MECTRON
ULTRASONIC INSERTS
ULTRASONIC INSERTS

A LARGE VARIETY OF APPLICATIONS

Scaling, perio, endo, restorative — mectron offers a wide range of applications.

mectron’s high-quality technique guarantees maximum treatment power and utmost security in each single unit.

This remarkable quality is the result of the successful combination of fine electronic concept and a special tips design.
→ COMBI touch
→ MICROPIEZO S
→ MULTIPIEZO touch
→ MULTIPIEZO PRO
→ COMPACT PIEZO LED
→ COMPACT PIEZO P2K
Mectron offers an unequaled variety of inserts – for every indication, every treatment, and every situation you will face in your daily practice. More than 45 different inserts are available.
DYNAMOMETRIC TORQUE WRENCH K10

DYNAMOMETRIC TORQUE WRENCH K10 — PROTECTS YOUR HANDPIECE AND INSERTS

- sterilisable
- every insert is supplied with its own torque wrench
SET MAINTENANCE

EQUIPPED WITH:
1 insert S1
1 insert S2
1 insert S5
1 insert P2
1 insert P10
5 torque wrenches K10
SET SCALING

EQUIPPED WITH:
- 1 insert S1
- 1 insert S2
- 1 insert S3
- 1 insert S4
- 1 insert S5
- 5 torque wrenches K10
SET PERIO MAINTENANCE

EQUIPPED WITH:
- 1 insert P10
- 1 insert P11
- 1 insert P12
- 1 insert P13
- 1 insert P14
- 5 torque wrenches K10
SET PERIO TREATMENT

EQUIPPED WITH:
- 1 insert S1-S
- 1 insert P2
- 1 insert P15
- 1 insert P16R
- 1 insert P16L
- 5 torque wrenches K10
SET IMPLANT CLEANING

EQUIPPED WITH:
1 insert ICS
1 torque wrench K10
5 Implant cleaning tips IC1
EQUIPPED WITH:
1 file holder E1 120°
1 file holder E2 90°
6 NiTi-files ISO 15, 27 mm
6 NiTi-files ISO 20, 27 mm
6 NiTi-files ISO 25, 27 mm
6 NiTi-files ISO 15, 31 mm
6 NiTi-files ISO 20, 31 mm
6 NiTi-files ISO 25, 31 mm
1 wrench K1
1 wrench for endo files
SET ENDO REVISION

EQUIPPED WITH:
- 1 insert ER1
- 1 insert ER2
- 1 insert ER3
- 1 insert ER4
- 1 insert ER5
SET ENDO RETRO

EQUIPPED WITH:
1 insert R1
1 insert R2
1 insert R3
1 insert R4
1 insert R5
SCALING INSERTS

**S1**

- **IDENTIFICATION**
  - Scaling

- **MORPHOLOGY**
  - Universal curette with semicircular diameter

- **SURFACE**
  - Brightly polished medical grade stainless steel

- **TREATMENT**
  - For considerable tartar removal
IDENTIFICATION
perio/scaling

MORPHOLOGY
long universal curette with triangulated slightly curved surface

SURFACE
brightly polished medical grade stainless steel

TREATMENT
for supragingival tartar removal and subgingival concrements and biofilm elimination
SCALING INSERTS

S2

- **IDENTIFICATION**
  - Scaling

- **MORPHOLOGY**
  - Universal curette with triangulated, slightly curved surface

- **SURFACE**
  - Brightly polished medical grade stainless steel

- **TREATMENT**
  - Efficient in the interdental spaces and posterior surfaces
SCALING INSERTS

IDENTIFICATION
scaling

MORPHOLOGY
flat, with rounded edges

SURFACE
brightly polished medical grade stainless steel

TREATMENT
for considerable supragingival tartar removal
SCALING INSERTS

IDENTIFICATION
scaling

MORPHOLOGY
universal curette with 45° angled, triangled and slightly curved surface

