

mectron



→ MECTRON
ULTRASONIC INSERTS



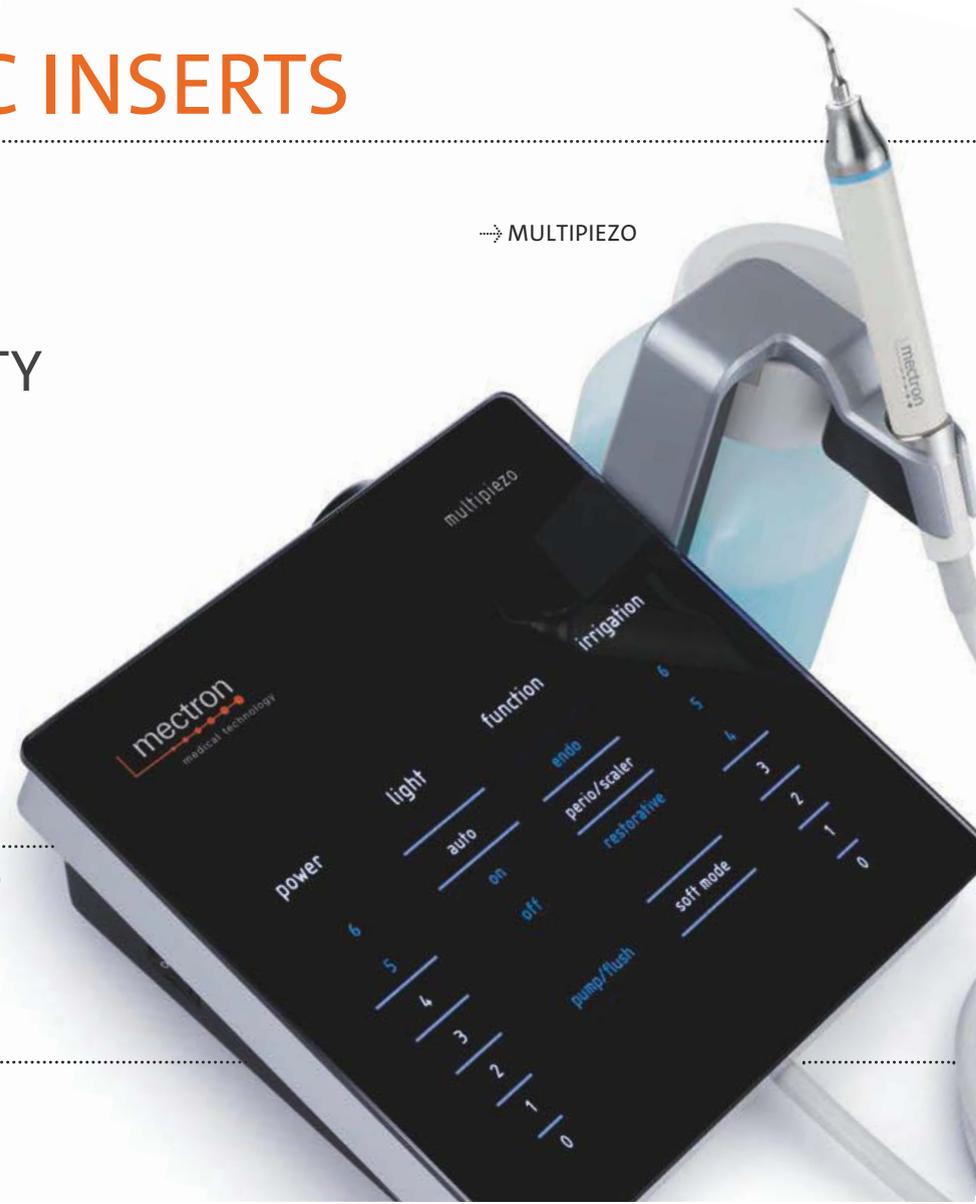
→ ULTRASONIC INSERTS

→ MULTIPIEZO

→ A LARGE VARIETY OF APPLICATIONS

Scaling, perio, endo, restorative – mectron offers a wide range of applications. mectron's high-quality technique guarantees optimal 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.



→ THE INSERTS



Mectron offers an unequalled variety of inserts – for every indication, every treatment, and every situation you will face in your daily practice. More than 30 different inserts are available.



→ TORQUE WRENCH K10



→ TORQUE WRENCH K10 – PROTECTS YOUR HANDPIECE AND INSERTS

- sterilisable
- inserts are supplied with their own dynamometric wrench





CONTENTS

→ 8-16 INSERT SETS

8/9 Set maintenance/Set scaling

10/11 Set perio maintenance/Set perio treatment

12/13 Set implant cleaning/Set endo

14 Set endo revision

→ 16-22 SCALING INSERTS

16/17 Insert S1/Insert S1-S

18/19 Insert S2/Insert S3

20/21 Insert S4/Insert S5

22 Insert S6

→ 24-27 PERIO UNIVERSAL INSERTS

24/25 Insert P1/Insert P2

26/27 Insert P3/Insert P4

→ 28-35 PERIO ANATOMIC INSERTS

28/29 Insert P10/Insert P11

30/31 Insert P12/Insert P13

32/33 Insert P14/Insert P15

34/35 Insert P16R/Insert P16L

→ 36-37 IMPLANT CLEANING INSERT

→ 38-41 ENDO INSERTS

38/39 Insert E1/Insert E2

40/41 Endo files

→ 42-47 ENDO REVISION INSERTS

43 Insert ER1

44/45 Insert ER2/Insert ER3

46/47 Insert ER4/Insert ER5

→ 48-51 ENDO RETRO INSERTS

49/50 Insert RD3/Insert RD4

51 Insert RD5

→ 52-55 EXTRACTION INSERTS

53 Insert ME1

54/55 Insert ME2/Insert ME3

→ 56-57 CROWN PREP TIPS

→ 58-61 APPROPRIATE INSERT SETTINGS

→ 62-63 REFERENCE NUMBERS/TIP CARD

→ SET MAINTENANCE

→ EQUIPPED WITH:

- 1 insert S1
- 1 insert S2
- 1 insert S5
- 1 insert P2
- 1 insert P3
- 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 P2
 - 1 insert P3
 - 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



→ ICS



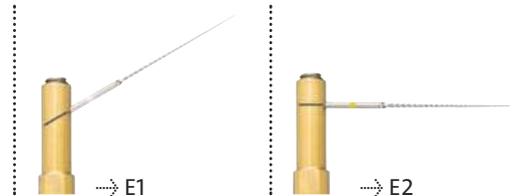
→ IC1

→ SET 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



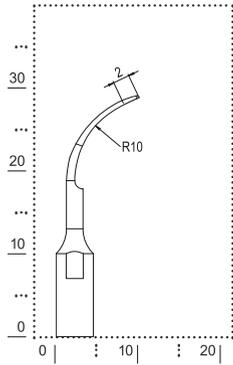
→ SET ENDO REVISION

→ EQUIPPED WITH:

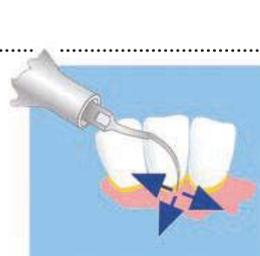
- 1 insert ER1
- 1 insert ER2
- 1 insert ER3
- 1 insert ER4
- 1 insert ER5
- 5 torque wrenches K10





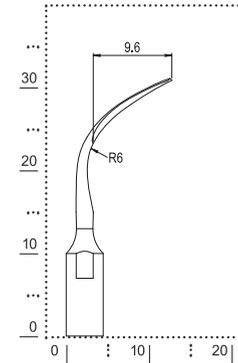


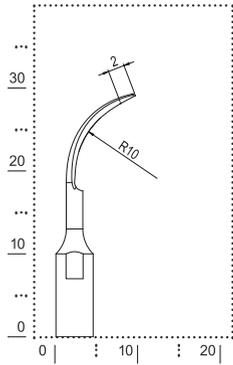
- IDENTIFICATION
scaling
- MORPHOLOGY
universal curette with semicircular diameter
- SURFACE
brightly polished medical grade stainless steel
- TREATMENT
for considerable tartar removal



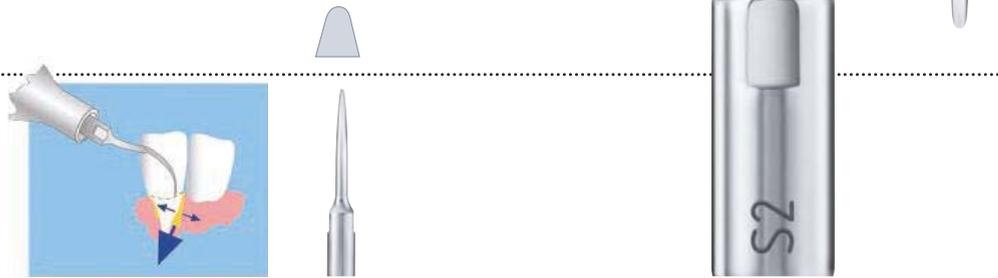


- **IDENTIFICATION**
perio/scaling
- **MORPHOLOGY**
long universal curette with triangled
slightly curved surface
- **SURFACE**
brightly polished medical grade stainless steel
- **TREATMENT**
for supragingival tartar removal
and subgingival concretions and
biofilm elimination



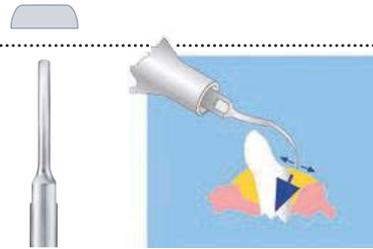
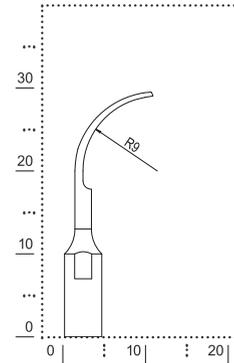


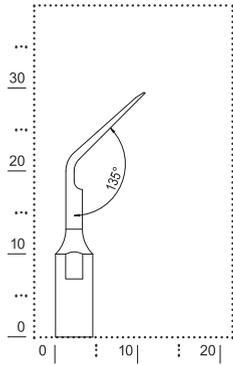
- IDENTIFICATION
scaling
- MORPHOLOGY
universal curette with triangled,
slightly curved surface
- SURFACE
brightly polished medical grade stainless steel
- TREATMENT
efficient in the interdental spaces
and posterior surfaces





- IDENTIFICATION
scaling
- MORPHOLOGY
flat, with rounded edges
- SURFACE
brightly polished medical grade stainless steel
- TREATMENT
for considerable supragingival
tartar removal





→ IDENTIFICATION

scaling

→ MORPHOLOGY

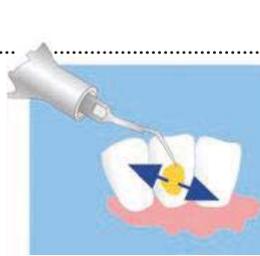
universal curette with 45° angled, triangled and slightly curved surface

