTTING ACTION
root surface micro-smoothening

CLINICAL APPLICATION
root planing
PP10

gentle perio anatomic insert

→ CUTTING ACTION
root surface micro-smoothening

→ CLINICAL APPLICATION
gentle subgingival concrements removal
left and right angled, gentle perio anatomic insert

→ PP11 – PP12

→ CUTTING ACTION
root surface micro-smoothening

→ CLINICAL APPLICATION
gentle subgingival concrements removal
ICP + IC1

**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 tipholder ICP and 5 tips IC1

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

**PIEZOSURGERY®**
preparation and finishing of subgingival margins

CROWN PREP TIPS

- CROWN PREP TIPS

- TIP HOLDER DB2
  - WITH CROWN
  - PREP TIP TA14D60

- DYNAMOMETRIC WRENCH K7

- KEY AB1

- DYNAMOMETRIC WRENCH K7

- KEY AB1

- CROWN PREP TIPS

- CUTTING ACTION
  - micro-smoothening

- CLINICAL APPLICATION
  - ultrasonic finishing of the cervical margin

- LENGTH 10 MM

- DIAMOND COATING

<table>
<thead>
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<th>Diameter</th>
<th>D120</th>
<th>D90</th>
<th>D60</th>
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<tr>
<td>1.2 mm</td>
<td>TA12D90</td>
<td>TA12D60</td>
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<tr>
<td>1.4 mm</td>
<td>TA14D120</td>
<td>TA14D90</td>
<td>TA14D60</td>
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<tr>
<td>1.6 mm</td>
<td>TA16D120</td>
<td>TA16D90</td>
<td>TA16D60</td>
</tr>
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</table>
ENZYMEC

- 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
SCIENCE

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.
More than 60 videos of surgeries are on the DVD. Allowing an easy orientation about the possibilities PIEZOSURGERY® is offering.

Welcome to the PIEZOSURGERY® Academy – an independent institute for the advancement of the original PIEZOSURGERY® method. Feel free to discover the various possibilities of PIEZOSURGERY® and join one of our diverse seminars of course offered in different languages.

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 courses in your local language – you will find the contact address in the dealer list on our website.

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.
SPARE PARTS

- Handpiece holder with LED-handpiece
- Protection foils
- PIEZOSURGERY® insert box
- Torque wrench K8
COMMON SPARE PARTS

<table>
<thead>
<tr>
<th>ITEM/REFERENCE NUMBER</th>
<th>COMMON SPARE PARTS</th>
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<td>kit of 8 tubes for pump (PSII + 3)</td>
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<td>tube-tube connector</td>
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<td>footswitch (PS3)</td>
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PIEZOSURGERY® I, II AND 3

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WARNINGS

DIAMOND-COADED 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.
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**mectron**

**medical technology**
## APPROPRIATE SETTINGS FOR THE INSERTS

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### PIEZOSURGERY® touch

- **PIEZOSURGERY® touch**

### PIEZOSURGERY® white

- **PIEZOSURGERY® white**

### INSERT FUNCTION

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*Maximum power permitted
**PIEZOSURGERY® 3**

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**IMPLANT CLEANING**

| ICP + IC1          | ROOT       | ENDO / PERIO |

**RESTORATIVE**

| DB2                | ROOT       | PERIO     |

*Maximum power permitted*
### APPROPRIATE SETTINGS FOR THE INSERTS

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| OT1A | BONE SPECIAL* | 3 / 2 / 1 |
| OT2 | BONE | 3 / 2 / 1 |
| OT3 | BONE SPECIAL* | 3 / 2 / 1 |
| OT4 | BONE | 3 / 2 / 1 |
| OT5 | BONE | 3 / 2 / 1 |
| OT5A | BONE | 3 / 2 / 1 |
| OT5B | BONE SPECIAL* | 3 / 2 / 1 |
| OT6 | BONE | 3 / 2 / 1 |
| OT7 | BONE | 3 / 2 / 1 |
| OT7A | BONE SPECIAL* | 3 / 2 / 1 |
| OT7S-3 | BONE SPECIAL* | 3 / 2 / 1 |
| OT7S-4 | BONE SPECIAL* | 3 / 2 / 1 |
| OT7-20 | BONE | 3 / 2 / 1 |
| OT8 | BONE | 3 / 2 / 1 |
| OT8A | ROOT SPECIAL* | 3 / 2 / 1 |
| OT9 | BONE | 3 / 2 / 1 |
| OT10 | BONE | 3 / 2 / 1 |
| OT11 | BONE | 3 / 2 / 1 |
| OT12 | BONE | 3 / 2 / 1 |
| OT12S | BONE | 3 / 2 / 1 |
| PL1 | BONE SPECIAL* | 3 / 2 / 1 |
| PL2 | BONE SPECIAL* | 3 / 2 / 1 |
| PL3 | BONE SPECIAL* | 3 / 2 / 1 |

| SINEUS MEMBRANE ELEVATION |       |         |
| EL1 | ROOT | ENDODONTIC |
| EL2 | ROOT | ENDODONTIC |
| EL3 | ROOT | ENDODONTIC |
| SLS | BONE | SPECIAL 1 |
| SLE1 | BONE | SPECIAL 1 |
| SLE2 | BONE | SPECIAL 1 |

| PERIOSTEUM |       |         |
| PR1 | BONE | 3 / 2 / 1 |
| PR2 | BONE | 3 / 2 / 1 |

| ENDODONTOLOGY |       |         |
| EN1 | ROOT | ENDODONTIC |
| EN2 | ROOT | ENDODONTIC |
| EN3 | ROOT | ENDODONTIC |
| EN4 | ROOT | ENDODONTIC |
| EN5R | ROOT | ENDODONTIC |
| EN5L | ROOT | ENDODONTIC |
| EN6R | ROOT | ENDODONTIC |
| EN6L | ROOT | ENDODONTIC |

| EXTRATION |       |         |
| EX1 | BONE | 3 / 2 / 1 |
| EX2 | BONE | 3 / 2 / 1 |
| EX3 | BONE SPECIAL | 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 | PERIODONTAL |
| PS1 | ROOT | PERIODONTAL |
| PS2 | ROOT | PERIODONTAL |
| PS3 | ROOT | PERIODONTAL |
| PS4 | ROOT | PERIODONTAL |
| PS5 | ROOT | PERIODONTAL |
| PP10 | ROOT | PERIODONTAL |
| PP11 | ROOT | PERIODONTAL |
| PP12 | ROOT | PERIODONTAL |

| IMPLANT CLEANING |       |         |
| ICP + ICI | ROOT ** | ENDODONTIC / PERIODONTAL |

| RESTORATIVE |       |         |
| DB2 | ROOT | PERIODONTAL |

* Maximum power permitted

** Power: 1 = max 2 = med 3 = min
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*Only crestal cortical* for low bone density (L), medium bone density (M), and hard bone density (H).