SURFACE
brightly polished medical grade stainless steel

TREATMENT
for tartar removal on mesial and distal interdental surfaces in the posterior area
IDENTIFICATION
scaling

MORPHOLOGY
similar shape to S1 insert
but longer and thinner

SURFACE
brightly polished medical grade stainless steel

TREATMENT
for gentle supra- and subgingival tartar removal and for gingivitis
IDENTIFICATION
scaling

MORPHOLOGY
contra-angled universal curette with semicircular diameter

SURFACE
brightly polished medical grade stainless steel

TREATMENT
powerful insert (twice the power of S1 insert) for considerable tartar removal
SCALING HIGH EFFICIENCY INSERTS

IDENTIFICATION
scaling

MORPHOLOGY
contra-angled universal curette with
triangled, slightly curved surface

SURFACE
brightly polished medical grade stainless steel

TREATMENT
powerful insert (twice the power of
S2 insert) efficient in the interdental
spaces and posterior surfaces
SCALING HIGH EFFICIENCY INSERTS

S8

IDENTIFICATION
scaling

MORPHOLOGY
contra-angled, flat working surface with round edges

SURFACE
brightly polished medical grade stainless steel

TREATMENT
powerful insert (twice the power of S3 insert) for considerable supragingival tartar removal
PERIO UNIVERSAL INSERTS

-> IDENTIFICATION
  perio

-> MORPHOLOGY
  long, straight working tip with a circular surface

-> SURFACE
  brightly polished medical grade stainless steel

-> TREATMENT
  for concrements and biofilm removal from root surfaces
PERIO UNIVERSAL INSERTS

IDENTIFICATION
perio

MORPHOLOGY
curved working tip with a circular surface

SURFACE
brightly polished medical grade stainless steel

TREATMENT
for concrements and biofilm removal from root surfaces

mectron medical technology
PERIO UNIVERSAL INSERTS

→ IDENTIFICATION
perio

→ MORPHOLOGY
straight long shaft, short working tip with a circular surface

→ SURFACE
brightly polished medical grade stainless steel

→ TREATMENT
for concrements and biofilm removal in furcations
IDENTIFICATION
perio

MORPHOLOGY
extra long, straight working tip with a circular surface

SURFACE
brightly polished medical grade stainless steel

TREATMENT
for concrements and biofilm removal from root surfaces
PERIODONTAL INSERTS

IDENTIFICATION
perio

MORPHOLOGY
extra long, curved working tip with a circular surface

SURFACE
brightly polished medical grade stainless steel

TREATMENT
for concrements and biofilm removal from root surfaces
IDENTIFICATION
perio

MORPHOLOGY
right (inclination of 15°) curved insert with round tip

SURFACE
brightly polished medical grade stainless steel

TREATMENT
for gentle subgingival concrements removal
IDENTIFICATION
perio

MORPHOLOGY
left (inclination of 15°) curved insert with round tip

SURFACE
brightly polished medical grade stainless steel

TREATMENT
for gentle subgingival concrements removal
IDENTIFICATION
perio

MORPHOLOGY
right (inclination of 15°) curved insert
with spherical (Ø = 0.8 mm) round tip

SURFACE
brightly polished medical grade stainless steel

TREATMENT
for concrements and biofilm removal
in furcations and concavities
IDENTIFICATION
perio

MORPHOLOGY
left (inclination of 15°) curved insert with spherical (Ø = 0.8 mm) round tip

SURFACE
brightly polished medical grade stainless steel

TREATMENT
for concrements and biofilm removal in furcations and concavities
IDENTIFICATION
perio

MORPHOLOGY
universal curette shape with round surface

SURFACE
brightly polished medical grade stainless steel

TREATMENT
P16R

IDENTIFICATION
perio

MORPHOLOGY
right angled periodontal curette

SURFACE
brightly polished medical grade stainless steel

TREATMENT
subgingival concrements and biofilm removal from furcations and deep pockets. Recommended for the treatment of molars and premolars.
IDENTIFICATION
perio