→ SURFACE

brightly polished medical grade stainless steel

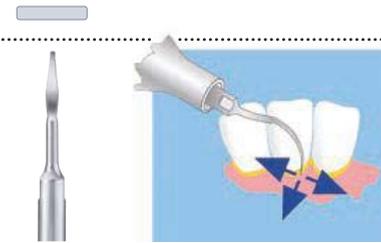
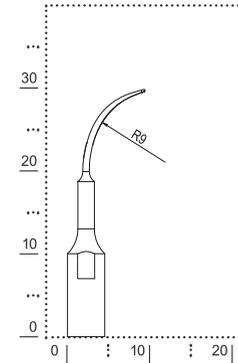
→ TREATMENT

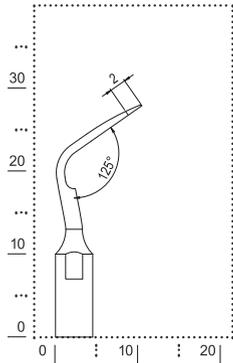
for tartar removal on mesial and distal interdental surfaces in the posterior area





- **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

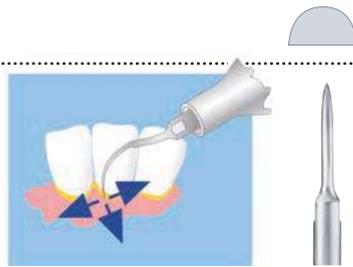
contra-angled universal curette with
semicircular diameter

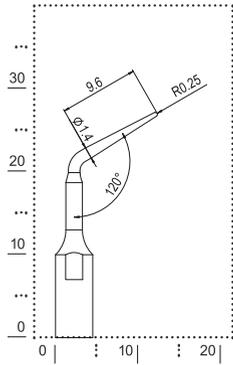
→ SURFACE

brightly polished medical grade stainless steel

→ TREATMENT

powerful insert (twice the power of S1 insert)
for considerable tartar removal





→ IDENTIFICATION

perio

→ MORPHOLOGY

long, straight working tip with a circular surface

→ SURFACE

brightly polished medical grade stainless steel

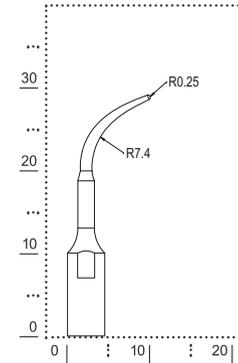
→ TREATMENT

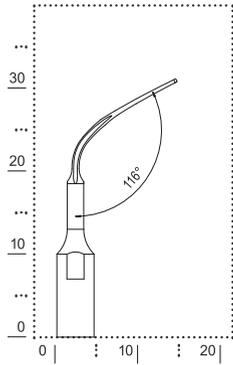
for concrements and biofilm removal from root surfaces





- IDENTIFICATION
perio
- MORPHOLOGY
curved working tip with a circular surface
- SURFACE
brightly polished medical grade stainless steel
- TREATMENT
for concretions and biofilm
removal from root surfaces





→ IDENTIFICATION

perio

→ MORPHOLOGY

slim and smooth like a probe

→ SURFACE

brightly polished medical grade stainless steel

→ TREATMENT

supra and subgingival concretions and
biofilm removal from interproximal spaces





→ IDENTIFICATION

perio

→ MORPHOLOGY

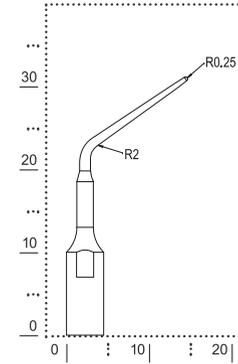
extra long, straight working tip
with a circular surface

→ SURFACE

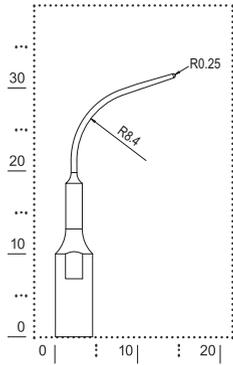
brightly polished medical grade stainless steel

→ TREATMENT

for concrements and biofilm removal
from root surfaces



→ P10



→ IDENTIFICATION

perio

→ MORPHOLOGY

extra long, curved working tip
with a circular surface

→ SURFACE

brightly polished medical grade stainless steel

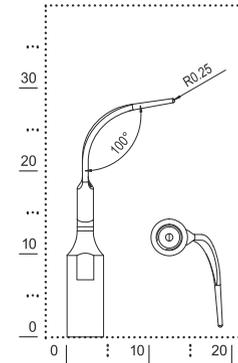
→ TREATMENT

for concrements and biofilm removal
from root surfaces

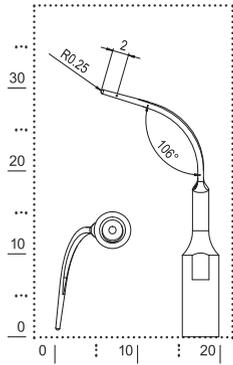




- IDENTIFICATION
perio
- MORPHOLOGY
right (inclination of 15°) curved insert
with round tip
- SURFACE
brightly polished medical grade stainless steel
- TREATMENT
for gentle subgingival concrements removal



