



ultrasonic instruments



mectron



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.

ultrasonic instruments



a large variety of applications

piezo smart



combi s



multipiezo



piezoquattro s



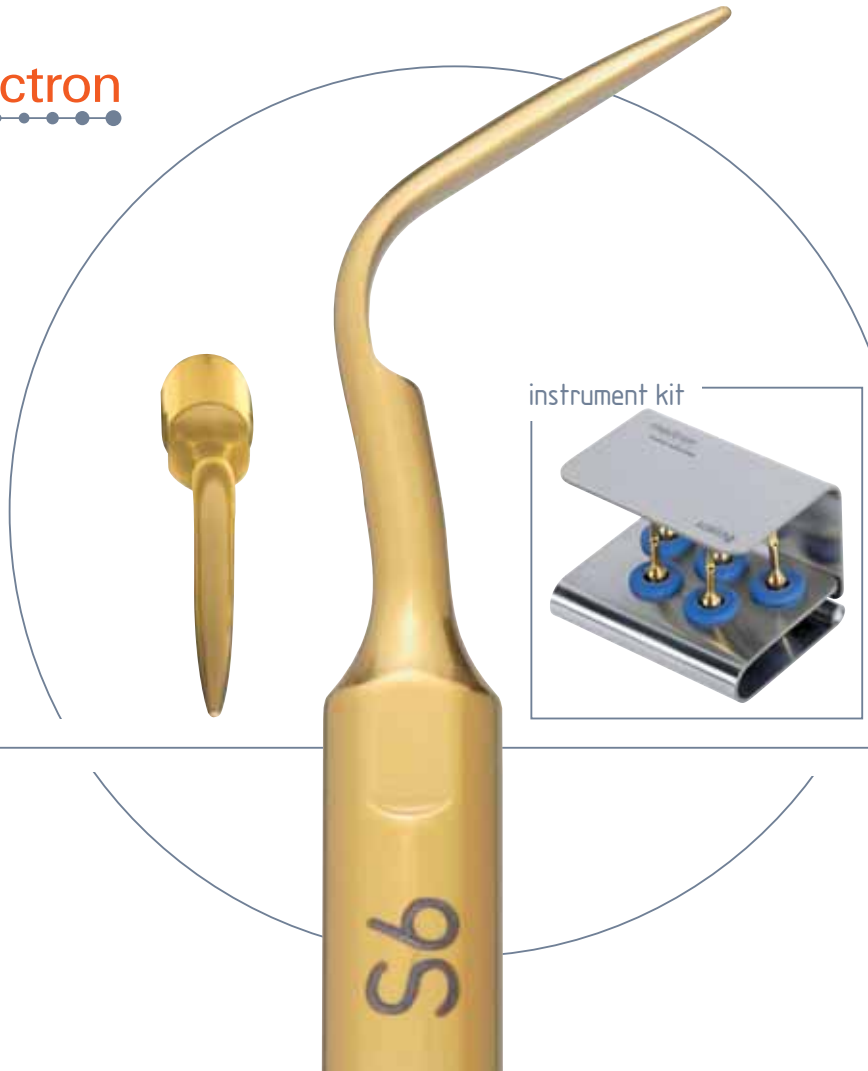
micropiezo s



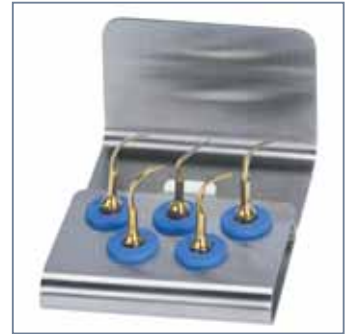
compact piezo



mectron



instrument kit



A range of 37 instruments is available for different uses. The surface has been enhanced with titanium nitride to make it tougher than traditional ultrasound instruments.

