

mectron

 **MECTRON**
ULTRASONIC INSERTS



ULTRASONIC INSERTS

A LARGE VARIETY OF APPLICATIONS

Scaling, perio, endo – 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



→ PIEZOQUATTRO S



→ MICROPIEZO S



→ MULTIPIEZO



→ COMPACT PIEZO

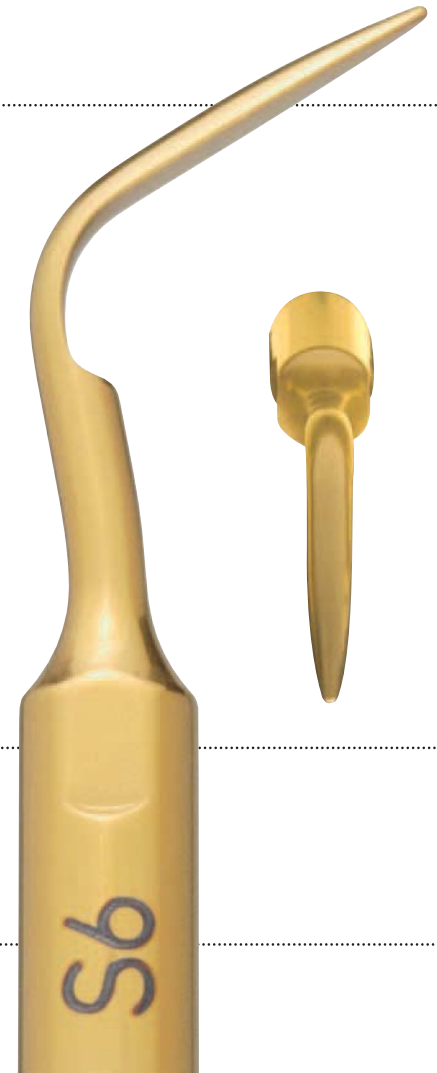


→ PIEZO SMART

→ THE INSERTS

A range of 48 inserts is available for different uses. The surface has been enhanced with titanium nitride to make it tougher than traditional ultrasound inserts.

mectron inserts are supplied in kits that allow both a proper storage and an effective sterilisation.





→ INSERT KIT

These small and handy kits are made of stainless steel (no aluminium).

The blue silicon rings perfectly hold the inserts.



CONTENTS

→ 8-16 INSERT KITS

- 8/9 kit scaling/kit scaling high efficiency
- 10/11 kit perio universal/kit perio anatomic
- 12/13 kit endo/kit endo revision
- 14/15 kit endo retro/kit cavity prep
- 16/17 kit cavity margin/kit restorative

→ 18-22 SCALING INSERTS

- 18/19 insert S1/insert S2
- 20/21 insert S3/insert S4
- 22 insert S5

→ 22-25 SCALING HIGH EFFICIENCY INSERTS

- 23 insert S6
- 24/25 insert S7/insert S8

→ 26-29 PERIO UNIVERSAL INSERTS

- 26/27 insert P1/insert P2
- 28/29 insert P3/insert P4

→ 30-33 PERIO ANATOMIC INSERTS

- 31 insert P10
- 32/33 insert P11, P12/insert P13, P14

→ 34-37 ENDO INSERTS

- 34/35 insert E1/insert E1
- 36/37 lime endo

→ 38-43 ENDO REVISION INSERTS

- 39 insert ER1
- 40/41 insert ER2/insert ER3
- 42/43 insert ER4/insert ER5

→ 44-52 ENDO RETRO INSERTS

- 45 insert R1
- 46/47 insert R2/insert R3
- 48/49 insert R4/insert R5
- 50/51 insert RD3/insert RD4
- 52 insert RD5

→ 54-55 CROWN PREP TIPS

→ 56-63 CAVITY PREP INSERTS

- 58/59 insert CP1/insert CP2
- 60/61 insert CP3/insert CP4
- 62/63 insert CP5/insert CP6

→ 64-67 CAVITY MARGIN INSERTS

- 64/65 insert CM1/insert CM2
- 66/67 insert CM3/insert CM4

→ 68-71 RESTORATIVE INSERTS

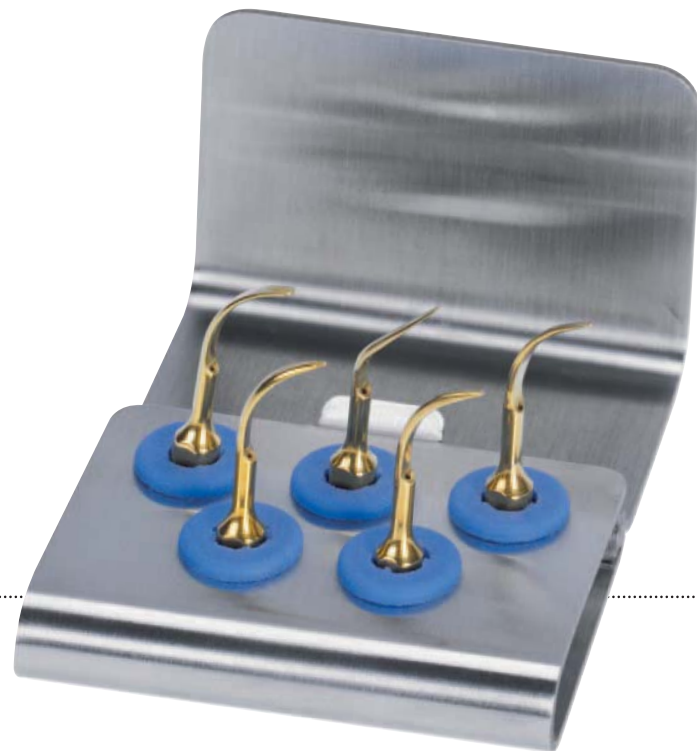
- 68/69 insert D1/insert D2
- 70/71 insert D3/insert D4

→ 72-73 REFERENCE NUMBERS/TIP CARD

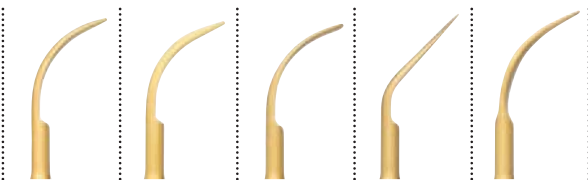
→ KIT SCALING

→ EQUIPPED WITH:

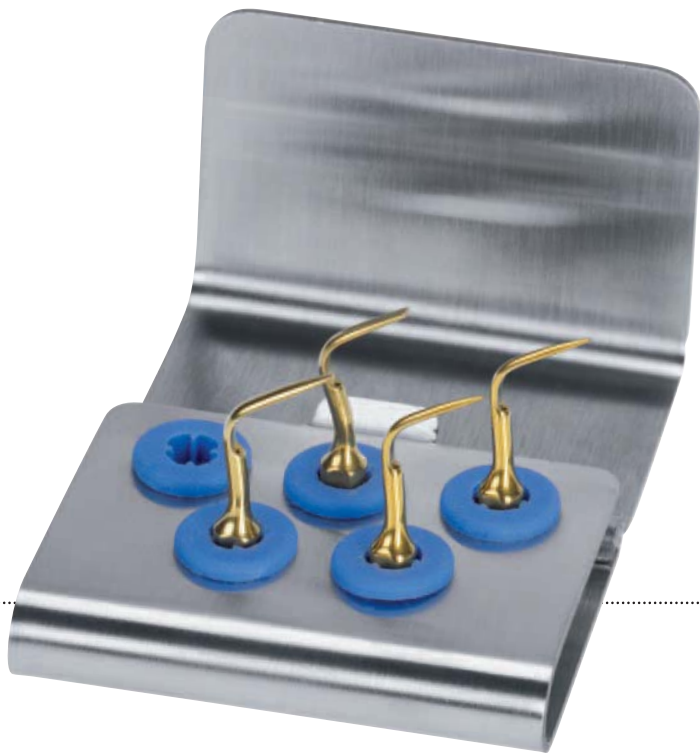
- 1 insert S1
- 1 insert S2
- 1 insert S3
- 1 insert S4
- 1 insert S5



→ S1 → S2 → S3 → S4 → S5



→ KIT SCALING HIGH EFFICIENCY



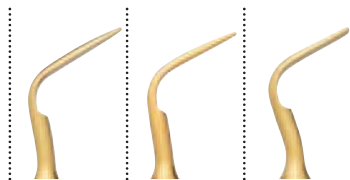
→ EQUIPPED WITH:

2 inserts S6

1 insert S7

1 insert S8

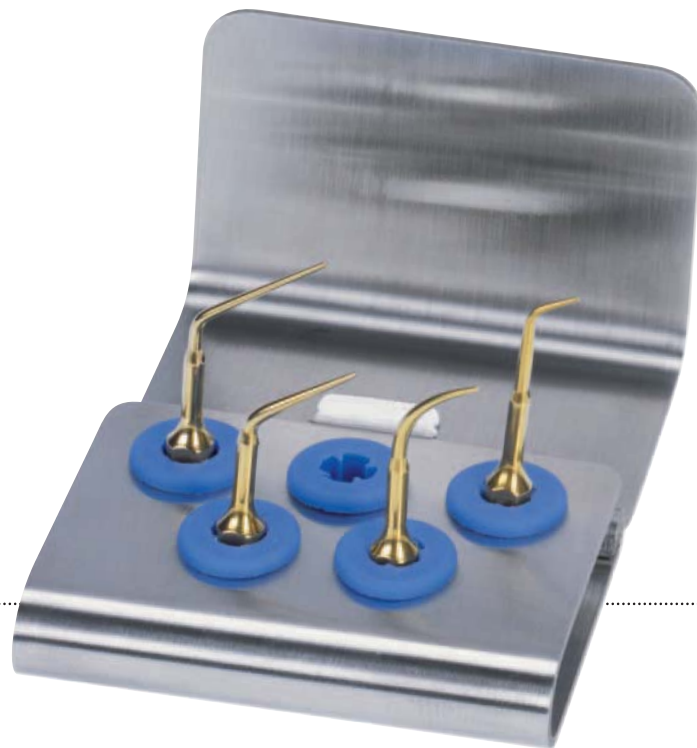
→ S6 → S7 → S8



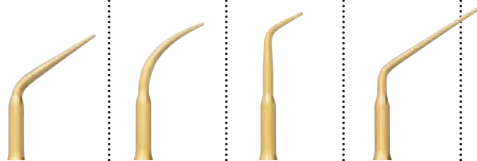
→ KIT PERIO UNIVERSAL

→ EQUIPPED WITH:

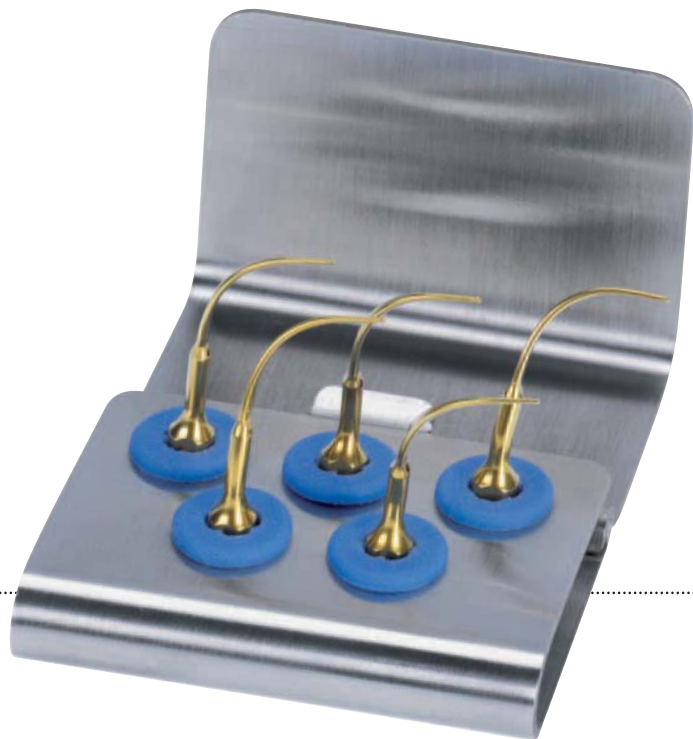
- 1 insert P1
- 1 insert P2
- 1 insert P3
- 1 insert P4



→ P1 → P2 → P3 → P4



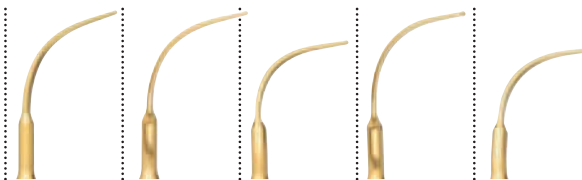
→ KIT PERIO ANATOMIC



→ EQUIPPED WITH:

- 1 insert P10
- 1 insert P11
- 1 insert P12
- 1 insert P13
- 1 insert P14

→ P10 → P11 → P12 → P13 → P14



→ KIT ENDO

→ 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



→ E1

→ E2



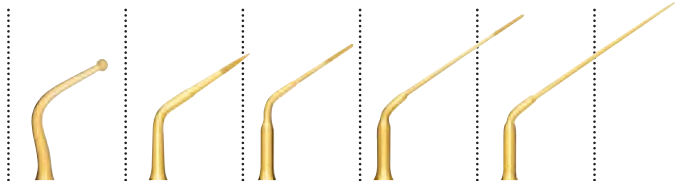
→ KIT ENDO REVISION



→ EQUIPPED WITH:

- 1 insert ER1
- 1 insert ER2
- 1 insert ER3
- 1 insert ER4
- 1 insert ER5

→ ER1 → ER2 → ER3 → ER4 → ER5

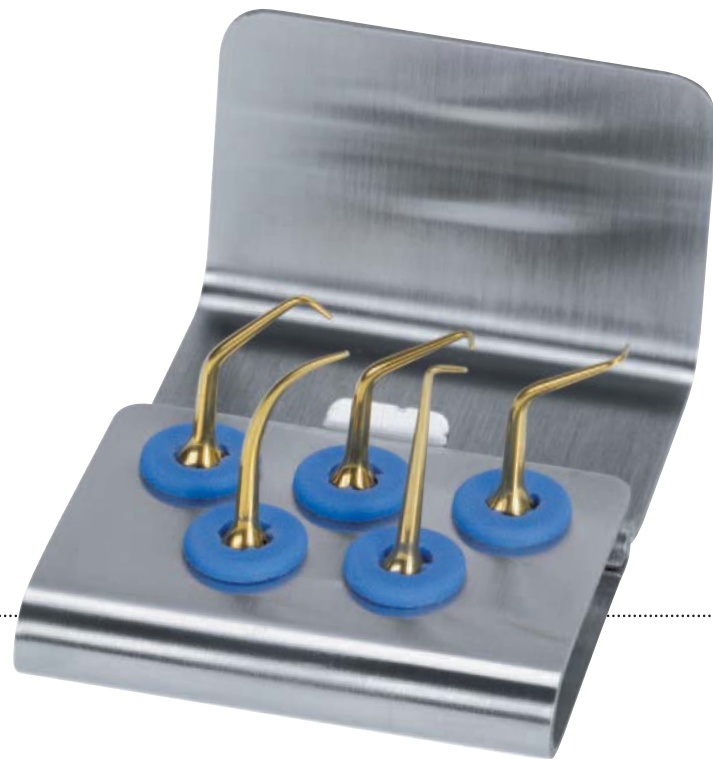


INSERT KITS

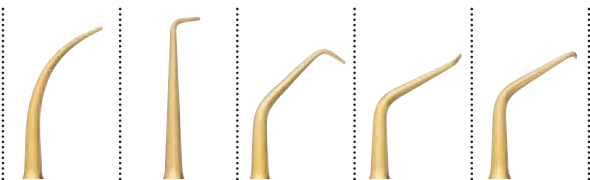
→ KIT ENDO RETRO

→ EQUIPPED WITH:

- 1 insert R1
- 1 insert R2
- 1 insert R3
- 1 insert R4
- 1 insert R5



→ R1 → R2 → R3 → R4 → R5



→ KIT CAVITY PREP



→ EQUIPPED WITH:

- 1 insert CP1
- 1 insert CP2
- 1 insert CP3
- 1 insert CP4

→ CP1 → CP2 → CP3 → CP4



→ KIT CAVITY MARGIN

→ EQUIPPED WITH:

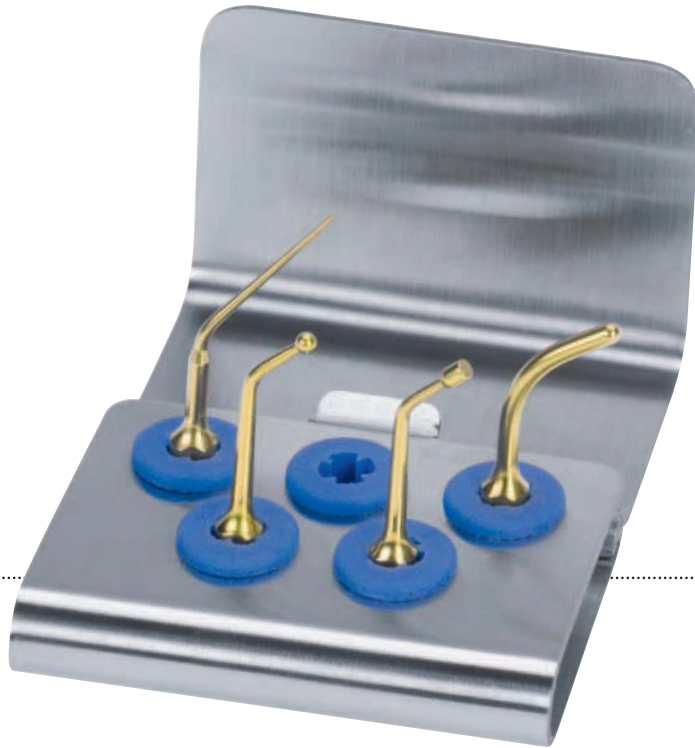
- 1 insert CM1
- 1 insert CM2
- 1 insert CM3
- 1 insert CM4



→ CM1 → CM2 → CM3 → CM4



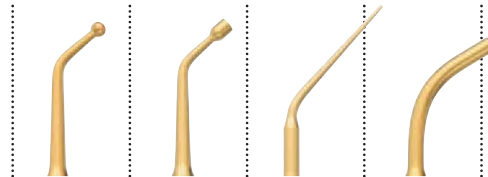
→ KIT RESTORATIVE



→ EQUIPPED WITH:

- 1 insert D1
- 1 insert D2
- 1 insert D3
- 1 insert D4

→ D1 → D2 → D3 → D4



INSERT KITS

S1

→ IDENTIFICATION

scaling

→ MORPHOLOGY

universal curette with semicircular diameter

→ SURFACE

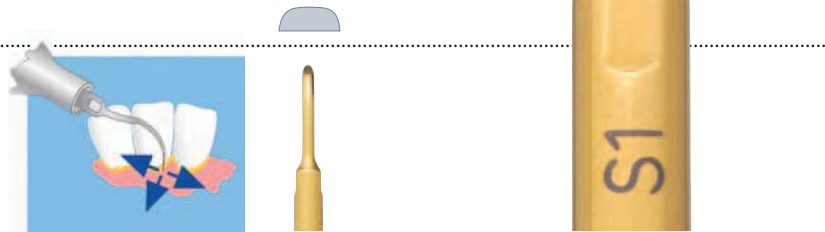
titanium nitride coat

→ TREATMENT

for considerable tartar removal

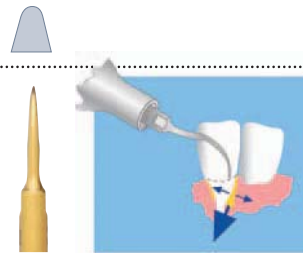
→ POWER

0 – 100 %

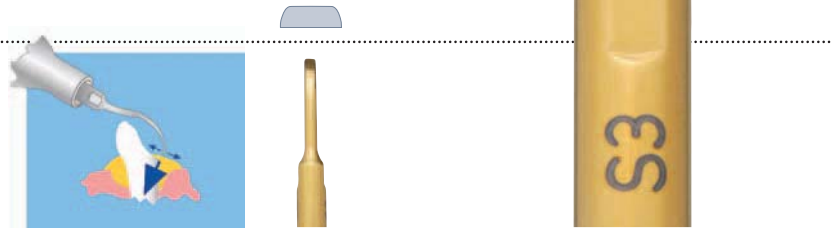




- IDENTIFICATION
scaling
- MORPHOLOGY
universal curette with triangled, slightly curved surface
- SURFACE
titanium nitride coat
- TREATMENT
efficient in the interdental spaces and posterior surfaces
- POWER
0 – 100 %



- IDENTIFICATION
scaling
- MORPHOLOGY
flat, with rounded edges
- SURFACE
titanium nitride coat
- TREATMENT
for considerable supragingival tartar removal
- POWER
0 – 100 %





→ IDENTIFICATION

scaling

→ MORPHOLOGY

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

→ SURFACE

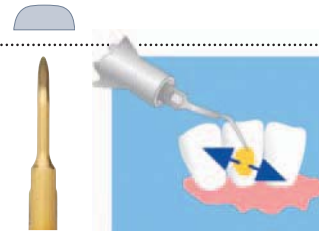
titanium nitride coat

→ TREATMENT

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

→ POWER

0 – 100 %



→ IDENTIFICATION

scaling

→ MORPHOLOGY

similar shape to S1 insert but longer and thinner

→ SURFACE

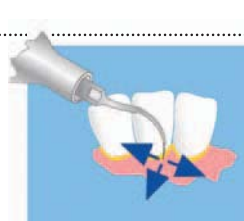
titanium nitride coat

→ TREATMENT

for gentle supra- and subgingival tartar removal
and for gingivitis

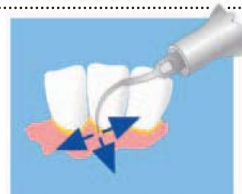
→ POWER

0 – 100 %





- IDENTIFICATION
scaling
- MORPHOLOGY
contra-angled universal curette with semicircular diameter
- SURFACE
titanium nitride coat
- TREATMENT
powerful insert (twice the power of S1 insert)
for considerable tartar removal
- POWER
0 – 100 %



→ IDENTIFICATION

scaling

→ MORPHOLOGY

contra-angled universal curette with triangled, slightly curved surface

→ SURFACE

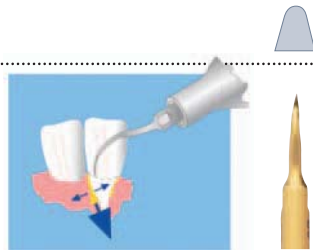
titanium nitride coat

→ TREATMENT

powerful insert (twice the power of S2 insert) efficient in the interdental spaces and posterior surfaces

→ POWER

0 – 100 %





→ IDENTIFICATION

scaling

→ MORPHOLOGY

contra-angled, flat working surface with round edges

→ SURFACE

titanium nitride coat

→ TREATMENT

powerful insert (twice the power of S3 insert) for considerable supragingival tartar removal

→ POWER

0 – 100 %



→ P1

→ IDENTIFICATION

perio

→ MORPHOLOGY

long, straight working tip with a circular surface

→ SURFACE

titanium nitride coat

→ TREATMENT

for concrements and biofilm removal from root surfaces

→ POWER

0 – 50 %





→ IDENTIFICATION

perio

→ MORPHOLOGY

curved working tip with a circular surface

→ SURFACE

titanium nitride coat

→ TREATMENT

for concrements and biofilm removal from root surfaces

→ POWER

0 – 50 %



→ IDENTIFICATION

perio

→ MORPHOLOGY

straight long shaft, short working tip with a circular surface

→ SURFACE

titanium nitride coat

→ TREATMENT

for concretions and biofilm removal in furcations

→ POWER

0 – 50 %





→ IDENTIFICATION

perio

→ MORPHOLOGY

extra long, straight working tip with a circular surface

→ SURFACE

titanium nitride coat

→ TREATMENT

for concrements and biofilm removal from root surfaces

→ POWER

0 – 50 %



PERIO ANATOMIC INSERTS – OPTIMAL ACCESS TO ROOT SURFACES

The anatomic shape of perio anatomic inserts allows a biofilm and concrements removal from deep periodontal pockets. Their filigree shape allows a gentle and nearly painless treatment.