P12



→ IDENTIFICATION

perio

→ MORPHOLOGY

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

→ SURFACE

brightly polished medical grade stainless steel

→ TREATMENT

for gentle subgingival concretions removal





→ IDENTIFICATION

perio

→ MORPHOLOGY

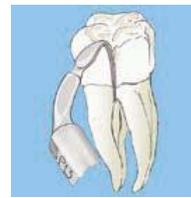
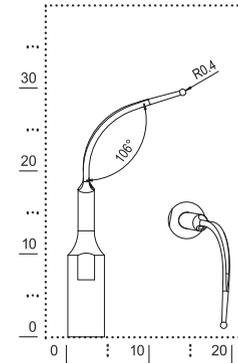
right (inclination of 15°) curved insert with spherical ($\varnothing = 0.8 \text{ mm}$) round tip

→ SURFACE

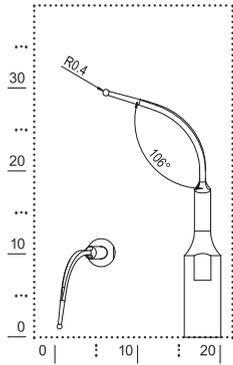
brightly polished medical grade stainless steel

→ TREATMENT

for concretions and biofilm removal in furcations and concavities



P14



→ IDENTIFICATION

perio

→ MORPHOLOGY

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

→ SURFACE

brightly polished medical grade stainless steel

→ TREATMENT

for concrements and biofilm removal
in furcations and concavities





→ IDENTIFICATION

perio

→ MORPHOLOGY

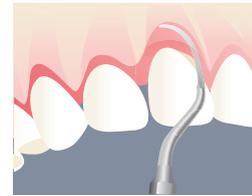
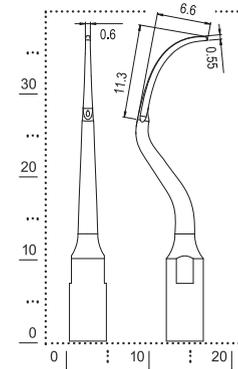
universal curette shape with round surface

→ SURFACE

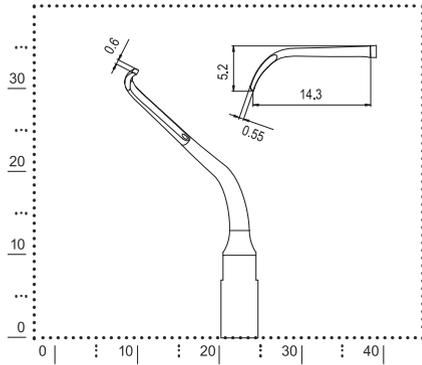
brightly polished medical grade stainless steel

→ TREATMENT

supra- and subgingival concretions and biofilm removal. Recommended for the treatment of canine and anterior teeth. Debridement of deep periodontal pockets.



→ P16R



→ IDENTIFICATION

perio

→ MORPHOLOGY

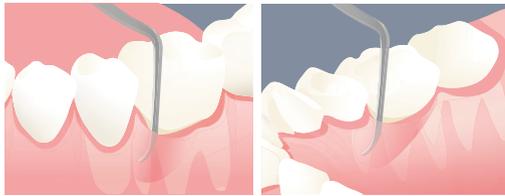
right angled periodontal curette

→ SURFACE

brightly polished medical grade stainless steel

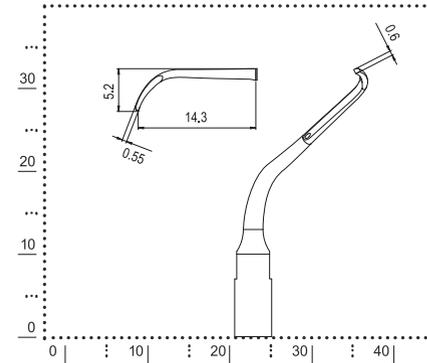
→ TREATMENT

subgingival concretions and biofilm removal from furcations and deep pockets. Recommended for the treatment of molars and premolars.





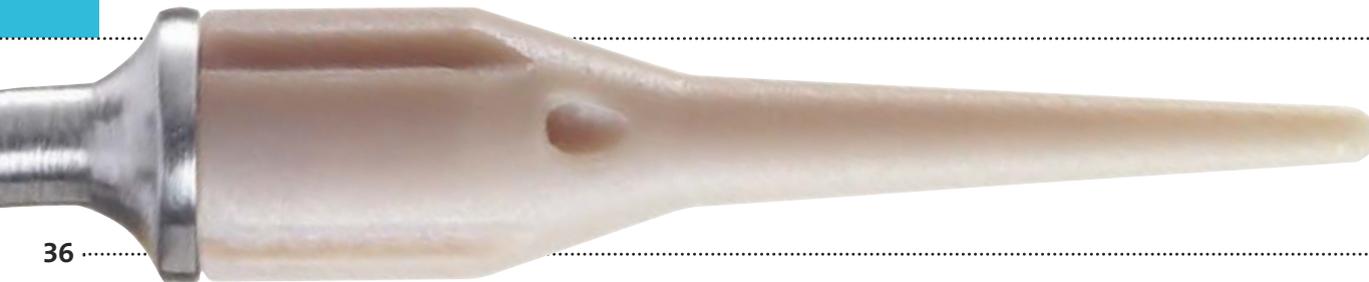
- **IDENTIFICATION**
perio
- **MORPHOLOGY**
left angled periodontal curette
- **SURFACE**
brightly polished medical grade stainless steel
- **TREATMENT**
subgingival concretions and biofilm removal from furcations and deep pockets. Recommended for the treatment of molars and premolars.