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

the instruments



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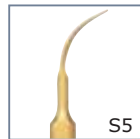
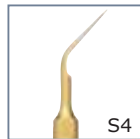
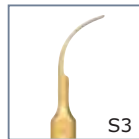
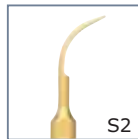
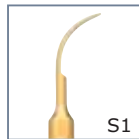
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instrument kits

Equipped with:

- 1 instrument S1
- 1 instrument S2
- 1 instrument S3
- 1 instrument S4
- 1 instrument S5

kit scaling



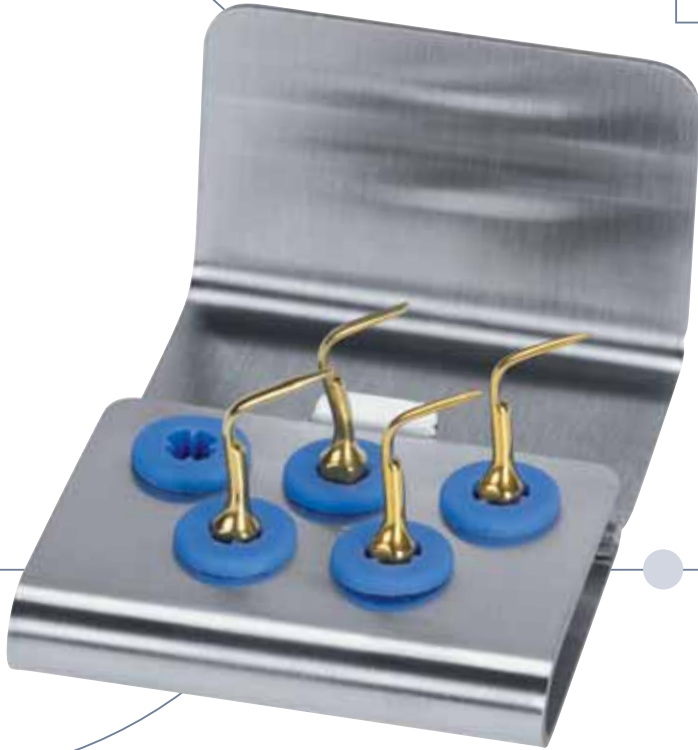


Equipped with:

- 2 instruments S6
- 1 instrument S7
- 1 instrument S8

kit scaling
high efficiency

instrument kits



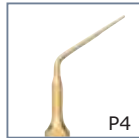
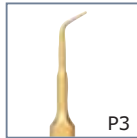
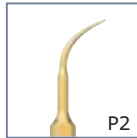
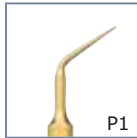
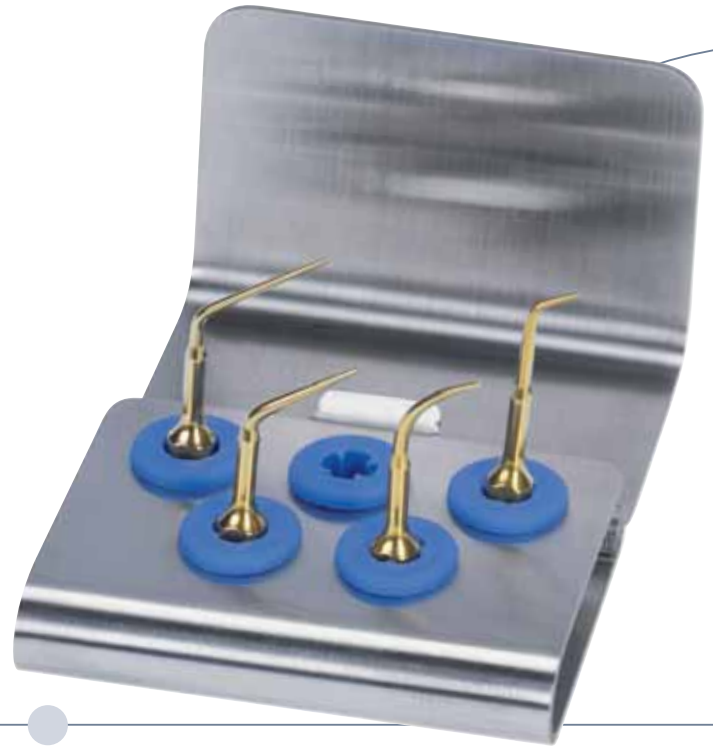
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instrument kits

kit perio universal

Equipped with:

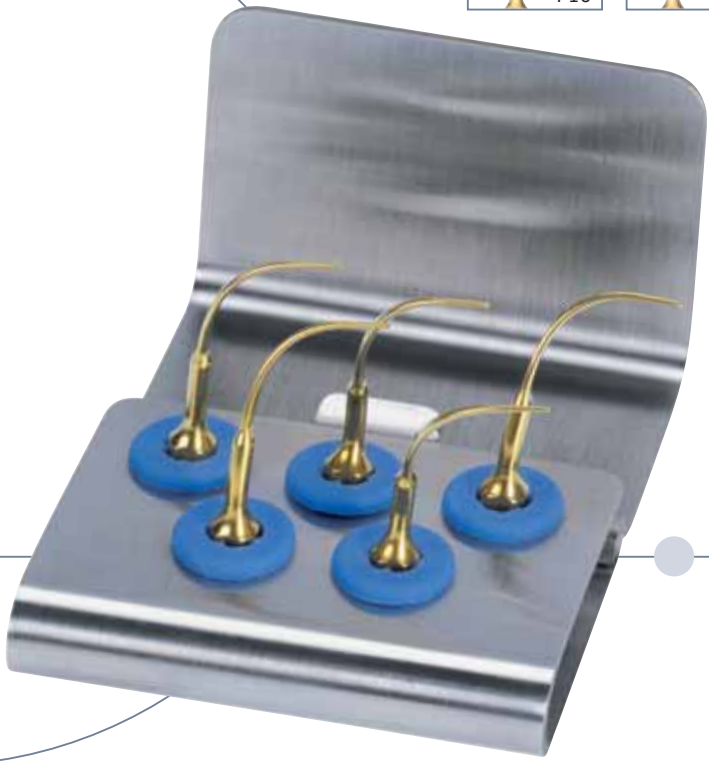
- 1 instrument P1
- 1 instrument P2
- 1 instrument P3
- 1 instrument P4





Equipped with:

- 1 instrument P10
- 1 instrument P11
- 1 instrument P12
- 1 instrument P13
- 1 instrument P14



kit perio anatomic



instrument kits

mectron

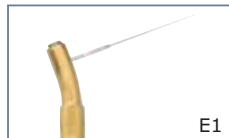
instrument kits

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



kit endo



E1



E2



Equipped with:

- 1 instrument ER1
- 1 instrument ER2
- 1 instrument ER3
- 1 instrument ER4
- 1 instrument ER5

kit endo revision

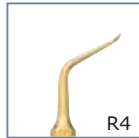
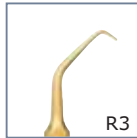
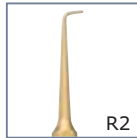
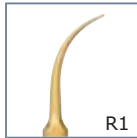
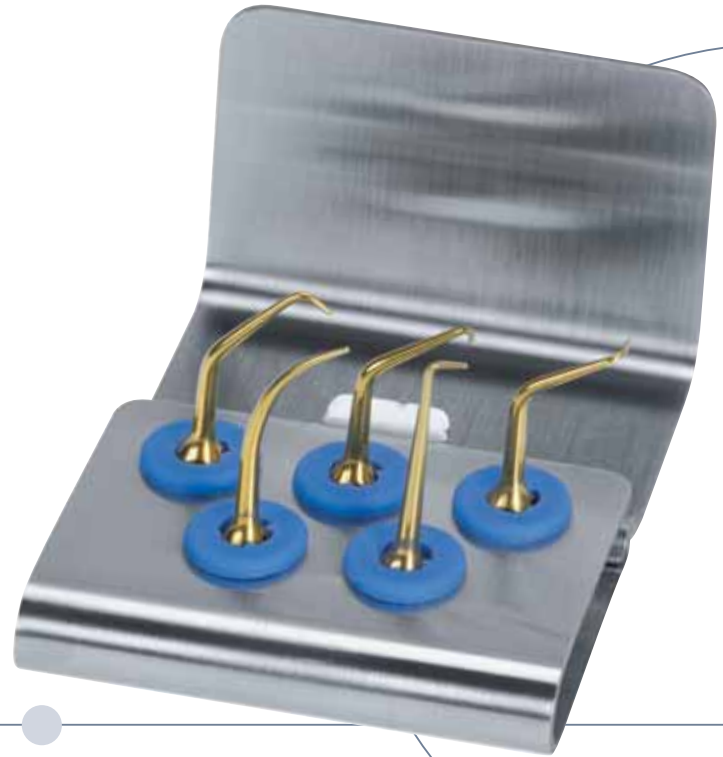
instrument kits