→ IDENTIFICATION

perio

→ MORPHOLOGY

extra long, curved working tip with a circular surface

→ SURFACE

titanium nitride coat

→ TREATMENT

for concrements and biofilm removal from root surfaces

→ POWER

0 – 50 %



→ P11 – P12

→ IDENTIFICATION

perio

→ MORPHOLOGY

P11: right (inclination of 15°) curved insert with round tip

P12: left (inclination of 15°) curved insert with round tip

→ SURFACE

titanium nitride coat

→ TREATMENT

for gentle subgingival concretions removal

→ POWER

0 – 50 %



→ P11



→ P12



→ P13 – P14



→ IDENTIFICATION

perio

→ MORPHOLOGY

P13: right (inclination of 15°) curved insert with spherical ($\varnothing = 0.8$ mm) round tip

P14: left (inclination of 15°) curved insert with spherical ($\varnothing = 0.8$ mm) round tip

→ SURFACE

titanium nitride coat

→ TREATMENT

for concrements and biofilm removal in furcations and concavities

→ POWER

0 – 50 %



→ IDENTIFICATION

endo

→ MORPHOLOGY

endo files holder 120°

→ SURFACE

titanium nitride coat

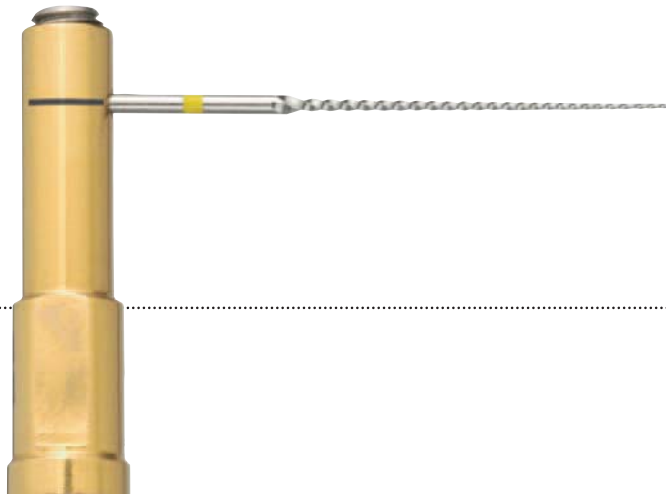
→ TREATMENT

front teeth and premolars treatment

→ POWER

0 – 25 %





- IDENTIFICATION
endo
- MORPHOLOGY
endo files holder 90°
- SURFACE
titanium nitride coat
- TREATMENT
molars treatment
- POWER
0 – 25 %



→ ENDO FILES

→ NITI-FILES FOR ULTRASONIC UNITS

ISO 15



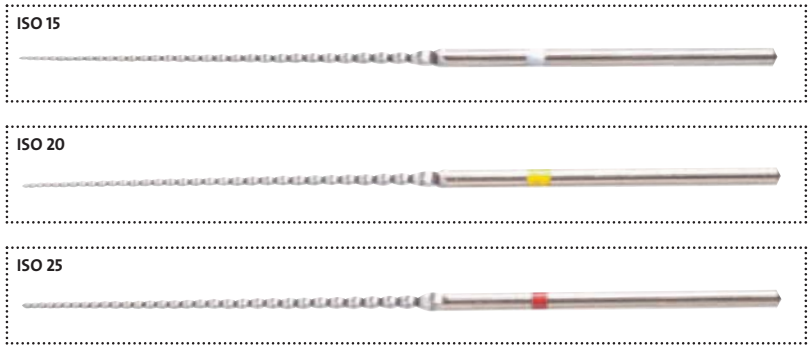
ISO 20



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 action combined to the file vibrational temperature increase and the drags removal 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 new ER inserts cover the complete spectrum of endodontic revision treatment.





→ IDENTIFICATION

endo revision

→ MORPHOLOGY

angled shaft with small, spherical (\varnothing 1.7 mm)
and D30 diamond coated tip

→ SURFACE

titanium nitride coat

→ TREATMENT

exposure of root canal pins

→ POWER

0 – 50 %



→ IDENTIFICATION

endo revision

→ MORPHOLOGY

angled insert with 0.7 mm \varnothing , 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

→ POWER

0 – 50 %





→ IDENTIFICATION

endo revision

→ MORPHOLOGY

angled insert with 0.6 mm \emptyset , 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

→ POWER

0 – 50 %



ER4

→ IDENTIFICATION

endo revision

→ MORPHOLOGY

angled insert with 0.6 mm \emptyset , working length up to 20 mm, the last 5 mm D30 diamond coated

→ SURFACE

titanium nitride coat

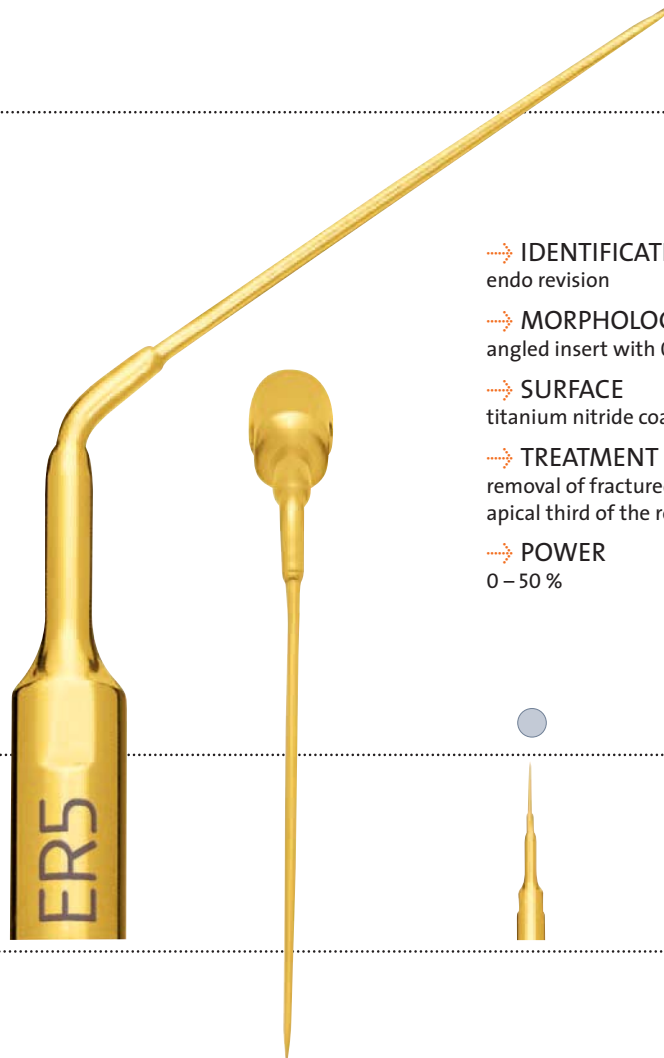
→ TREATMENT

presentation of calcified root canals entrances, removal of root elements and fractured inserts in the coronal third of the root canal

→ POWER

0 – 50 %





→ IDENTIFICATION

endo revision

→ MORPHOLOGY

angled insert with 0.5 mm \emptyset , 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

→ POWER

0 – 50 %

→ ENDO RETRO INSERTS – MINIMAL 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