→ ICS + IC1

→ 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 SET S

The set consists
of a tipholder ICS,
1 torque wrench K10
and 5 tips IC1



→ IDENTIFICATION

perio

→ MORPHOLOGY

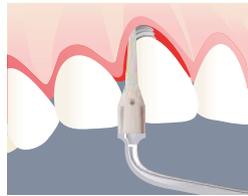
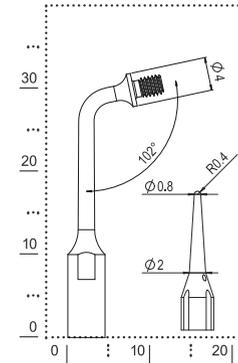
102° angled tipholder with conical PEEK tip
(working length 10 mm, \varnothing apical 0,8 mm,
 \varnothing coronal 2 mm)

→ SURFACE

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

→ TREATMENT

efficient and gentle cleaning of implants
and restorations

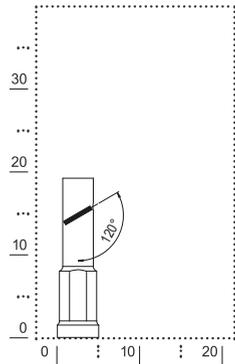


→ ICS

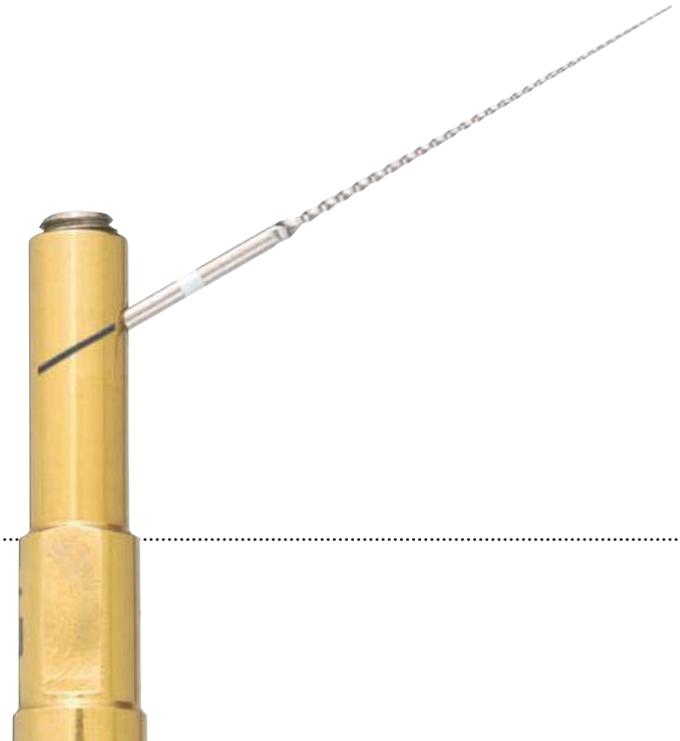


→ IC1

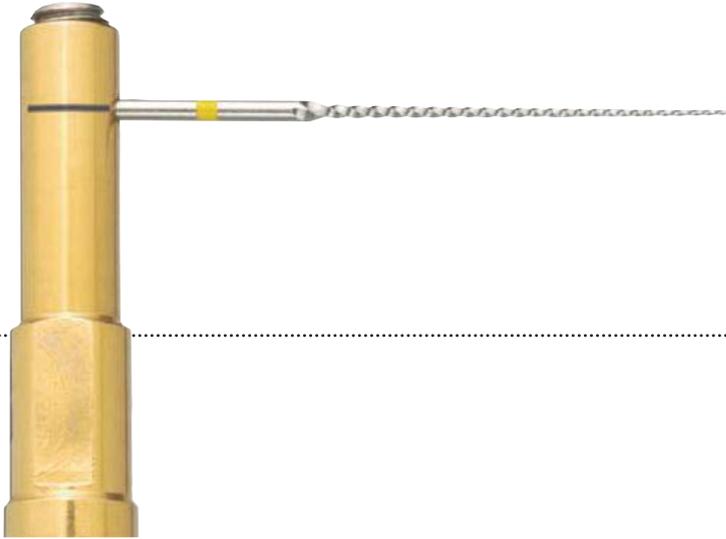
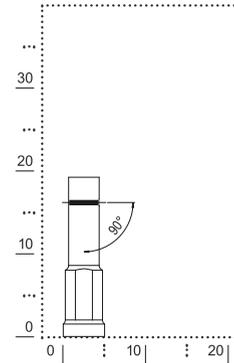
implant cleaning tip IC1
can be easily tightened
without special tools
and is fully autoclavable



- IDENTIFICATION
endo
- MORPHOLOGY
endo files holder 120°
- SURFACE
titanium nitride coat
- TREATMENT
front teeth and premolars treatment



- 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

ISO 15



ISO 20



ISO 25



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

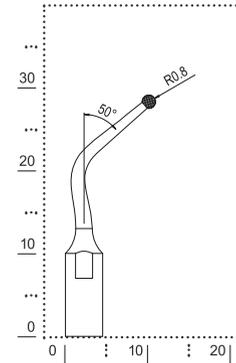
→ ENDO REVISION WITH ER INSERTS

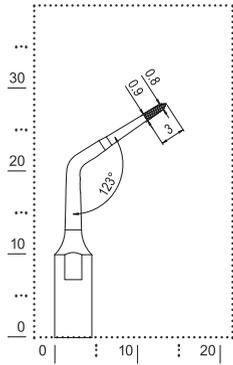
Exposure and removal of root pins, fast and effective removal of calcification in the coronal third of the root, removal of fractured root inserts – the ER inserts cover the complete spectrum of endodontic revision treatment.