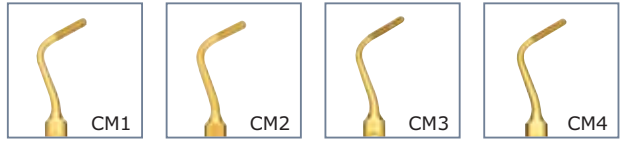


Equipped with:

- 1 instrument R1
- 1 instrument R2
- 1 instrument R3
- 1 instrument R4
- 1 instrument R5

kit endo retro





Equipped with:

- 1 instrument CM1
- 1 instrument CM2
- 1 instrument CM3
- 1 instrument CM4



kit cavity
margin



instrument kits

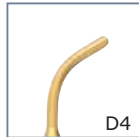
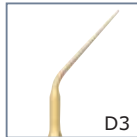
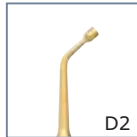
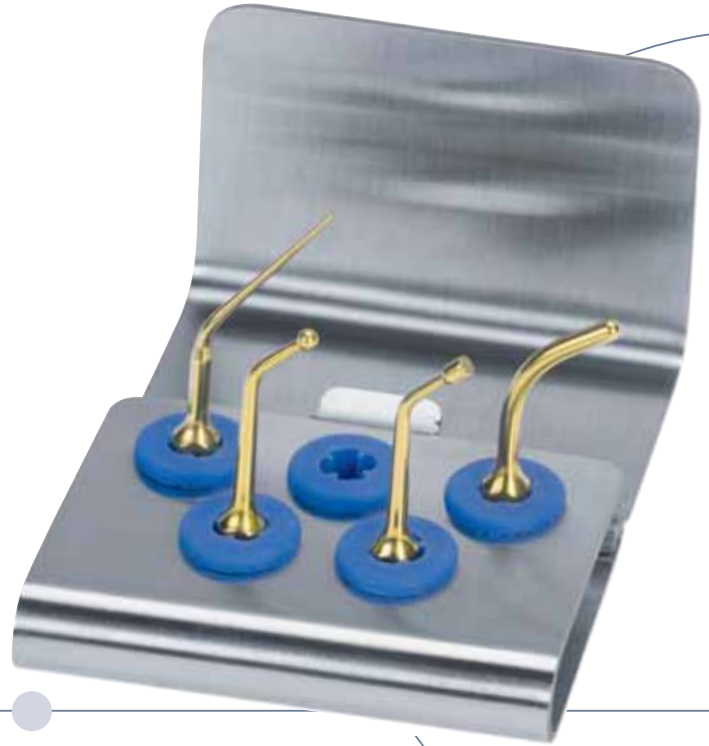
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instrument kits

Equipped with:

- 1 instrument D1
- 1 instrument D2
- 1 instrument D3
- 1 instrument D4

kit restorative





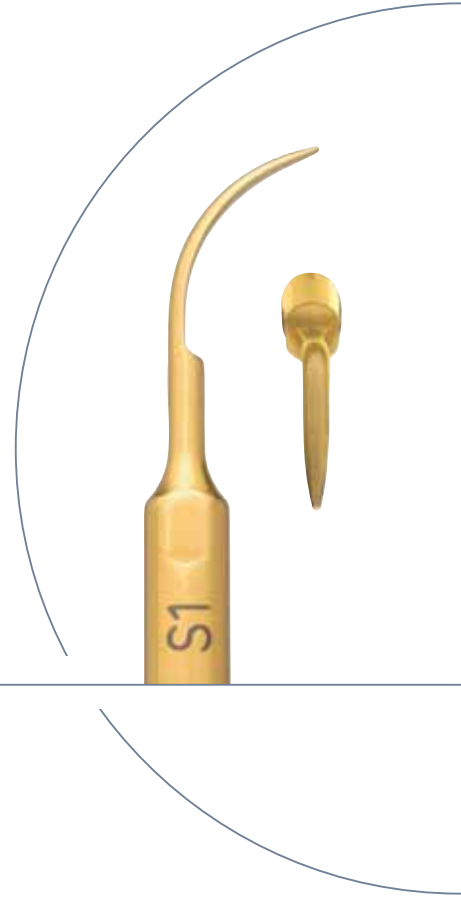
These small and handy kits are made of stainless steel (no aluminium).