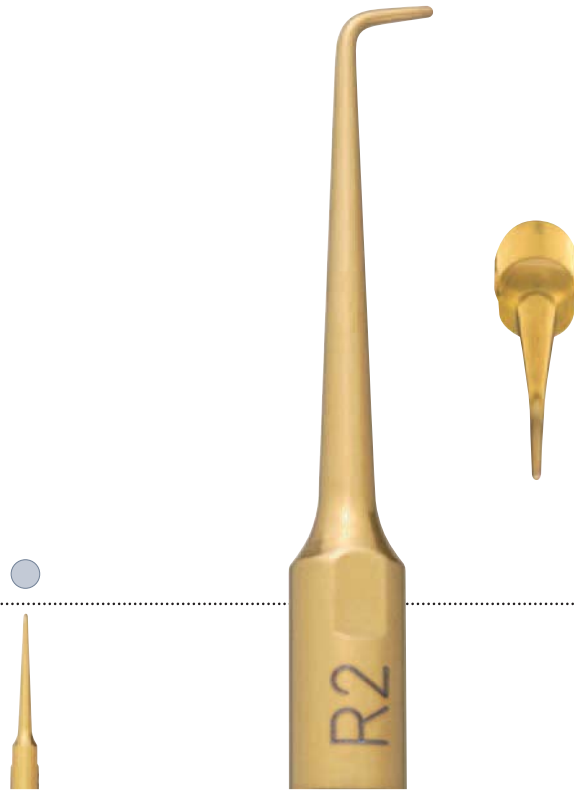
for cleaning the root canal

→ POWER

0 – 50 %



- IDENTIFICATION
endo retro
- MORPHOLOGY
angled shaft, with 90° angled working tip
- SURFACE
titanium nitride coat
- TREATMENT
for cleaning the root canal in the front
- POWER
0 – 50 %





→ **IDENTIFICATION**

endo retro

→ **MORPHOLOGY**

long, straight insert with 90° angled working tip

→ **SURFACE**

titanium nitride coat

→ **TREATMENT**

for cleaning the root canal in the front

→ **POWER**

0 – 50 %



→ R4

→ IDENTIFICATION

endo retro

→ MORPHOLOGY

angled shaft, with 90° right angled working tip

→ SURFACE

titanium nitride coat

→ TREATMENT

for cleaning the root canal in the molar area

→ POWER

0 – 50 %





- **IDENTIFICATION**
endo retro
- **MORPHOLOGY**
angled shaft, with 90° left angled working tip
- **SURFACE**
titanium nitride coat
- **TREATMENT**
for cleaning the root canal in the molar area
- **POWER**
0 – 50 %



RD3

→ IDENTIFICATION

endo retro

→ MORPHOLOGY

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

→ SURFACE

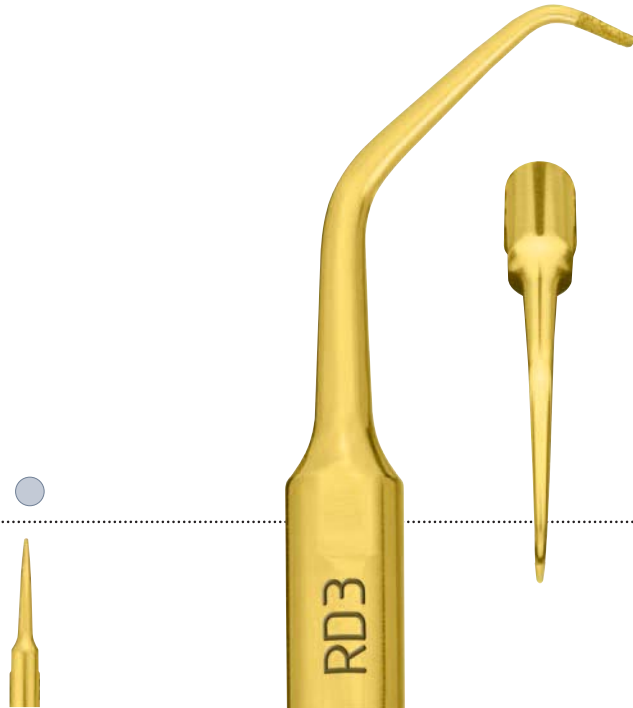
titanium nitride coat

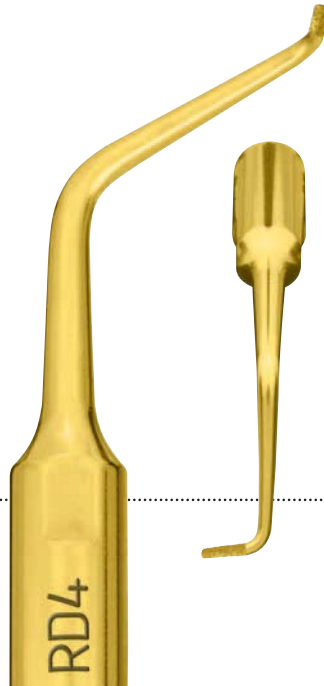
→ TREATMENT

for cleaning the root canal in the front

→ POWER

0 – 50 %





→ IDENTIFICATION

endo retro

→ MORPHOLOGY

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

→ SURFACE

titanium nitride coat

→ TREATMENT

for cleaning the root canal in the molar area

→ POWER

0 – 50 %

RD5

→ IDENTIFICATION

endo retro

→ MORPHOLOGY

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

→ SURFACE

titanium nitride coat

→ TREATMENT

for cleaning the root canal in the molar area

→ POWER

0 – 50 %

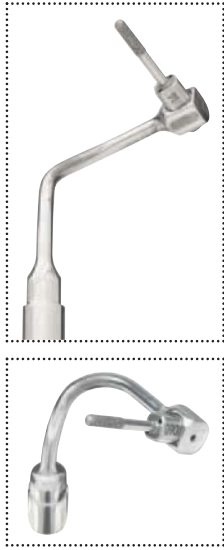


CROWN PREP TIPS

CROWN PREP TIPS – NON TRAUMATIC AND PRECISE!

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

The special shape of the tipholder allow an optimal view on the preparation field. The tipholder brings the crown prep tips to an elliptic movement and enable therefore a circular preparation of the tooth.