MORPHOLOGY
left angled periodontal curette

SURFACE
brightly polished medical grade stainless steel

TREATMENT
subgingival concrements and biofilm removal from furcations and deep pockets. Recommended for the treatment of molars and premolars.
→ INSERT FOR IMPLANT CLEANING – MAXIMAL TREATMENT EFFICIENCY WITH THE HIGHEST PATIENT COMFORT

→ tip IC1 – 100% PEEK (high tech plastics) – for the maximum respect of the implant surface
→ the special shape of the tipholder ICS allows an optimal access and a perfect view even in posterior regions
→ tipholder ICS and tip IC1 are both sterilisable and reusable

IMPLANT CLEANING INSERTS

IMPLANT CLEANING SET S
The set consists of a tipholder ICS and 5 tips IC1
IDENTIFICATION
perio

MORPHOLOGY
102° angled tipholder with conical PEEK tip (working length 10 mm, Ø apical 0.8 mm, Ø coronal 2 mm)

SURFACE
brightly polished medical grade stainless steel for tipholder ICS and 100% PEEK for IC1

TREATMENT
efficient and gentle cleaning of implants and restorations

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

MORPHOLOGY
endo files holder 120°

SURFACE
titanium nitride coat

TREATMENT
front teeth and premolars treatment
ENDO INSERTS

IDENTIFICATION
endo

MORPHOLOGY
endo files holder 90°

SURFACE
titanium nitride coat

TREATMENT
molars treatment
ENDO FILES

NITI-FILES FOR ULTRASONIC UNITS

ISO 15

ISO 20

ISO 25

27 MM LENGTH
mectron endo files allow a fast root canal preparation for the consequent tridimensional filling treatment.

The liquid irrigation activated by the ultrasonic system arises a double effect:
- the root canal disinfection allowed by a bactericidal effect thanks to the temperature increase of the irrigation liquid
- debris removal (smear layer) generated by an acoustic streaming outcome

→ 31 MM LENGTH
ENDO REVISION
WITH ER INSERTS

Exposure and removal of root pins, fast and effective removal of calcification in the coronal third of the root, removal of fractured root inserts – the ER inserts cover the complete spectrum of endodontic revision treatment.
IDENTIFICATION
endo revision

MORPHOLOGY
angled shaft with small, spherical (Ø 1.7 mm) and D30 diamond coated tip

SURFACE
titanium nitride coat

TREATMENT
exposure of root canal pins
ENDO REVISION INSERTS

→ IDENTIFICATION
endo revision

→ MORPHOLOGY
angled insert with 0.7 mm Ø, working length up to 10 mm, the last 5 mm D30 diamond coated

→ SURFACE
titanium nitride coat

→ TREATMENT
location of concealed or calcified root canal entrances, removal of restoration materials, calcification and fractured inserts in the coronal third of the root canal
→ IDENTIFICATION
endo revision

→ MORPHOLOGY
angled insert with 0.6 mm Ø, working length up to 10 mm, the last 5 mm D30 diamond coated

→ SURFACE
titanium nitride coat

→ TREATMENT
presentation of calcified root canals entrances, removal of root elements and fractured inserts in the coronal third of the root canal
**IDENTIFICATION**
endo revision

**MORPHOLOGY**
angled insert with 0.6 mm Ø, working length up to 20 mm, the last 5 mm D30 diamond coated

**SURFACE**
titanium nitride coat

**TREATMENT**
presentation of calcified root canals entrances, removal of root elements and fractured inserts in the coronal third of the root canal
IDENTIFICATION
endo revision

MORPHOLOGY
angled insert with 0.5 mm Ø,
working length up to 24 mm

SURFACE
titanium nitride coat

TREATMENT
removal of fractured inserts in the medial
and apical third of the root canal
ENDO RETRO INSERTS – MINIMALLY INVASIVE RETROGRADE ROOT CANAL PREPARATION

Endo retro inserts assure a satisfying solution to the root canal access issue. Their thin and 90° angled structure allows a conservative cut through a minimum wide bone window.