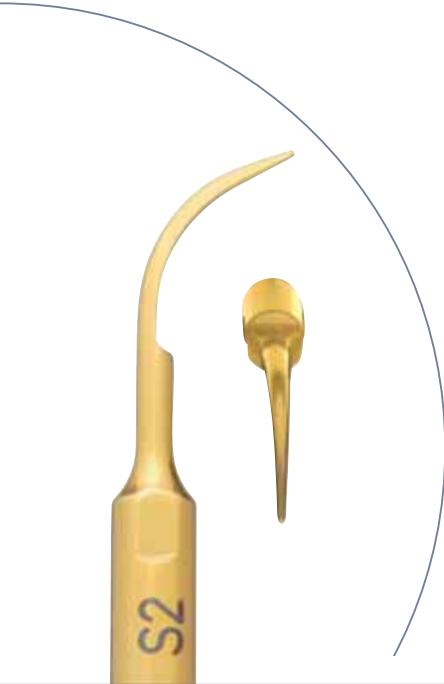
The blue silicon rings perfectly hold the instruments.

S1



identification	scaling
morphology	universal curette with semicircular diameter
surface	titanium nitride coat
treatment	for considerable tartar removal
power	0 - 100 %



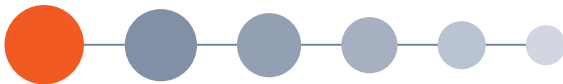


- identification scaling
- morphology universal curette with triangled, slightly curved surface
- surface titanium nitride coat
- treatment efficient in the interdental spaces and posterior surfaces
- power 0 - 100 %

S2

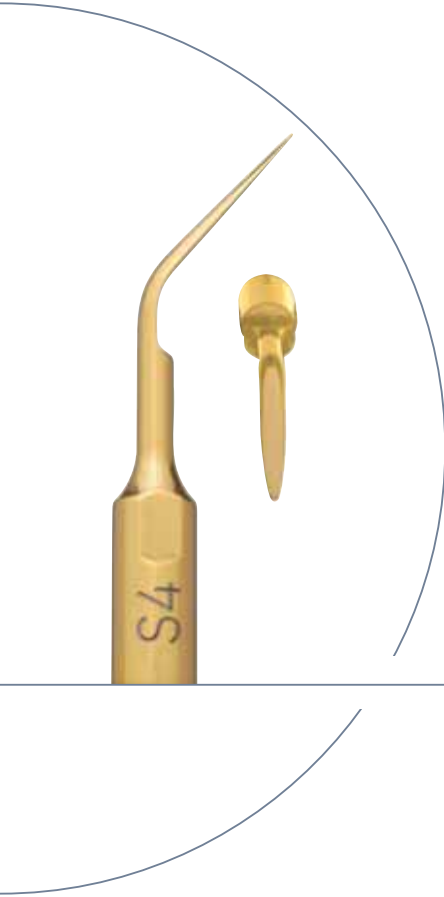


S3



identification	scaling
morphology	flat, with rounded edges
surface	titanium nitride coat
treatment	for considerable supra- gingival 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 %

S4



S5



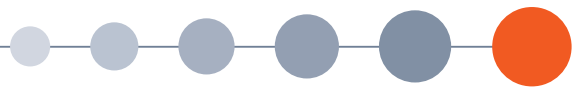
- identification scaling
- morphology similar shape to S1 instrument but longer and thinner
- surface titanium nitride coat
- treatment for gentle supra- and subgingival tartar removal and for gingivitis
- power 0 - 100 %





- identification scaling
- morphology contra-angled universal curette with semicircular diameter
- surface titanium nitride coat
- treatment powerful instrument (twice the power of S1 instrument) for considerable tartar removal
- power 0 - 100 %

S6



S7



- identification scaling
- morphology contra-angled universal curette with triangled, slightly curved surface
- surface titanium nitride coat
- treatment powerful instrument (twice the power of S2 instrument) 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 instrument (twice the power of S3 instrument) for considerable supragingival tartar removal
- power 0 - 100 %