→ TIP HOLDER DB1



→ KEY AB1



→ DYNAMOMETRIC WRENCH K7

→ TIP HOLDER DB1 WITH CROWN PREP TIP TA14D60

→ LENGTH 10 MM → DIAMOND COATING

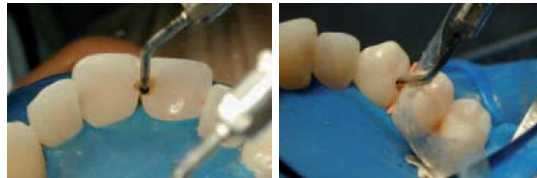
diameter	D120	D90	D60
1.2 mm		TA12D90	TA12D60
1.4 mm	TA14D120	TA14D90	TA14D60
1.6 mm	TA16D120	TA16D90	TA16D60

→ CROWN PREP TIP TA14D60

→ CAVITY PREP INSERTS

→ INSERTS FOR CAVITY PREPARATION – PERFECTLY PREPARED FOR PERFECT PREPARATION.

Thanks to the innovative and patented CVD (Chemical Vapor Deposition) synthetic diamond technology cavity preparation will be revolutionized. The new technology is characterized by important clinical advantages like the reduction of local anesthetics, the decrease of uncomfortable noise, the preservation of soft tissue, extended durability, improved proximal finishing, reduced risk of hitting the adjacent tooth and lack of metal contamination. The cutting efficiency of these new tips is clearly superior, as compared to traditional diamond coated tips available for ultrasonic scalers.





→ IDENTIFICATION

cavity prep

→ MORPHOLOGY

60° angled insert, conical fine tip (0.5 to 0.75 mm \emptyset , working length 4 mm) with CVD coating

→ TREATMENT

- removal of tartar and stains, supra- or subgingival
- preparation of pits and fissures with incipient lesions
- removal of excess restoration materials in inter-papilla, supra- and subgingival

→ POWER

0 – 50 %





→ IDENTIFICATION

cavity prep

→ MORPHOLOGY

60° angled insert, slightly conical tip (0.55 to 1.0 mm ϕ , working length 4 mm) with CVD coating

→ TREATMENT

- preparation of pits in more developed lesions
- removal of old restorations

→ POWER

0 – 50 %



→ IDENTIFICATION

cavity prep

→ MORPHOLOGY

60° angled insert, cylindric tip (1.1 mm \emptyset , working length 4 mm) with CVD coating

→ TREATMENT

extensive preparations

→ POWER

0 – 50 %





→ IDENTIFICATION

cavity prep

→ MORPHOLOGY

60° angled insert, spherical tip (1.3 mm Ø) with CVD coating

→ TREATMENT

removal of carious tissues

→ POWER

0 – 50 %



CP5

→ IDENTIFICATION

cavity prep

→ MORPHOLOGY

45° angled insert, spherical tip (1.7 mm \varnothing) with CVD coating

→ TREATMENT

removal of carious tissues

→ POWER

0 – 50 %





→ IDENTIFICATION

cavity prep

→ MORPHOLOGY

45° angled insert, cylindric with chamfer-shaped tip
(1.7 mm Ø) with CVD coating

→ TREATMENT

- finishing of prosthetic preparations
- occlusal cavities

→ POWER

0 – 50 %



→ CM1

→ IDENTIFICATION

cavity margin

→ MORPHOLOGY

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

→ SURFACE

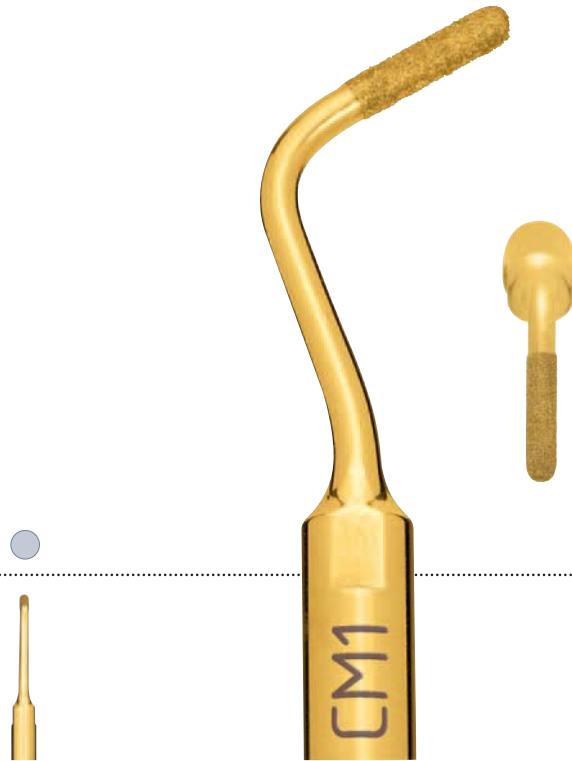
titanium nitride coat

→ TREATMENT

preparation of the crown core and the crown margin

→ POWER

0 – 50 %





→ 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

→ POWER

0 – 50 %



→ IDENTIFICATION

cavity margin

→ MORPHOLOGY

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

→ SURFACE

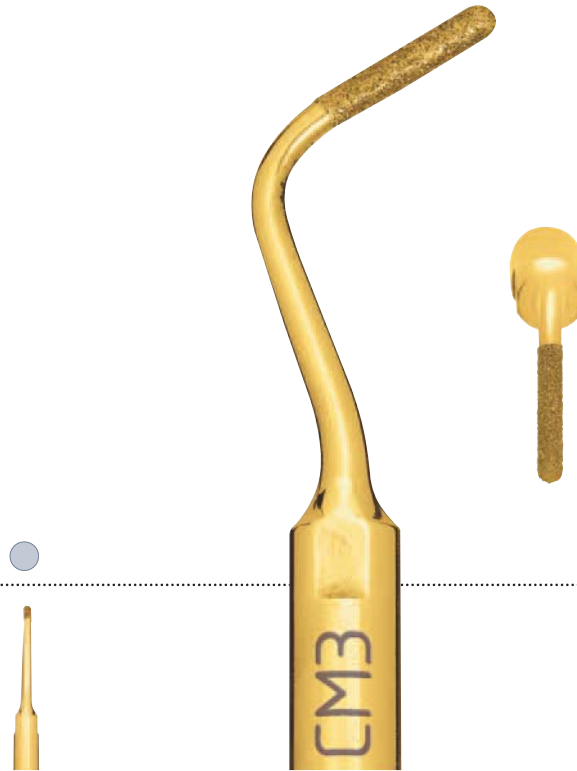
titanium nitride coat

→ TREATMENT

preparation of the crown core and the crown margin

→ POWER

0 – 50 %





→ IDENTIFICATION

cavity margin

→ MORPHOLOGY

angled shaft with torpeda shaped working tip,
 \varnothing 1.5 mm, fine diamond coating (D30)