- IDENTIFICATION
endo revision
- MORPHOLOGY
angled shaft with small, spherical ($\varnothing 1.7$ mm)
and D30 diamond coated tip
- SURFACE
titanium nitride coat
- TREATMENT
exposure of root canal pins





→ 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





→ **IDENTIFICATION**

endo revision

→ **MORPHOLOGY**

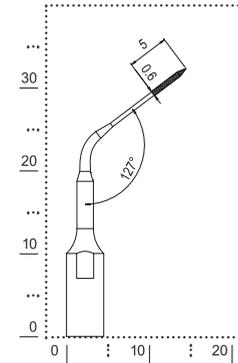
angled insert with 0.6 mm Ø, working length up to 10 mm, the last 5 mm D30 diamond coated

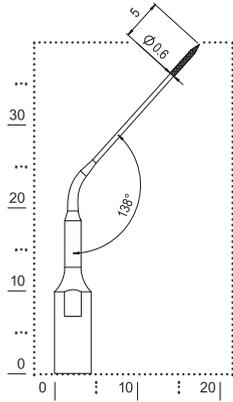
→ **SURFACE**

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 \varnothing , working length up to 20 mm, the last 5 mm D30 diamond coated

→ SURFACE

titanium nitride coat

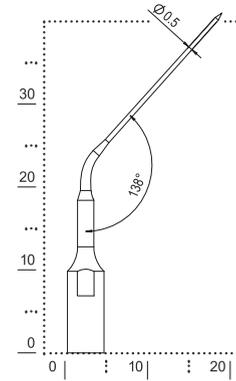
→ TREATMENT

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 \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

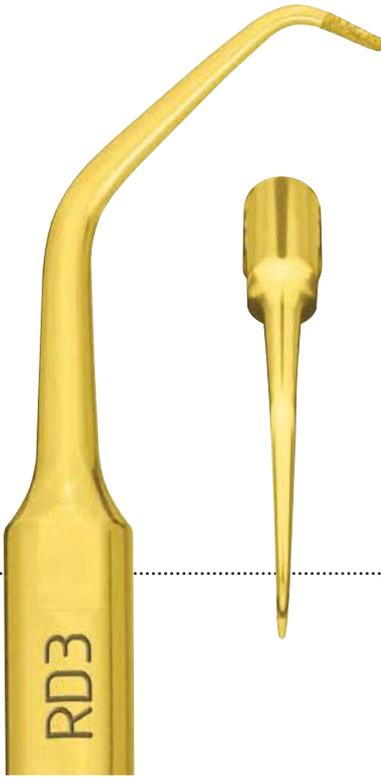


→ ENDO RETRO INSERTS – MINIMALLY INVASIVE RETROGRADE ROOT CANAL PREPARATION

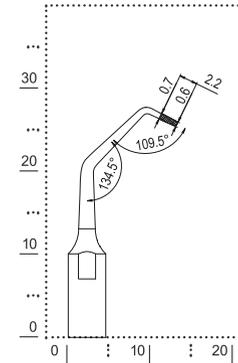
Endo retro inserts assure a satisfying solution to the root canal access issue. Their thin and 90° angled structure allows a conservative cut through a minimum wide bone window.

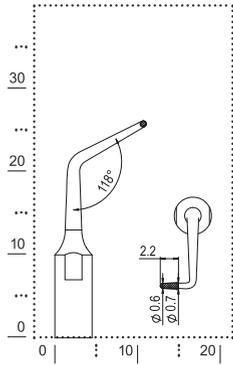
These advantages facilitate wound healing and spare the patient useless pain.





- IDENTIFICATION
endo retro
- MORPHOLOGY
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)

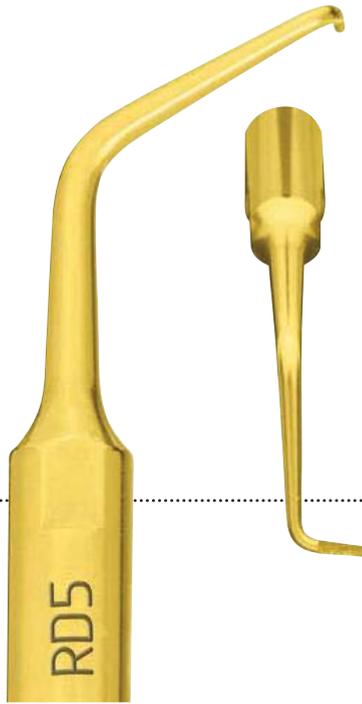
→ SURFACE

titanium nitride coat

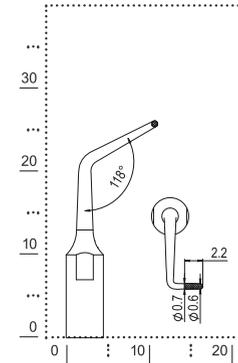
→ TREATMENT

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



→ EXTRACTION INSERTS – EXCLUSIVE FOR UNITS WITH PULSE MODE

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.