S8

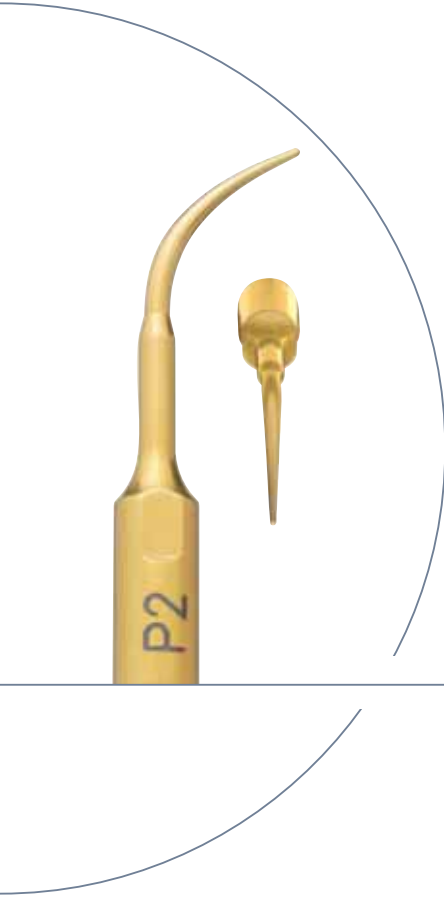


P1



- 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 %

P2



P3

- identification perio
- morphology straight long shaft, short working tip with a circular surface
- surface titanium nitride coat
- treatment for concrements 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 %

P4



perio anatomic instruments – optimal
access to root surfaces

The anatomic shape of perio anatomic instruments allows a biofilm and concretions 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 %

P10



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P11



P12

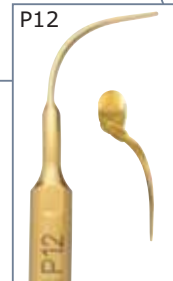


identification perio
 morphology right (inclination of 15°) curved instrument with round tip
 surface titanium nitride coat
 treatment for gentle subgingival concretions removal
 power 0 - 50 %

perio
 left (inclination of 15°) curved instrument with round tip
 titanium nitride coat
 for gentle subgingival concretions removal
 0 - 50 %

P11

P12





P13

P14

identification	perio
morphology	right (inclination of 15°) curved instrument with spherical (Ø = 0,8 mm) round tip
surface	titanium nitride coat
treatment	for concrements and biofilm removal in furcations and concavities
power	0 - 50 %

identification	perio
morphology	left (inclination of 15°) curved instrument with spherical (Ø = 0,8 mm) round tip
surface	titanium nitride coat
treatment	for concrements and biofilm removal in furcations and concavities
power	0 - 50 %



P13

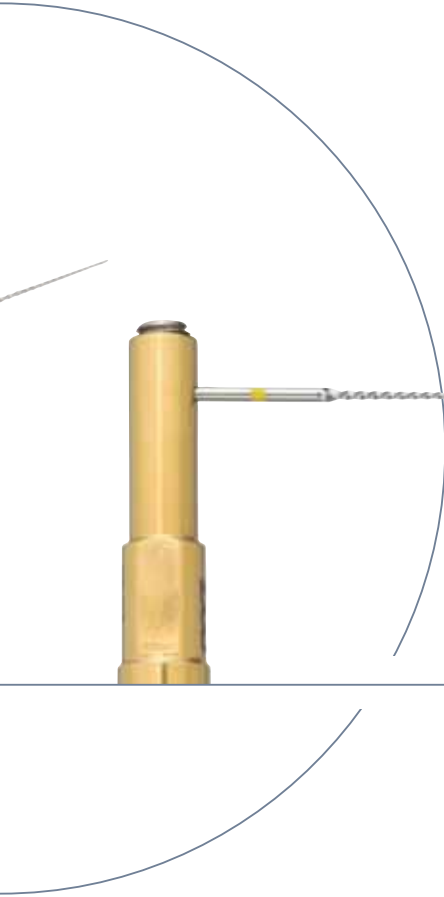
P14

P13

E1

- 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 %

E2



endo files



NiTi-files for ultrasonic units

27 mm length

ISO 15



ISO 20



ISO 25



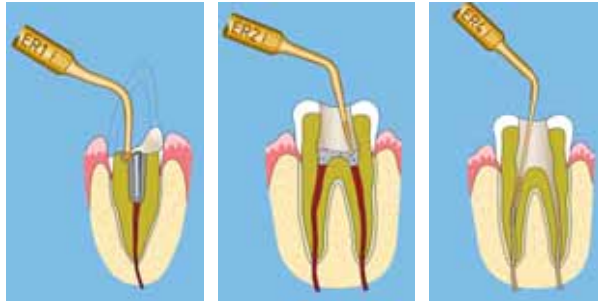
31 mm length



Ultrasonic 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 debris removal generated by an acoustic streaming outcome.