→ SURFACE

titanium nitride coat

→ TREATMENT

fine finishing of the crown core and the crown margin

→ POWER

0 – 50 %



→ **IDENTIFICATION**
amalgam condensation

→ **MORPHOLOGY**
spherical tip

→ **SURFACE**
titanium nitride coat

→ **TREATMENT**

- for amalgam condensation in class I, II and V preparations
- for gold fillings burnishing

→ **POWER**
0 – 100 %





→ IDENTIFICATION

amalgam condensation

→ MORPHOLOGY

cylindrical tip

→ SURFACE

titanium nitride coat

→ TREATMENT

- for amalgam condensation in class I, II and V preparations
- for removing of crowns and bridges

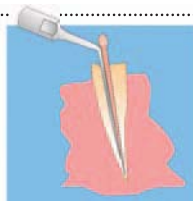
→ POWER

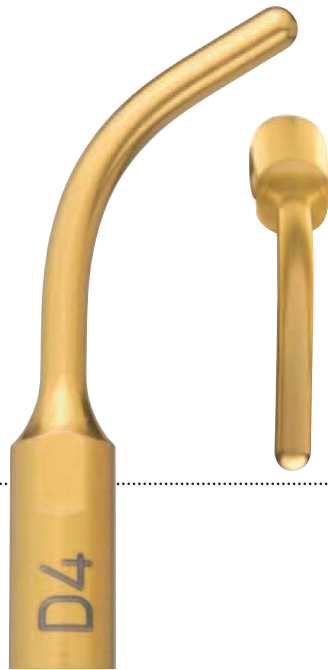
0 – 100 %



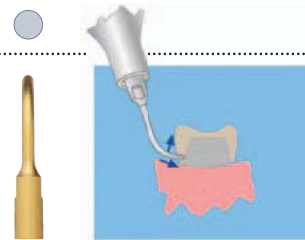
→ D3

- IDENTIFICATION
endo
- MORPHOLOGY
analogous to a manual spreader
- SURFACE
titanium nitride coat
- TREATMENT
for lateral condensation of guttapercha
- POWER
0 – 100 %





- IDENTIFICATION
restorative
- MORPHOLOGY
rounded working tip
- SURFACE
titanium nitride coat
- TREATMENT
for crowns, bridges and metal points removal
- POWER
0 – 100 %





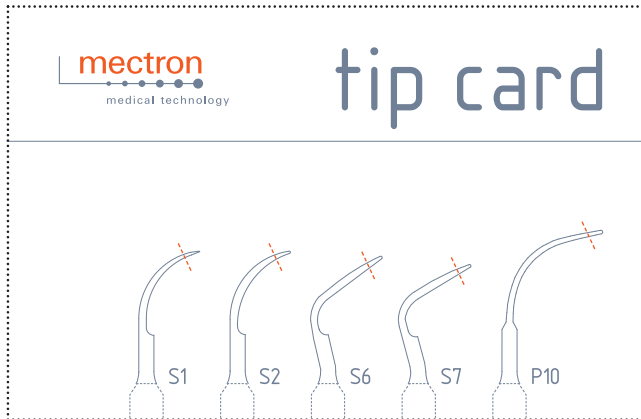
REFERENCE NUMBERS

→ ITEM/REFERENCE NUMBER	
kit scaling	02160001
kit scaling high efficiency	02160005
kit perio universal	02160002
kit perio anatomic	02160006
kit endo	02980020
kit endo revision	02160008
kit endo retro	02160004
kit cavity prep	02160011
kit cavity margin	02160007
kit restorative	02160003
insert S1	02960001
insert S2	02960002
insert S3	02960003
insert S4	02960004
insert S5	02960005
insert S6	02960006
insert S7	02960007
insert S8	02960008
insert P1	02970001
insert P2	02970002
insert P3	02970003
insert P4	02970004
insert P10	03080001
insert P11	03080002
insert P12	03080003

→ ITEM/REFERENCE NUMBER	
insert P13	03080004
insert P14	03080005
insert E1	02350001
insert E2	02350002
12 x endo file, ISO 15, 31 mm	02730001
12 x endo file, ISO 20, 31 mm	02730002
12 x endo file, ISO 25, 31 mm	02730003
12 x endo file, ISO 15, 27 mm	02740001
12 x endo file, ISO 20, 27 mm	02740002
12 x endo file, ISO 25, 27 mm	02740003
insert ER1	03450001
insert ER2	03450002
insert ER3	03450003
insert ER4	03450004
insert ER5	03450005
insert R1	03050001
insert R2	03050002
insert R3	03050003
insert R4	03050004
insert R5	03050005
insert RD3	03050006
insert RD4	03050007
insert RD5	03050008
crown prep kit*	02160009
tipholder DB1	03570001

→ ITEM/REFERENCE NUMBER	
key AB1	03580001
dynamometric wrench K7	02990081
crown prep tip TA12D60	03590001
crown prep tip TA14D60	03590002
crown prep tip TA16D60	03590003
crown prep tip TA12D90	03590004
crown prep tip TA14D90	03590005
crown prep tip TA16D90	03590006
crown prep tip TA14D120	03590007
crown prep tip TA16D120	03590008
insert CP1	03970001
insert CP2	03970002
insert CP3	03970003
insert CP4	03970004
insert CP5	03970005
insert CP6	03970006
insert CM1	02190003
insert CM2	02190004
insert CM3	02190001
insert CM4	02190002
insert D1	02990001
insert D2	02990002
insert D3	02990003
insert D4	02990004

→ MECTRON TIP CARD



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 red hatched line, their performance is 50% less than the initial one. Such inserts should be quickly replaced.

MECTRON ULTRASONIC INSERTS – SCALING, PERIO, ENDO, RESTORATIVE

www.mectron.com – mectron@mectron.com

mectron s.p.a., Via Loreto 15/A, 16042 Carasco (Ge), Italia, tel +39 0185 353 61, fax +39 0185 351374



mectron

medical technology

© Copyright mectron S.p.A., Carasco, Italy

All rights reserved. Texts, pictures and graphics of mectron brochures are protected by copyright and other protection laws. Without written approval of mectron S.p.A. the contents may not be copied, distributed, changed or made available to third parties for commercial purposes.