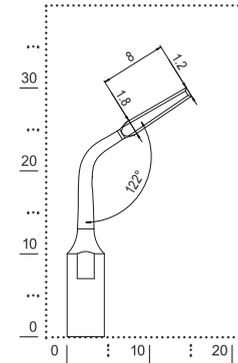
The specially shaped inserts ME1, ME2 and ME3 – with a blade thickness of only 0.35 mm – perfectly fulfill the anatomical demands of non surgical extractions. They offer maximum intra-operative sensitivity, allowing a great preservation of alveolar bone and periodontal tissues. Furthermore, the physiological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

→ EXCLUSIVE FOR UNITS WITH PULSE MODE

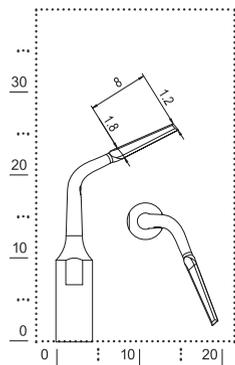
ME1*



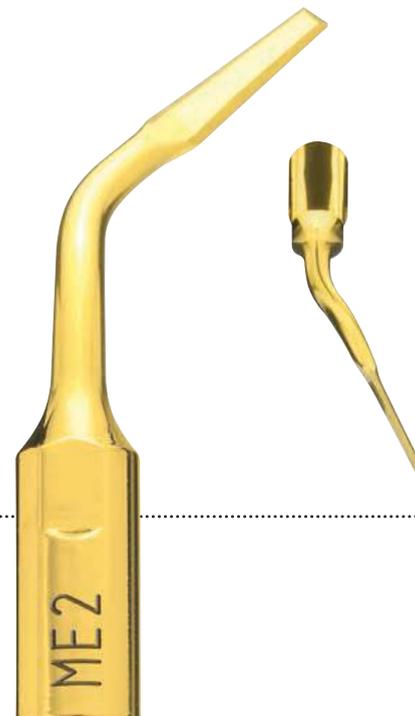
- IDENTIFICATION
extractions
- MORPHOLOGY
double-edged blade with a thickness of only 0.35 mm
- SURFACE
titanium nitride coat
- TREATMENT
atraumatic teeth removal



EXTRACTION INSERTS



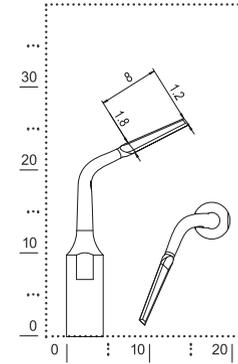
- IDENTIFICATION
extractions
- MORPHOLOGY
left angled, double-edged blade
with a thickness of only 0.35 mm
- SURFACE
titanium nitride coat
- TREATMENT
atraumatic teeth removal



→ EXCLUSIVE FOR UNITS WITH PULSE MODE



- IDENTIFICATION
extractions
- MORPHOLOGY
right angled, double-edged blade
with a thickness of only 0.35 mm
- SURFACE
titanium nitride coat
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atraumatic teeth removal



EXTRACTION INSERTS

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.



→ dynamometric wrench K7



→ key AB1



→ crown prep tip TF12D60

→ VERTICAL PREPARATION TECHNIQUE

	→ LENGTH 10 MM → DIAMOND COATING	
diameter	D90	D60
1.2 mm	TF12D90	TF12D60
1.6 mm	TF16D90	TF16D60

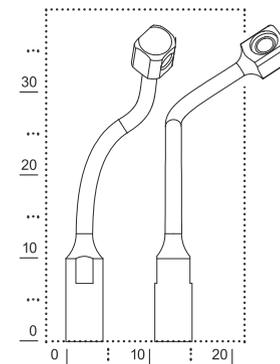


→ tip holder DB1 with crown prep tips



→ CHAMFER TECHNIQUE

	→ LENGTH 10 MM → DIAMOND COATING		
diameter	D120	D90	D60
1.2 mm		TA12D90	TA12D60
1.4 mm	TA14D120	TA14D90	TA14D60
1.6 mm	TA16D120	TA16D90	TA16D60



→ crown prep tip TA14D60





APPROPRIATE INSERT SETTINGS



function	endo	perio/scaler	restorative	endo	perio/scaler	restorative	endo	perio/scaler	prosthetics	
SCALING										
S1-S		1-2**			1-2**			1-2**		0-30%
S1, S2, S3, S4, S5, S6		1-6**			1-6**			1-3**		0-100%
PERIO										
P1, P2, P3, P4, P10, P11, P12, P13, P14		1-3**			1-3**			1-3**		0-50%
P15, P16R, P16L		1-3**			1-3**			1-3**		0-50%
IMPLANT CLEANING										
ICS + IC1		1-2**			1-2**			1-2**		0-30%
ENDO										
E1, E2	1-6			1-5			1-2**			0-10%



function	endo perio / scaler restorative	endo perio / scaler restorative	endo perio / scaler prosthetics	
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ENDO REVISION

ER1	1-6	1-5	1-3	0-100%
ER2, ER3, ER4, ER5	1-3	1-3	1-3	0-50%

ENDO RETRO

RD3, RD4, RD5	1-3	1-3	1-3	0-50%
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CROWN PREP

DB1	4-6	4-5	○**	50-100%
-----	-----	-----	-----	---------

EXTRACTION

ME1, ME2, ME3 ***	6	5		
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* These devices are not provided with a power level indicator. The percentage value indicated in the table refers to the adjustment percentage of the scale of the potentiometer supplied with the device.