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endo revision with ER instruments

Exposure and removal of root pins, fast and effective removal of calcification in the coronal third of the root, removal of fractured root instruments – the new ER instruments 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
- power 0 – 50 %

ER1



ER2

- identification endo revision
- morphology angled instrument 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 instruments in the coronal third of the root canal
- power 0 - 50 %





- identification endo revision
- morphology angled instrument 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 instruments in the coronal third of the root canal
- power 0 – 50 %

ER3



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ER4

- identification endo revision
- morphology angled instrument 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 instruments in the coronal third of the root canal
- power 0 - 50 %





identification endo revision
morphology angled instrument with 0.5 mm Ø,
working length up to 24 mm
surface titanium nitride coat
treatment removal of fractured instruments in the
medial and apical third of the root canal
power 0 - 50 %

ER5



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endo retro instruments – minimal invasive retrograde root canal preparation

Endo retro instruments 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 instrument with a conical
round working tip
surface titanium nitride coat
treatment for cleaning the root canal
power 0 – 50 %

R1



R2

- 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 instrument with
90° angled working tip
surface titanium nitride coat
treatment for cleaning the root
canal in the front
power 0 – 50 %

R3



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 %

R5



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 %





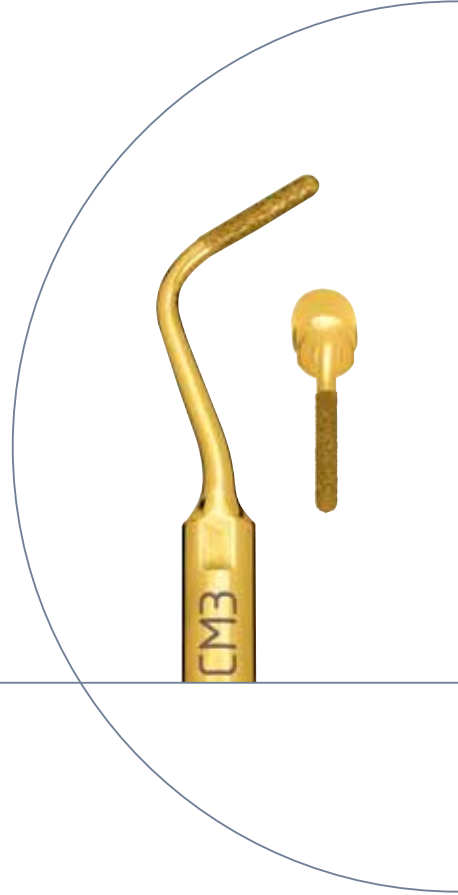
- identification cavity margin
- morphology angled shaft with torpedo shaped working tip, Ø 1.8 mm, fine diamond coating (D30)
- surface titanium nitride coat
- treatment fine finishing of the crown core and the crown margin
- power 0 – 50 %

CM2



CM3

- 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 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
power 0 – 50 %

CM4



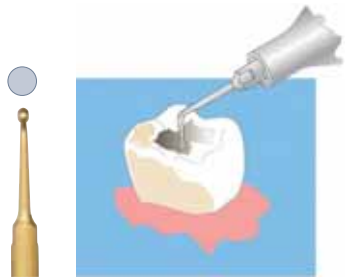
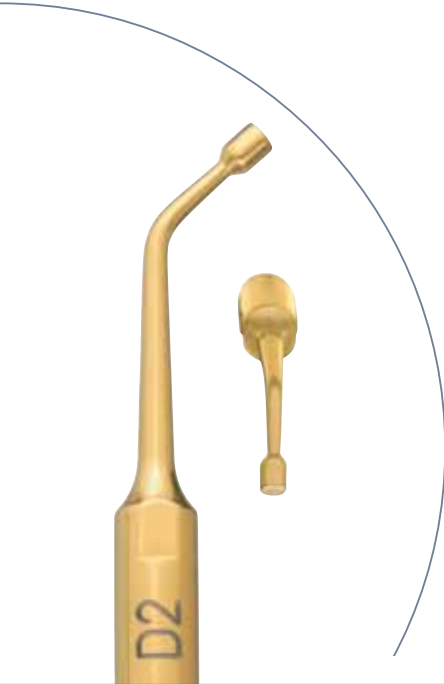
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- identification amalgam condensation
- morphology spherical tip
- surface titanium nitride coat
- treatment for amalgam condensation in class I, II and V preparations
for gold fillings burnishing
- power 0 - 100 %