These advantages facilitate wound healing and spare the patient useless pain.
IDENTIFICATION
endo retro

MORPHOLOGY
curved insert with a conical round working tip

SURFACE
titanium nitride coat

TREATMENT
root canal cleaning
IDENTIFICATION
endo retro

MORPHOLOGY
long, straight insert with 90° angled working tip

SURFACE
titanium nitride coat

TREATMENT
root canal cleaning in the frontal area
IDENTIFICATION
endo retro

MORPHOLOGY
angled shaft, with 90° angled working tip

SURFACE
titanium nitride coat

TREATMENT
root canal cleaning in the frontal area
IDENTIFICATION
endo retro

MORPHOLOGY
angled shaft, with 90° right angled working tip

SURFACE
titanium nitride coat

TREATMENT
root canal cleaning in the molar area
IDENTIFICATION
endo retro

MORPHOLOGY
angled shaft, with 90° left angled working tip

SURFACE
titanium nitride coat

TREATMENT
root canal cleaning in the molar area
IDENTIFICATION
endo retro

MORPHOLOGY
angled shaft, with 90° angled working tip and fine diamond coating (D30)

SURFACE
titanium nitride coat

TREATMENT
root canal cleaning in the frontal area
IDENTIFICATION
endo retro

MORPHOLOGY
angled shaft, with 90° right angled working tip and fine diamond coating (D30)

SURFACE
titanium nitride coat

TREATMENT
root canal cleaning in the molar area
IDENTIFICATION
endo retro

MORPHOLOGY
angled shaft, with 90° left angled working tip and fine diamond coating (D30)

SURFACE
titanium nitride coat

TREATMENT
root canal cleaning in the molar area
Even if the primary objective of dentistry is the preservation of natural teeth, sometimes extractions cannot be avoided. In these cases, maximum safety is the most important thing during treatment.

The specially shaped inserts ME1, ME2 and ME3 – with a blade thickness of only 0.35 mm – perfectly fulfill the anatomical demands of non-surgical extractions. They offer maximum intra-operative sensitivity, allowing a great preservation of alveolar bone and periodontal tissues. Furthermore, the physiological solution guarantees maximum visibility thanks to the cavitation effect which leads to a temporary hemostasis of blood vessels.
IDENTIFICATION
extractions

MORPHOLOGY
double-edged blade with a thickness of only 0.35 mm

SURFACE
titanium nitride coat

TREATMENT
atraumatic teeth removal
**ME2**

**IDENTIFICATION**
extractions

**MORPHOLOGY**
left angled, double-edged blade with a thickness of only 0.35 mm

**SURFACE**
titanium nitride coat

**TREATMENT**
atraumatic teeth removal

*EXCLUSIVE FOR UNITS WITH PULSE MODE*

*not available in the United States*
EXCLUSIVE FOR UNITS WITH PULSE MODE

IDENTIFICATION
extractions

MORPHOLOGY
right angled, double-edged blade with a thickness of only 0.35 mm

SURFACE
titanium nitride coat

TREATMENT
atraumatic teeth removal

* not available in the United States
CROWN PREP TIPS

CROWN PREP TIPS — ATRAUMATIC AND PRECISE

The crown prep tips are dedicated to the preparation and finishing of subgingival margins. Due to the particular morphology, the tip could be used in contact with the margin without damaging the surrounding soft tissues. The preparation margin could be positioned subgingivally giving more comfort to the patient.