** Can be used with or without „soft mode“ function.

*** Not available in the United States and in Italy market.



APPROPRIATE INSERT SETTINGS

→ MULTIPIEZO PRO / MULTIPIEZO *white**

→ MICROPIEZO S*

→ COMBI*



function	endo	perio / scaler	restorative / prosthetics	power	power
SCALING					
S1-S		1-2**		1-2	1-2
S1, S2, S3, S4, S5, S6		1-6**		1-6	1-4
PERIO					
P1, P2, P3, P4, P10, P11, P12, P13, P14		1-3**		1-3	1-2
P15, P16R, P16L		1-3**		1-3	1-3
IMPLANT CLEANING					
ICS + IC1		1-2**		1-2	1-2
ENDO					
E1, E2	1-6			1-2	1



function	endo	perio / scaler	restorative / prosthetics	power	power
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ENDO REVISION

ER1		1-6		3-6	2-4
ER2, ER3, ER4, ER5		1-3		1-3	1-2

ENDO RETRO

RD3, RD4, RD5		1-3		1-4	1-3
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CROWN PREP

DB1			4-6	4-6	3-4
-----	--	--	-----	-----	-----

EXTRACTION

ME1, ME2, ME3 ***			6		
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* Device no longer available.

** Can be used with or without „soft mode“ function.

*** Not available in the United States and in Italy market.



REFERENCE NUMBERS

→ ITEM/REFERENCE NUMBER

set maintenance	02160035-001
set scaling	02160001-001
set perio maintenance	02160006-001
set perio treatment	02160036-001
implant cleaning set S*	02160033-001
set endo	02980020-001
set endo revision	02160008-001
torque wrench K10	02900137-001
dynamometric wrench K6	02900074
wrench K1	02270003
insert S1-S	02960009-001
insert S1	02960001-001
insert S2	02960002-001
insert S3	02960003-001
insert S4	02960004-001
insert S5	02960005-001
insert S6	02960006-001
insert P1	02970001-001
insert P2	02970002-001
insert P3	02970003-001
insert P4	02970004-001
insert P10	03080001-001

→ ITEM/REFERENCE NUMBER

insert P11	03080002-001
insert P12	03080003-001
insert P13	03080004-001
insert P14	03080005-001
insert P15	03080006-001
insert P16R	03080007-001
insert P16L	03080008-001
tip holder ICS	03570004-001
tip IC1 (5 pieces)	02900112
insert E1	02350001-001
insert E2	02350002-001
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	03450001-001
insert ER2	03450002-001
insert ER3	03450003-001
insert ER4	03450004-001
insert ER5	03450005-001

→ ITEM/REFERENCE NUMBER

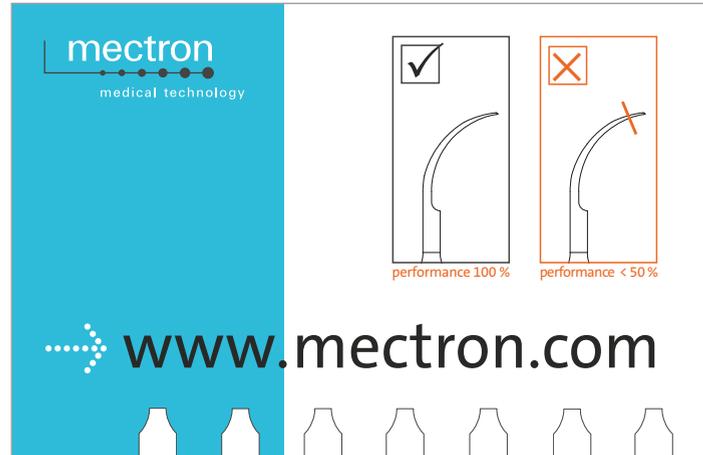
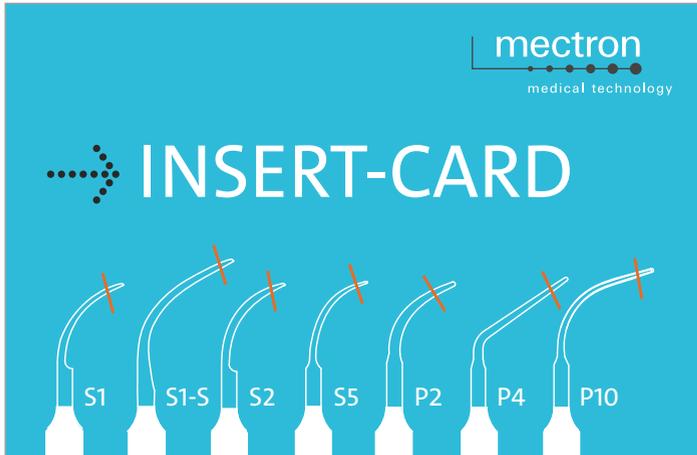
insert RD3	03050006-001
insert RD4	03050007-001
insert RD5	03050008-001
insert ME1***	03130001-001
insert ME2***	03130002-001
insert ME3***	03130003-001
crown prep set**	02160009
tip holder DB1	03570001
key AB1	03580001
dynamometric wrench K7	02900081
crown prep tip TA12D60	03590001
crown prep tip TA14D60	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
crown prep tip TF12D60	03590010
crown prep tip TF16D60	03590011
crown prep tip TF12D90	03590012
crown prep tip TF16D90	03590013

* equipped with: ICS and 5 x IC1 + K10

** equipped with: AB1, DB1 + K7

*** ME inserts are provided with K6 key

MECTRON TIP CARD



Ultrasonic inserts wear out the same as manual instruments. 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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The following products are registered under MDR 2017/745. For graphic reasons the styling of the product names might be different. The registered product names correspond as following:

• combi touch	COMBI <i>touch</i>	• COMPACT PIEZO LED	COMPACT PIEZO LED
• multipiezo	MULTIPIEZO	• COMPACT PIEZO P2K	COMPACT PIEZO P2K
• MICROPIEZO	MICROPIEZO		