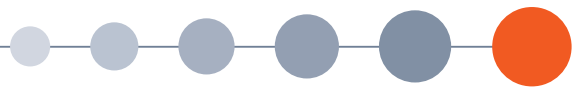
D1





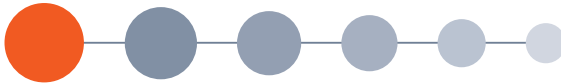
identification amalgam condensation
morphology cylindrical tip
surface titanium nitride coat
treatment for amalgam condensation in
class I, II and V preparations
for removing of crowns and bridges
power 0 - 100 %

D2



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 %

D4



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 margin	02160007
kit restorative	02160003
instrument S1	02960001
instrument S2	02960002
instrument S3	02960003
instrument S4	02960004
instrument S5	02960005
instrument S6	02960006
instrument S7	02960007
instrument S8	02960008
instrument P1	02970001

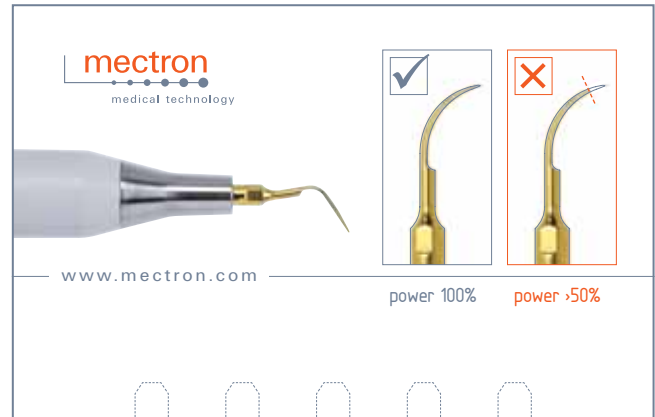
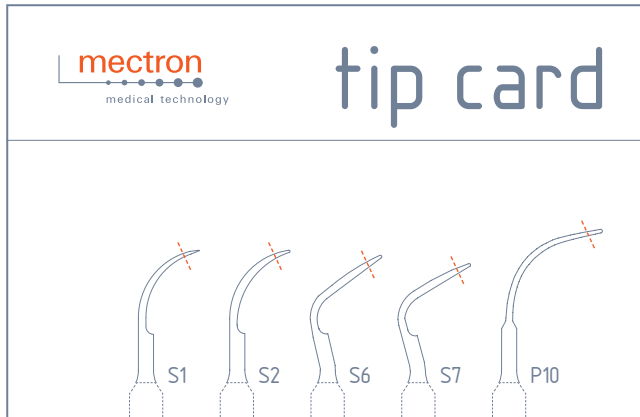
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instrument P2	02970002
instrument P3	02970003
instrument P4	02970004
instrument P10	03080001
instrument P11	03080002
instrument P12	03080003
instrument P13	03080004
instrument P14	03080005
instrument E1	02350001
instrument E2	02350002
12 x endo file, 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
instrument ER1	03450001
instrument ER2	03450002

item/reference number	
instrument ER3	03450003
instrument ER4	03450004
instrument ER5	03450005
instrument R1	03050001
instrument R2	03050002
instrument R3	03050003
instrument R4	03050004
instrument R5	03050005
instrument CM1	02190003
instrument CM2	02190004
instrument CM3	02190001
instrument CM4	02190002
instrument D1	02990001
instrument D2	02990002
instrument D3	02990003
instrument D4	02990004



reference numbers

Ultrasonic instruments wear out the same as hand instruments. Regularly check your instruments by means of the erosion tip card. Whenever your instruments are shorter than the red hatched line, their performance is 50% less the initial one. Such instruments should be quickly replaced.



mectron tip card

ultrasonic instruments

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