The special shape of the tipholder allows an optimal view of the preparation field. The tipholder brings the crown prep tips to an elliptic movement and enables therefore a circular preparation of the tooth.
CROWN PREP TIPS

→ dynamometric wrench K7
→ key AB1

→ crown prep tip TF12D60

→ VERTICAL PREPARATION TECHNIQUE

LENGTH 10 MM DIAMOND COATING

<table>
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<tr>
<th>diameter</th>
<th>D90</th>
<th>D60</th>
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<tbody>
<tr>
<td>1.2 mm</td>
<td>TF12D90</td>
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<tr>
<td>1.6 mm</td>
<td>TF16D90</td>
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→ CHAMFER TECHNIQUE

LENGTH 10 MM DIAMOND COATING

<table>
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<tr>
<th>diameter</th>
<th>D120</th>
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<td>1.2 mm</td>
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<td>1.4 mm</td>
<td>TA14D120</td>
<td>TA14D90</td>
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<tr>
<td>1.6 mm</td>
<td>TA16D120</td>
<td>TA16D90</td>
<td>TA16D60</td>
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</tbody>
</table>

→ tip holder DB1 with crown prep tips

→ crown prep tip TA14D60
→ IDENTIFICATION
cavity margin

→ MORPHOLOGY
angled shaft with torpedo shaped working tip,
Ø 1.8 mm, medium diamond coating (D91)

→ SURFACE
titanium nitride coat

→ TREATMENT
preparation of the crown core
and the crown margin
IDENTIFICATION
Cavity margin

MORPHOLOGY
Angled shaft with torpedo shaped working tip, Ø 1.8 mm, fine diamond coating (D30)

SURFACE
Titanium nitride coat

TREATMENT
Fine finishing of the crown core and the crown margin
IDENTIFICATION
- cavity margin

MORPHOLOGY
- angled shaft with torpedo shaped working tip,
  Ø 1.5 mm, medium diamond coating (D91)

SURFACE
- titanium nitride coat

TREATMENT
- preparation of the crown core
  and the crown margin
IDENTIFICATION
cavity margin

MORPHOLOGY
angled shaft with torpedo shaped working tip,
Ø 1.5 mm, fine diamond coating (D30)

SURFACE
titanium nitride coat

TREATMENT
fine finishing of the crown core
and the crown margin
RESTORATIVE INSERTS

D1

IDENTIFICATION
restorative

MORPHOLOGY
spherical tip

SURFACE
titanium nitride coat

TREATMENT
- amalgam condensation in class I, II and V preparations
- gold fillings burnishing
IDENTIFICATION
restorative

MORPHOLOGY
cylindrical tip

SURFACE
titanium nitride coat

TREATMENT
- amalgam condensation in class I, II and V preparations
- crowns and bridges removal
RESTORATIVE INSERTS

→ IDENTIFICATION
  restorative

→ MORPHOLOGY
  comparable to a manual spreader

→ SURFACE
  titanium nitride coat

→ TREATMENT
  lateral condensation of guttapercha
RESTORATIVE INSERTS

IDENTIFICATION
restorative

MORPHOLOGY
rounded working tip

SURFACE
titanium nitride coat

TREATMENT
crowns, bridges and metal points removal
### APPROPRIATE INSERT SETTINGS

<table>
<thead>
<tr>
<th>Function</th>
<th>Endo</th>
<th>Perio/Scaler</th>
<th>Restorative Prosthetics</th>
<th>Power</th>
<th>Power</th>
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→ MULTIPIEZO PRO
→ MULTIPIEZO touch
→ MULTIPIEZO white

→ COMBI touch
→ MICROPIEZO
→ COMBI

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Image of dental equipment and settings.

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74
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*it is recommended the use of „soft mode“ function
**can be used with or without „soft mode“ function
***not available in the United States and in Italy
### ITEM/REFERENCE NUMBER

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* equipped with: ICS and 5 x IC1
** equipped with: AB1, DB1 + K7
Ultrasonic inserts wear out the same as hand inserts. Regularly check your inserts by means of the erosion tip card. Whenever your inserts are shorter than the orange hatched line, their performance is 50% less than the initial one. Such inserts should be quickly replaced.
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